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# INTERIM SEEP REMEDIATION OPERATION AND MAINTENANCE REPORT #1

## Chemours Fayetteville Works

*Prepared for*

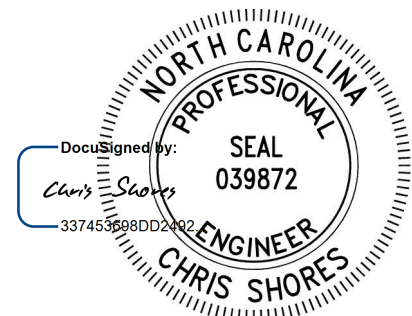
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## **EXECUTIVE SUMMARY**

On December 16, 2020 construction of the flow-through cell (FTC) at Seep C was substantially complete and startup of the system commenced. This report has been prepared to document the operations, maintenance, and performance in the first eight weeks of operation, from startup through February 28, 2021. The median flow rate processed by the FTC was 84 gallons per minute (gpm), which is above the design basis flow rate of 76 gpm (this was selected as the 95th percentile value of dry weather base flow from pre-construction data). The corresponding 95th percentile flow rate treated by the system was calculated to be 156 gpm. The system is therefore capable of capturing total base flow under favorable hydraulic conditions, and additionally captured and treated a portion of wet weather flow as well, as 11.9 inches of rain fell during the startup period (compared to a historical average of 5.4 inches). In total, the system processed approximately 6,800,000 gallons of seep flow. Composite samples from performance monitoring indicated the average PFAS removal efficiency of the captured base flow was approximately 98.7%; it is estimated that the Seep C FTC prevented approximately 7.7 pounds (lbs) of PFAS from being discharged to the Cape Fear River.



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## LIST OF ACRONYMS AND ABBREVIATIONS

%	percent
CO Addendum	Addendum to Consent Order Paragraph 12
DB	Discharge Basin
DO	Dissolved oxygen
ESB	Effluent Stilling Basin
FB1	Filter Bed-1
FB2	Filter Bed-2
FTC	flow-through cell
ft msl	feet mean sea level
GAC	granular activated carbon
gpm	gallons per minute
HDPE	high-density polyethylene
HFPO-DA	hexafluoropropylene oxide dimer
IC	Inlet Chamber
IP	Individual Permit
ISB	Influent Stilling Basin
lbs	total suspended solids
mg/L	milligrams per liter
ng/L	nanograms per liter
NTU	nephelometric turbidity units
O&M	Operation and Maintenance
OM&M	operation, maintenance, and monitoring
PFAS	per- and polyfluoroalkyl substances
PFD	rocess Flow Diagram
PFMOAA	perfluoro-2-methoxyaceticacid
PMPA	perfluoromethoxypropyl carboxylic acid
TB	Transfer Basin
TSS	total suspended solids
USGS	United States Geological Survey

## 1. INTRODUCTION

Geosyntec Consultants of NC, PC (Geosyntec) has prepared this Interim Seep Remediation Operation and Maintenance (O&M) Report #1 (“O&M Report”) on behalf of The Chemours Company FC, LLC (Chemours) to provide a bi-monthly (every two months) summary report of Operations and Maintenance for the flow-through cell (FTC) installed as the interim remediation system at Seep C at the Chemours Fayetteville Works Site (the Site). This report provides detail on the operational period from December 16, 2020 (startup) through February 28, 2021. The next O&M Report will cover the operational period from March 1 through April 30, 2021.

Pursuant to requirements of Paragraph 2(a) of the Addendum to Consent Order Paragraph 12 (CO Addendum), this interim remediation system shall intercept dry weather flow of Seep C and achieve a minimum per- and polyfluoroalkyl substances (PFAS) removal efficiency of 80 percent (%) of the intercepted flow. This will be assessed on a monthly average basis using the indicator parameters hexafluoropropylene oxide dimer (HFPO-DA), perfluoromethoxypropyl carboxylic acid (PMPA), and perfluoro-2-methoxyacetic acid (PFMOAA).

### 1.1 System Overview

As described in the August 2020 *Interim Seep Remediation System Plan* (Geosyntec, 2020), the Seep C FTC System was designed to achieve the following objectives, which are based upon Paragraph 2(a) in the CO Addendum:

- Intercept and hydraulically transmit base flow (during dry weather flow, i.e. groundwater) through the treatment media
- Remove at least 80% of PFAS indicator compounds from intercepted base flow on a monthly average basis
- Minimize base flow bypassing the FTC
- Maintain operation during higher flows (i.e., safely bypass stormwater flow without damaging the FTC)
- Minimize downtime due to clogging or fouling.

The system achieves these objectives by impounding seep flow, which generates sufficient hydraulic head to allow the base flow to enter the FTC and then percolate downward through two granular activated carbon (GAC) beds in series and remove PFAS via adsorption. Treated water is returned to the stream channel. During wet weather storm events, a spillway located to the side of the inlet weir allows for controlled bypass of elevated flows above base flow. The process flow diagram (PFD) for the system is provided in Appendix A (Drawing D-01 from the issued-for-construction design set) and is summarized as follows:

- Impounded water flows from the impoundment basin through a rectangular opening into an Inlet Chamber (IC) where the seep flow passes through a 4-ft thick gravel layer into the

Influent Stilling Basin (ISB). Flow control valves on inlet manifolds allow for distribution to one of two GAC filter beds (depending on the lead/lag duty cycle) which operate in series for improved treatment efficiency and reliability.

- Water flows via gravity through the lead GAC filter bed and percolates into underdrains at the bottom of the bed, which collect the water into a common manifold within an intermediate Transfer Basin (TB). Water then discharges into the TB from the manifold and, once it reaches a sufficient elevation, flows through pipes from the TB into the lag GAC filter bed. As with the lead GAC filter bed, water flows downward via gravity through the GAC, percolates into underdrains, collects into a common manifold in the TB, and then discharges into the Effluent Stilling Basin (ESB). Valves on the common TB manifolds direct water to be discharged into the TB or the ESB.
- Water flows over a weir from the ESB into the Discharge Basin (DB), where it exits the system into the downstream seep channel.

As shown in the PFD in Appendix A, four operational modes exist:

- i. Filter Bed-1 (FB1) as lead and Filter Bed-2 (FB2) as lag.
- ii. FB2 as lead and FB1 as lag.
- iii. FB1 operating only (during changeout of FB2 GAC).
- iv. FB2 operating only (during changeout of FB1 GAC).

## **1.2 Construction and Startup**

Substantial completion of construction was achieved at the Seep C FTC on December 16, 2020, and startup commenced thereafter. A record of construction, including as-built record drawings, will be provided in the forthcoming Seep C Interim Effectiveness Report that will be submitted to North Carolina Department of Environmental Quality. As detailed in paragraph 2(vi) of the CO Addendum, this is required within four months after construction (i.e., to be submitted no later than April 16, 2021). The Interim Effectiveness Report is required by the CO Addendum to include analysis of the second and third full calendar months of operation (i.e., February and March 2021) which extends beyond the reporting period of this Report (December 16, 2021 through February 28, 2021).

The three weirs for the System (the stop gate at the inlet, the stop gate at the overflow weir, and the downward opening weir at the ESB) did not arrive at the Site until January 22, 2021. The manufacturer, Northcoast Valve & Gate, Inc., indicated that the delay in production was due in part to moving out of their facility into a new location; a different manufacturer has been utilized for the construction at Seeps A, B, and D. The System was put in service in December without the weirs by installing solid high-density polyethylene (HDPE) plates at the location of the overflow weir, and within a portion of the aperture at the ESB/DB wall; the inlet was left fully open to receive flow from the impoundment.

Installation of the downward opening weir at the ESB/DB wall requires an operator to enter the DB, as the frame of this weir extends to the top of the slab. The DB is subject to the influence of the Cape Fear River, as the discharge pipe from the DB extends into the seep channel. Therefore, installation required a sustained period of low river level to allow for safe conditions for the operator to work inside the DB. The weir installation was initiated on January 28, 2021 after the early January flooding event receded, but flood events sustained on February 3 through 9 and again on February 15 through 28 suspended the safe completion of the work. The downward opening weir installation was able to be completed on March 9, 2021, after the flooding from February 15 through 28 receded and the DB could safely be entered. One of the purposes of this weir is to allow for a transducer in the ESB to measure the water level over the weir, which can then be used to calculate flow rate using the sharp-crested weir equation. The effect on data collection and results interpretation are discussed in subsequent sections and figures in this Report.

## **2. INSPECTIONS, OPERATION, AND MAINTENANCE**

The following sections describe the inspections, operation, and maintenance activities completed at the Seep C FTC during the current reporting period (December 16, 2020 through February 28, 2021).

### **2.1 Inspections**

Per the CO Addendum, routine inspections occurred on a weekly basis (at a minimum), and also occurred after 0.5 inch or greater rain events within a 24-hour period. An Inspection Form was filled out by operation, maintenance, and monitoring (OM&M) personnel during each inspection. Photographs taken during this report period's system inspections can be found in Appendix B.

The routine inspections included, but were not limited to:

- documenting the system duty cycle (i.e., lead/lag orientation of the GAC filter beds)
- measuring and collecting operational parameters/data, notably water elevation data that are used to evaluate influent flowrate and the occurrence (if any) of bypass
- documenting any potential observed issues, such as sediment accumulation in the impoundment basin, structural problems, GAC fouling, and debris that is impairing flow through the system
- inspecting the autosamplers
- photographing the conditions observed, including any bypass flow

A summary of the inspection and maintenance events completed during this reporting period is provided in Table 1. Further details of these events are provided in the following subsections.

### **2.2 Duty Cycling**

As described in Section 1.1, the Seep C FTC is constructed of two filter beds which operate in series. From December 16, 2020 through January 27, 2021, the FTC operated in the FB1 lead/FB2 lag configuration. The FTC remained in this configuration until January 27, 2021, when FB1 was closed to prepare for GAC changeout. Following changeout procedures, the FTC operated in the FB2 lead/FB1 lag configuration.

### **2.3 FTC Management During River Flooding**

As described in the Interim Seeps Remediation System Plan (Geosyntec, 2020), to treat total base flow of each seep, it was necessary to install the interim remedies within the regulatory floodway. The historical river elevations were referenced to develop the design elevations of key features such as the spillway and the top of the wall. Additionally, an action level was developed for autosampler removal to prevent damage to electronic components by flood waters. Based on a review of the historical record, a Huske Lock and Dam gage height of 10 feet (or approximately 38 ft above mean sea level) was selected as the action level for removing autosamplers. Review of

historical river stage data indicated that once the river level exceeded this action level, it would typically continue to rise past the level of the FTC walls.

During this reporting period (December 16, 2020 through February 28, 2021), the Cape Fear River rose above the action level on several occasions due to the extreme precipitation in the winter of 2020/2021 (Figure 1). Impacts to the composite sampling collection periods are discussed in Section 3.4.2. More details regarding the Cape Fear River flooding are also described in Section 4.5.

## **2.4 Material Changeouts**

As discussed in the Interim Seeps Remediation System Plan (Geosyntec, 2020), when breakthrough monitoring sampling indicates the concentration of PFAS in the midpoint of the system has reached 30% of the concentration of PFAS in the influent, a GAC changeout will be scheduled. On January 27, 2021, breakthrough sampling results were at the threshold level for a GAC changeout in FB1, and indicated that breakthrough was beginning to occur in FB2 as well. As a precaution, the carbon in both FB1 and FB2 was replaced on February 4 and 5, 2021.

## **2.5 Issues Encountered and Resolutions**

Shortly after the Seep C System commenced operation, observations from routine inspections noted fine-grained sediment accumulating on the surface of the filter beds, especially in the lead filter bed. Prior to construction of the FTC, the turbidity of Seep C was on average approximately 28 nephelometric turbidity units (NTU) (Geosyntec, 2020); following startup of the system, turbidity was on average 137 NTU up to a maximum recorded value of 356 NTU (Table 2). In response, regular sediment management was performed to remove the accumulated sediment and preserve the integrity of the GAC layer. The regular sediment management included:

- Utilizing a geocomposite fabric above the GAC (instead of a geotextile as originally designed) provided a stiffer surface to perform sediment management activities.
- Scrubbing geocomposite surfaces to resuspend the sediments and then pump through dewatering bags. This filtered water was returned to the impoundment so that it would re-enter the FTC and be treated.
- Vacuuming sediment off the surface of the geocomposite layers using a Matala Power Cyclone Pro II Pond Vacuum.
- Periodically replacing the geocomposite layer if it was suspected that the material could no longer effectively be cleaned.



### **3. DATA COLLECTED**

The FTC includes design components to measure water levels in the system, precipitation, water quality, and PFAS removal performance. The Huske Lock and Dam gage station is also used to reference nearby precipitation and river levels.

#### **3.1 Pressure Transducers**

The Influent Chamber (IC) and ESB are each equipped with a stilling well in which a non-vented Levelogger® is installed below the operational water level. The pressure recorded by the non-vented Leveloggers® is absolute pressure and must be adjusted for ambient barometric pressure to calculate the measured pressure due to the height of the water column above the transducer sensor. The ambient barometric pressure is measured by a Solinst Barologger® pressure transducer installed in the open air roughly 100 ft northwest of the FTC. The three pressure transducers are programmed to record pressure readings at 15-minute intervals. The water levels acquired from processing the transducer data are used to estimate flows the system processes, and to record the occurrence of flow that is diverted past the system via the Bypass Spillway. Section 4.1 describes the equations used to calculate the flowrates through the FTC based on the water levels.

The pressure transducer data were downloaded regularly as part of routine inspections (weekly at a minimum). Additionally, manual water level measurements were collected in the basins and stilling wells whenever transducers were downloaded to equilibrate the transducer readings (discussed in Section 4.1).

#### **3.2 Rainfall and River Stage**

Precipitation and river stage are monitored by using the United States Geological Survey (USGS) weather monitoring station at the W.O. Huske Dam (gauge 02105500). This station is approximately 1,200 feet from Seep C and records precipitation and river elevation data every 15 minutes.

#### **3.3 Operational and Treatment Performance Monitoring**

Operational and performance monitoring of the system includes the composite collection of water samples from various locations in the system, and direct measurement of water quality parameters. The operational and performance monitoring is completed on a regular basis to evaluate:

- PFAS removal efficiency (i.e. performance monitoring)
- breakthrough of PFAS compounds between GAC filter beds, using grab samples on an as-needed basis (i.e. breakthrough monitoring)
- water quality parameters specified in the CO Addendum
- potential effects of 0.5-inch rain events on PFAS concentrations (i.e. wet weather monitoring)

### **3.3.1 Performance Monitoring**

Composite samples for performance monitoring are collected using portable, battery-powered autosamplers (e.g. Teledyne ISCO 6712 Full-Size Portable Sampler). At the end of the sampling period, the OM&M personnel fill laboratory-supplied sample containers from the common container within the autosampler. Sampling is conducted in accordance with the PFAS Quality Assurance Project Plan (AECOM, 2018). Any adjustments made to address potential deficiencies (e.g. low battery power, river flooding) are documented on the Inspection Form.

Six performance monitoring samples – a minimum of twice per calendar month per CO Addendum Paragraph 2(a)(iii) - were collected during this reporting period (Table 3). Samples were stored on wet ice in a cooler until shipment to an external laboratory (Eurofins TestAmerica Laboratories Sacramento or Lancaster). Chain-of-custody documents were completed and included with each shipment. Performance monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020).

### **3.3.2 Breakthrough Monitoring**

Grab samples were collected from the IC, TB, and ESB for evaluation of system performance and the need for GAC changeouts. A total of 10 breakthrough monitoring samples were collected during this reporting period (an average of about one per week).

### **3.3.3 Water Quality Monitoring**

The water quality in the IC and ESB was monitored at the same minimum frequency as performance monitoring described above – at least twice per month. Dissolved oxygen (DO), pH, turbidity, specific conductivity, temperature, and total suspended solids (TSS) were measured using a calibrated In-Situ Aqua TROLL 500 multiparameter sonde.

### **3.3.4 Rain Event Monitoring**

Wet weather samples were collected at a frequency of once per calendar month following a rain of event of at least 0.5 inches within a 24 hour period. Composite samples for wet weather monitoring are collected using Teledyne ISCO 6712 Full-Size Portable Samplers (the same make and model as performance monitoring discussed above, but a dedicated set for wet weather sampling only). The wet weather autosamplers are equipped with Teledyne 674 rain gauges that measure rainfall depth. When rainfall exceeds 0.5 inches in a 24-hour period, the rain gauge sends a signal to the Teledyne 6712 to begin a sampling cycle, where the autosampler collects aliquots every hour for 24 hours. OM&M personnel fill sample containers and follow the same protocols for wet weather as described in Section 3.3.1 above.

Wet weather monitoring samples were analyzed for Table 3+ PFAS, as outlined in the *Interim Seep Remediation System Plan* (Geosyntec, 2020). Table 3 lists the three wet weather samples collected during the reporting period and the associated cumulative rainfall prior to and during the sampling timeframe.

### **3.4 Deviations**

Deviations for each of the data types collected are described below.

#### **3.4.1 Transducer Monitoring Deviations**

New transducers were purchased for the purposes of system monitoring at the Seep C FTC. On January 11, 2021, consultation with the transducer manufacturer (Solinst) technical support identified a required update for the datalogger firmware, which was completed on January 13, 2021. As a result of downtime prior to this firmware update, the transducers did not record pressure measurements from December 23 to December 30, 2020 and December 31, 2020 to January 11, 2021. As discussed in Section 1.2, the Cape Fear River flooded the FTC area for portions of this period (December 25 to 27, and January 3 through January 7), thus the actual impact to the available data set is limited.

On January 27, 2021, the transducers were removed from the stilling wells while weir installation work was initiated in the filter beds. Weir installation progressed sufficiently to allow for transducer redeployment on January 29, 2021; however, the incomplete installation and sealing of Weir 3 (at the ESB/DB wall) resulted in flow-through around the full perimeter of the weir. As such, from January 29 through February 28, water was not able to accumulate in the ESB and therefore the ESB transducer readings cannot be used to calculate flow rate in this time period. As discussed in Section 1.2, the Cape Fear River flooded the ESB/DB work area for a significant portion of this period (February 3 - 9 and February 15 - 28), thus the actual impact to the available dataset is fairly limited. See Section 4.1 for more details regarding flowrate calculations.

On February 13, 2021, the transducers were removed from the stilling wells in advance of impending Cape Fear River flooding. The transducers were reprogrammed and redeployed on February 23, 2021. For future flooding events, all transducers will remain in place.

#### **3.4.2 Performance Monitoring and Wet Weather Sampling Deviations**

During this reporting period, there were no deviations in the planned number of collected performance monitoring samples. The required performance monitoring and wet weather samples were collected. The sample collection durations of the performance monitoring composite sample varied as a result of flooding conditions.

Autosamplers were removed from the FTC following the river flooding action level procedure (Section 2.3) on several occasions, resulting in composite samples with less than the planned 336-hour (14-day) composite period. Actual collected composite periods ranged from 24-228 hours during this reporting period; dates of composite periods for each sample are listed in Table 3.

## 4. RESULTS

The results for each type of data collected are described in detail in the following subsections. A brief overview of the results is as follows:

- The reporting period was 75 days.
- Approximately 11.9 inches of rain fell over the reporting period, compared to a historical average of 5.4 inches.
- The river was above the level of the Bypass Spillway approximately 15 days (cumulative from four discrete flood events). At this level, the river is hydraulically connected to the impoundment, and there is no driving head from the impoundment to process base flow through the system.
- The system was therefore operational for 60 days.
- The system treated an estimated 6,800,000 gallons of seep flow.
- The system removed PFAS from captured base flow at an average efficiency of 98%, preventing approximately 7.7 pounds (lbs) of PFAS from discharge to the river.
- 18,000 lbs of GAC was replaced (total from both beds), 51 days into the reporting period.

### 4.1 System Flowrates and Operational Periods

#### 4.1.1 System Flowrate

Flowrates through the FTC were calculated using data acquired from the pressure transducers and the manual water level measurements (accurate to 0.01 ft) collected contemporaneously during transducer downloads (Section 3.3.1). The manual water level measurements correlate transducer pressure readings into water levels within each basin.

Some data reduction is required to filter data periods when the Cape Fear River influenced the hydraulics of the FTC:

- When the river elevation is greater than the level of the ESB/DB downward opening weir (Weir 3), the transducer readings within the ESB are no longer necessarily representative of seep base flow only; therefore, although the system is still processing some seep base flow, the transducer readings cannot be used to calculate a seep flow rate. Interpolated data is used in these instances to account for the flow rate.
- When the river elevation is greater than the level of the Bypass Spillway, the river is hydraulically connected to the impoundment, and there is no driving head to process base flow through the system; flow rates are therefore assumed to be zero in these instances.

This data reduction process is detailed in a series of figures in Appendix D. For the available data at which the Cape Fear River was below the ESB/DB weir, the flowrate of water being treated by

the FTC is calculated using a sharp-crested weir equation (specifically, the Francis weir equation [Lindeburg, 2015]):

**Equation 1, the Francis Equation:**

$$Q = \frac{2}{3} C_1 b \sqrt{2g} H^{\frac{3}{2}}$$

where,

$Q$  = the flowrate over the ESB rectangular weir (cfs);

$C_1$  = the unitless weir coefficient calculated using the Rehbock formula (Eqn. 2);

$b$  = the width of the weir (ft);

$g$  = the acceleration due to gravity (ft/s<sup>2</sup>); and

$H$  = the height of water above the weir (ft).

The weir coefficient was calculated using the Rehbock formula (Lindeburg, 2015), as follows:

**Equation 2, the Rehbock formula:**

$$C_1 = \left( 0.6035 + 0.0813 \left( \frac{H}{Y} \right) + \frac{0.000295}{Y} \right) * \left( 1 + \frac{0.00361}{H} \right)^{\frac{3}{2}}$$

where,

$C_1$  = the unitless weir coefficient;

$H$  = the height of water over the weir (ft); and

$Y$  = the height of the weir (ft).

The weir in the ESB (Weir 3) is not suppressed; that is, its length does not span the entirety of the flow channel. As such, the width of the weir,  $b_{effective}$ , was calculated as follows (Lindeburg, 2015):

**Equation 3, effective width:**

$$b_{effective} = b_{actual} - 0.1NH$$

where,

$b_{effective}$  = the effective width of Weir 3 (ft);

$b_{actual}$  = the actual width of Weir 3 (ft);

$N$  = the contraction parameter (for a weir with both sides contracted like Weir 3,  $N=2$ ); and;

$H$  = the height of water above the weir (ft).

Figure 2 shows the measurable flowrates through the FTC over the reporting period, calculated using the equations above. For instances where the system was known to be processing base flow, but transducer data were not available (Section 3.4.1), the median flowrate from the preceding or subsequent 24 hours was assigned to these time periods for calculation purposes.

The median of the measured flowrate through the FTC during the current reporting period was 84 gallons per minute (gpm), and the calculated 95<sup>th</sup> percentile value was 156 gpm. The design basis of 76 gpm (Geosyntec, 2020) was selected as the 95<sup>th</sup> percentile value of dry weather base flow from flume pre-design data. Therefore, the system is capable of treating approximately double the design basis under favorable hydraulic conditions.

Using the measured and extrapolated flowrate calculations, approximately 6,800,000 gallons of water was treated by the FTC from startup on December 16, 2020 through February 28, 2021.

#### **4.1.2 Bypass Flow**

The transducer in the ISB measures the water level entering the system, and thereby also measures the water level of the impoundment. As the as-built elevation of the Bypass Spillway has been surveyed, the ISB transducer data can therefore be used to indicate times when the spillway was engaged by bypass wet weather flow. As with the ESB transducer, some data reduction is also required for the ISB transducer, for times when the Cape Fear River elevation is above the Spillway elevation. This data reduction process is detailed in a series of figures in Appendix D.

The resulting figure for influent water level elevation, and occurrences of bypass flow, is provided in Figure 3. As shown, bypass flow was observed in several periods in January and February 2021. There were also visual observations of bypass flow on December 24 and 29, 2020 that are recorded in Table 1 but not shown in Figure 3 due to the data gap in the transducer records. These occurrences are due primarily to the extraordinarily high level of precipitation sustained throughout the reporting period (11.9 inches of rain compared to a historical average of 5.4 inches).

As discussed in Section 2.5, deposition of fine-grained sediment onto the lead filter bed geocomposite (creating a low-permeability layer) was observed to sometimes challenge the FTC system's ability to process an optimal amount of dry weather baseflow, notably in the January 17-19 period. On January 19 (as noted in Table 1), the removal of the top layer of GAC from FB2 was successful in removing this low-permeability layer; shortly after, the impoundment elevation decreased and system processing flowrate correspondingly increased (Figure 2). Sediment management techniques continue to be improved and optimized, as discussed further in Section 5.

## **4.2 Performance Monitoring Analytical Results**

Analytical results for the six composite performance monitoring samples are provided in Table 4a and described below.

Total Table 3+ PFAS compounds (17 compounds) in the influent ranged from 48,000 to 170,000 nanograms per liter (ng/L). The average and median total Table 3+ (17 compounds) concentrations were approximately 144,000 ng/L and 140,000 milligrams per liter (mg/L), respectively. The outlier minimum value of 48,000 ng/L was a 24-hour composite sample collected on February 27, 2021 and is suspected to be diluted by wet weather flow. Within each influent sample, the constituents of highest concentration were HFPO DA, PFMOAA, and PFO2HxA.

Total Table 3+ PFAS compounds (17 compounds) in the effluent ranged from 150 to 16,000 ng/L, representing a removal efficiency range of 89.3 to 99.9% in the six composite samples. Five of the six samples, however, ranged from 97.9 to 99.9%. The sample collected on January 29, 2021 (89.3% removal) coincided with breakthrough sample results which indicated that GAC in FB1 was close to saturation and needed to be replaced (the GAC in both beds was replaced on February 4 and 5, 2021 (Section 2.4)).

### 4.3 System Effectiveness

System effectiveness, defined by the percentage removal of the combined concentrations of the three indicator parameters (HFPO-DA, PFMOAA and PMPA), is determined on a monthly average basis for the system using volume weighted concentrations of the influent and effluent samples. Volume weighted concentrations were developed in the event that either the influent and effluent autosamplers have different compositing durations or that the two composite sampling periods in the month have different durations (e.g. 14 days and 10 days). Both circumstances could arise due to a potential equipment malfunction or severe weather event. Weighting by volume provides a representative assessment of mass present in both the influent and effluent over time; samples corresponding to greater flow volumes will have a proportionately higher weight. System effectiveness is calculated using Equation 4 below:

#### Equation 4: System Effectiveness

$$\begin{aligned}
 \text{System Effectiveness} &= \left( 1 - \frac{c_{eff}}{c_{inf}} \right) \times 100\% \\
 &= \left( 1 - \frac{\sum_{m=1}^M \sum_{i=1}^{i=3} c_{eff,m,i} \times w_m}{\sum_{n=1}^N \sum_{i=1}^{i=3} c_{inf,n,i} \times w_n} \right) \times 100\% \\
 &= \left( 1 - \frac{\sum_{m=1}^M \sum_{i=1}^{i=3} c_{eff,m,i} \times \frac{V_m}{\sum_{m=1}^M V_m}}{\sum_{n=1}^N \sum_{i=1}^{i=3} c_{inf,n,i} \times \frac{V_n}{\sum_{n=1}^N V_n}} \right) \times 100\%
 \end{aligned}$$

where,

$c_{eff}$  = is the volume weighted effluent concentration for a given month;

$c_{inf}$  = is the volume weighted influent concentration for a given month;

$m$  = represents an individual effluent composite sample time interval during a given month;



$M$  = is the total number of effluent composite sample time intervals during a given months (typically two, 14-day long composite samples);

$n$  = represents an individual influent composite sample time interval during a given month;

$N$  = is the total number of influent composite sample time intervals during a given month (typically two, 14-day long composite samples);

$i$  = represents the three indicator parameters HFPO-DA, PMPA, and PFMOAA.

$C_{eff,m,i}$  = is the measured concentration of the three indicator parameters for each monthly effluent composite samples<sup>1</sup>;

$C_{inf,n,i}$  = is the measured concentration of the three indicator parameters for each monthly influent composite samples<sup>1</sup>;

$w_m$  = is the effluent concentration volumetric weighting factor calculated for and applied individually to each effluent composite sample concentration;

$V_m$  = is the volume of water entering (and exiting) the FTC system during the effluent composite sample collection period<sup>2,3</sup>;

$w_n$  = is the influent concentration volumetric weighting factor calculated for and applied individually to each influent composite sample concentration; and

$V_n$  = is the volume of water entering (and exiting) the FTC system during the influent composite sample collection period<sup>2,8</sup>

Based on the system flowrate data (Section 4.1.1) and the performance monitoring composite sample data of the three indicator compounds (Section 4.2), the system effectiveness was calculated to be 98.7%. This value is similar to the Table 3+ removal efficiency described in Section 4.2 which is due to the fact that the removal efficiency was mostly steady throughout the reporting period, and that the influent and effluent composite periods were nearly identical.

#### 4.4 Wet Weather Sampling Results

Wet weather monitoring samples were collected on three occasions during the reporting period (Table 3), and their analytical results are shown in Table 4b. The removal efficiency of the Total Table 3+ compounds (17 compounds) ranged from 82.6 to 99.8%. As noted in Paragraph 2(a)(iii) in the CO Addendum, these results are not to be used to determine compliance under Paragraph 2(a)(vi).

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<sup>1</sup> Non-detect influent and effluent sample results will be assigned a value of zero for the calculation and the values from duplicate samples will be averaged together.

<sup>2</sup> A time length of 24 hours will be used to calculate influent and effluent volumes for effluent samples collected with composite sample durations less than 24 hours

<sup>3</sup> While not anticipated, sample durations of less than 24-hours may occur due to events such as the Cape Fear River inundating the flow-through cell.



#### 4.5 River Elevation and Precipitation

The Cape Fear River was monitored using the existing USGS weather monitoring station at the W.O. Huske Dam (gauge 02105500), as described in Section 3.2. Three key river elevations were monitored for their effect on system performance:

- (i) When the river rises above the top of the GAC at 38.85 feet mean sea level (ft msl), head differentials throughout the FTC are reduced and flow through the system is hindered.
- (ii) When the river rises above the invert of the Bypass Spillway at 41.28 ft msl, the influent and effluent water elevation are equal and flow through the system ceases.
- (iii) When the river rises above the top of the FTC walls at 42.35 ft msl, maintenance is required to repair any damages from flooding.

A statistical summary of the Cape Fear River elevation relative to these key elevations is provided in Table 5. The elevation of the Cape Fear River was above the GAC on six occasions during the reporting period, for a total of 25 days; above the Bypass Spillway on four occasions during the reporting period, for a total of 15 days; and above the elevation of the FTC walls and inundated the FTC on three occasions, for a total of 12 days. The changes in elevation of the Cape Fear River are shown in Figure 1.

The Cape Fear River was above the elevation of the FTC walls approximately 16% of the reporting period; historically, the river only rises above this elevation at an annual average rate of 1.7%). Similarly, the Cape Fear River was above the elevation of the Bypass Spillway 20% of the reporting period, which is greater than the historical annual average of 2.2%. Finally, the Cape Fear River was above the elevation of the GAC 33% of the reporting period, as compared to a historical annual average of 3.7%. These elevated river levels are due to extreme weather prior to and during this reporting period. In 2021, a cumulative rainfall of 11.87 inches year-to-date has been recorded. Comparatively, from 2004-2020, the historical average rainfall from January through February was 5.39 inches.

#### 4.6 Water Quality

The water quality measurements collected during reporting period are provided in Table 2 and described below.

- **DO:** There appeared to be little effect on DO, with a 2% median decrease from the influent to the effluent. The system does not use biological activity to treat influent water, therefore, DO is not expected to decrease significantly over the system's residence time. The open-air design of the system chambers is likely to maintain DO levels at near-initial conditions.
- **Temperature:** There was limited effect on temperature of the water as a result of flow through the FTC, with a 2% median decrease from the influent to the effluent. Due to the relatively short residence time in the FTC, temperature is not expected to change significantly throughout the FTC.

- **Specific Conductance:** Similar to the above parameters, there appeared to be only a minor effect on conductivity, with a median increase of 13%. The FTC is expected to have little effect on the anion/cation content of the seep baseflow.
- **pH:** From the IC to the ESB, the pH of treated water increased during every monitoring event, with a median increase of 1.3 Standard Units. This effect was anticipated and is likely a result of the inflow's contact with the concrete walls of the FTC and the GAC in the filter beds.
- **Turbidity and TSS:** Turbidity measured during field events between December 2020 and February 2021 was consistently higher than the measurement recorded prior to construction of the Seep C FTC. Whereas pre-construction turbidity was observed 28 NTU on average (Geosyntec, 2020), turbidity during this reporting period was on average 137 NTU up to a maximum recorded value of 356 NTU (Table 2). Elevated turbidity observed during the reporting period compared to previous conditions is likely a result of (1) increased runoff from higher than average rainfall (Section 4.5), and (2) additional sediment loading to Seep C as a result of erosion due to various construction activities at the Site.

The turbidity of the water in the FTC decreased between the influent and effluent during nearly every field monitoring event, with the exception of February 1, 2021. On a median basis, turbidity decreased by 97% during the reporting period. Turbidity is expected to decrease as water passes through the FTC chambers, including the roughing filter and the two GAC filter beds. The increased turbidity on February 1 is likely a result of the suspended sediments that were observed in the filter beds prior to GAC changeout on February 4 and 5, 2021. Following GAC changeout, the turbidity measured in the ESB on February 8, 2021 was 0 NTU.

During the field events from December 24 through 31, 2020, TSS decreased or stayed the same from the IC to the ESB. Similar to turbidity, TSS is anticipated to decrease as water flows through the FTC chambers, including the roughing filter and the two GAC filter beds. At field events from January 11 through February 28, 2021, TSS was observed to be 0.0 mg/L.

#### 4.7 GAC Usage

In the 75 days of this reporting period, the two GAC beds were replaced after 51 days (18,000 total lbs of material). Due to the extreme weather and relatively early phase of operation of this remedy, it is premature at this time to extrapolate a GAC usage rate from this one changeout event. Additional monitoring over the next few reporting periods will better refine a usage rate estimate, which can be used to help prepare for pending changeout events. As a precaution, due to the relatively quick breakthrough that occurred in this first reporting period, a filter bed's quantity of GAC is being stored onsite nearby Seep C for rapid changeout if required.

## 5. SUMMARY

The following summarizes the Seep C FTC's performance after the completion of the first reporting period (16 December 2020 through 2021 February 28):

- Flow data from the FTC demonstrates the system is capable of treating roughly double the design basis flow rate under favorable hydraulic conditions (i.e., the 95<sup>th</sup> percentile of measured flow was 156 gpm as compared to the estimated 95<sup>th</sup> percentile of dry weather flow value of 76 gpm). It is noted that process rates can be affected by sediment accumulating within the filter beds and river levels increasing above the discharge pipe, both of which affect the dynamic head losses through the system. Nonetheless, the system has demonstrated the ability to process total base flow, and it will likely treat at least a portion of wet weather flow for the lifetime of the system.
- Performance monitoring results from the composite samples indicate the removal efficiency, based on the Total Table 3+ 17 Compounds, ranged from 89.3 to 99.9% and on average was 98%. The System Effectiveness flow-weighted calculation yielded a similar result (98.7%). The system prevented an estimated 7.7 lbs of PFAS from being discharged to the Cape Fear River. Figure 4 illustrates the effectiveness of the FTC to reduce total concentrations of indicator parameters (HFPO-DA, PMPA, and PFMOAA), and includes data collected from February 2019 through February 2021 to show the range of baseflow concentrations prior to construction and operation of the Seep C FTC.
- Precipitation and river stage levels during this first reporting period were roughly an order of magnitude greater than historical averages. For example, during the 75 days of operation in this period, the river was above the top of wall elevation (42.35 ft msl) in three separate events for a total 12 days, or 16% of the period. Recent climate data (from 2007 – 2020) indicates that the river can typically be expected to be above this level approximately 6.2 days annually, or roughly 1.7% of the time.
- Manufacturer delays and extreme weather resulted in gaps in the available data record for flow measurement. PFAS removal performance can still be evaluated during these gaps by assigning median flow rates from other representative time periods. The downward opening weir installation was able to be completed on March 9, 2021, after the flooding from February 15 through 28 receded and the DB could safely be entered by personnel. Therefore, the next O&M report for the March-April reporting period is anticipated to include a nearly complete record of flow measurement data.
- The high level of precipitation coupled with winter surface cover conditions (i.e., disturbed earth not yet capable of supporting vegetation restoration) resulted in a sustained loading of fine-grained sediment into the impoundment throughout the first reporting period. Influent turbidity was significantly greater than pre-construction, but is expected to decrease in the next reporting period as the seeding is established over the construction area, and assuming that precipitation levels are not more than double the historical average

as they were in this first reporting period. As a precaution, enhanced sediment prevention and removal techniques have been developed to maintain a clean surface on the geocomposite layer above the GAC, which will mitigate head loss through the system and maintain optimal baseflow capture and treatment. These techniques include but may not be limited to installation of a turbidity curtain within the impoundment; installation of additional filtration fabrics with lower apparent opening size; periodic removal of sediment above the geocomposite surface; and periodic removal of the top one to two inches of GAC in situations where sediment has passed through the geocomposite.

The next reporting period (2021 March 1 through 2021 April 30) will be detailed in O&M Report #2, to be submitted no later than 2021 May 31. Additionally, the overall scope of O&M activities will continue to be evaluated, and a modification may potentially be proposed after six months of operation at all four systems, as permitted under Paragraph 2(a)(iv).

## **6. REFERENCES**

AECOM, 2018. Poly and Perfluoroalkyl Substance Quality Assurance Project Plan. August 2018.

Geosyntec, 2020. Interim Seep Remediation System Plan. Chemours Fayetteville Works. 31 August 2020.

Lindeburg, Michael R., 2015. "19 - Open Channel Flow." Environmental Engineering Reference Manual for the PE Exam, Professional Publications, Inc., pp. 19–13.

# TABLES

**Table 1**  
**Summary of Operations and Maintenance Activities**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Reporting Period	Date	Days Since Startup	Bypass Spillway Flow?	Sampling Performed			Operational Mode				Transducers Downloaded	Maintenance Activities Completed	Notes
				Breakthrough Monitoring	Performance Monitoring	Wet Weather Monitoring	Arrival		Departure				
							FB1	FB2	FB1	FB2			
Month 1	12/16/2020	0	No				Lead	Lag	Lead	Lag		N/A	Seep C System startup.
	12/23/2020	8	No	X			Lead	Lag	Lead	Lag		N/A	FB1 temporarily turned off due to maintenance needed for sediment accumulation.
	12/24/2020	9	Yes			X	Lead	Lag	Lead	Lag		N/A	Autosamplers removed on this date.
	12/29/2020	14	Yes				Lead	Lead	Lead	Lag		FB1 sediment management. Geocomposite cleaned and upper layer of GAC removed.	Flow over spillway stopped following FB maintenance.
	12/30/2020	15	No	X	X		Lead	Lag	Lead	Lag	X	N/A	
	12/31/2020	16	No	X	X		Lead	Lag	Lead	Lag		N/A	
	01/11/2021	27	Yes	X			Lead	Lag	Lead	Lag	X	Filter beds pumped down to inspect geocomposite following flood events.	
	01/12/2021	28	Yes				Lead	Lag	Lead	Lag		Filter beds were pumped down and geocomposite was cleaned to remove sediment.	
	01/13/2021	29	--				--	--	--	--	X	No Inspection Recorded	
	01/18/2021	34	Yes		X		Lead	Lag	Lead	Lag		N/A	
	01/19/2021	35	Yes	X			Lead	Lag	Lead	Lag		Both filter beds pumped down and geocomposite was replaced. 1/2" of GAC was removed from FB2. ESB was cleaned - sediment was removed that was deposited during flooding.	
	01/25/2021	41	Yes	X			Lead	Lag	Lead	Lag		N/A	
	01/26/2021	42	Yes			X	Lead	Lag	Lead	Lag		N/A	
	01/27/2021	43	Yes				Lead	Lag	Changeout	Lead	X	N/A	Closed FB1 to prepare for weir installation.
	01/28/2021	44	Not Recorded				Changeout	Lag	Changeout	Lag		Weir Installation Initiated (W2 and W3)	
01/29/2021	45	Yes		X		Changeout	Lead	Changeout	Lead		Weir Installation Initiated (W2 and W3)		
Month 2	02/01/2021	48	No	X			Changeout	Lead	Changeout	Lead	X	N/A	Observed potential preferential pathway in FB2.
	02/04/2021	51	Yes				Changeout	Changeout	Lag	Lead		Carbon change out of FB1 and FB2	Autosamplers removed ahead of projected flooding.
	02/08/2021	55	Yes	X			Lag	Lead	Lag	Lead		N/A	Water elevation higher in lead filter bed. Likely clogging of filter bed.
	02/11/2021	58	Yes				Lag	Lead	Lag	Lead		Sediment removed from lead FB	
	02/13/2021	60	Yes	X	X	X	Lag	Lead	Lag	Lead	X	N/A	Water elevation higher in lead filter bed. Likely clogging of filter bed. Transducers and autosamplers removed ahead of projected flooding.
	02/23/2021	70	Yes				Lag	Lead	Lag	Lead		Geocomposites removed in both filter beds	
	02/26/2021	73	Yes	X			Lag	Lead	Lag	Lead		Removed sediment from lead FB using a brush/vacuum combination	Noted improved flow following maintenance
	02/28/2021	75	Yes		X		Lag	Lead	Lag	Lead		N/A	Visit was to collect performance samples and remove autosamplers before potential flooding

**Table 2**  
**Water Quality Data**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Report Period	Date	DO (mg/L)			pH (SU)			Specific Conductance (uS/cm)			Temperature (°C)			Turbidity (NTU)			TSS (mg/L)		
		Influent	Effluent	Percent Difference	Influent	Effluent	Percent Difference	Influent	Effluent	Percent Difference	Influent	Effluent	Percent Difference	Influent	Effluent	Percent Difference	Influent	Effluent	Percent Difference
Report #1	12/24/2020	7.5	7.7	3%	8.4	8.4	0%	1,504	276	-82%	18	18	0%	143	19	-87%	0.96	0.18	-81%
	12/30/2020	5.6	7.0	23%	7.0	8.6	22%	101	107	6%	8.1	8.0	0%	155	113	-27%	0.07	0.07	0%
	12/31/2020	0.63	3.4	437%	7.9	8.8	12%	1,119	223	-80%	13	11	-14%	46	0	-100%	0.73	0.14	-81%
	1/11/2021	7.1	5.7	-20%	5.9	8.8	50%	78	121	55%	9.5	11	16%	134	76	-44%	0.0	0.0	0%
	1/25/2021	2.9	0.73	-75%	7.4	8.5	15%	339	2,019	495%	9.5	9.9	5%	3.7	0	-100%	0.0	0.0	0%
	1/29/2021	10	9.6	-4%	6.1	6.4	4%	65	43	-33%	8.2	8.2	0%	356	288	-19%	NM	NM	--
	2/1/2021	8.4	8.4	-1%	5.4	6.7	24%	71	76	7%	11	12	4%	189	263	39%	0.0	0.0	0%
	2/8/2021	7.1	0.41	-94%	7.2	9.1	27%	117	926	695%	14	13	-4%	122	0	-100%	0.0	0.0	0%
	2/13/2021	8.9	7.3	-18%	7.3	8.3	14%	110	124	13%	8.1	9.0	12%	113	4.0	-96%	0.0	0.0	0%
	2/26/2021	7.4	7.5	0%	7.0	8.9	27%	93	344	272%	15	15	0%	129	0	-100%	NM	NM	--
2/28/2021	8.0	8.2	2%	7.4	7.7	4%	148	86	-42%	16	16	-3%	118	0	-100%	0.0	0.0	0%	
	<i>Average</i>	6.7	6.0	-11%	7.0	8.2	17%	340	395	16%	11.9	11.9	0%	137	69	-49%	0.2	0.0	-78%
	<i>Median</i>	7.4	7.3	-2%	7.2	8.5	19%	110	124	13%	11.3	11.0	-2%	129	4	-97%	0.0	0.0	0%

*Notes:*  
 DO dissolved oxygen  
 mg/L milligram per liter  
 SU standard units  
 NTU nephelometric turbidity units  
 uS/cm milliSiemens per centimeter  
 TSS total suspended solids  
 NM Not Measured



**Table 3**  
**Sampling Summary**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, North Carolina

Performance Monitoring Composite Samples	Sample ID	Composite Period	Sample Date
	SEEP-C-INFLUENT-114-123020 SEEP-C-EFFLUENT-114-123020	December 17-18, 21-24, and 29-30, 2020 <sup>[1]</sup>	December 30, 2020
	SEEP-C-INFLUENT-24-123120 SEEP-C-EFFLUENT-24-123120	December 30-31, 2020	December 31, 2020
	SEEP-C-INFLUENT-138-011821 SEEP-C-EFFLUENT-138-011821	January 12-18, 2021 <sup>[1]</sup>	January 18, 2021
	SEEP-C-INFLUENT-228-012921 SEEP-C-EFFLUENT-216-012921	January 18-29, 2021	January 29, 2021
	SEEP-C-INFLUENT-192-021321 SEEP-C-EFFLUENT-192-021321	February 5-13, 2021 <sup>[1]</sup>	February 13, 2021
	SEEP-C-Influent-24-022721 SEEP-C-Effluent-24-022721	February 24-27, 2021 <sup>[1]</sup>	February 27, 2021

Wet Weather Composite Samples	Sample ID	Sample Date	Sample Time	Cumulative Rainfall (inches)
	SEEP-C-RAIN-INFLUENT-4-122420 SEEP-C-RAIN-EFFLUENT-4-122420	December 24, 2020	15:22	1.02
	SEEP-C-RAIN-INFLUENT-24-012621 SEEP-C-RAIN-EFFLUENT-24-012621	January 26, 2021	11:35	0.81
	SEEP-C-RAIN-INFLUENT-24-021321 SEEP-C-RAIN-EFFLUENT-24-021321	February 13, 2021	10:00	1.28

## Notes

- 1 Discontinuities in sample composite period due to removal of autosamplers during river flooding events.
- 2 Sample Identification Label Key: "Seep - [A, B, C, or D] - [Sample Location Inside FTC] - [# of Aliquots in Composite Sample] - [MMDDYY]"

**Table 4a**  
**Summary of Performance Monitoring Analytical Results**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-C-INFLUENT-114-123020 Sample Date: 30-Dec-20	SEEP-C-EFFLUENT-114-123020 Sample Date: 30-Dec-20	Percent Removal Composite Period: December 17-18, 21-24, and 29-30, 2020	SEEP-C-INFLUENT-24-123120 Sample Date: 31-Dec-20	SEEP-C-EFFLUENT-24-123120 Sample Date: 31-Dec-20	Percent Removal Composite Period: December 30-31, 2020	SEEP-C-INFLUENT-138-011821 Sample Date: 18-Jan-21	SEEP-C-EFFLUENT-138-011821 Sample Date: 18-Jan-21	Percent Removal Composite Period: January 12-18, 2021
Hfpo Dimer Acid	19,000	<81	100%	19,000	<81	100%	14,000	17	99.9%
PFMOAA	96,000	<80	100%	74,000	<80	100%	64,000	110	99.8%
PFO2HxA	27,000	<27	100%	23,000	130 J	99%	21,000	19	99.9%
PFO3OA	7,600	<39	100%	7,000	<39	100%	6,400	5.1	99.9%
PFO4DA	2,000	<59	100%	2,400	<59	100%	2,900	<2	100%
PFO5DA	<78	<78	100%	<78	<78	100%	<78	<2	100%
PMPA	9,700	640	93.4%	8,900	<620	100%	8,300	<20	100%
PEPA	3,000	<16	100%	2,900	<16	100%	3,200	<10	100%
PS Acid	<20	<20	100%	64	75	-17%	<20	<2	100%
Hydro-PS Acid	370	<6.1	100%	340	<6.1	100%	390	<2	100%
R-PSDA	1,000	<71	100%	820 J	<71	100%	500	<2	100%
Hydrolyzed PSDA	1,300	<38	100%	1,200 J	<38	100%	590	<2	100%
R-PSDCA	17	<17	100%	<17	<17	100%	24	<2	100%
NVHOS	850	<15	100%	770	<15	100%	750	<2	100%
EVE Acid	<17	<17	100%	<17	<17	100%	<17	<2	100%
Hydro-EVE Acid	1,500	<14	100%	1,300	<14	100%	1,300	<2	100%
R-EVE	970	<72	100%	900	<72	100%	740	<2	100%
PES	<6.7	<6.7	100%	<6.7	<6.7	100%	<6.7	<2	100%
PFECA B	<27	<27	100%	<27	<27	100%	<27	<2	100%
PFECA-G	<48	<48	100%	<48	<48	100%	<48	<2	100%
<b>Total Table 3+ (17 Compounds)</b>	<b>170,000</b>	<b>640</b>	<b>99.6%</b>	<b>140,000</b>	<b>210</b>	<b>99.9%</b>	<b>120,000</b>	<b>150</b>	<b>99.9%</b>
<b>Total Table 3+ (20 Compounds)</b>	<b>170,000</b>	<b>640</b>	<b>99.6%</b>	<b>140,000</b>	<b>210</b>	<b>99.9%</b>	<b>120,000</b>	<b>150</b>	<b>99.9%</b>

**Notes:**

The three Table 3+ compounds that are not included in the list of 17, but are included in the list of 20, are R-PSDA, R-EVE, and Hydrolyzed PSDA.

**Bold** - Analyte detected above associated reporting limit

EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

-- - No data reported

< - Analyte not detected above associated reporting limit.

Sample Identification Label Key: "Seep - [A, B, C, or D] -

[Sample Location Inside FTC] - [# of Aliquots in Composite

Sample] - [MMDDYY]"

**Table 4a**  
**Summary of Performance Monitoring Analytical Results**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-C-INFLUENT-228-012921	SEEP-C-EFFLUENT-216-012921	Percent Removal	SEEP-C-INFLUENT-192-021321	SEEP-C-EFFLUENT-192-021321	Percent Removal	SEEP-C-INFLUENT-24-022721	SEEP-C-EFFLUENT-24-022721	Percent Removal
	Sample Date: 01/29/2021	Sample Date: 01/29/2021	Composite Period: January 18-29, 2021	Sample Date: 02/13/2021	Sample Date: 02/13/2021	Composite Period: February 5-13, 2021	Sample Date: 02/27/2021	Sample Date: 02/27/2021	Composite Period: February 24-27, 2021
Hfpo Dimer Acid	<b>18,000</b>	<b>2,100</b>	88.3%	<b>15,000</b>	<b>59</b>	99.6%	<b>5,600</b>	< 81	100%
PFMOAA	<b>84,000</b>	<b>8,500</b>	89.9%	<b>71,000</b>	<b>300</b>	99.6%	<b>23,000</b>	<b>280</b>	98.8%
PFO2HxA	<b>24,000</b>	<b>2,400</b>	90.0%	<b>25,000</b>	<b>65</b>	99.7%	<b>8,400</b>	<b>83</b>	99.0%
PFO3OA	<b>5,700</b>	<b>580</b>	89.8%	<b>7,100</b>	<b>31</b>	99.6%	<b>3,000</b>	< 39	100%
PFO4DA	<b>2,500</b>	<b>270</b>	89.2%	<b>2,900</b>	<b>12</b>	99.6%	<b>820</b>	< 59	100%
PFO5DA	<78	<7.8	100%	<b>81</b>	<2	100%	< 78	< 78	100%
PMPA	<b>8,700</b>	<b>920</b>	89.4%	<b>7,700</b>	<b>59</b>	99.2%	<b>3,800</b>	<b>660</b>	82.6%
PEPA	<b>2,500</b>	<b>260</b>	89.6%	<b>3,000</b>	<20	100%	<b>1,200</b>	< 20	100%
PS Acid	<20	<2	100%	<9.8	<2	100%	< 20	< 20	100%
Hydro-PS Acid	<b>300</b>	<b>36</b>	88.0%	<b>330</b>	<2	100%	<b>150</b>	< 6.1	100%
R-PSDA	<b>790</b>	<b>91</b>	88.5%	<b>850</b>	<b>4.6</b>	99.5%	<b>380</b>	< 71	100%
Hydrolyzed PSDA	<b>1,300</b>	<b>180</b>	86.2%	<b>1,000</b>	<b>4.3</b>	99.6%	<b>630</b>	< 38	100%
R-PSDCA	<17	<2	100%	<b>16</b>	<2	100%	< 17	< 17	100%
NVHOS	<b>650</b>	<b>63</b>	90.3%	<b>680</b>	<b>2.3</b>	99.7%	<b>260</b>	< 15	100%
EVE Acid	<17	<2	100%	<8.7	<2	100%	<b>65</b>	< 17	100%
Hydro-EVE Acid	<b>1,200</b>	<b>140</b>	88.3%	<b>1,100</b>	<b>3.3</b>	99.7%	<b>380</b>	< 14	100%
R-EVE	<b>820</b>	<b>100</b>	87.8%	<b>770</b>	<b>3.3</b>	99.6%	<b>370</b>	< 72	100%
PES	<6.7	<2	100%	<b>4.4</b>	<2	100%	< 6.7	< 6.7	100%
PFECA B	<27	<2.7	100%	<13	<2	100%	< 27	< 27	100%
PFECA-G	<48	<4.8	100%	<24	<2	100%	< 48	< 48	100%
<b>Total Table 3+ (17 Compounds)</b>	<b>150,000</b>	<b>15,000</b>	<b>90.0%</b>	<b>130,000</b>	<b>530</b>	<b>99.6%</b>	<b>48,055</b>	<b>1,023</b>	<b>97.9%</b>
<b>Total Table 3+ (20 Compounds)</b>	<b>150,000</b>	<b>16,000</b>	<b>89.3%</b>	<b>140,000</b>	<b>540</b>	<b>99.6%</b>	<b>48,055</b>	<b>1,023</b>	<b>97.9%</b>

**Notes:**

The three Table 3+ compounds that are not included in the list of 17, but are included in the list of 20, are R-PSDA, R-EVE, and Hydrolyzed PSDA.

**Bold** - Analyte detected above associated reporting limit

EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

-- - No data reported

< - Analyte not detected above associated reporting limit.

Sample Identification Label Key: "Seep - [A, B, C, or D] -

[Sample Location Inside FTC] - [# of Aliquotes in Composite Sample] - [MMDDYY]"

**Table 4b**  
**Summary of Wet Weather Analytical Results**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

<i>Table 3+ SOP (ng/L)</i>	SEEP-C-RAIN- INFLUENT-4-122420 Sample Date: 24-Dec-20	SEEP-C-RAIN- EFF_BYPSS-4-122420 Sample Date: 24-Dec-20	Percent Removal Composite Period: December 24, 2020	SEEP-C-RAIN- INFLUENT-24-012621 Sample Date: 26-Jan-21	SEEP-C-RAIN- EFFLUENT-24-012621 Sample Date: 26-Jan-21	Percent Removal Composite Period: January 26, 2021	SEEP-C-RAIN- INFLUENT-24-021321 Sample Date: 13-Feb-21	SEEP-C-RAIN- EFFLUENT-24-021321 Sample Date: 13-Feb-21	Percent Removal Composite Period: February 13, 2021
Hfpo Dimer Acid	20,000	3,600	82.0%	23,000	210	99.1%	13,000	24	99.8%
PFMOAA	110,000	19,000	82.7%	80,000	740	99.1%	69,000	190	99.7%
PFO2HxA	31,000	5,500	82.3%	26,000	230	99.1%	25,000	39	99.8%
PFO3OA	8,000	1,500	81.3%	8,200	66	99.2%	6,800	12	99.8%
PFO4DA	2,900	430	85.2%	3,100	26	99.2%	3,000	4	99.9%
PFO5DA	<78	<78	100.0%	<78	<2	100.0%	83	<2	100.0%
PMPA	9,500	1,700	82.1%	9,500	94	99.0%	7,300	31	99.6%
PEPA	3,100	560	81.9%	3,900	34	99.1%	2,800	<20	100.0%
PS Acid	<20	<20	100.0%	<20	<2	100.0%	<9.8	<2	100.0%
Hydro-PS Acid	460	65	85.9%	440	4.8	98.9%	340	<2	100.0%
R-PSDA	1,000	170	83.0%	560	5	99.0%	810	<2	100.0%
Hydrolyzed PSDA	1,500	280	81.3%	740	10	98.7%	1,000	<2	100.0%
R-PSDCA	17	<17	100.0%	25	<2	100.0%	14	<2	100.0%
NVHOS	980	170	82.7%	930	8	99.1%	670	<2	100.0%
EVE Acid	<17	<17	100.0%	<17	<2	100.0%	<8.7	<2	100.0%
Hydro-EVE Acid	1,600	280	82.5%	1,500	15	99.0%	1,100	<2	100.0%
R-EVE	1100	210	80.9%	780	7.6	99.0%	770	<2	100.0%
PES	7	<6.7	100.0%	<6.7	<2	100.0%	4	<2	100.0%
PFECA B	<27	<27	100.0%	<27	<2	100.0%	<13	<2	100.0%
PFECA-G	<48	<48	100.0%	<48	<2	100.0%	<24	<2	100.0%
<b>Total Table 3+ (17 Compounds)</b>	<b>190,000</b>	<b>33,000</b>	<b>82.6%</b>	<b>160,000</b>	<b>1,400</b>	<b>99.1%</b>	<b>130,000</b>	<b>300</b>	<b>99.8%</b>
<b>Total Table 3+ (20 Compounds)</b>	<b>190,000</b>	<b>33,000</b>	<b>82.6%</b>	<b>160,000</b>	<b>1,500</b>	<b>99.1%</b>	<b>130,000</b>	<b>300</b>	<b>99.8%</b>

**Notes:**

The three Table 3+ compounds that are not included in the list of 17, but are included in the list of 20, are R-PSDA, R-EVE, and Hydrolyzed PSDA.

**Bold** - Analyte detected above associated reporting limit

EPA - Environmental Protection Agency

J - Analyte detected. Reported value may not be accurate or precise

ng/L - nanograms per liter

QA/QC - Quality assurance/ quality control

SOP - standard operating procedure

UJ - Analyte not detected. Reporting limit may not be accurate or precise.

-- - No data reported

< - Analyte not detected above associated reporting limit.

Sample Identification Label Key: "Seep - [A, B, C, or D] -

[Sample Location Inside FTC] - [# of Aliquots in Composite

Sample] - [MMDDYY]"

**Table 5**  
**Cape Fear River Elevation and Local Precipitation Statistics**  
**Reporting Period 1 (Dec 2020 - Feb 2021)**  
 Chemours Fayetteville Works  
 Fayetteville, NC

	# of Days of Operation on Record	River Above Wall Elevation		River Above Spillway Elevation		River Above GAC Elevation		River Above Discharge Pipe	
		Percent of Operational Period	Number of Days	Percent of Operational Period	Number of Days	Percent of Operational Period	Number of Days	Percent of Operational Period	Number of Days
<b>Current</b>	75	16%	12.0	20%	15.0	33%	24.8	72%	54.2
<b>Historically (2007-2020)</b>	N/A	1.7%	6.2	2.2%	8.0	3.7%	13.5	9.6%	35.0

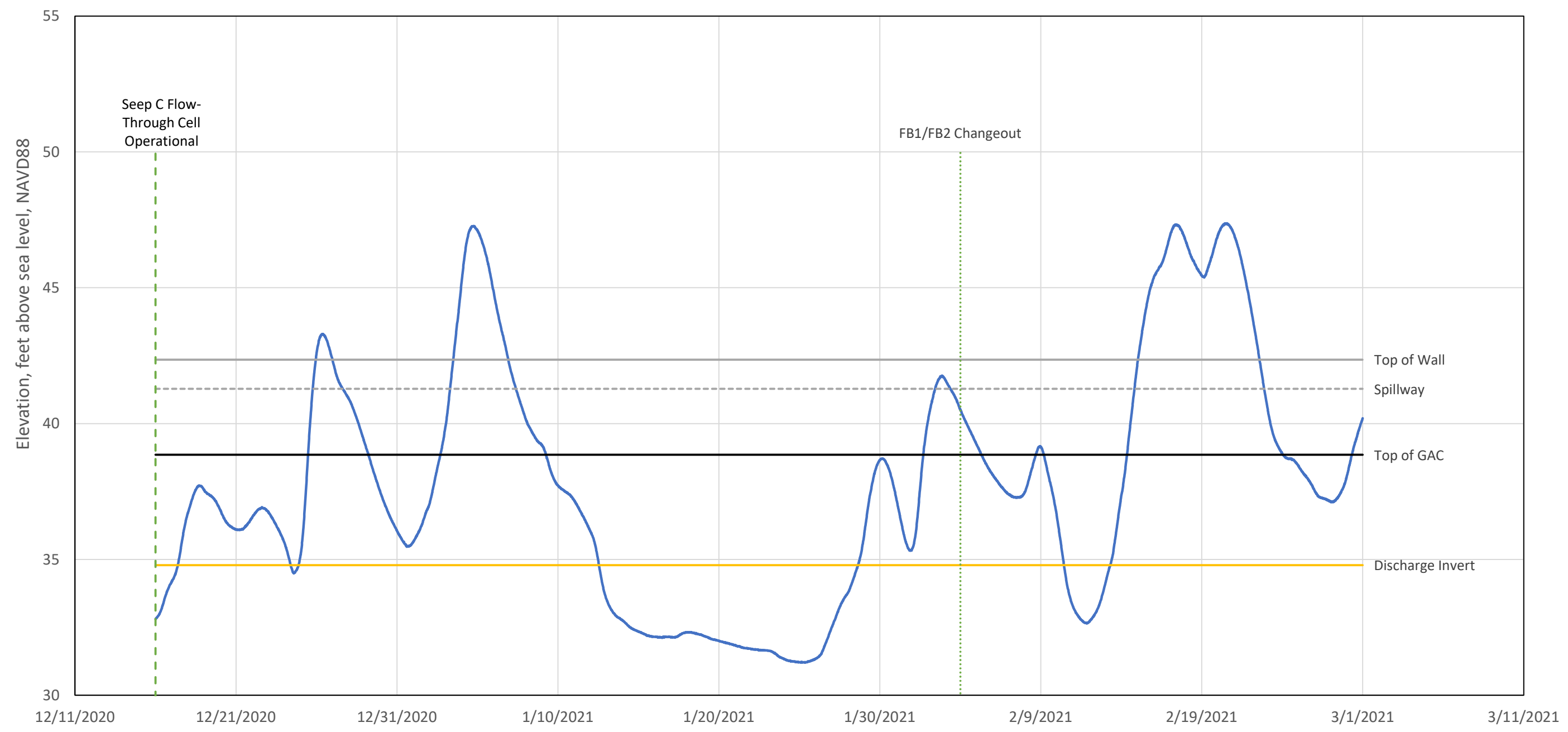
Precipitation (inches)	
2021 YTD	11.83
Historical YTD Average (2004-2020)	5.39
Historical Annual Average (2004-2020)	43.44

*Notes*

- 1 River elevation and precipitation data from USGS Huske Lock and Dam site 02105500.

# FIGURES

River Elevation During Seep C Flow Through Cell Operation (12/16/2020 through 02/28/2021)

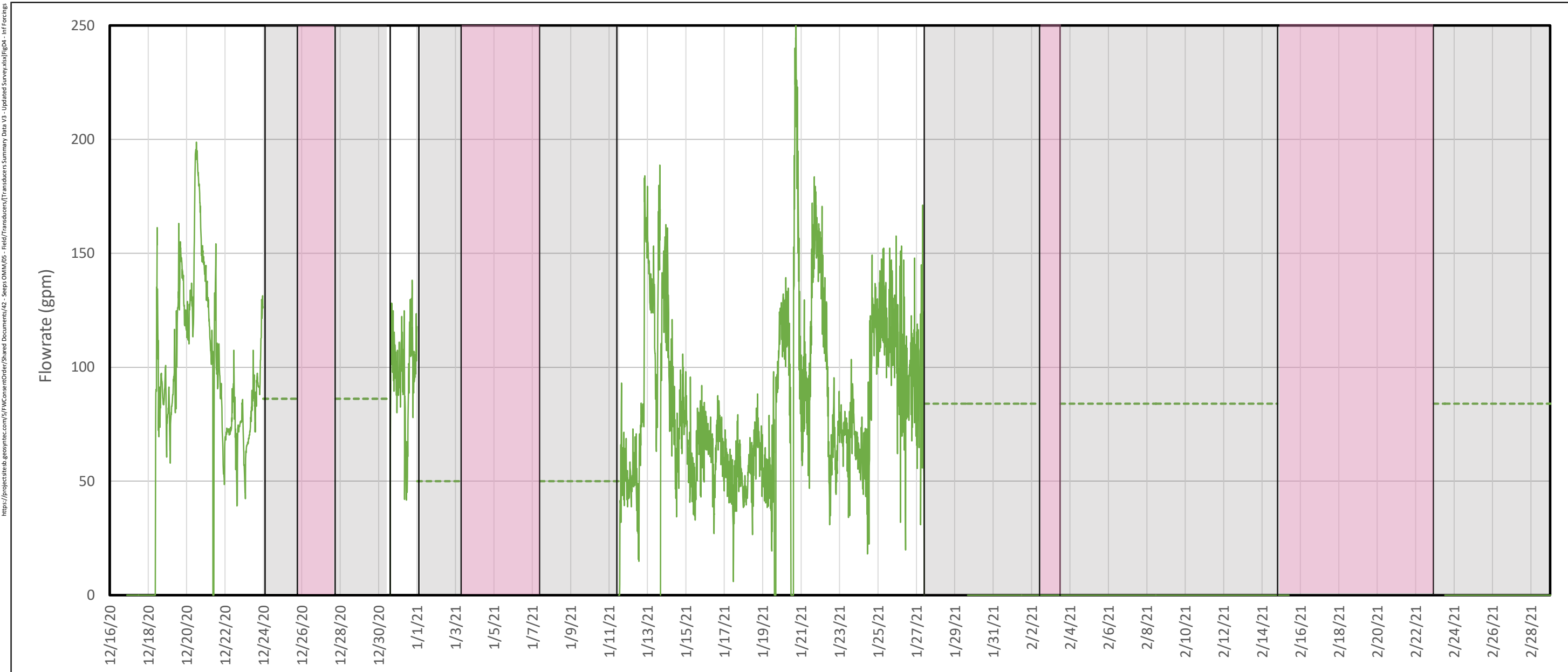


https://projects.ebay.geosyntec.com/5/fwcconsentorder/shareddocuments/42--Seeps/OMM/03--Reporting/Bimonthly/Report\_1\_2021-03-31/Figures/River/Figure/Figure Feb 28.xlsx[USGS]

**Legend**  
— River

**Notes:**  
 As-built survey information from RMA Surveying October 2020  
 River elevation from USGS Huske Lock and Dam site 02105500, converted to NAVD88  
 FB1/FB2 = Filter Bed 1/Filter Bed 2  
 GAC = Granular Activated Carbon

<b>River Level &amp; FTC As-Built Elevations</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. <small>NC License Nos: C 3500 and C 295</small>
Raleigh, NC	March 2021
<b>Figure 1</b>	



**Legend**  
 — Measureable Discharge Flowrate  
 - - Imputed Discharge Flowrate

█ Transducer Data Gap  
 █ Cape Fear River Above Spillway

**Flowrate Statistics (gpm)**

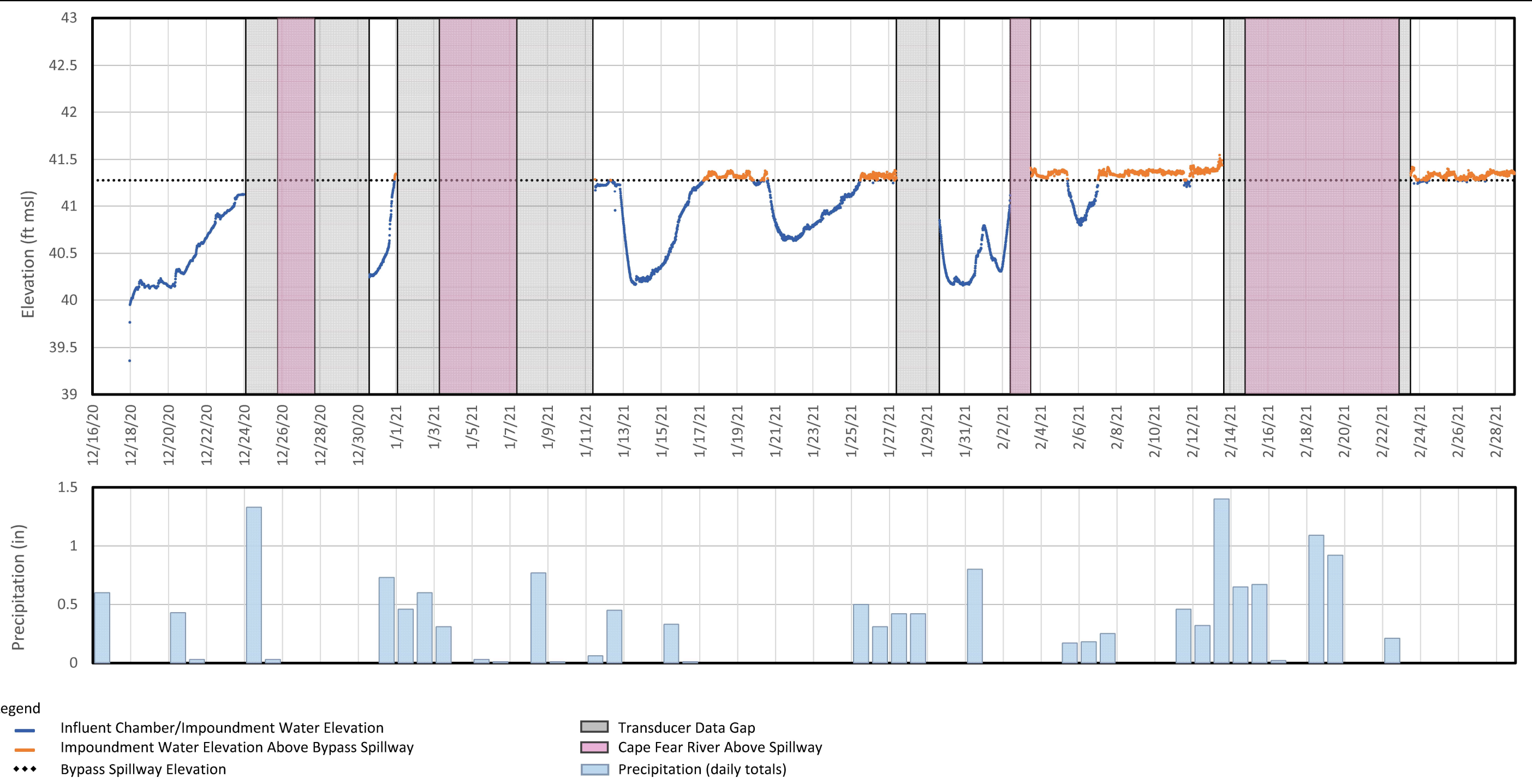
Median Q	84
95th percentile Q	156
Max Q	253

**Notes:**  
 Figure 2 depicts the measurable discharge flowrate calculated using the Discharge Basin transducer data (solid green). Where transducer data was missing but flow through the System was observed (i.e., non-flooding conditions), flowrate was extrapolated (dashed green). Extrapolations prior to 1/29/21 (i.e., Weir 3 installation) utilized the median flowrate from the subsequent or previous 24-hour period. The extrapolation after 1/29/21 utilized the median flowrate from the entire dataset of measureable flowrates.  
 Gaps in the transducer data record (grey shading) are described in Section 3.4.1.  
 When the river is above the level of the Bypass Spillway, there is no driving flow gradient, and therefore the FTC does not process any flow (pink shading).

<b>Measured and Imputed Discharge Flowrate</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	March 2021
<b>Figure 2</b>	



https://projects.ehb.geosyntec.com/5/FW/ConsentOrder/Shared Documents/42 - Steps OMM/05 - Field/Transducers/[Transducers Summary Data v3 - Updated Survey also fig 04 - inf Forcing]

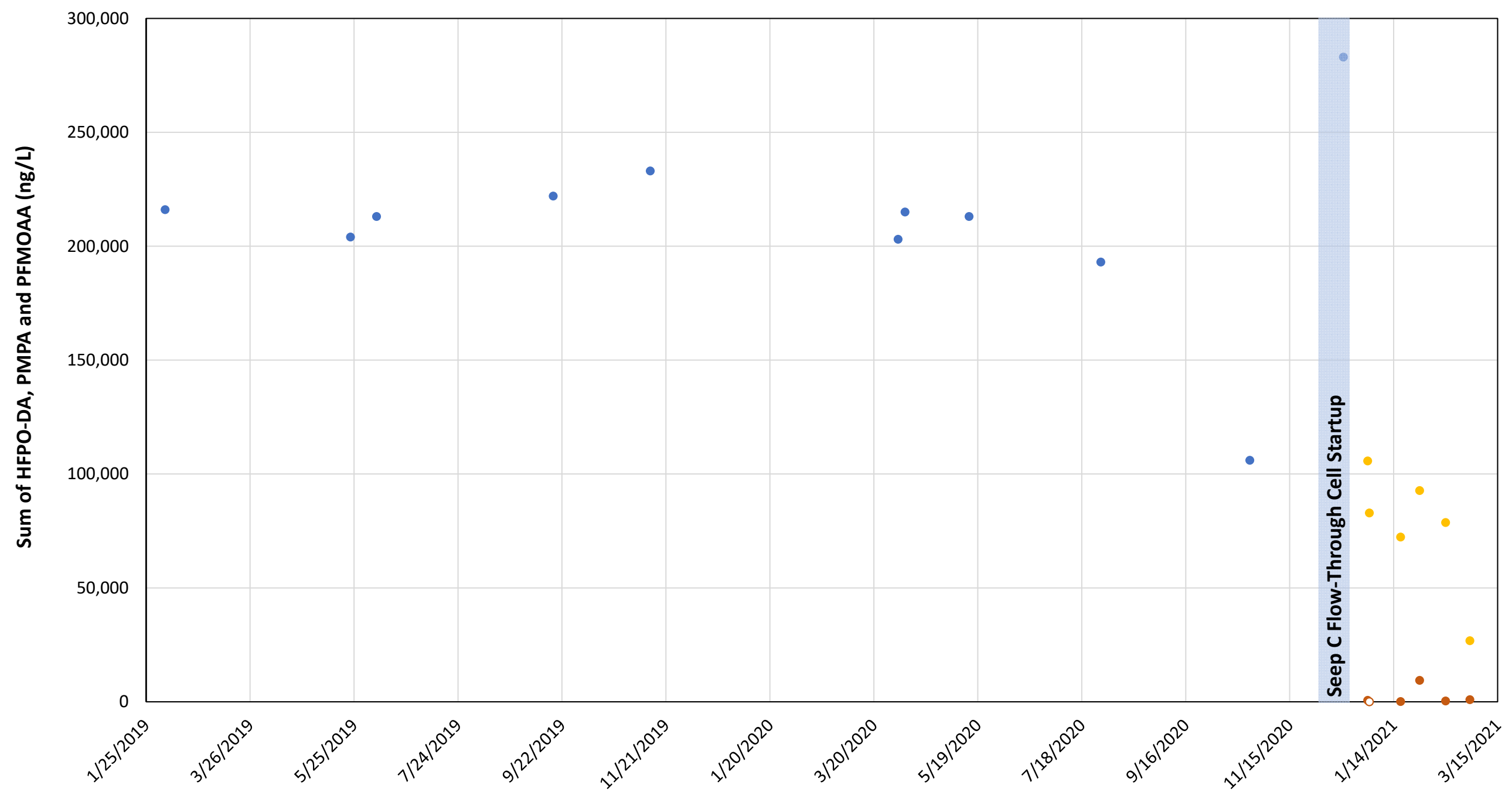


- Legend**
- Influent Chamber/Impoundment Water Elevation
  - Impoundment Water Elevation Above Bypass Spillway
  - ◆◆◆ Bypass Spillway Elevation
  - Transducer Data Gap
  - Cape Fear River Above Spillway
  - Precipitation (daily totals)

**Notes:**  
 Figure 3 shows the influent transducer data that was collected during the reporting period (blue line). Instances of impoundment bypass flow are shown in orange. Gaps in the transducer data record (grey shading) are described in Section 3.4.1. When the river is above the level of the Bypass Spillway, there is no driving flow gradient, and therefore the FTC does not process any flow (pink shading).

<b>Influent Water Elevation and Bypass Flow</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
	<b>Figure</b>  <b>3</b>
Raleigh, NC	March 2021

https://projectsitesb.geosyntec.com/5/FWConsentOrder/Shared Documents/A2\_Seeps OMM/03 - Reporting/Bimonthly/Report1 2021-03-31/Figures/Figure 4 - Seep C Indicator Parameter Trends.xlsx/Figure 4 - Old



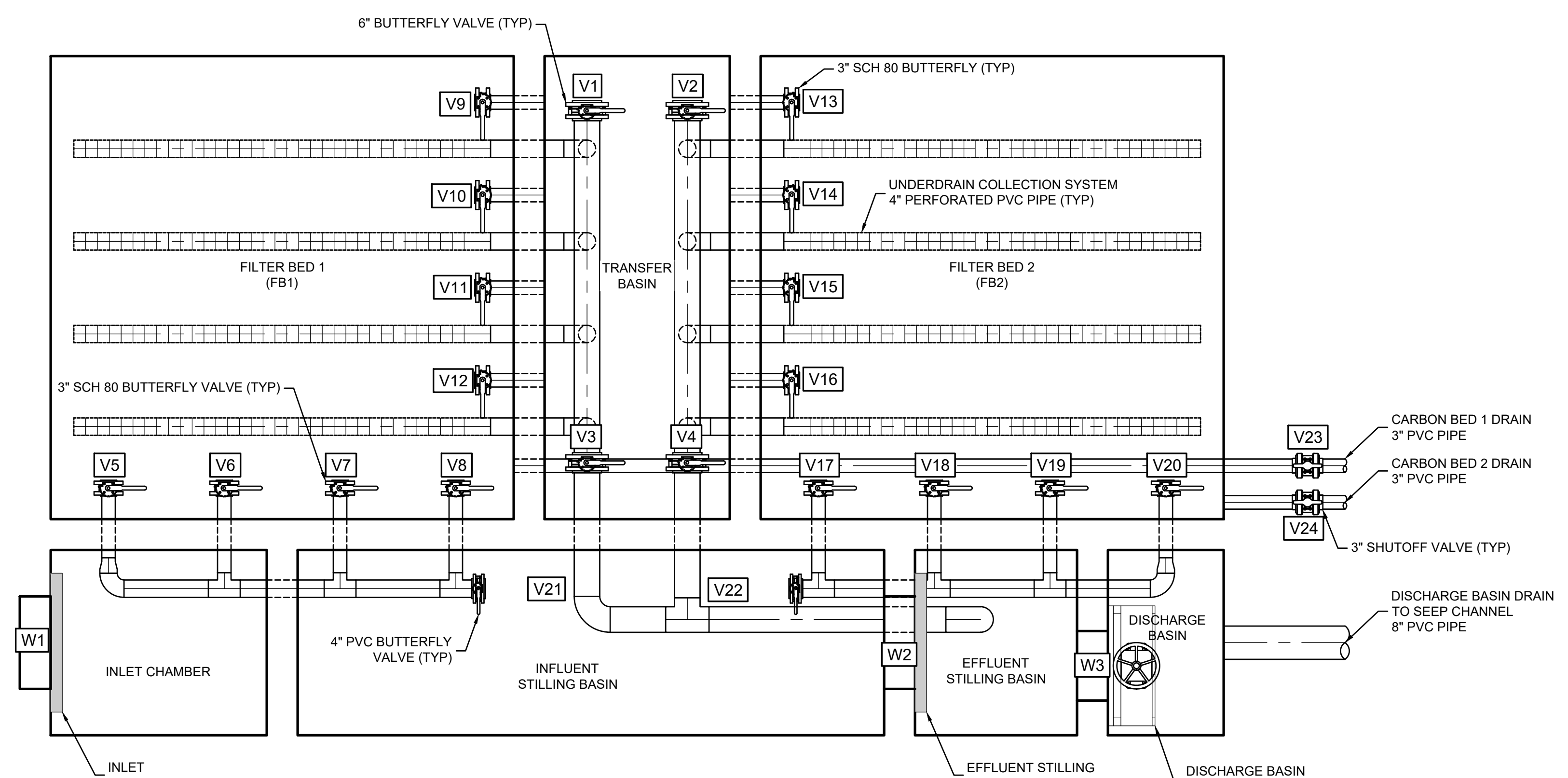
- Legend**
- Seep C, Historical Samples
  - Seep C, FTC Influent
  - Seep C, FTC Effluent
  - Seep C, FTC Effluent (non-detect)

<b>Seep C Indicator Parameter Trends: Feb 2019 through Feb 2021</b> Chemours Fayetteville Works Fayetteville, North Carolina	
Geosyntec <sup>®</sup> consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	March 2021
Figure 4	

# APPENDIX A

## Seep C Process Flow Diagram (Drawing D-01)

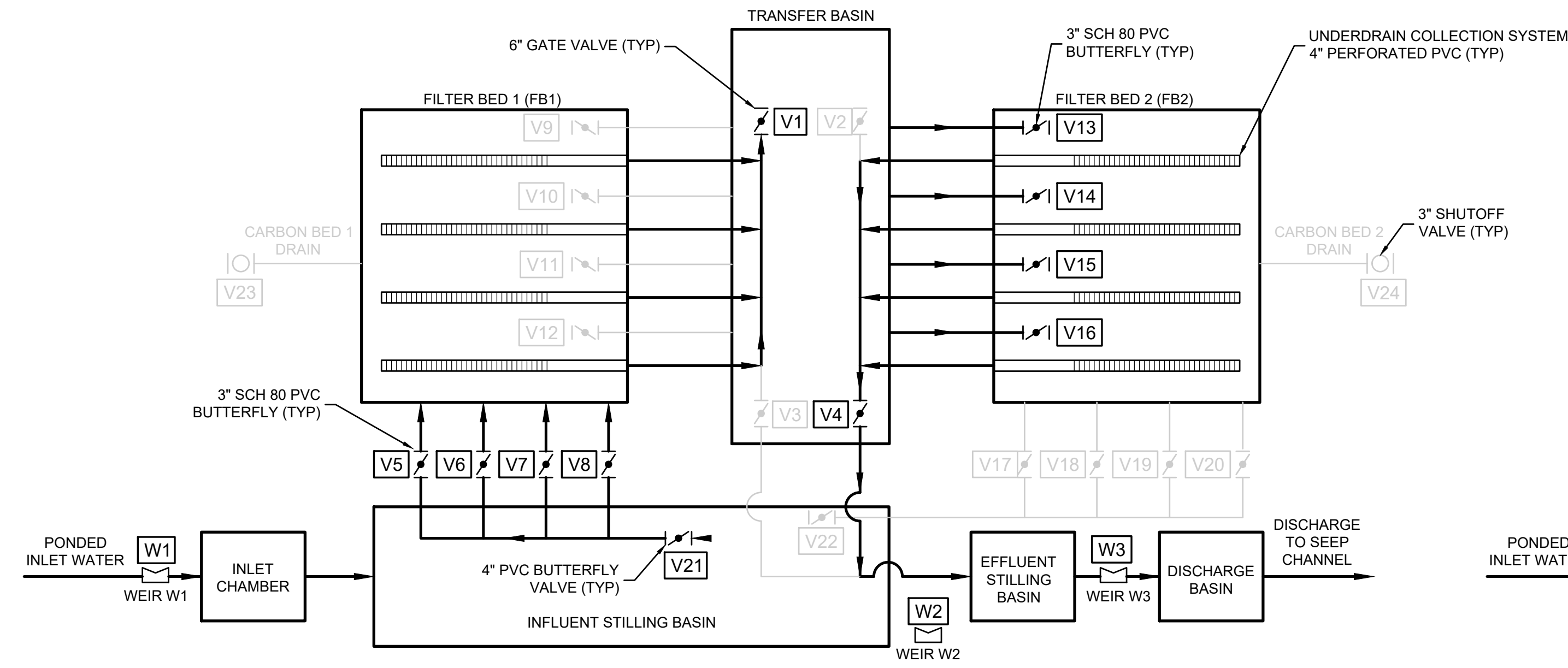




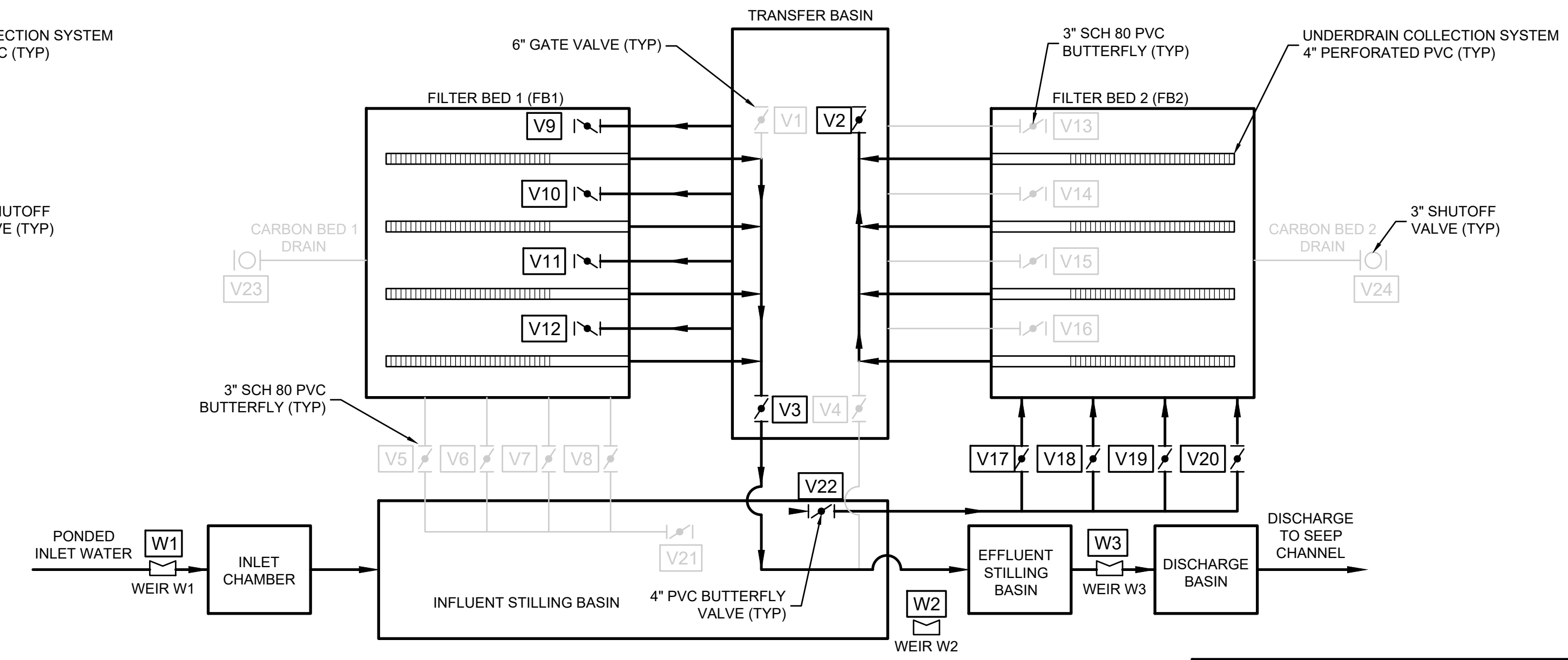
12 PLAN  
D-01 FILTER BED VALVE SCHEMATIC

OPERATIONAL MODE				
FLOW CONTROL DEVICE	FB1 LEAD/ FB2 LAG	FB1 LAG/ FB2 LEAD	FB1 CHANGEOUT (FB2 OPEN)	FB2 CHANGEOUT (FB1 OPEN)
VALVE V1	OPEN	CLOSED	CLOSED	CLOSED
VALVE V2	CLOSED	OPEN	CLOSED	CLOSED
VALVE V3	CLOSED	OPEN	CLOSED	OPEN
VALVE V4	OPEN	CLOSED	OPEN	CLOSED
VALVE V5	OPEN	CLOSED	CLOSED	OPEN
VALVE V6	OPEN	CLOSED	CLOSED	OPEN
VALVE V7	OPEN	CLOSED	CLOSED	OPEN
VALVE V8	OPEN	CLOSED	CLOSED	OPEN
VALVE V9	CLOSED	OPEN	CLOSED	CLOSED
VALVE V10	CLOSED	OPEN	CLOSED	CLOSED
VALVE V11	CLOSED	OPEN	CLOSED	CLOSED
VALVE V12	CLOSED	OPEN	CLOSED	CLOSED
VALVE V13	OPEN	CLOSED	CLOSED	CLOSED
VALVE V14	OPEN	CLOSED	CLOSED	CLOSED
VALVE V15	OPEN	CLOSED	CLOSED	CLOSED
VALVE V16	OPEN	CLOSED	CLOSED	CLOSED
VALVE V17	CLOSED	OPEN	OPEN	CLOSED
VALVE V18	CLOSED	OPEN	OPEN	CLOSED
VALVE V19	CLOSED	OPEN	OPEN	CLOSED
VALVE V20	CLOSED	OPEN	OPEN	CLOSED
VALVE V21	OPEN	CLOSED	CLOSED	OPEN
VALVE V22	CLOSED	OPEN	OPEN	CLOSED
VALVE V23	CLOSED	CLOSED	CLOSED	CLOSED
VALVE V24	CLOSED	CLOSED	CLOSED	CLOSED
WEIR W1	OPEN	OPEN	OPEN	OPEN
WEIR W2	OPEN	OPEN	OPEN	OPEN
WEIR W3	OPEN	OPEN	OPEN	OPEN

13 TABLE  
D-01 OPERATIONAL MODE



14 SCHEMATIC  
D-01 FILTER BED SYSTEM FLOW WITH CARBON BED 1 IN LEAD POSITION AND CARBON BED 2 IN LAG POSITION



15 SCHEMATIC  
D-01 FILTER BED SYSTEM FLOW WITH CARBON BED 2 IN LEAD POSITION AND CARBON BED 1 IN LAG POSITION

0	10.20.20	100% ISSUED FOR CONSTRUCTION	SUBMITTAL	JFH	CAS
REV	DATE	DESCRIPTION		DRN	APP

**Geosyntec** consultants  
Geosyntec Consultants of NC, P.C.  
NC License No.: C-3500 and C-295

ATRILUM AT BLUE RIDGE  
2501 BLUE RIDGE ROAD, SUITE 430  
RALEIGH, NC 27607  
919.870.0576

TITLE: SEEP C INTERIM REMEDIATION SYSTEM PROCESS FLOW DIAGRAM  
PROJECT: THE CHEMOURS COMPANY SEEP C INTERIM REMEDIATION SYSTEM  
SITE: FAYETTEVILLE WORKS SITE

DESIGN BY: CMDS DATE: OCTOBER 2020  
DRAWN BY: JFH PROJECT NO.: TR0795  
CHECKED BY: JWE FILE: TR0795-D601.dwg  
REVIEWED BY: JJD DRAWING NO.:  
APPROVED BY: CAS D-01

100% DESIGN DRAWINGS - ISSUED FOR CONSTRUCTION  
401 CERTIFICATION #WQC004235 (10/02/2020) AND  
USACE 404 PERMIT SAW-2019-00206 (10/05/2020)

OCTOBER 20, 2020 DATE

LOAD: C:\CHEMOURS\INTERIM SEEP REMEDIATION\CONSTRUCTION ADMIN\DWG\17095-D601

# APPENDIX B

## Photolog

# Photolog Part 1 – Inspections

**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1a**

**Date: 12/16/20**

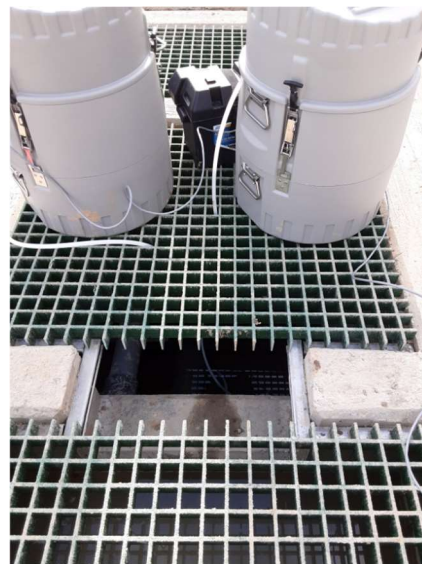
**Comments: Flow-Through Cell startup. Impoundment water is accumulating and has not reached the level of the Inlet Chamber inlet yet.**



**Photograph ID: 1b**

**Date: 12/23/2020**

**Comments: Effluent Stilling Basin**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

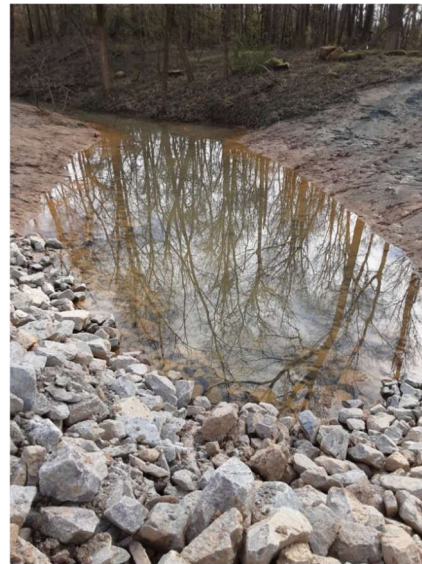
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1c**

**Date: 12/23/2021**

**Comments: Discharge pipe outlet**



**Photograph ID: 1d**

**Date: 12/23/2020**

**Comments: GAC Filter Bed 2**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1e**

**Date: 12/23/2020**

**Comments GAC Filter Bed 1 before cleaning.**



**Photograph ID: 1f**

**Date: 12/24/2020**

**Comments: GAC Filter Bed 1 after cleaning**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1g**

**Date: 12/30/2020**

**Comments: Bypass Spillway**



**Photograph ID: 1h**

**Date: 12/30/2020**

**Comments: Impoundment Basin**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1i**

**Date: 1/11/2021**

**Comments: General Seep area**



**Photograph ID: 1j**

**Date: 1/11/2021**

**Comments: Bypass Spillway**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1k**

**Date: 1/11/2021**

**Comments: Filter Bed 1**



**Photograph ID: 1l**

**Date: 1/11/2021**

**Comments: Filter Bed 2**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1m**

**Date: 1/19/2021**

**Comments: Spillway Outlet. Flow over Spillway observed pre-cleaning.**



**Photograph ID: 1n**

**Date: 1/19/2021**

**Comments: Spillway Outlet. Flow over Spillway not observed post-cleaning.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1o**

**Date: 1/19/2021**

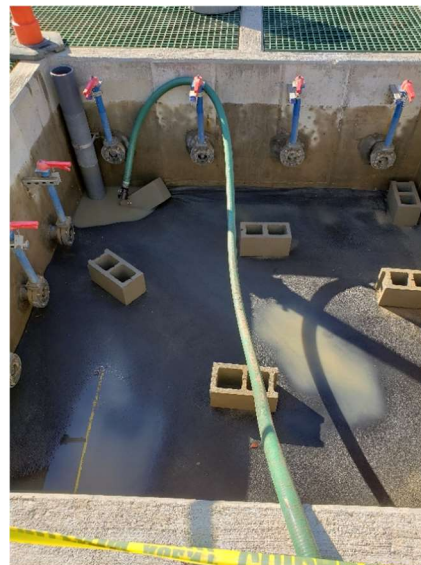
**Comments: Inlet Basin. Cleared of debris.**



**Photograph ID: 1p**

**Date: 1/9/2021**

**Comments: GAC Filter Bed 1 after filter fabric brushed clean.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1q**

**Date: 1/19/2021**

**Comments: GAC Filter Bed 2 after new fabric installed and 1/2 inch of GAC with sediment was removed.**



**Photograph ID: 1r**

**Date: 1/19/2021**

**Comments: Effluent Stilling Basin after dewatered, power washed, and flushed again with dewatering sent upstream.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

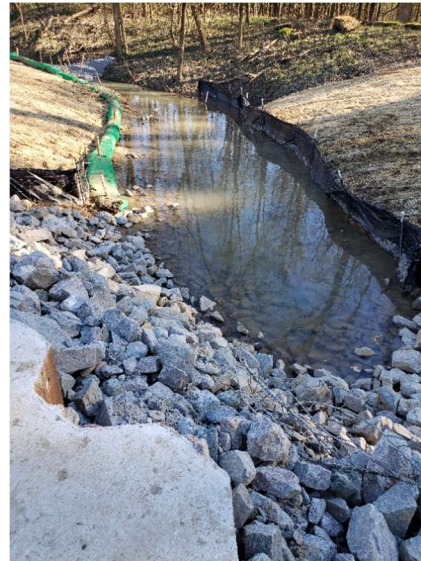
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1s**

**Date: 1/19/2021**

**Comments: Discharge pipe outlet.  
Water impounded by check dam.**



**Photograph ID: 1t**

**Date: 1/26/2021**

**Comments: Inlet Chamber inlet  
and Bypass Spillway Inlet**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1u**

**Date: 1/26/2021**

**Comments: Filter Bed 1**



**Photograph ID: 1v**

**Date: 1/26/2021**

**Comments: Filter Bed 2**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1w**

**Date: 2/1/2021**

**Comments: Impoundment**



**Photograph ID: 1x**

**Date: 2/1/2021**

**Comments: Filter Bed 2**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1y**

**Date: 2/11/2021**

**Comments: GAC Filter Bed 1  
pre-cleaning**



**Photograph ID: 1z**

**Date: 2/11/2021**

**Comments: GAC Filter Bed 1  
post-cleaning**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1aa**

**Date: 2/11/2021**

**Comments: GAC Filter Bed 2  
pre-cleaning**



**Photograph ID: 1ab**

**Date: 2/11/2021**

**Comments: GAC Filter Bed 2  
post-cleaning**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**

**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1ac**

**Date: 2/11/2021**

**Comments: Bypass Spillway inlet, pre-cleaning. Flow observed over Spillway.**



**Photograph ID: 1ad**

**Date: 2/11/2021**

**Comments: Bypass Spillway inlet, post-cleaning. Water in bypass has dropped.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1ae**

**Date: 2/13/21**

**Comments: Flow-Through Cell  
general area.**



**Photograph ID: 1af**

**Date: 2/13/2021**

**Comments: Bypass Spillway.  
Very turbid water.**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1ag**

**Date: 2/13/2021**

**Comments: Filter Bed 2**



**Photograph ID: 1ah**

**Date: 2/26/2021**

**Comments: GAC Filter Bed 1. Maintenance with brush suction head and choked 2-inch pump.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 1, Inspections**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 1ai**

**Date: 2/26/2021**

**Comments: GAC Filter Bed 1 post-maintenance. Flows better than pre-maintenance.**



**Photograph ID: 1aj**

**Date: 2/26/2021**

**Comments: GAC Filter Bed 2 post-maintenance. Water level post-maintenance is similar to pre-maintenance.**





# Photolog Part 2 – Bypass Spillway

**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

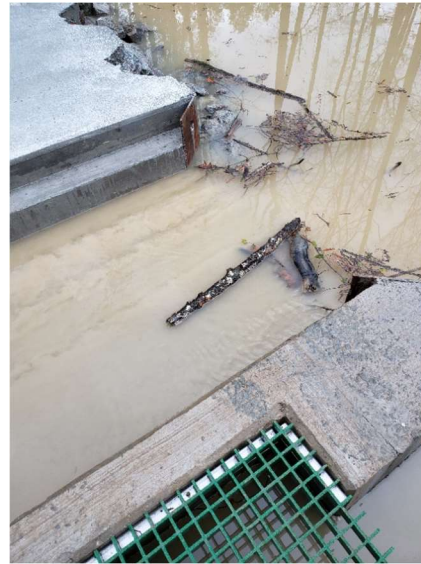
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2a**

**Date: 12/24/2020**

**Comments: Flow through the Bypass Spillway**



**Photograph ID: 2b**

**Date: 12/29/2020**

**Comments: Flow through the Bypass Spillway**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

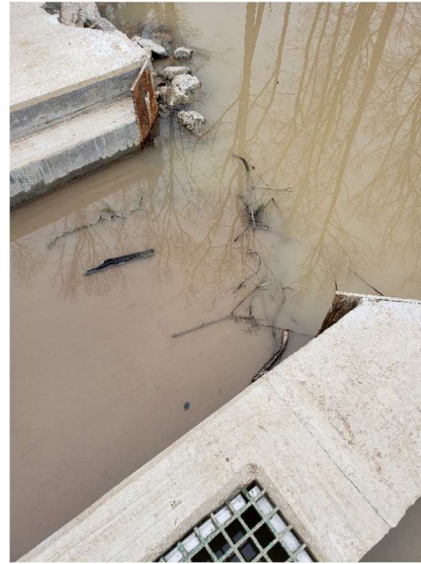
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2c**

**Date: 1/11/2021**

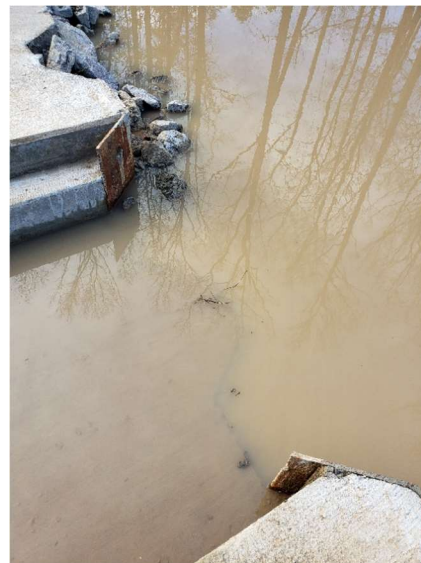
**Comments: Bypass Spillway pre-maintenance**



**Photograph ID: 2d**

**Date: 1/12/2021**

**Comments: Flow through the Bypass Spillway**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client:** Chemours Fayetteville

**Project Number:** TR0795A

**Site Name:** Seep C

**Site Location:** Fayetteville, North Carolina

**Photograph ID:** 2e

**Date:** 1/18/2021

**Comments:** Flow through the Bypass Spillway



**Photograph ID:** 2f

**Date:** 1/19/2021

**Comments:** Flow through the Bypass Spillway



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

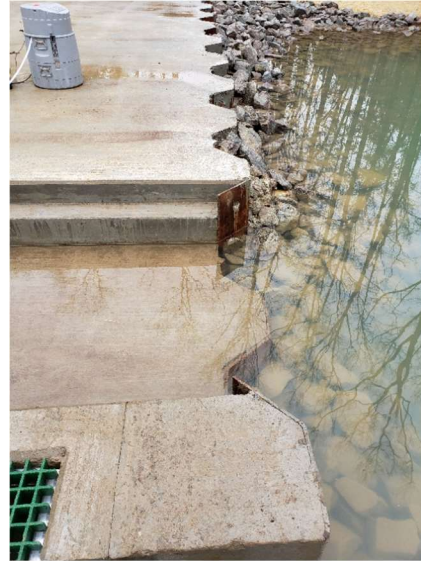
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2g**

**Date: 1/25/2021**

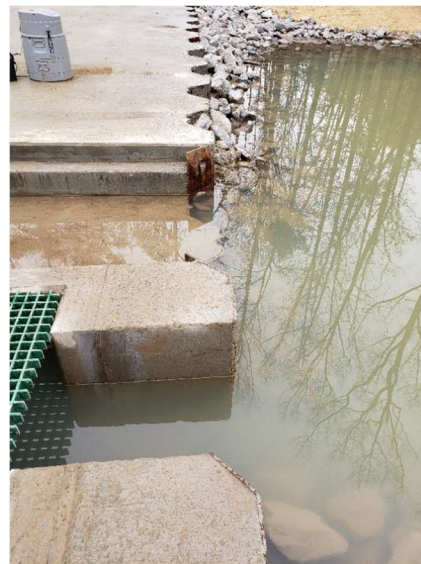
**Comments: Flow through the Bypass Spillway**



**Photograph ID: 2h**

**Date: 1/26/2021**

**Comments: Flow through the Bypass Spillway**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client:** Chemours Fayetteville

**Project Number:** TR0795A

**Site Name:** Seep C

**Site Location:** Fayetteville, North Carolina

**Photograph ID:** 2i

**Date:** 1/27/21

**Comments:** Flow over the Bypass Spillway seen in background of Filter Bed 1.



**Photograph ID:** 2j

**Date:** 1/29/2021

**Comments:** Flow through the Bypass Spillway



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2k**

**Date: 2/4/2021**

**Comments: Flow through the Bypass Spillway**



**Photograph ID: 2l**

**Date: 2/11/2021**

**Comments: Flow through the Bypass Spillway**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

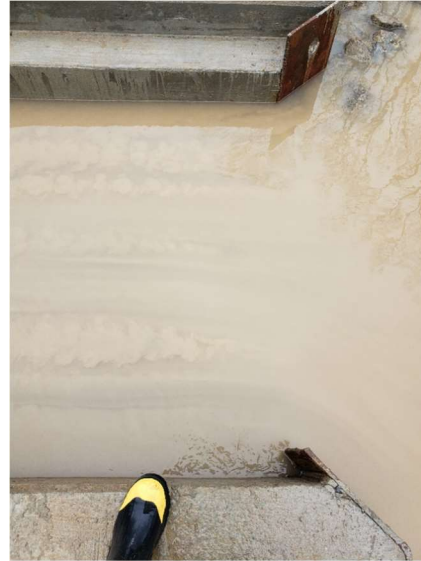
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2m**

**Date: 2/13/2021**

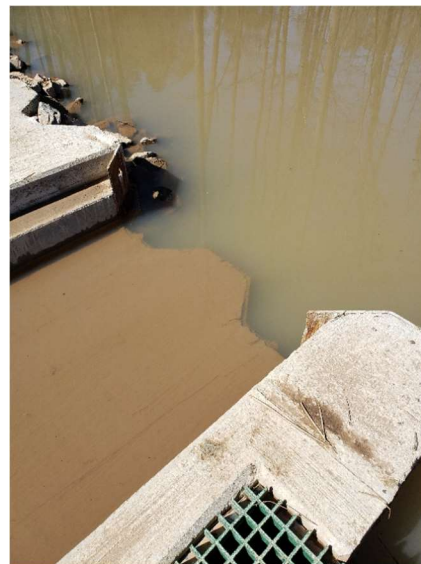
**Comments: Flow through the Bypass Spillway**



**Photograph ID: 2n**

**Date: 2/23/2021**

**Comments: Flow through the Bypass Spillway**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 2, Flow Over Bypass Spillway**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

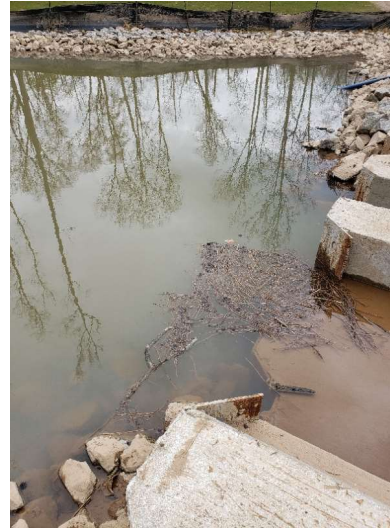
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 2o**

**Date: 2/26/2021**

**Comments: Flow through the Bypass Spillway**



Photolog Part 3 –  
0.5 Inch Rain Event Response  
and Wet Weather Sampling

**GEOSYNTEC CONSULTANTS**  
**Photographic Record- Part 3, 0.5 Inch Rain Event Response**  
**and Wet Weather Sampling**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3a**

**Date: 12/24/2020**

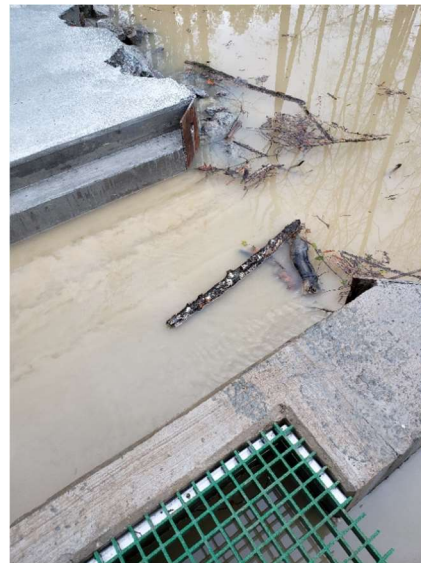
**Comments: General Seep Area**



**Photograph ID: 3b**

**Date: 12/24/2020**

**Comments: Spillway**



**GEOSYNTEC CONSULTANTS**



**Photographic Record- Part 3, 0.5 Inch Rain Event Response  
and Wet Weather Sampling**

**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3c**

**Date: 12/24/2020**

**Comments: GAC Filter Bed 1**



**Photograph ID: 3d**

**Date: 12/24/2020**

**Comments: GAC Filter Bed 2**



**GEOSYNTEC CONSULTANTS**



**Photographic Record- Part 3, 0.5 Inch Rain Event Response  
and Wet Weather Sampling**

**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3e**

**Date: 12/24/2020**

**Comments: Discharge Pipe  
Outlet**



*This space intentionally left blank.*

**GEOSYNTEC CONSULTANTS**



**Photographic Record- Part 3, 0.5 Inch Rain Event Response  
and Wet Weather Sampling**

**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3f**

**Date: 1/26/2021**

**Comments: GAC Filter Bed 1**



**Photograph ID: 3g**

**Date: 1/26/2021**

**Comments: GAC Filter Bed 2**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record- Part 3, 0.5 Inch Rain Event Response**  
**and Wet Weather Sampling**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3h**

**Date: 1/26/2021**

**Comments: Spillway Inlet**



**Photograph ID: 3i**

**Date: 2/13/2021**

**Comments: Reservoir Basin**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record- Part 3, 0.5 Inch Rain Event Response**  
**and Wet Weather Sampling**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3j**

**Date: 2/13/2021**

**Comments: General Seep Area**



**Photograph ID: 3k**

**Date: 2/13/2021**

**Comments: GAC Filter Bed 1**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record- Part 3, 0.5 Inch Rain Event Response**  
**and Wet Weather Sampling**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3l**

**Date: 2/13/2021**

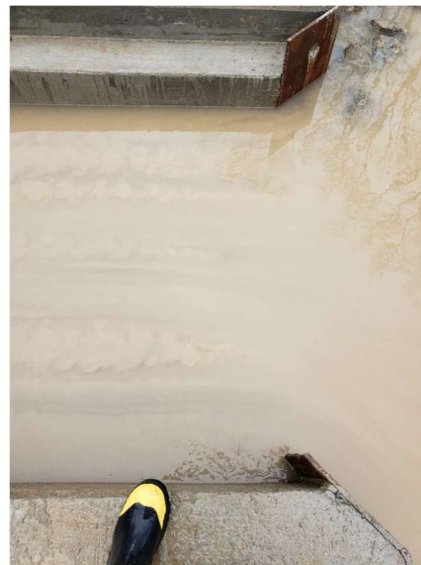
**Comments: GAC Filter Bed 2**



**Photograph ID: 3m**

**Date: 2/13/2021**

**Comments: Spillway Inlet**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record- Part 3, 0.5 Inch Rain Event Response**  
**and Wet Weather Sampling**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 3n**

**Date: 2/13/2021**

**Comments: Spillway Discharge**



**Photograph ID: 3o**

**Date: 2/13/2021**

**Comments: Discharge Pipe Outlet**



Photolog Part 4 –  
GAC Changeout



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4a**

**Date: 2/4/2021**

**Comments: Discharge Pipe Outlet. River water backflow is preventing processing.**



**Photograph ID: 4b**

**Date: 2/4/2021**

**Comments: Spillway Outlet**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4c**

**Date: 2/4/2021**

**Comments: Spillway Inlet with approximately 1.5" of water over spillway.**



**Photograph ID: 4d**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 1 - Pre-Maintenance.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4e**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 1 -  
Carbon removed from bed.  
Expansion foam added in corner.**



**Photograph ID: 4f**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 1 -  
Installed 9 super sacs. New  
geotextile composite filter fabric  
installed. Filter Bed 1 is now lag  
bay.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4g**

**Date: 2/4/2021**

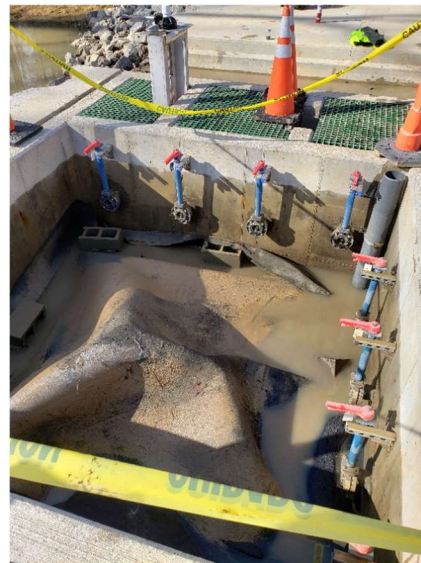
**Comments: GAC Filter Bed 1 at departure.**



**Photograph ID: 4h**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 2 - Pre-Maintenance.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4i**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 2 -  
Geo composite being removed.**



**Photograph ID: 4j**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 2 -  
Carbon removed. Expansive foam  
added in corner.**





**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

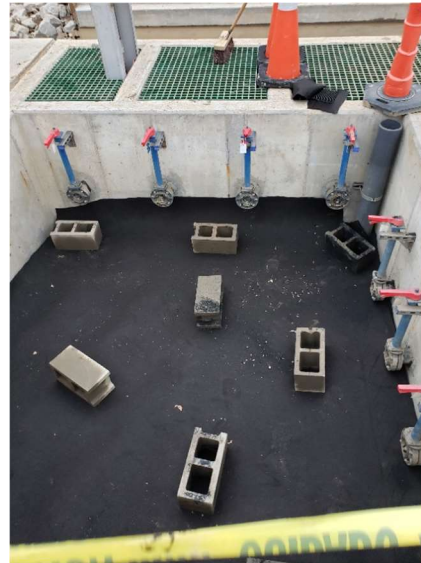
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4k**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 2 -  
Post maintenance. Installed 9  
carbon sacs and new filter fabric.**



**Photograph ID: 4l**

**Date: 2/4/2021**

**Comments: GAC Filter Bed 2  
after hydration. Serving as lead  
bay.**



**GEOSYNTEC CONSULTANTS**  
**Photographic Record – Part 4, GAC Changeout**



**Client: Chemours Fayetteville**

**Project Number: TR0795A**

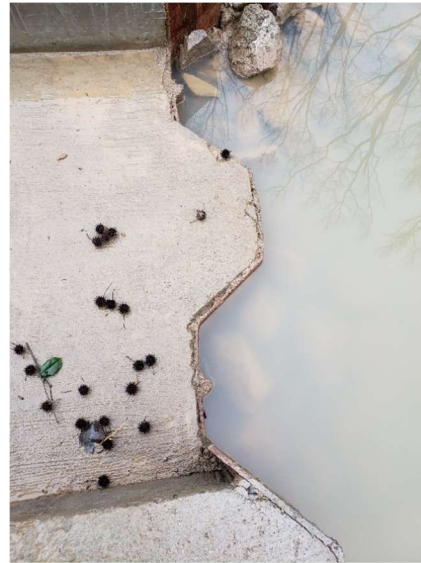
**Site Name: Seep C**

**Site Location: Fayetteville, North Carolina**

**Photograph ID: 4m**

**Date: 2/5/2021**

**Comments: Spillway inlet at departure.**





# APPENDIX C

## Laboratory Analytical Reports

## ANALYTICAL REPORT

Job Number: 320-68396-1

Job Description: FAY-Seep Flow Through Cell Sampling 2020

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713  
Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
1/15/2021 11:22 AM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
01/15/2021  
Revision: 1

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Sacramento  
880 Riverside Parkway, West Sacramento, CA 95605  
Tel (916) 373-5600 Fax (916) 372-1059 [www.testamericainc.com](http://www.testamericainc.com)



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2020**  
**Report Number: 320-68396-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Revision - 1/15/2021**

In accordance with the revised Chain-of-Custody received 1/14/2021, the ID for sample SEEP-C-RAIN-EFFLUENT-4-122420 (320-68396-2) was revised to SEEP-C-RAIN-EFF\_BY\_PSS-4-122420.

**Sample Arrival and Receipt**

The samples were received on 12/31/2020 10:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

**Receipt Exceptions**

The following IDs were updated in accordance with the revised Chain-of-Custody (COC) received 1/7/2021.

SEEP-C-INFLUENT-19-123020 (320-68396-3) change to SEEP-C-INFLUENT-114-123020

SEEP-C-EFFLUENT-19-123020 (320-68396-4) change to SEEP-C-EFFLUENT-114-123020

Both the original and revised COCs have been included in the report.

No other anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-RAIN-INFLUENT-4-122420 (320-68396-1), SEEP-C-RAIN- EFF\_BY\_PSS-4-122420 (320-68396-2), SEEP-C-INFLUENT-114-123020 (320-68396-3), SEEP-C-EFFLUENT-114-123020 (320-68396-4), SEEP-C-RAIN-EQBLK-123020 (320-68396-5), SEEP-C-EQBLK-123020 (320-68396-6) and SEEP-C-FBLK-123020 (320-68396-7) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared and analyzed on 01/05/2021.

The following samples were observed to be light yellow prior to extraction: SEEP-C-RAIN-INFLUENT-4-122420 (320-68396-1), SEEP-C-RAIN- EFF\_BY\_PSS-4-122420 (320-68396-2) and SEEP-C-INFLUENT-114-123020 (320-68396-3).

The project required MS and Sample Duplicate could not be performed for prep batch 320-448399, due to either being from a different job/SDG or due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68396-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	EVE Acid	<0.017	<0.017	0.017
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	HFPO-DA	20	20	0.081
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Hydro-EVE Acid	1.6	1.6	0.014
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Hydrolyzed PSDA	1.5	1.5	0.038
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Hydro-PS Acid	0.46	0.46	0.0061
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	NVHOS	0.98	0.98	0.015
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PEPA	3.1	3.1	0.016
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PES	0.0068	0.0068	0.0067
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFECA B	<0.027	<0.027	0.027
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFECA G	<0.048	<0.048	0.048
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFMOAA	110	110	0.080
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFO2HxA	31	31	0.027
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFO3OA	8.0	8.0	0.039
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFO4DA	2.9	2.9	0.059
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PFO5DA	<0.078	<0.078	0.078
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PMPA	9.5	9.5	0.62
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	PS Acid	<0.020	<0.020	0.020
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	R-EVE	1.1	1.1	0.072
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	R-PSDA	1.0	1.0	0.071
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	R-PSDCA	0.017	0.017	0.017
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	EVE Acid	<0.017	<0.017	0.017
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	HFPO-DA	3.6	3.6	0.081
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	Hydro-EVE Acid	0.28	0.28	0.014
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	Hydrolyzed PSDA	0.28	0.28	0.038
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	Hydro-PS Acid	0.065	0.065	0.0061
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	NVHOS	0.17	0.17	0.015
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PEPA	0.56	0.56	0.016
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PES	<0.0067	<0.0067	0.0067
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFECA B	<0.027	<0.027	0.027
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFECA G	<0.048	<0.048	0.048
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFMOAA	19	19	0.080
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFO2HxA	5.5	5.5	0.027
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFO3OA	1.5	1.5	0.039
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFO4DA	0.43	0.43	0.059
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PFO5DA	<0.078	<0.078	0.078
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PMPA	1.7	1.7	0.62
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	PS Acid	<0.020	<0.020	0.020
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	R-EVE	0.21	0.21	0.072
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	R-PSDA	0.17	0.17	0.071
320-68396-2	SEEP-C-RAIN-EFF_BYPASS-4-122420	R-PSDCA	<0.017	<0.017	0.017
320-68396-3	SEEP-C-INFLUENT-114-123020	EVE Acid	<0.017	<0.017	0.017
320-68396-3	SEEP-C-INFLUENT-114-123020	HFPO-DA	19	19	0.081

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68396-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68396-3	SEEP-C-INFLUENT-114-123020	Hydro-EVE Acid	1.5	1.5	0.014
320-68396-3	SEEP-C-INFLUENT-114-123020	Hydrolyzed PSDA	1.3	1.3	0.038
320-68396-3	SEEP-C-INFLUENT-114-123020	Hydro-PS Acid	0.37	0.37	0.0061
320-68396-3	SEEP-C-INFLUENT-114-123020	NVHOS	0.85	0.85	0.015
320-68396-3	SEEP-C-INFLUENT-114-123020	PEPA	3.0	3.0	0.016
320-68396-3	SEEP-C-INFLUENT-114-123020	PES	<0.0067	<0.0067	0.0067
320-68396-3	SEEP-C-INFLUENT-114-123020	PFECA B	<0.027	<0.027	0.027
320-68396-3	SEEP-C-INFLUENT-114-123020	PFECA G	<0.048	<0.048	0.048
320-68396-3	SEEP-C-INFLUENT-114-123020	PFMOAA	96	96	0.080
320-68396-3	SEEP-C-INFLUENT-114-123020	PFO2HxA	27	27	0.027
320-68396-3	SEEP-C-INFLUENT-114-123020	PFO3OA	7.6	7.6	0.039
320-68396-3	SEEP-C-INFLUENT-114-123020	PFO4DA	2.0	2.0	0.059
320-68396-3	SEEP-C-INFLUENT-114-123020	PFO5DA	<0.078	<0.078	0.078
320-68396-3	SEEP-C-INFLUENT-114-123020	PMPA	9.7	9.7	0.62
320-68396-3	SEEP-C-INFLUENT-114-123020	PS Acid	<0.020	<0.020	0.020
320-68396-3	SEEP-C-INFLUENT-114-123020	R-EVE	0.97	0.97	0.072
320-68396-3	SEEP-C-INFLUENT-114-123020	R-PSDA	1.0	1.0	0.071
320-68396-3	SEEP-C-INFLUENT-114-123020	R-PSDCA	0.017	0.017	0.017
320-68396-4	SEEP-C-EFFLUENT-114-123020	EVE Acid	<0.017	<0.017	0.017
320-68396-4	SEEP-C-EFFLUENT-114-123020	HFPO-DA	<0.081	<0.081	0.081
320-68396-4	SEEP-C-EFFLUENT-114-123020	Hydro-EVE Acid	<0.014	<0.014	0.014
320-68396-4	SEEP-C-EFFLUENT-114-123020	Hydrolyzed PSDA	<0.038	<0.038	0.038
320-68396-4	SEEP-C-EFFLUENT-114-123020	Hydro-PS Acid	<0.0061	<0.0061	0.0061
320-68396-4	SEEP-C-EFFLUENT-114-123020	NVHOS	<0.015	<0.015	0.015
320-68396-4	SEEP-C-EFFLUENT-114-123020	PEPA	<0.016	<0.016	0.016
320-68396-4	SEEP-C-EFFLUENT-114-123020	PES	<0.0067	<0.0067	0.0067
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFECA B	<0.027	<0.027	0.027
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFECA G	<0.048	<0.048	0.048
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFMOAA	<0.080	<0.080	0.080
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFO2HxA	<0.027	<0.027	0.027
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFO3OA	<0.039	<0.039	0.039
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFO4DA	<0.059	<0.059	0.059
320-68396-4	SEEP-C-EFFLUENT-114-123020	PFO5DA	<0.078	<0.078	0.078
320-68396-4	SEEP-C-EFFLUENT-114-123020	PMPA	0.64	0.64	0.62
320-68396-4	SEEP-C-EFFLUENT-114-123020	PS Acid	<0.020	<0.020	0.020
320-68396-4	SEEP-C-EFFLUENT-114-123020	R-EVE	<0.072	<0.072	0.072
320-68396-4	SEEP-C-EFFLUENT-114-123020	R-PSDA	<0.071	<0.071	0.071
320-68396-4	SEEP-C-EFFLUENT-114-123020	R-PSDCA	<0.017	<0.017	0.017
320-68396-5	SEEP-C-RAIN-EQBLK-123020	EVE Acid	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	HFPO-DA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68396-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	NVHOS	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PEPA	<0.010	<0.010	0.010
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PES	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFECA B	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFECA G	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFMOAA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFO2HxA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFO3OA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFO4DA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PFO5DA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PMPA	<0.020	<0.020	0.020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	PS Acid	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	R-EVE	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	R-PSDA	<0.0020	<0.0020	0.0020
320-68396-5	SEEP-C-RAIN-EQBLK-123020	R-PSDCA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	EVE Acid	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	HFPO-DA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	NVHOS	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PEPA	<0.010	<0.010	0.010
320-68396-6	SEEP-C-EQBLK-123020	PES	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFECA B	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFECA G	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFMOAA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFO2HxA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFO3OA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFO4DA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PFO5DA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	PMPA	<0.020	<0.020	0.020
320-68396-6	SEEP-C-EQBLK-123020	PS Acid	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	R-EVE	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	R-PSDA	<0.0020	<0.0020	0.0020
320-68396-6	SEEP-C-EQBLK-123020	R-PSDCA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	EVE Acid	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	HFPO-DA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	NVHOS	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68396-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68396-7	SEEP-C-FBLK-123020	PEPA	<0.010	<0.010	0.010
320-68396-7	SEEP-C-FBLK-123020	PES	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFECA B	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFECA G	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFMOAA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFO2HxA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFO3OA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFO4DA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PFO5DA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	PMPA	<0.020	<0.020	0.020
320-68396-7	SEEP-C-FBLK-123020	PS Acid	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	R-EVE	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	R-PSDA	<0.0020	<0.0020	0.0020
320-68396-7	SEEP-C-FBLK-123020	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-4-122420**

**Lab Sample ID: 320-68396-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	20		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.6		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.5		0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.46		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.98		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	3.1		0.016		ug/L	1		Chemours (TB3+)	Total/NA
PES	0.0068		0.0067		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	110		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	31		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	8.0		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	2.9		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	9.5		0.62		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	1.1		0.072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	1.0		0.071		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDCA	0.017		0.017		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420**

**Lab Sample ID: 320-68396-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	3.6		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	0.28		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.28		0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.065		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.17		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	0.56		0.016		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	19		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	5.5		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	1.5		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.43		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	1.7		0.62		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.21		0.072		ug/L	1		Chemours (TB3+)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-EFF\_BYSS-4-122420**  
 (Continued)

**Lab Sample ID: 320-68396-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
R-PSDA	0.17		0.071		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-INFLUENT-114-123020**

**Lab Sample ID: 320-68396-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	19		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.5		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.3		0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.37		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.85		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	3.0		0.016		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	96		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	27		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	7.6		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	2.0		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	9.7		0.62		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.97		0.072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	1.0		0.071		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDCA	0.017		0.017		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-EFFLUENT-114-123020**

**Lab Sample ID: 320-68396-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PMPA	0.64		0.62		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-RAIN-EQBLK-123020**

**Lab Sample ID: 320-68396-5**

No Detections.

**Client Sample ID: SEEP-C-EQBLK-123020**

**Lab Sample ID: 320-68396-6**

No Detections.

**Client Sample ID: SEEP-C-FBLK-123020**

**Lab Sample ID: 320-68396-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-4-122420**

**Lab Sample ID: 320-68396-1**

Date Collected: 12/24/20 15:22

Matrix: Water

Date Received: 12/31/20 10:20

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>HFPO-DA</b>	<b>20</b>		0.081		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>Hydro-EVE Acid</b>	<b>1.6</b>		0.014		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>Hydrolyzed PSDA</b>	<b>1.5</b>		0.038		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>Hydro-PS Acid</b>	<b>0.46</b>		0.0061		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>NVHOS</b>	<b>0.98</b>		0.015		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PEPA</b>	<b>3.1</b>		0.016		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PES</b>	<b>0.0068</b>		0.0067		ug/L		01/05/21 04:07	01/05/21 17:28	1
PFECA B	<0.027		0.027		ug/L		01/05/21 04:07	01/05/21 17:28	1
PFECA G	<0.048		0.048		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PFMOAA</b>	<b>110</b>		0.080		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PFO2HxA</b>	<b>31</b>		0.027		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PFO3OA</b>	<b>8.0</b>		0.039		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PFO4DA</b>	<b>2.9</b>		0.059		ug/L		01/05/21 04:07	01/05/21 17:28	1
PFO5DA	<0.078		0.078		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>PMPA</b>	<b>9.5</b>		0.62		ug/L		01/05/21 04:07	01/05/21 17:28	1
PS Acid	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>R-EVE</b>	<b>1.1</b>		0.072		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>R-PSDA</b>	<b>1.0</b>		0.071		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>R-PSDCA</b>	<b>0.017</b>		0.017		ug/L		01/05/21 04:07	01/05/21 17:28	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	112		25 - 150				01/05/21 04:07	01/05/21 17:28	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420**

**Lab Sample ID: 320-68396-2**

Date Collected: 12/24/20 15:22

Matrix: Water

Date Received: 12/31/20 10:20

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>HFPO-DA</b>	<b>3.6</b>		0.081		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>Hydro-EVE Acid</b>	<b>0.28</b>		0.014		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>Hydrolyzed PSDA</b>	<b>0.28</b>		0.038		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>Hydro-PS Acid</b>	<b>0.065</b>		0.0061		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>NVHOS</b>	<b>0.17</b>		0.015		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PEPA</b>	<b>0.56</b>		0.016		ug/L		01/05/21 04:07	01/05/21 17:45	1
PES	<0.0067		0.0067		ug/L		01/05/21 04:07	01/05/21 17:45	1
PFECA B	<0.027		0.027		ug/L		01/05/21 04:07	01/05/21 17:45	1
PFECA G	<0.048		0.048		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PFMOAA</b>	<b>19</b>		0.080		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PFO2HxA</b>	<b>5.5</b>		0.027		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PFO3OA</b>	<b>1.5</b>		0.039		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PFO4DA</b>	<b>0.43</b>		0.059		ug/L		01/05/21 04:07	01/05/21 17:45	1
PFO5DA	<0.078		0.078		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>PMPA</b>	<b>1.7</b>		0.62		ug/L		01/05/21 04:07	01/05/21 17:45	1
PS Acid	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>R-EVE</b>	<b>0.21</b>		0.072		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>R-PSDA</b>	<b>0.17</b>		0.071		ug/L		01/05/21 04:07	01/05/21 17:45	1
R-PSDCA	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 17:45	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	112		25 - 150				01/05/21 04:07	01/05/21 17:45	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-INFLUENT-114-123020**

**Lab Sample ID: 320-68396-3**

Date Collected: 12/30/20 11:00

Matrix: Water

Date Received: 12/31/20 10:20

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>HFPO-DA</b>	<b>19</b>		0.081		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>Hydro-EVE Acid</b>	<b>1.5</b>		0.014		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>Hydrolyzed PSDA</b>	<b>1.3</b>		0.038		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>Hydro-PS Acid</b>	<b>0.37</b>		0.0061		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>NVHOS</b>	<b>0.85</b>		0.015		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PEPA</b>	<b>3.0</b>		0.016		ug/L		01/05/21 04:07	01/05/21 18:03	1
PES	<0.0067		0.0067		ug/L		01/05/21 04:07	01/05/21 18:03	1
PFECA B	<0.027		0.027		ug/L		01/05/21 04:07	01/05/21 18:03	1
PFECA G	<0.048		0.048		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PFMOAA</b>	<b>96</b>		0.080		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PFO2HxA</b>	<b>27</b>		0.027		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PFO3OA</b>	<b>7.6</b>		0.039		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PFO4DA</b>	<b>2.0</b>		0.059		ug/L		01/05/21 04:07	01/05/21 18:03	1
PFO5DA	<0.078		0.078		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>PMPA</b>	<b>9.7</b>		0.62		ug/L		01/05/21 04:07	01/05/21 18:03	1
PS Acid	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>R-EVE</b>	<b>0.97</b>		0.072		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>R-PSDA</b>	<b>1.0</b>		0.071		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>R-PSDCA</b>	<b>0.017</b>		0.017		ug/L		01/05/21 04:07	01/05/21 18:03	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	109		25 - 150				01/05/21 04:07	01/05/21 18:03	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-EFFLUENT-114-123020**

**Lab Sample ID: 320-68396-4**

**Date Collected: 12/30/20 11:00**

**Matrix: Water**

**Date Received: 12/31/20 10:20**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 18:20	1
HFPO-DA	<0.081		0.081		ug/L		01/05/21 04:07	01/05/21 18:20	1
Hydro-EVE Acid	<0.014		0.014		ug/L		01/05/21 04:07	01/05/21 18:20	1
Hydrolyzed PSDA	<0.038		0.038		ug/L		01/05/21 04:07	01/05/21 18:20	1
Hydro-PS Acid	<0.0061		0.0061		ug/L		01/05/21 04:07	01/05/21 18:20	1
NVHOS	<0.015		0.015		ug/L		01/05/21 04:07	01/05/21 18:20	1
PEPA	<0.016		0.016		ug/L		01/05/21 04:07	01/05/21 18:20	1
PES	<0.0067		0.0067		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFECA B	<0.027		0.027		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFECA G	<0.048		0.048		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFMOAA	<0.080		0.080		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFO2HxA	<0.027		0.027		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFO3OA	<0.039		0.039		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFO4DA	<0.059		0.059		ug/L		01/05/21 04:07	01/05/21 18:20	1
PFO5DA	<0.078		0.078		ug/L		01/05/21 04:07	01/05/21 18:20	1
<b>PMPA</b>	<b>0.64</b>		0.62		ug/L		01/05/21 04:07	01/05/21 18:20	1
PS Acid	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 18:20	1
R-EVE	<0.072		0.072		ug/L		01/05/21 04:07	01/05/21 18:20	1
R-PSDA	<0.071		0.071		ug/L		01/05/21 04:07	01/05/21 18:20	1
R-PSDCA	<0.017		0.017		ug/L		01/05/21 04:07	01/05/21 18:20	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	109		25 - 150				01/05/21 04:07	01/05/21 18:20	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-123020**

**Lab Sample ID: 320-68396-5**

Date Collected: 12/30/20 12:45

Matrix: Water

Date Received: 12/31/20 10:20

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
HFPO-DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
NVHOS	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PEPA	<0.010		0.010		ug/L		01/05/21 04:07	01/05/21 18:38	1
PES	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFECA B	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFECA G	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFMOAA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFO2HxA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFO3OA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFO4DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PFO5DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PMPA	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 18:38	1
PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
R-EVE	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
R-PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
R-PSDCA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:38	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	113		25 - 150				01/05/21 04:07	01/05/21 18:38	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-EQBLK-123020**

**Lab Sample ID: 320-68396-6**

**Date Collected: 12/30/20 12:50**

**Matrix: Water**

**Date Received: 12/31/20 10:20**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
HFPO-DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
NVHOS	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PEPA	<0.010		0.010		ug/L		01/05/21 04:07	01/05/21 18:56	1
PES	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFECA B	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFECA G	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFMOAA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFO2HxA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFO3OA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFO4DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PFO5DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PMPA	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 18:56	1
PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
R-EVE	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
R-PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
R-PSDCA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 18:56	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C3 HFPO-DA	109		25 - 150				01/05/21 04:07	01/05/21 18:56	1



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-FBLK-123020**

**Lab Sample ID: 320-68396-7**

**Date Collected: 12/30/20 15:20**

**Matrix: Water**

**Date Received: 12/31/20 10:20**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
HFPO-DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
NVHOS	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PEPA	<0.010		0.010		ug/L		01/05/21 04:07	01/05/21 19:13	1
PES	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFECA B	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFECA G	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFMOAA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFO2HxA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFO3OA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFO4DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PFO5DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PMPA	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 19:13	1
PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
R-EVE	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
R-PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
R-PSDCA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 19:13	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C3 HFPO-DA	103		25 - 150				01/05/21 04:07	01/05/21 19:13	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.010	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.020	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-68396-1	SEEP-C-RAIN-INFLUENT-4-12	112
320-68396-2	SEEP-C-RAIN-EFF_BYSS-4-1 22420	112
320-68396-3	SEEP-C-INFLUENT-114-123020	109
320-68396-4	SEEP-C-EFFLUENT-114-123020	109
320-68396-5	SEEP-C-RAIN-EQBLK-123020	113
320-68396-6	SEEP-C-EQBLK-123020	109
320-68396-7	SEEP-C-FBLK-123020	103
LCS 320-448399/2-A	Lab Control Sample	111
LCSD 320-448399/3-A	Lab Control Sample Dup	105
MB 320-448399/1-A	Method Blank	113

#### Surrogate Legend

HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Lab Sample ID: MB 320-448399/1-A

Matrix: Water

Analysis Batch: 448523

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 448399

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
HFPO-DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
NVHOS	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PEPA	<0.010		0.010		ug/L		01/05/21 04:07	01/05/21 17:10	1
PES	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFECA B	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFECA G	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFMOAA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFO2HxA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFO3OA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFO4DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PFO5DA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PMPA	<0.020		0.020		ug/L		01/05/21 04:07	01/05/21 17:10	1
PS Acid	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
R-EVE	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
R-PSDA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
R-PSDCA	<0.0020		0.0020		ug/L		01/05/21 04:07	01/05/21 17:10	1
Isotope Dilution	MB	MB	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA		%Recovery	25 - 150				01/05/21 04:07	01/05/21 17:10	1

Lab Sample ID: LCS 320-448399/2-A

Matrix: Water

Analysis Batch: 448523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 448399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
HFPO-DA	0.200	0.206		ug/L		103	70 - 130	
Hydro-EVE Acid	0.200	0.215		ug/L		108	70 - 130	
Hydrolyzed PSDA	0.200	0.258		ug/L		129	50 - 150	
Hydro-PS Acid	0.200	0.213		ug/L		107	70 - 130	
NVHOS	0.200	0.221		ug/L		110	70 - 130	
PEPA	0.200	0.197		ug/L		98	70 - 130	
PES	0.200	0.216		ug/L		108	70 - 130	
PFECA B	0.200	0.226		ug/L		113	70 - 130	
PFECA G	0.200	0.195		ug/L		98	70 - 130	
PFMOAA	0.200	0.253		ug/L		127	70 - 130	
PFO2HxA	0.200	0.222		ug/L		111	70 - 130	
PFO3OA	0.200	0.218		ug/L		109	70 - 130	
PFO4DA	0.200	0.197		ug/L		99	50 - 150	
PFO5DA	0.200	0.169		ug/L		84	50 - 150	
PMPA	0.200	0.211		ug/L		106	70 - 130	
PS Acid	0.200	0.222		ug/L		111	70 - 130	
R-EVE	0.200	0.238		ug/L		119	50 - 150	
R-PSDA	0.200	0.244		ug/L		122	50 - 150	
R-PSDCA	0.200	0.213		ug/L		106	70 - 130	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	111		25 - 150

**Lab Sample ID: LCSD 320-448399/3-A**  
**Matrix: Water**  
**Analysis Batch: 448523**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 448399**

<b>Analyte</b>	<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec.</b>	<b>RPD</b>	<b>RPD</b>	<b>Limit</b>
	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>				<b>Limits</b>	<b>Limits</b>	<b>Limits</b>	
EVE Acid	0.200	0.230		ug/L		115	70 - 130	2	25	
HFPO-DA	0.200	0.213		ug/L		107	70 - 130	4	25	
Hydro-EVE Acid	0.200	0.225		ug/L		112	70 - 130	4	25	
Hydrolyzed PSDA	0.200	0.236		ug/L		118	50 - 150	9	25	
Hydro-PS Acid	0.200	0.221		ug/L		110	70 - 130	3	25	
NVHOS	0.200	0.215		ug/L		107	70 - 130	3	25	
PEPA	0.200	0.202		ug/L		101	70 - 130	3	25	
PES	0.200	0.213		ug/L		107	70 - 130	1	25	
PFECA B	0.200	0.216		ug/L		108	70 - 130	5	25	
PFECA G	0.200	0.187		ug/L		93	70 - 130	4	25	
PFMOAA	0.200	0.246		ug/L		123	70 - 130	3	25	
PFO2HxA	0.200	0.216		ug/L		108	70 - 130	2	25	
PFO3OA	0.200	0.221		ug/L		111	70 - 130	1	25	
PFO4DA	0.200	0.224		ug/L		112	50 - 150	13	25	
PFO5DA	0.200	0.177		ug/L		88	50 - 150	5	25	
PMPA	0.200	0.203		ug/L		101	70 - 130	4	25	
PS Acid	0.200	0.218		ug/L		109	70 - 130	2	25	
R-EVE	0.200	0.230		ug/L		115	50 - 150	4	25	
R-PSDA	0.200	0.226		ug/L		113	50 - 150	8	25	
R-PSDCA	0.200	0.216		ug/L		108	70 - 130	1	25	

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	105		25 - 150

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## LCMS

### Prep Batch: 448399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Total/NA	Water	PFAS Prep	
320-68396-2	SEEP-C-RAIN-EFF_BYSPSS-4-122420	Total/NA	Water	PFAS Prep	
320-68396-3	SEEP-C-INFLUENT-114-123020	Total/NA	Water	PFAS Prep	
320-68396-4	SEEP-C-EFFLUENT-114-123020	Total/NA	Water	PFAS Prep	
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Total/NA	Water	PFAS Prep	
320-68396-6	SEEP-C-EQBLK-123020	Total/NA	Water	PFAS Prep	
320-68396-7	SEEP-C-FBLK-123020	Total/NA	Water	PFAS Prep	
MB 320-448399/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-448399/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-448399/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 448523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Total/NA	Water	Chemours (TB3+)	448399
320-68396-2	SEEP-C-RAIN-EFF_BYSPSS-4-122420	Total/NA	Water	Chemours (TB3+)	448399
320-68396-3	SEEP-C-INFLUENT-114-123020	Total/NA	Water	Chemours (TB3+)	448399
320-68396-4	SEEP-C-EFFLUENT-114-123020	Total/NA	Water	Chemours (TB3+)	448399
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Total/NA	Water	Chemours (TB3+)	448399
320-68396-6	SEEP-C-EQBLK-123020	Total/NA	Water	Chemours (TB3+)	448399
320-68396-7	SEEP-C-FBLK-123020	Total/NA	Water	Chemours (TB3+)	448399
MB 320-448399/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	448399
LCS 320-448399/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	448399
LCSD 320-448399/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	448399



# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-4-122420**

**Lab Sample ID: 320-68396-1**

Date Collected: 12/24/20 15:22

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 17:28	JD1	TAL SAC

**Client Sample ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420**

**Lab Sample ID: 320-68396-2**

Date Collected: 12/24/20 15:22

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 17:45	JD1	TAL SAC

**Client Sample ID: SEEP-C-INFLUENT-114-123020**

**Lab Sample ID: 320-68396-3**

Date Collected: 12/30/20 11:00

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 18:03	JD1	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-114-123020**

**Lab Sample ID: 320-68396-4**

Date Collected: 12/30/20 11:00

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 18:20	JD1	TAL SAC

**Client Sample ID: SEEP-C-RAIN-EQBLK-123020**

**Lab Sample ID: 320-68396-5**

Date Collected: 12/30/20 12:45

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 18:38	JD1	TAL SAC

**Client Sample ID: SEEP-C-EQBLK-123020**

**Lab Sample ID: 320-68396-6**

Date Collected: 12/30/20 12:50

Matrix: Water

Date Received: 12/31/20 10:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 18:56	JD1	TAL SAC

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

**Client Sample ID: SEEP-C-FBLK-123020**

**Lab Sample ID: 320-68396-7**

**Date Collected: 12/30/20 15:20**

**Matrix: Water**

**Date Received: 12/31/20 10:20**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 19:13	JD1	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-448399/1-A**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 17:10	JD1	TAL SAC

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-448399/2-A**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 19:31	JD1	TAL SAC

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-448399/3-A**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	448399	01/05/21 04:07	NSS	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			448523	01/05/21 19:48	JD1	TAL SAC

## Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20 *
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

- Client = Client derived Standard Operating Procedure
- TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

- TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68396-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	Water	12/24/20 15:22	12/31/20 10:20	
320-68396-2	SEEP-C-RAIN-EFF_BYSS-4-122420	Water	12/24/20 15:22	12/31/20 10:20	
320-68396-3	SEEP-C-INFLUENT-114-123020	Water	12/30/20 11:00	12/31/20 10:20	
320-68396-4	SEEP-C-EFFLUENT-114-123020	Water	12/30/20 11:00	12/31/20 10:20	
320-68396-5	SEEP-C-RAIN-EQBLK-123020	Water	12/30/20 12:45	12/31/20 10:20	
320-68396-6	SEEP-C-EQBLK-123020	Water	12/30/20 12:50	12/31/20 10:20	
320-68396-7	SEEP-C-FBLK-123020	Water	12/30/20 15:20	12/31/20 10:20	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:11 Lab File ID: 2020.12.15\_TB3\_ICAL\_004.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.33	Assign Peak	contreras e	12/16/20 09:20
R-EVE	6.87	Assign Peak	contreras e	12/16/20 09:20
R-PSDA	6.95	Assign Peak	contreras e	12/16/20 09:21
Hydrolyzed PSDA	7.03	Assign Peak	contreras e	12/16/20 09:21
PMPA	7.06	Incomplete Integration	contreras e	12/16/20 09:21
NVHOS	7.58	Baseline	contreras e	12/16/20 09:21
PFO2HxA	8.16	Baseline	contreras e	12/16/20 09:21
PFECA B	9.30	Baseline	contreras e	12/16/20 09:22
PFO3OA	9.54	Baseline	contreras e	12/16/20 09:22
HFPO-DA	9.65	Baseline	contreras e	12/16/20 09:22



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:29 Lab File ID: 2020.12.15\_TB3\_ICAL\_005.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.82	Assign Peak	contreras e	12/16/20 09:23
R-EVE	6.67	Assign Peak	contreras e	12/16/20 09:23
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:23
Hydrolyzed PSDA	6.87	Assign Peak	contreras e	12/16/20 09:23
PMPA	6.89	Baseline	contreras e	12/16/20 09:23
PFO2HxA	8.10	Baseline	contreras e	12/16/20 09:23
PFO5DA	10.87	Baseline	contreras e	12/16/20 09:23

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:47 Lab File ID: 2020.12.15\_TB3\_ICAL\_006.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.72	Assign Peak	contreras e	12/16/20 09:24
R-EVE	6.62	Assign Peak	contreras e	12/16/20 09:24
R-PSDA	6.72	Assign Peak	contreras e	12/16/20 09:24
Hydrolyzed PSDA	6.82	Assign Peak	contreras e	12/16/20 09:24
PMPA	6.87	Incomplete Integration	contreras e	12/16/20 09:24
NVHOS	7.46	Baseline	contreras e	12/16/20 09:24
PFO2HxA	8.09	Baseline	contreras e	12/16/20 09:24

Lab Sample ID: IC 320-442814/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:04 Lab File ID: 2020.12.15\_TB3\_ICAL\_007.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.79	Assign Peak	contreras e	12/16/20 09:25
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:25
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:25
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:25
NVHOS	7.47	Baseline	contreras e	12/16/20 09:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:22 Lab File ID: 2020.12.15\_TB3\_ICAL\_008.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.80	Assign Peak	contreras e	12/16/20 09:37
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:44
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:37
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:37
NVHOS	7.47	Baseline	contreras e	12/16/20 09:37
PFO2HxA	8.09	Baseline	contreras e	12/16/20 09:37

Lab Sample ID: IC 320-442814/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:39 Lab File ID: 2020.12.15\_TB3\_ICAL\_009.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.68	Assign Peak	contreras e	12/16/20 09:38
R-EVE	6.60	Assign Peak	contreras e	12/16/20 09:44
R-PSDA	6.70	Assign Peak	contreras e	12/16/20 09:38
Hydrolyzed PSDA	6.81	Assign Peak	contreras e	12/16/20 09:38
PMPA	6.85	Incomplete Integration	contreras e	12/16/20 09:38
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:38
PFO2HxA	8.08	Baseline	contreras e	12/16/20 09:38

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:57 Lab File ID: 2020.12.15\_TB3\_ICAL\_010.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.79	Assign Peak	contreras e	12/16/20 09:39
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.75	Assign Peak	contreras e	12/16/20 09:39
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:39
PMPA	6.89	Incomplete Integration	contreras e	12/16/20 09:39
NVHOS	7.46	Incomplete Integration	contreras e	12/16/20 09:39

Lab Sample ID: IC 320-442814/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 22:15 Lab File ID: 2020.12.15\_TB3\_ICAL\_011.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.86	Assign Peak	contreras e	12/16/20 09:40
R-EVE	6.70	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.78	Assign Peak	contreras e	12/16/20 09:40
Hydrolyzed PSDA	6.89	Assign Peak	contreras e	12/16/20 09:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 22:50 Lab File ID: 2020.12.15\_TB3\_ICAL\_013.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.68	Assign Peak	contreras e	12/16/20 09:40
R-EVE	6.60	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.70	Assign Peak	contreras e	12/16/20 09:40
Hydrolyzed PSDA	6.81	Assign Peak	contreras e	12/16/20 09:40
PMPA	6.85	Incomplete Integration	contreras e	12/16/20 09:41
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:41

Lab Sample ID: IC 320-442814/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 23:07 Lab File ID: 2020.12.15\_TB3\_ICAL\_014.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.72	Assign Peak	contreras e	12/16/20 09:41
R-EVE	6.61	Assign Peak	contreras e	12/16/20 09:46
R-PSDA	6.71	Assign Peak	contreras e	12/16/20 09:41
Hydrolyzed PSDA	6.82	Assign Peak	contreras e	12/16/20 09:41
PMPA	6.87	Incomplete Integration	contreras e	12/16/20 09:41
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: ICV 320-442814/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 23:43 Lab File ID: 2020.12.15\_TB3\_ICAL\_016.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.31	Assign Peak	contreras e	12/16/20 10:25
R-EVE	6.87	Assign Peak	contreras e	12/16/20 10:25
R-PSDA	6.95	Assign Peak	contreras e	12/16/20 10:25
Hydrolyzed PSDA	7.03	Assign Peak	contreras e	12/16/20 10:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 448523

Lab Sample ID: CCV 320-448523/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/05/21 16:35 Lab File ID: 2021.01.05\_A7\_TB3\_B\_018.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.66	Peak assignment corrected	dadunj	01/06/21 09:08
R-EVE	6.66	Baseline	dadunj	01/06/21 09:09
R-PSDA	6.77	Baseline	dadunj	01/06/21 09:09
Hydrolyzed PSDA	6.89	Baseline	dadunj	01/06/21 09:09
PMPA	6.90	Baseline	dadunj	01/06/21 09:09
NVHOS	7.53	Baseline	dadunj	01/06/21 09:09
PEPA	8.84	Baseline	dadunj	01/06/21 09:09

Lab Sample ID: MB 320-448399/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/05/21 17:10 Lab File ID: 2021.01.05\_A7\_TB3\_B\_020.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	9.71	Peak assignment corrected	dadunj	01/06/21 09:10

Lab Sample ID: 320-68396-1 Client Sample ID: SEEP-C-RAIN-INFLUENT-4-122420

Date Analyzed: 01/05/21 17:28 Lab File ID: 2021.01.05\_A7\_TB3\_B\_021.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.70	Split Peak	dadunj	01/06/21 09:10
R-PSDA	6.81	Baseline	dadunj	01/06/21 09:10
PMPA	6.90	Baseline	dadunj	01/06/21 09:11
Hydrolyzed PSDA	6.91	Baseline	dadunj	01/06/21 09:10
PES	9.14	Unspecified	dadunj	01/06/21 10:29



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 448523

Lab Sample ID: 320-68396-2 Client Sample ID: SEEP-C-RAIN-EFF\_BYSS-4-122420

Date Analyzed: 01/05/21 17:45 Lab File ID: 2021.01.05\_A7\_TB3\_B\_022.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.73	Baseline	dadunj	01/06/21 09:12
R-PSDA	6.83	Baseline	dadunj	01/06/21 09:12
PMPA	6.92	Baseline	dadunj	01/06/21 09:12
NVHOS	7.54	Baseline	dadunj	01/06/21 09:12
R-PSDCA	10.09	Baseline	dadunj	01/06/21 09:12

Lab Sample ID: 320-68396-3 Client Sample ID: SEEP-C-INFLUENT-114-123020

Date Analyzed: 01/05/21 18:03 Lab File ID: 2021.01.05\_A7\_TB3\_B\_023.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.58	Peak assignment corrected	dadunj	01/06/21 10:28
R-EVE	6.61	Baseline	dadunj	01/06/21 10:28
R-PSDA	6.73	Baseline	dadunj	01/06/21 10:28
Hydrolyzed PSDA	6.85	Baseline	dadunj	01/06/21 10:28
PMPA	6.86	Baseline	dadunj	01/06/21 10:28
NVHOS	7.51	Baseline	dadunj	01/06/21 10:28
PES	9.16	Baseline	dadunj	01/06/21 10:29
R-PSDCA	10.09	Baseline	dadunj	01/06/21 10:30

Lab Sample ID: 320-68396-4 Client Sample ID: SEEP-C-EFFLUENT-114-123020

Date Analyzed: 01/05/21 18:20 Lab File ID: 2021.01.05\_A7\_TB3\_B\_024.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.66	Assign Peak	dadunj	01/06/21 10:30

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 448523

Lab Sample ID: 320-68396-5 Client Sample ID: SEEP-C-RAIN-EQBLK-123020

Date Analyzed: 01/05/21 18:38 Lab File ID: 2021.01.05\_A7\_TB3\_B\_025.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.68	Assign Peak	dadunj	01/06/21 10:31
HFPO-DA	9.73	Assign Peak	dadunj	01/06/21 10:31

Lab Sample ID: 320-68396-6 Client Sample ID: SEEP-C-EQBLK-123020

Date Analyzed: 01/05/21 18:56 Lab File ID: 2021.01.05\_A7\_TB3\_B\_026.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.68	Assign Peak	dadunj	01/06/21 10:32
HFPO-DA	9.72	Assign Peak	dadunj	01/06/21 10:32

Lab Sample ID: 320-68396-7 Client Sample ID: SEEP-C-FBLK-123020

Date Analyzed: 01/05/21 19:13 Lab File ID: 2021.01.05\_A7\_TB3\_B\_027.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.69	Assign Peak	dadunj	01/06/21 10:37
13C3 HFPO-DA	9.71	Assign Peak	dadunj	01/06/21 10:37

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 448523

Lab Sample ID: LCS 320-448399/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/05/21 19:31 Lab File ID: 2021.01.05\_A7\_TB3\_B\_028.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.58	Peak assignment corrected	dadunj	01/06/21 11:01
R-EVE	6.62	Baseline	dadunj	01/06/21 11:01
R-PSDA	6.73	Baseline	dadunj	01/06/21 11:01
Hydrolyzed PSDA	6.86	Baseline	dadunj	01/06/21 11:01
PMPA	6.87	Baseline	dadunj	01/06/21 11:01
NVHOS	7.51	Baseline	dadunj	01/06/21 11:01
13C3 HFPO-DA	9.71	Baseline	dadunj	01/06/21 11:02

Lab Sample ID: LCSD 320-448399/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/05/21 19:48 Lab File ID: 2021.01.05\_A7\_TB3\_B\_029.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.58	Peak assignment corrected	dadunj	01/06/21 11:13
R-EVE	6.61	Baseline	dadunj	01/06/21 11:13
R-PSDA	6.73	Baseline	dadunj	01/06/21 11:13
Hydrolyzed PSDA	6.85	Baseline	dadunj	01/06/21 11:13
PMPA	6.86	Baseline	dadunj	01/06/21 11:14
NVHOS	7.51	Baseline	dadunj	01/06/21 11:14

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 448523

Lab Sample ID: CCV 320-448523/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/05/21 20:24 Lab File ID: 2021.01.05\_A7\_TB3\_B\_031.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.59	Peak assignment corrected	dadunj	01/06/21 11:50
R-EVE	6.61	Baseline	dadunj	01/06/21 11:50
R-PSDA	6.72	Baseline	dadunj	01/06/21 11:50
Hydrolyzed PSDA	6.85	Baseline	dadunj	01/06/21 11:50
PMPA	6.86	Baseline	dadunj	01/06/21 11:50
NVHOS	7.50	Baseline	dadunj	01/06/21 11:50
13C3 HFPO-DA	9.71	Baseline	dadunj	01/06/21 11:50
13C4 PFHpA	10.12	Baseline	dadunj	01/06/21 11:50

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00016</b>	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLICV_00044</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_ICVSP_00014	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00052</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFM0AA	0.001 ug/L
		PFO2HxA	0.001 ug/L					
		PFO30A	0.001 ug/L					
		PFO4DA	0.001 ug/L					
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C4 PFHPA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHPA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00037</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
							PFO3OA	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHFA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00042</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
		PFO2HxA	0.0025 ug/L					
		PFO30A	0.0025 ug/L					
		PFO4DA	0.0025 ug/L					
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA 00001	100 uL	PFO5DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00042</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
							PFO2HxA	0.005 ug/L
							PFO3OA	0.005 ug/L
							PFO4DA	0.005 ug/L
							PFO5DA	0.005 ug/L
							PMPA	0.005 ug/L
							R-EVE	0.005 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00041</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00051</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
							PFO2HxA	0.025 ug/L
							PFO3OA	0.025 ug/L
		PFO4DA	0.025 ug/L					
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00051</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
							PFO3OA	0.05 ug/L
							PFO4DA	0.05 ug/L
							PFO5DA	0.05 ug/L
							PMPA	0.05 ug/L
							R-EVE	0.05 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL	
...LCM4PFHFA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL	
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
PFO5DA	5 ug/L							
PMPA	5 ug/L							
R-EVE	5 ug/L							
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCTB3_IM2_00011	200 uL	HFPO-DA	50 ug/L
							Perfluoroheptanoic acid	50 ug/L
							PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO30A	50 ug/L
							PFO4DA	50 ug/L
PFO5DA	50 ug/L							
PMPA	50 ug/L							
R-EVE	50 ug/L							
...LCHFPO-DA_00015	07/09/23	WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL	



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFHpA 00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFM0AA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO30A 00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD7_00308	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
					LCM4PFHPA 00029	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C4 PFHpA	0.5 ug/mL
..LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
....LCPFCA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL		
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL		
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL		
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL		
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL		
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL		
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL		
<b>LCTB3_LLSTD7_00331</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L		
							13C4 PFHpA	0.25 ug/L		
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L		
							PS Acid	0.1 ug/L		
							Hydro-PS Acid	0.1 ug/L		
							R-PSDA	0.1 ug/L		
							Hydrolyzed PSDA	0.1 ug/L		
							R-PSDCA	0.1 ug/L		
							EVE Acid	0.1 ug/L		
							Hydro-EVE Acid	0.1 ug/L		
							NVHOS	0.1 ug/L		
							PEPA	0.1 ug/L		
							PES	0.1 ug/L		
							PFECA B	0.1 ug/L		
							PFECA G	0.1 ug/L		
							PFMOAA	0.1 ug/L		
							PFO2HxA	0.1 ug/L		
		PFO3OA	0.1 ug/L							
		PFO4DA	0.1 ug/L							
		PFO5DA	0.1 ug/L							
		PMPA	0.1 ug/L							
		R-EVE	0.1 ug/L							
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L		
							13C4 PFHpA	5 ug/L		
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL		
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL		
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL		
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L		
							PS Acid	5 ug/L		
							Hydro-PS Acid	5 ug/L		
							R-PSDA	5 ug/L		
							Hydrolyzed PSDA	5 ug/L		
							R-PSDCA	5 ug/L		
							EVE Acid	5 ug/L		
							Hydro-EVE Acid	5 ug/L		
							NVHOS	5 ug/L		
							PEPA	5 ug/L		
									PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L	
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL	
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL	
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL	
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL	
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL	
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL	
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL	
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL	
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL	
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL	
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL	
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL	
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL	
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL	
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL	
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL	
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL	
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL	
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL	
<b>LCTB3_LLSTD7_00332</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L	
								13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L	
							PS Acid	0.1 ug/L	
							Hydro-PS Acid	0.1 ug/L	
							R-PSDA	0.1 ug/L	
							Hydrolyzed PSDA	0.1 ug/L	
							R-PSDCA	0.1 ug/L	
							EVE Acid	0.1 ug/L	
							Hydro-EVE Acid	0.1 ug/L	
							NVHOS	0.1 ug/L	
							PEPA	0.1 ug/L	
							PES	0.1 ug/L	
							PFECA B	0.1 ug/L	
							PFECA G	0.1 ug/L	
							PFM0AA	0.1 ug/L	
							PFO2HxA	0.1 ug/L	
		PFO30A	0.1 ug/L						
		PFO4DA	0.1 ug/L						
		PFO5DA	0.1 ug/L						
		PMPA	0.1 ug/L						
		R-EVE	0.1 ug/L						
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L	
							13C4 PFHpA	5 ug/L	
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL	
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL	
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM4PFHPA 00029	01/08/25	Wellington Laboratories, Lot M4PFHPA0120			(Purchased Reagent)		13C4 PFHPA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD8_00040</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	500 uL	HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L
							PFO2HxA	0.25 ug/L
							PFO3OA	0.25 ug/L
							PFO4DA	0.25 ug/L
							PFO5DA	0.25 ug/L
							PMPA	0.25 ug/L
							R-EVE	0.25 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA 00029	01/08/25	Wellington Laboratories, Lot M4PFHFA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpa 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00038</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
		PFO2HxA	0.5 ug/L					
		PFO3OA	0.5 ug/L					
		PFO4DA	0.5 ug/L					
		PFO5DA	0.5 ug/L					
		PMPA	0.5 ug/L					
		R-EVE	0.5 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)	13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_SP_00063</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							DFSA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							MMF	5 ug/L
							MTP	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							PPF Acid	5 ug/L
							R-EVE	5 ug/L
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							DFSA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							MMF	50 ug/L
							MTP	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							PPF Acid	50 ug/L
							R-EVE	50 ug/L
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
...LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
...LCPFMOA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
...LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
...LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPFFA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL

Reagent

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**LCHFPO-DA\_00014**





### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

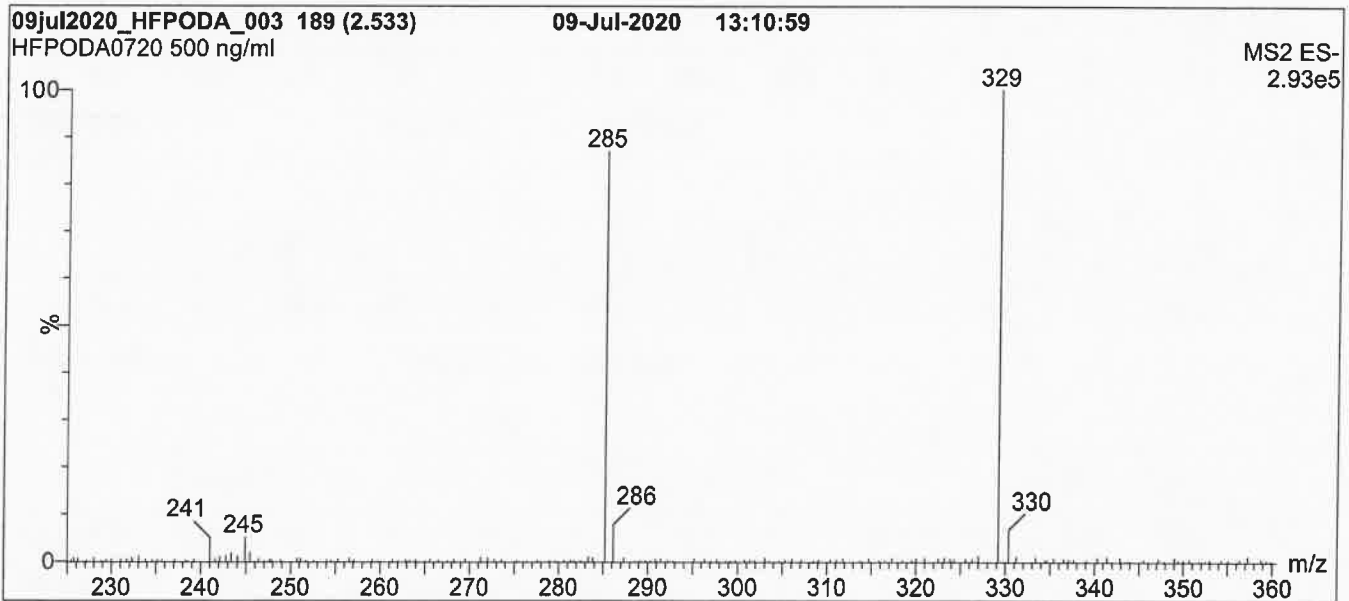
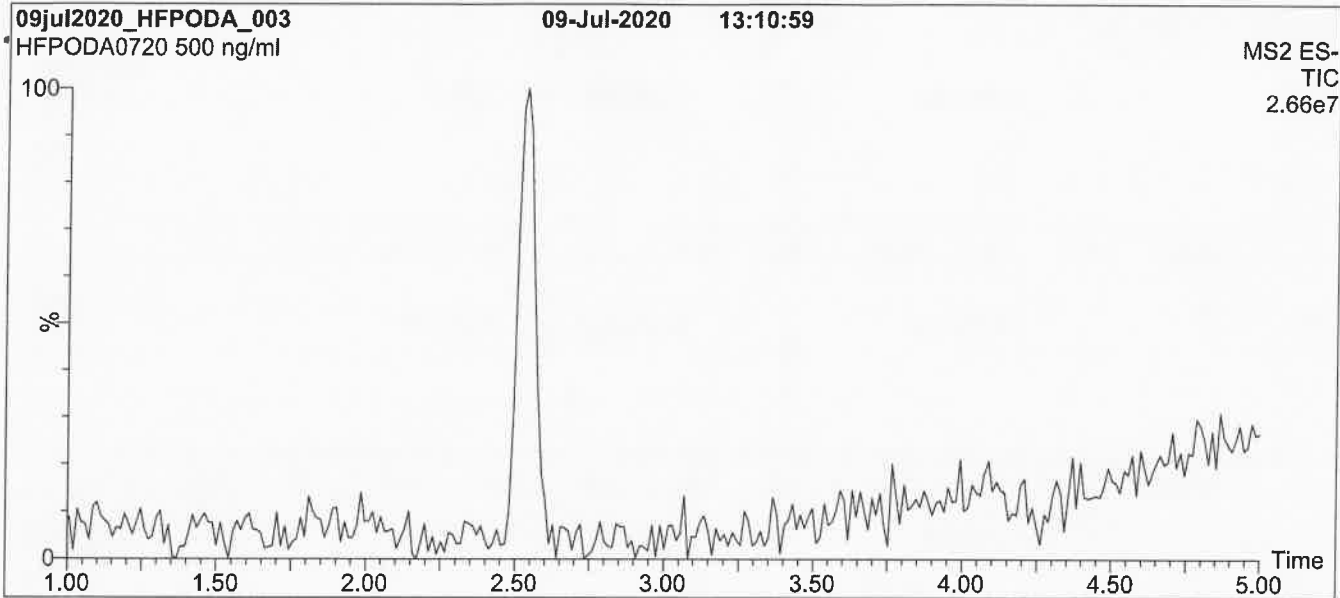
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

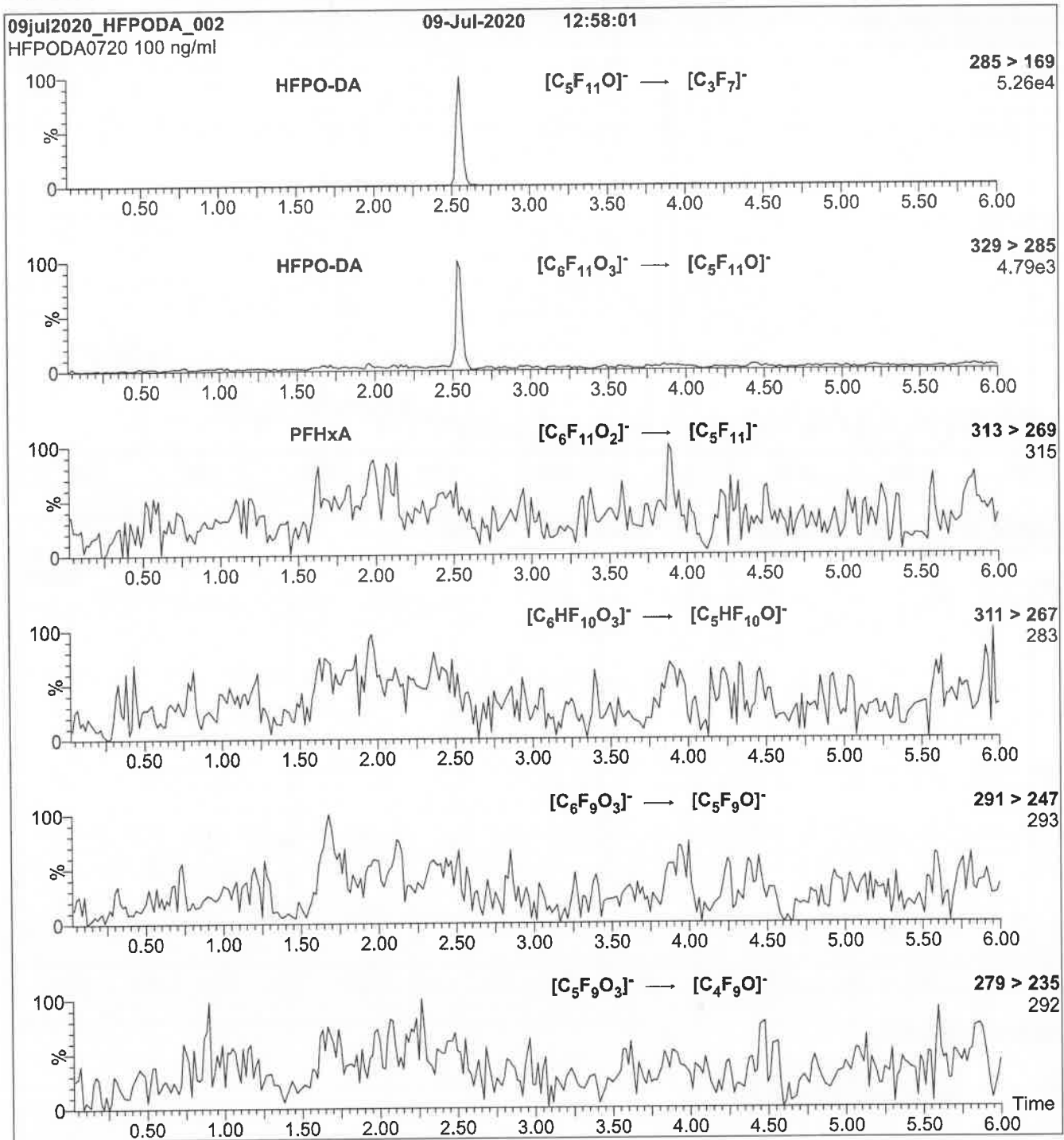
**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

Flow: 300  $\mu$ l/min

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

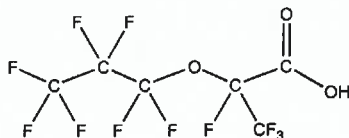
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**LCHFPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>11</sub>F<sub>10</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

**TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

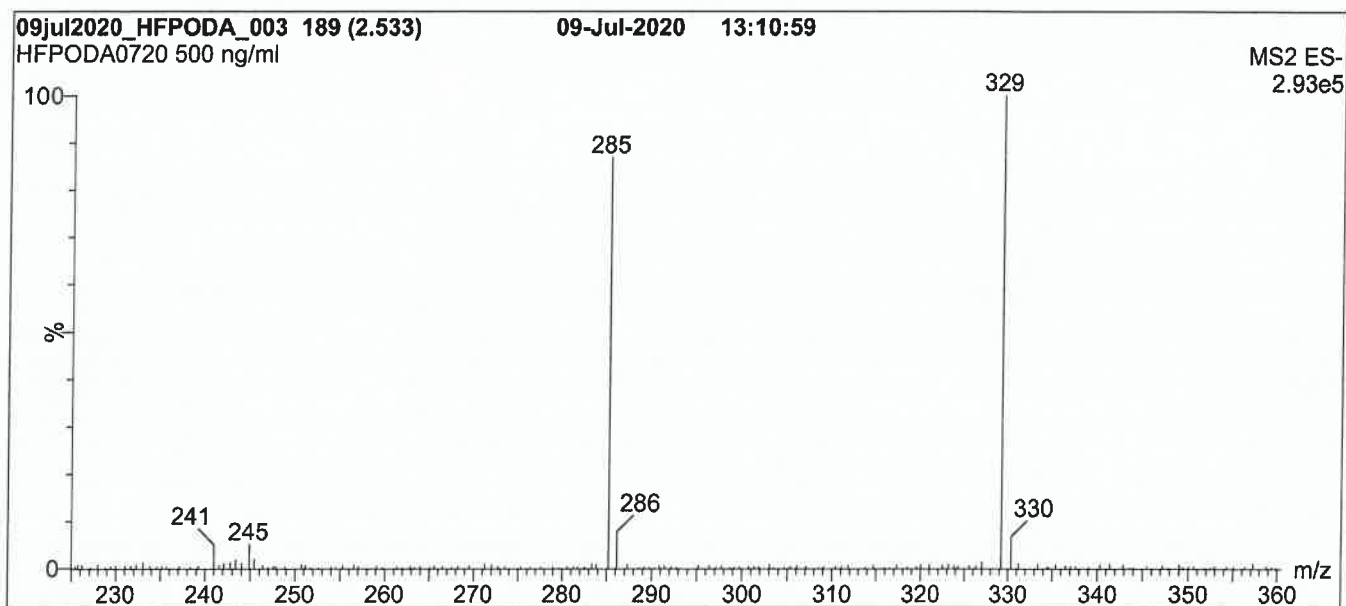
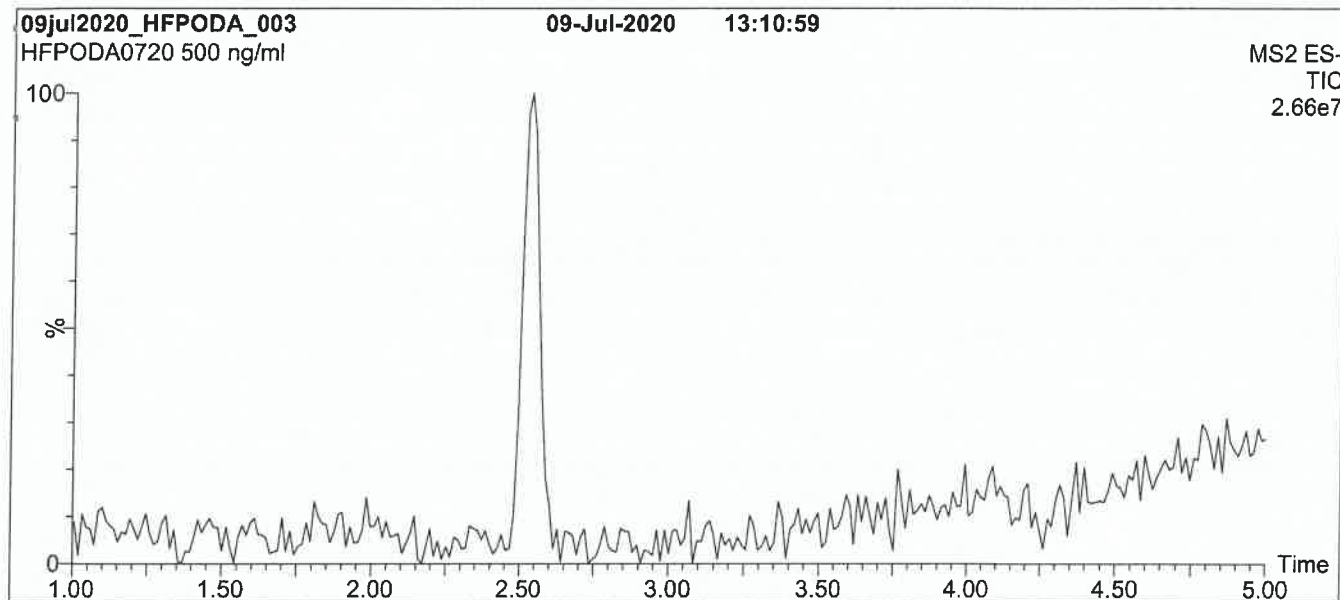
**QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

Flow: 300  $\mu$ l/min

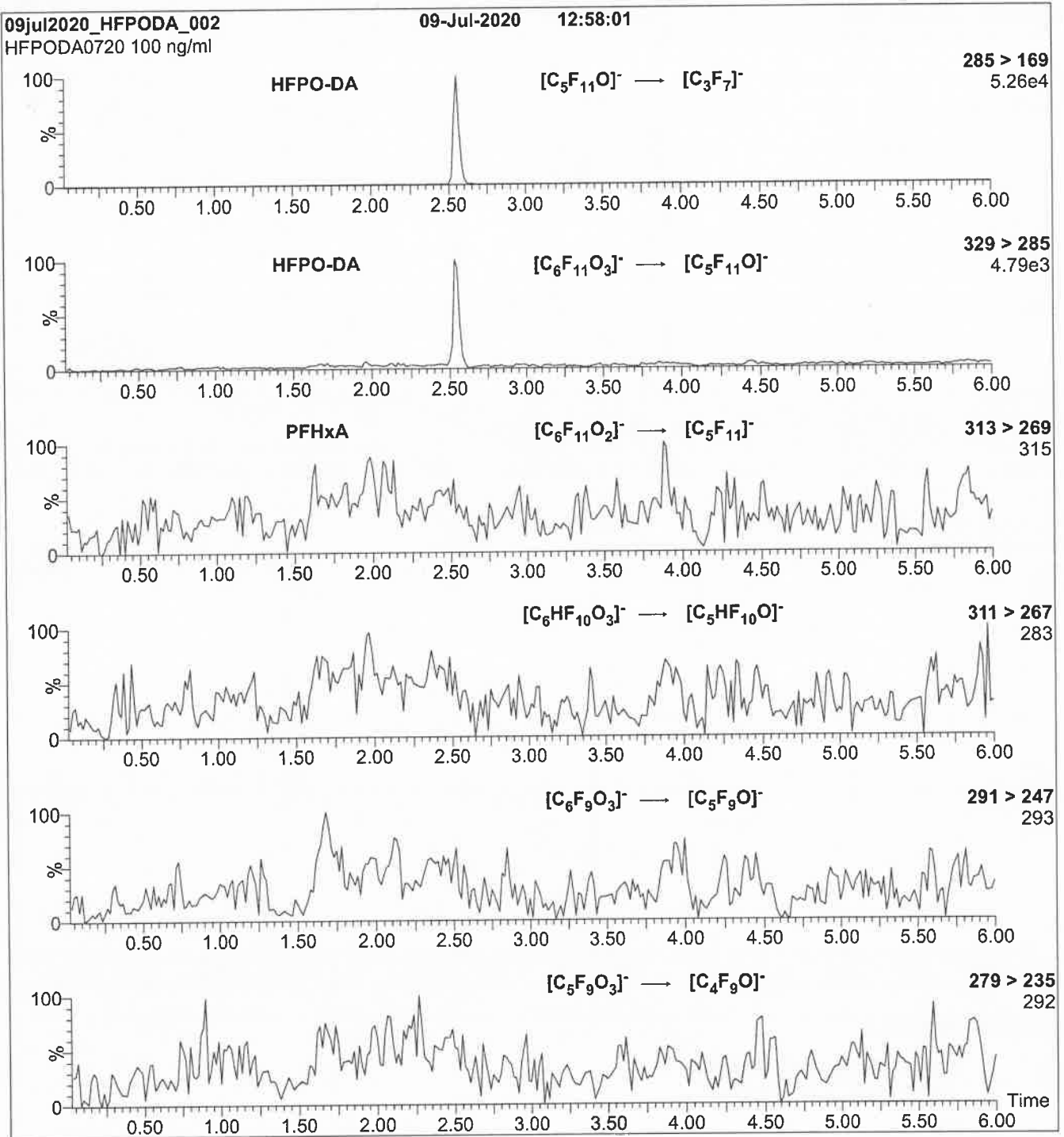
**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000



**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

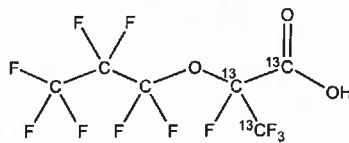
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**LCM3HFPO-DA\_00022**



**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA0520  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



<b>MOLECULAR FORMULA:</b>	<sup>13</sup> C <sub>3</sub> <sup>12</sup> C <sub>3</sub> HF <sub>11</sub> O <sub>3</sub>	<b>MOLECULAR WEIGHT:</b>	333.03
<b>CONCENTRATION:</b>	50.0 ± 2.5 µg/ml	<b>SOLVENT(S):</b>	Methanol
<b>CHEMICAL PURITY:</b>	>98%	<b>ISOTOPIC PURITY:</b>	≥99% <sup>13</sup> C ( <sup>13</sup> C <sub>3</sub> )
<b>LAST TESTED:</b> (mm/dd/yyyy)	05/13/2020		
<b>EXPIRY DATE:</b> (mm/dd/yyyy)	05/13/2023		
<b>RECOMMENDED STORAGE:</b>	Refrigerate ampoule		

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains ~ 1.9% of the linear M3HFPO-DA isomer.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
 B.G. Chittim, General Manager **Date:** 05/22/2020  
(mm/dd/yyyy)

**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

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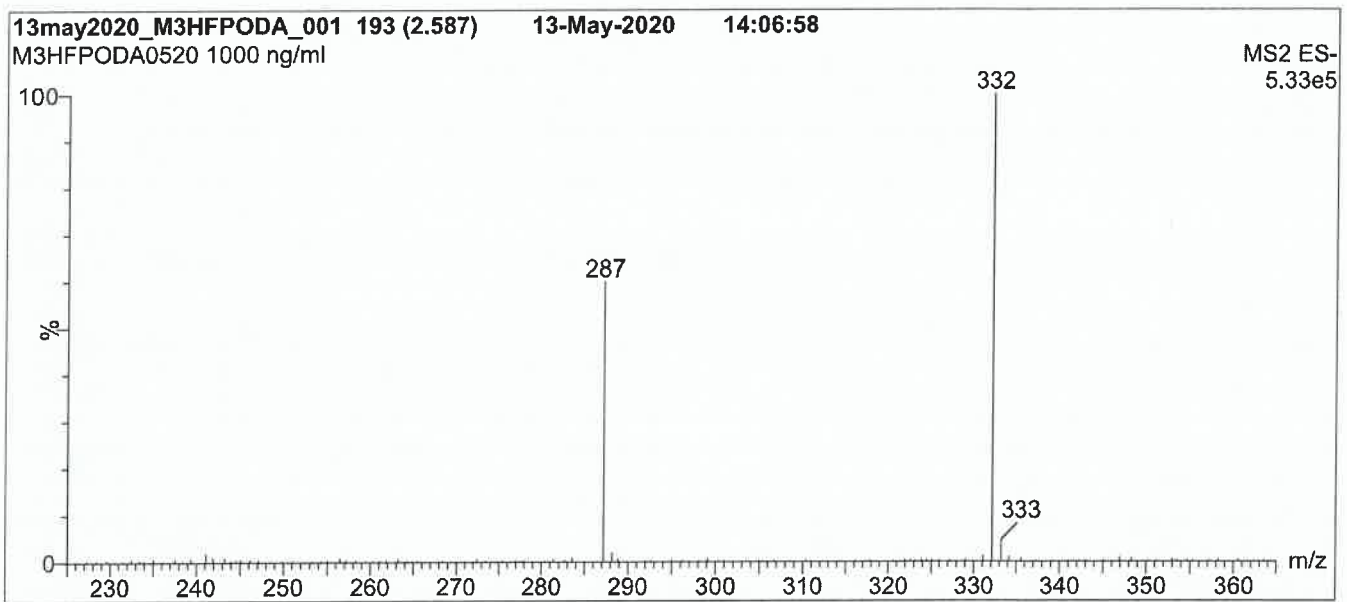
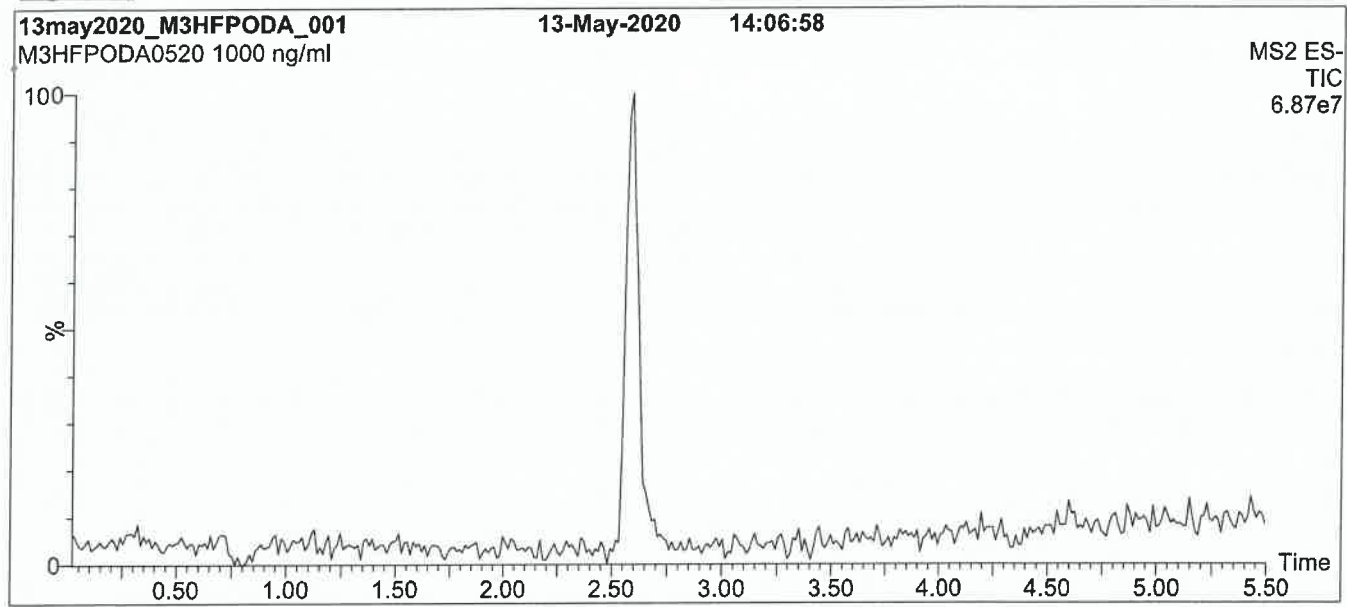
**QUALITY MANAGEMENT:**

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**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

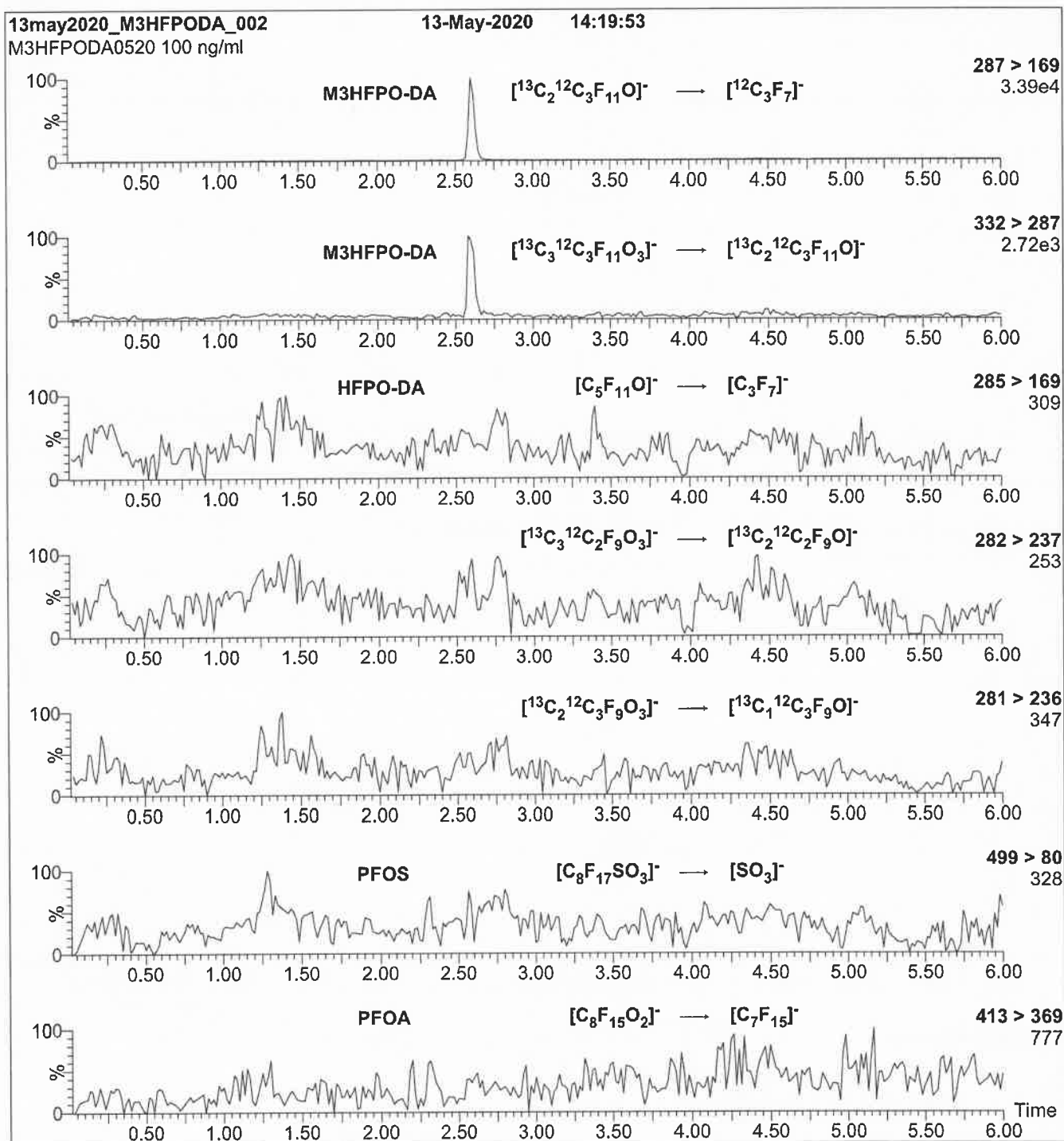
Flow: 300 μl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature (°C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu\text{l}/\text{min}$

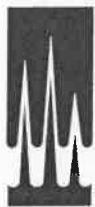
**MS Parameters**

Collision Gas (mbar) =  $3.31\text{e-}3$   
 Collision Energy (eV) = 8

Reagent

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**LCM4PFHPA\_00029**

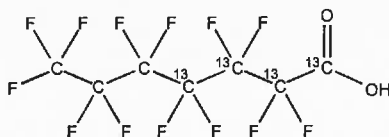


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0120

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)

**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 01/08/2020

**ISOTOPIC PURITY:** ≥99%<sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**EXPIRY DATE:** (mm/dd/yyyy) 01/08/2025

**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 01/24/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com



### **INTENDED USE:**

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where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

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Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

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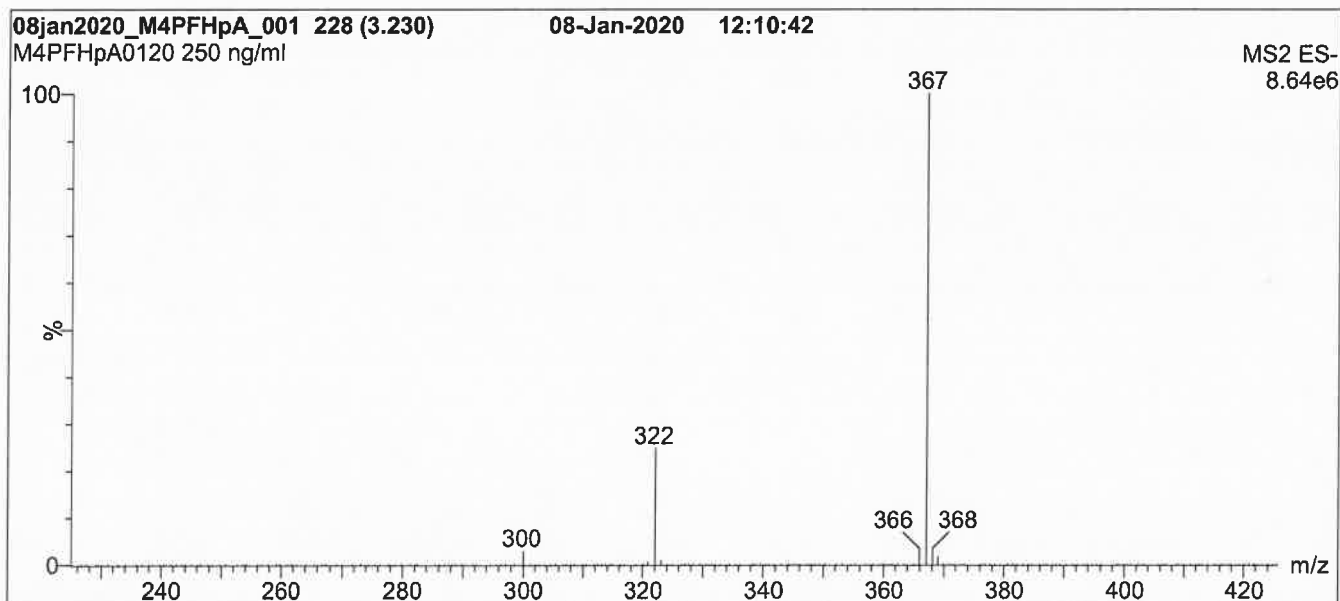
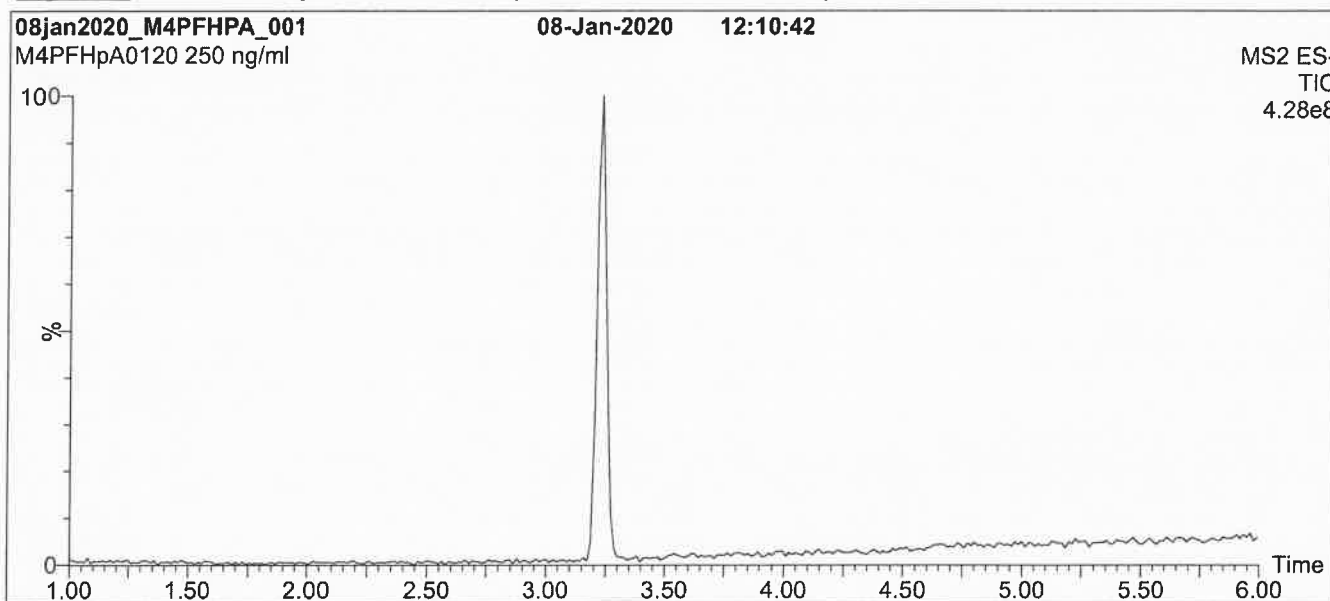
### **QUALITY MANAGEMENT:**

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**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

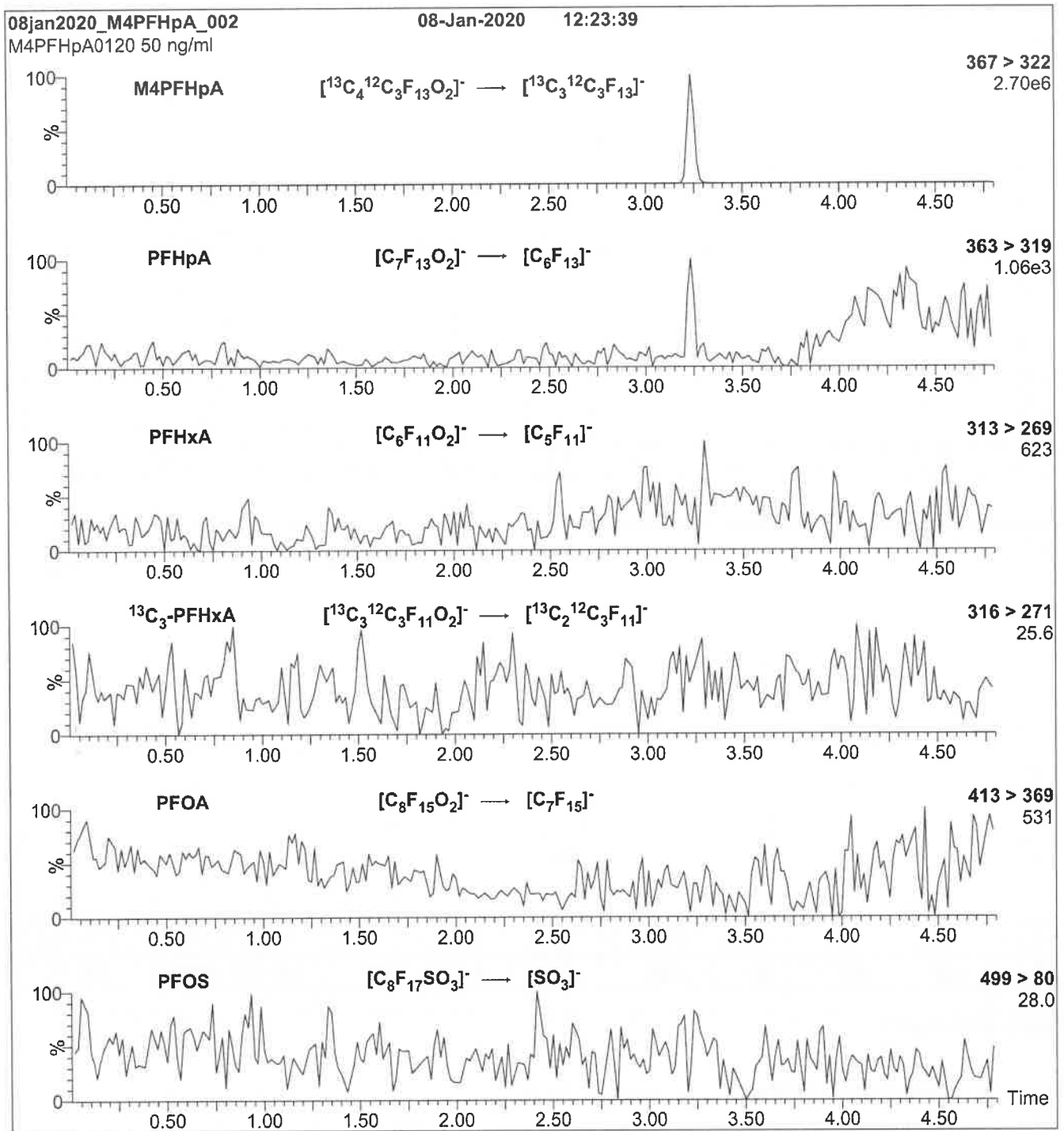
Mobile phase: Gradient  
Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)  
Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (l/hr) = 1000

**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu\text{l}/\text{min}$

**MS Parameters**

Collision Gas (mbar) = 3.49e-3  
Collision Energy (eV) = 8

Reagent

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**LCPFHpA\_00020**



**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{j=1}^n u(y, x_j)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

**TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

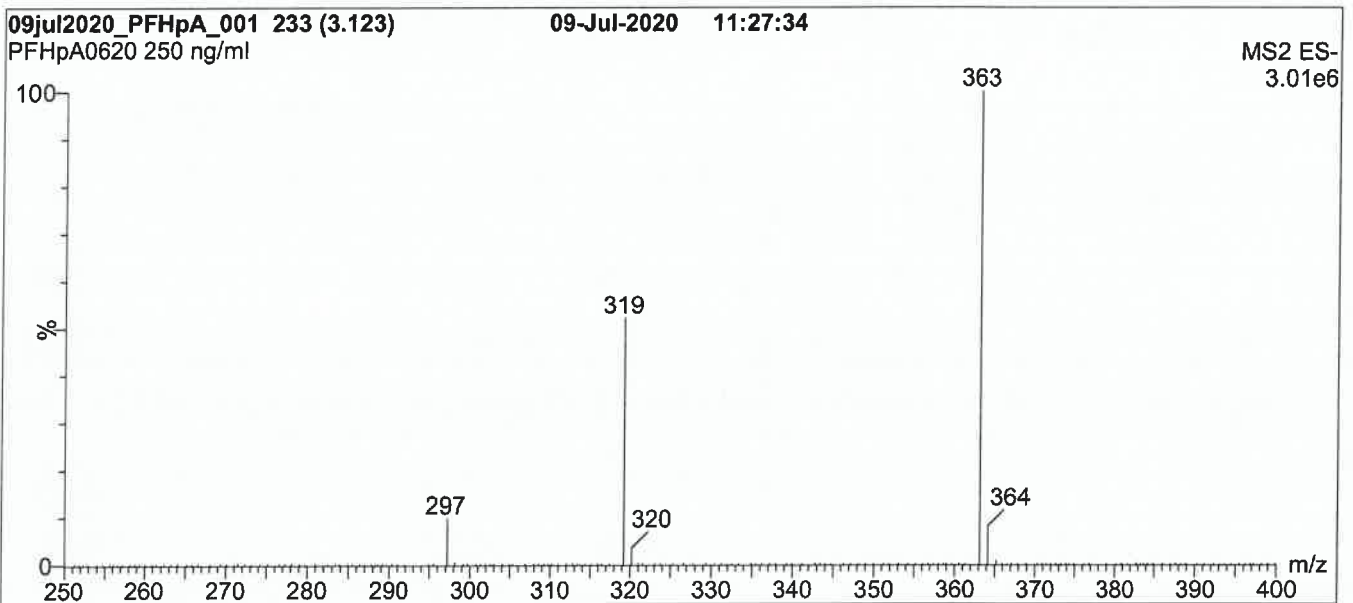
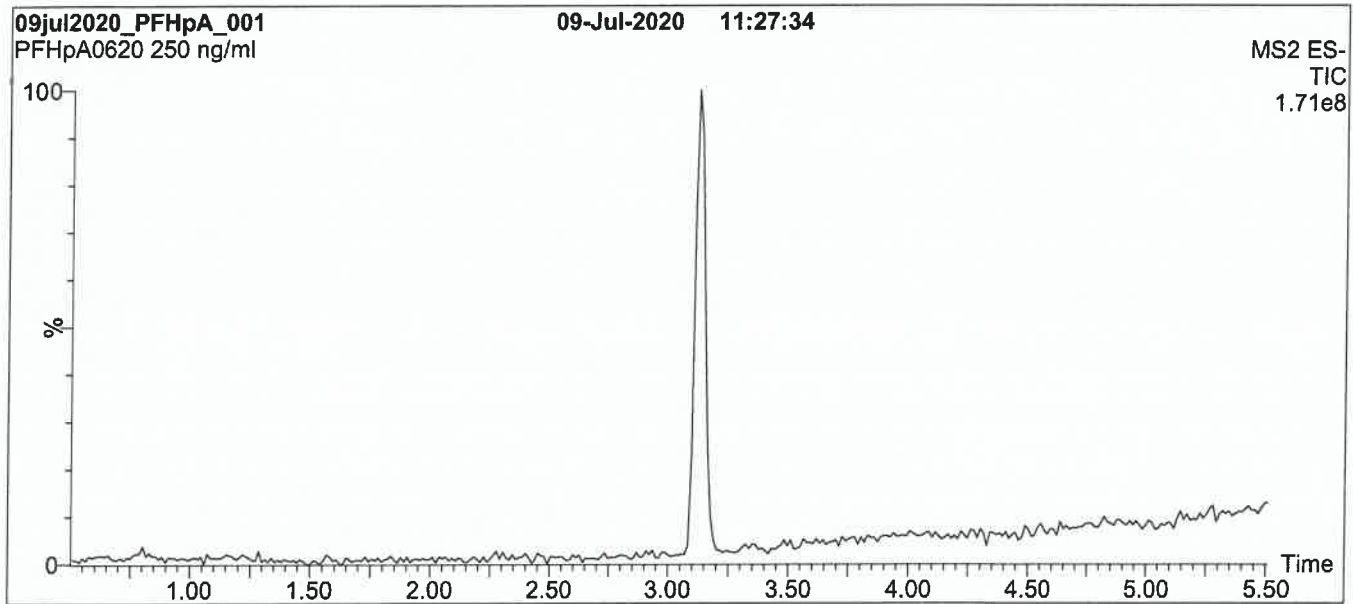
**QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

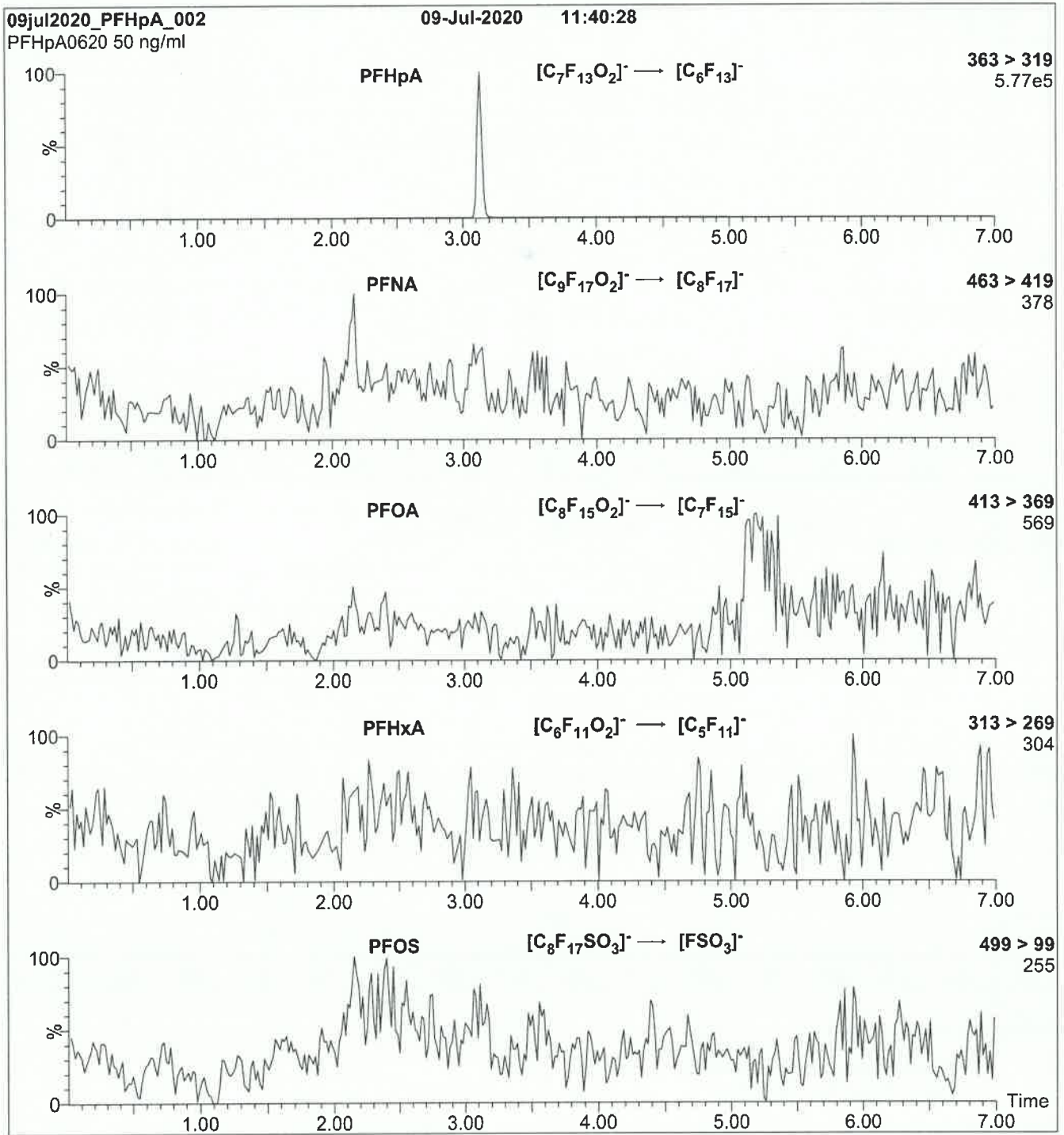
**Flow:** 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature ( $^{\circ}$ C) = 500  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8



# PFAS\_CHEM\_TB3P

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Fluoroproducts Analytical Method -  
Table 3+

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-RAIN-INFLUE NT-4-122420	320-68396-1	112
SEEP-C-RAIN-EFF_BY PSS-4-122420	320-68396-2	112
SEEP-C-INFLUENT-11 4-123020	320-68396-3	109
SEEP-C-EFFLUENT-11 4-123020	320-68396-4	109
SEEP-C-RAIN-EQBLK- 123020	320-68396-5	113
SEEP-C-EQBLK-12302 0	320-68396-6	109
SEEP-C-FBLK-123020	320-68396-7	103
	MB 320-448399/1-A	113
	LCS 320-448399/2-A	111
	LCSD 320-448399/3-A	105

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.01.05\_A7\_TB3\_B\_028.d  
 Lab ID: LCS 320-448399/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.557	111	25-150	
EVE Acid	0.200	0.224	112	70-130	
HFPO-DA	0.200	0.206	103	70-130	
Hydro-EVE Acid	0.200	0.215	108	70-130	
Hydrolyzed PSDA	0.200	0.258	129	50-150	
Hydro-PS Acid	0.200	0.213	107	70-130	
NVHOS	0.200	0.221	110	70-130	
PEPA	0.200	0.197	98	70-130	
PES	0.200	0.216	108	70-130	
PFECA B	0.200	0.226	113	70-130	
PFECA G	0.200	0.195	98	70-130	
PFMOAA	0.200	0.253	127	70-130	
PFO2HxA	0.200	0.222	111	70-130	
PFO3OA	0.200	0.218	109	70-130	
PFO4DA	0.200	0.197	99	50-150	
PFO5DA	0.200	0.169	84	50-150	
PMPA	0.200	0.211	106	70-130	
PS Acid	0.200	0.222	111	70-130	
R-EVE	0.200	0.238	119	50-150	
R-PSDA	0.200	0.244	122	50-150	
R-PSDCA	0.200	0.213	106	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.01.05\_A7\_TB3\_B\_029.d

Lab ID: LCSD 320-448399/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.525	105			25-150	
EVE Acid	0.200	0.230	115	2	25	70-130	
HFPO-DA	0.200	0.213	107	4	25	70-130	
Hydro-EVE Acid	0.200	0.225	112	4	25	70-130	
Hydrolyzed PSDA	0.200	0.236	118	9	25	50-150	
Hydro-PS Acid	0.200	0.221	110	3	25	70-130	
NVHOS	0.200	0.215	107	3	25	70-130	
PEPA	0.200	0.202	101	3	25	70-130	
PES	0.200	0.213	107	1	25	70-130	
PFECA B	0.200	0.216	108	5	25	70-130	
PFECA G	0.200	0.187	93	4	25	70-130	
PFMOAA	0.200	0.246	123	3	25	70-130	
PFO2HxA	0.200	0.216	108	2	25	70-130	
PFO3OA	0.200	0.221	111	1	25	70-130	
PFO4DA	0.200	0.224	112	13	25	50-150	
PFO5DA	0.200	0.177	88	5	25	50-150	
PMPA	0.200	0.203	101	4	25	70-130	
PS Acid	0.200	0.218	109	2	25	70-130	
R-EVE	0.200	0.230	115	4	25	50-150	
R-PSDA	0.200	0.226	113	8	25	50-150	
R-PSDCA	0.200	0.216	108	1	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.01.05\_A7\_TB3\_B\_020.d      Lab Sample ID: MB 320-448399/1-A  
 Matrix: Water      Date Extracted: 01/05/2021 04:07  
 Instrument ID: A7\_N      Date Analyzed: 01/05/2021 17:10  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-RAIN-INFLUENT-4-122420	320-68396-1	2021.01.05_A7_TB3_B_021.d	01/05/2021 17:28
SEEP-C-RAIN-EFF_BYPASS-4-122420	320-68396-2	2021.01.05_A7_TB3_B_022.d	01/05/2021 17:45
SEEP-C-INFLUENT-114-123020	320-68396-3	2021.01.05_A7_TB3_B_023.d	01/05/2021 18:03
SEEP-C-EFFLUENT-114-123020	320-68396-4	2021.01.05_A7_TB3_B_024.d	01/05/2021 18:20
SEEP-C-RAIN-EQBLK-123020	320-68396-5	2021.01.05_A7_TB3_B_025.d	01/05/2021 18:38
SEEP-C-EQBLK-123020	320-68396-6	2021.01.05_A7_TB3_B_026.d	01/05/2021 18:56
SEEP-C-FBLK-123020	320-68396-7	2021.01.05_A7_TB3_B_027.d	01/05/2021 19:13
	LCS 320-448399/2-A	2021.01.05_A7_TB3_B_028.d	01/05/2021 19:31
	LCSD 320-448399/3-A	2021.01.05_A7_TB3_B_029.d	01/05/2021 19:48



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_021.d  
 Lims ID: 320-68396-A-1-A  
 Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 17:28:10 ALS Bottle#: 21 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-1-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 10:29:32 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 10:29:32  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.733	2.943	-0.210	6676896	0.5404		23373		
2 R-EVE	405.00 > 217.00	6.695	6.868	-0.173	26580	0.005290		465		M
3 R-PSDA	440.90 > 241.00	6.809	6.958	-0.149	13014	0.005096		321		M
4 Hydrolyzed PSDA	439.00 > 343.00	6.911	7.054	-0.143	86886	0.007632		1554		M
5 PMPA	229.00 > 185.00	6.898	7.054	-0.156	545866	0.0475		803		M
6 NVHOS	297.00 > 135.00	7.527	7.632	-0.105	78233	0.004887		926		
7 PFO2HxA	245.00 > 85.00	8.167	8.261	-0.094	2247845	0.1540		22240		
8 PEPA	278.90 > 234.90	8.826	8.922	-0.096	147774	0.0156		574		
9 PES	314.90 > 135.00	9.144	9.231	-0.087	2973	0.00003386		81.3		Ma a
11 PFO3OA	310.90 > 85.00	9.603	9.701	-0.098	485345	0.0398		7043		
D 12 13C3 HFPO-DA	287.00 > 169.00	9.714	9.812	-0.098	1374004	0.2788		112	40067	
13 HPFO-DA	285.00 > 169.00	9.714	9.812	-0.098	1.000	617740	0.0988		18040	
14 R-PSDCA	397.00 > 217.00	10.072	10.164	-0.092	9091	0.00008495		219		
16 Hydro-EVE Acid	427.00 > 282.90	10.125	10.217	-0.092	455978	0.007949		9010		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
17 Hydro-PS Acid										
463.00 > 262.90	10.151	10.243	-0.092		82414	0.002307			2051	
20 PFO4DA										
376.90 > 85.00	10.384	10.494	-0.110		194332	0.0144			1907	

**QC Flag Legend**

Processing Flags

Review Flags

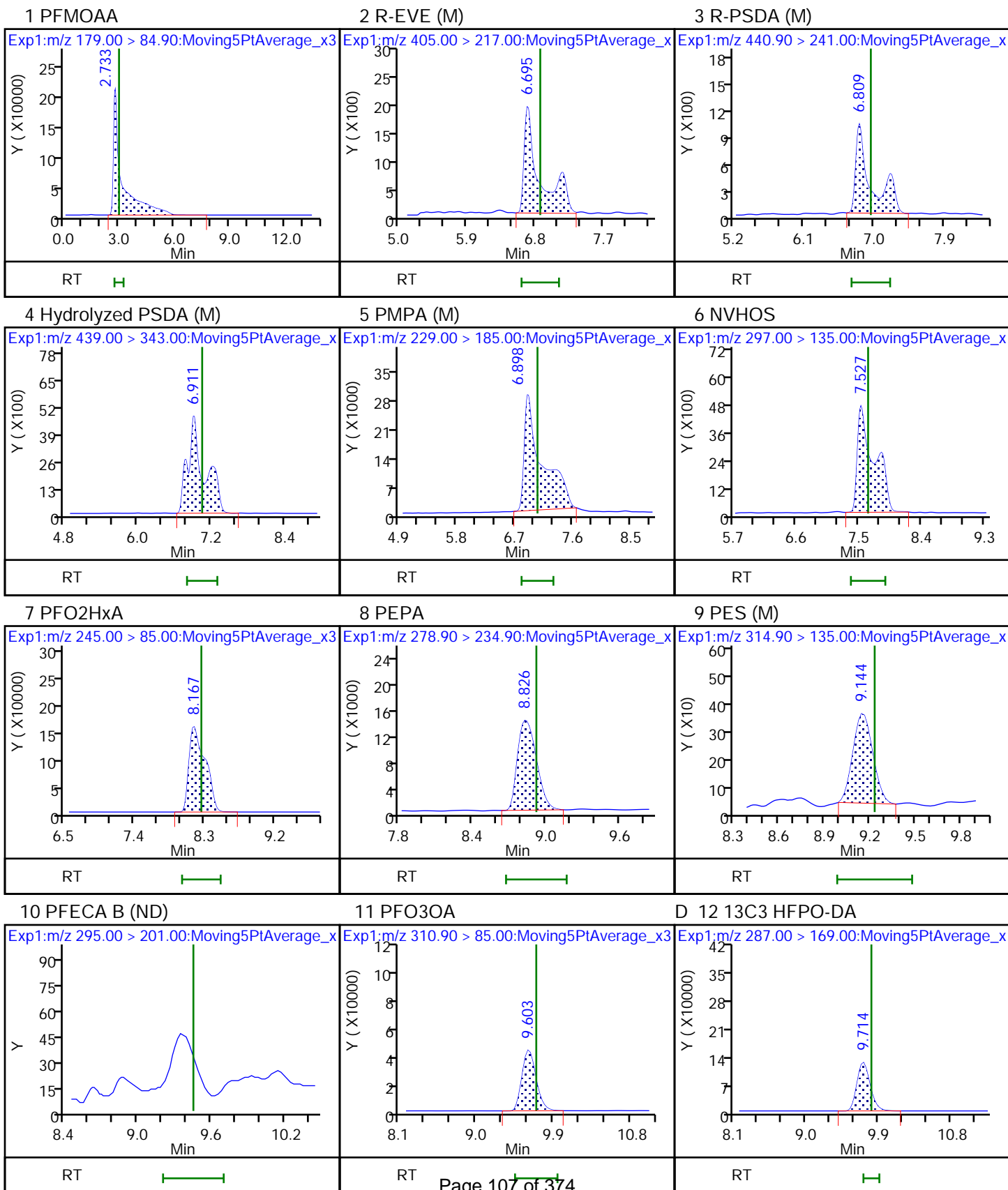
M - Manually Integrated

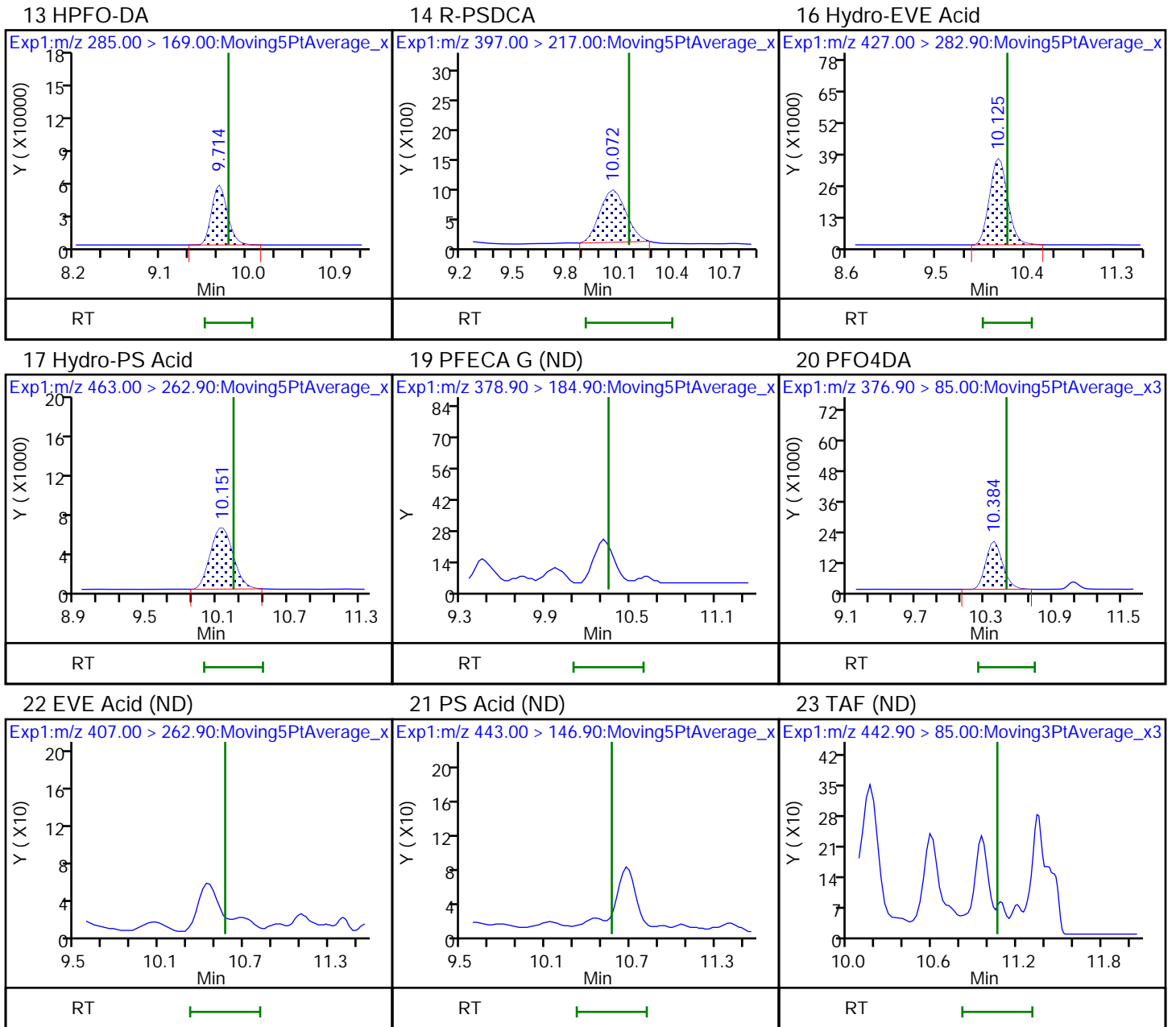
a - User Assigned ID



Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_021.d  
Injection Date: 05-Jan-2021 17:28:10 Instrument ID: A7\_N  
Lims ID: 320-68396-A-1-A Lab Sample ID: 320-68396-1  
Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
Operator ID: abservice ALS Bottle#: 21 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

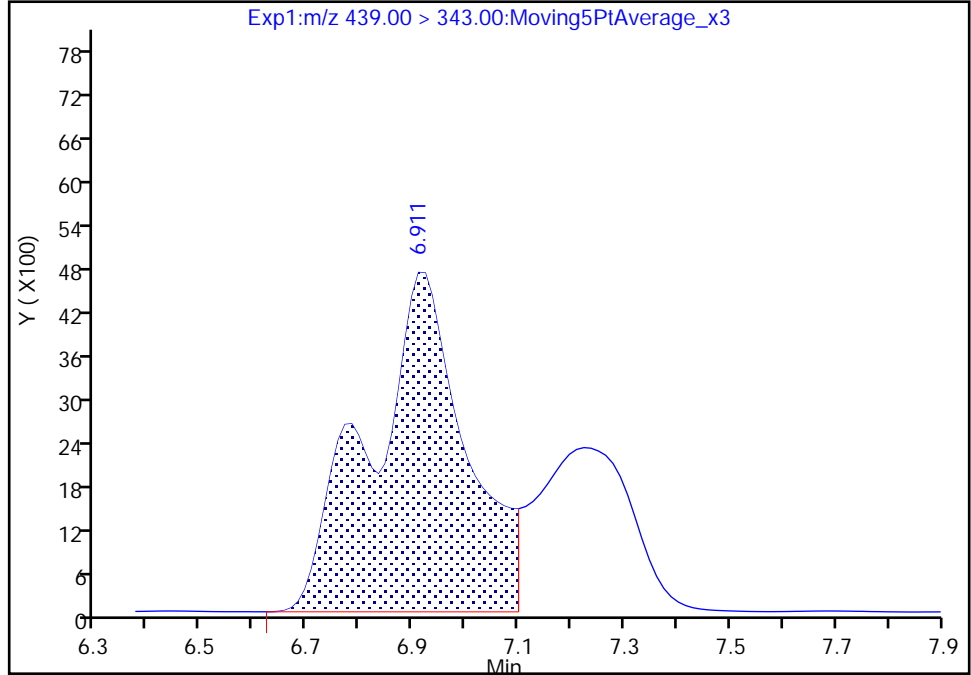
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Lims ID: 320-68396-A-1-A Lab Sample ID: 320-68396-1  
Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
Operator ID: abservice ALS Bottle#: 21 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

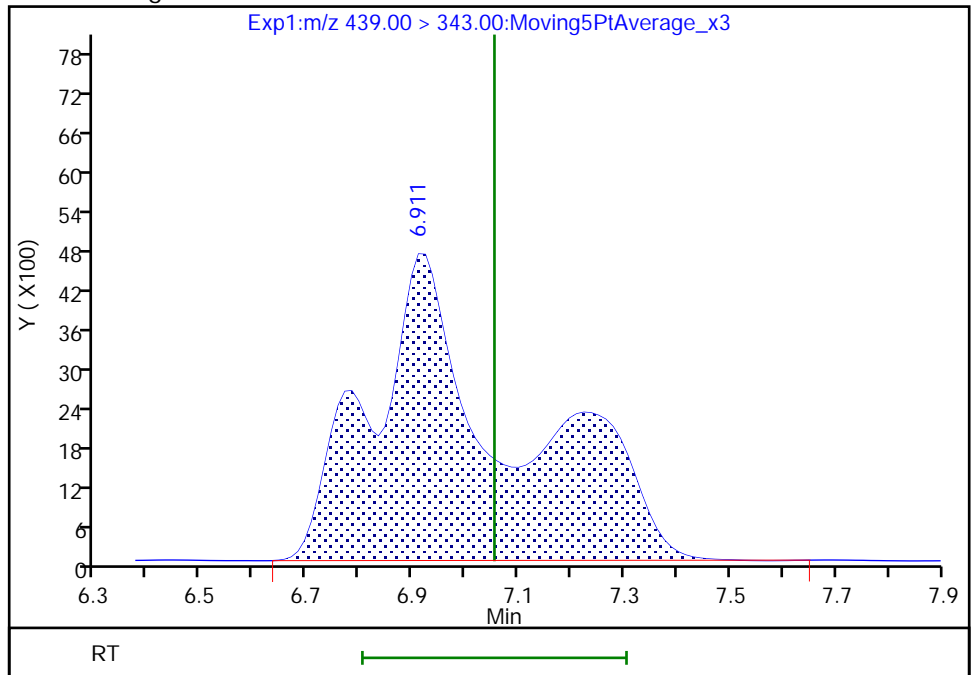
RT: 6.91  
Area: 58937  
Amount: 0.005177  
Amount Units: ng/ml

Processing Integration Results



RT: 6.91  
Area: 86886  
Amount: 0.007632  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:10:52  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

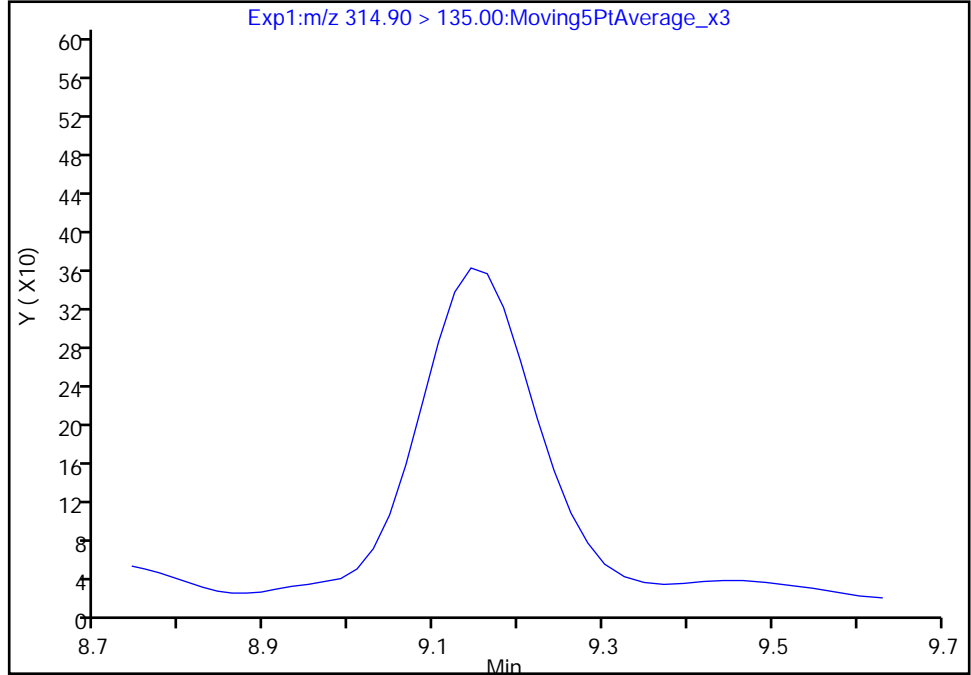
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Lims ID: 320-68396-A-1-A Lab Sample ID: 320-68396-1  
Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
Operator ID: abservice ALS Bottle#: 21 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

9 PES, CAS: 113507-82-7

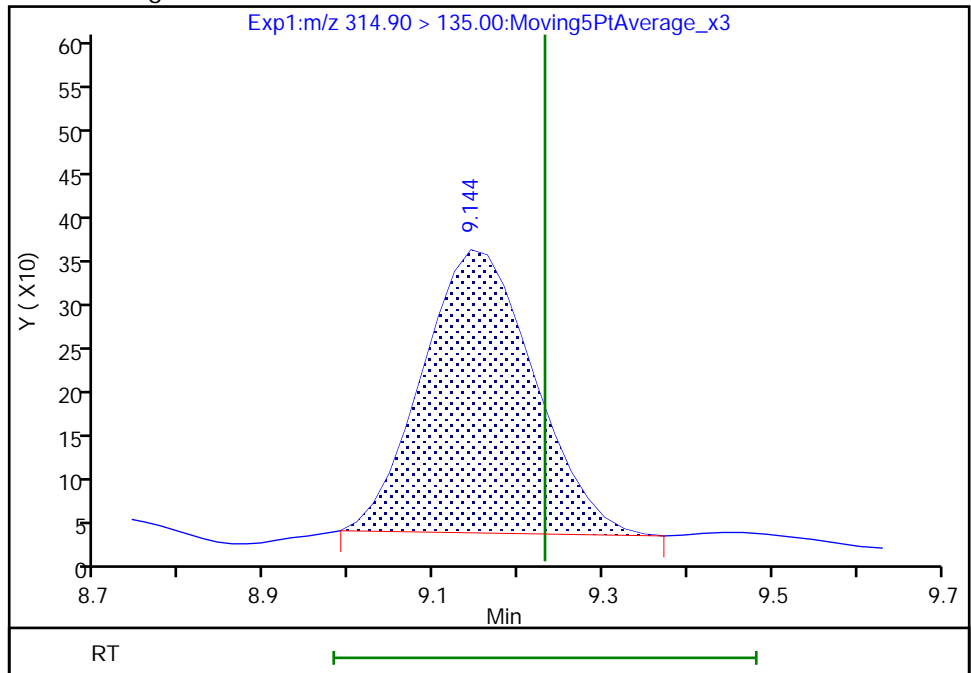
Signal: 1

Not Detected  
Expected RT: 9.23

Processing Integration Results



Manual Integration Results



RT: 9.14  
Area: 2973  
Amount: 0.000034  
Amount Units: ng/ml

Reviewer: dadunj, 06-Jan-2021 10:29:27

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason:

Eurofins TestAmerica, Sacramento

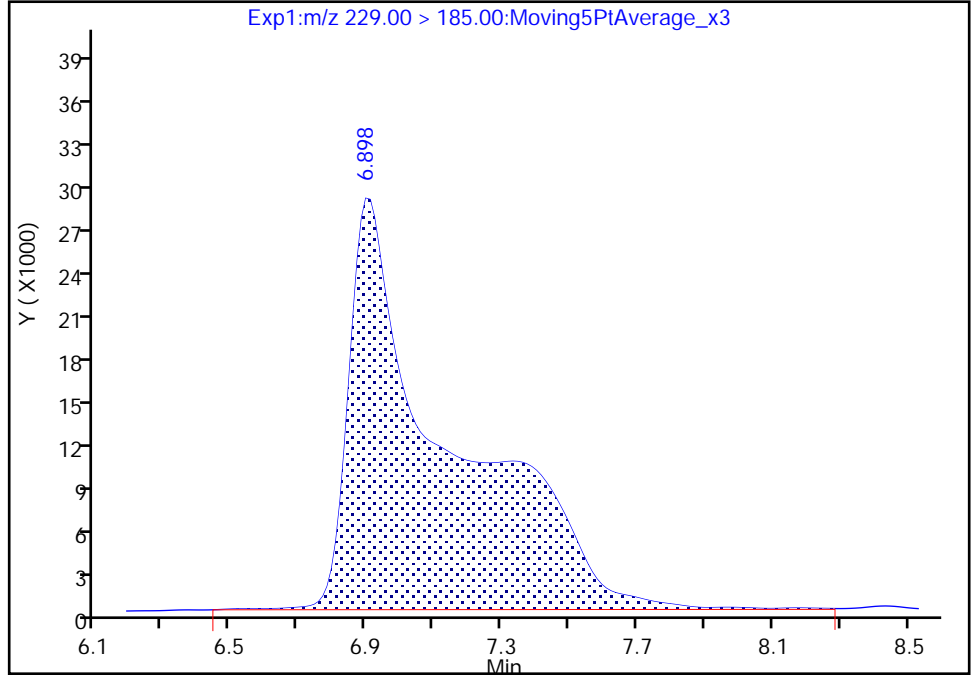
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Lims ID: 320-68396-A-1-A Lab Sample ID: 320-68396-1  
Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
Operator ID: abservice ALS Bottle#: 21 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

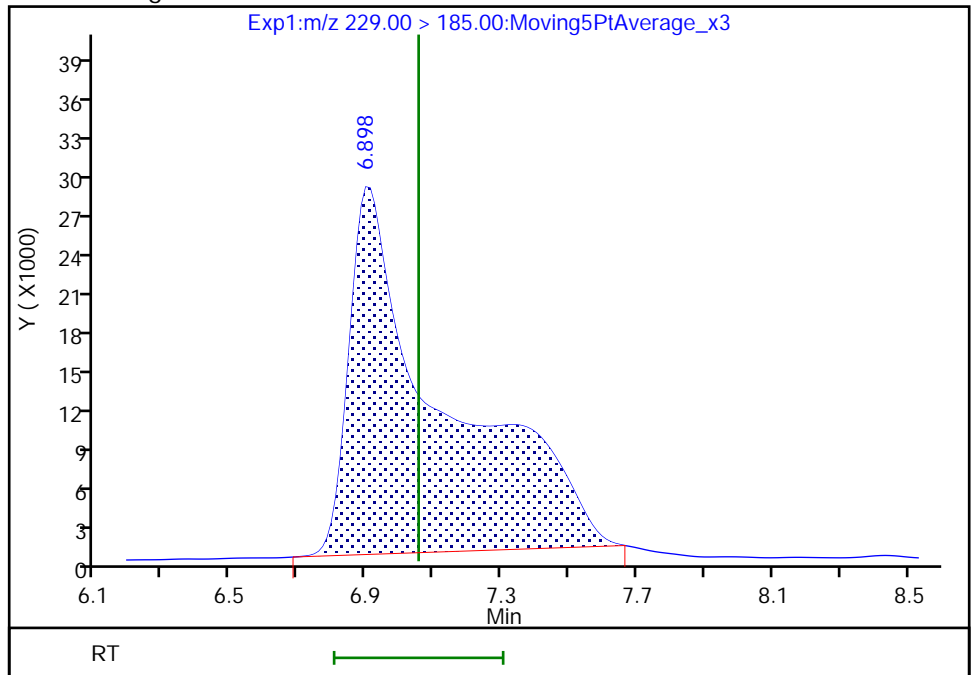
RT: 6.90  
Area: 589399  
Amount: 0.051299  
Amount Units: ng/ml

Processing Integration Results



RT: 6.90  
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Amount: 0.047510  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

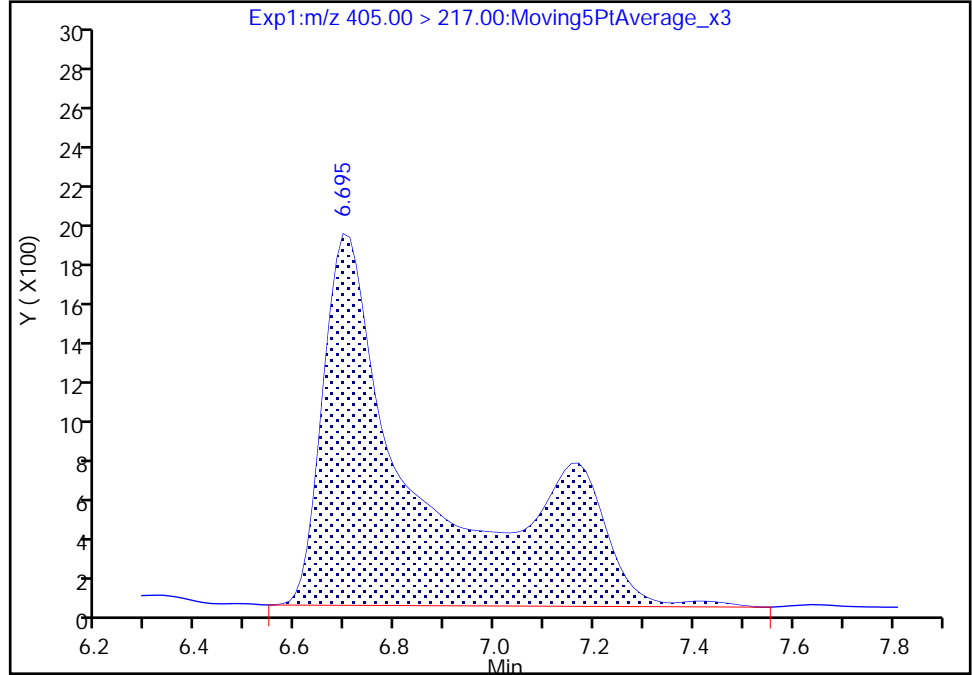
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Lims ID:	320-68396-A-1-A	Lab Sample ID:	320-68396-1
Client ID:	SEEP-C-RAIN-INFLUENT-4-122420		
Operator ID:	abservice	ALS Bottle#:	21
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector:	EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

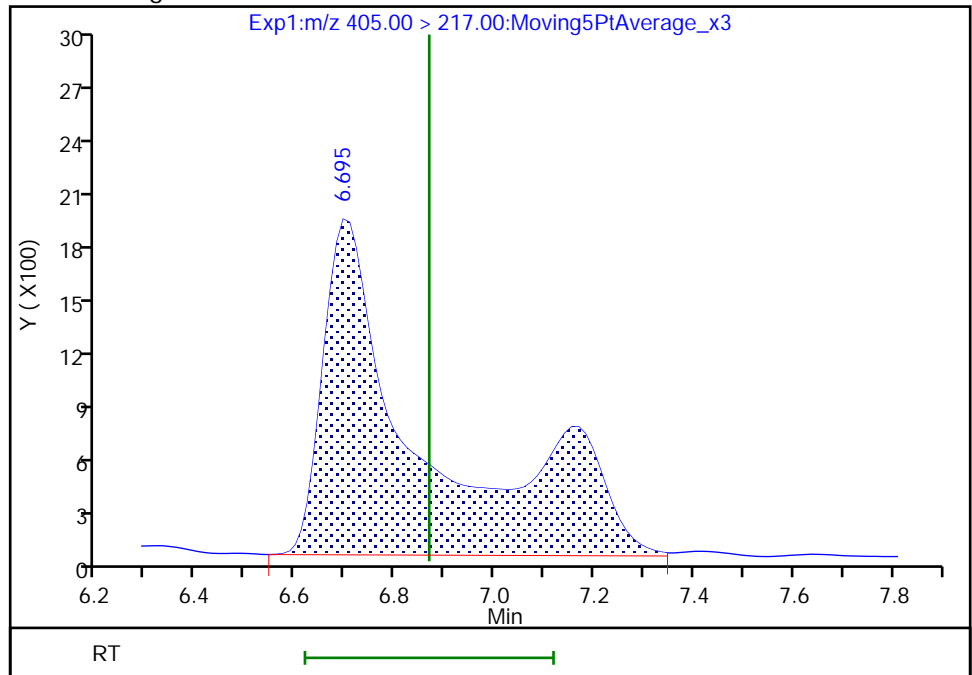
RT: 6.70  
 Area: 26793  
 Amount: 0.005332  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.70  
 Area: 26580  
 Amount: 0.005290  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:10:34  
 Audit Action: Manually Integrated

Audit Reason: Split Peak  
 Page 112 of 374

Eurofins TestAmerica, Sacramento

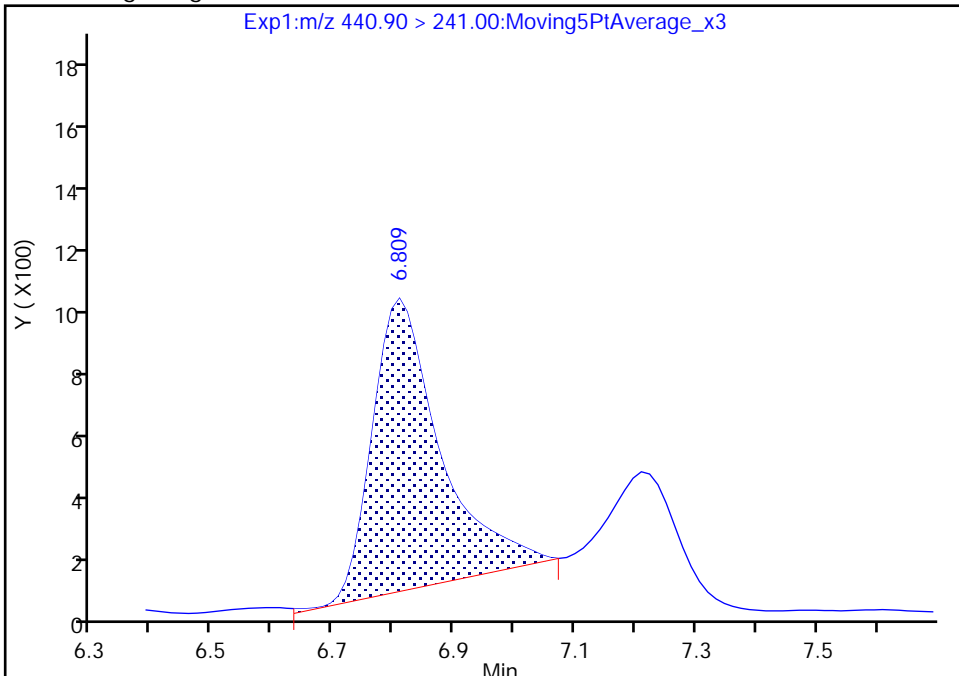
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Lims ID: 320-68396-A-1-A Lab Sample ID: 320-68396-1  
Client ID: SEEP-C-RAIN-INFLUENT-4-122420  
Operator ID: abservice ALS Bottle#: 21 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

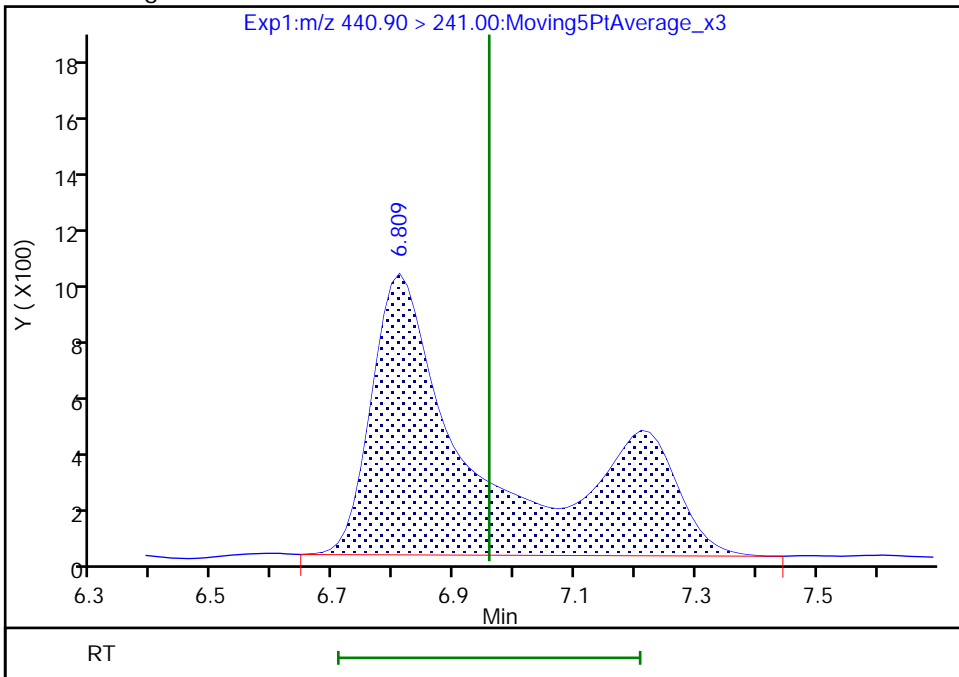
RT: 6.81  
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Amount: 0.002779  
Amount Units: ng/ml

Processing Integration Results



RT: 6.81  
Area: 13014  
Amount: 0.005096  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:10:46  
Audit Action: Manually Integrated





Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_022.d  
 Lims ID: 320-68396-A-2-A  
 Client ID: SEEP-C-RAIN-EFF\_BYPSS-4-122420  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 17:45:46 ALS Bottle#: 22 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-2-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 15-Jan-2021 09:53:25 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1652

First Level Reviewer: onishim Date: 15-Jan-2021 09:49:29  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.785	2.943	-0.158	1149135	0.0930		3933		
2 R-EVE	405.00 > 217.00	6.733	6.868	-0.135	5195	0.001034		100		M
3 R-PSDA	440.90 > 241.00	6.834	6.958	-0.124	2124	0.000832		57.0		M
4 Hydrolyzed PSDA	439.00 > 343.00	6.936	7.054	-0.118	16080	0.001412		307		
5 PMPA	229.00 > 185.00	6.923	7.054	-0.131	96006	0.008356		145		M
6 NVHOS	297.00 > 135.00	7.539	7.632	-0.093	13382	0.000836		180		M
7 PFO2HxA	245.00 > 85.00	8.179	8.261	-0.082	402341	0.0276		4017		
8 PEPA	278.90 > 234.90	8.856	8.922	-0.066	26736	0.002815		107		
11 PFO3OA	310.90 > 85.00	9.624	9.701	-0.077	90031	0.007389		1570		
D 12 13C3 HFPO-DA	287.00 > 169.00	9.734	9.812	-0.078	1383967	0.2808		112	39924	
13 HPFO-DA	285.00 > 169.00	9.734	9.812	-0.078	1.000	112571	0.0179		3259	
14 R-PSDCA	397.00 > 217.00	10.092	10.164	-0.072	2163	0.00002021		70.7		M
16 Hydro-EVE Acid	427.00 > 282.90	10.141	10.217	-0.076	80163	0.001398		1642		
17 Hydro-PS Acid	463.00 > 262.90	10.141	10.243	-0.102	11547	0.000323		307		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 PFO4DA	376.90 > 85.00	10.389	10.494	-0.105	28656	0.002128			238	

**QC Flag Legend**

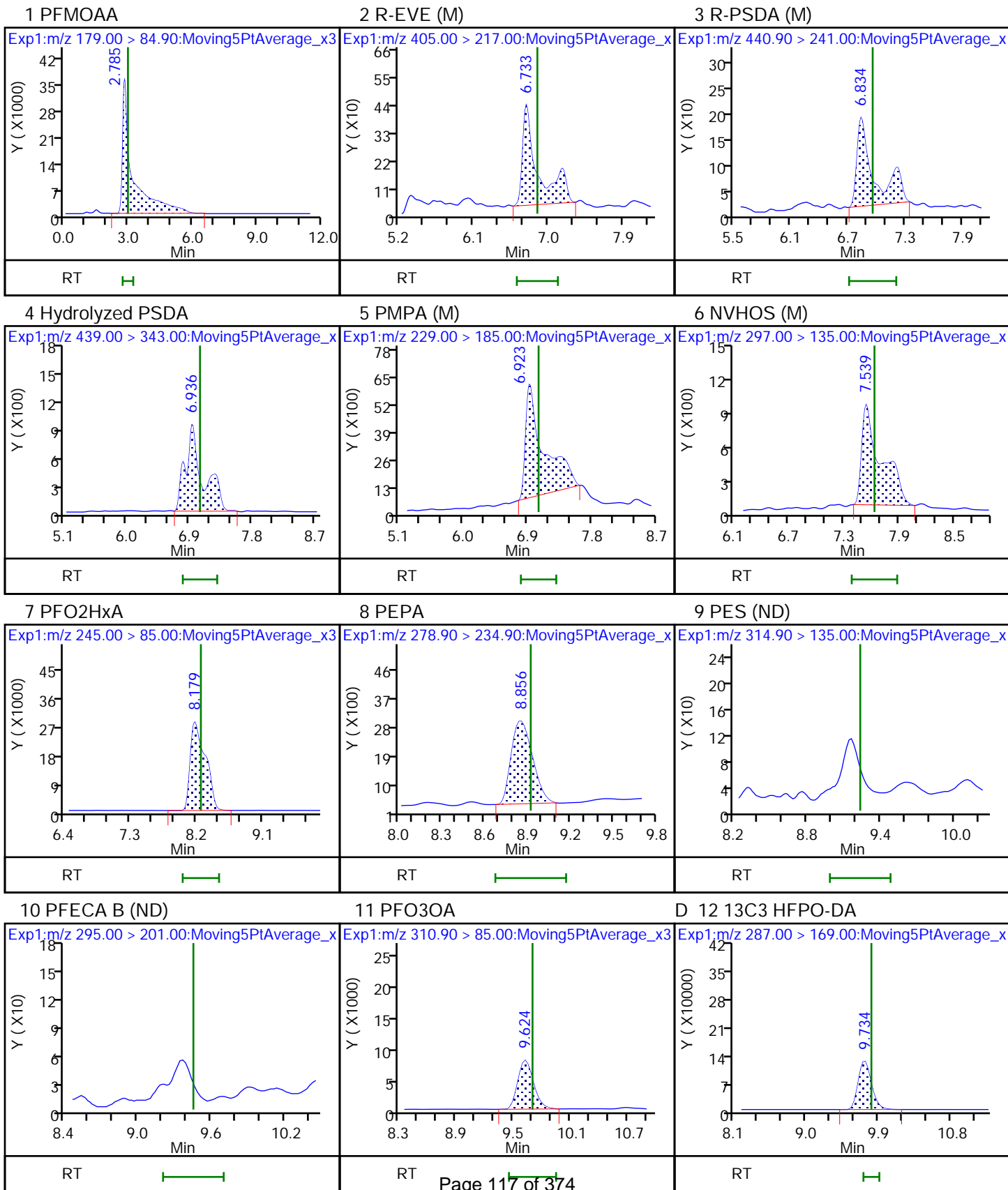
Processing Flags

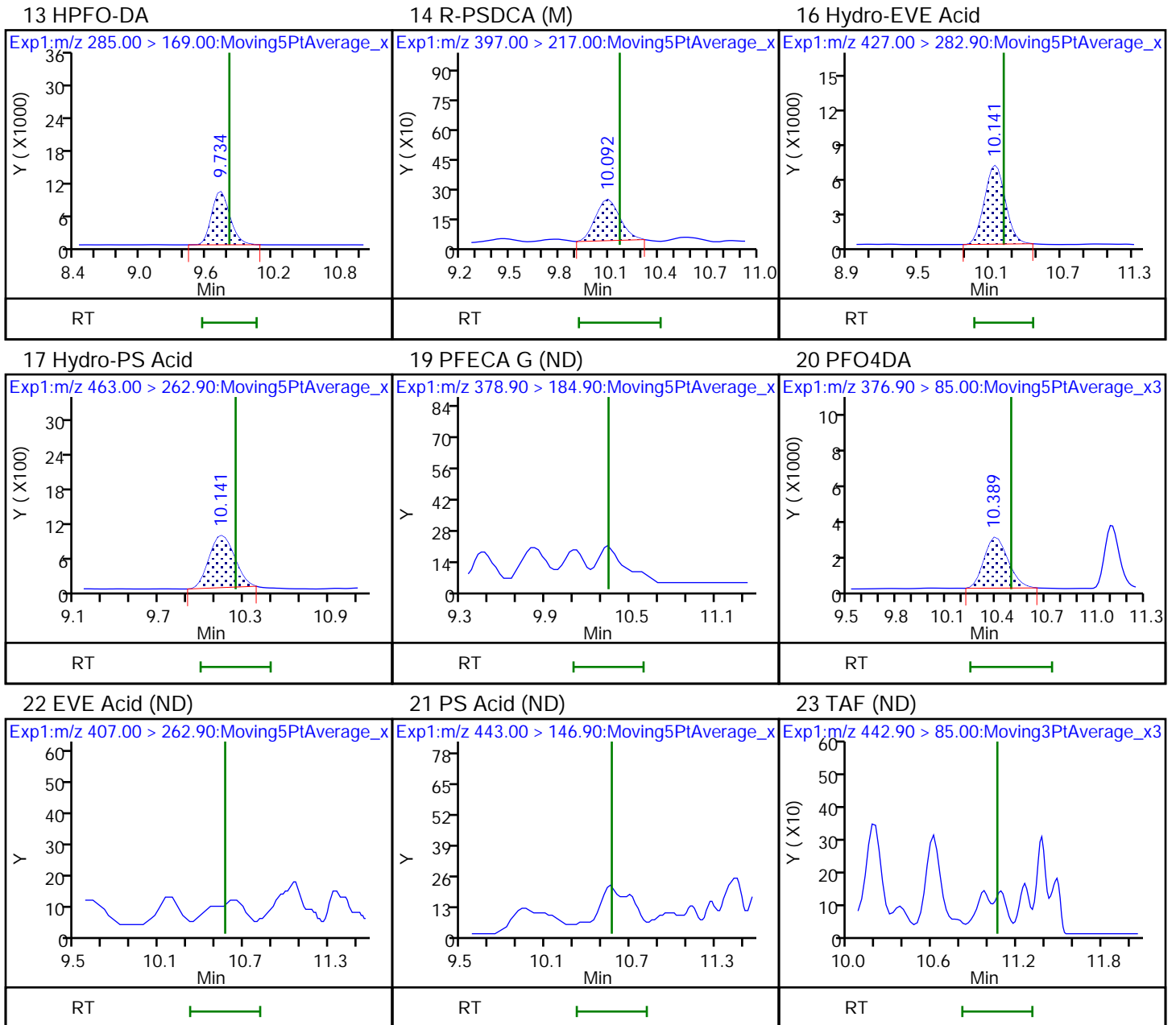
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_022.d  
Injection Date: 05-Jan-2021 17:45:46 Instrument ID: A7\_N  
Lims ID: 320-68396-A-2-A Lab Sample ID: 320-68396-2  
Client ID: SEEP-C-RAIN-EFF\_BYSPSS-4-122420  
Operator ID: abservice ALS Bottle#: 22 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

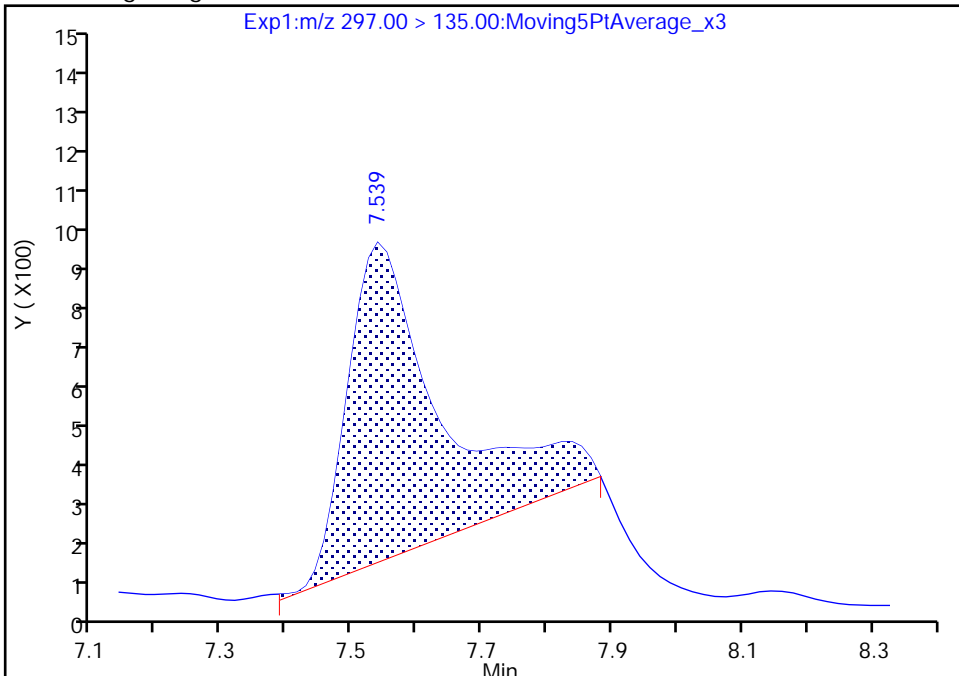
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Injection Date: 05-Jan-2021 17:45:46 Instrument ID: A7\_N  
Lims ID: 320-68396-A-2-A Lab Sample ID: 320-68396-2  
Client ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420  
Operator ID: abservice ALS Bottle#: 22 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

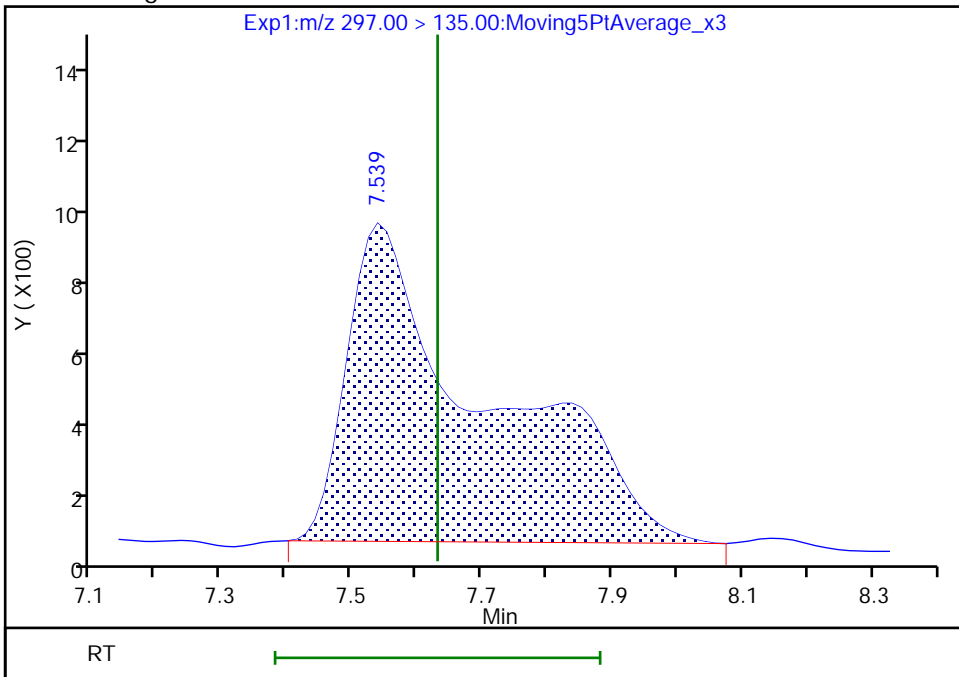
RT: 7.54  
Area: 8154  
Amount: 0.000509  
Amount Units: ng/ml

Processing Integration Results



RT: 7.54  
Area: 13382  
Amount: 0.000836  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:12:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

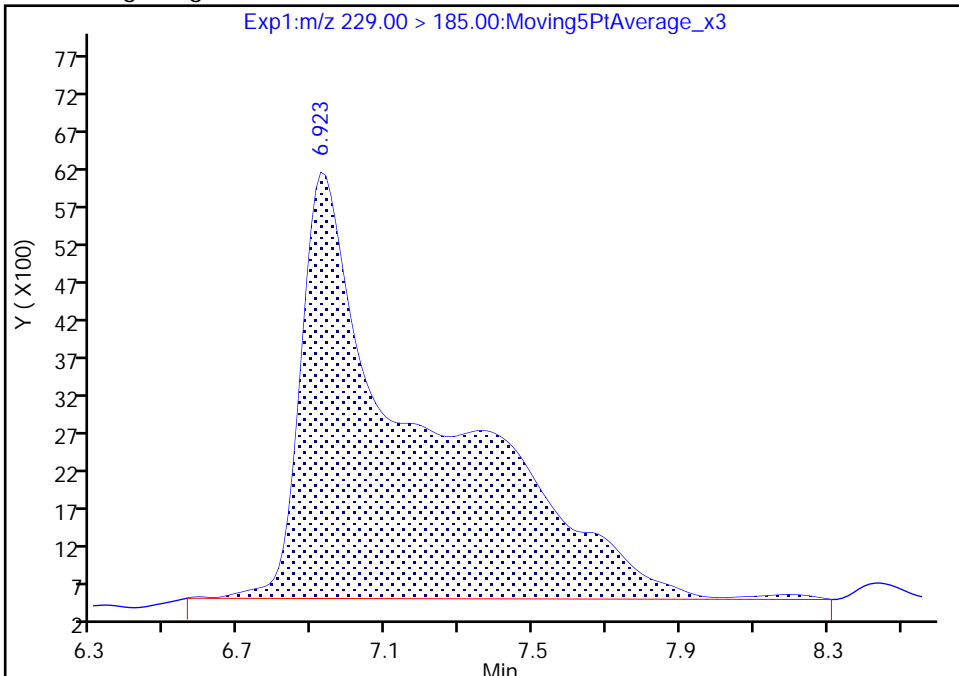
Data File:	\\chromfs\Sacramento\ChromData\A7_N\20210105-110683.b\2021.01.05_A7_TB3_B_022.d		
Injection Date:	05-Jan-2021 17:45:46	Instrument ID:	A7_N
Lims ID:	320-68396-A-2-A	Lab Sample ID:	320-68396-2
Client ID:	SEEP-C-RAIN-EFF_BYPASS-4-122420		
Operator ID:	abservice	ALS Bottle#:	22
		Worklist Smp#:	5
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector:	EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

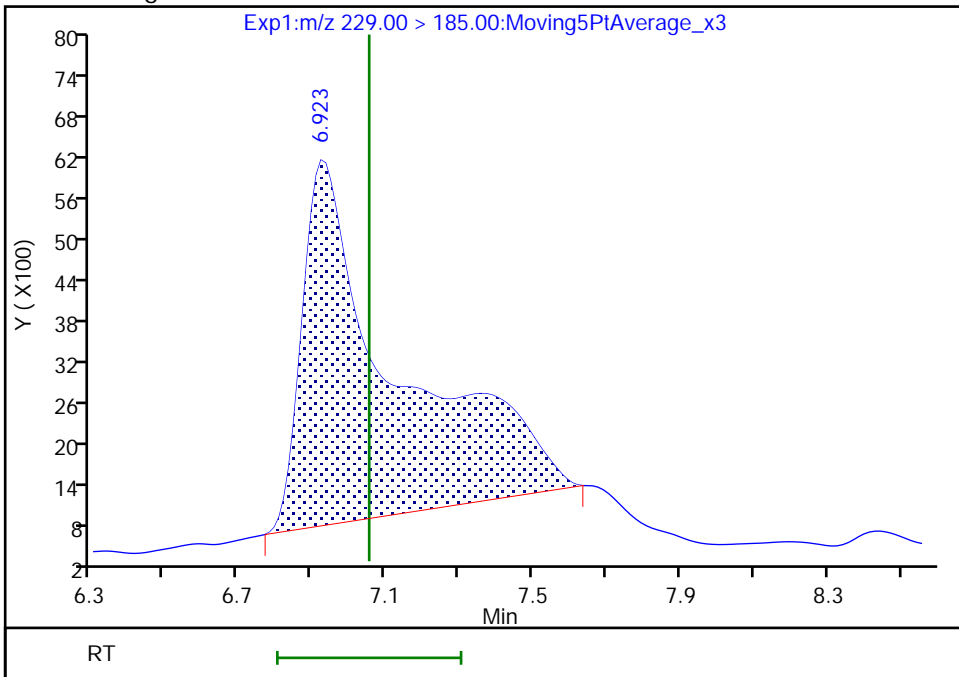
RT: 6.92  
 Area: 132467  
 Amount: 0.011529  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.92  
 Area: 96006  
 Amount: 0.008356  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:12:13  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

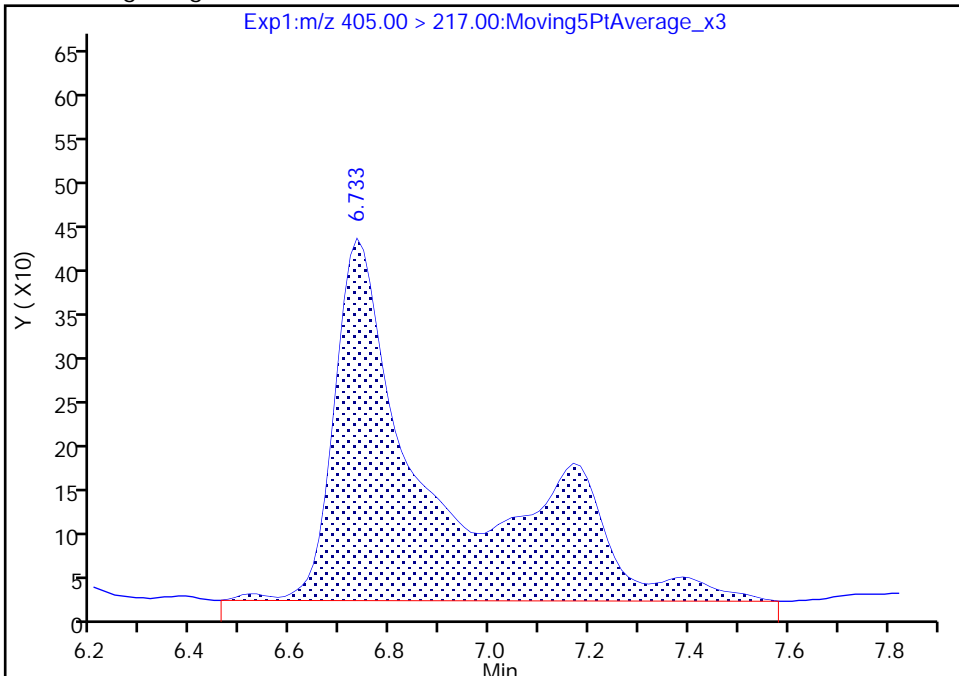
Data File:	\\chromfs\Sacramento\ChromData\A7_N\20210105-110683.b\2021.01.05_A7_TB3_B_022.d		
Injection Date:	05-Jan-2021 17:45:46	Instrument ID:	A7_N
Lims ID:	320-68396-A-2-A	Lab Sample ID:	320-68396-2
Client ID:	SEEP-C-RAIN-EFF_BYPASS-4-122420		
Operator ID:	abservice	ALS Bottle#:	22
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector:	EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

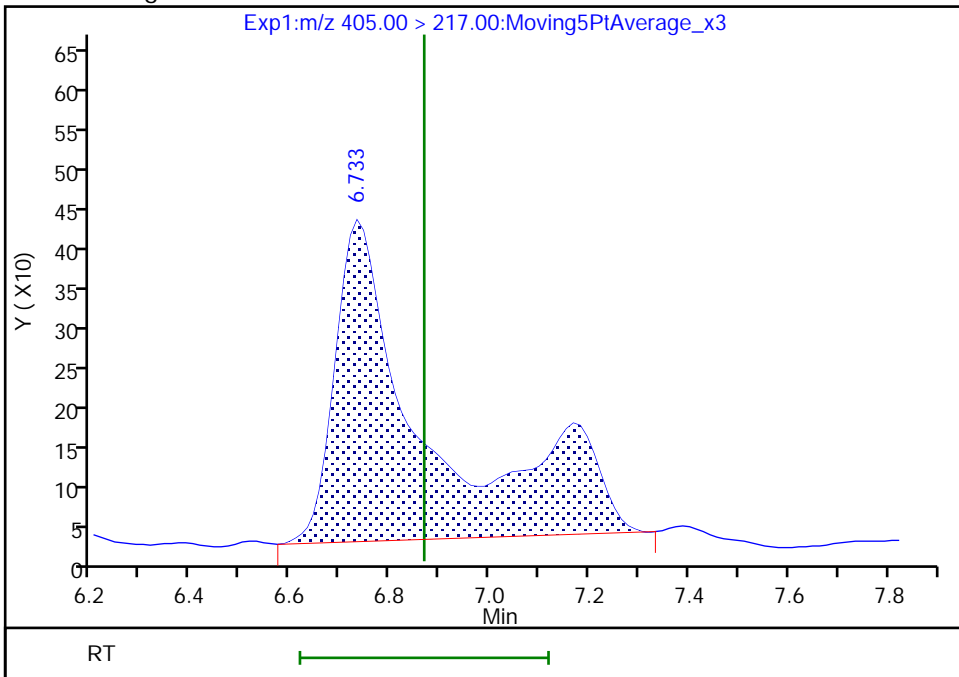
RT: 6.73  
 Area: 5957  
 Amount: 0.001185  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.73  
 Area: 5195  
 Amount: 0.001034  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:12:01  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

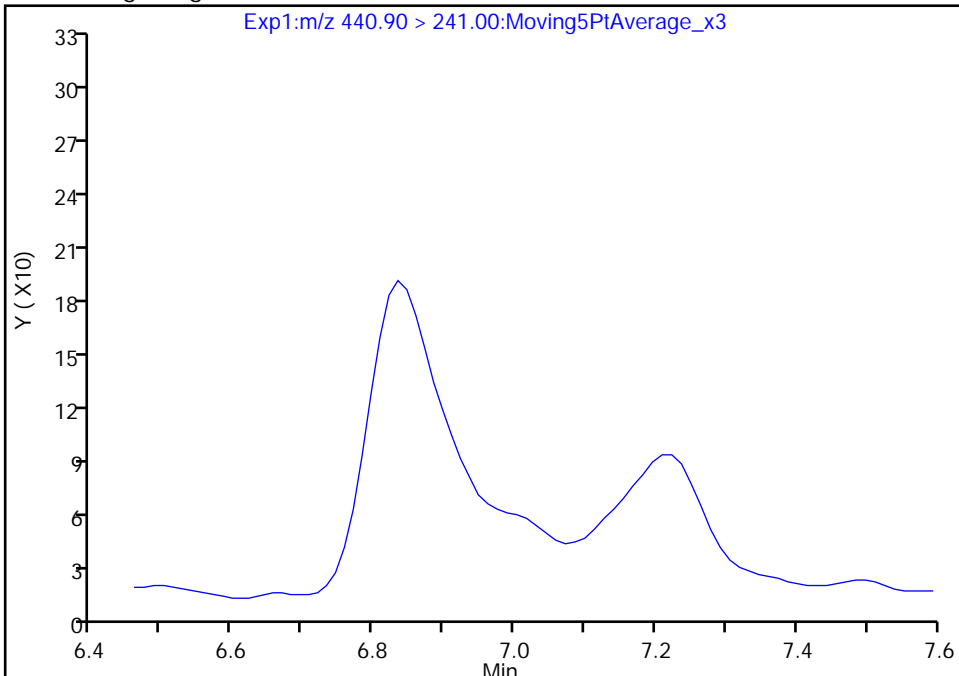
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Injection Date: 05-Jan-2021 17:45:46 Instrument ID: A7\_N  
Lims ID: 320-68396-A-2-A Lab Sample ID: 320-68396-2  
Client ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420  
Operator ID: abservice ALS Bottle#: 22 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

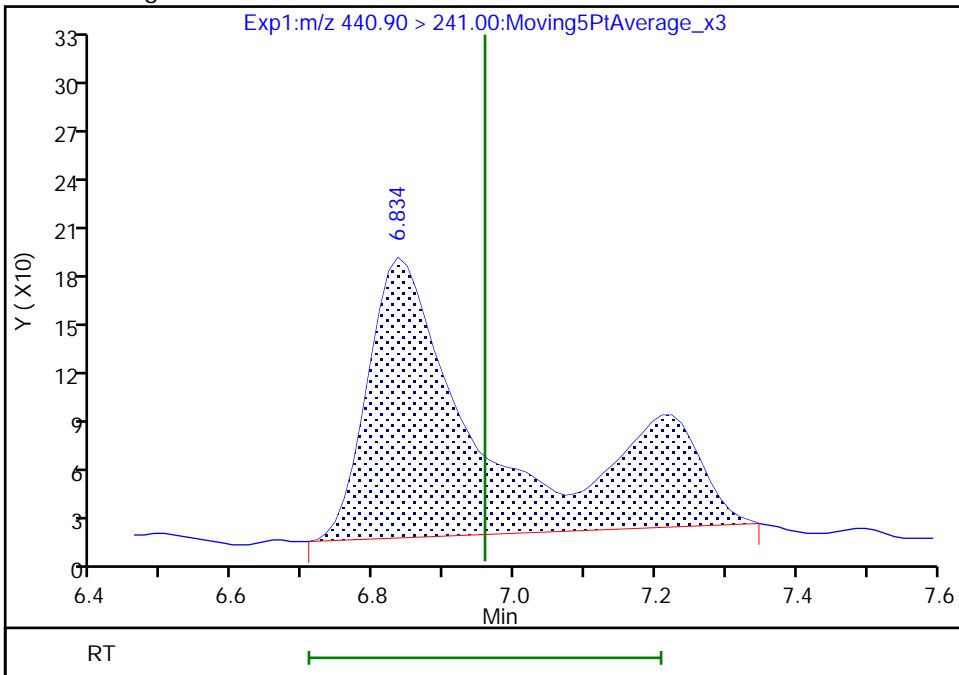
Not Detected  
Expected RT: 6.96

Processing Integration Results



Manual Integration Results

RT: 6.83  
Area: 2124  
Amount: 0.000832  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 09:12:06  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

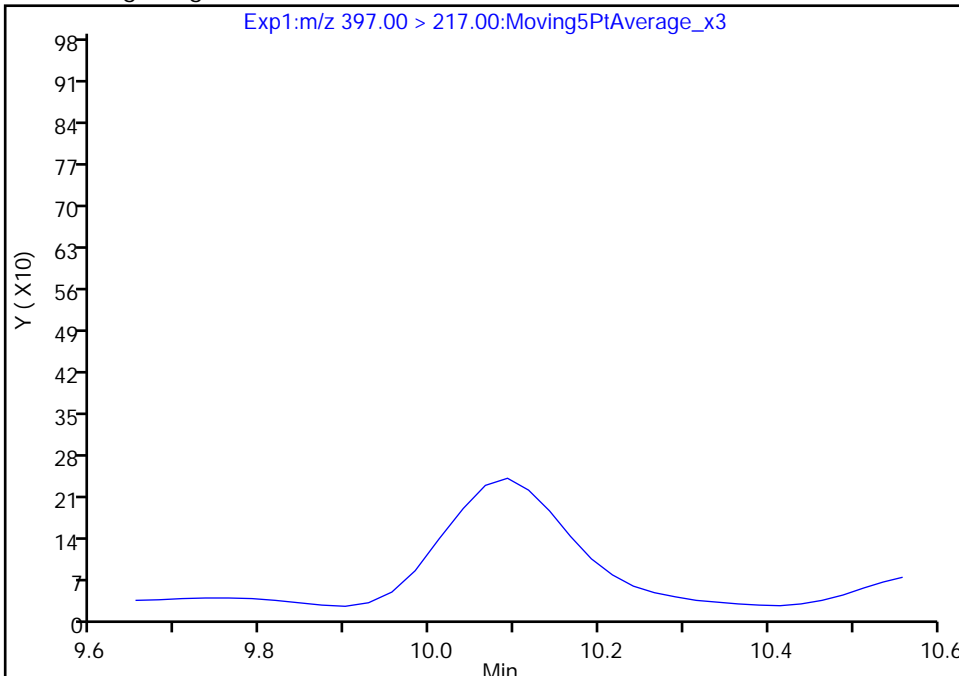
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Injection Date: 05-Jan-2021 17:45:46 Instrument ID: A7\_N  
Lims ID: 320-68396-A-2-A Lab Sample ID: 320-68396-2  
Client ID: SEEP-C-RAIN-EFF\_BYPASS-4-122420  
Operator ID: abservice ALS Bottle#: 22 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

14 R-PSDCA, CAS: 2416366-21-5

Signal: 1

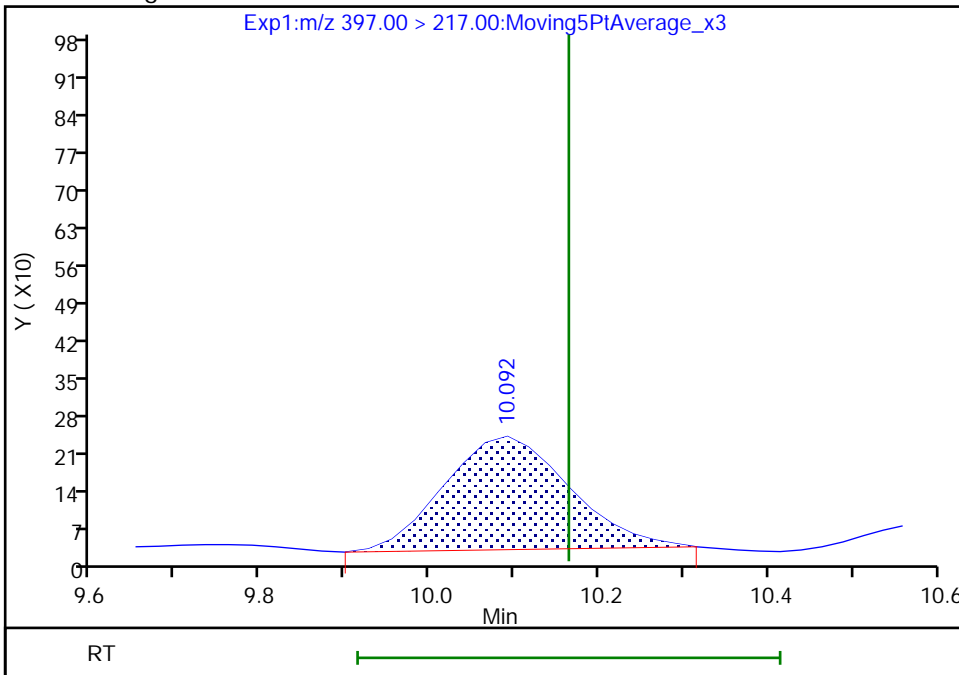
Not Detected  
Expected RT: 10.16

Processing Integration Results



Manual Integration Results

RT: 10.09  
Area: 2163  
Amount: 0.000020  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 09:12:33  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_023.d  
 Lims ID: 320-68396-A-3-A  
 Client ID: SEEP-C-INFLUENT-114-123020  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 18:03:22 ALS Bottle#: 23 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-3-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 08-Jan-2021 14:00:14 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1684

First Level Reviewer: russellkr Date: 08-Jan-2021 14:01:48

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	2.575	2.943	-0.368		5901509	0.4776		20130		a
2 R-EVE										M
405.00 > 217.00	6.610	6.868	-0.258		24364	0.004849		377		M
3 R-PSDA										M
440.90 > 241.00	6.733	6.958	-0.225		12755	0.004995		272		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.847	7.054	-0.207		73208	0.006430		1101		M
5 PMPA										M
229.00 > 185.00	6.859	7.054	-0.195		556079	0.0484		844		M
6 NVHOS										M
297.00 > 135.00	7.512	7.632	-0.120		67770	0.004233		739		M
7 PFO2HxA										
245.00 > 85.00	8.161	8.261	-0.100		1961308	0.1344		17807		
8 PEPA										
278.90 > 234.90	8.838	8.922	-0.084		143040	0.0151		524		
9 PES										M
314.90 > 135.00	9.158	9.231	-0.073		2794	0.00003182		68.3		M
11 PFO3OA										
310.90 > 85.00	9.624	9.701	-0.077		463863	0.0381		6694		
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.734	9.812	-0.078		1338823	0.2716		109	38467	
13 HPFO-DA										
285.00 > 169.00	9.734	9.812	-0.078	1.000	572991	0.0941		16564		
14 R-PSDCA										M
397.00 > 217.00	10.090	10.164	-0.074		8985	0.00008396		270		M
16 Hydro-EVE Acid										
427.00 > 282.90	10.143	10.217	-0.074		425523	0.007418		8498		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
17 Hydro-PS Acid										
463.00 > 262.90	10.143	10.243	-0.100		66021	0.001848			1715	
20 PFO4DA										
376.90 > 85.00	10.394	10.494	-0.100		136964	0.0102			1226	

**QC Flag Legend**

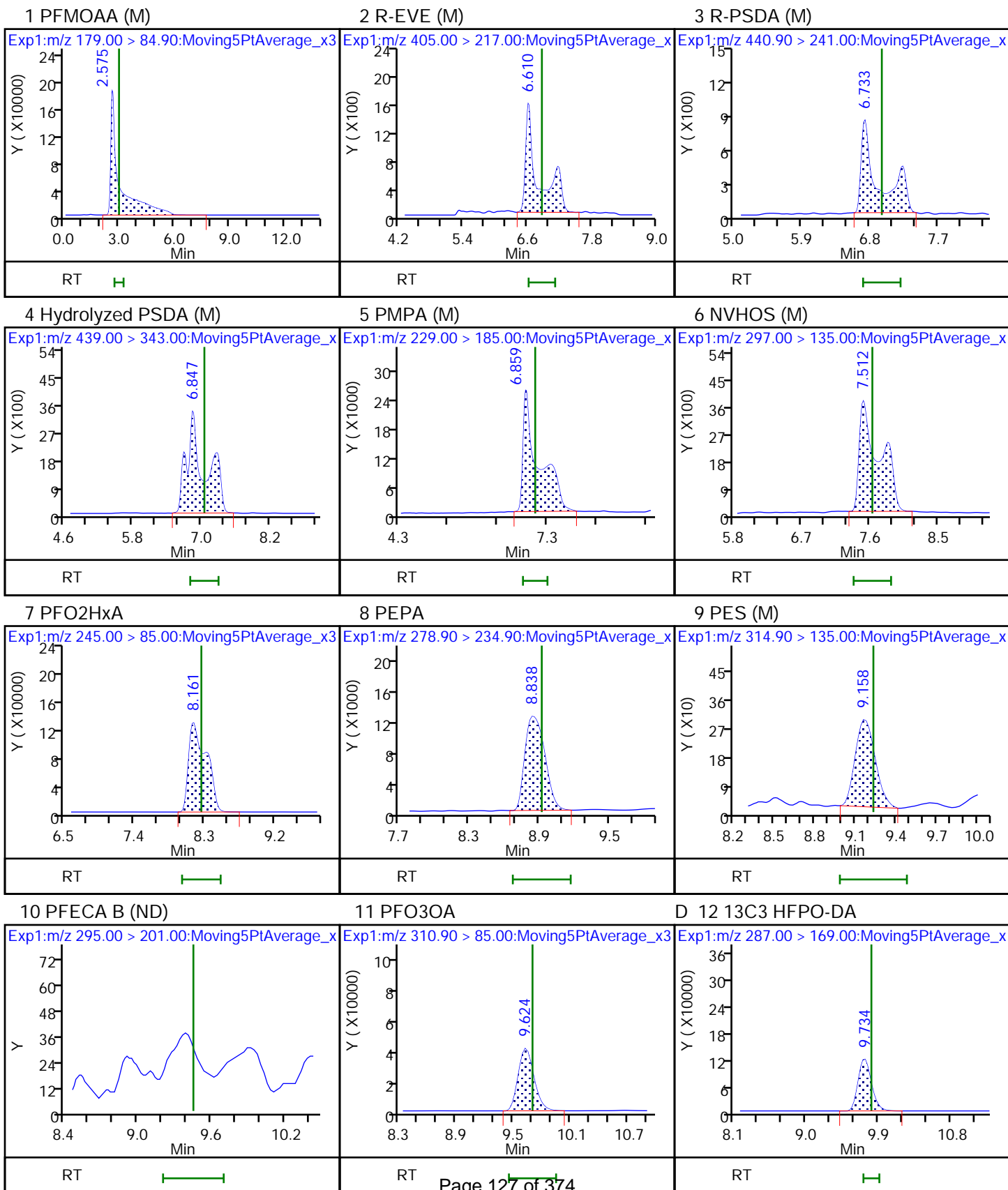
Processing Flags

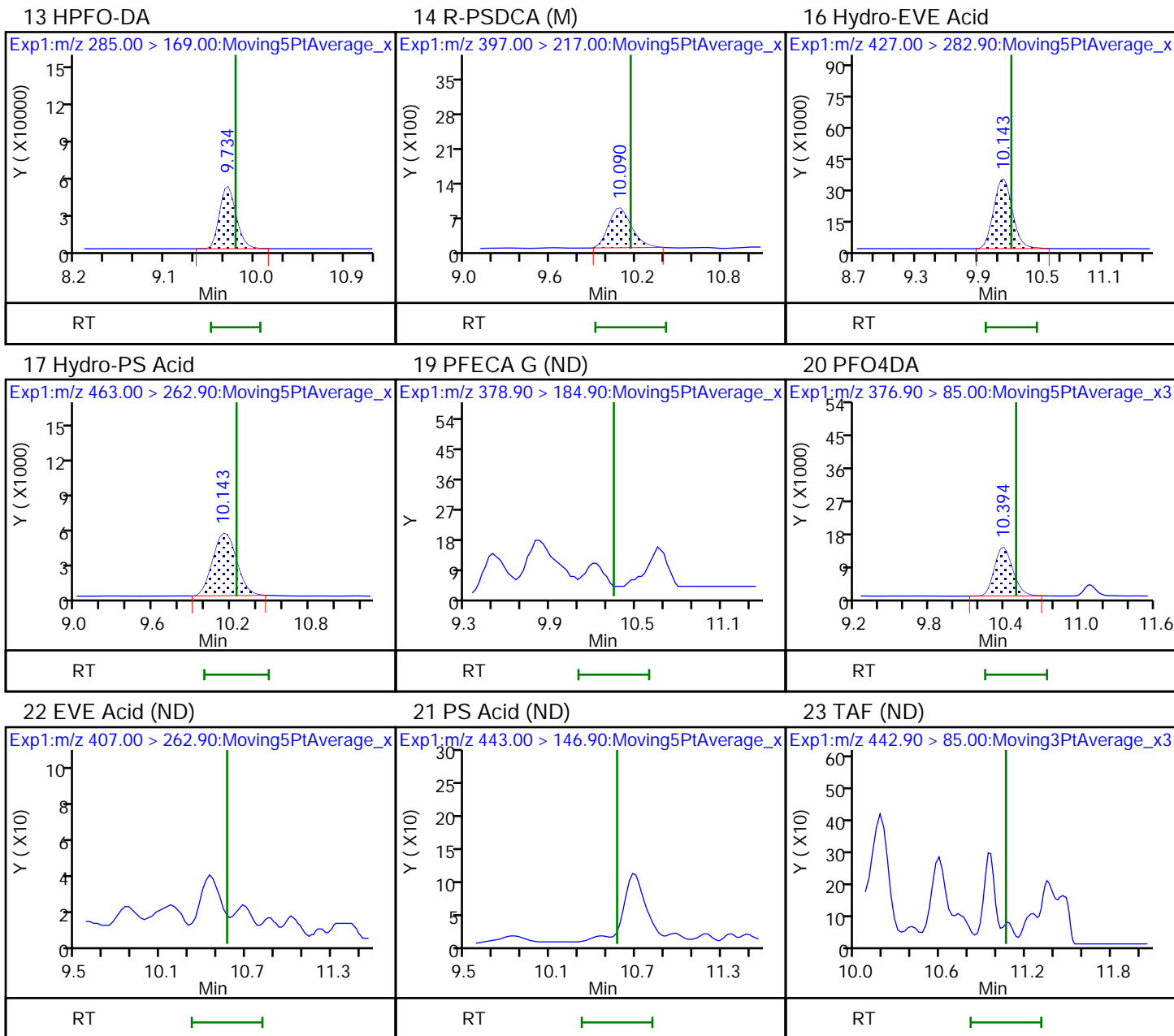
Review Flags

M - Manually Integrated

a - User Assigned ID

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Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

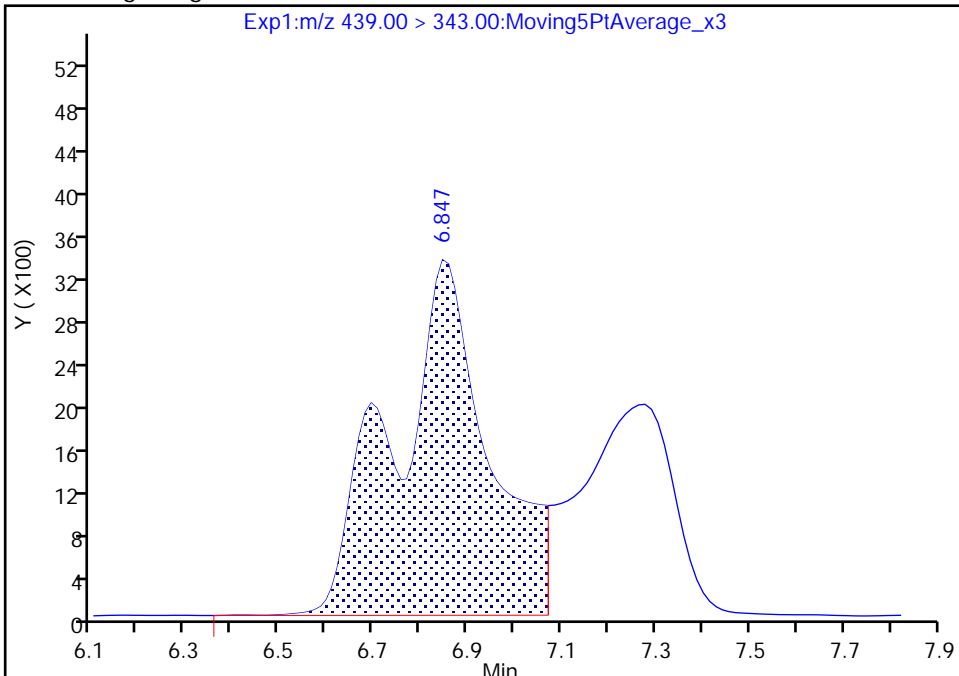
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Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

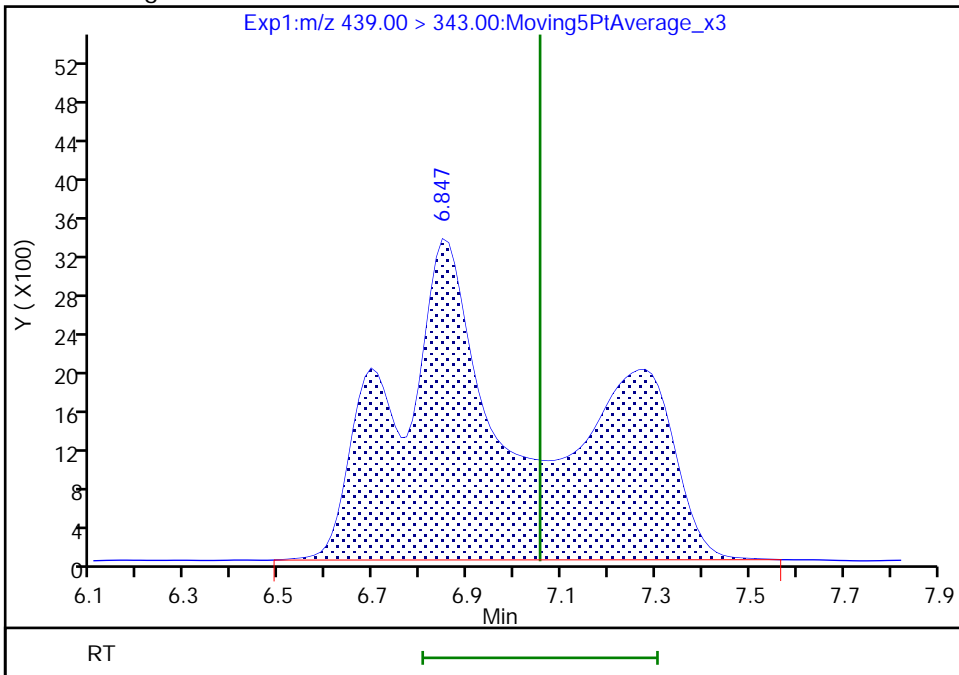
RT: 6.85  
Area: 46655  
Amount: 0.004098  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 73208  
Amount: 0.006430  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:28:49  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

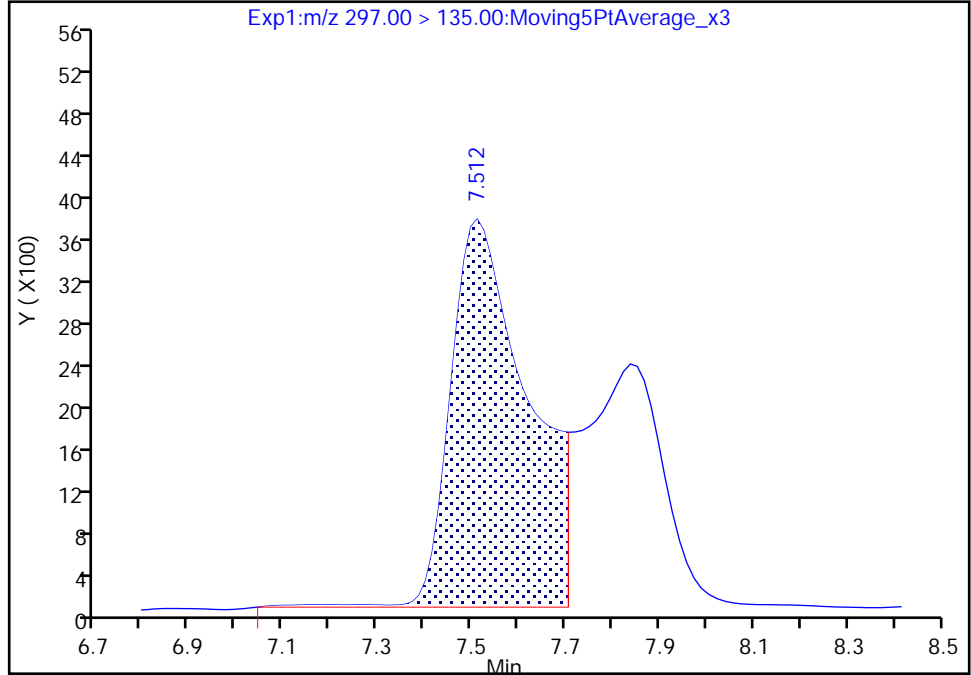
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Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

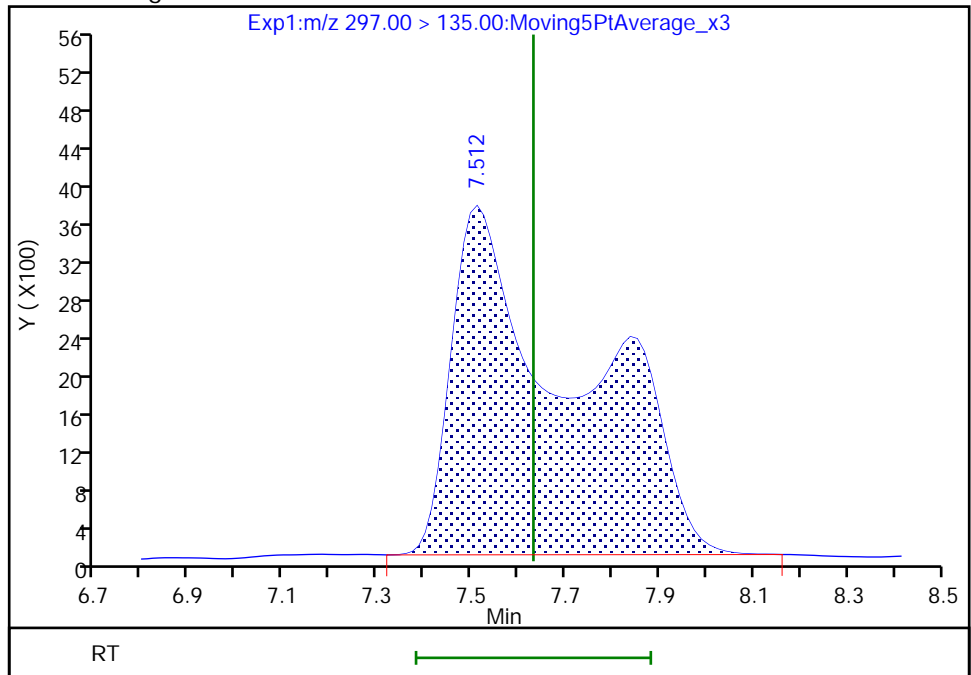
RT: 7.51  
Area: 42050  
Amount: 0.002627  
Amount Units: ng/ml

Processing Integration Results



RT: 7.51  
Area: 67770  
Amount: 0.004233  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:28:57  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

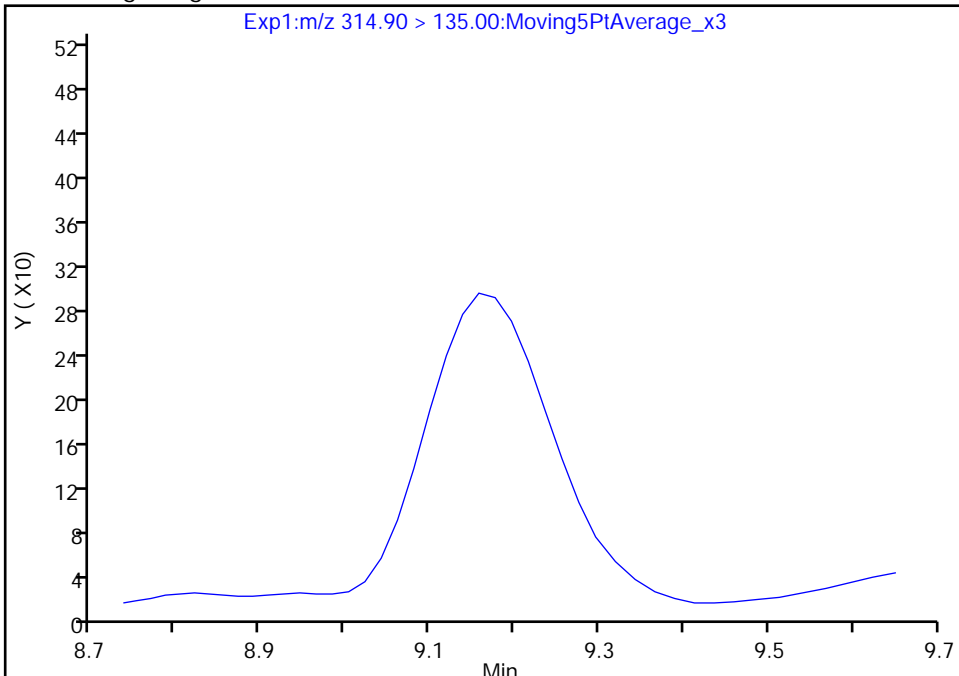
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Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

9 PES, CAS: 113507-82-7

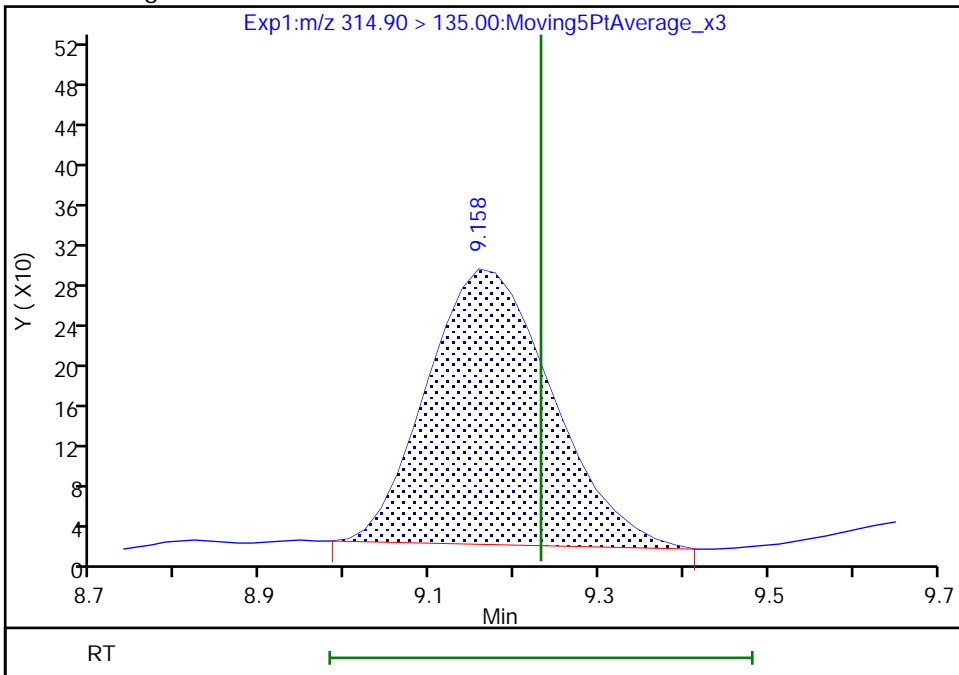
Signal: 1

Not Detected  
Expected RT: 9.23

Processing Integration Results



Manual Integration Results



RT: 9.16  
Area: 2794  
Amount: 0.000032  
Amount Units: ng/ml

Reviewer: dadunj, 06-Jan-2021 10:29:09  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 131 of 374

Eurofins TestAmerica, Sacramento

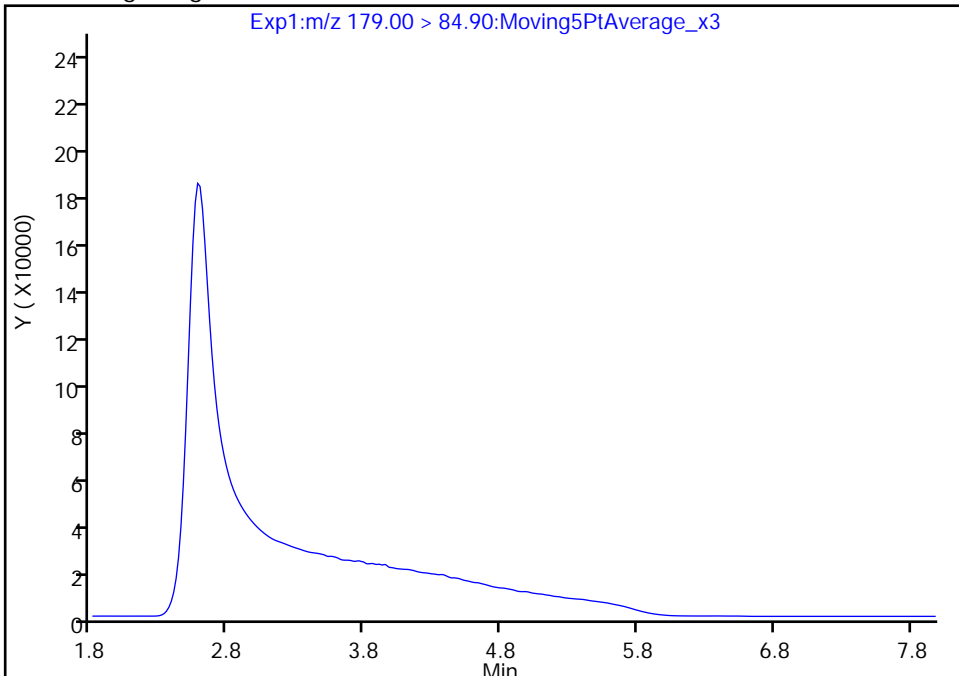
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Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

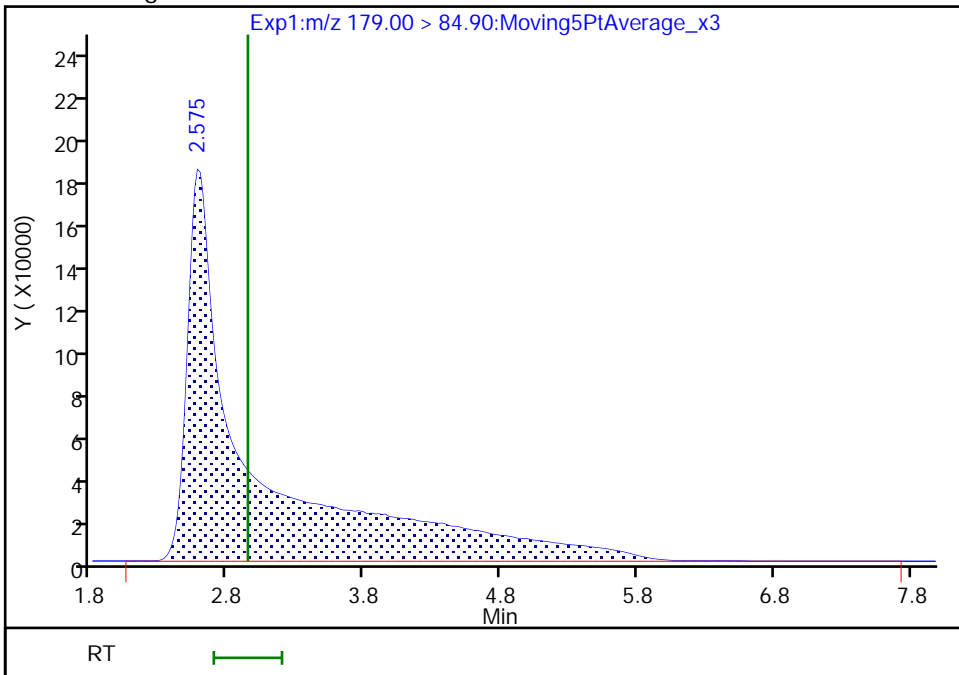
Not Detected  
Expected RT: 2.94

Processing Integration Results



RT: 2.57  
Area: 5901509  
Amount: 0.477602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:28:29  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

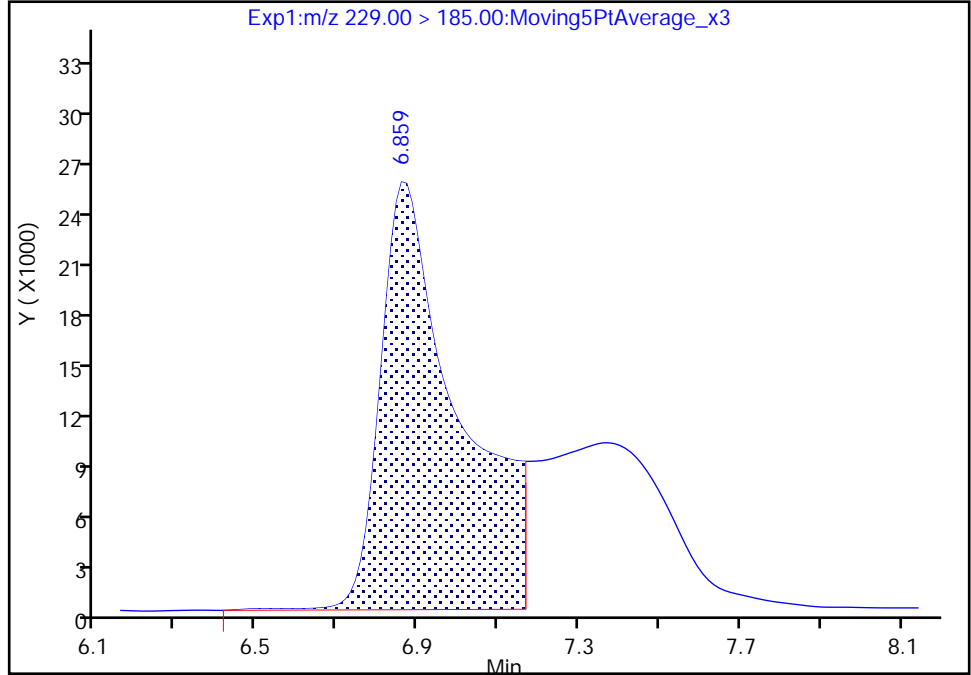
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_023.d  
Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

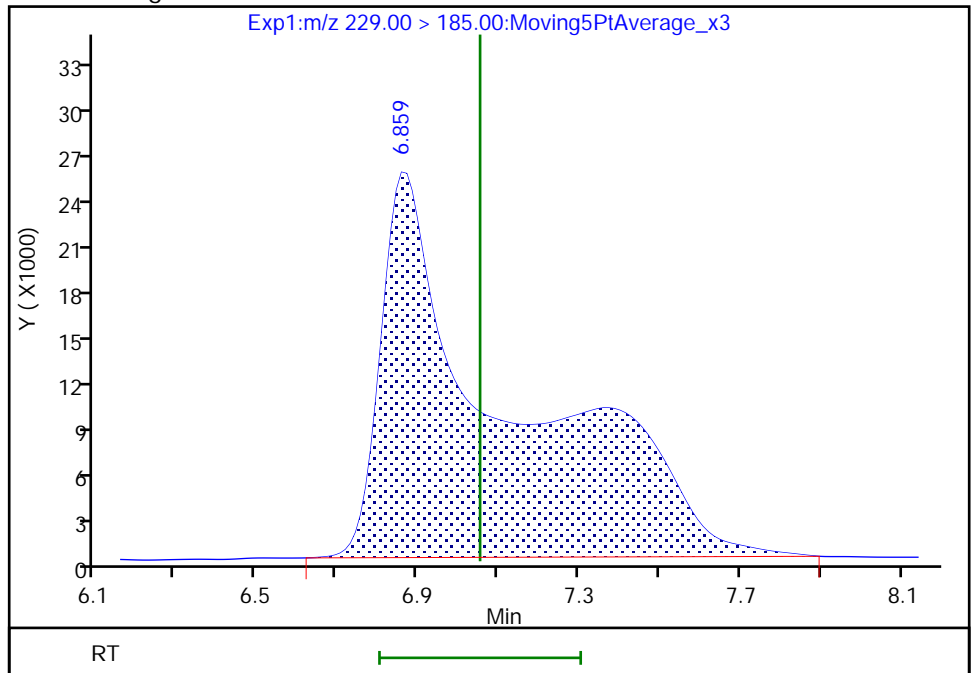
RT: 6.86  
Area: 341429  
Amount: 0.029717  
Amount Units: ng/ml

Processing Integration Results



RT: 6.86  
Area: 556079  
Amount: 0.048399  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:28:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

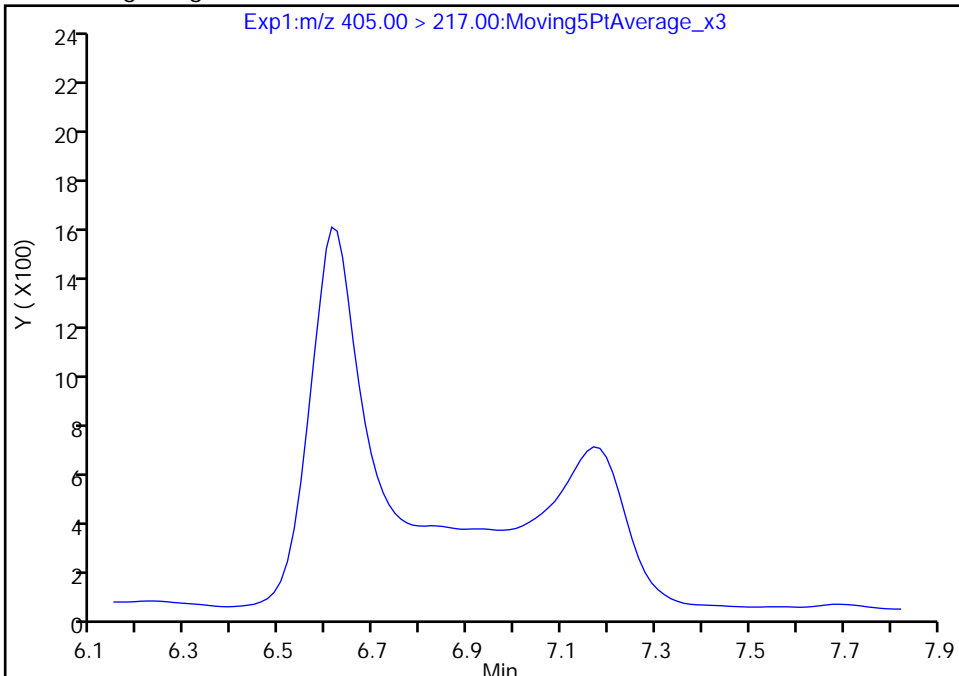
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_023.d  
Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

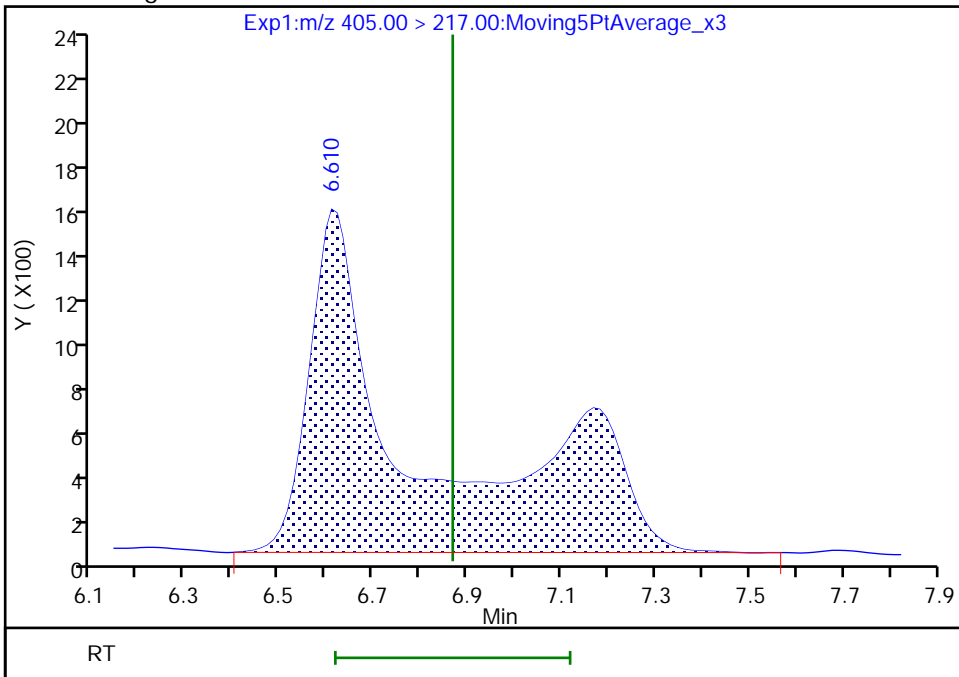
Signal: 1

Not Detected  
Expected RT: 6.87

Processing Integration Results



Manual Integration Results



RT: 6.61  
Area: 24364  
Amount: 0.004849  
Amount Units: ng/ml

Reviewer: dadunj, 06-Jan-2021 10:28:42  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

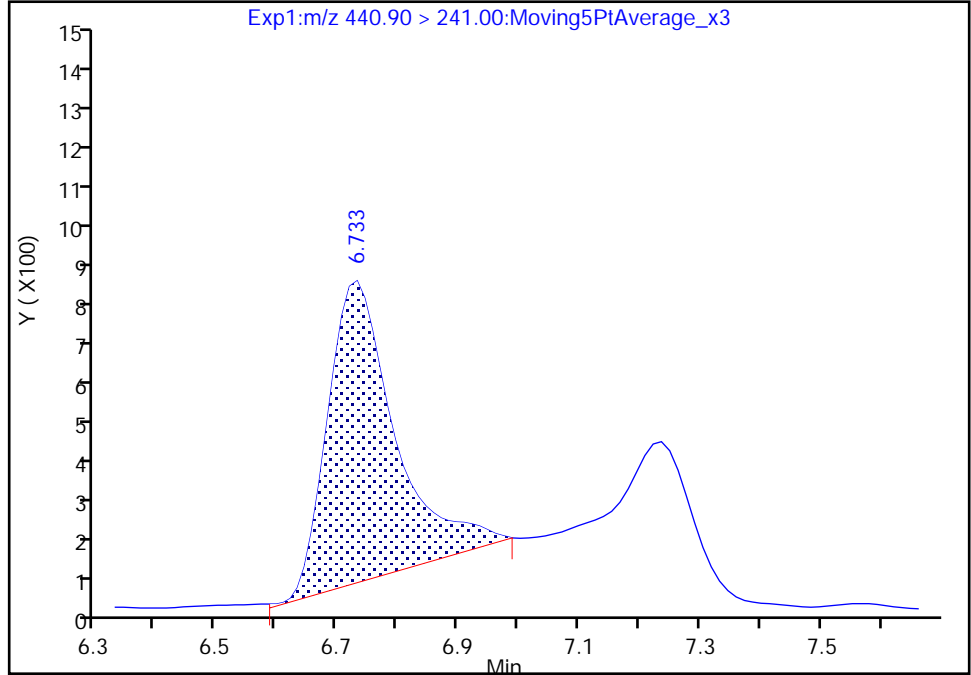
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_023.d  
Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

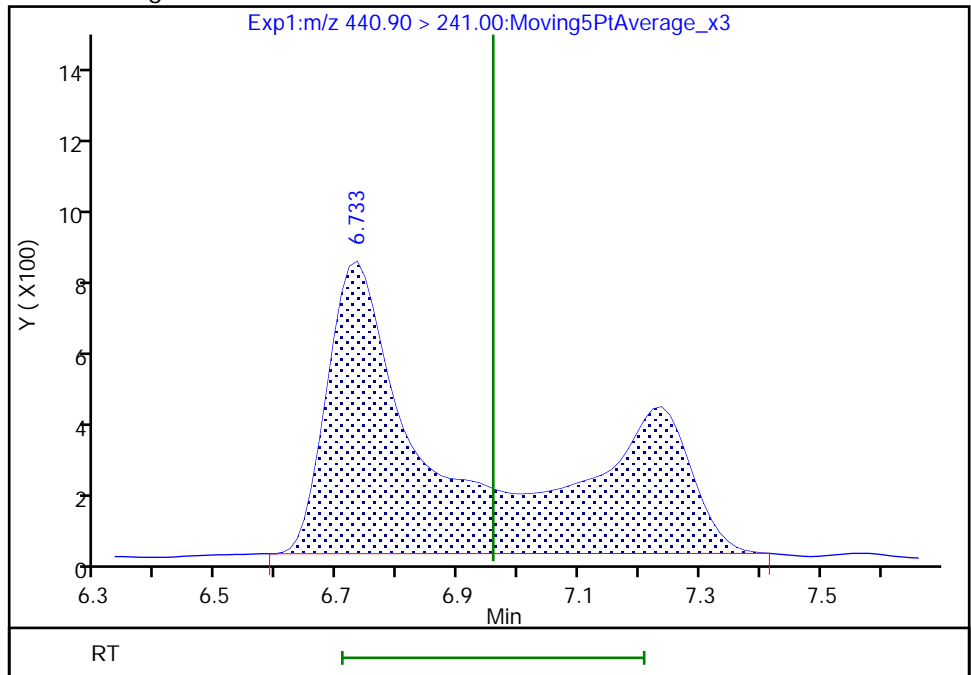
RT: 6.73  
Area: 5928  
Amount: 0.002321  
Amount Units: ng/ml

Processing Integration Results



RT: 6.73  
Area: 12755  
Amount: 0.004995  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:28:46  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

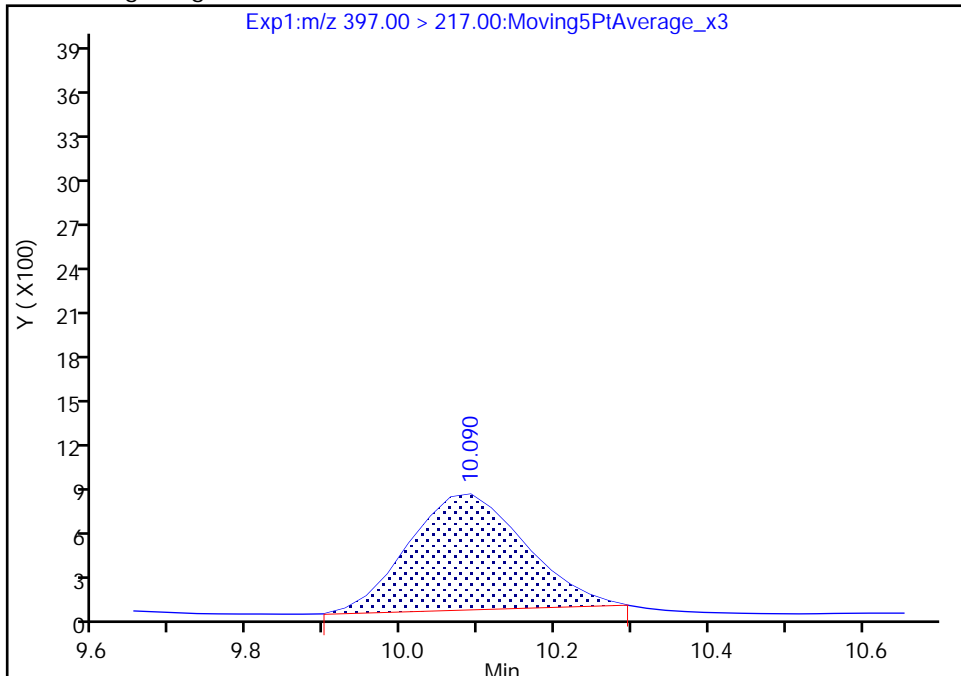
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_023.d  
Injection Date: 05-Jan-2021 18:03:22 Instrument ID: A7\_N  
Lims ID: 320-68396-A-3-A Lab Sample ID: 320-68396-3  
Client ID: SEEP-C-INFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 23 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

14 R-PSDCA, CAS: 2416366-21-5

Signal: 1

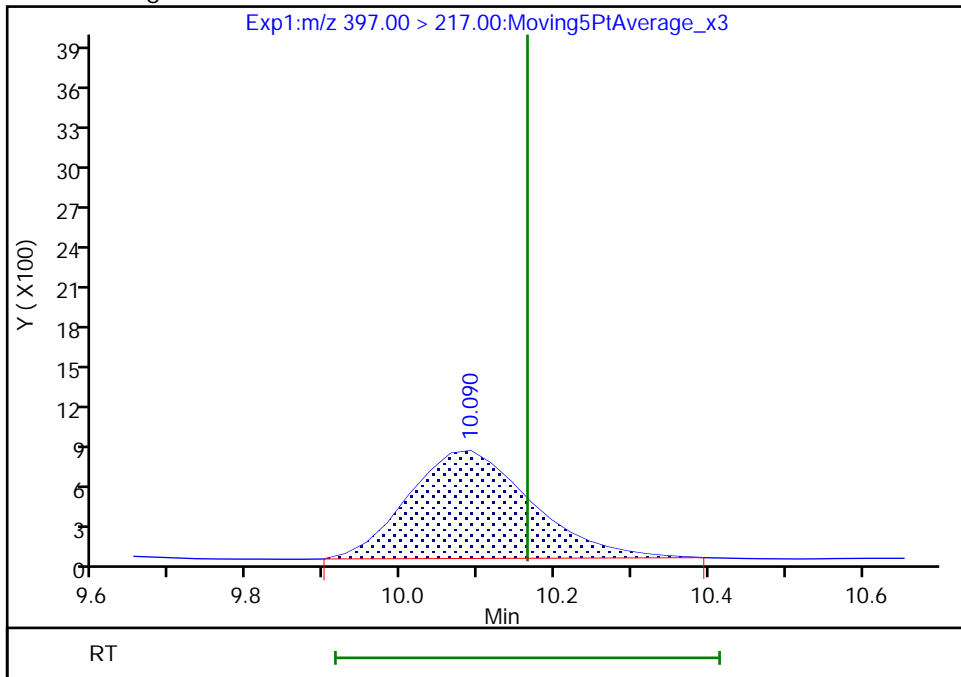
RT: 10.09  
Area: 8302  
Amount: 0.000078  
Amount Units: ng/ml

Processing Integration Results



RT: 10.09  
Area: 8985  
Amount: 0.000084  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 10:30:07  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_024.d  
 Lims ID: 320-68396-A-4-A  
 Client ID: SEEP-C-EFFLUENT-114-123020  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 18:20:58 ALS Bottle#: 24 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-4-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 08-Jan-2021 14:00:14 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1684

First Level Reviewer: dadunj Date: 06-Jan-2021 10:31:02  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PMPA										M
229.00 > 185.00	7.662	7.054	0.608		36956	0.003217		29.1		M
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.713	9.812	-0.099		1349207	0.2737		109	39272	

**QC Flag Legend**

Processing Flags

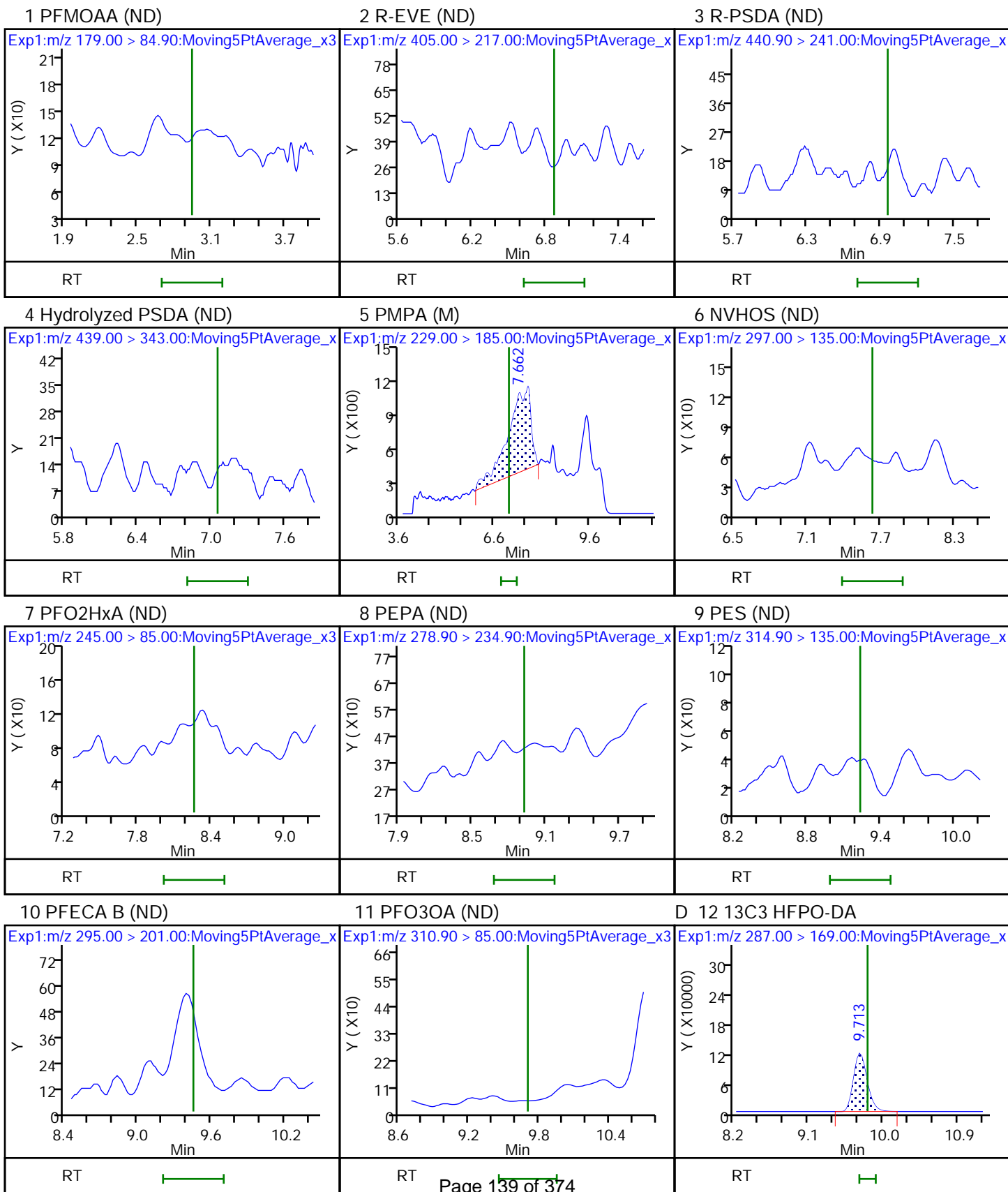
Review Flags

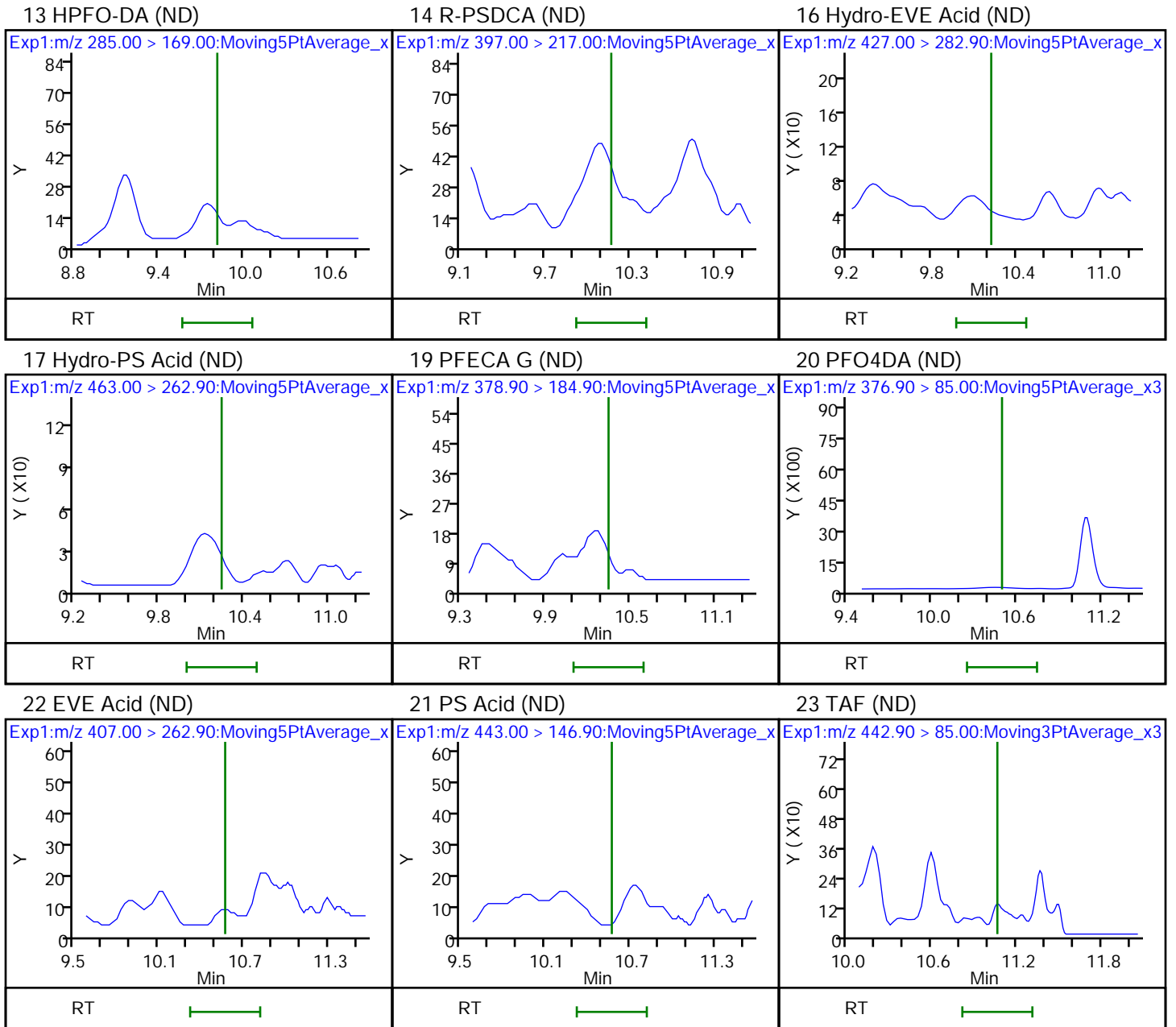
M - Manually Integrated



Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_024.d  
Injection Date: 05-Jan-2021 18:20:58 Instrument ID: A7\_N  
Lims ID: 320-68396-A-4-A Lab Sample ID: 320-68396-4  
Client ID: SEEP-C-EFFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 24 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

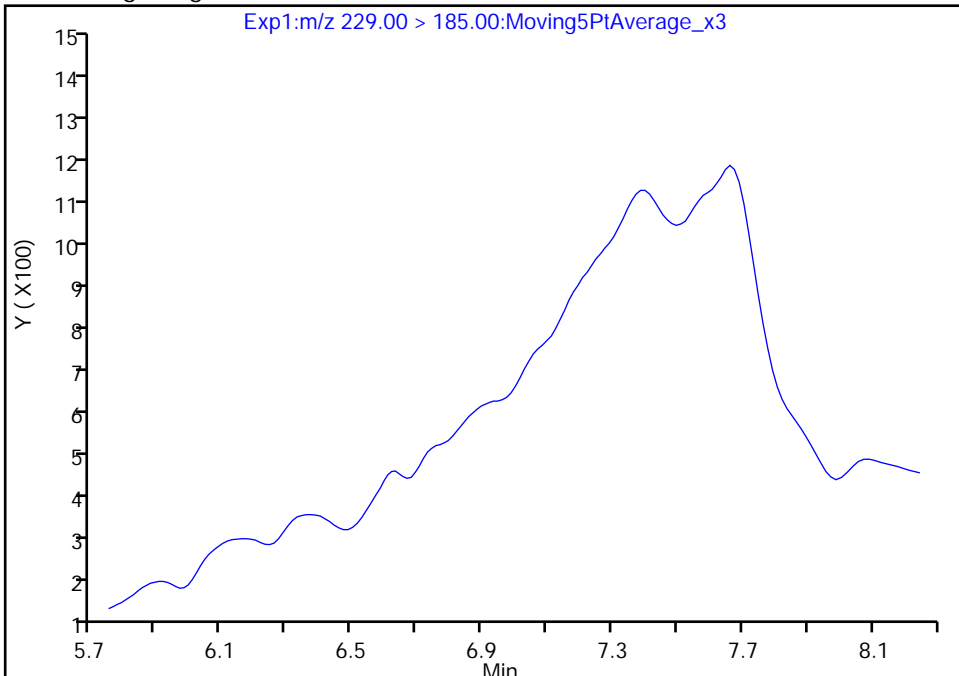
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_024.d  
Injection Date: 05-Jan-2021 18:20:58 Instrument ID: A7\_N  
Lims ID: 320-68396-A-4-A Lab Sample ID: 320-68396-4  
Client ID: SEEP-C-EFFLUENT-114-123020  
Operator ID: abservice ALS Bottle#: 24 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

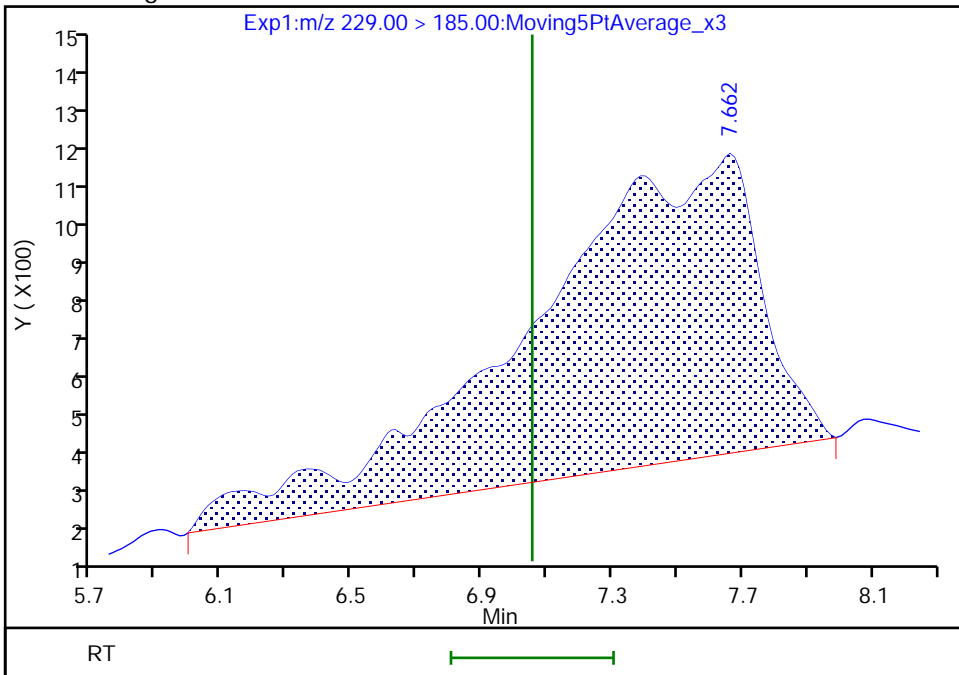
Not Detected  
Expected RT: 7.05

Processing Integration Results



Manual Integration Results

RT: 7.66  
Area: 36956  
Amount: 0.003217  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:30:46  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-RAIN-EQBLK-123020 Lab Sample ID: 320-68396-5  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_025.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/30/2020 12:45  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 18:38  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_025.d  
 Lims ID: 320-68396-A-5-A  
 Client ID: SEEP-C-RAIN-EQBLK-123020  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 18:38:32 ALS Bottle#: 25 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-5-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 10:31:46 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 10:31:46  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PMPA										M
229.00 > 185.00	7.676	7.054	0.622		37590	0.003272			31.2	M
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.734	9.812	-0.078		1391687	0.2823		113	40365	
13 HPFO-DA										M
285.00 > 169.00	9.734	9.812	-0.078	1.000	1121	0.000177			33.7	M

**QC Flag Legend**

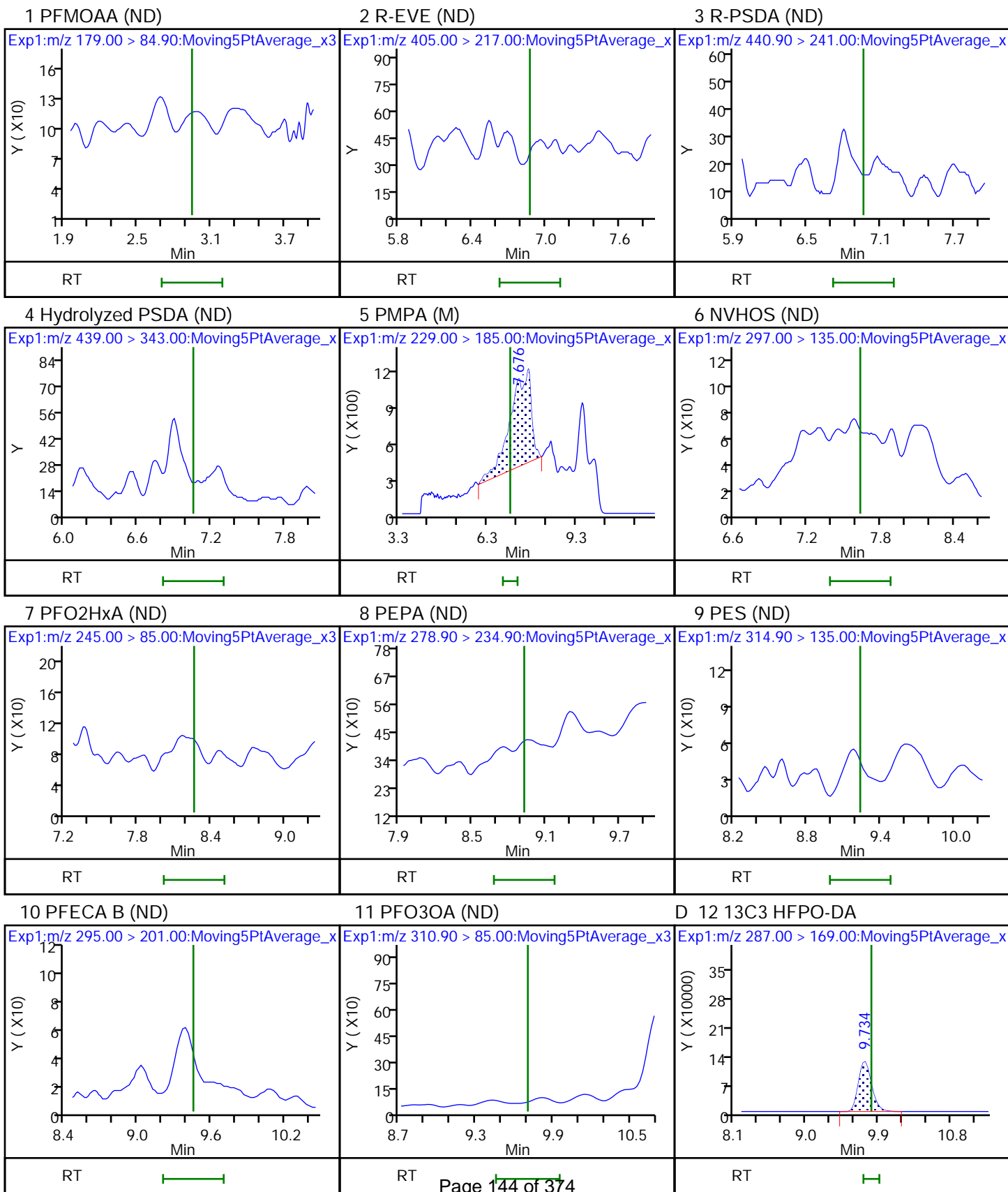
Processing Flags

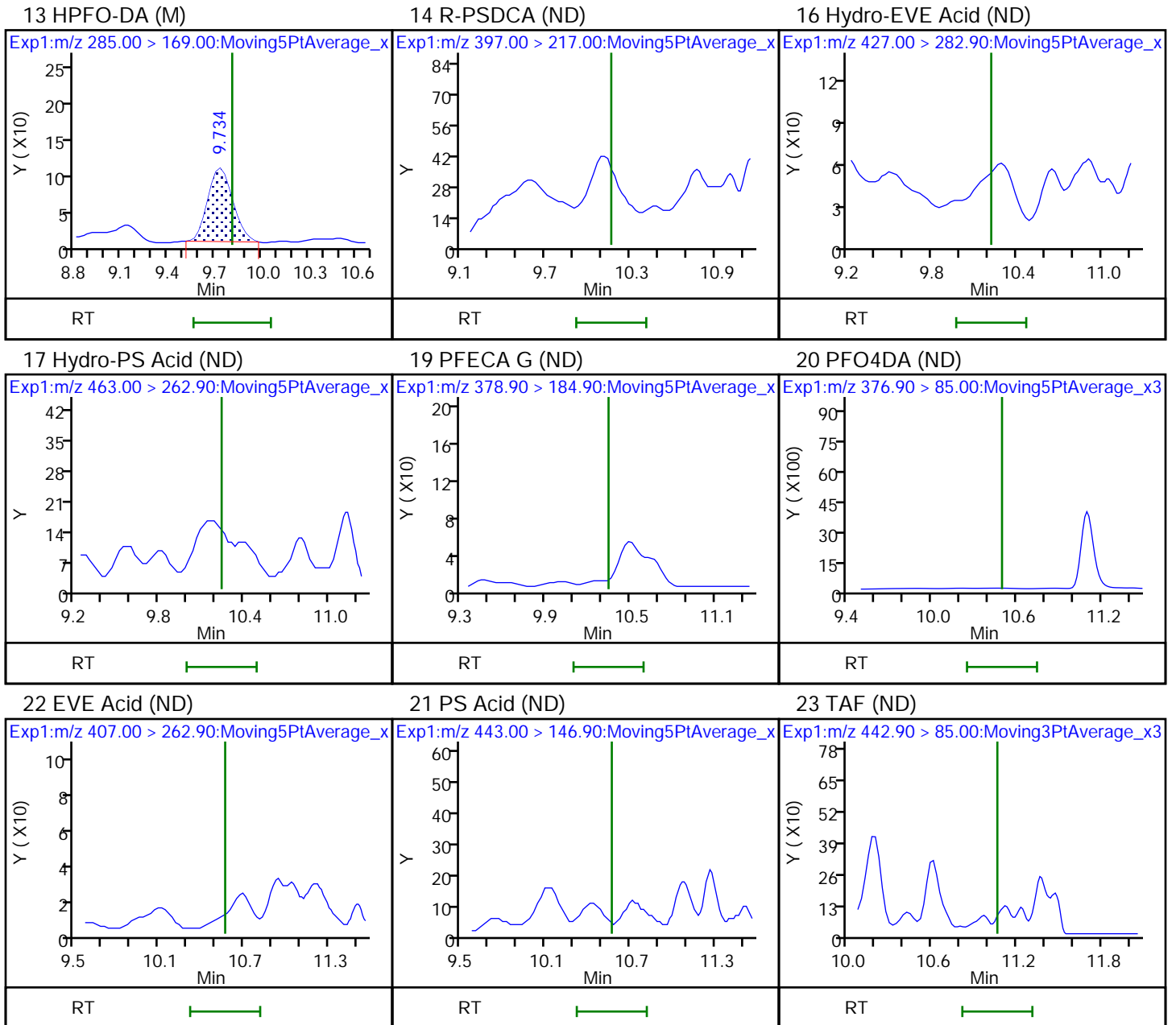
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_025.d  
Injection Date: 05-Jan-2021 18:38:32 Instrument ID: A7\_N  
Lims ID: 320-68396-A-5-A Lab Sample ID: 320-68396-5  
Client ID: SEEP-C-RAIN-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 25 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

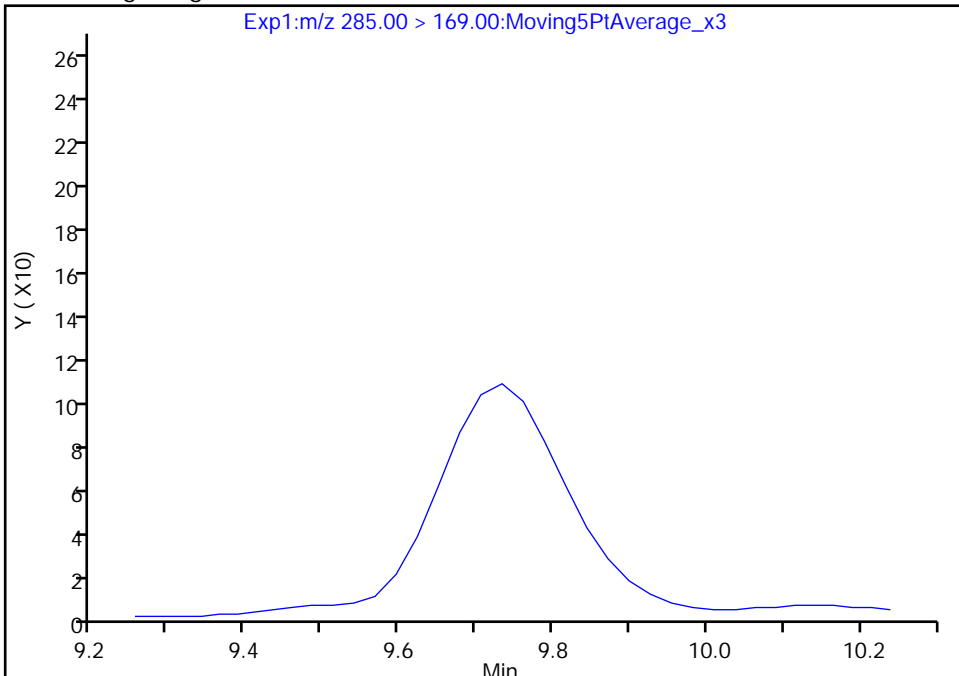
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_025.d  
Injection Date: 05-Jan-2021 18:38:32 Instrument ID: A7\_N  
Lims ID: 320-68396-A-5-A Lab Sample ID: 320-68396-5  
Client ID: SEEP-C-RAIN-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 25 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

13 HPFO-DA, CAS: 13252-13-6

Signal: 1

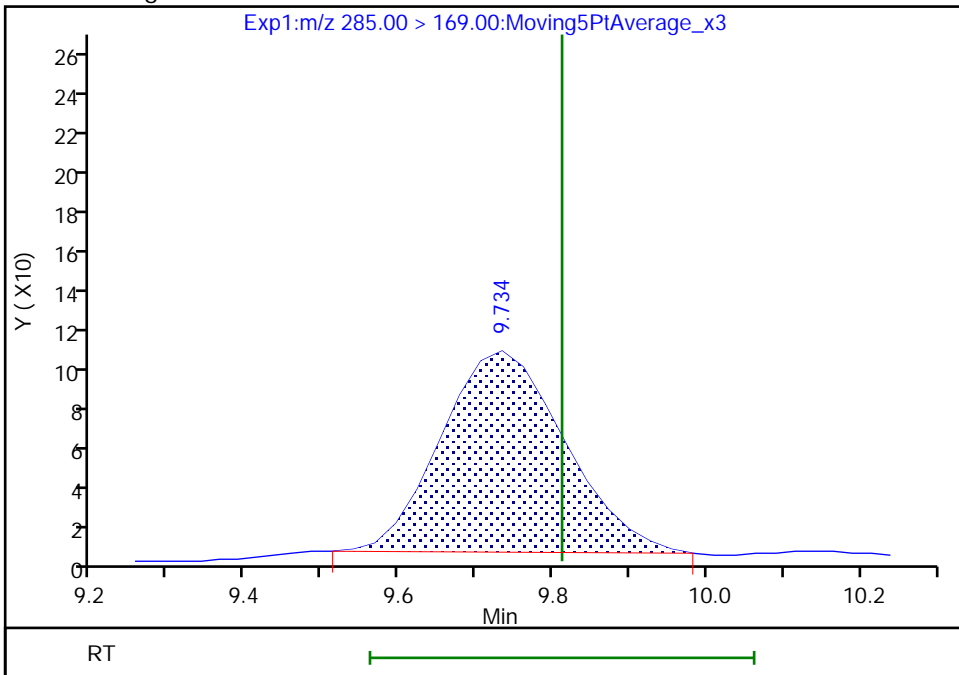
Not Detected  
Expected RT: 9.81

Processing Integration Results



Manual Integration Results

RT: 9.73  
Area: 1121  
Amount: 0.000177  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:31:38  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

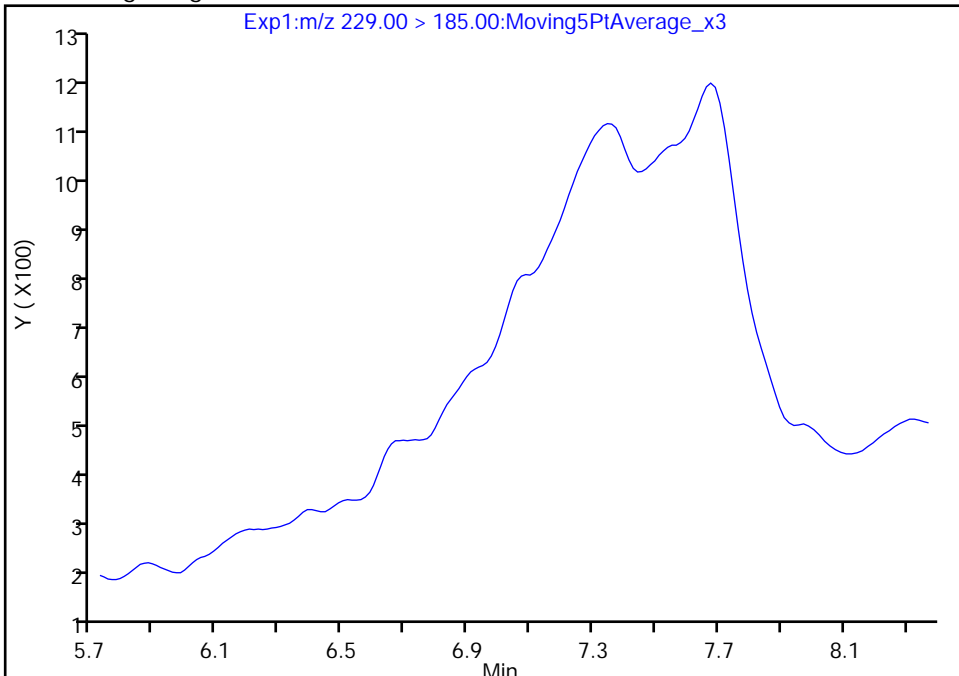
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_025.d  
Injection Date: 05-Jan-2021 18:38:32 Instrument ID: A7\_N  
Lims ID: 320-68396-A-5-A Lab Sample ID: 320-68396-5  
Client ID: SEEP-C-RAIN-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 25 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

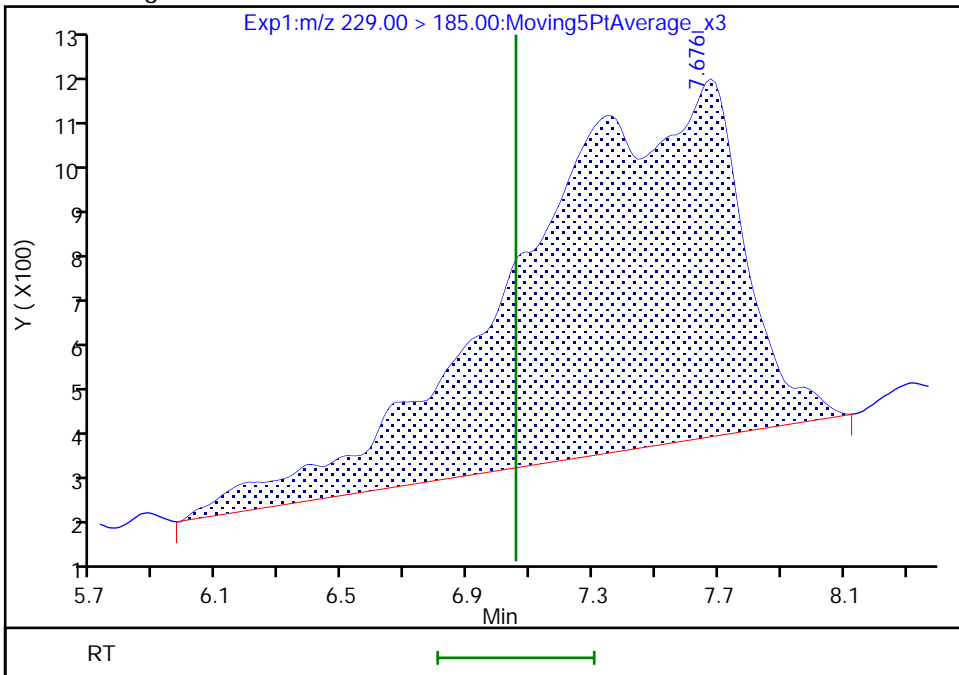
Not Detected  
Expected RT: 7.05

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 37590  
Amount: 0.003272  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:31:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-EQBLK-123020 Lab Sample ID: 320-68396-6  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_026.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/30/2020 12:50  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 18:56  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_026.d  
 Lims ID: 320-68396-A-6-A  
 Client ID: SEEP-C-EQBLK-123020  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 18:56:09 ALS Bottle#: 26 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-6-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 10:49:06 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 10:49:29

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PMPA										M
229.00 > 185.00	7.676	7.054	0.622		42001	0.003656			37.1	M
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.723	9.812	-0.089		1346289	0.2731		109	38468	
13 HPFO-DA										M
285.00 > 169.00	9.723	9.812	-0.089	1.000	1156	0.000189			34.3	M

**QC Flag Legend**

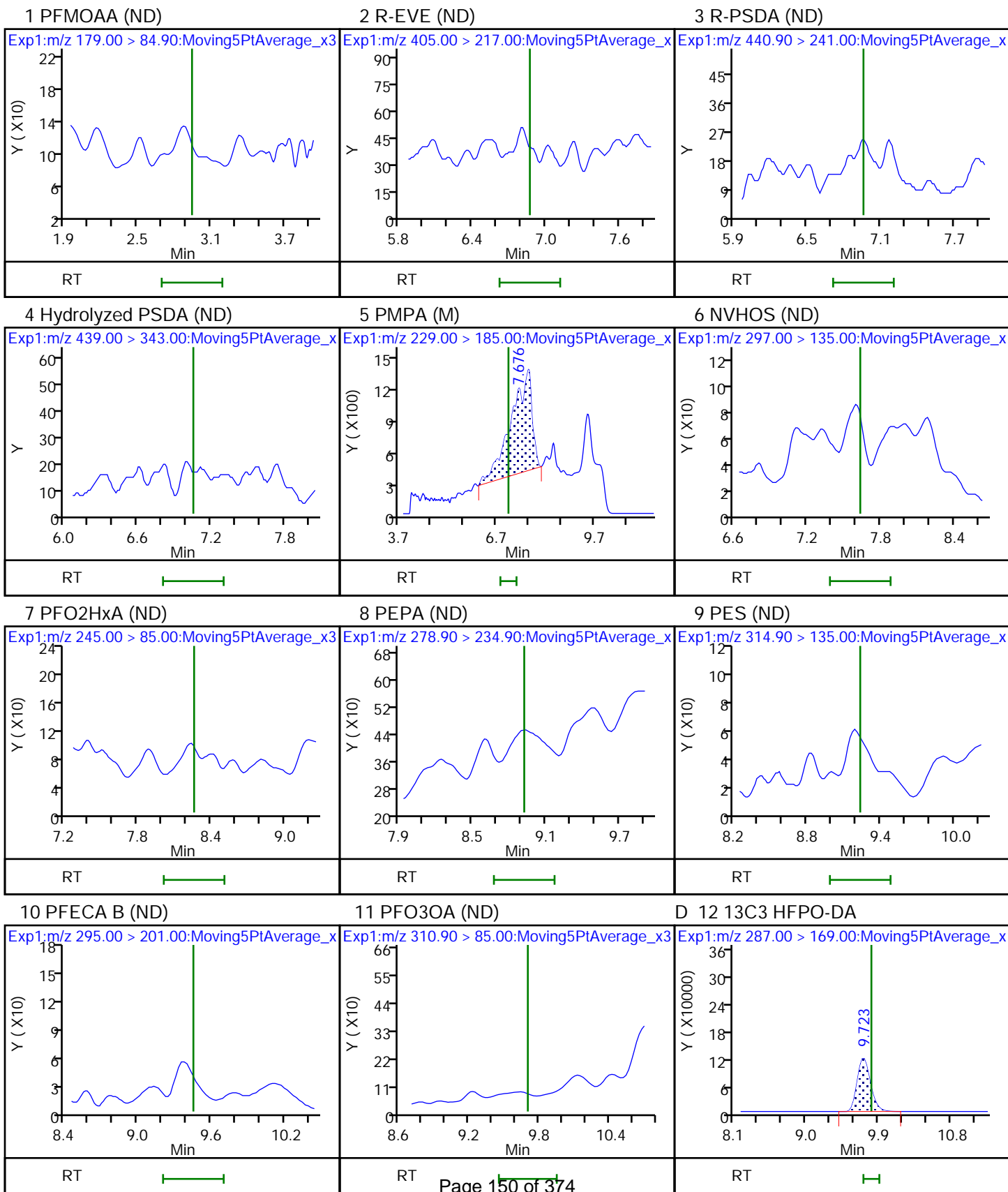
Processing Flags

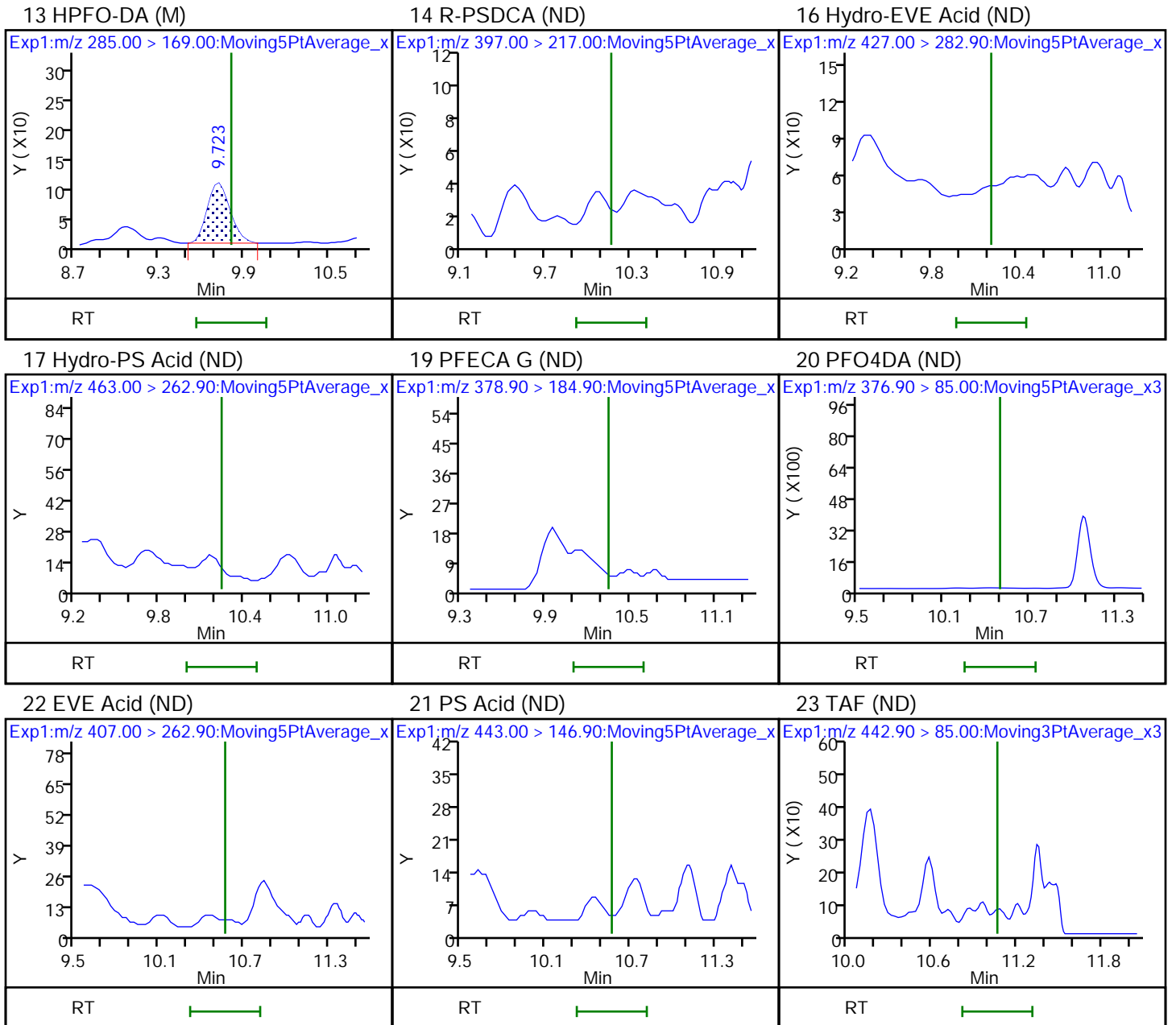
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_026.d  
Injection Date: 05-Jan-2021 18:56:09 Instrument ID: A7\_N  
Lims ID: 320-68396-A-6-A Lab Sample ID: 320-68396-6  
Client ID: SEEP-C-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 26 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

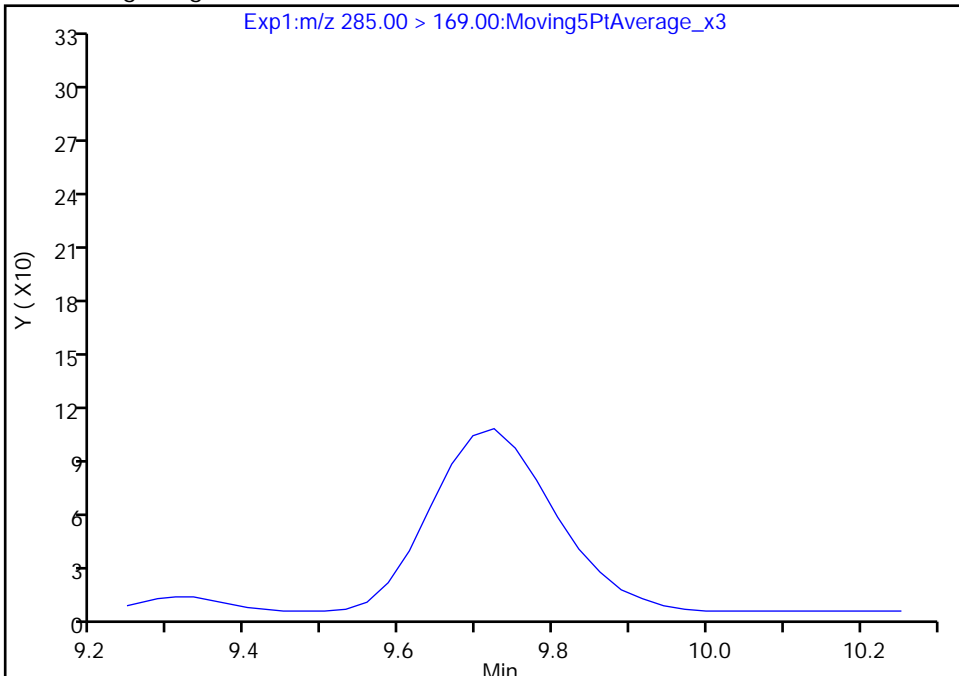
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_026.d  
Injection Date: 05-Jan-2021 18:56:09 Instrument ID: A7\_N  
Lims ID: 320-68396-A-6-A Lab Sample ID: 320-68396-6  
Client ID: SEEP-C-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 26 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

13 HPFO-DA, CAS: 13252-13-6

Signal: 1

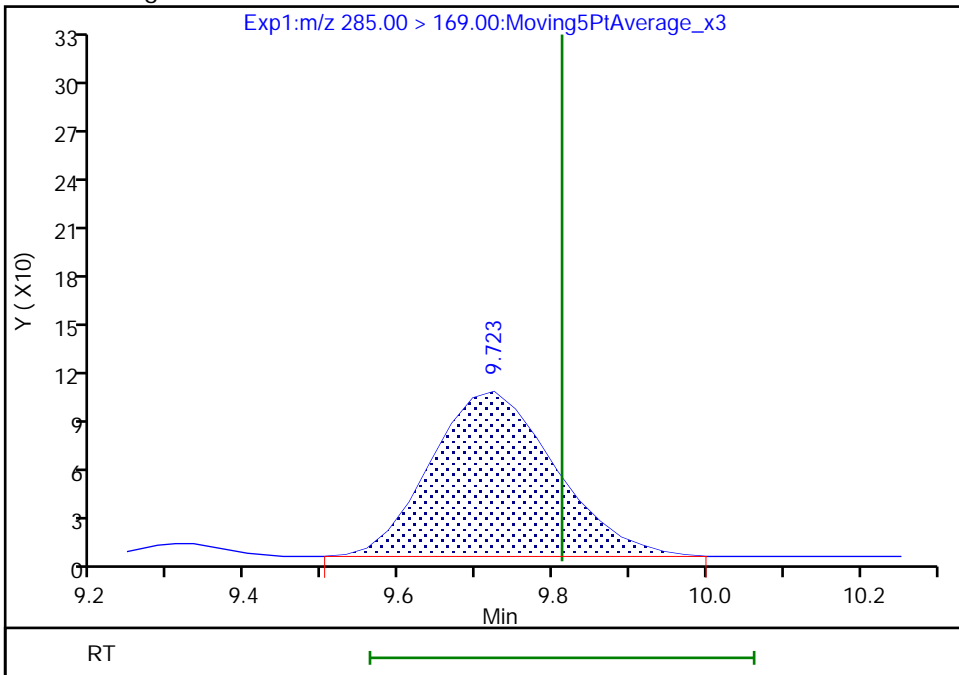
Not Detected  
Expected RT: 9.81

Processing Integration Results



Manual Integration Results

RT: 9.72  
Area: 1156  
Amount: 0.000189  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:32:28  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

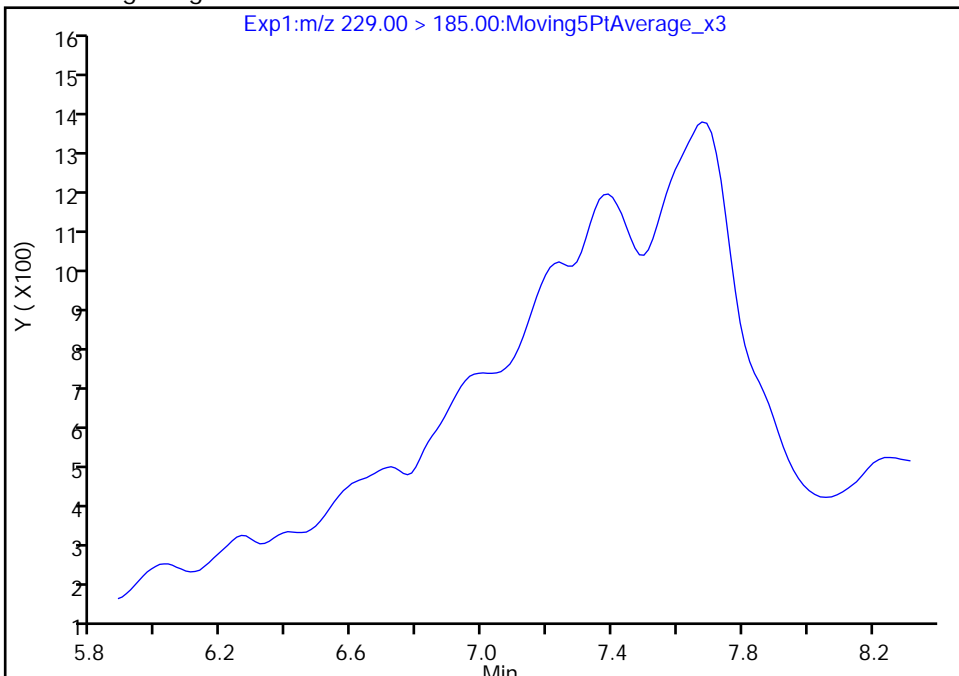
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Injection Date: 05-Jan-2021 18:56:09 Instrument ID: A7\_N  
Lims ID: 320-68396-A-6-A Lab Sample ID: 320-68396-6  
Client ID: SEEP-C-EQBLK-123020  
Operator ID: abservice ALS Bottle#: 26 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

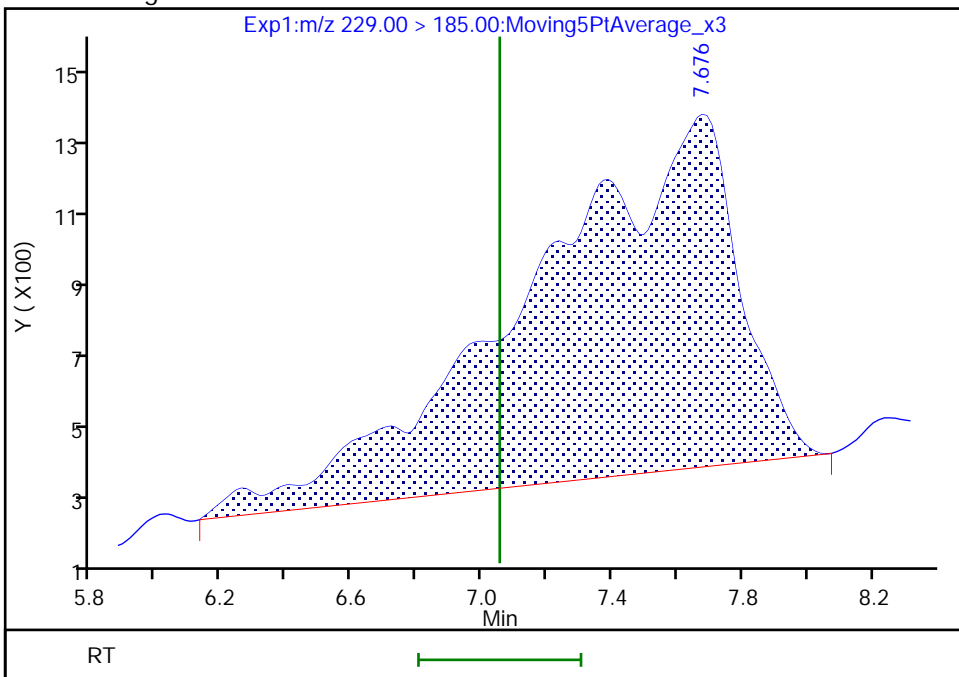
Not Detected  
Expected RT: 7.05

Processing Integration Results



Manual Integration Results

RT: 7.68  
Area: 42001  
Amount: 0.003656  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:32:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-123020 Lab Sample ID: 320-68396-7  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_027.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/30/2020 15:20  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 19:13  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		25-150



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_027.d  
 Lims ID: 320-68396-A-7-A  
 Client ID: SEEP-C-FBLK-123020  
 Sample Type: Client  
 Inject. Date: 05-Jan-2021 19:13:44 ALS Bottle#: 27 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68396-a-7-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 10:49:06 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 10:49:06  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 PMPA										M
229.00 > 185.00	7.691	7.054	0.637		35417	0.003083		30.0		M
D 12 13C3 HFPO-DA										a
287.00 > 169.00	9.709	9.812	-0.103		1267631	0.2572		103	36924	a

**QC Flag Legend**

Processing Flags

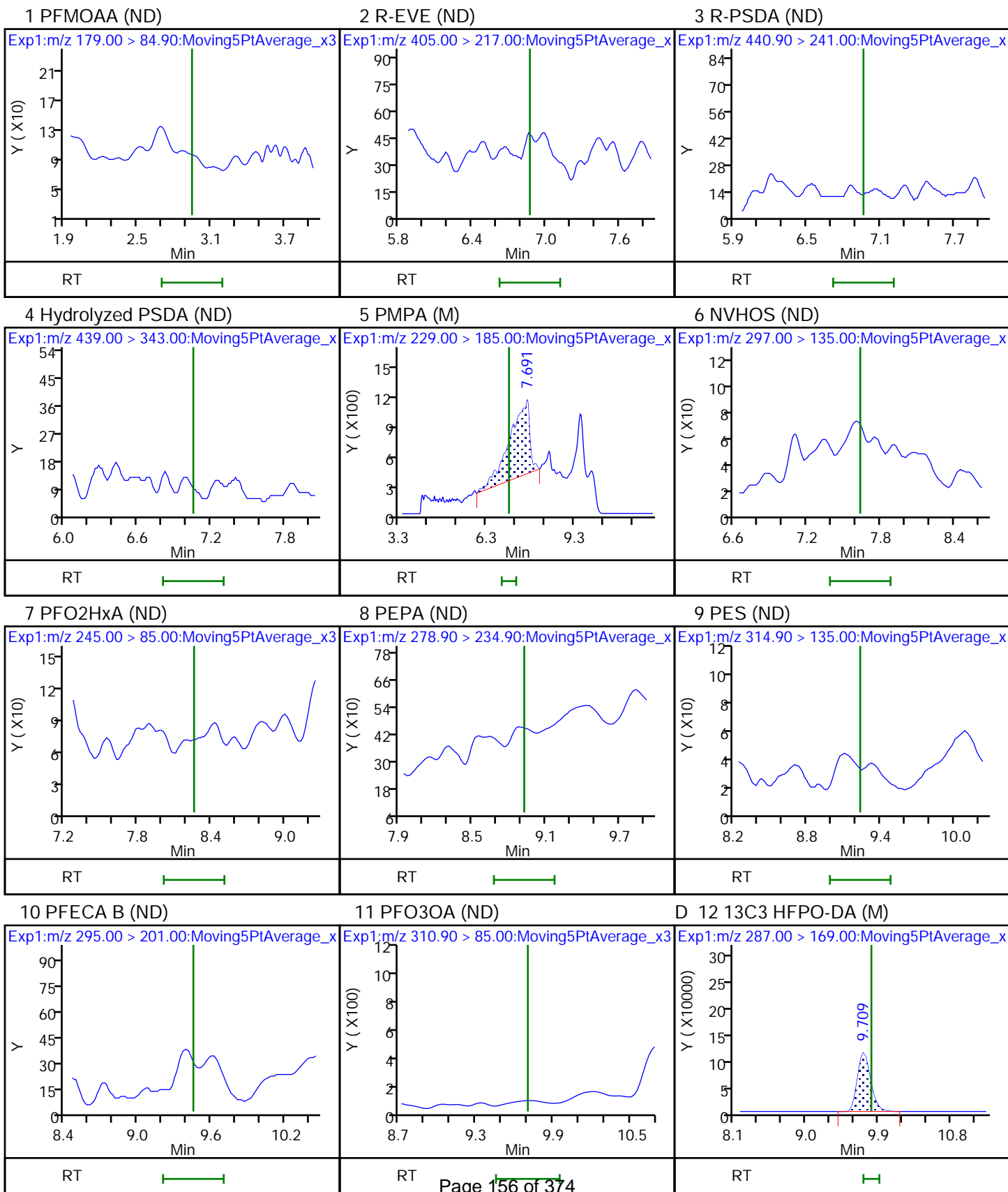
Review Flags

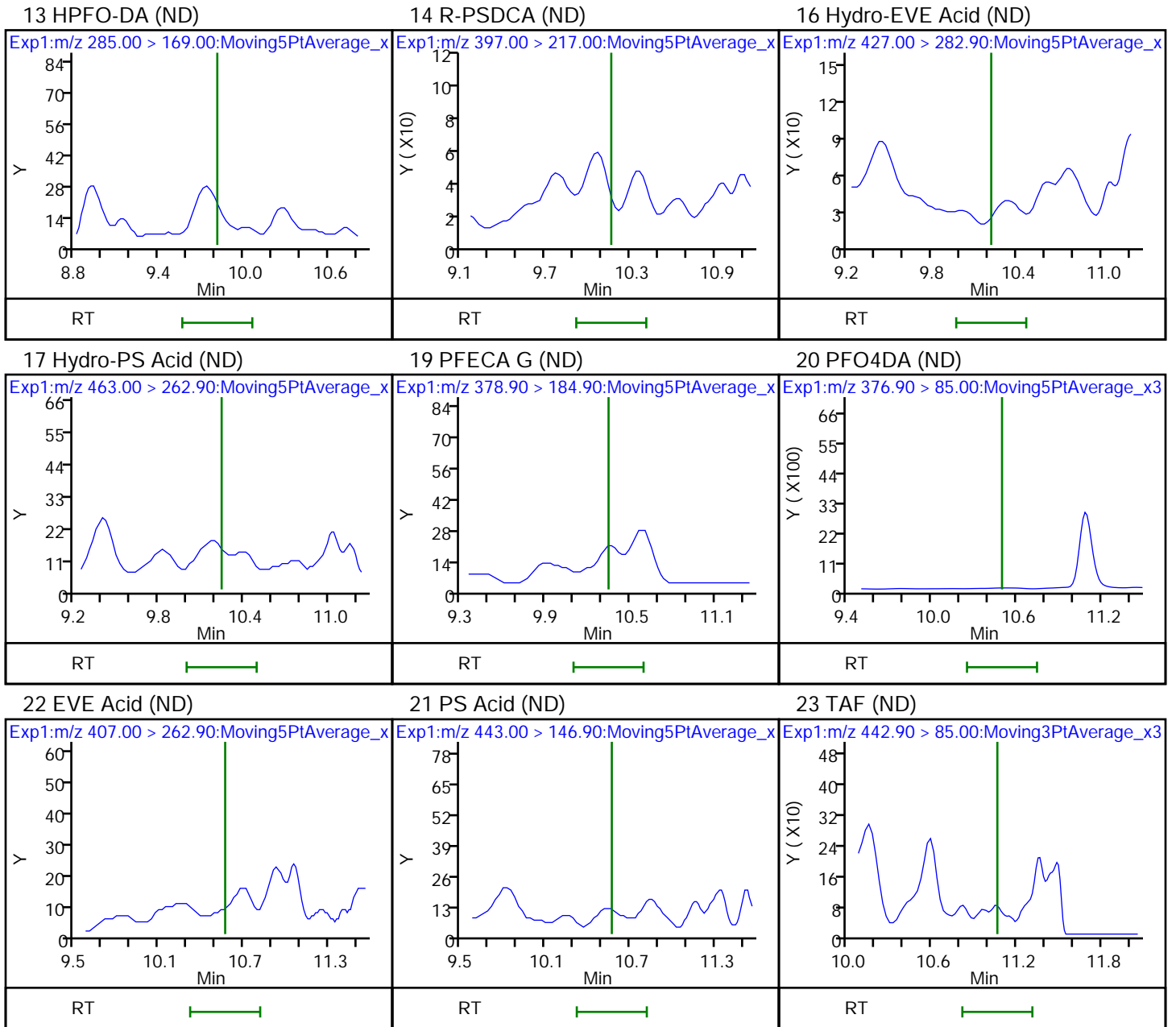
M - Manually Integrated

a - User Assigned ID

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_027.d  
Injection Date: 05-Jan-2021 19:13:44 Instrument ID: A7\_N  
Lims ID: 320-68396-A-7-A Lab Sample ID: 320-68396-7  
Client ID: SEEP-C-FBLK-123020  
Operator ID: abservice ALS Bottle#: 27 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

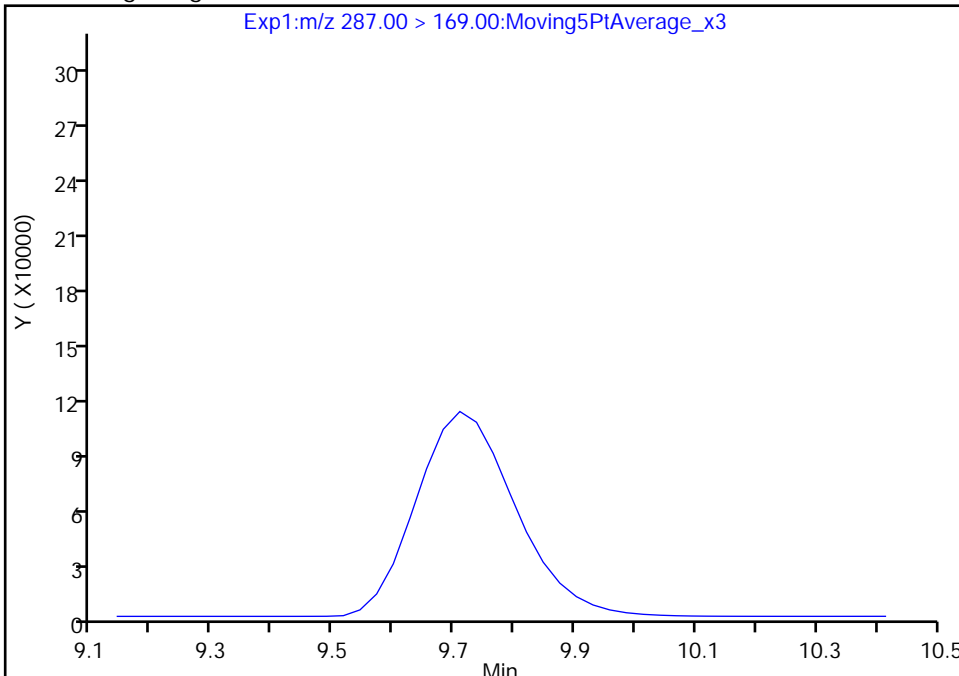
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_027.d  
Injection Date: 05-Jan-2021 19:13:44 Instrument ID: A7\_N  
Lims ID: 320-68396-A-7-A Lab Sample ID: 320-68396-7  
Client ID: SEEP-C-FBLK-123020  
Operator ID: abservice ALS Bottle#: 27 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 12 13C3 HFPO-DA, CAS: STL02255

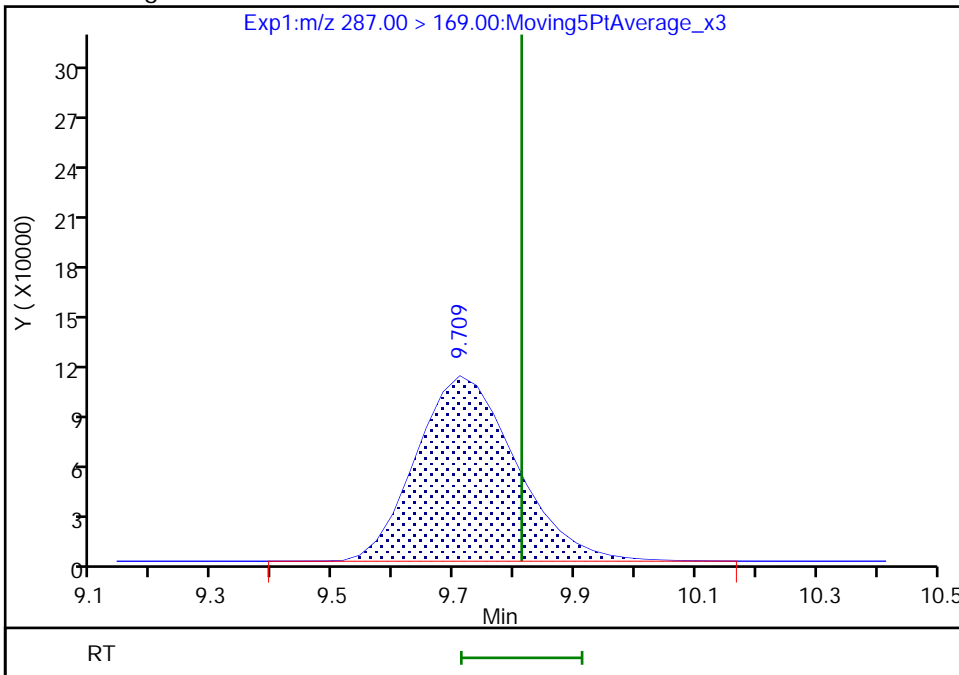
Signal: 1

Not Detected  
Expected RT: 9.81

Processing Integration Results



Manual Integration Results



RT: 9.71  
Area: 1267631  
Amount: 0.257180  
Amount Units: ng/ml

Eurofins TestAmerica, Sacramento

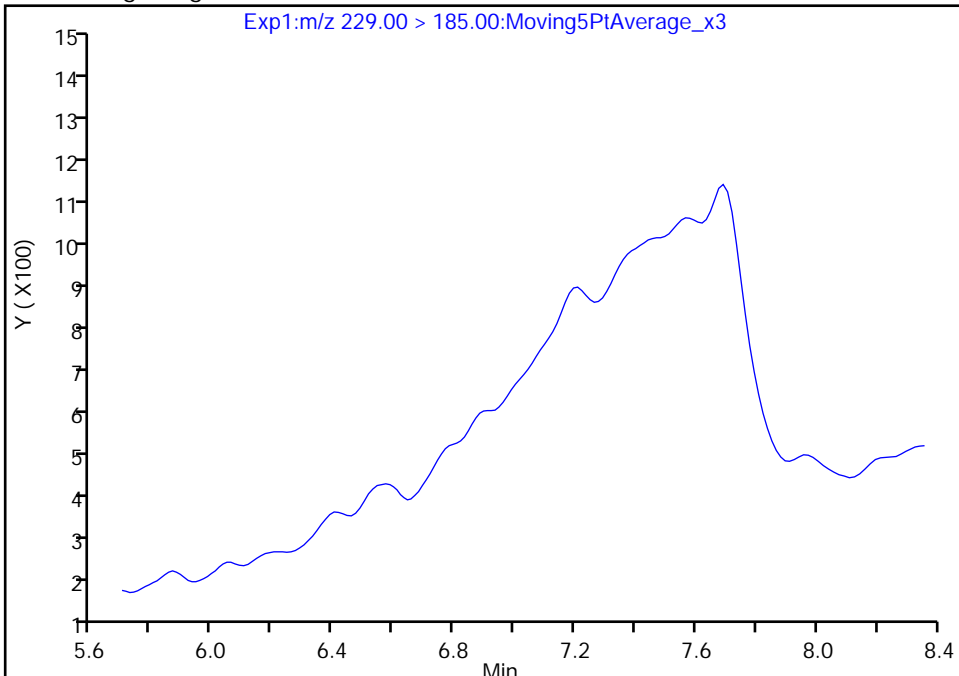
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_027.d  
Injection Date: 05-Jan-2021 19:13:44 Instrument ID: A7\_N  
Lims ID: 320-68396-A-7-A Lab Sample ID: 320-68396-7  
Client ID: SEEP-C-FBLK-123020  
Operator ID: abservice ALS Bottle#: 27 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

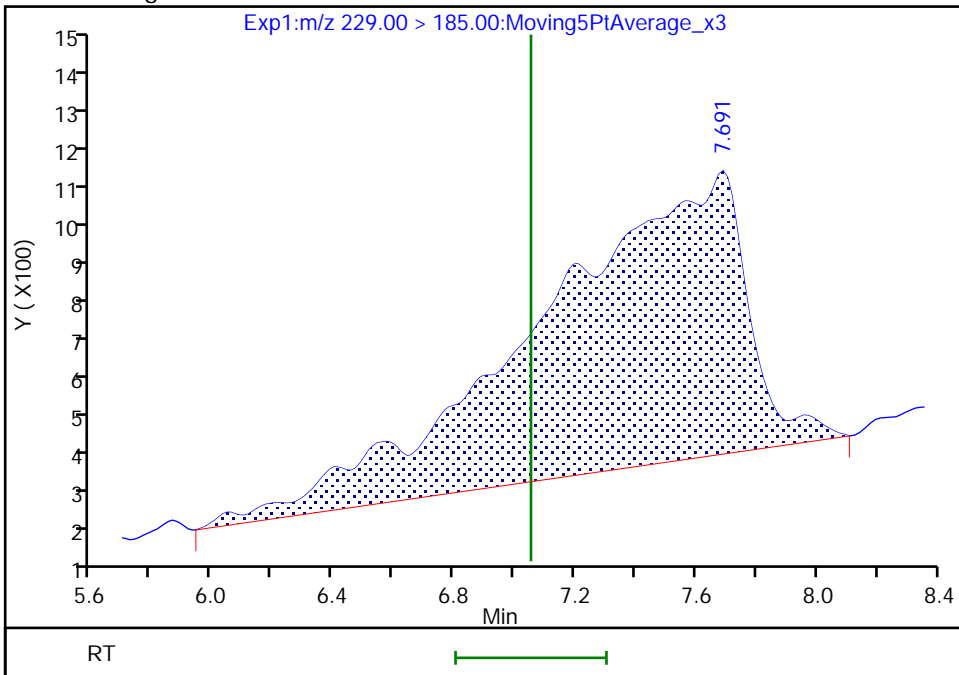
Not Detected  
Expected RT: 7.05

Processing Integration Results



Manual Integration Results

RT: 7.69  
Area: 35417  
Amount: 0.003083  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 10:37:32  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	3.330	2.820	2.715	2.785	2.803	2.680	2.785	2.855	++++	2.715	2.535 - 3.035	2.832
R-EVE	6.872	6.669	6.622	6.657	6.657	6.599	6.657	6.695	++++	++++	6.407 - 6.907	6.679
R-PSDA	6.948	6.758	6.720	6.758	6.758	6.695	6.746	6.784	++++	6.708	6.496 - 6.996	6.764
Hydrolyzed PSDA	7.031	6.872	6.821	6.859	6.860	6.809	6.860	6.885	++++	++++	6.610 - 7.110	6.875
PMPA	++++	6.885	6.872	6.885	6.898	6.847	6.885	6.911	++++	6.873	6.635 - 7.135	6.882
NVHOS	7.580	7.470	7.457	7.470	7.471	7.443	7.457	7.471	++++	7.444	7.207 - 7.707	7.474
PFO2HxA	8.161	8.098	8.092	8.092	8.092	8.075	8.094	8.100	++++	8.078	7.844 - 8.344	8.098
PEPA	8.787	8.757	8.753	8.744	8.753	8.737	8.739	8.750	++++	8.745	8.489 - 8.989	8.752
PES	9.081	9.066	9.061	9.071	9.062	9.042	9.044	9.040	++++	++++	8.794 - 9.294	9.058
PFECA B	9.296	9.281	9.276	9.286	9.276	9.276	9.279	9.273	++++	9.249	9.029 - 9.529	9.277
PFO3OA	9.541	9.520	9.541	9.531	9.514	9.513	9.516	9.511	++++	9.506	9.266 - 9.766	9.521
HFPO-DA	9.651	9.630	9.624	9.641	9.624	9.624	9.627	9.621	++++	9.616	9.377 - 9.877	9.629
R-PSDCA	9.982	9.989	9.982	10.000	9.982	9.982	9.957	9.980	++++	++++	9.707 - 10.207	9.982
Perfluoroheptanoic acid	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	10.002	9.763 - 10.263	10.031
Hydro-EVE Acid	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	++++	9.763 - 10.263	10.035
Hydro-PS Acid	10.065	10.072	10.065	10.081	10.066	10.065	10.042	10.062	++++	10.031	9.792 - 10.292	10.061
PFECA G	10.166	10.171	10.166	10.155	10.166	10.166	10.145	10.140	++++	++++	9.895 - 10.395	10.159
PFO4DA	10.315	10.295	10.315	10.304	10.290	10.290	10.269	10.298	++++	10.287	10.019 - 10.519	10.296
PS Acid	10.365	10.370	10.364	10.378	10.365	10.364	10.344	10.373	++++	10.344	10.094 - 10.594	10.363
EVE Acid	10.365	10.370	10.364	10.378	10.365	10.364	10.344	10.373	++++	++++	10.094 - 10.594	10.365
PFO5DA	10.850	10.874	10.850	10.863	10.855	10.858	10.847	10.857	++++	++++	10.597 - 11.097	10.857
13C3 HFPO-DA	9.624	9.630	9.624	9.641	9.624	9.624	9.599	9.621	++++	9.616	9.499 - 9.699	9.623
13C4 PFHpA	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	10.002	9.913 - 10.113	10.031

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	15572000 11475680 ++++ 11572493	12325600 12420280 ++++ 11572493	12465200 11708910	11818300 11850320	Ave		12356531.4			10.2		50.0				
R-EVE	5033000 5197080 ++++	4671600 5436780 ++++	4740400 5134870	4847000 5138716	Ave		5024930.75			5.1		50.0				
R-PSDA	2507000 2465680 ++++	2344000 2734600 2882265	2364200 2637430	2406200 2640972	Ave		2553594.11			7.2		50.0				
Hydrolyzed PSDA	10806000 11438320 ++++	10949200 12361600 ++++	10822600 12007810	10918200 11775652	Ave		11384922.8			5.3		50.0				
PMPA	++++ 11300240 ++++	12650800 11993800 11757457	10446200 11371980	10992400 11402812	Ave		11489461.1			5.8		50.0				
NVHOS	15983000 16010680 ++++	16111600 16968560 15902147	14905000 16423100	15441900 16331924	Ave		16008656.8			3.7		50.0				
PFO2HxA	15170000 14763400 ++++	14973200 15208500 14299772	13660000 14217070	14261000 14783428	Ave		14592930.0			3.5		50.0				
PEPA	9844000 9517840 ++++	9332400 10050340 9581725	9225800 9599260	9172200 9170048	Ave		9499290.33			3.2		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	88499000 87859480 ++++	91227600 92658160 ++++	84816400 88644720	85989100 82689636	Ave		87798012.0			3.7		50.0				
PFECA B	10402000 11236120 ++++	10674800 11421120 10196243	9401800 10935480	11003800 10771912	Ave		10671475.0			5.7		50.0				
PFO3OA	12596000 11325000 ++++	12370800 13459600 11031957	12303600 11790780	12113400 12669552	Ave		12184521.0			6.0		50.0				
R-PSDCA	106019000 116172760 ++++	108852800 115800860 ++++	105847800 110286160	105889800 87246736	Ave		107014490			8.4		50.0				
Hydro-EVE Acid	59929000 56860120 ++++	57760800 61858080 ++++	53283200 58974260	55250100 54965908	Ave		57360183.5			5.0		50.0				
Hydro-PS Acid	34522000 35811000 ++++	37266000 37270380 30040413	35099200 36917420	36960200 37599700	Ave		35720701.4			6.7		50.0				
PFECA G	27058000 26816440 ++++	24112400 25289640 ++++	27057200 24575170	25326700 22043916	Ave		25284933.3			6.9		50.0				
PFO4DA	9462000 13751920 ++++	16191600 15886960 12159262	14528200 13079020	13774900 12346940	Ave		13464533.6			15.3		50.0				
PS Acid	16387000 16283760 ++++	18195200 17858040 12275588	17644800 15578360	17779400 16751176	Ave		16528147.1			11.0		50.0				
EVE Acid	53143000 56436280 ++++	54499600 58945840 ++++	55317600 54333770	58990300 47640104	Ave		54913311.8			6.6		50.0				
PFO5DA	3214000 3779560 ++++	3584400 3311160 ++++	4600800 3491510	3338600 3343720	Ave		3582968.75			12.5		50.0				
13C3 HFPO-DA	4985264 4983720 ++++	4989472 5092868 4612708	5150312 4765288	4899344 4881772	Ave		4928972.00			3.3		50.0				
13C4 PFHpA	24302212 23636128 ++++	21609884 22867568 19012996	23373716 22560980	24555608 22649104	Ave		22729799.6			7.3		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.



FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	0.9867	1.3145	1.0476	1.1387	1.1450	AveID		1.1371			8.1		35.0				
	1.1885	1.1625	1.1626	++++	1.0879												
Perfluoroheptanoic acid	1.5371	1.3278	1.1407	1.0131	1.0721	L2ID	0.0006	0.9997			8.5			0.9920		0.9900	
	1.1218	0.9705	0.9876	++++	0.8560												

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
PFMOAA	Ave	15572	30814	62326	118183	286892	0.00100	0.00250	0.00500	0.0100	0.0250
		621014	1170891	2962580	+++++	11572493	0.0500	0.100	0.250	+++++	1.00
R-EVE	Ave	5033	11679	23702	48470	129927	0.00100	0.00250	0.00500	0.0100	0.0250
		271839	513487	1284679	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
R-PSDA	Ave	2507	5860	11821	24062	61642	0.00100	0.00250	0.00500	0.0100	0.0250
		136730	263743	660243	+++++	2882265	0.0500	0.100	0.250	+++++	1.00
Hydrolyzed PSDA	Ave	10806	27373	54113	109182	285958	0.00100	0.00250	0.00500	0.0100	0.0250
		618080	1200781	2943913	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PMPA	Ave	+++++	31627	52231	109924	282506	+++++	0.00250	0.00500	0.0100	0.0250
		599690	1137198	2850703	+++++	11757457	0.0500	0.100	0.250	+++++	1.00
NVHOS	Ave	15983	40279	74525	154419	400267	0.00100	0.00250	0.00500	0.0100	0.0250
		848428	1642310	4082981	+++++	15902147	0.0500	0.100	0.250	+++++	1.00
PFO2HxA	Ave	15170	37433	68300	142610	369085	0.00100	0.00250	0.00500	0.0100	0.0250
		760425	1421707	3695857	+++++	14299772	0.0500	0.100	0.250	+++++	1.00
PEPA	Ave	9844	23331	46129	91722	237946	0.00100	0.00250	0.00500	0.0100	0.0250
		502517	959926	2292512	+++++	9581725	0.0500	0.100	0.250	+++++	1.00
PES	Ave	88499	228069	424082	859891	2196487	0.00100	0.00250	0.00500	0.0100	0.0250
		4632908	8864472	20672409	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PFECA B	Ave	10402	26687	47009	110038	280903	0.00100	0.00250	0.00500	0.0100	0.0250
		571056	1093548	2692978	+++++	10196243	0.0500	0.100	0.250	+++++	1.00
PFO3OA	Ave	12596	30927	61518	121134	283125	0.00100	0.00250	0.00500	0.0100	0.0250
		672980	1179078	3167388	+++++	11031957	0.0500	0.100	0.250	+++++	1.00
R-PSDCA	Ave	106019	272132	529239	1058898	2904319	0.00100	0.00250	0.00500	0.0100	0.0250
		5790043	11028616	21811684	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydro-EVE Acid	Ave	59929	144402	266416	552501	1421503	0.00100	0.00250	0.00500	0.0100	0.0250
		3092904	5897426	13741477	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydro-PS Acid	Ave	34522	93165	175496	369602	895275	0.00100	0.00250	0.00500	0.0100	0.0250
		1863519	3691742	9399925	+++++	30040413	0.0500	0.100	0.250	+++++	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	27058 1264482	60281 2457517	135286 5510979	253267 ++++	670411 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 ++++	0.0250 ++++
PFO4DA	Ave	9462 794348	40479 1307902	72641 3086735	137749 ++++	343798 12159262	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 ++++	0.0250 1.00
PS Acid	Ave	16387 892902	45488 1557836	88224 4187794	177794 ++++	407094 12275588	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 ++++	0.0250 1.00
EVE Acid	Ave	53143 2947292	136249 5433377	276588 11910026	589903 ++++	1410907 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 ++++	0.0250 ++++
PFO5DA	Ave	3214 165558	8961 349151	23004 835930	33386 ++++	94489 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 ++++	0.0250 ++++
13C3 HFPO-DA	Ave	1246316 1273217	1247368 1191322	1287578 1220443	1224836 ++++	1245930 1153177	0.250 0.250	0.250 0.250	0.250 0.250	0.250 ++++	0.250 0.250
13C4 PFHpA	Ave	6075553 5716892	5402471 5640245	5843429 5662276	6138902 ++++	5909032 4753249	0.250 0.250	0.250 0.250	0.250 0.250	0.250 ++++	0.250 0.250

Curve Type Legend:

Ave = Average

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	4919	16397	26977	55790	142656	0.00100	0.00250	0.00500	0.0100	0.0250
			302640	553958	1418910	+++++	5017951	0.0500	0.100	0.250	+++++	1.00
Perfluoroheptanoic acid		L2ID	37356	71734	133308	248784	633489	0.00100	0.00250	0.00500	0.0100	0.0250
			1282697	2189522	5592019	+++++	16274985	0.0500	0.100	0.250	+++++	1.00

Curve Type Legend:

AveID = Average isotope dilution  
 L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 15-Dec-2020 20:11:55 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (52  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:02:46 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 10:38:33

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.330	2.785	0.545		15572	0.001260		126	32.2	M
2 R-EVE										M
405.00 > 217.00	6.872	6.657	0.215		5033	0.001002		100	159	M
3 R-PSDA										M
440.90 > 241.00	6.948	6.746	0.202		2507	0.000982		98.2	96.3	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.031	6.860	0.171		10806	0.000949		94.9	323	M
5 PMPA										M
229.00 > 185.00	7.058	6.885	0.173		19682	0.001713		171	18.1	M
6 NVHOS										M
297.00 > 135.00	7.580	7.457	0.123		15983	0.000998		99.8	248	M
7 PFO2HxA										M
245.00 > 85.00	8.161	8.094	0.067		15170	0.001040		104	122	M
8 PEPA										M
278.90 > 234.90	8.787	8.739	0.048		9844	0.001036		104	54.5	M
9 PES										M
314.90 > 135.00	9.081	9.044	0.037		88499	0.001008		101	2063	M
10 PFECA B										M
295.00 > 201.00	9.296	9.279	0.017		10402	0.000975		97.5	378	M
11 PFO3OA										M
310.90 > 85.00	9.541	9.516	0.025		12596	0.001034		103	186	M
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1246316	0.2529		101	36563	M
13 HPFO-DA										M
285.00 > 169.00	9.651	9.627	0.025	1.003	4919	0.000868		86.8	147	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		106019	0.000991		99.1	3206	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		59929	0.001045		104	944	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	37356	0.000957	Target=0.00	95.7	693	
363.00 > 169.00	10.039	10.013	0.026	1.000	21222		1.76(0.00-0.00)	95.7	499	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		6075553	0.2673		107	186932	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		34522	0.000966		96.6	880	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		27058	0.001070		107	893	
20 PFO4DA										
376.90 > 85.00	10.315	10.269	0.046		9462	0.000703		70.3	95.3	
21 PS Acid										
443.00 > 146.90	10.365	10.344	0.020		16387	0.000991		99.1	549	
22 EVE Acid										
407.00 > 262.90	10.365	10.344	0.020		53143	0.000968		96.8	1744	
23 TAF										
442.90 > 85.00	10.850	10.847	0.003		3214	0.000897		89.7	11.1	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD1\_00052

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d

Injection Date: 15-Dec-2020 20:11:55

Instrument ID: A7\_N

Lims ID: IC STD 1

Client ID:

Operator ID: abservice

ALS Bottle#: 4

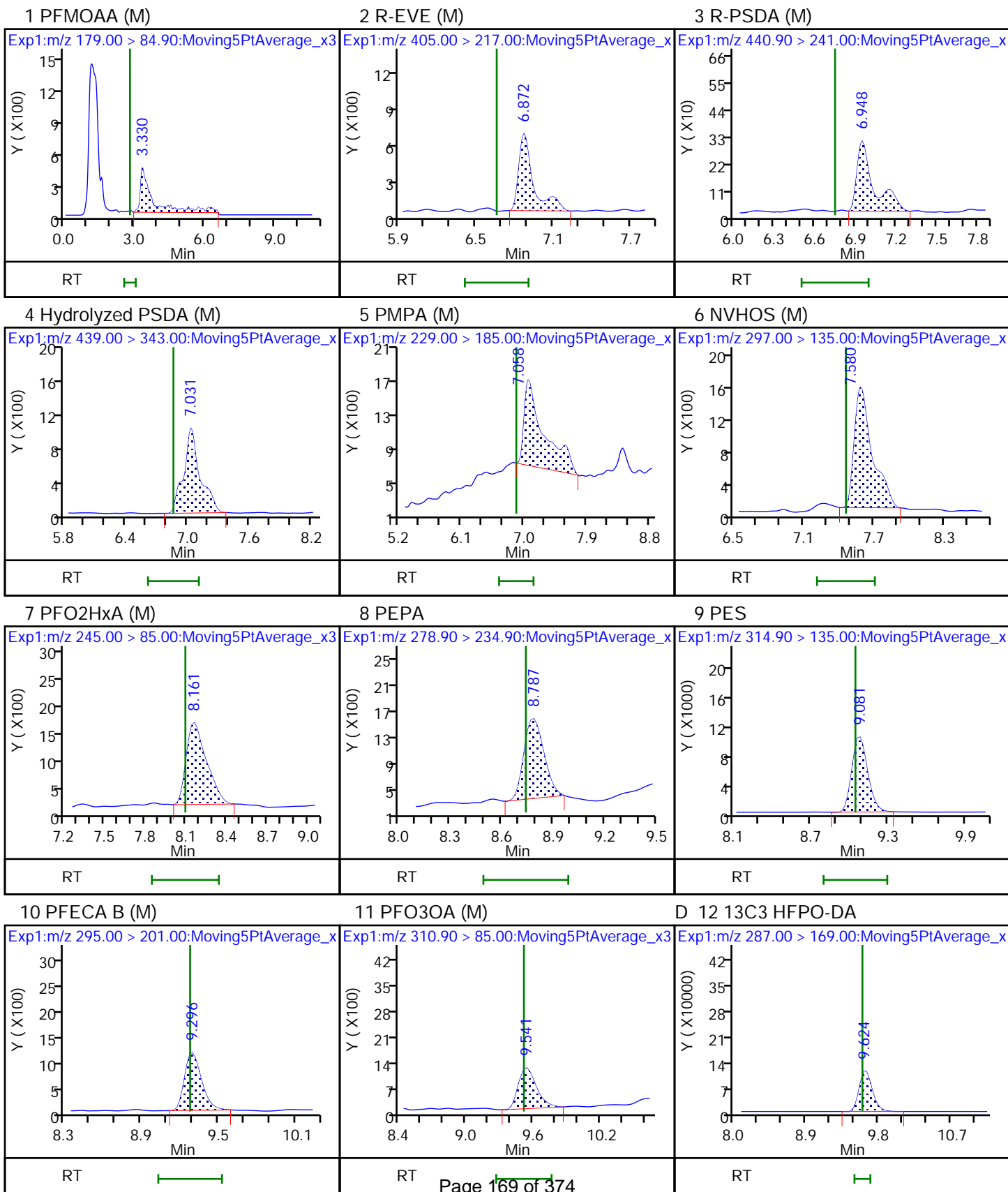
Worklist Smp#: 2

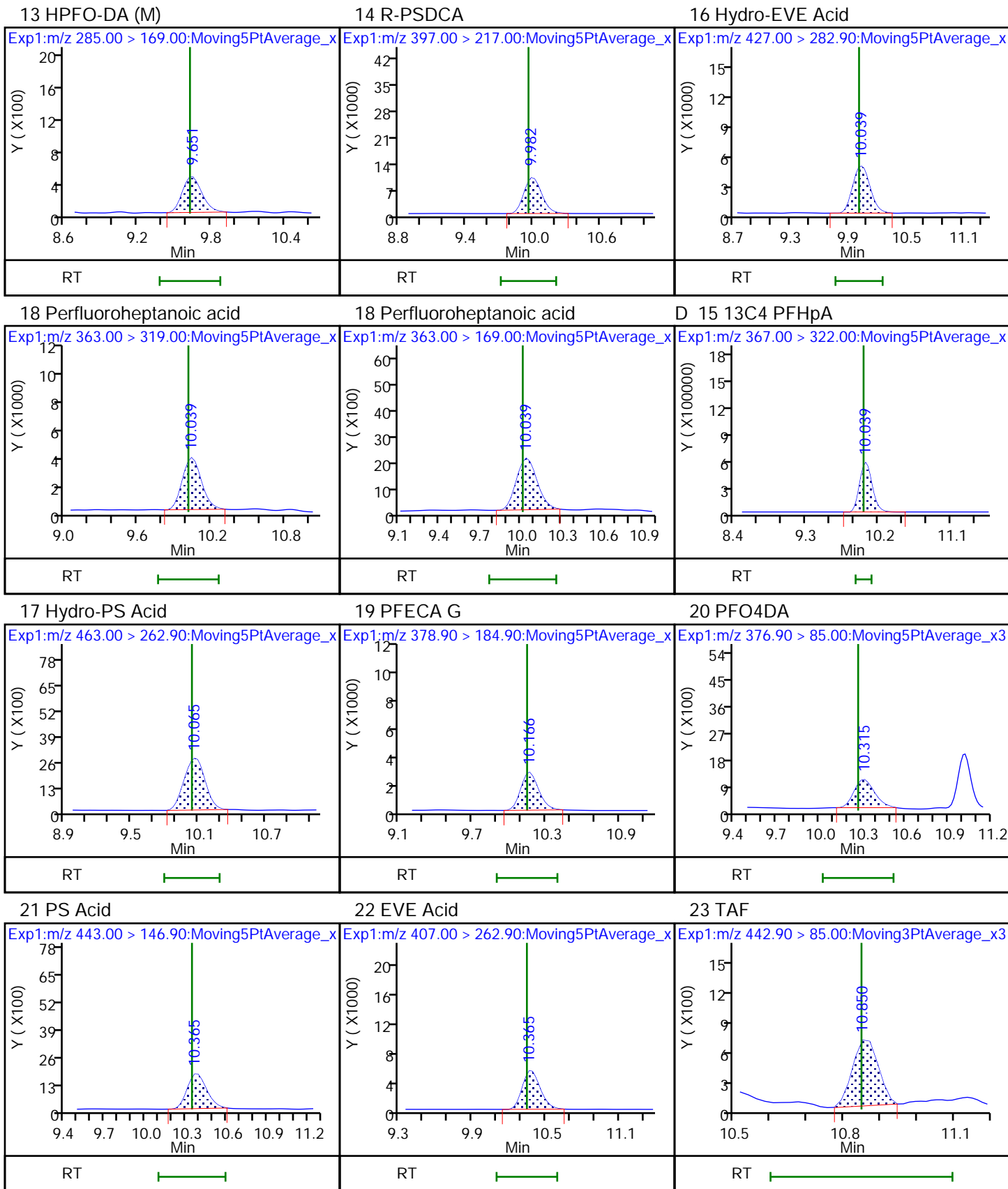
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

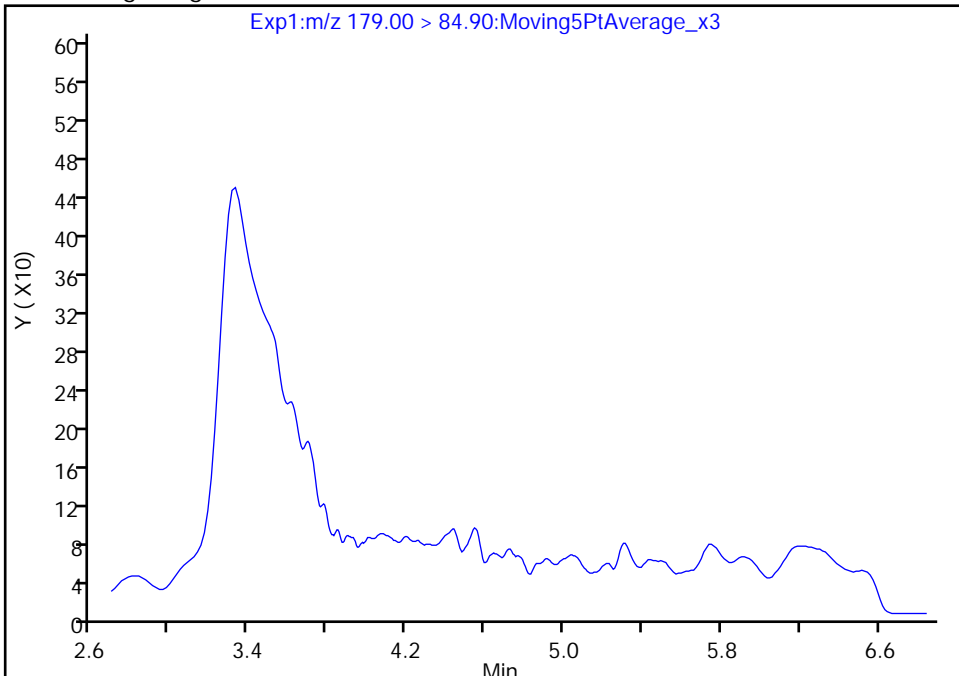
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Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

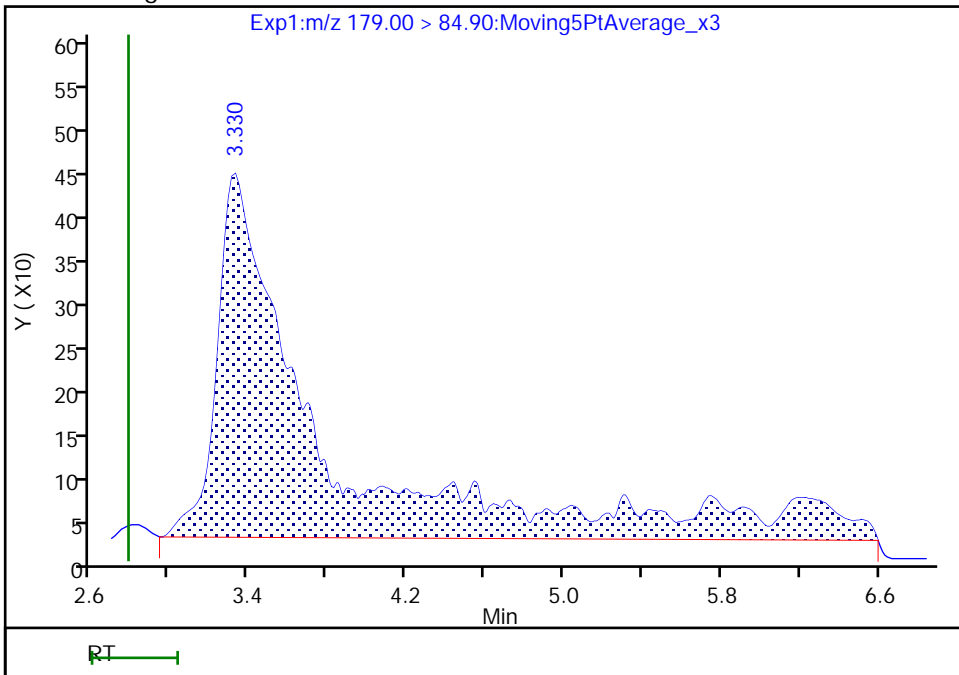
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 3.33  
Area: 15572  
Amount: 0.001260  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

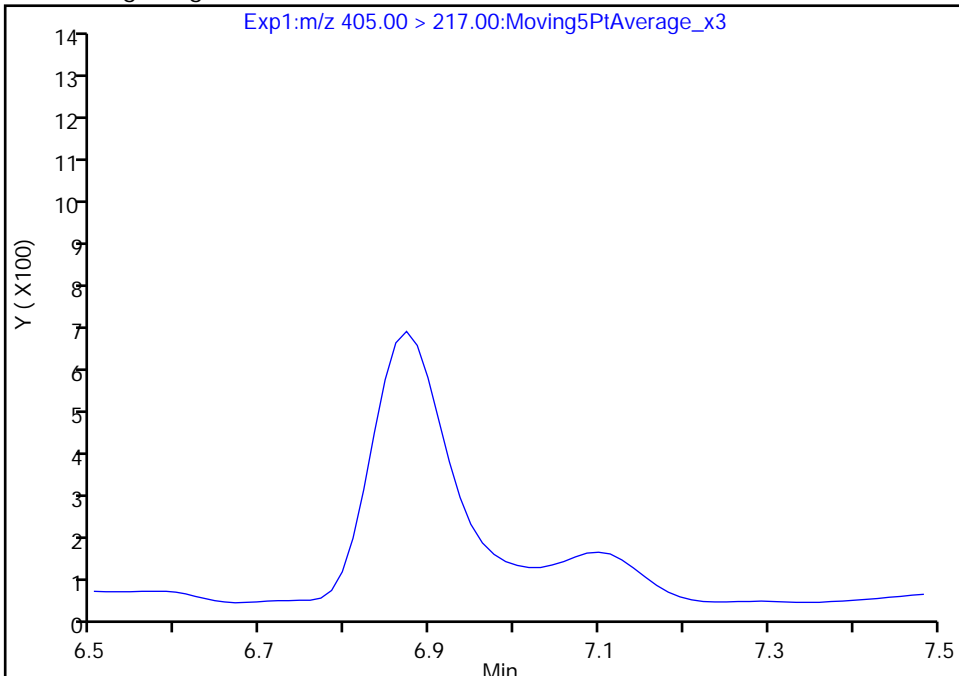
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

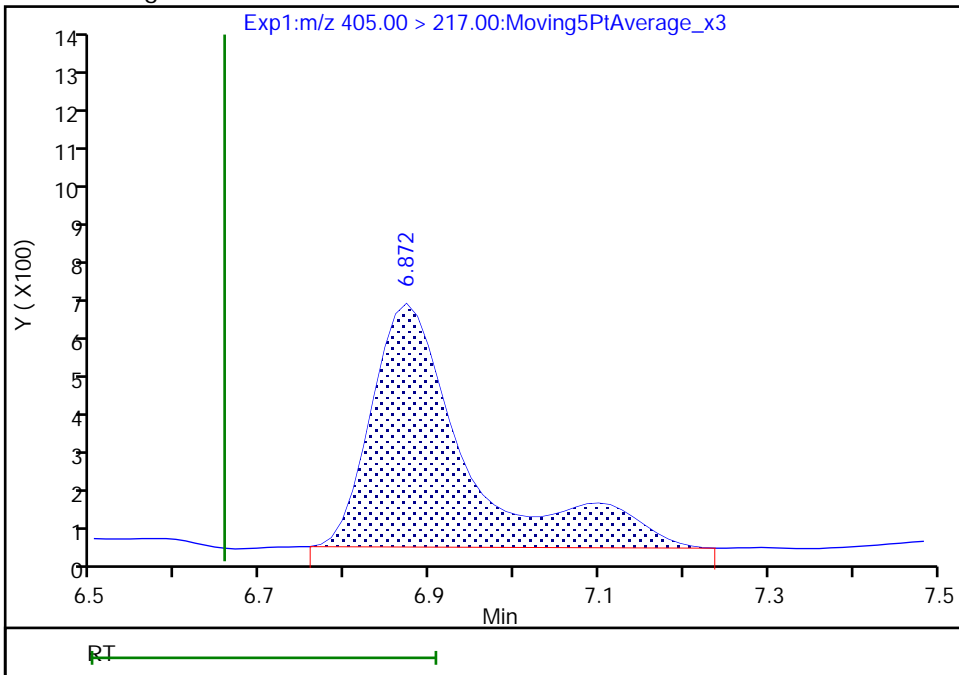
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 5033  
Amount: 0.001002  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

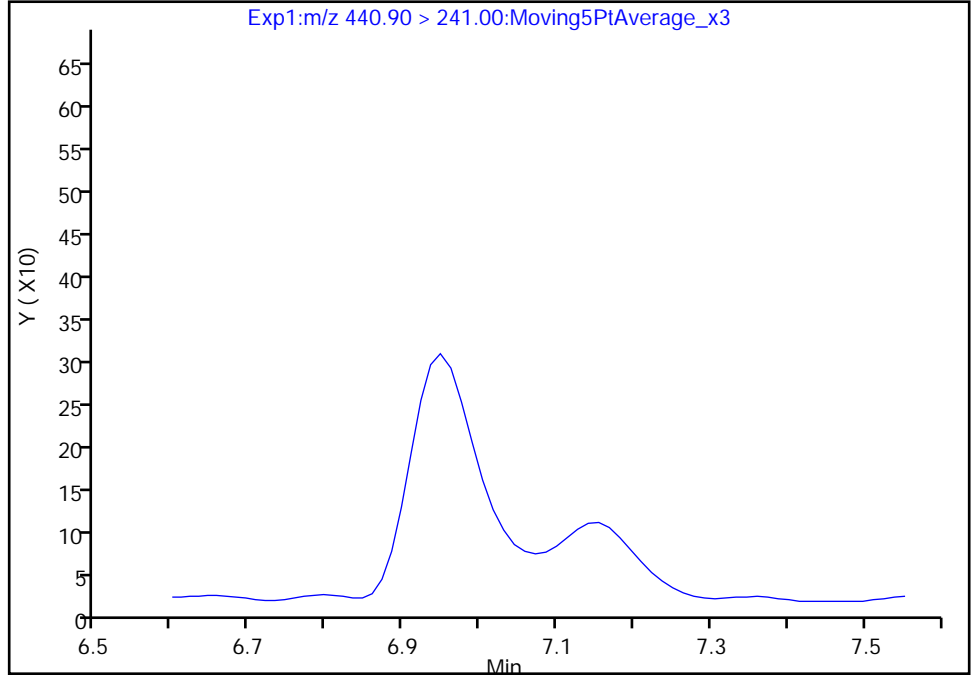
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Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

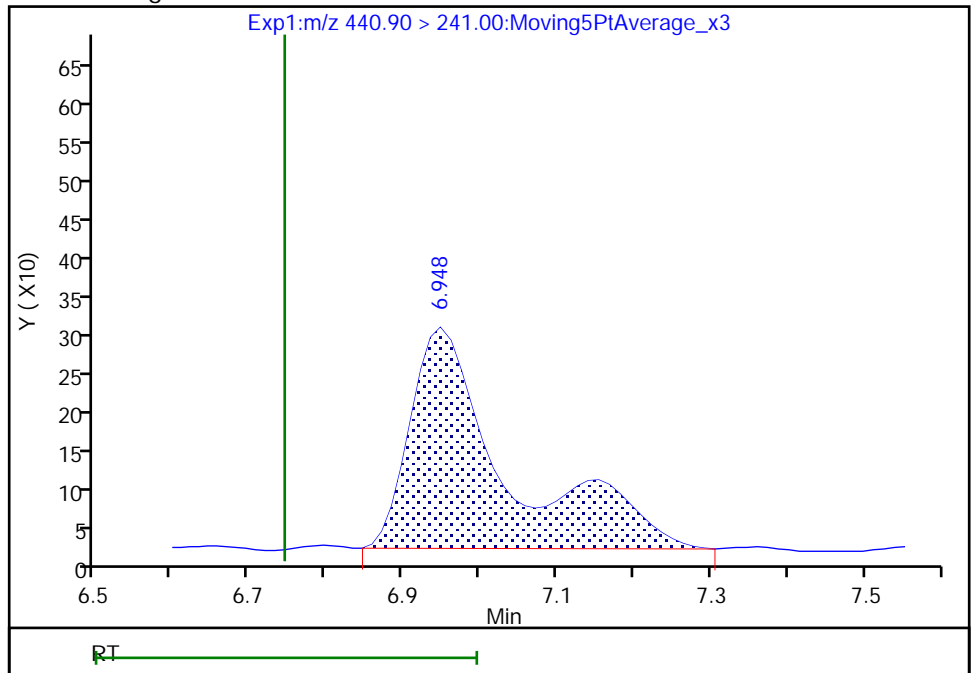
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.95  
Area: 2507  
Amount: 0.000982  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:21:02  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

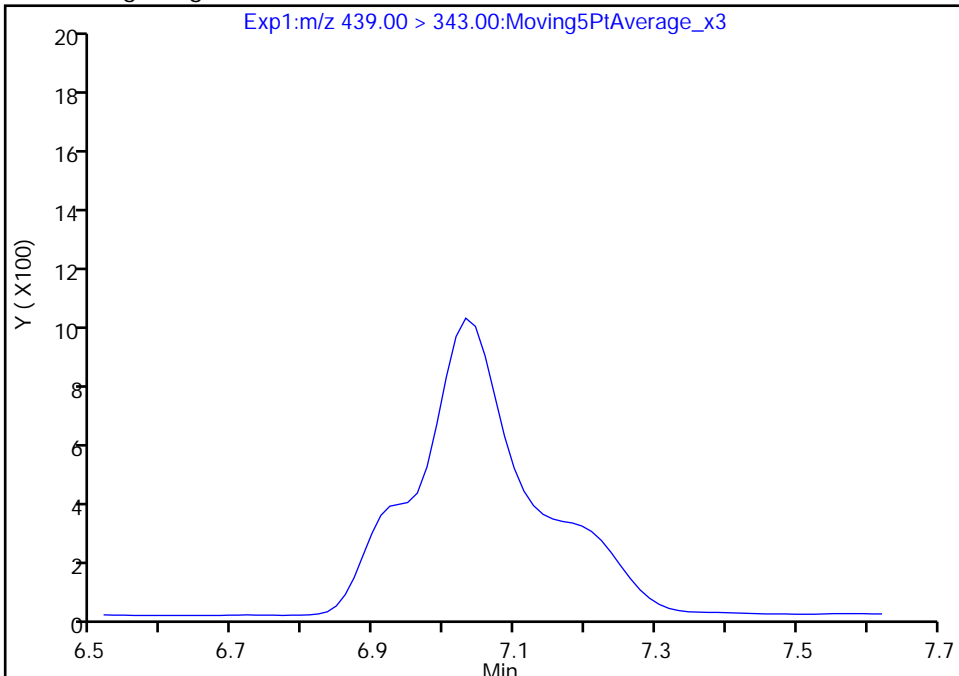
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Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

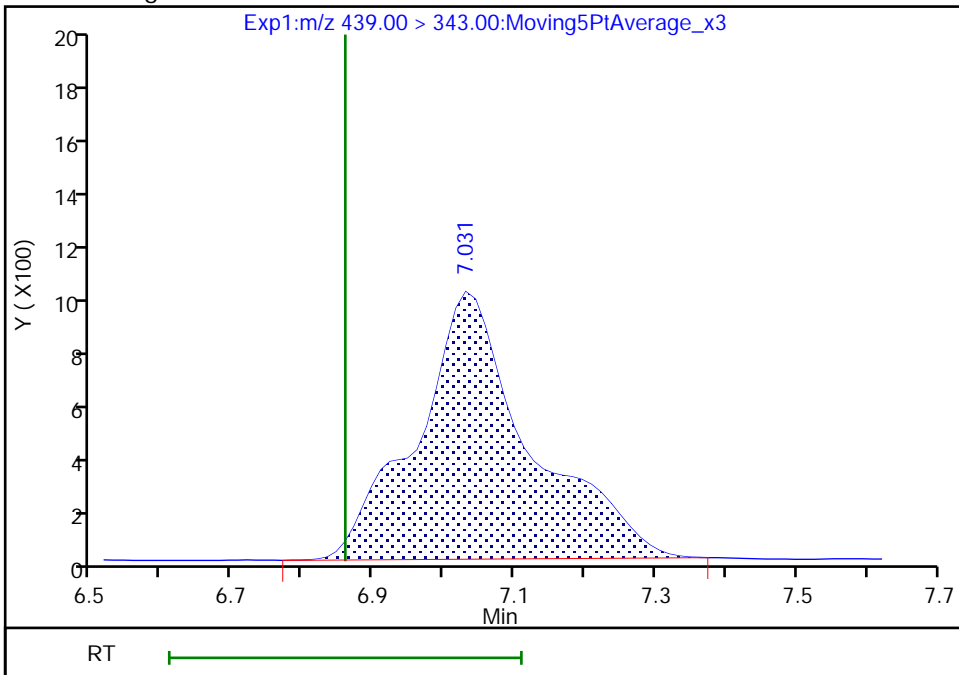
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 7.03  
Area: 10806  
Amount: 0.000949  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

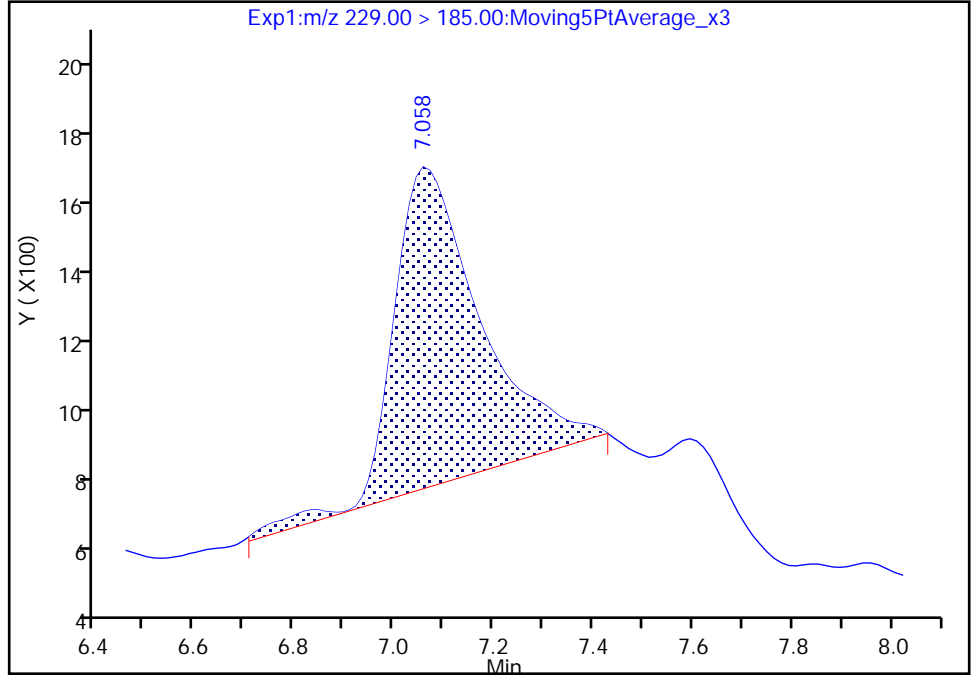
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

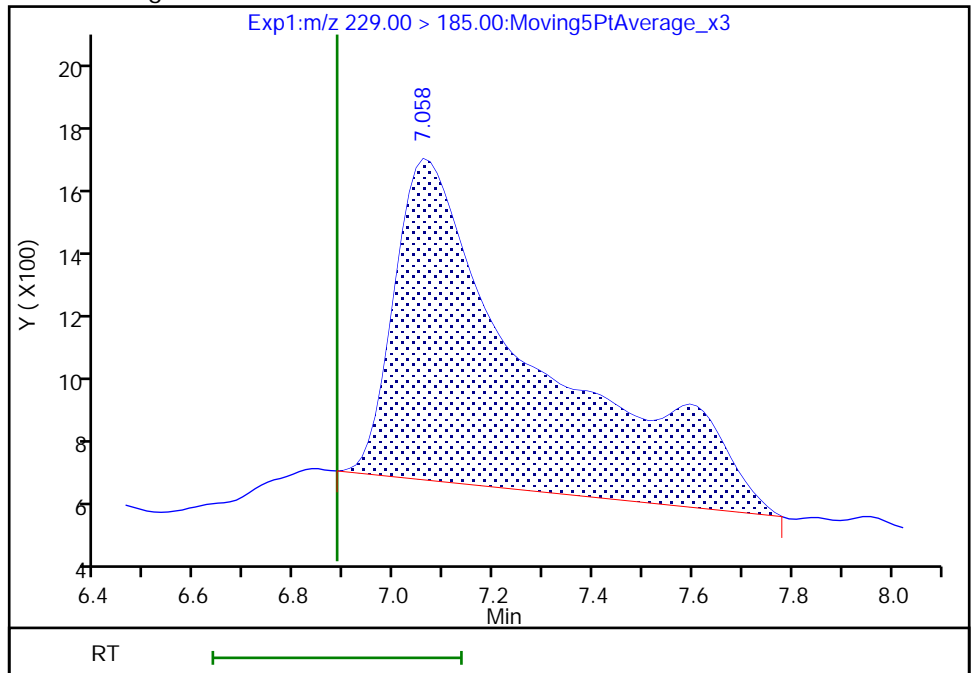
RT: 7.06  
Area: 10729  
Amount: 0.001190  
Amount Units: ng/ml

Processing Integration Results



RT: 7.06  
Area: 19682  
Amount: 0.001713  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:21:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

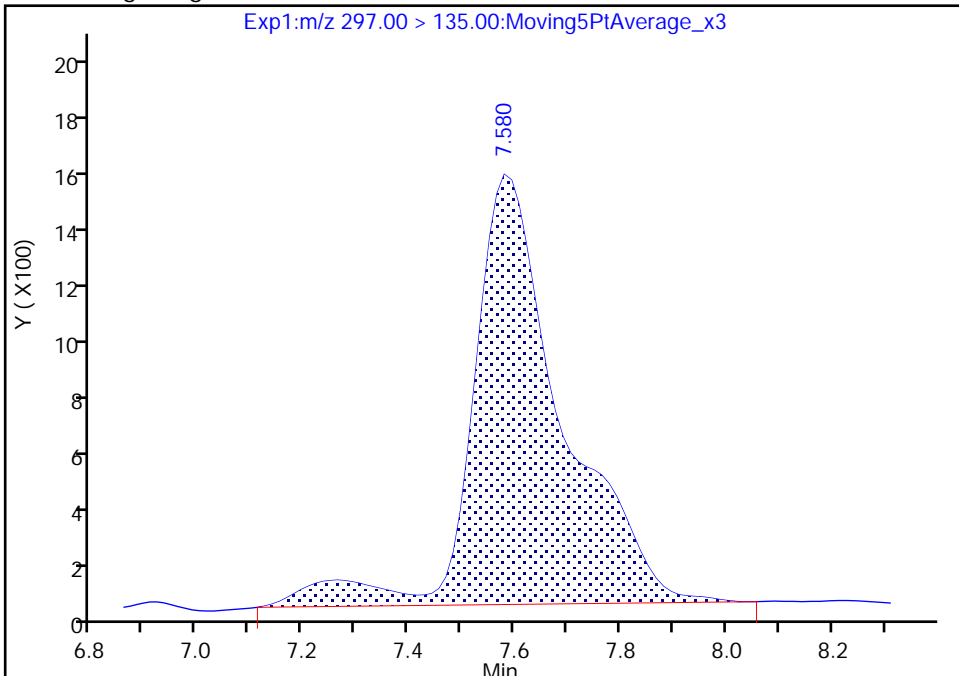
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

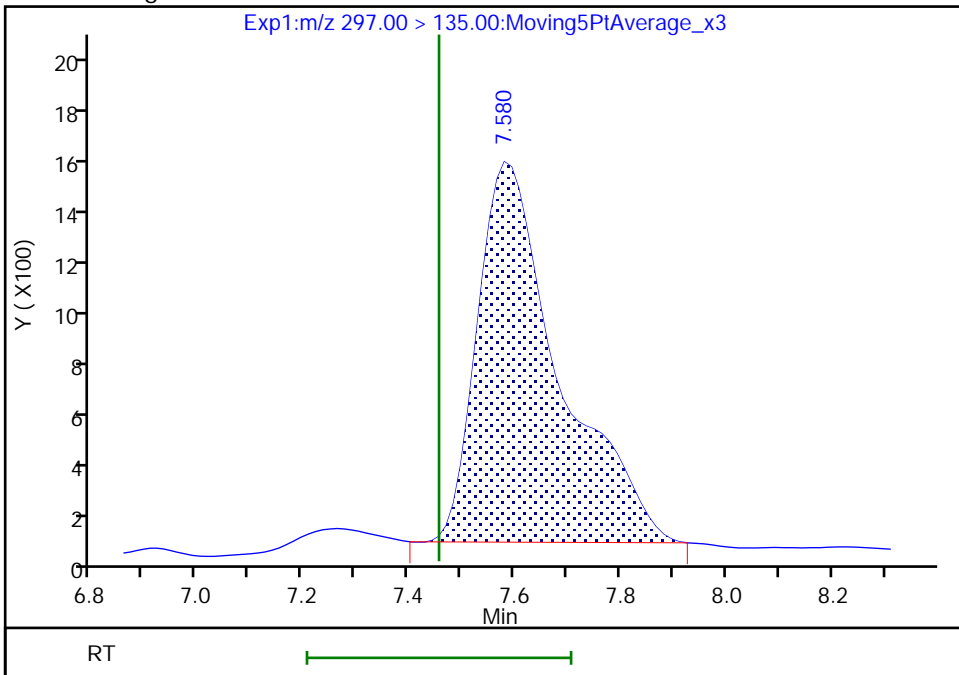
RT: 7.58  
Area: 18018  
Amount: 0.001441  
Amount Units: ng/ml

Processing Integration Results



RT: 7.58  
Area: 15983  
Amount: 0.000998  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

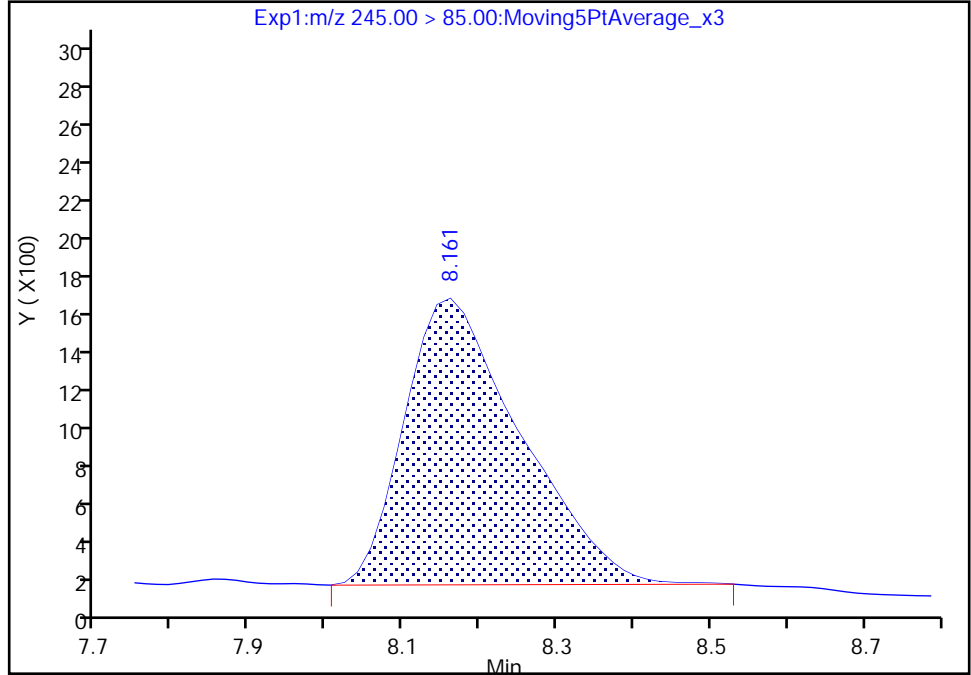
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

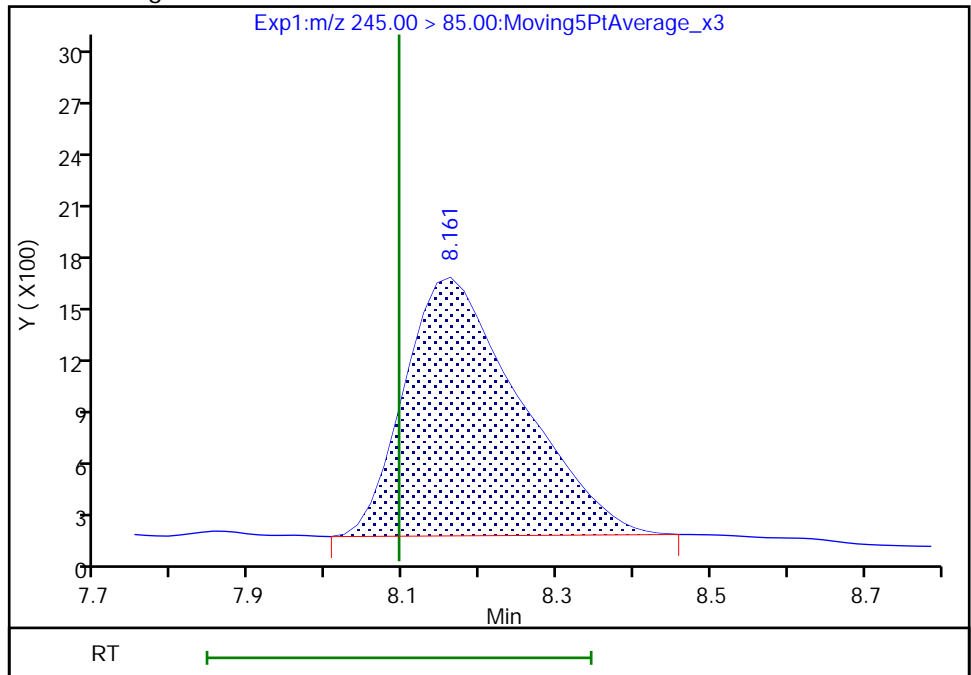
RT: 8.16  
Area: 15296  
Amount: 0.001098  
Amount Units: ng/ml

Processing Integration Results



RT: 8.16  
Area: 15170  
Amount: 0.001040  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Sacramento

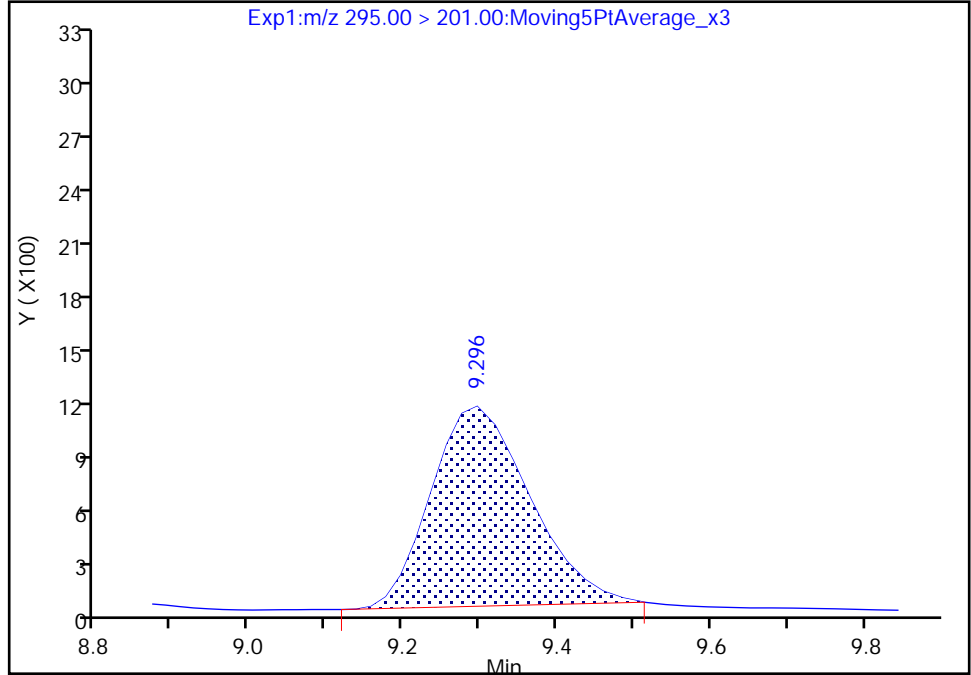
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

10 PFECA B, CAS: 151772-58-6

Signal: 1

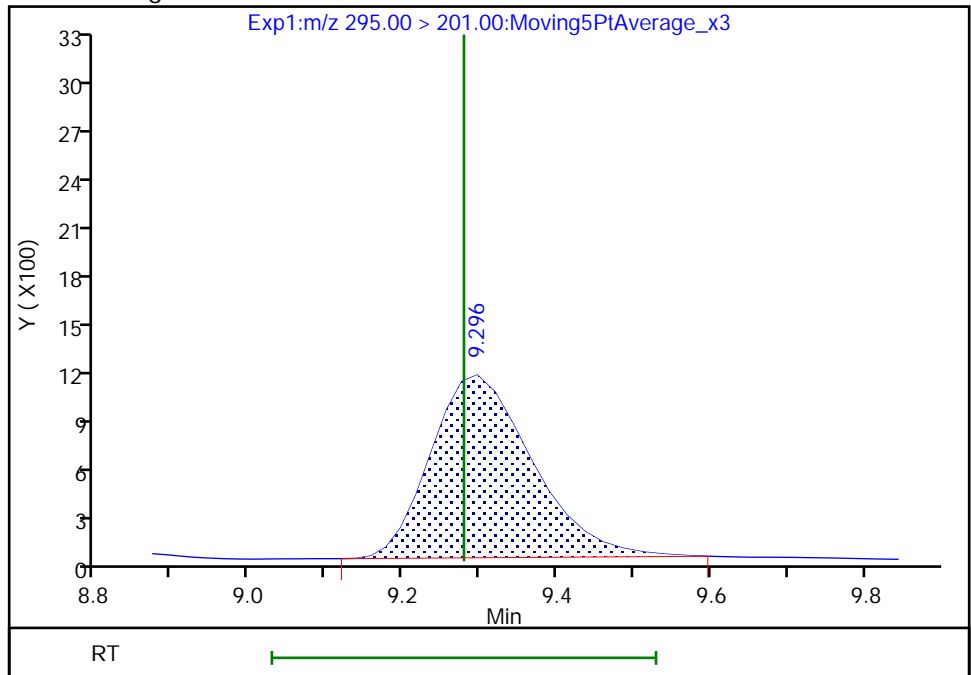
RT: 9.30  
Area: 10006  
Amount: 0.000988  
Amount Units: ng/ml

Processing Integration Results



RT: 9.30  
Area: 10402  
Amount: 0.000975  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

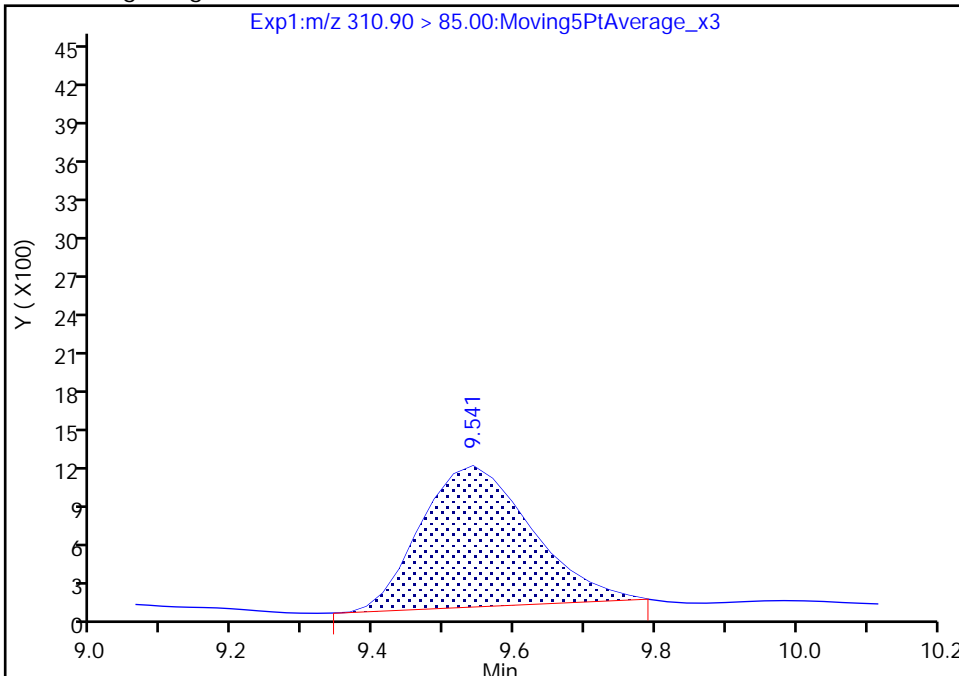
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

11 PFO3OA, CAS: 39492-89-2

Signal: 1

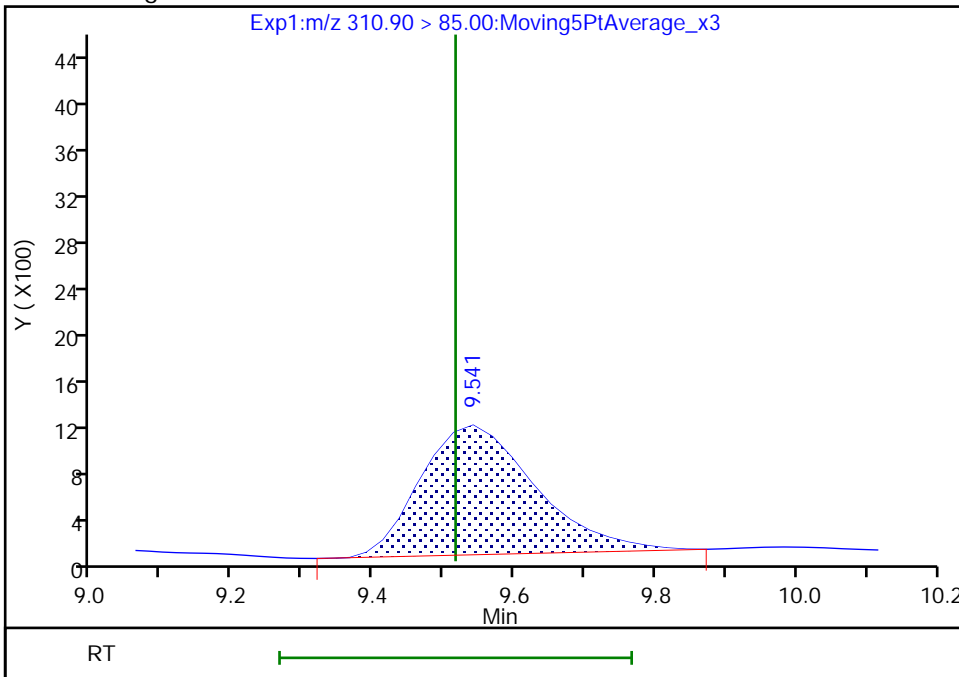
RT: 9.54  
Area: 11993  
Amount: 0.001043  
Amount Units: ng/ml

Processing Integration Results



RT: 9.54  
Area: 12596  
Amount: 0.001034  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

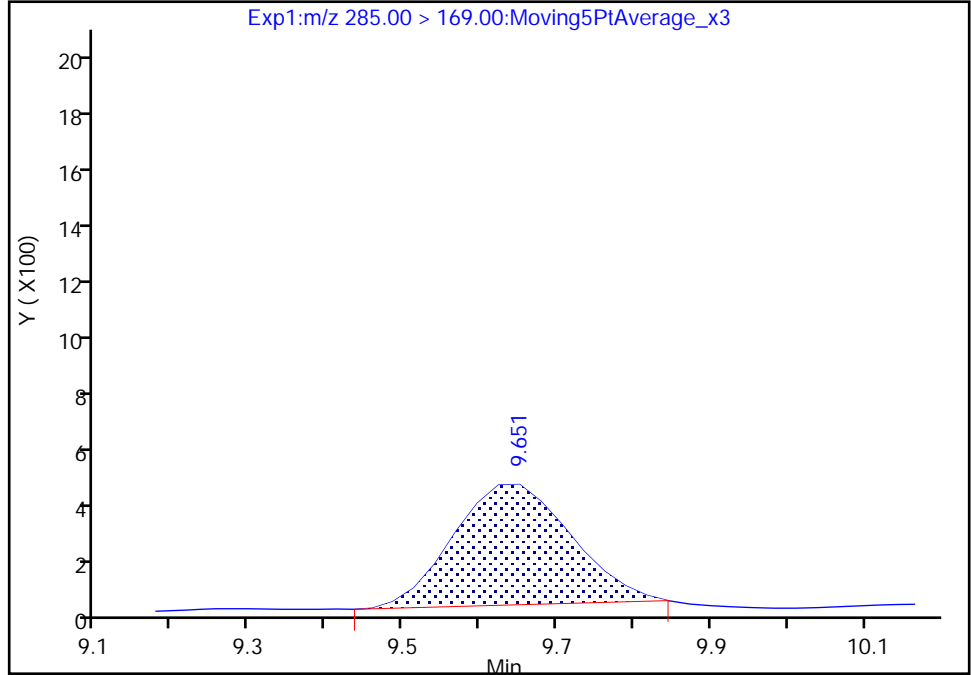
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

13 HPFO-DA, CAS: 13252-13-6

Signal: 1

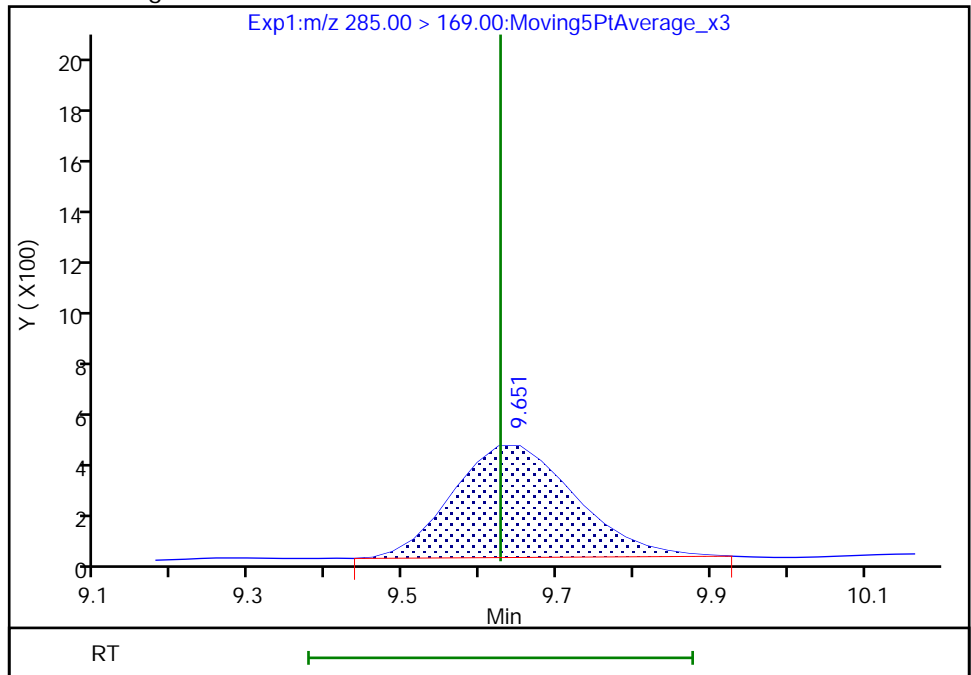
RT: 9.65  
Area: 4586  
Amount: 0.000856  
Amount Units: ng/ml

Processing Integration Results



RT: 9.65  
Area: 4919  
Amount: 0.000868  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 15-Dec-2020 20:29:30 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (42  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:03:08 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:23:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.820	2.785	0.035		30814	0.002494		99.7	82.0	M
2 R-EVE										M
405.00 > 217.00	6.669	6.657	0.012		11679	0.002324		93.0	221	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		5860	0.002295		91.8	152	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.872	6.860	0.012		27373	0.002404		96.2	581	M
5 PMPA										M
229.00 > 185.00	6.885	6.885	0.0		31627	0.002753		110	25.8	M
6 NVHOS										
297.00 > 135.00	7.470	7.457	0.013		40279	0.002516		101	428	
7 PFO2HxA										M
245.00 > 85.00	8.098	8.094	0.004		37433	0.002565		103	215	M
8 PEPA										
278.90 > 234.90	8.757	8.739	0.018		23331	0.002456		98.2	111	
9 PES										
314.90 > 135.00	9.066	9.044	0.022		228069	0.002598		104	4965	
10 PFECA B										
295.00 > 201.00	9.281	9.279	0.002		26687	0.002501		100	941	
11 PFO3OA										
310.90 > 85.00	9.520	9.516	0.004		30927	0.002538		102	472	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.630	9.599	0.031		1247368	0.2531		101	36617	
13 HPFO-DA										
285.00 > 169.00	9.630	9.627	0.004	1.000	16397	0.002890		116	491	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.989	9.957	0.032		272132	0.002543		102	8229	
16 Hydro-EVE Acid										
427.00 > 282.90	10.046	10.013	0.033		144402	0.002517		101	2279	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.046	10.013	0.033	1.000	71734	0.002740	Target=0.00	110	1104	
363.00 > 169.00	10.046	10.013	0.033	1.000	39557		1.81(0.00-0.00)	110	925	
D 15 13C4 PFHpA										
367.00 > 322.00	10.046	10.013	0.033		5402471	0.2377		95.1	166366	
17 Hydro-PS Acid										
463.00 > 262.90	10.072	10.042	0.030		93165	0.002608		104	2369	
19 PFECA G										
378.90 > 184.90	10.171	10.145	0.026		60281	0.002384		95.4	1984	
20 PFO4DA										
376.90 > 85.00	10.295	10.269	0.026		40479	0.003006		120	397	
21 PS Acid										
443.00 > 146.90	10.370	10.344	0.026		45488	0.002752		110	1499	
22 EVE Acid										
407.00 > 262.90	10.370	10.344	0.026		136249	0.002481		99.2	4457	
23 TAF										M
442.90 > 85.00	10.874	10.847	0.027		8961	0.002501		100	28.6	M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00042

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d

Injection Date: 15-Dec-2020 20:29:30

Instrument ID: A7\_N

Lims ID: IC STD 2

Client ID:

Operator ID: abservice

ALS Bottle#: 5

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

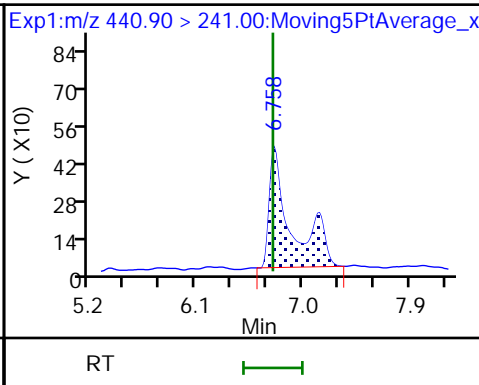
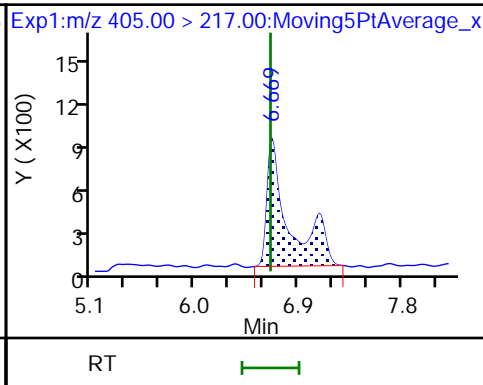
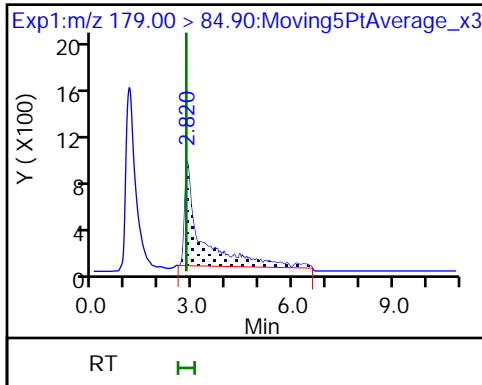
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

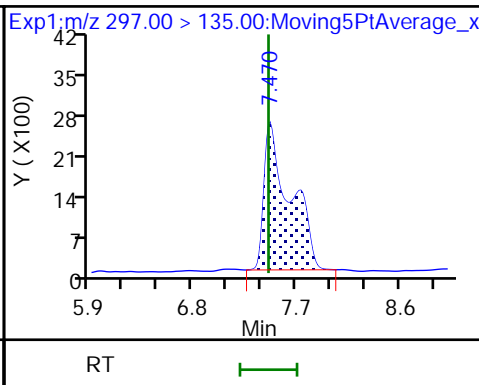
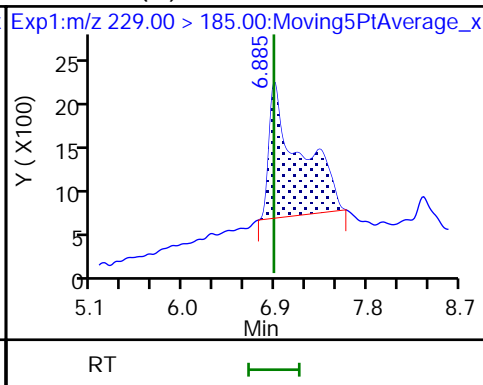
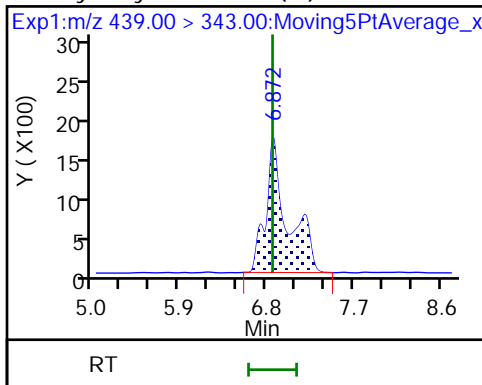
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

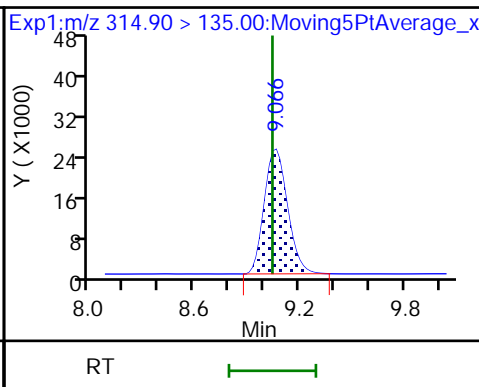
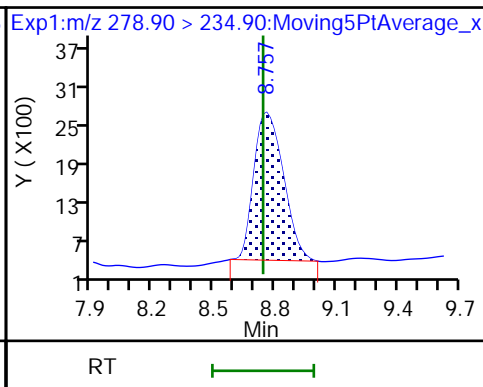
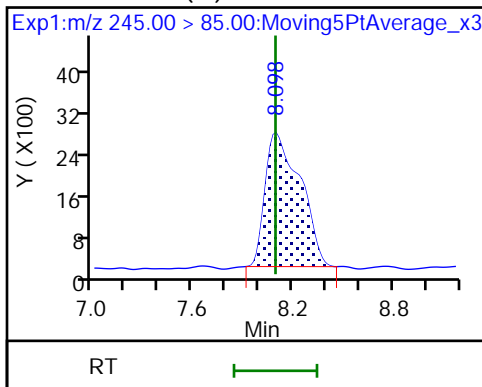
6 NVHOS



7 PFO2HxA (M)

8 PEPA

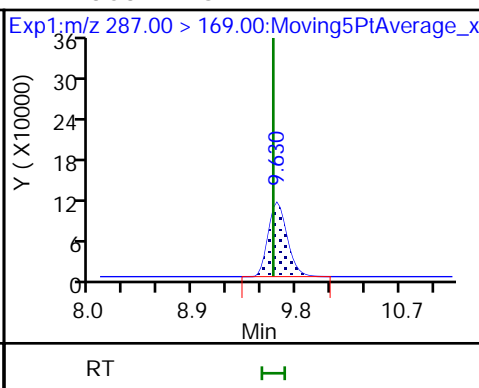
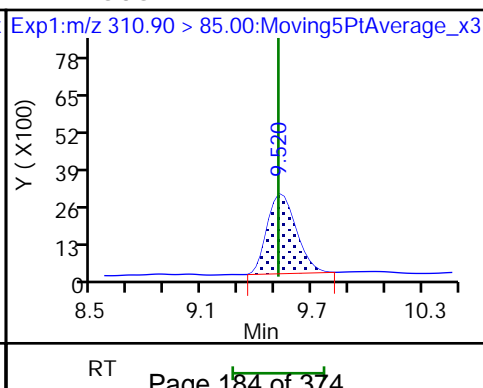
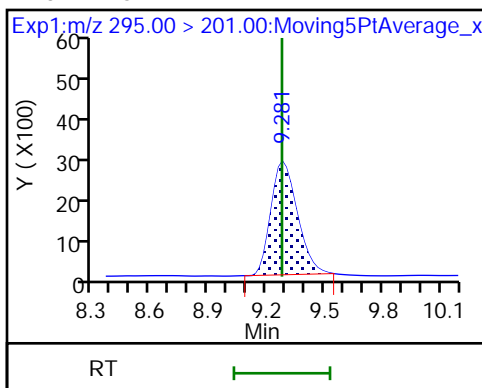
9 PES

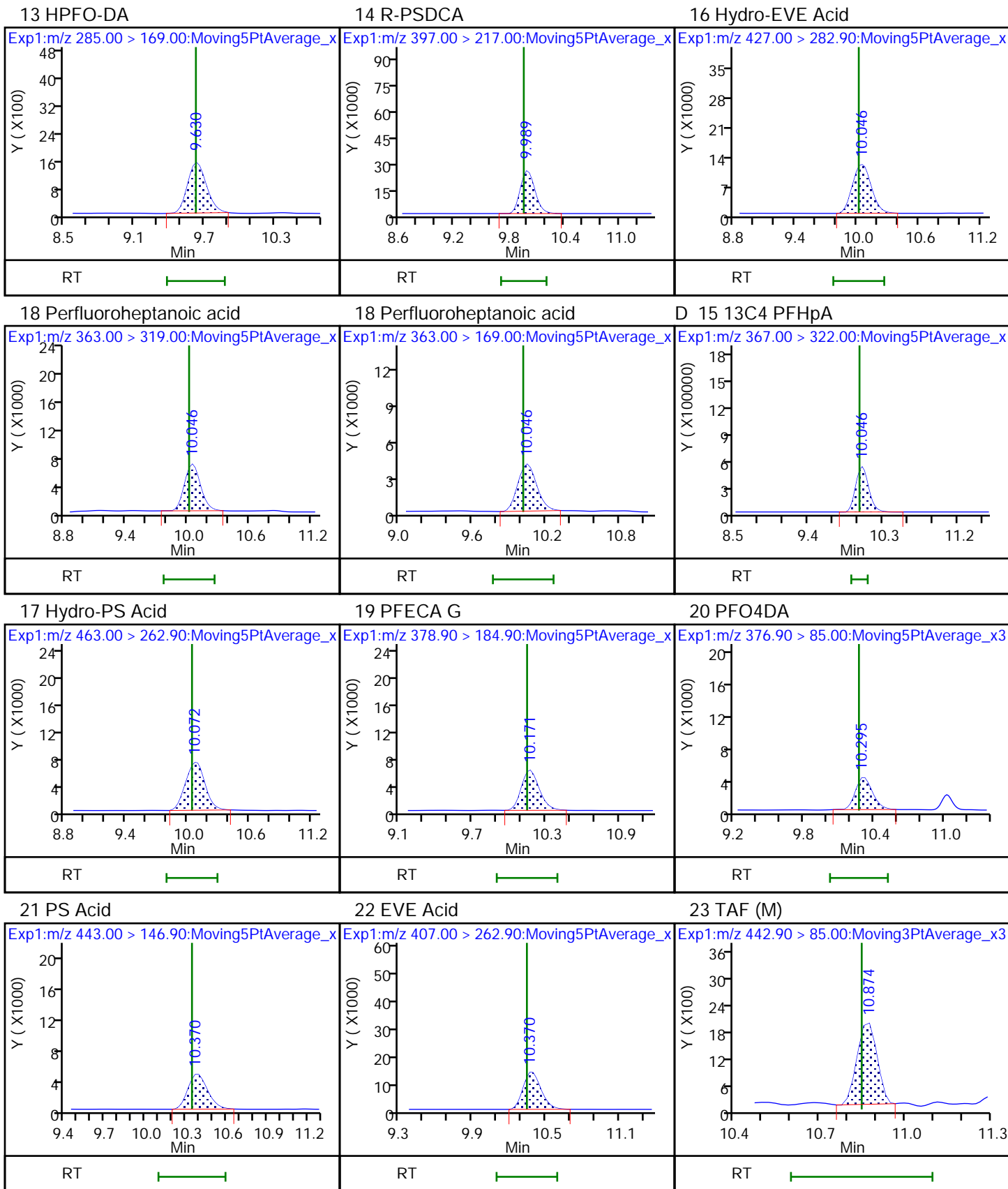


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

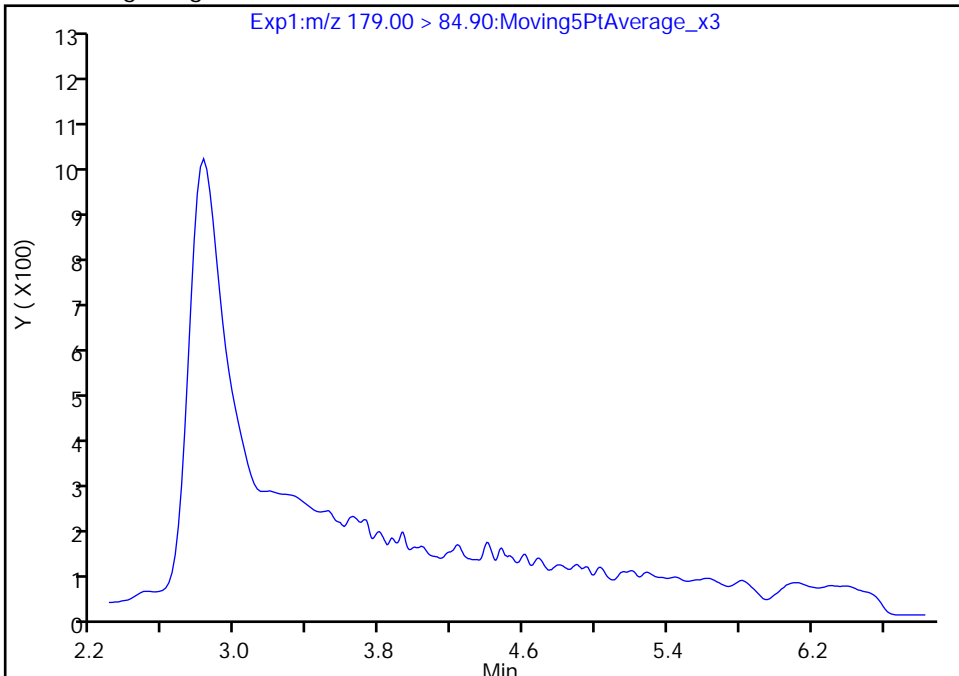
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Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

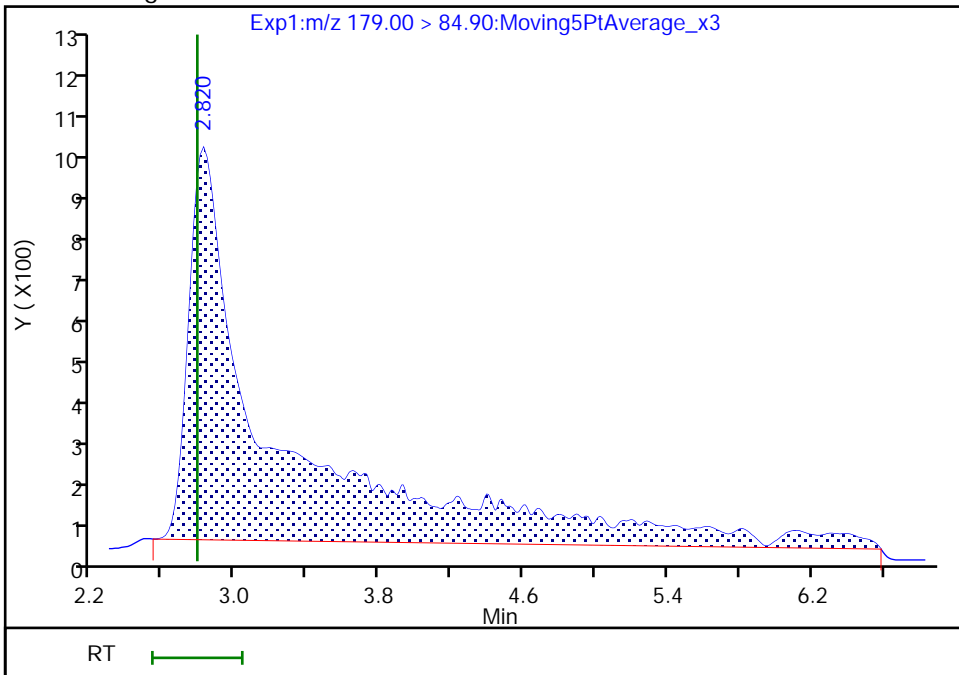
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.82  
Area: 30814  
Amount: 0.002494  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:23:00  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

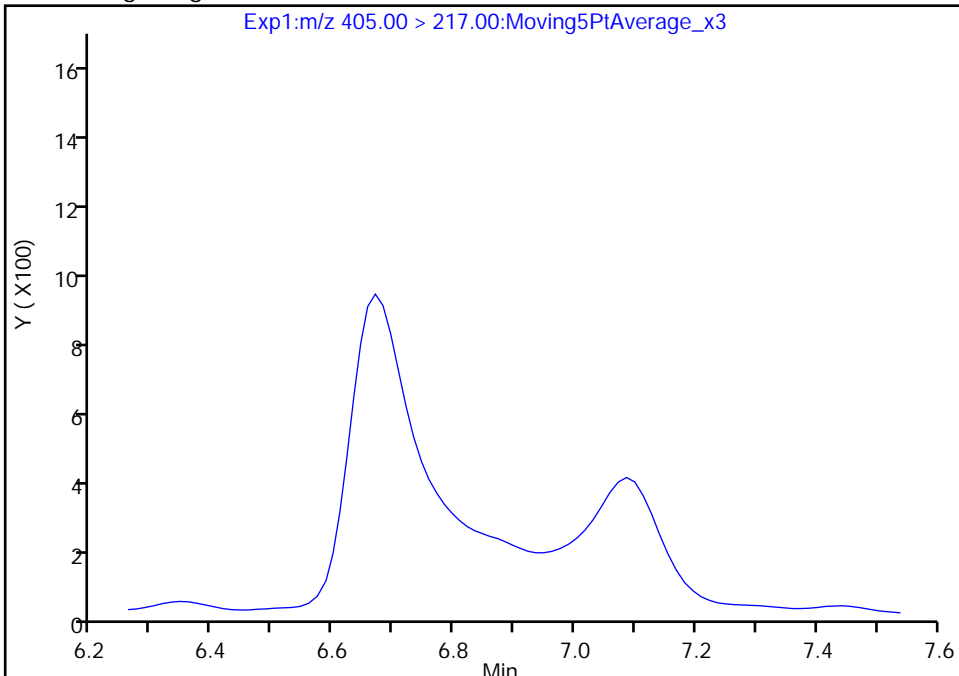
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Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

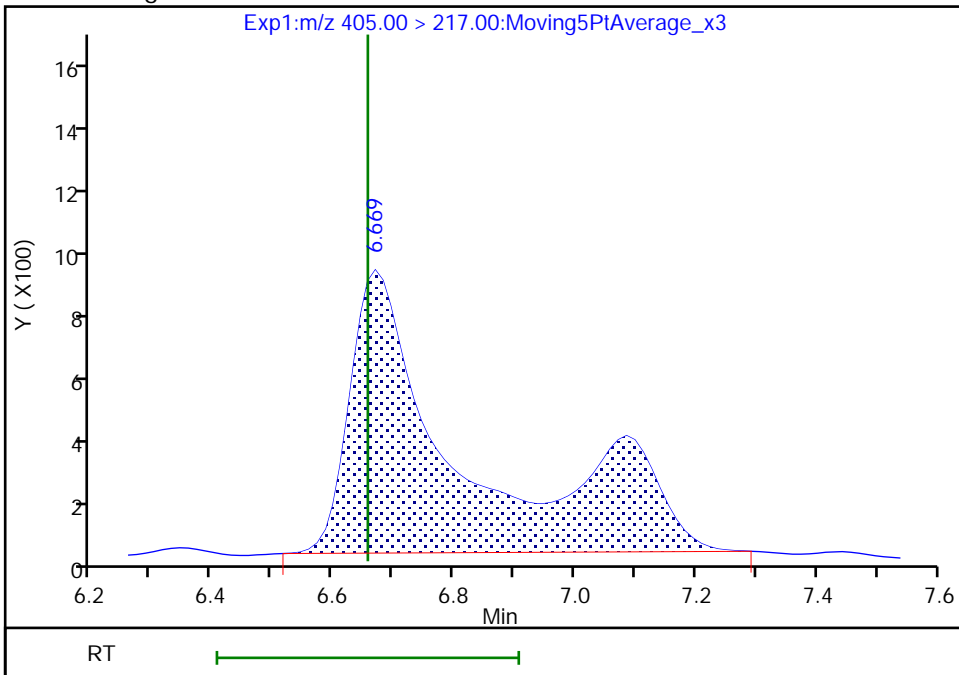
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.67  
Area: 11679  
Amount: 0.002324  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

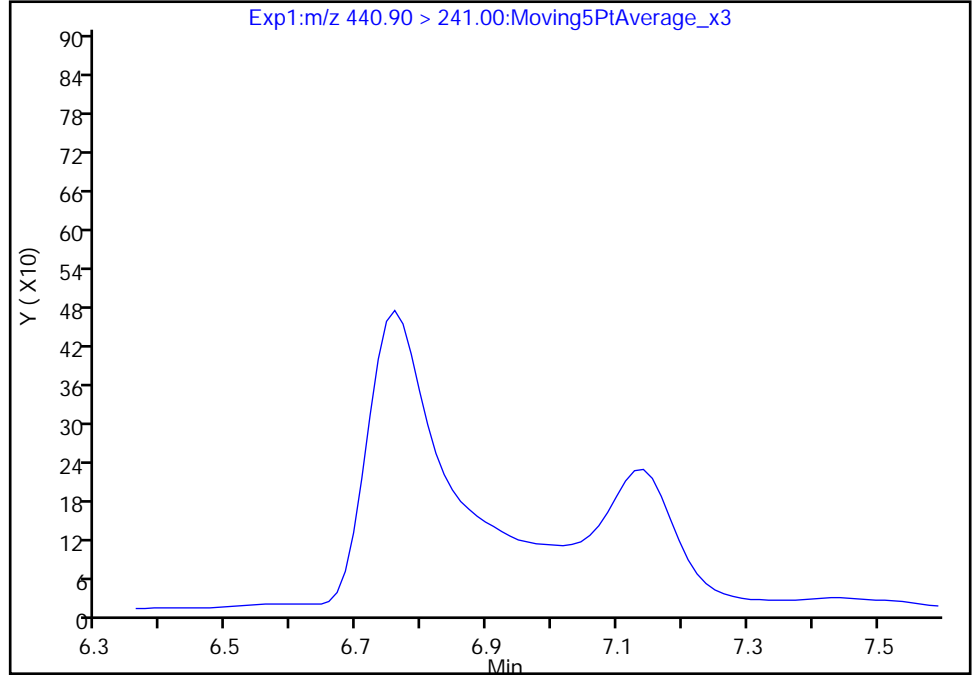
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

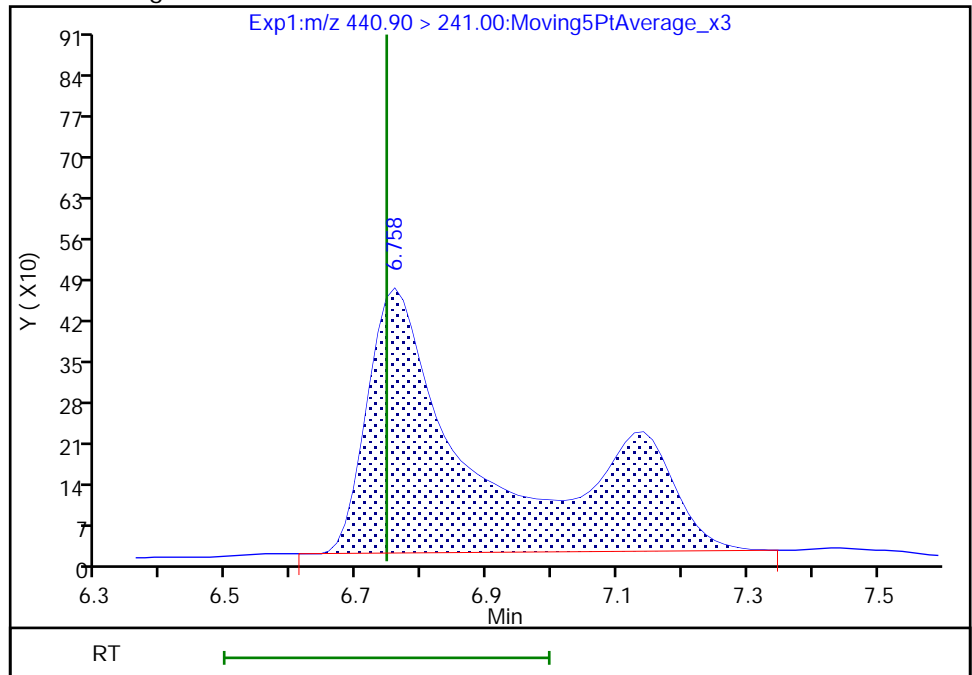
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.76  
Area: 5860  
Amount: 0.002295  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

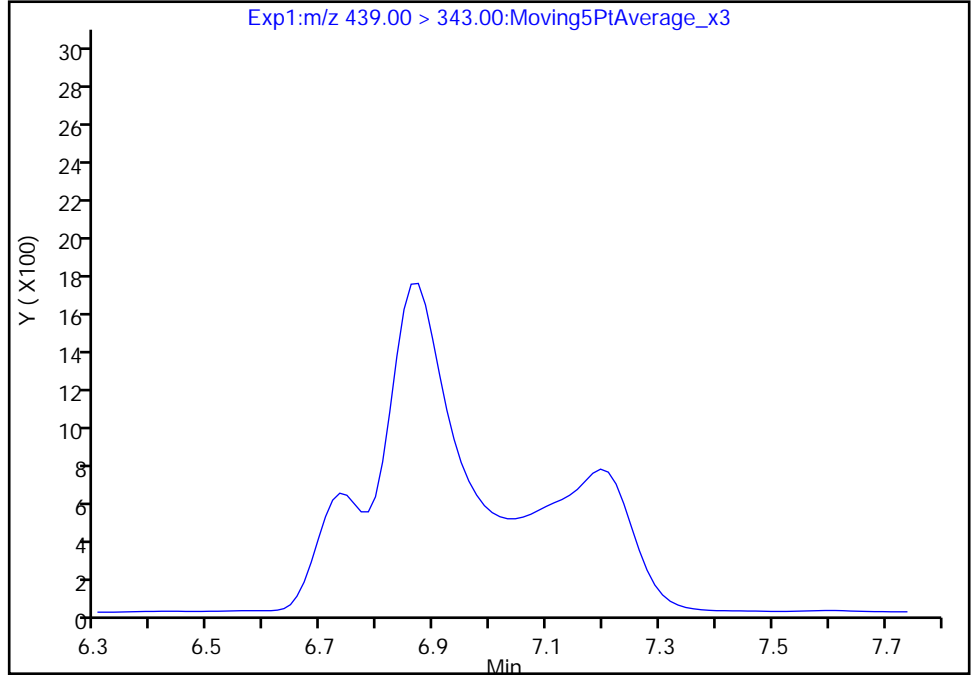
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Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

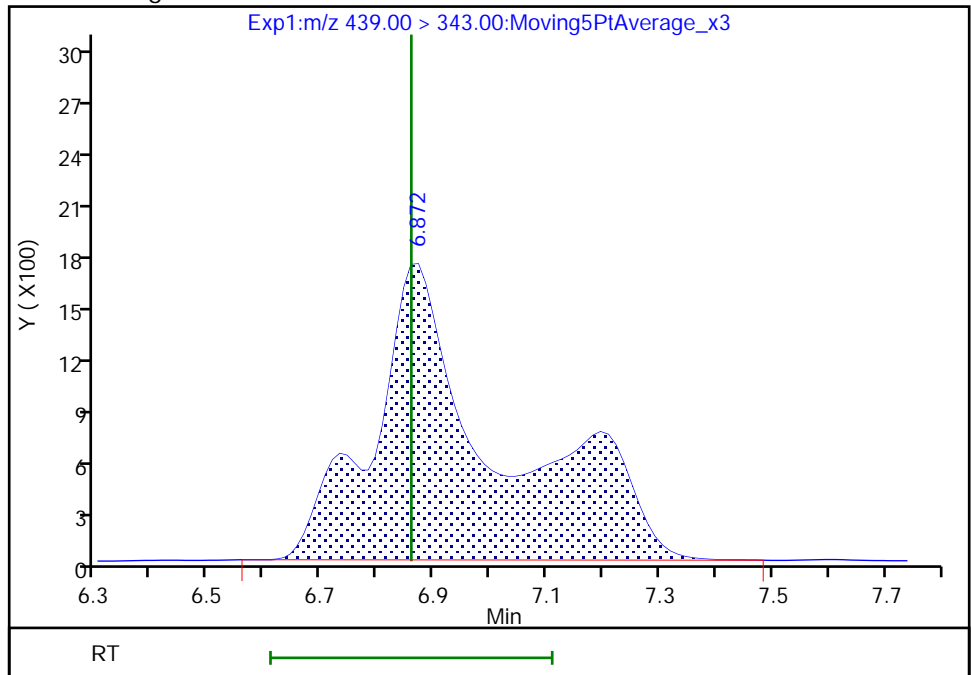
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 27373  
Amount: 0.002404  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:23:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

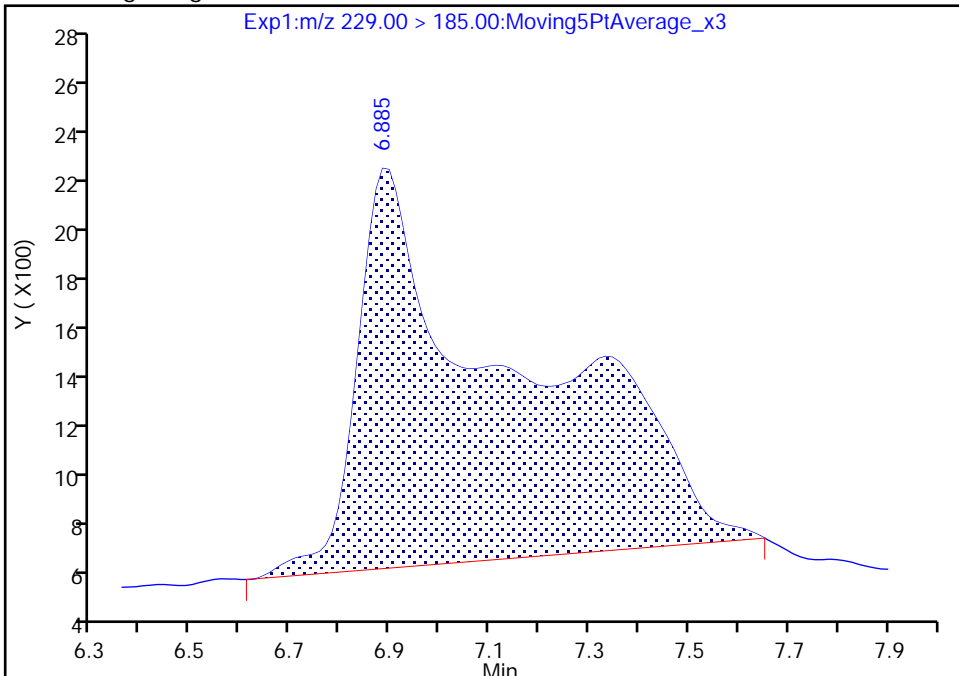
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

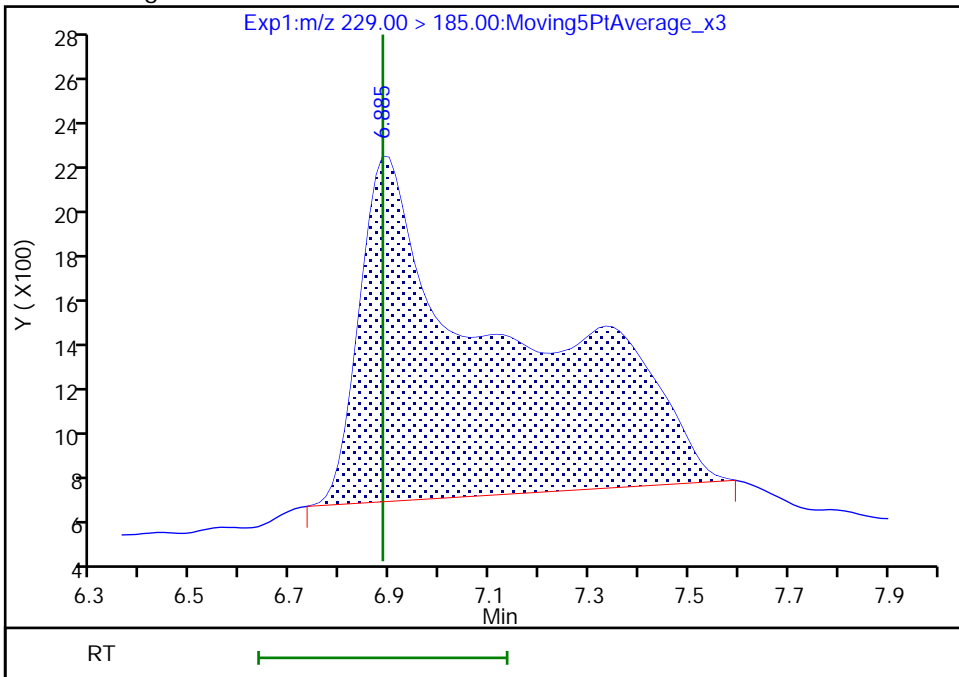
RT: 6.88  
Area: 35359  
Amount: 0.003568  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 31627  
Amount: 0.002753  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

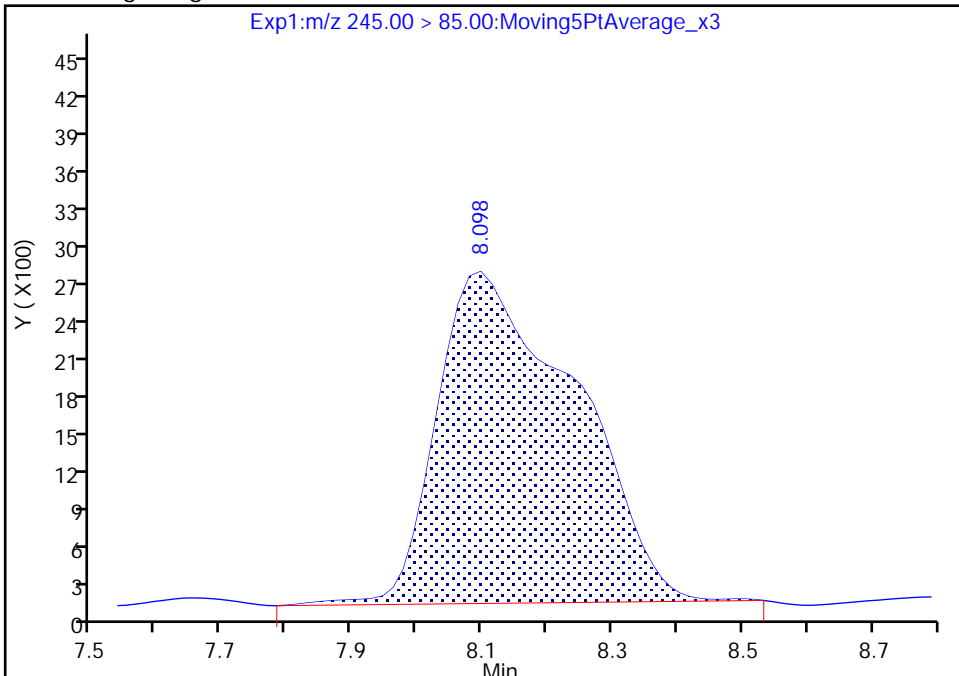
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

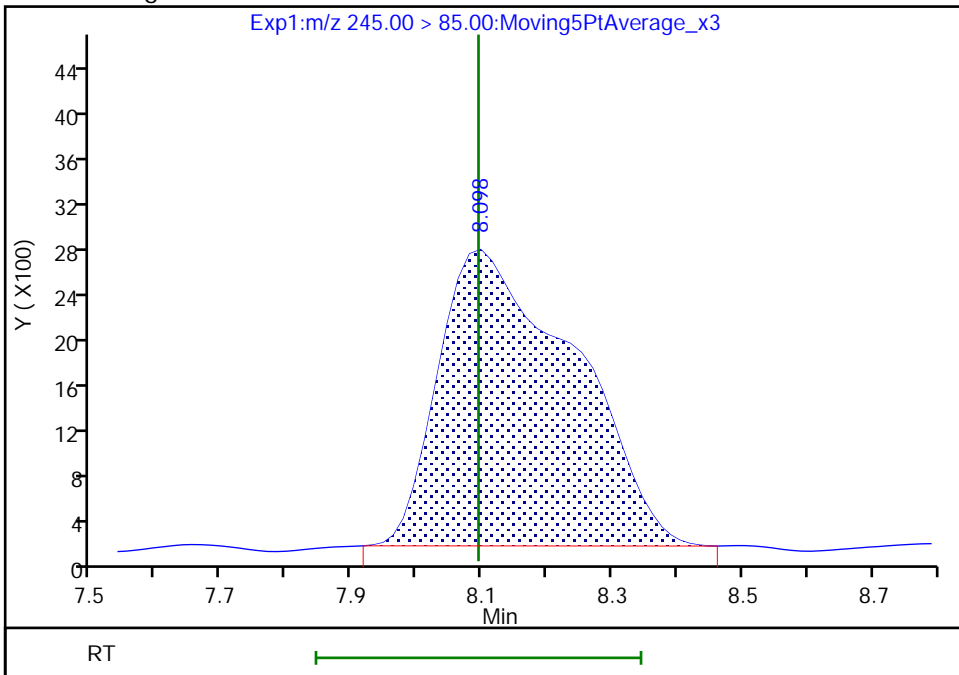
RT: 8.10  
Area: 38544  
Amount: 0.002770  
Amount Units: ng/ml

Processing Integration Results



RT: 8.10  
Area: 37433  
Amount: 0.002565  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

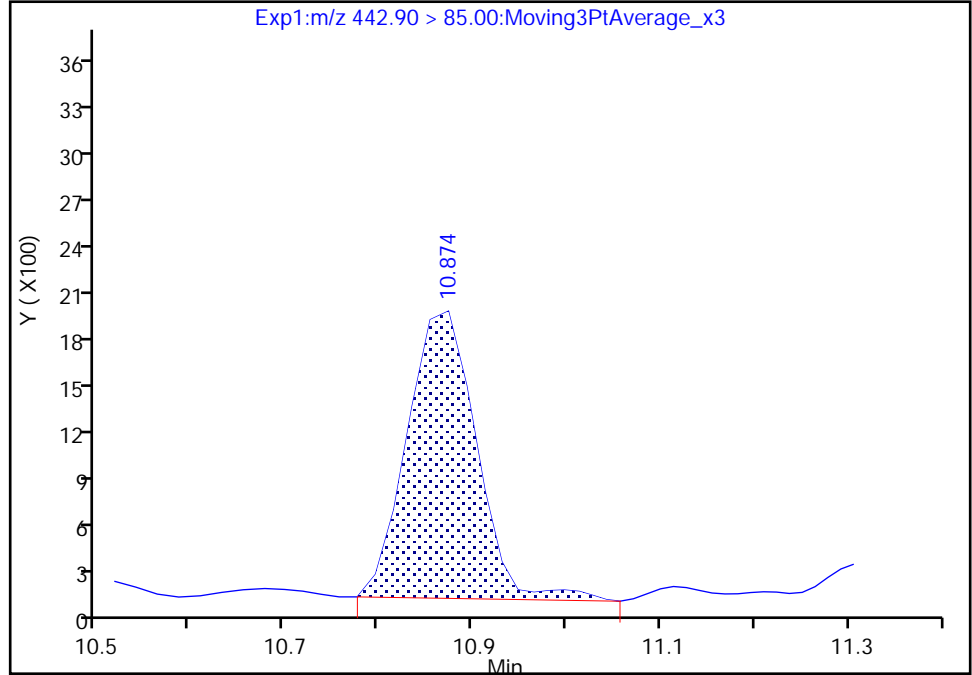
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Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 TAF, CAS: 39492-91-6

Signal: 1

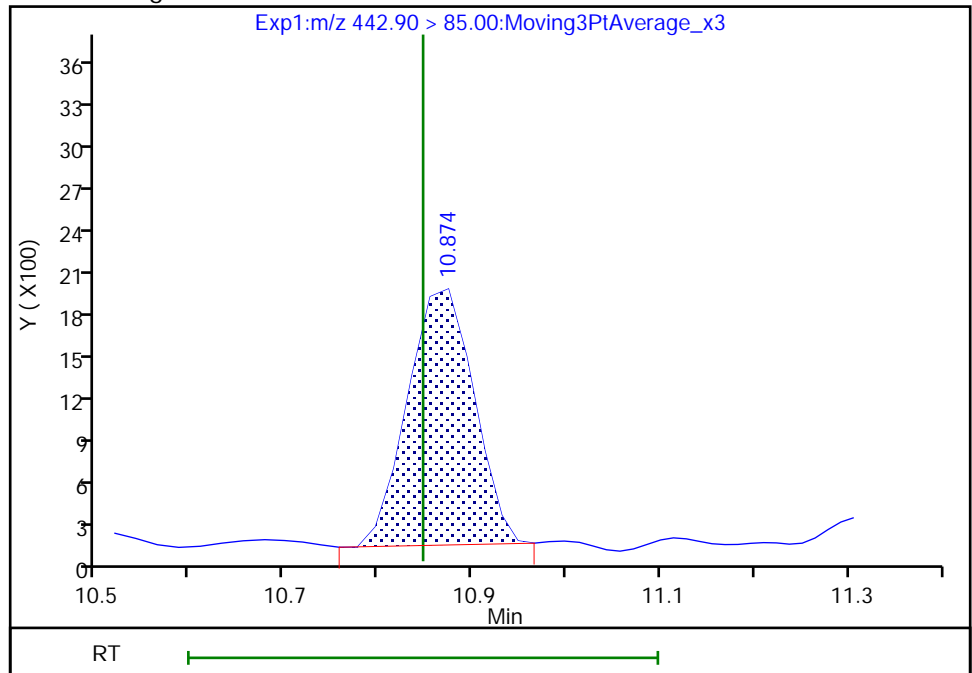
RT: 10.87  
Area: 9484  
Amount: 0.002832  
Amount Units: ng/ml

Processing Integration Results



RT: 10.87  
Area: 8961  
Amount: 0.002501  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 15-Dec-2020 20:47:07 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (42  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:03:40 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:25:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.715	2.785	-0.070		62326	0.005044		101	136	M
2 R-EVE										M
405.00 > 217.00	6.622	6.657	-0.035		23702	0.004717		94.3	424	M
3 R-PSDA										M
440.90 > 241.00	6.720	6.746	-0.026		11821	0.004629		92.6	283	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.821	6.860	-0.039		54113	0.004753		95.1	1025	M
5 PMPA										M
229.00 > 185.00	6.872	6.885	-0.013		52231	0.004546		90.9	46.3	M
6 NVHOS										M
297.00 > 135.00	7.457	7.457	0.0		74525	0.004655		93.1	785	M
7 PFO2HxA										M
245.00 > 85.00	8.092	8.094	-0.002		68300	0.004680		93.6	387	M
8 PEPA										M
278.90 > 234.90	8.753	8.739	0.013		46129	0.004856		97.1	195	M
9 PES										M
314.90 > 135.00	9.061	9.044	0.017		424082	0.004830		96.6	9036	M
10 PFECA B										M
295.00 > 201.00	9.276	9.279	-0.003		47009	0.004405		88.1	1634	M
11 PFO3OA										M
310.90 > 85.00	9.541	9.516	0.025		61518	0.005049		101	786	M
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1287578	0.2612		104	37622	M
13 HPFO-DA										M
285.00 > 169.00	9.624	9.627	-0.002	1.000	26977	0.004606		92.1	791	M



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		529239	0.004945		98.9	15901	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		266416	0.004645		92.9	4203	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	133308	0.005125	Target=0.00	102	2452	
363.00 > 169.00	10.039	10.013	0.026	1.000	75354		1.77(0.00-0.00)	102	1746	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5843429	0.2571		103	179437	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		175496	0.004913		98.3	4448	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		135286	0.005350		107	4425	
20 PFO4DA										
376.90 > 85.00	10.315	10.269	0.046		72641	0.005395		108	722	
21 PS Acid										
443.00 > 146.90	10.364	10.344	0.020		88224	0.005338		107	2900	
22 EVE Acid										
407.00 > 262.90	10.364	10.344	0.020		276588	0.005037		101	9046	
23 TAF										
442.90 > 85.00	10.850	10.847	0.003		23004	0.006420		128	82.0	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00042

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d

Injection Date: 15-Dec-2020 20:47:07

Instrument ID: A7\_N

Lims ID: IC STD 3

Client ID:

Operator ID: abservice

ALS Bottle#: 6

Worklist Smp#: 4

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

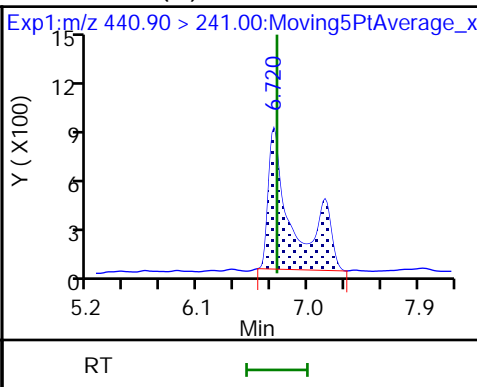
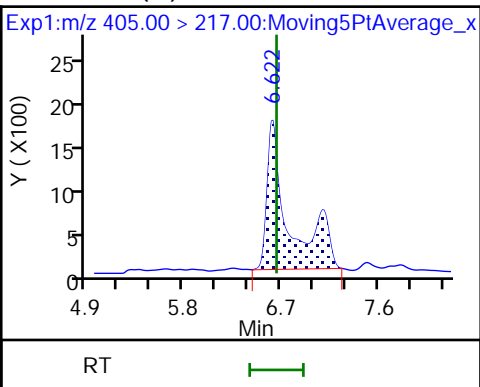
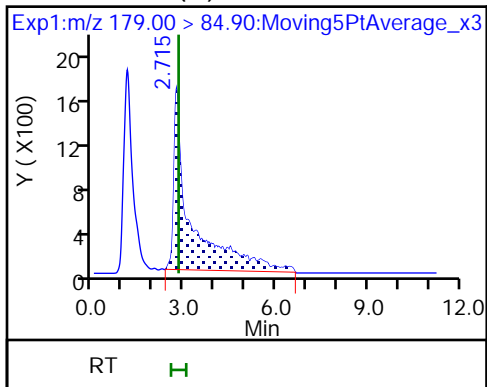
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

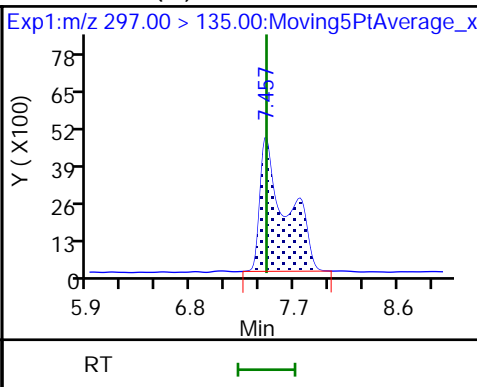
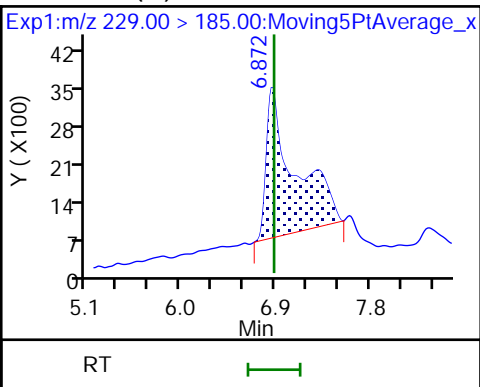
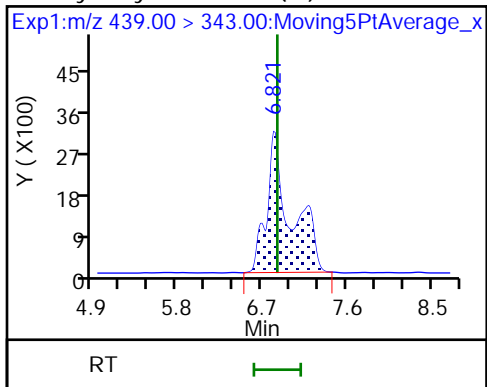
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

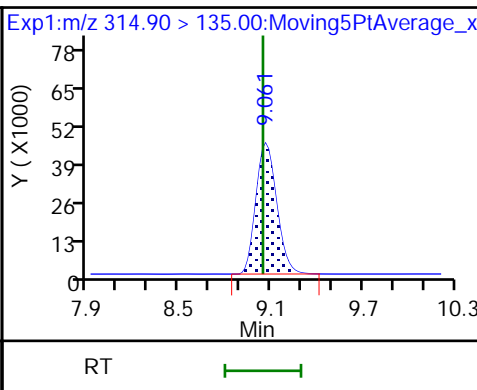
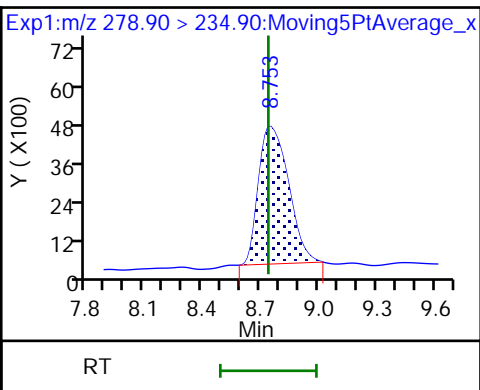
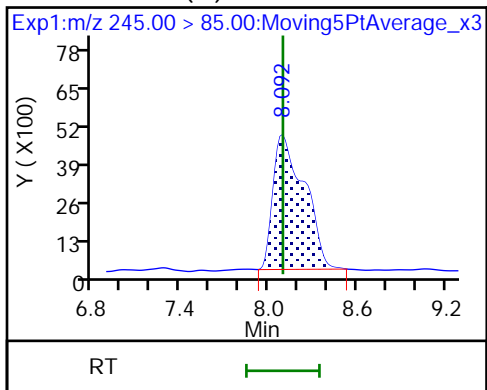
6 NVHOS (M)



7 PFO2HxA (M)

8 PEPA

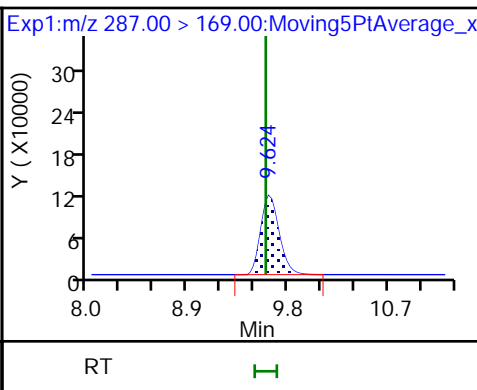
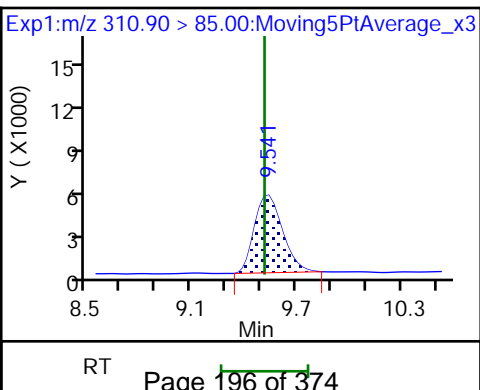
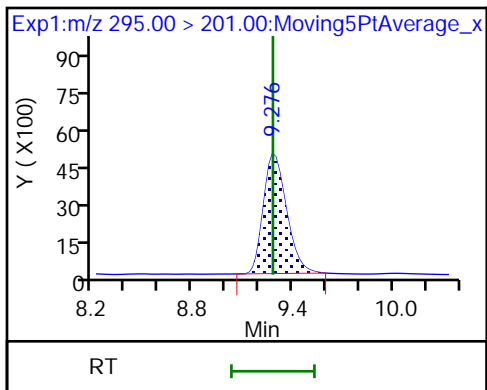
9 PES

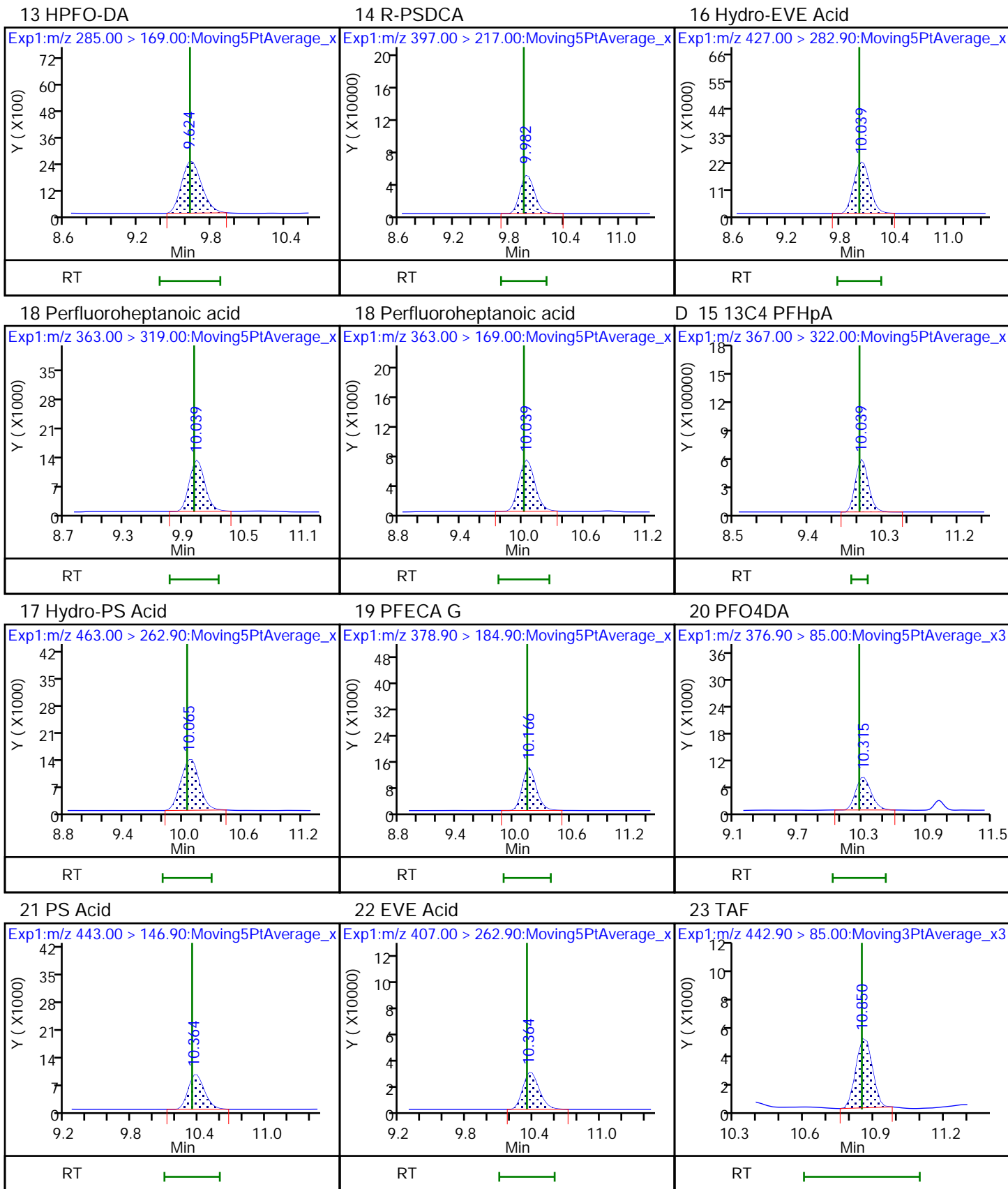


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

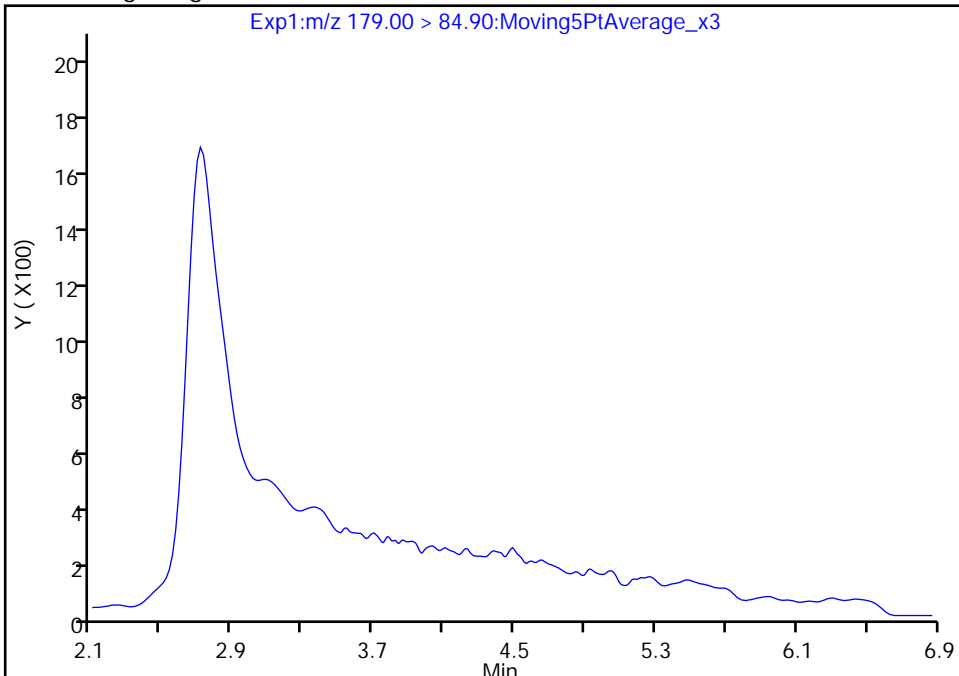
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

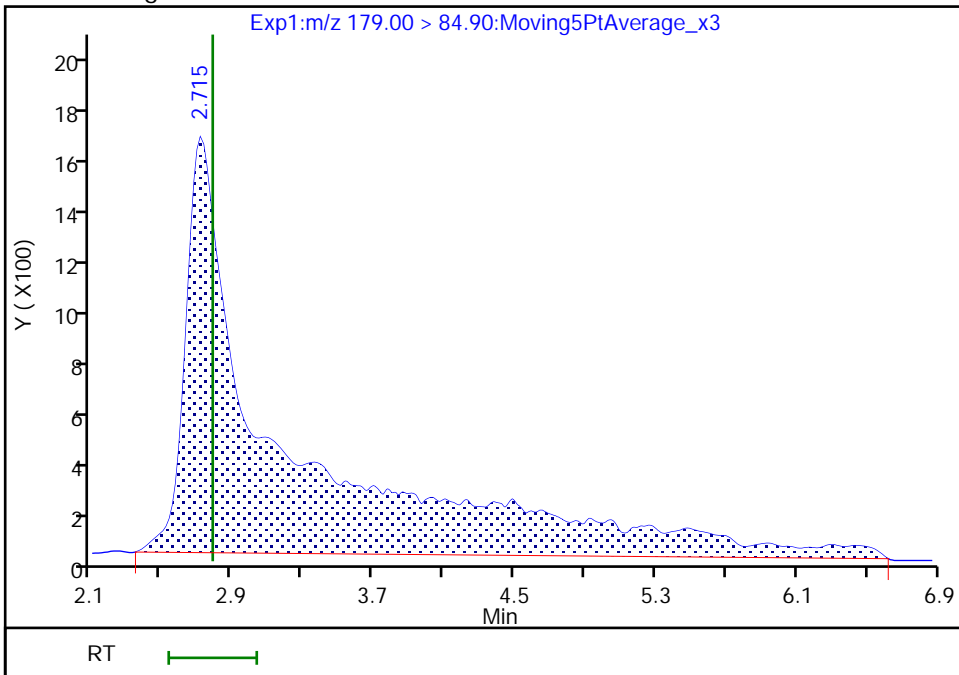
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.72  
Area: 62326  
Amount: 0.005044  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

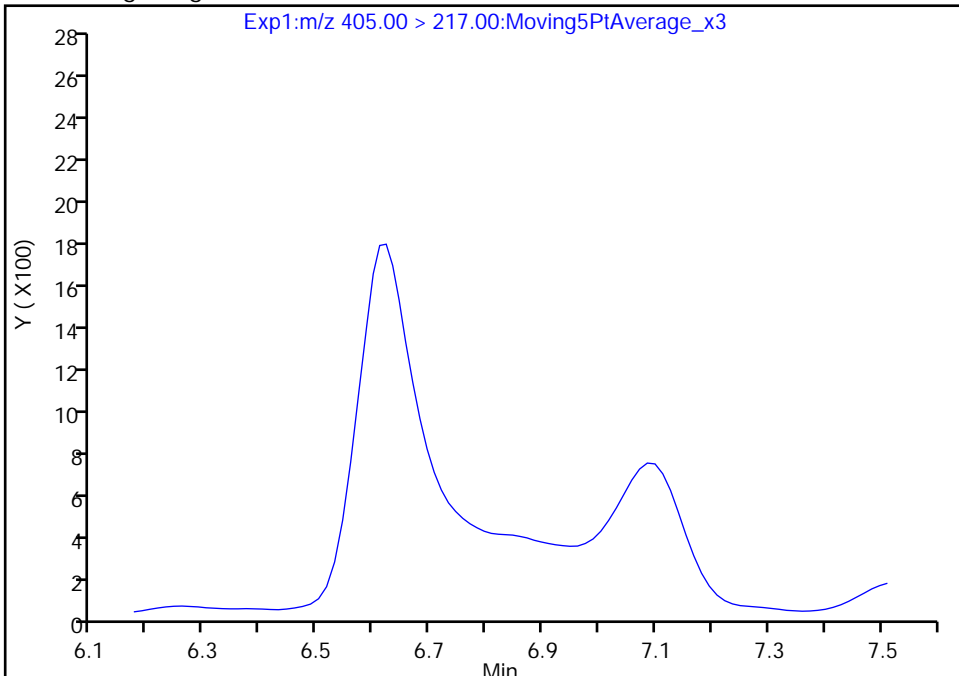
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

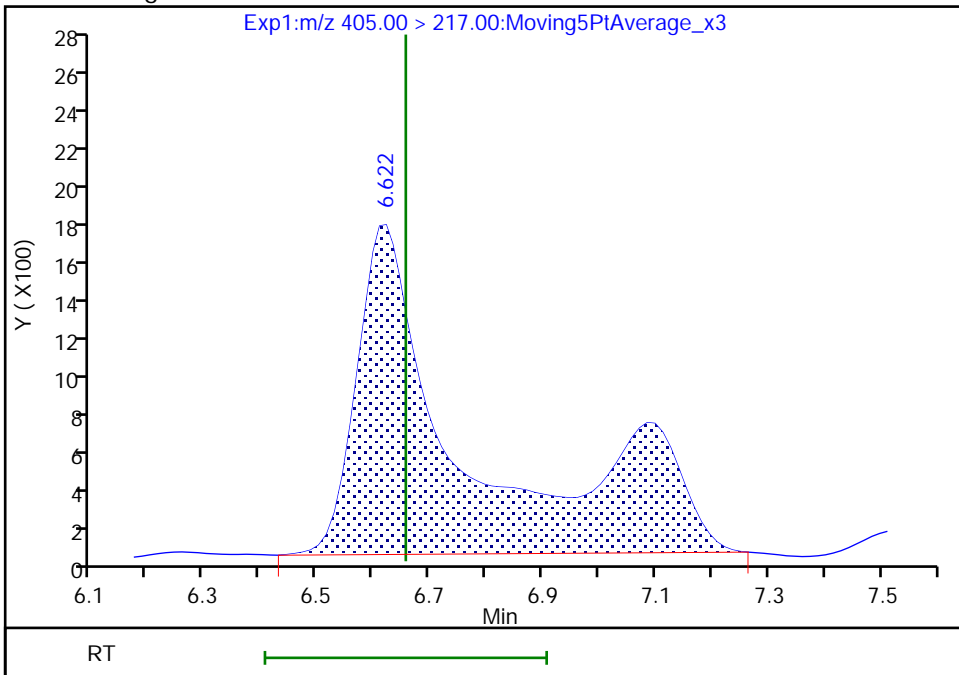
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.62  
Area: 23702  
Amount: 0.004717  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:24:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

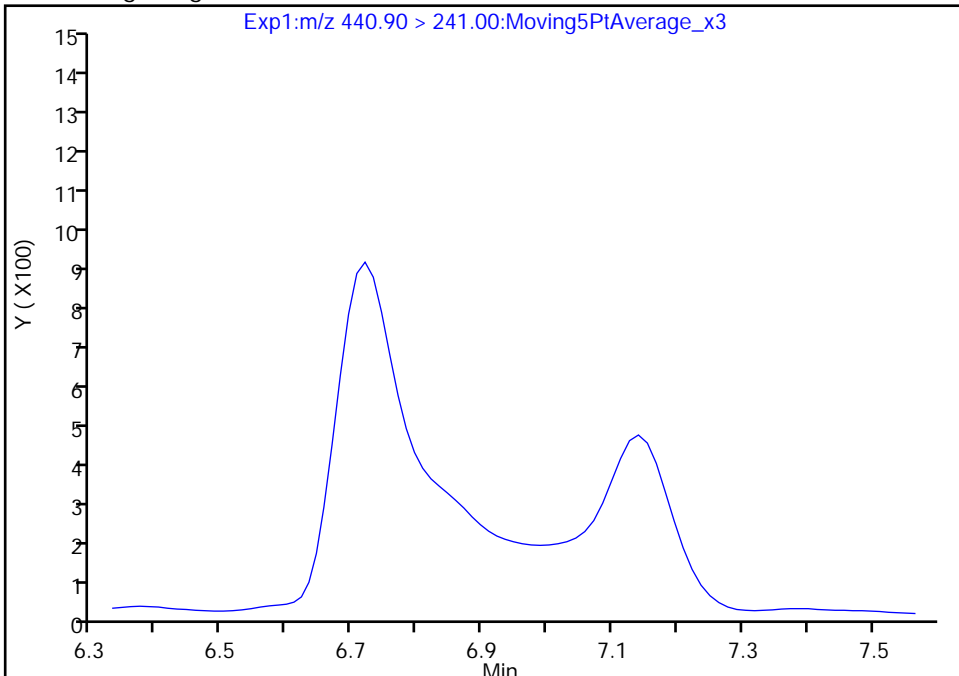
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

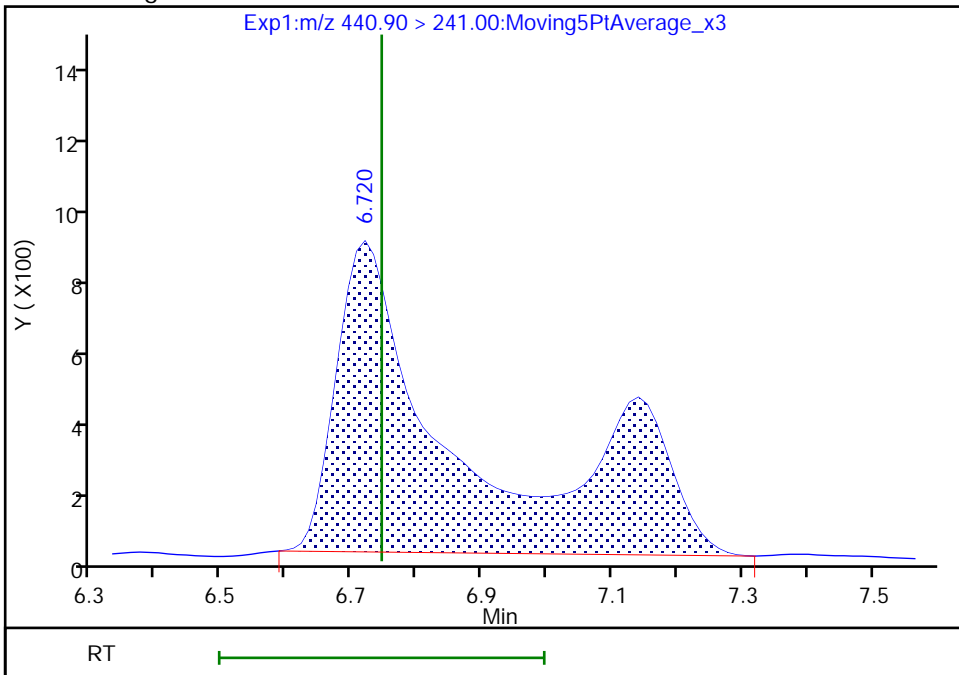
Not Detected  
Expected RT: 6.75

Processing Integration Results



RT: 6.72  
Area: 11821  
Amount: 0.004629  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 09:24:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

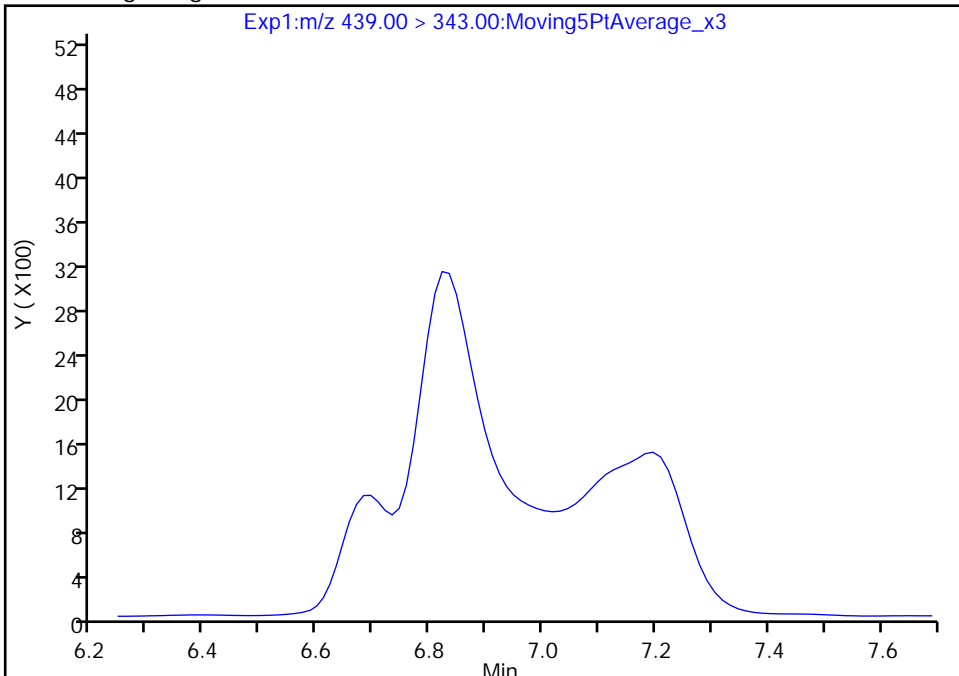
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
 Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
 Lims ID: IC STD 3  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

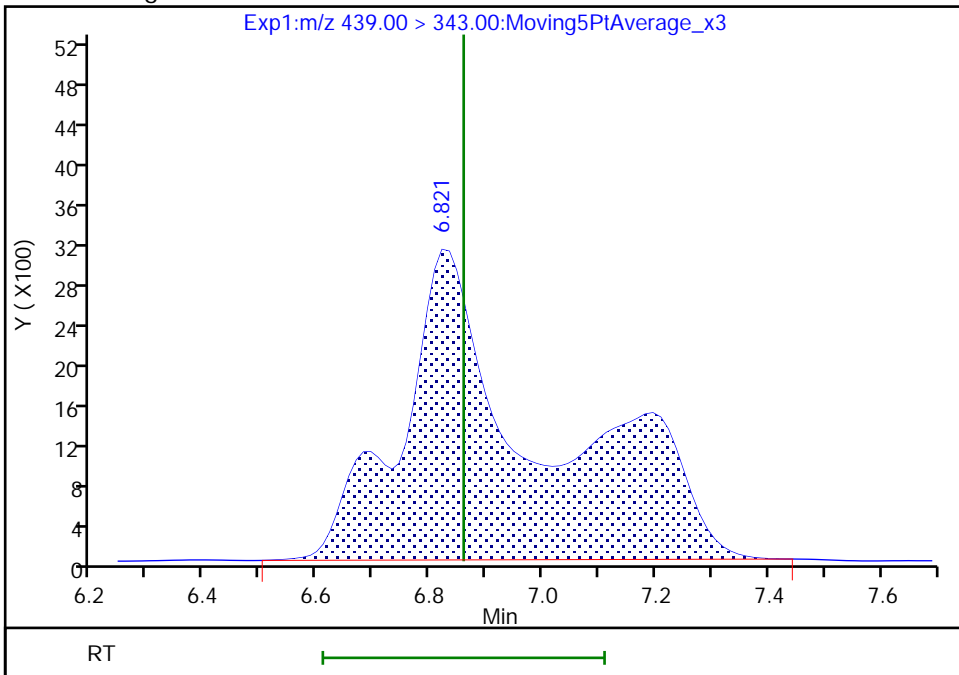
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.82  
 Area: 54113  
 Amount: 0.004753  
 Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:24:31  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

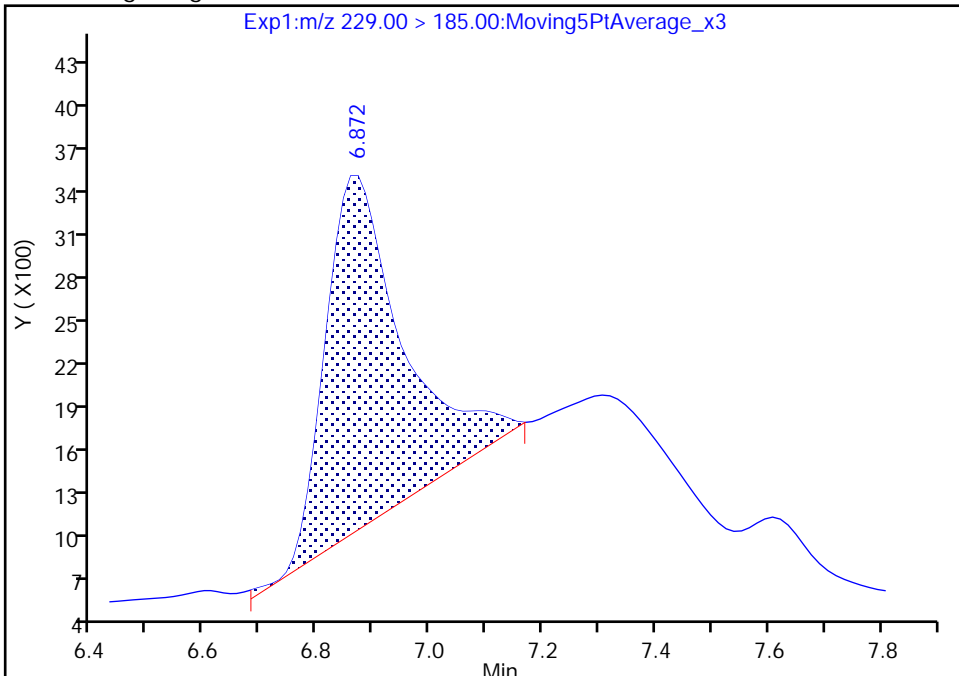
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

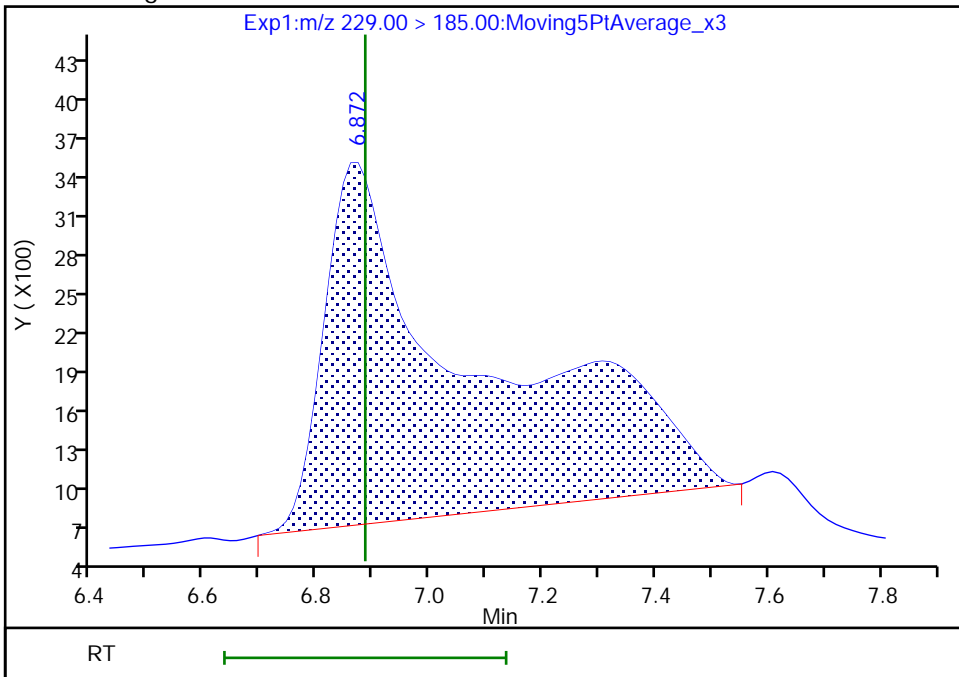
RT: 6.87  
Area: 23643  
Amount: 0.002422  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 52231  
Amount: 0.004546  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:24:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

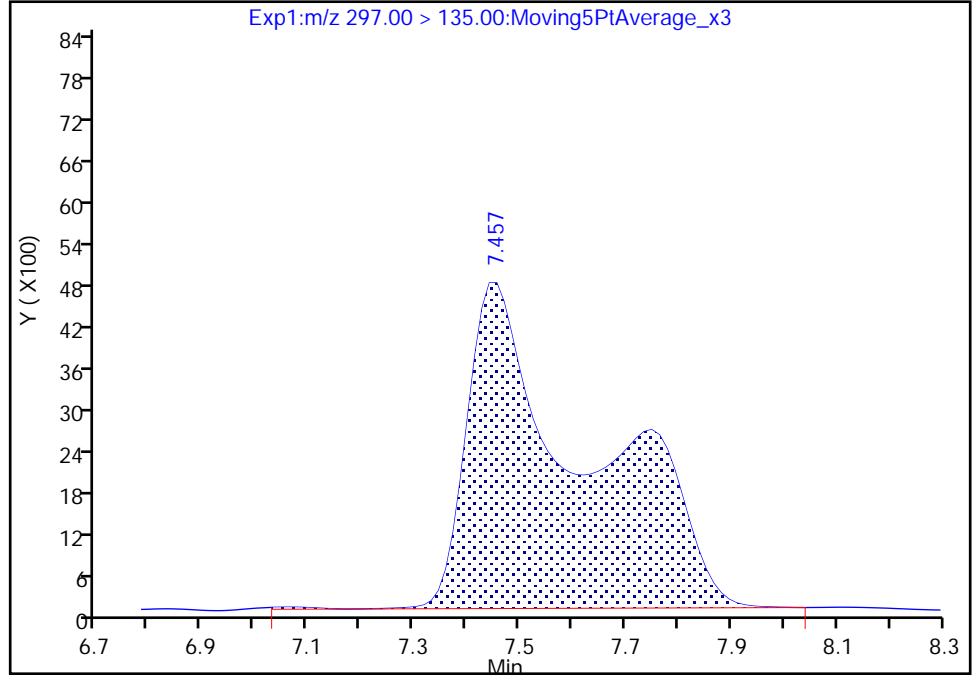
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

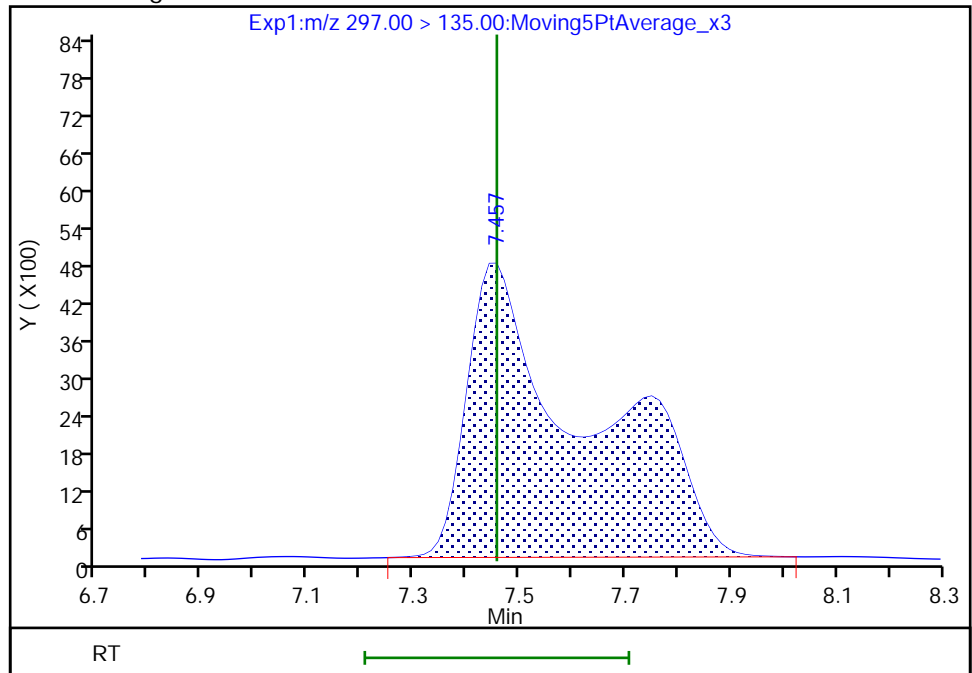
RT: 7.46  
Area: 74898  
Amount: 0.006089  
Amount Units: ng/ml

Processing Integration Results



RT: 7.46  
Area: 74525  
Amount: 0.004655  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:24:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

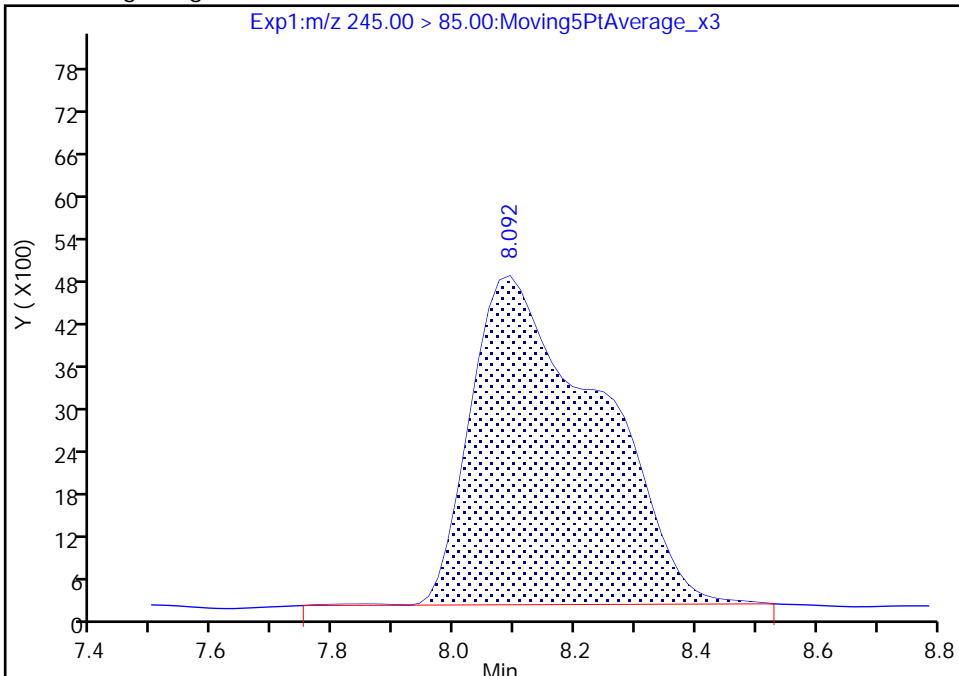
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

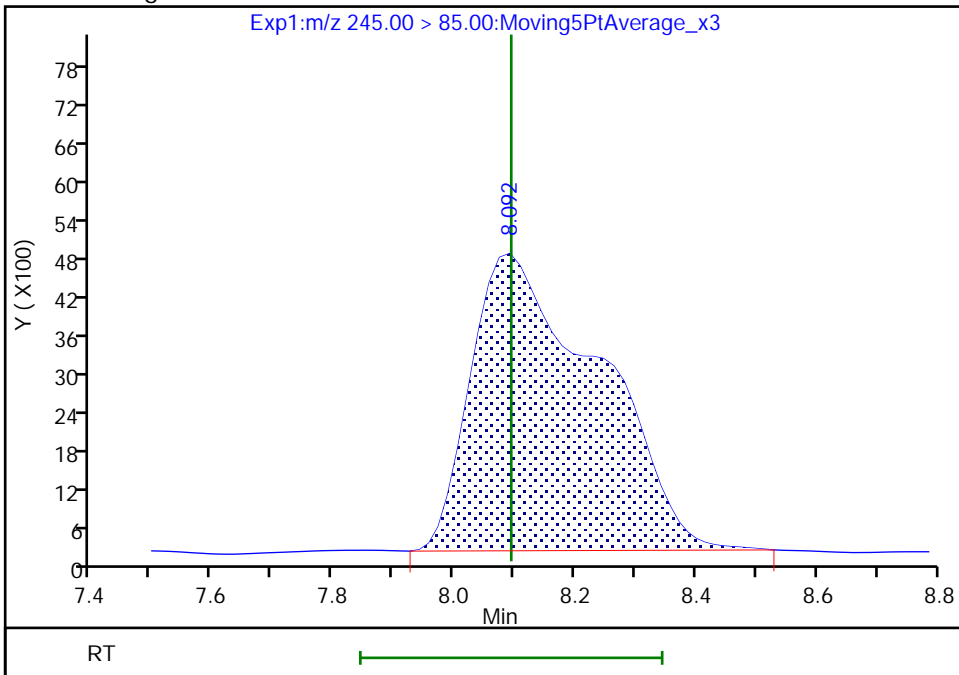
RT: 8.09  
Area: 68403  
Amount: 0.004932  
Amount Units: ng/ml

Processing Integration Results



RT: 8.09  
Area: 68300  
Amount: 0.004680  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 15-Dec-2020 21:04:43 ALS Bottle#: 7 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (41  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:04:09 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:26:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.785	2.785	0.0		118183	0.009564		95.6	293	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		48470	0.009646		96.5	876	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		24062	0.009423		94.2	594	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.859	6.860	-0.001		109182	0.009590		95.9	2236	M
5 PMPA										
229.00 > 185.00	6.885	6.885	0.0		109924	0.009567		95.7	115	
6 NVHOS										M
297.00 > 135.00	7.470	7.457	0.013		154419	0.009646		96.5	1672	M
7 PFO2HxA										
245.00 > 85.00	8.092	8.094	-0.002		142610	0.009773		97.7	912	
8 PEPA										
278.90 > 234.90	8.744	8.739	0.005		91722	0.009656		96.6	405	
9 PES										
314.90 > 135.00	9.071	9.044	0.027		859891	0.009794		97.9	18462	
10 PFECA B										
295.00 > 201.00	9.286	9.279	0.007		110038	0.0103		103	3823	
11 PFO3OA										
310.90 > 85.00	9.531	9.516	0.015		121134	0.0099		99.4	1544	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.641	9.599	0.042		1224836	0.2485		99.4	35436	
13 HPFO-DA										
285.00 > 169.00	9.641	9.627	0.015	1.000	55790	0.0100		100	1639	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.000	9.957	0.043		1058898	0.009895		98.9	24035	
16 Hydro-EVE Acid										
427.00 > 282.90	10.028	10.013	0.015		552501	0.009632		96.3	8712	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.028	10.013	0.015	1.000	248784	0.009554	Target=0.00	95.5	4558	
363.00 > 169.00	10.028	10.013	0.015	1.000	150143		1.66(0.00-0.00)	95.5	3440	
D 15 13C4 PFHpA										
367.00 > 322.00	10.028	10.013	0.015		6138902	0.2701		108	187657	
17 Hydro-PS Acid										
463.00 > 262.90	10.081	10.042	0.039		369602	0.0103		103	9404	
19 PFECA G										
378.90 > 184.90	10.155	10.145	0.010		253267	0.0100		100	8275	
20 PFO4DA										
376.90 > 85.00	10.304	10.269	0.035		137749	0.0102		102	1376	
21 PS Acid										
443.00 > 146.90	10.378	10.344	0.034		177794	0.0108		108	5916	
22 EVE Acid										
407.00 > 262.90	10.378	10.344	0.034		589903	0.0107		107	19475	
23 TAF										
442.90 > 85.00	10.863	10.847	0.015		33386	0.009318		93.2	107	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00041

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d

Injection Date: 15-Dec-2020 21:04:43

Instrument ID: A7\_N

Lims ID: IC STD 4

Client ID:

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

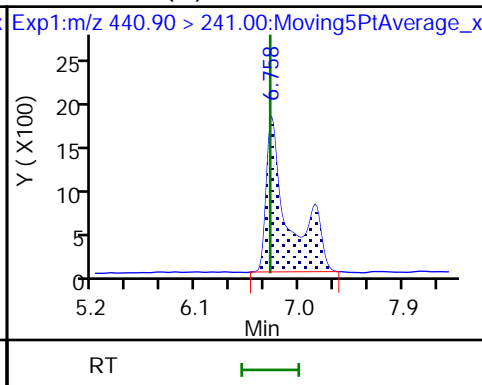
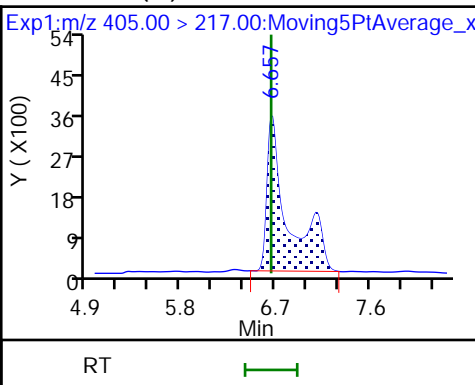
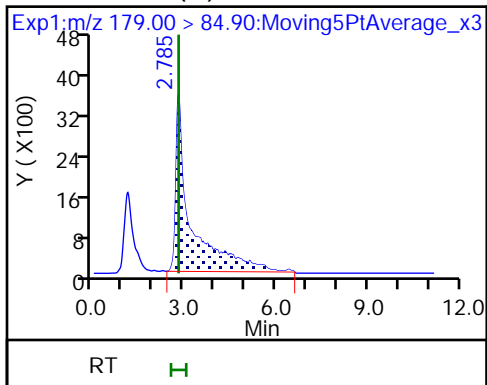
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

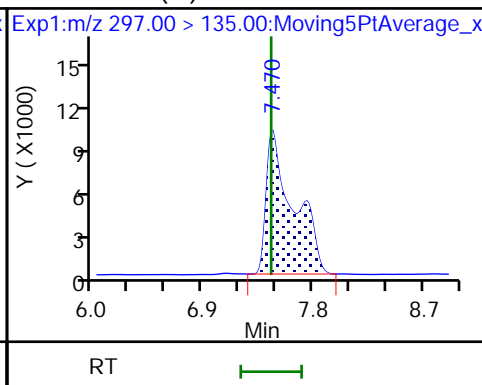
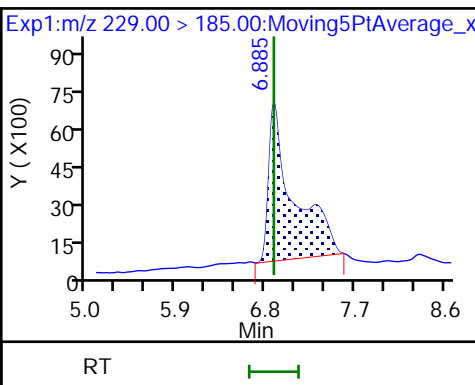
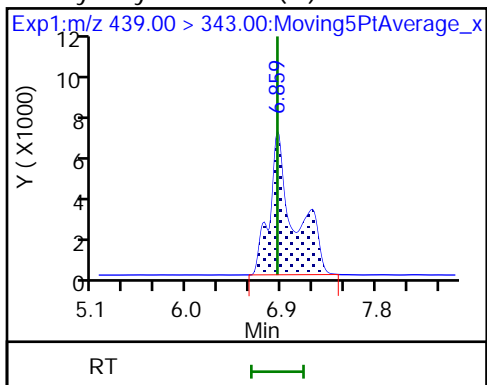
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA

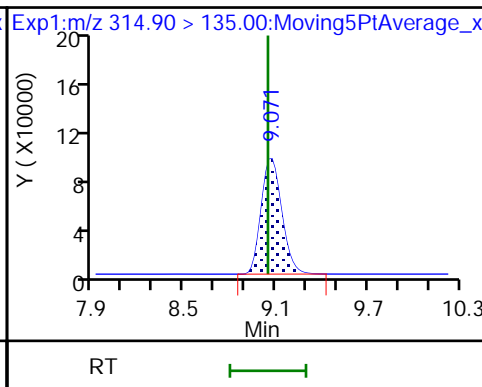
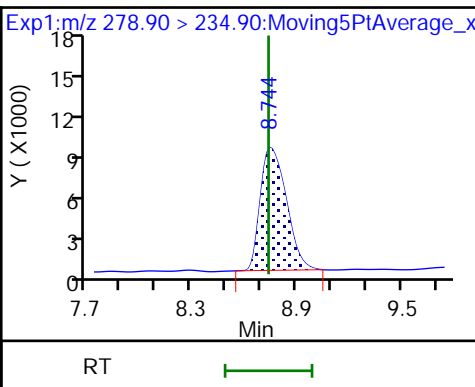
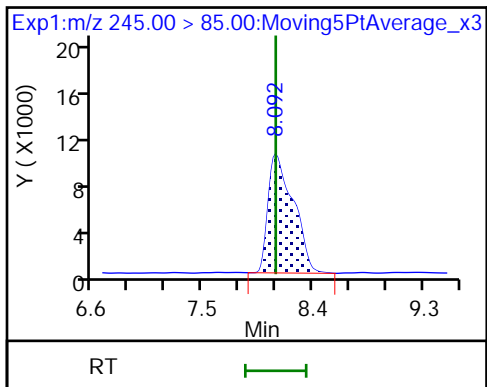
6 NVHOS (M)



7 PFO2HxA

8 PEPA

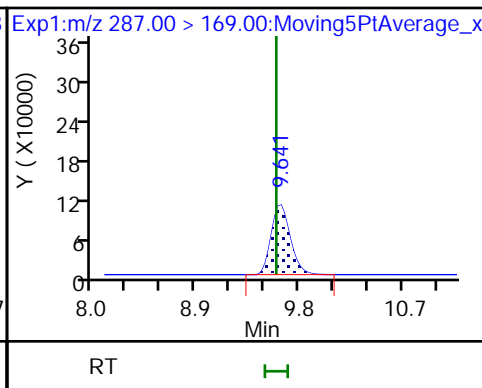
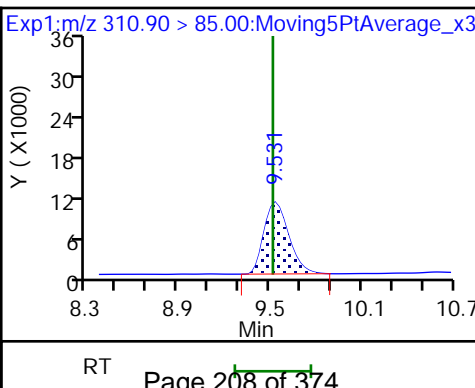
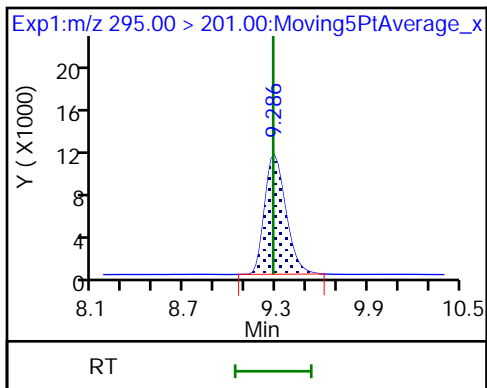
9 PES

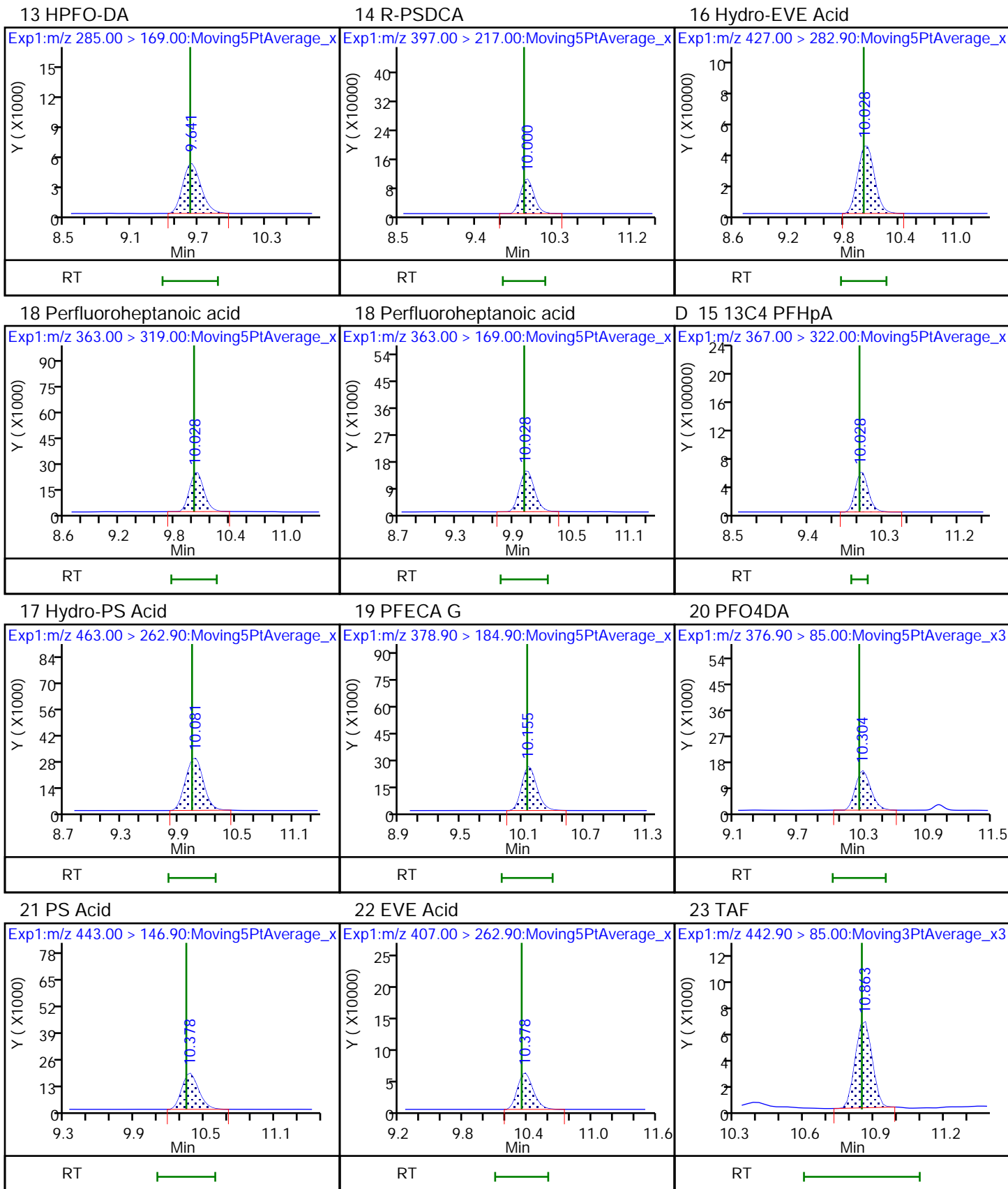


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

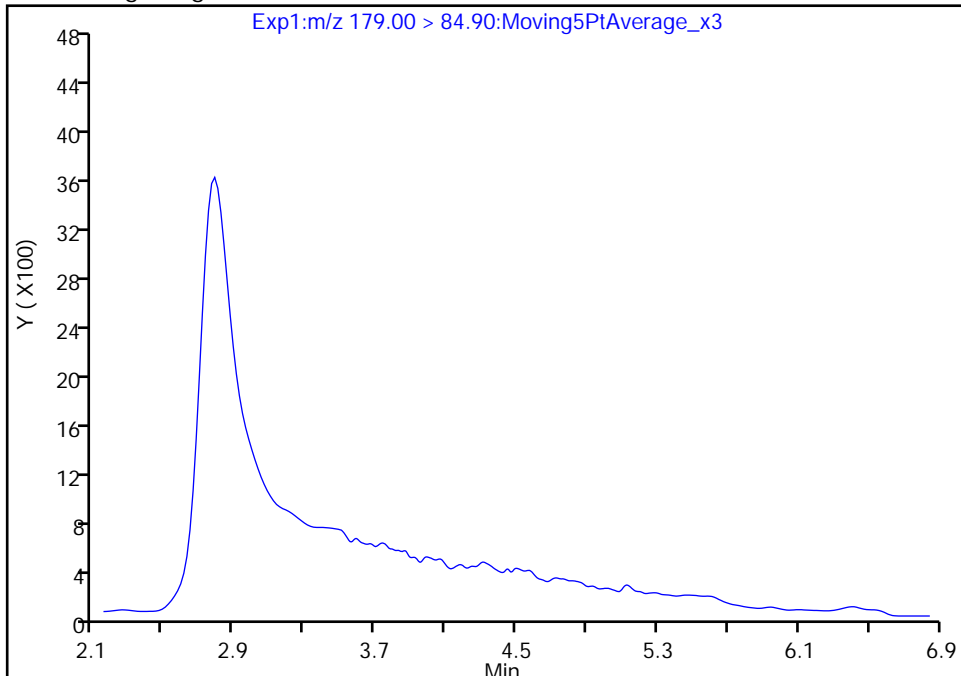
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

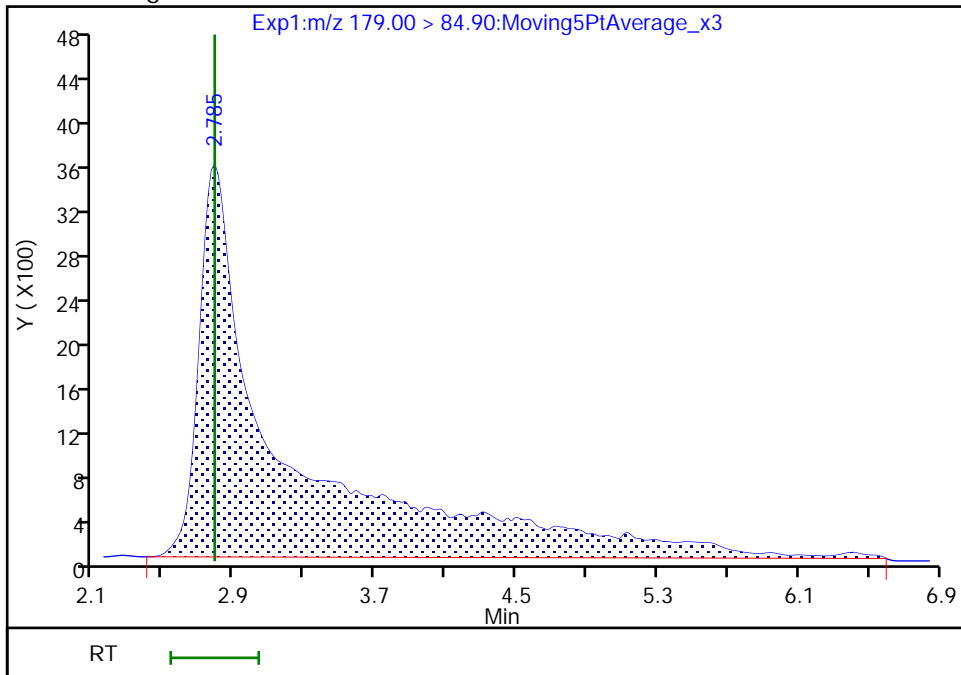
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.79  
Area: 118183  
Amount: 0.009564  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

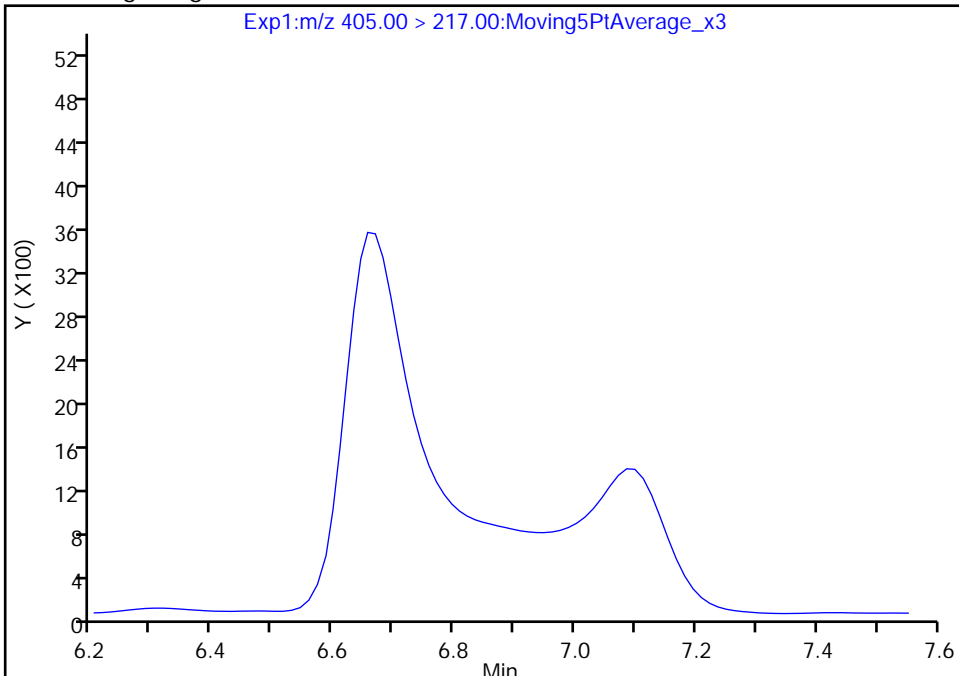
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

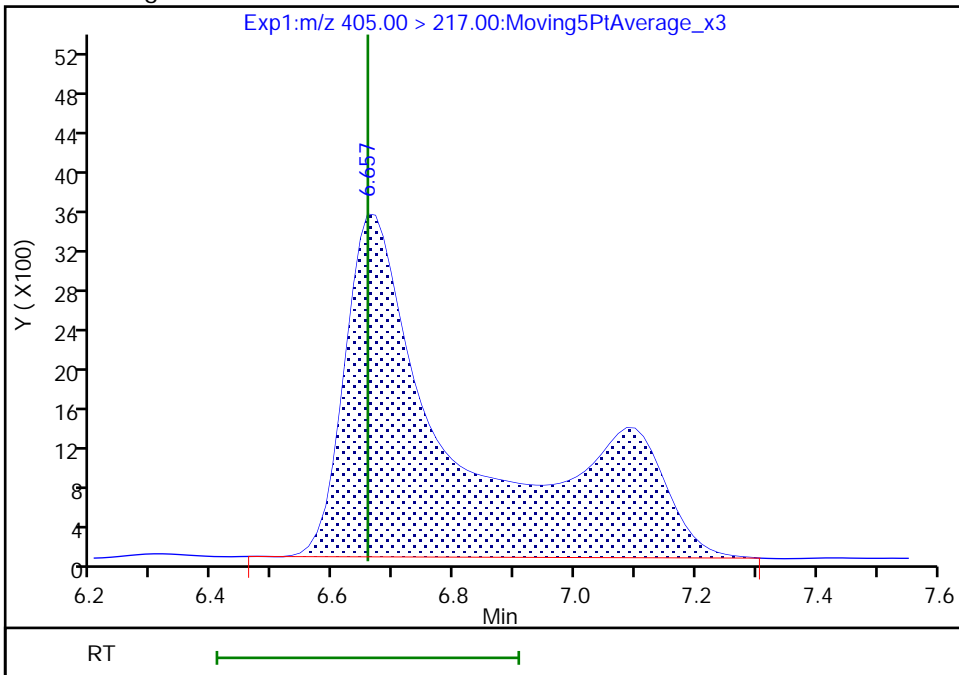
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.66  
Area: 48470  
Amount: 0.009646  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:25:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

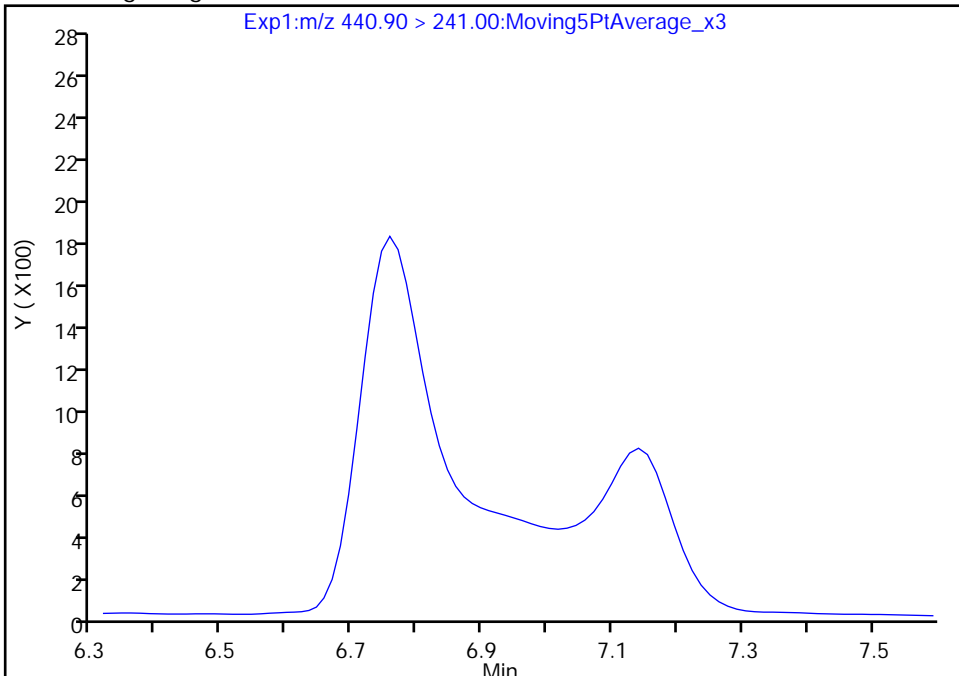
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

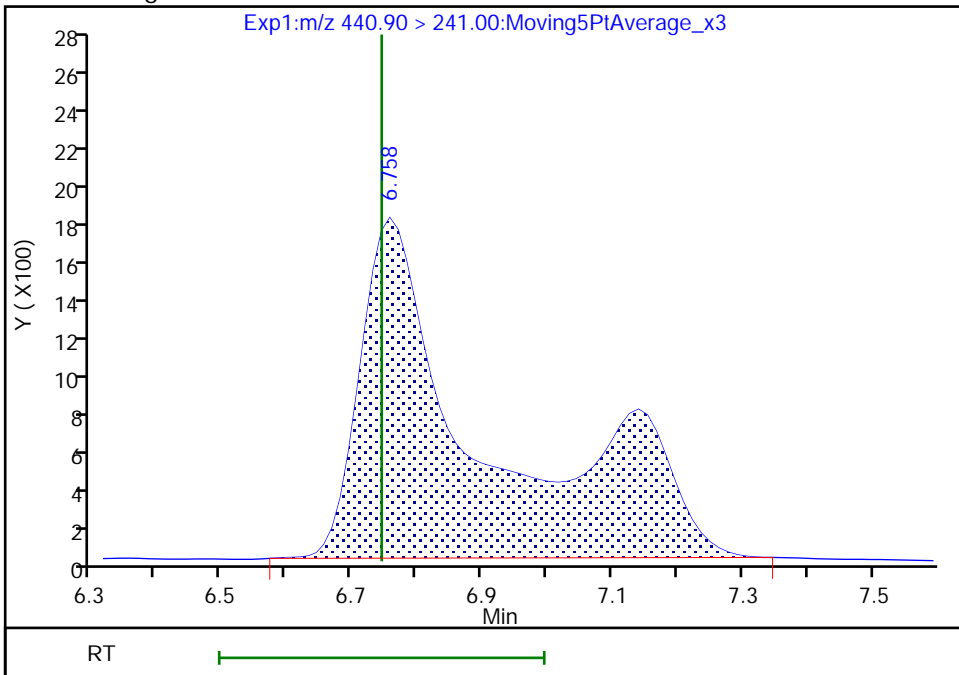
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.76  
Area: 24062  
Amount: 0.009423  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:25:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

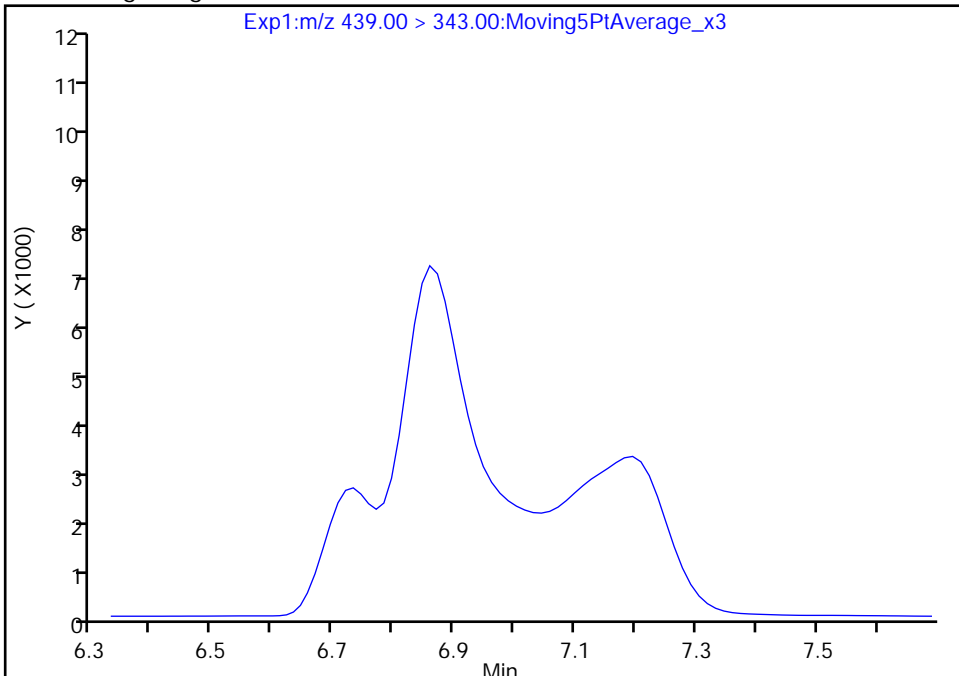
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

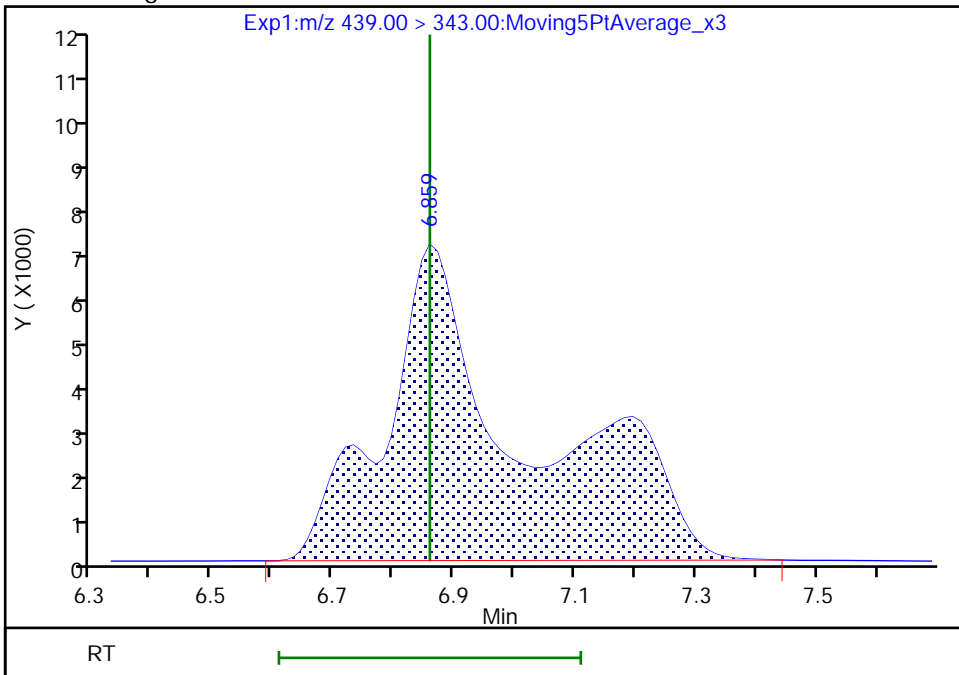
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 109182  
Amount: 0.009590  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:25:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

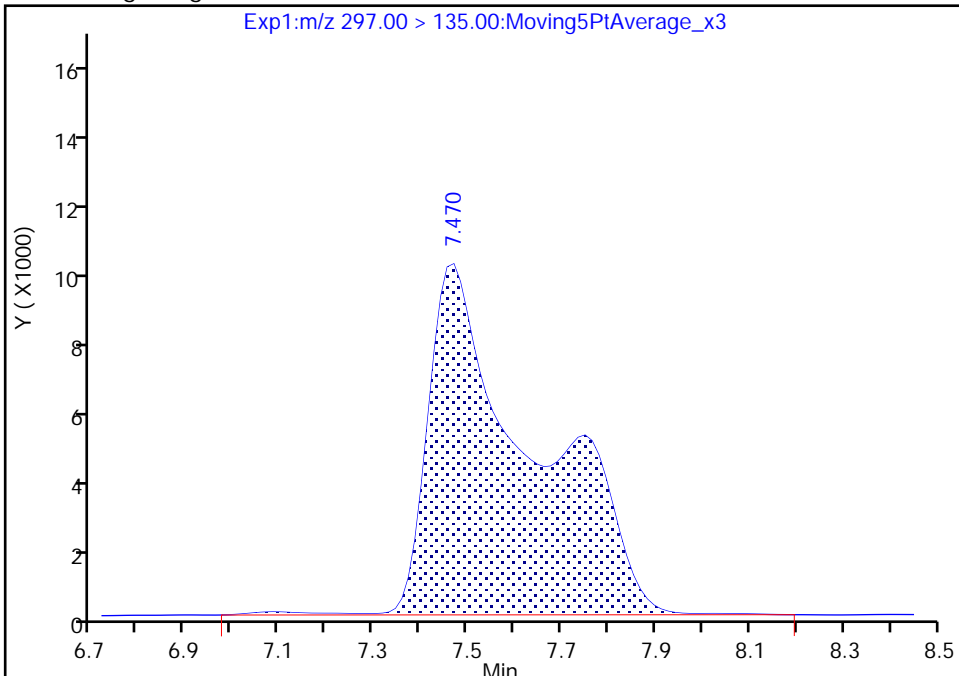
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

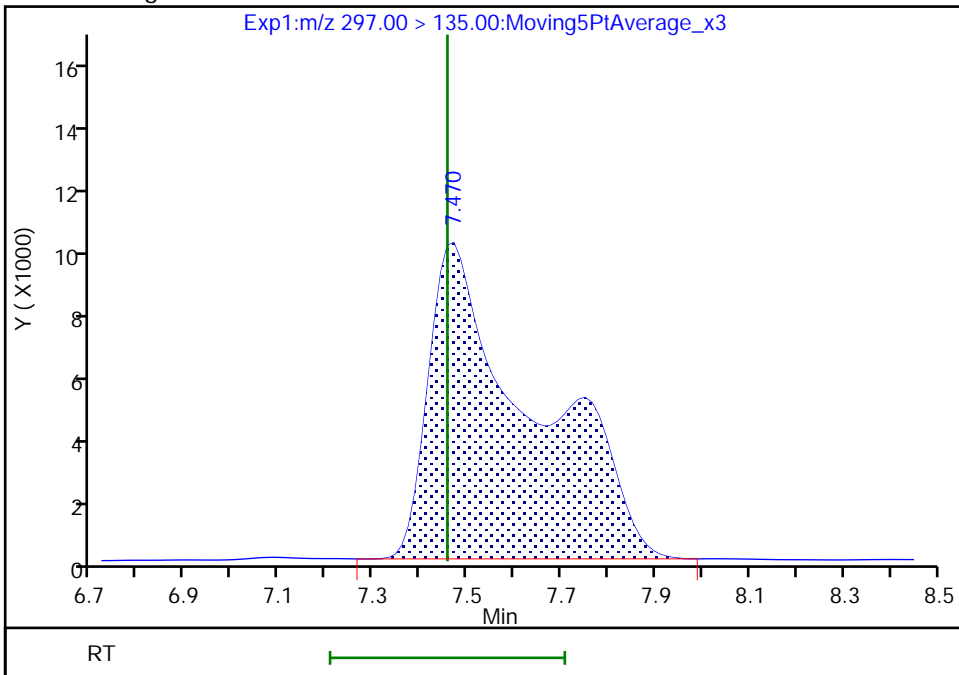
RT: 7.47  
Area: 156852  
Amount: 0.012758  
Amount Units: ng/ml

Processing Integration Results



RT: 7.47  
Area: 154419  
Amount: 0.009646  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 15-Dec-2020 21:22:18 ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (51  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:14 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:38:05

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.803	2.785	0.018		286892	0.0232		92.9	791	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		129927	0.0259		103	2392	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		61642	0.0241		96.6	1457	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.860	6.860	0.0		285958	0.0251		100	5709	M
5 PMPA										
229.00 > 185.00	6.898	6.885	0.013		282506	0.0246		98.4	296	
6 NVHOS										M
297.00 > 135.00	7.471	7.457	0.014		400267	0.0250		100	4289	M
7 PFO2HxA										M
245.00 > 85.00	8.092	8.094	-0.002		369085	0.0253		101	2173	M
8 PEPA										
278.90 > 234.90	8.753	8.739	0.014		237946	0.0250		100	1124	
9 PES										
314.90 > 135.00	9.062	9.044	0.018		2196487	0.0250		100	47173	
10 PFECA B										
295.00 > 201.00	9.276	9.279	-0.003		280903	0.0263		105	9933	
11 PFO3OA										
310.90 > 85.00	9.514	9.516	-0.002		283125	0.0232		92.9	4221	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.624	9.599	0.025		1245930	0.2528		101	36596	
13 HPFO-DA										
285.00 > 169.00	9.624	9.627	-0.002	1.000	142656	0.0252		101	4207	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		2904319	0.0271		109	65677	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		1421503	0.0248		99.1	22364	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	633489	0.0262	Target=0.00	105	9694	
363.00 > 169.00	10.039	10.013	0.026	1.000	380034		1.67(0.00-0.00)	105	8739	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5909032	0.2600		104	180739	
17 Hydro-PS Acid										
463.00 > 262.90	10.066	10.042	0.024		895275	0.0251		100	22180	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		670411	0.0265		106	21725	
20 PFO4DA										
376.90 > 85.00	10.290	10.269	0.021		343798	0.0255		102	3379	
21 PS Acid										
443.00 > 146.90	10.365	10.344	0.021		407094	0.0246		98.5	10076	
22 EVE Acid										
407.00 > 262.90	10.365	10.344	0.021		1410907	0.0257		103	46409	
23 TAF										
442.90 > 85.00	10.855	10.847	0.008		94489	0.0264		105	332	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00051

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d

Injection Date: 15-Dec-2020 21:22:18

Instrument ID: A7\_N

Lims ID: IC STD 5

Client ID:

Operator ID: abservice

ALS Bottle#: 8

Worklist Smp#: 6

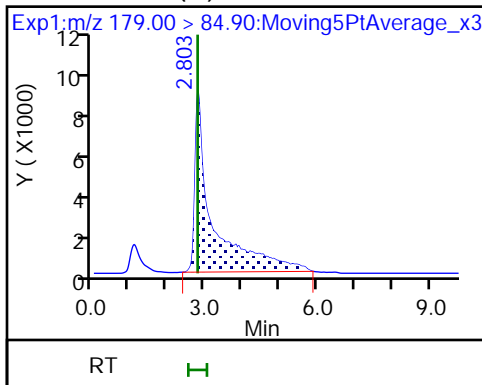
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

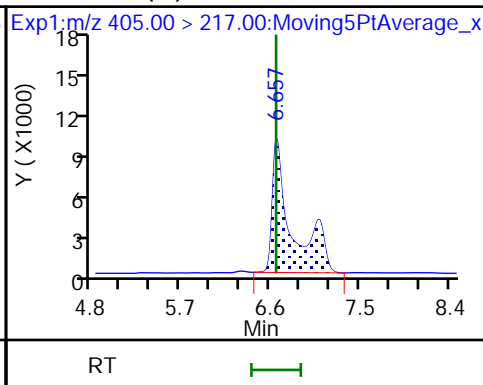
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

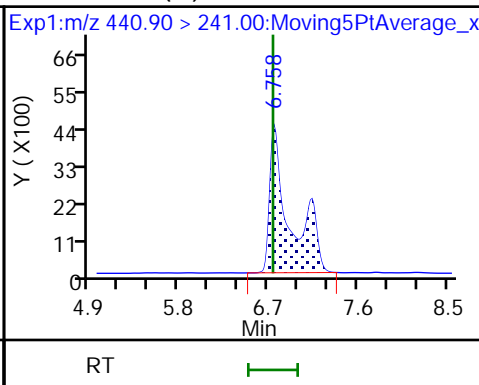
1 PFMOAA (M)



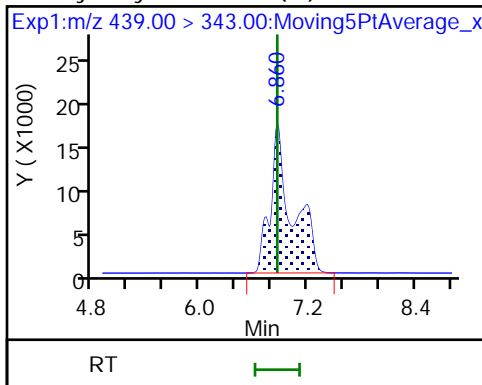
2 R-EVE (M)



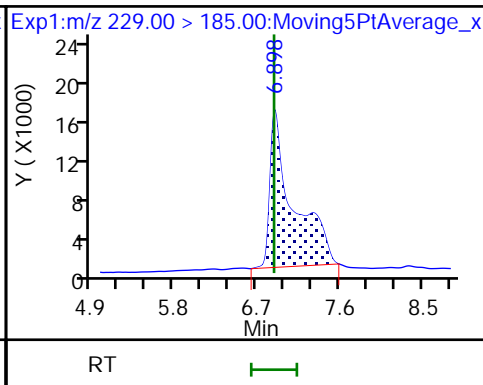
3 R-PSDA (M)



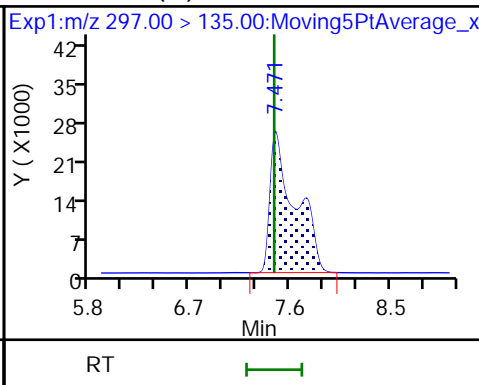
4 Hydrolyzed PSDA (M)



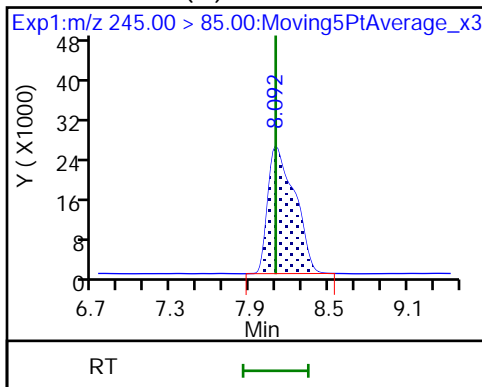
5 PMPA



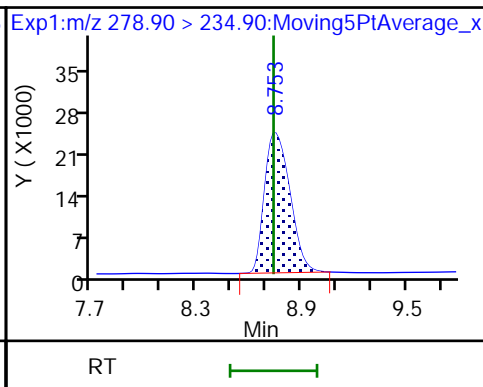
6 NVHOS (M)



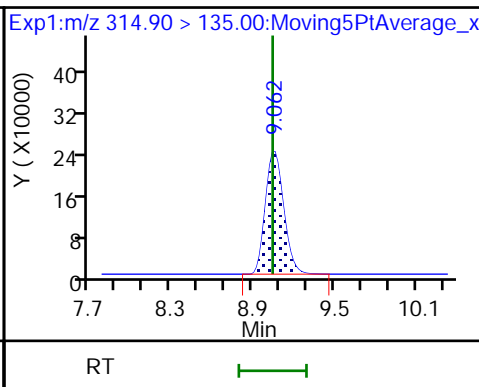
7 PFO2HxA (M)



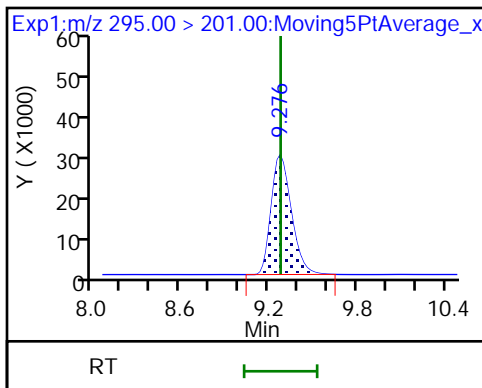
8 PEPA



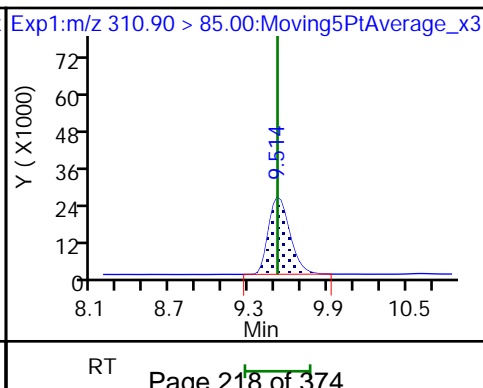
9 PES



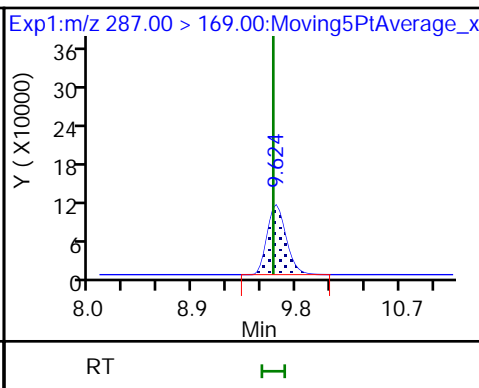
10 PFECA B



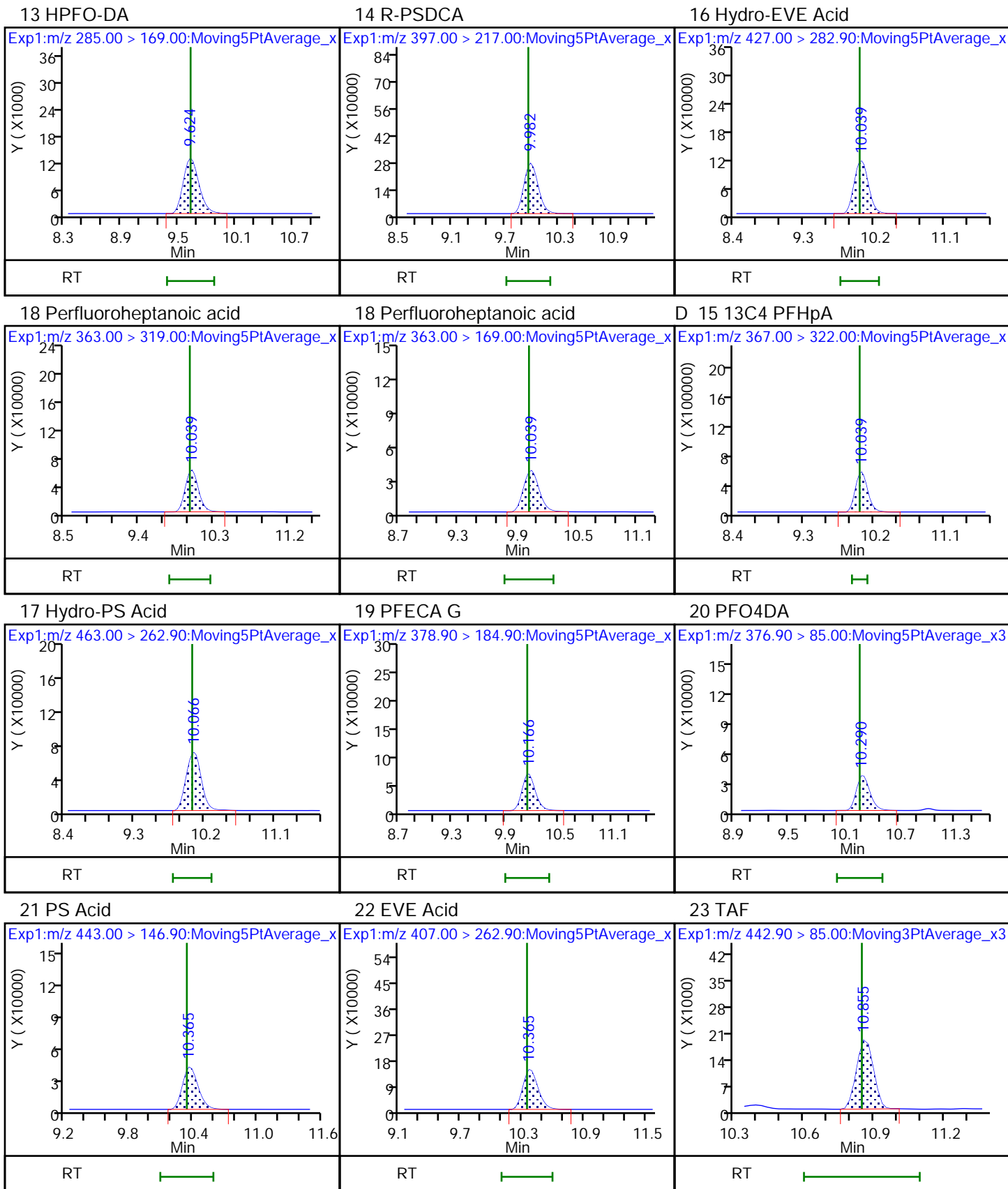
11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

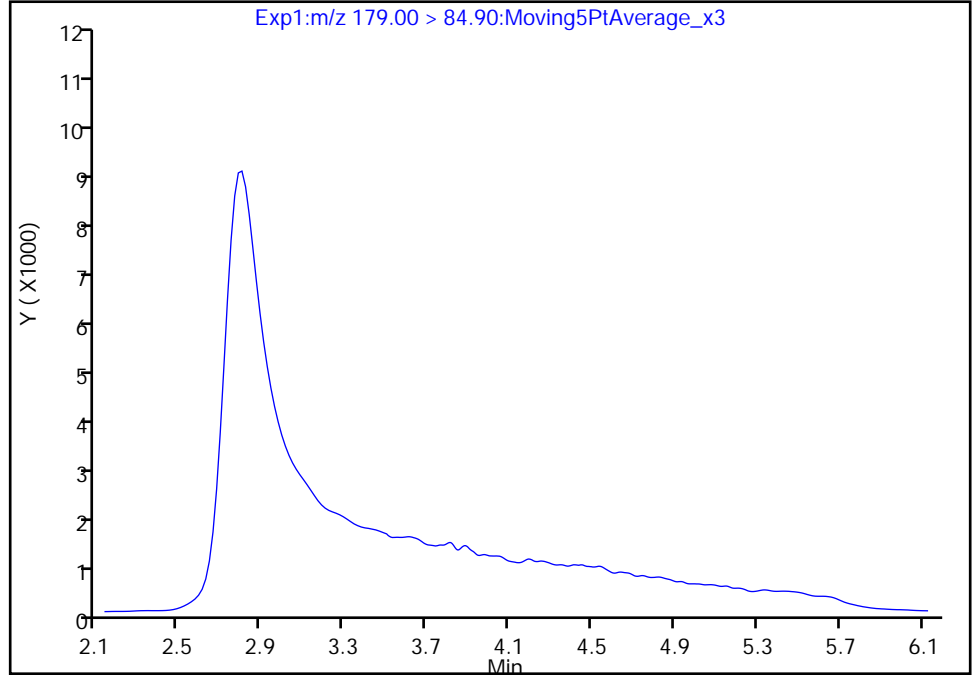
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

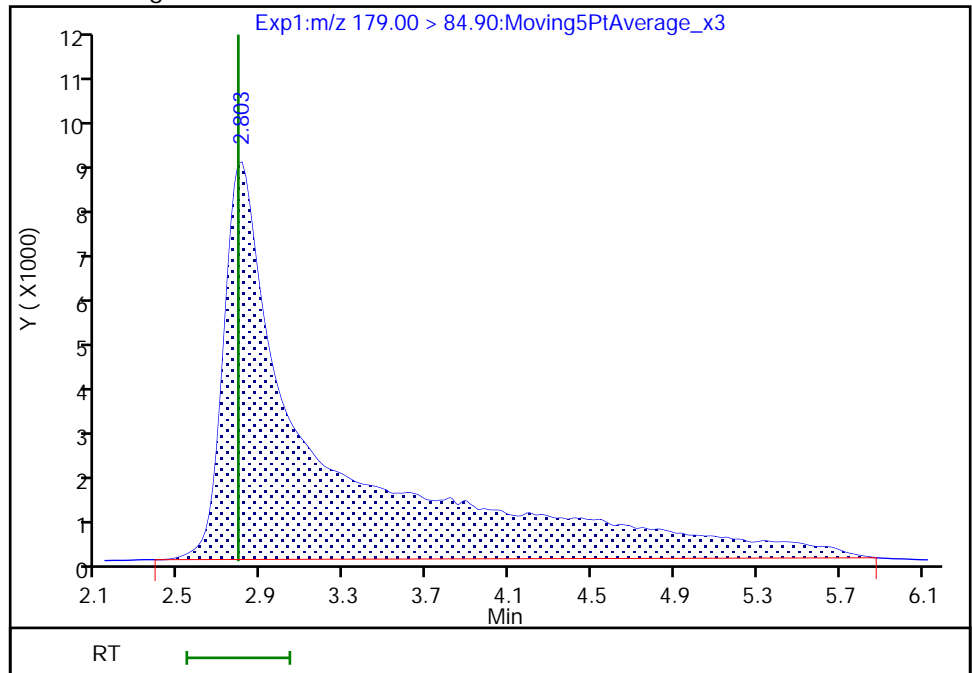
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.80  
Area: 286892  
Amount: 0.023218  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:37:26  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

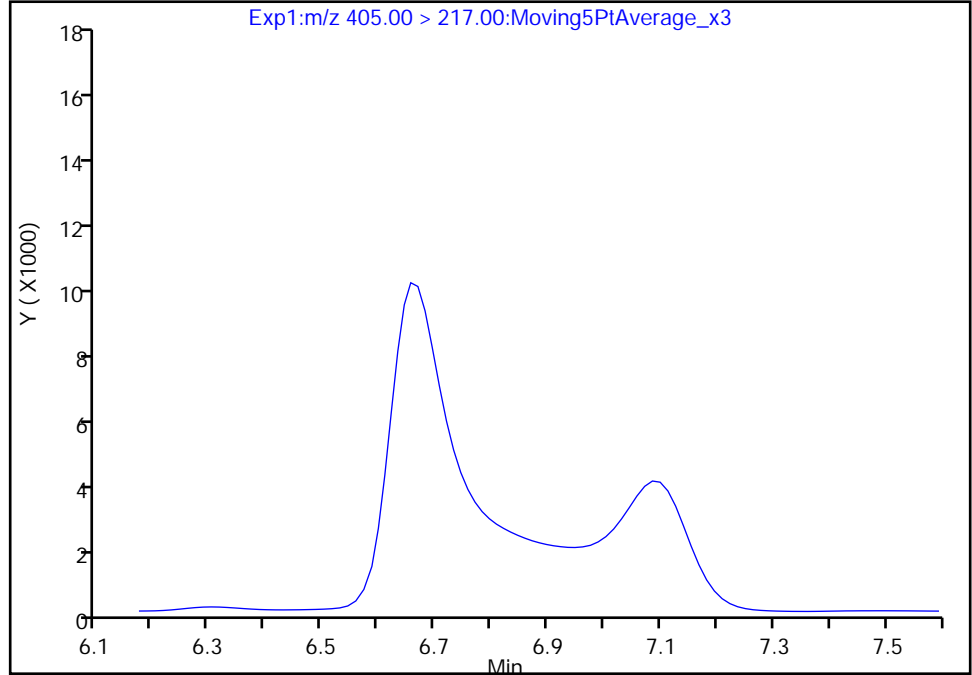
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

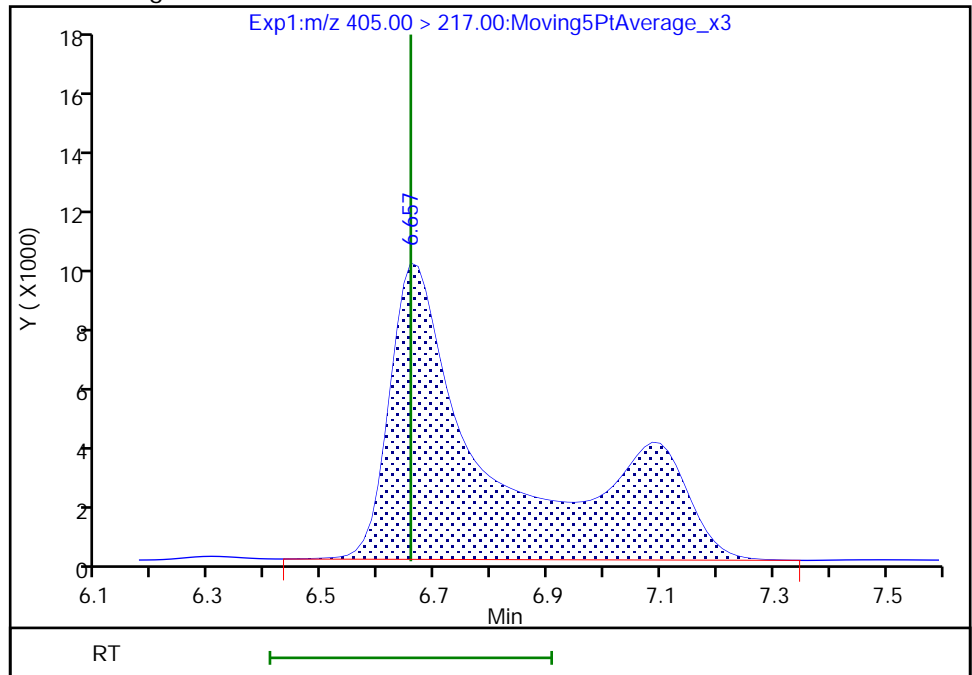
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.66  
Area: 129927  
Amount: 0.025856  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:44:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

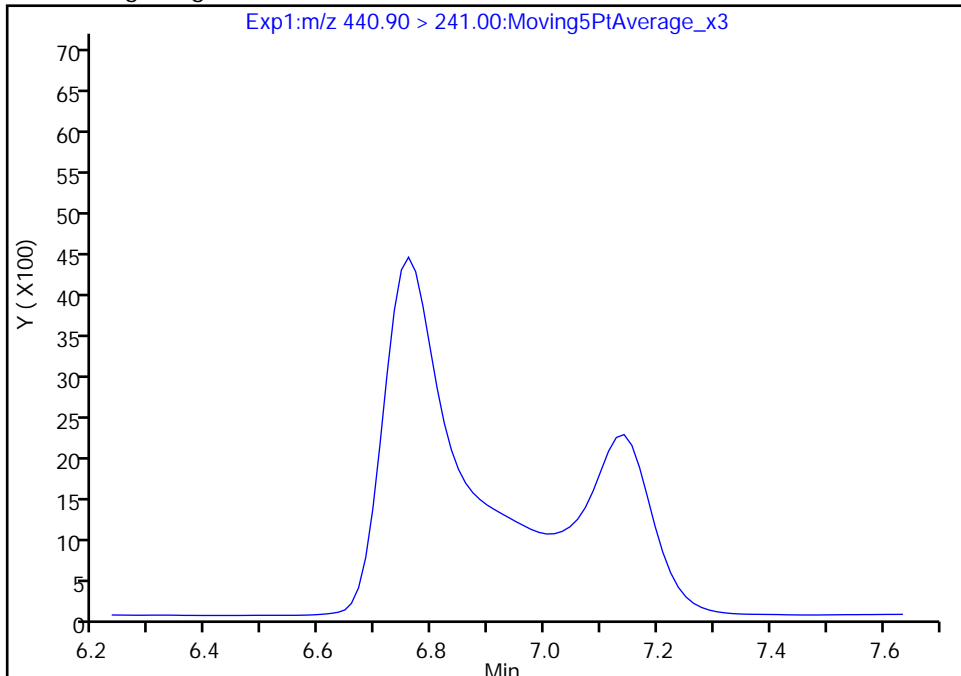
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

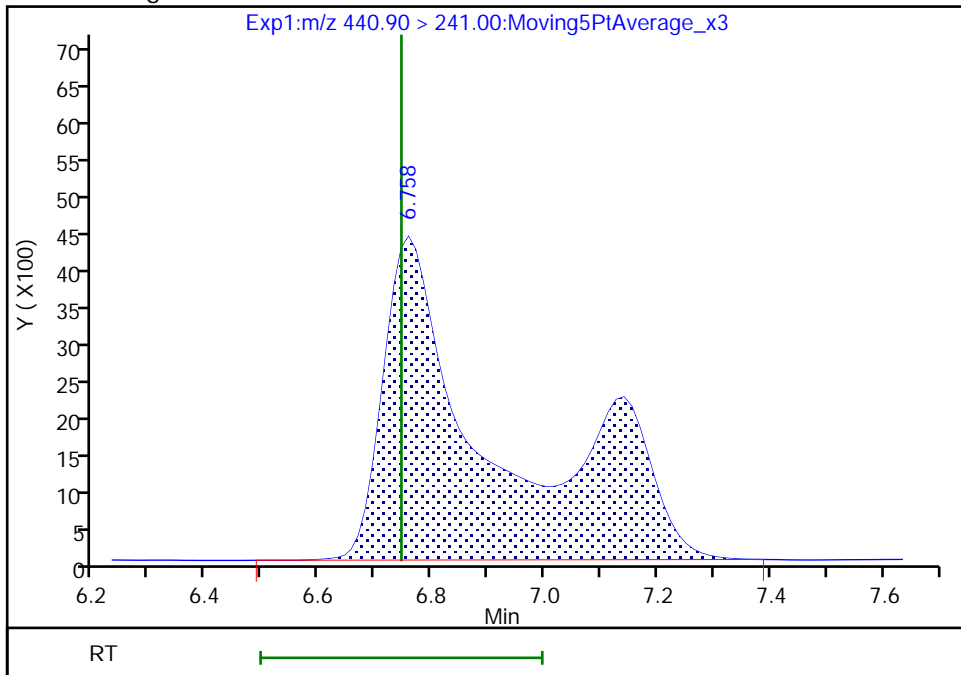
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.76  
Area: 61642  
Amount: 0.024139  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:37:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

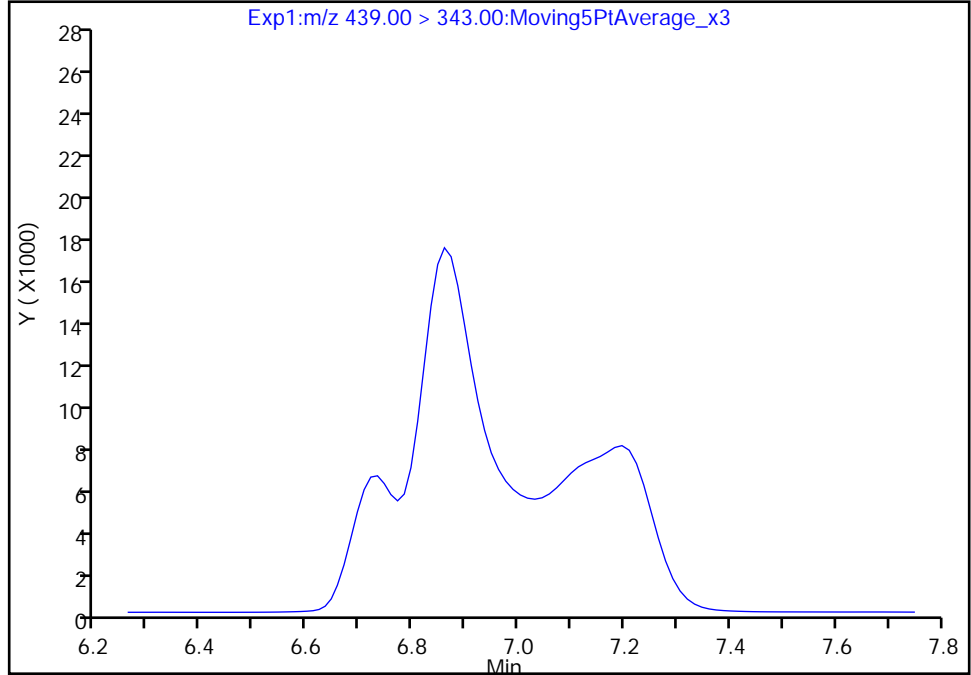
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

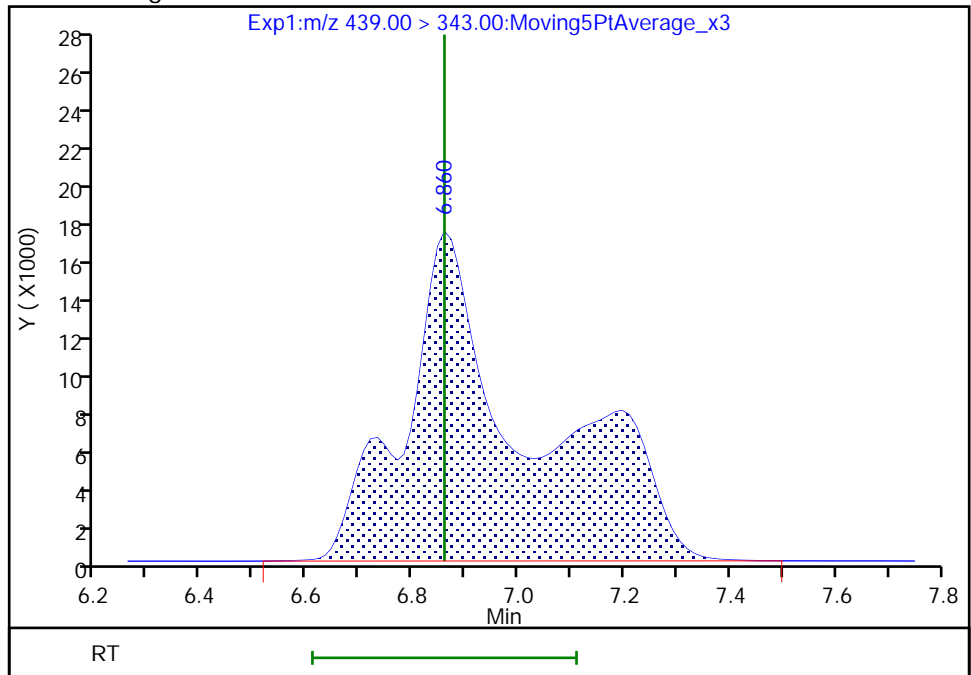
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 285958  
Amount: 0.025117  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:37:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

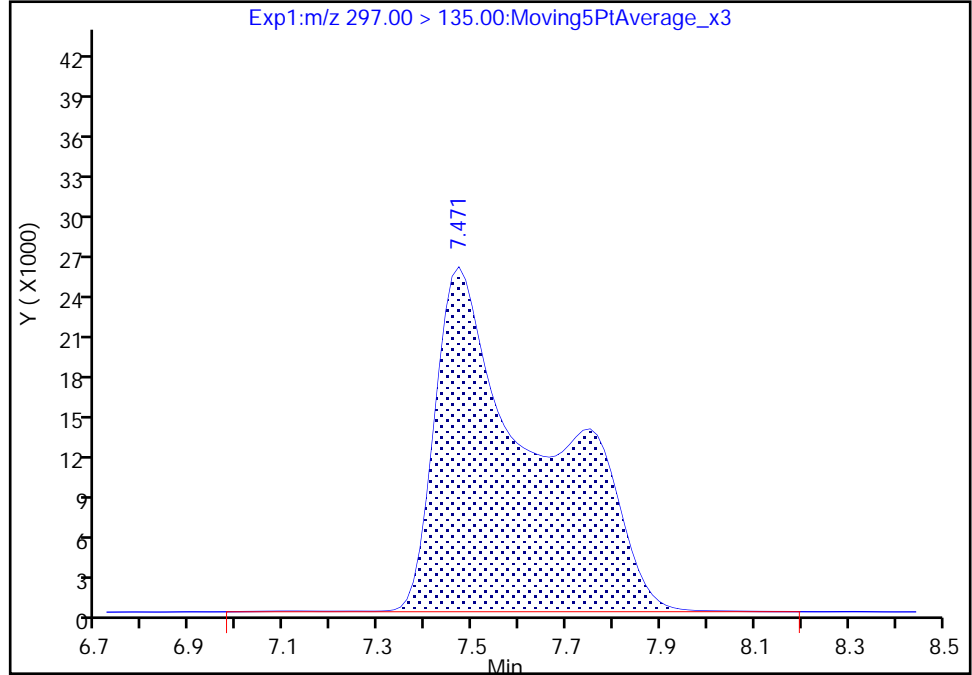
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Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

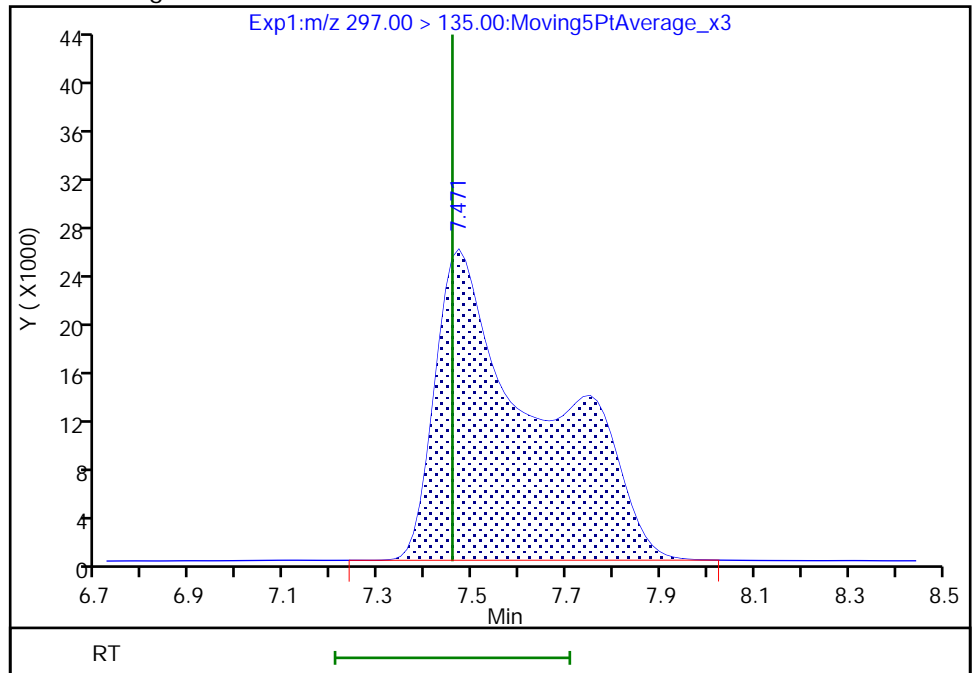
RT: 7.47  
Area: 402517  
Amount: 0.032806  
Amount Units: ng/ml

Processing Integration Results



RT: 7.47  
Area: 400267  
Amount: 0.025003  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

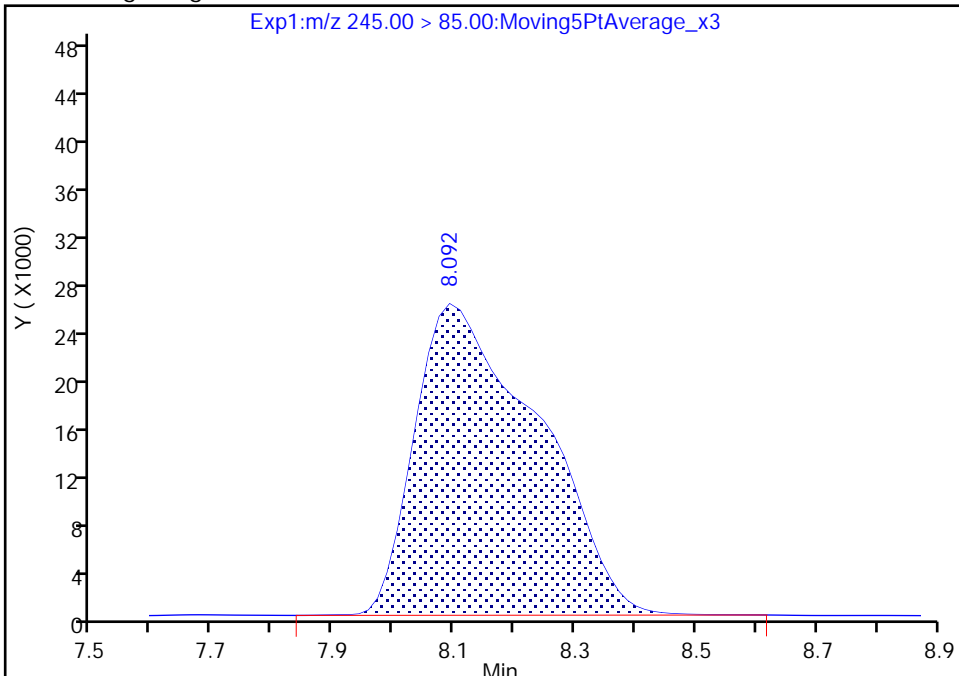
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 Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
 Lims ID: IC STD 5  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

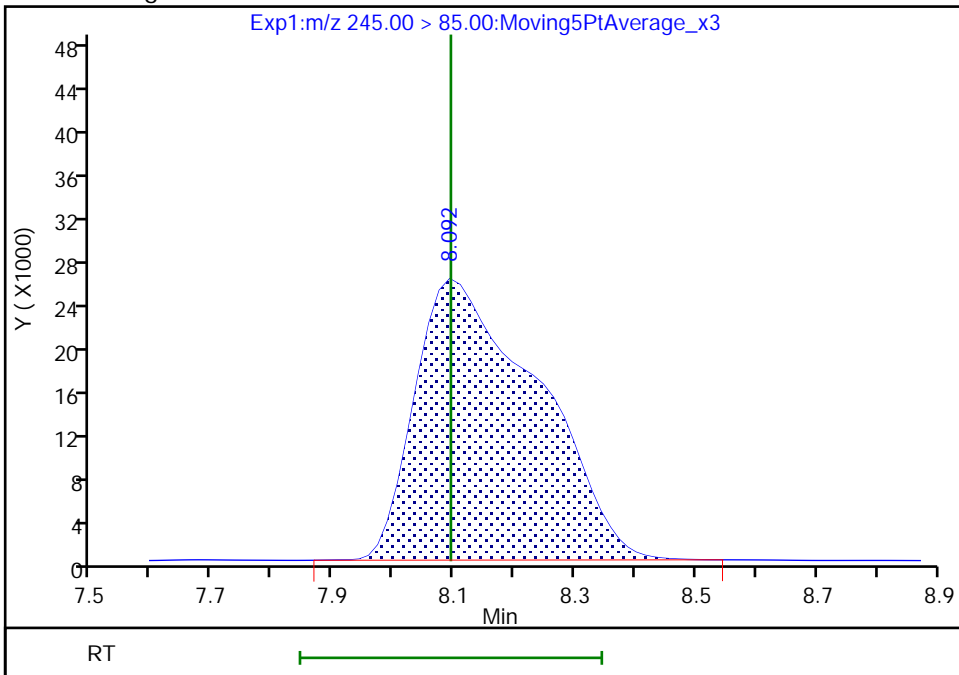
RT: 8.09  
 Area: 369755  
 Amount: 0.026664  
 Amount Units: ng/ml

Processing Integration Results



RT: 8.09  
 Area: 369085  
 Amount: 0.025292  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:37:50  
 Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 15-Dec-2020 21:39:54 ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (51  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:35 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:39:02

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.680	2.785	-0.105		621014	0.0503		101	1453	M
2 R-EVE										M
405.00 > 217.00	6.599	6.657	-0.058		271839	0.0541		108	4680	M
3 R-PSDA										M
440.90 > 241.00	6.695	6.746	-0.051		136730	0.0535		107	3048	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.809	6.860	-0.051		618080	0.0543		109	11513	M
5 PMPA										M
229.00 > 185.00	6.847	6.885	-0.038		599690	0.0522		104	508	M
6 NVHOS										M
297.00 > 135.00	7.443	7.457	-0.014		848428	0.0530		106	8682	M
7 PFO2HxA										M
245.00 > 85.00	8.075	8.094	-0.019		760425	0.0521		104	3949	M
8 PEPA										M
278.90 > 234.90	8.737	8.739	-0.002		502517	0.0529		106	1701	M
9 PES										M
314.90 > 135.00	9.042	9.044	-0.002		4632908	0.0528		106	81739	M
10 PFECA B										M
295.00 > 201.00	9.276	9.279	-0.003		571056	0.0535		107	19709	M
11 PFO3OA										M
310.90 > 85.00	9.513	9.516	-0.003		672980	0.0552		110	8657	M
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1273217	0.2583		103	37289	M
13 HPFO-DA										M
285.00 > 169.00	9.624	9.627	-0.002	1.000	302640	0.0523		105	8902	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		5790043	0.0541		108	104664	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		3092904	0.0539		108	40528	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	1282697	0.0555	Target=0.00	111	19577	
363.00 > 169.00	10.039	10.013	0.026	1.000	748067		1.71(0.00-0.00)	111	17119	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5716892	0.2515		101	173777	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		1863519	0.0522		104	45780	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		1264482	0.0500		100	40547	
20 PFO4DA										
376.90 > 85.00	10.290	10.269	0.021		794348	0.0590		118	7866	
21 PS Acid										
443.00 > 146.90	10.364	10.344	0.020		892902	0.0540		108	22147	
22 EVE Acid										
407.00 > 262.90	10.364	10.344	0.020		2947292	0.0537		107	72821	
23 TAF										
442.90 > 85.00	10.858	10.847	0.011		165558	0.0462		92.4	488	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00051

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d

Injection Date: 15-Dec-2020 21:39:54

Instrument ID: A7\_N

Lims ID: IC STD 6

Client ID:

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 7

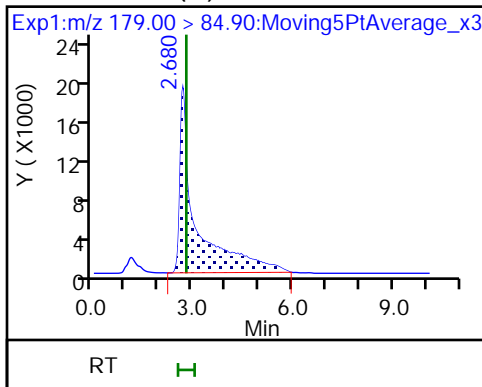
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

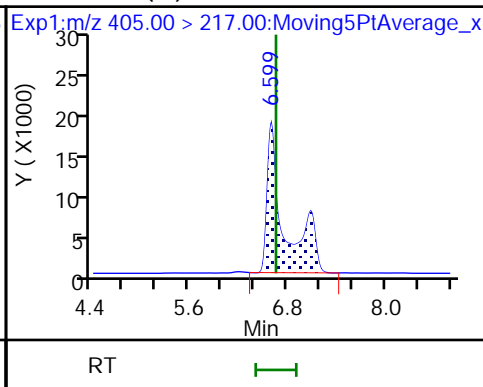
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

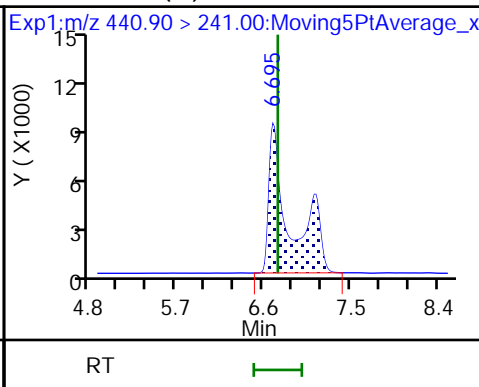
1 PFMOAA (M)



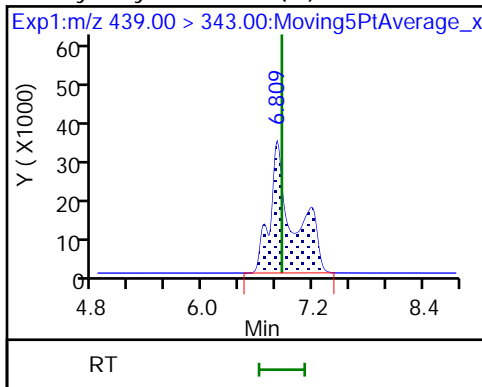
2 R-EVE (M)



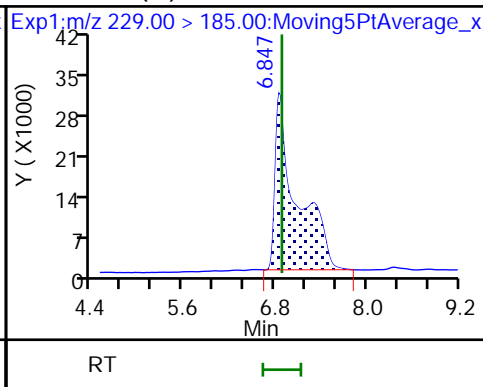
3 R-PSDA (M)



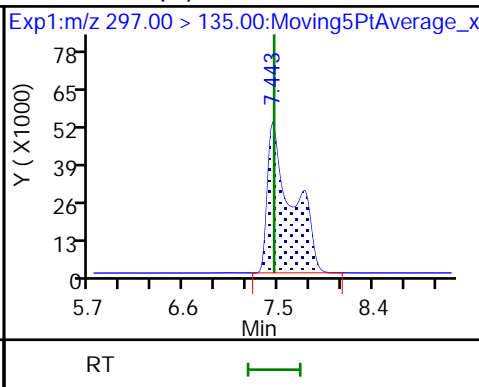
4 Hydrolyzed PSDA (M)



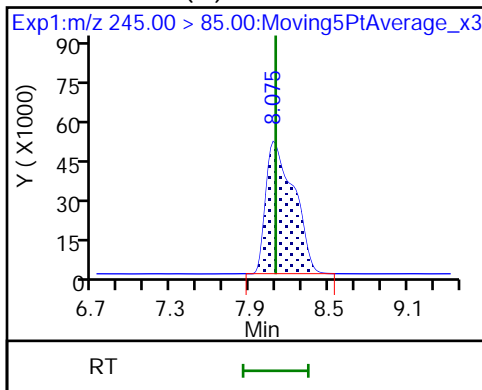
5 PMPA (M)



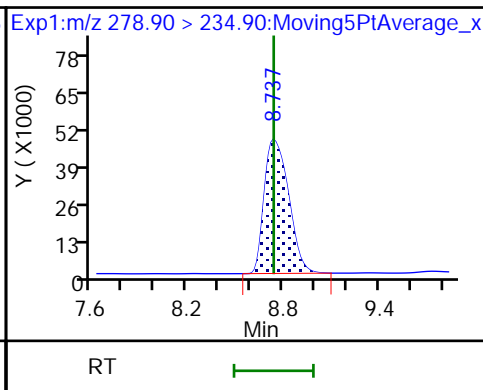
6 NVHOS (M)



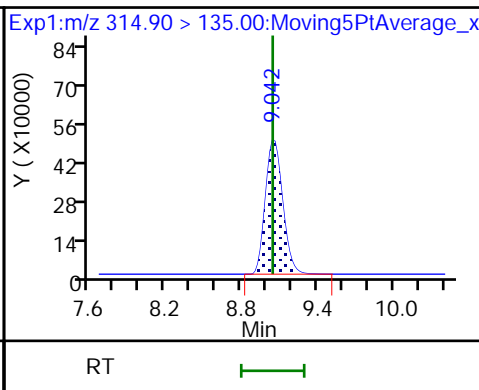
7 PFO2HxA (M)



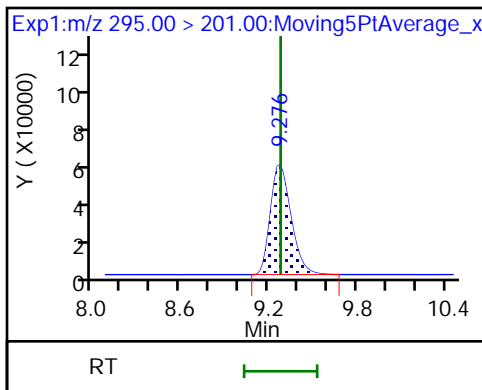
8 PEPA



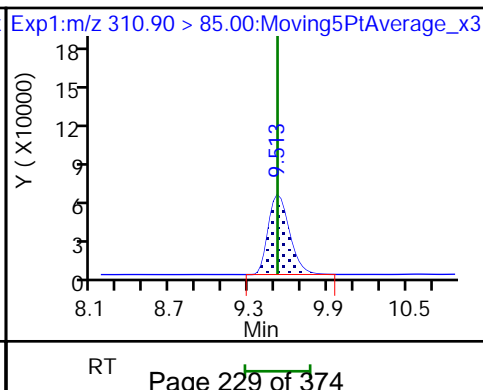
9 PES



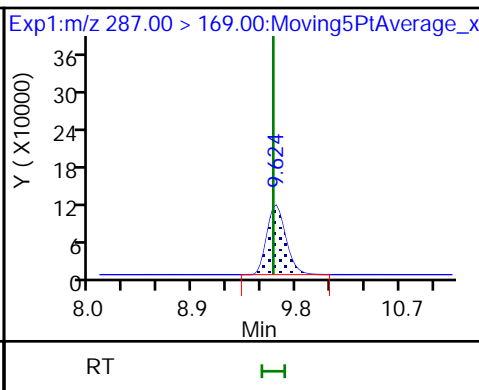
10 PFECA B

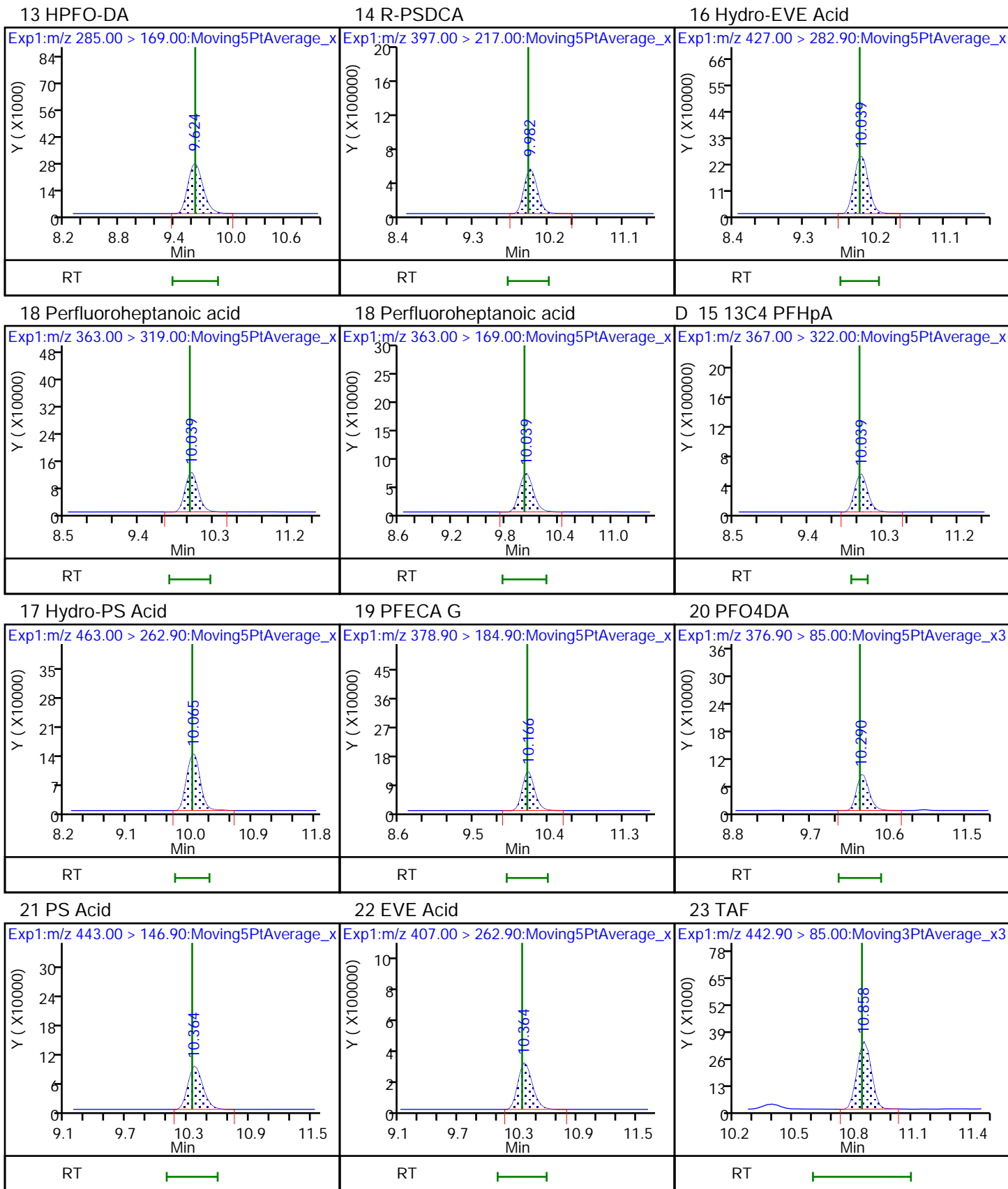


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

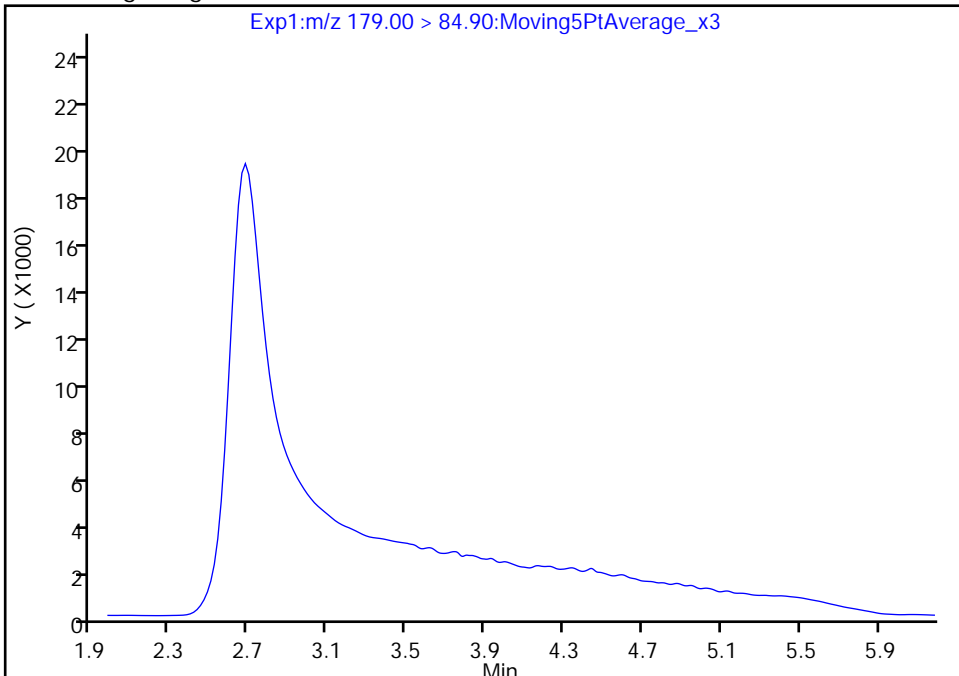
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

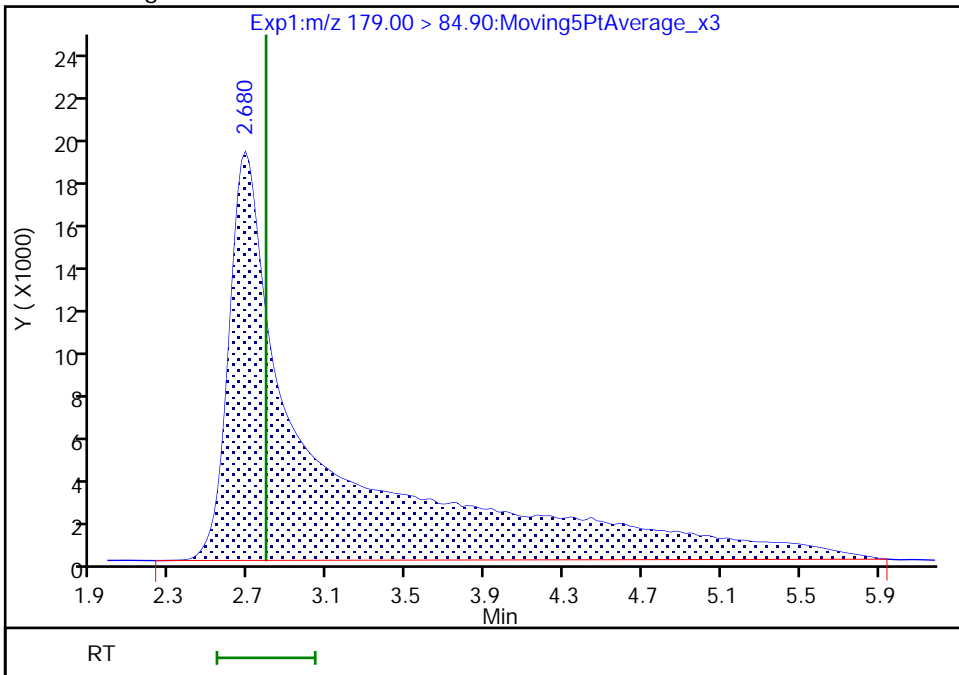
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.68  
Area: 621014  
Amount: 0.050258  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:38:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

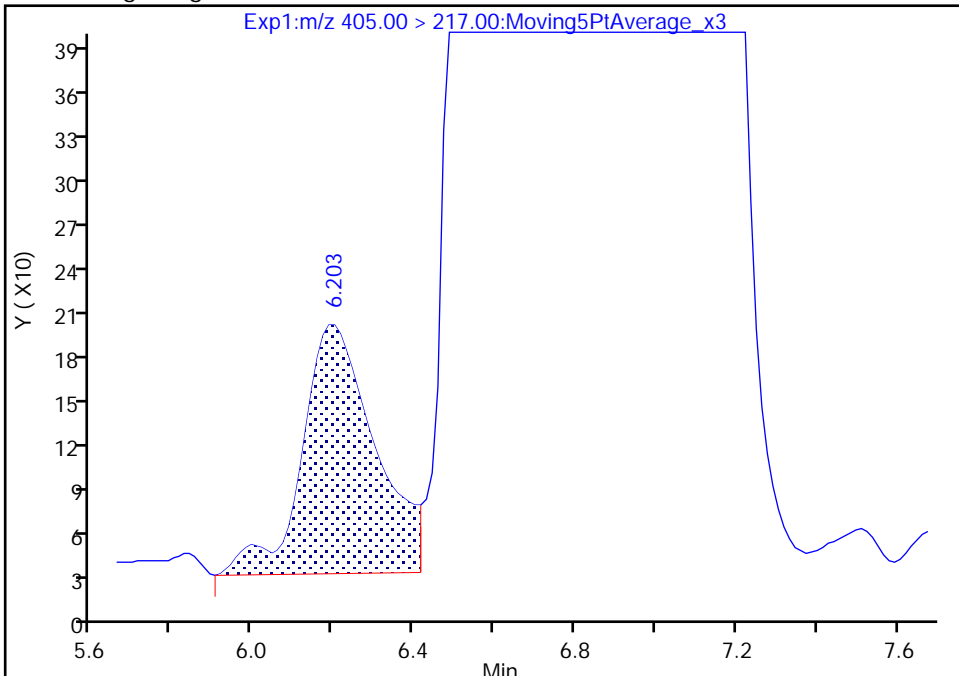
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

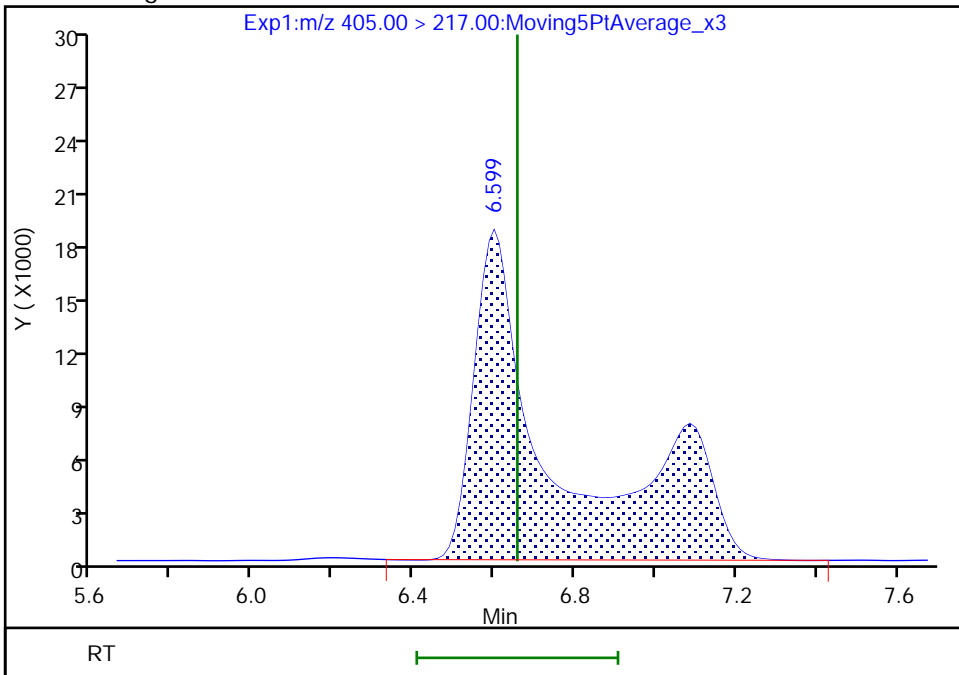
RT: 6.20  
Area: 2145  
Amount: 0.000867  
Amount Units: ng/ml

Processing Integration Results



RT: 6.60  
Area: 271839  
Amount: 0.054098  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:44:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

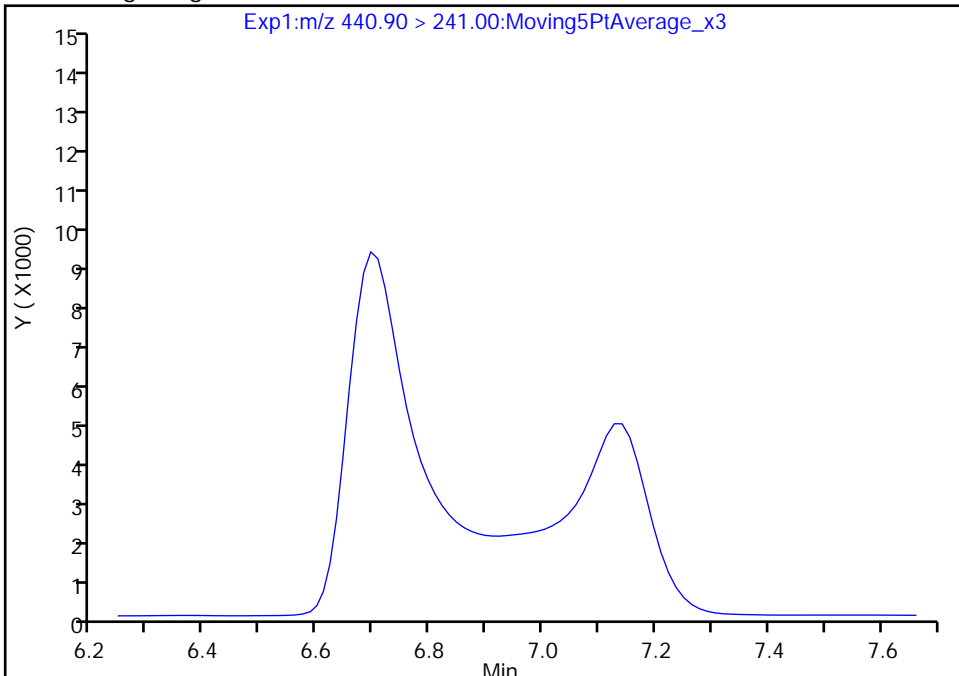
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

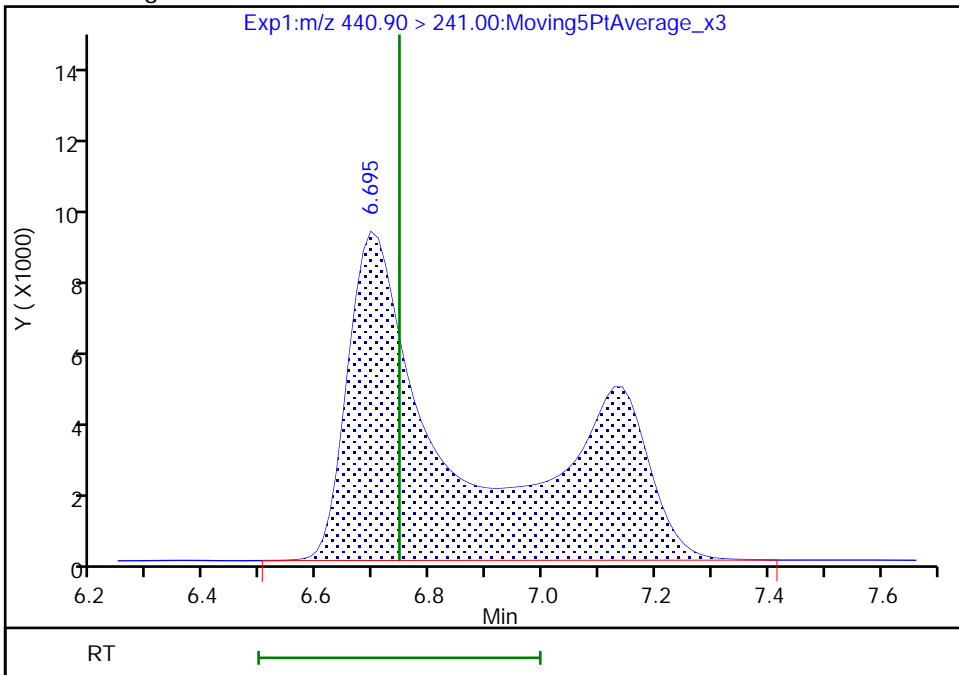
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.69  
Area: 136730  
Amount: 0.053544  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:38:20  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

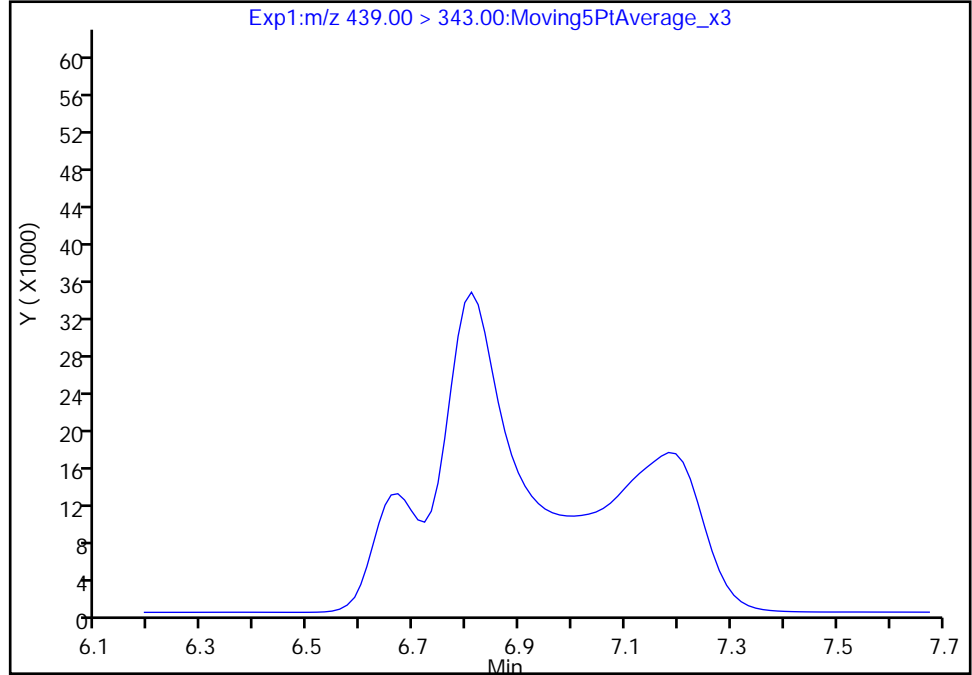
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

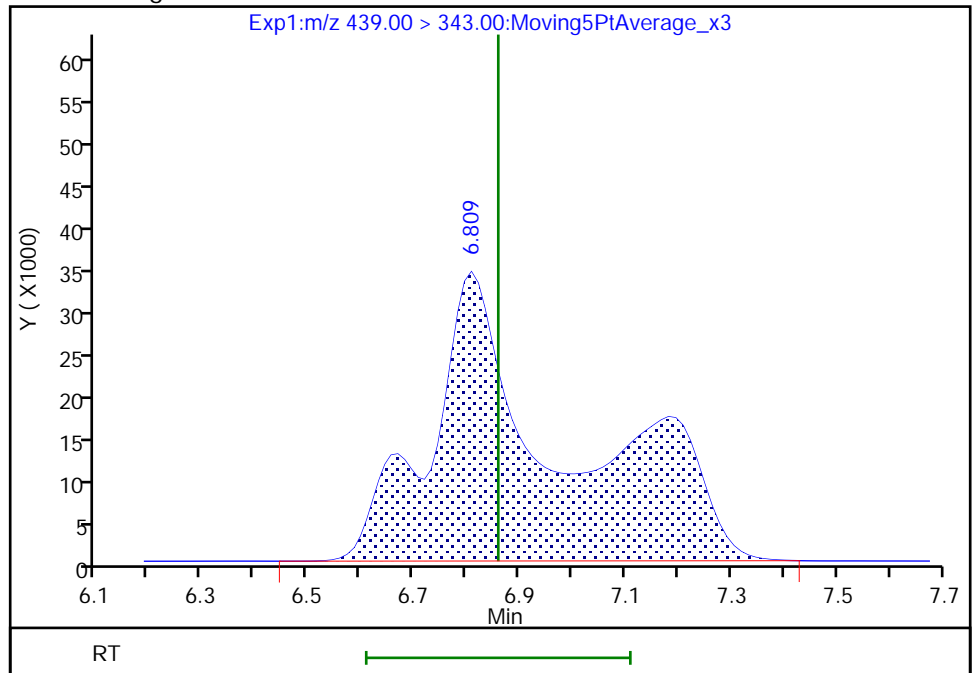
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.81  
Area: 618080  
Amount: 0.054289  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

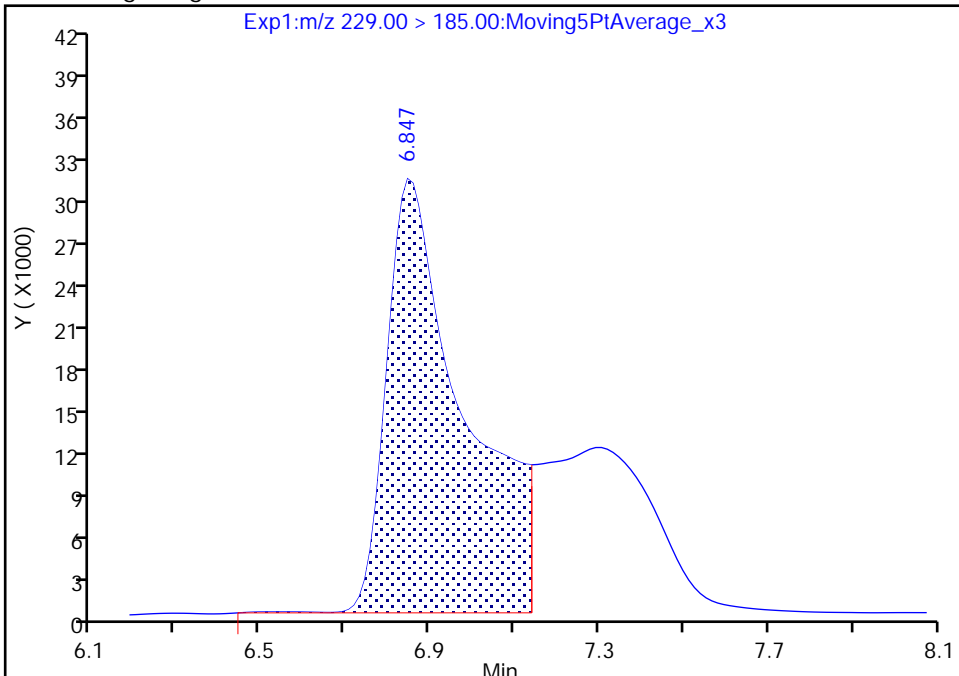
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

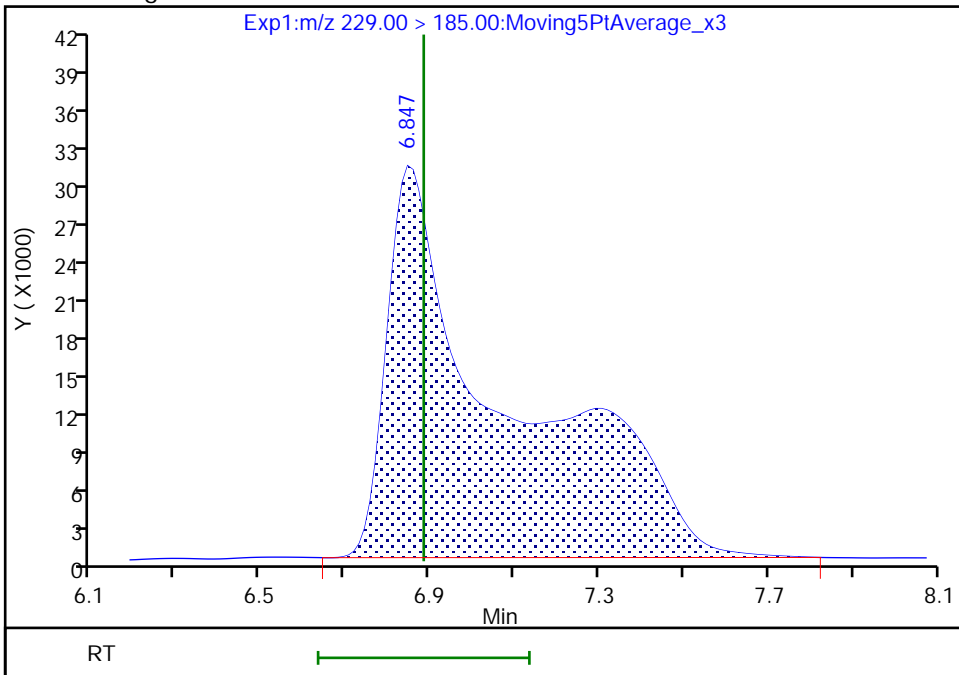
RT: 6.85  
Area: 388129  
Amount: 0.037559  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 599690  
Amount: 0.052195  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

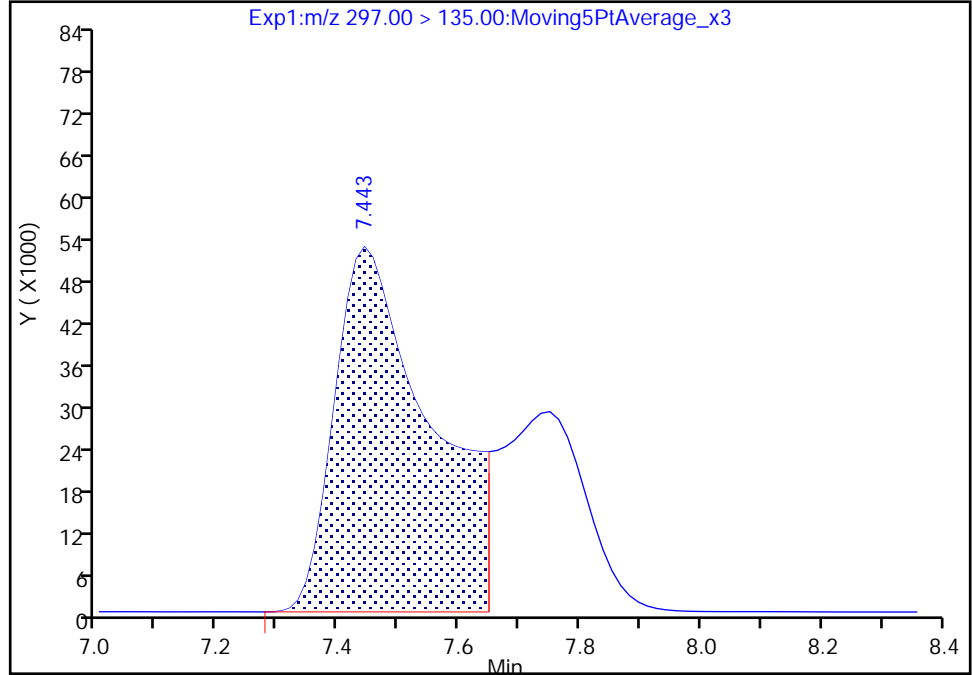
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

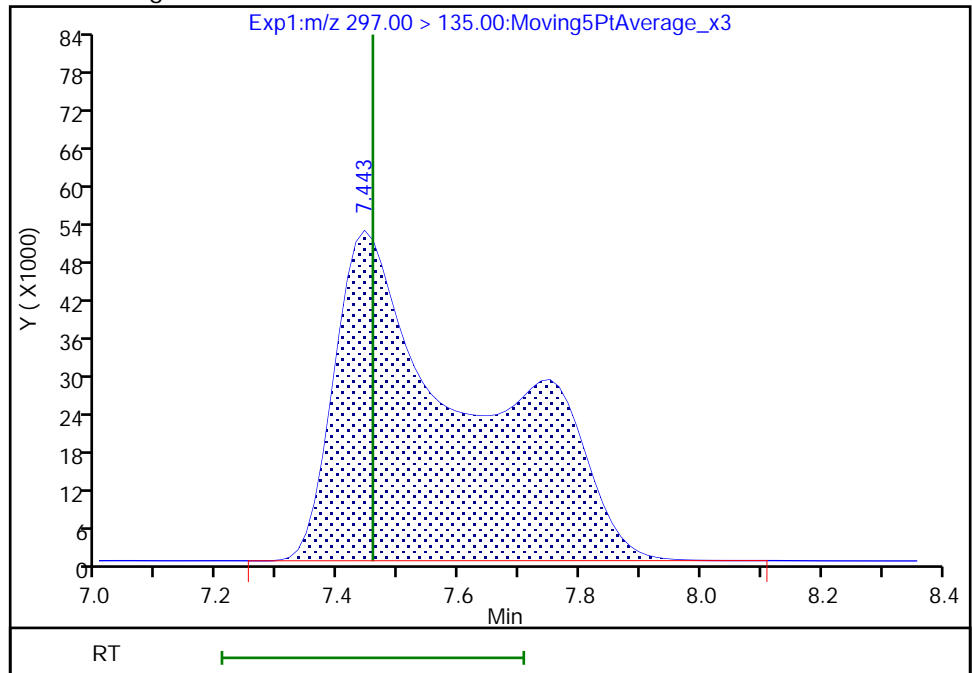
RT: 7.44  
Area: 570090  
Amount: 0.046498  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 848428  
Amount: 0.052998  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

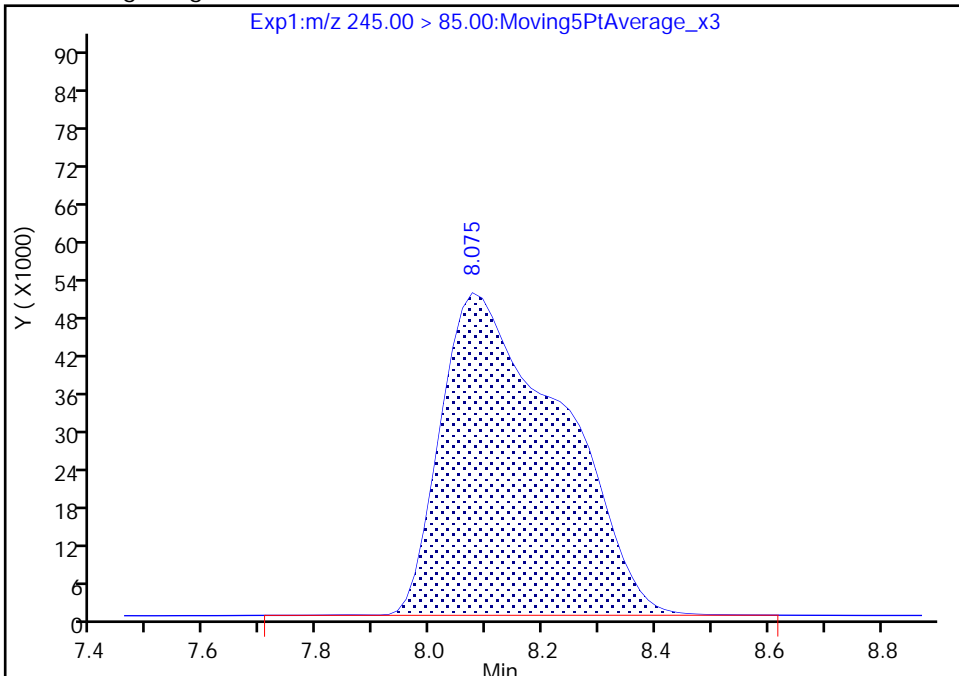
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

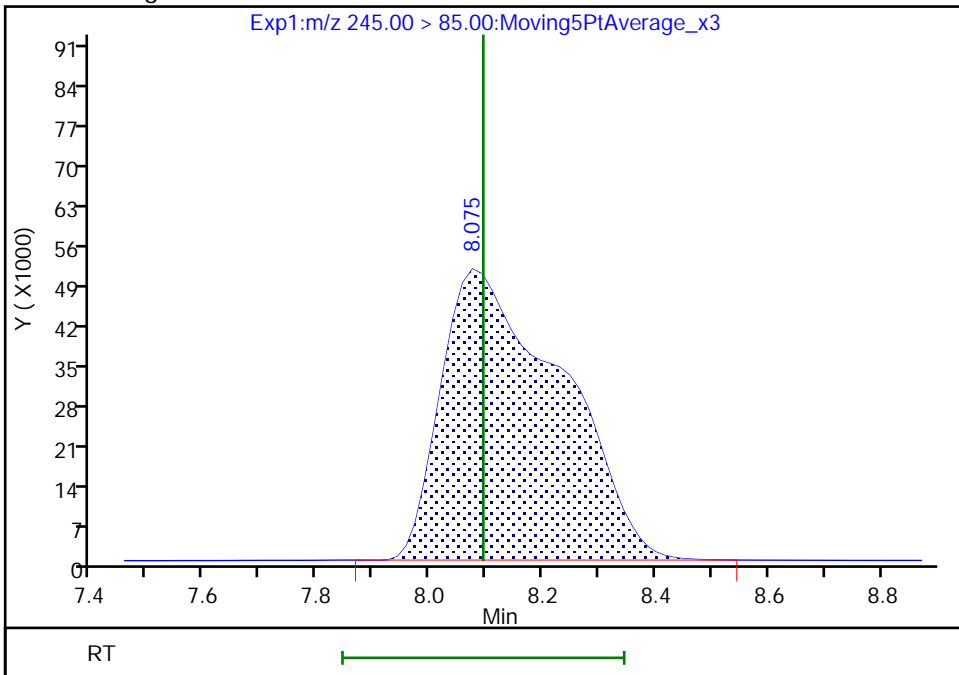
RT: 8.08  
Area: 762017  
Amount: 0.054963  
Amount Units: ng/ml

Processing Integration Results



RT: 8.08  
Area: 760425  
Amount: 0.052109  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:49  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 15-Dec-2020 21:57:28 ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (308  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:59 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:39:58

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.785	2.785	0.0		1170891	0.0948		94.8	2395	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		513487	0.1022		102	6195	M
3 R-PSDA										M
440.90 > 241.00	6.746	6.746	0.0		263743	0.1033		103	6410	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.860	6.860	0.0		1200781	0.1055		105	23761	M
5 PMPA										M
229.00 > 185.00	6.885	6.885	0.0		1137198	0.0990		99.0	1069	M
6 NVHOS										M
297.00 > 135.00	7.457	7.457	0.0		1642310	0.1026		103	14972	M
7 PFO2HxA										
245.00 > 85.00	8.094	8.094	0.0		1421707	0.0974		97.4	9211	
8 PEPA										
278.90 > 234.90	8.739	8.739	0.0		959926	0.1011		101	3519	
9 PES										
314.90 > 135.00	9.044	9.044	0.0		8864472	0.1010		101	159402	
10 PFECA B										
295.00 > 201.00	9.279	9.279	0.0		1093548	0.1025		102	38126	
11 PFO3OA										
310.90 > 85.00	9.516	9.516	0.0		1179078	0.0968		96.8	15186	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.599	9.599	0.0		1191322	0.2417		96.7	34385	
13 HPFO-DA										
285.00 > 169.00	9.627	9.627	0.0	1.003	553958	0.1022		102	16039	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.957	9.957	0.0		11028616	0.1031		103	196309	
16 Hydro-EVE Acid										
427.00 > 282.90	10.013	10.013	0.0		5897426	0.1028		103	76859	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.013	10.013	0.0	1.000	2189522	0.0965	Target=0.00	96.5	33011	
363.00 > 169.00	10.013	10.013	0.0	1.000	1417664		1.54(0.00-0.00)	96.5	32112	
D 15 13C4 PFHpA										
367.00 > 322.00	10.013	10.013	0.0		5640245	0.2481		99.3	170426	
17 Hydro-PS Acid										
463.00 > 262.90	10.042	10.042	0.0		3691742	0.1034		103	68617	
19 PFECA G										
378.90 > 184.90	10.145	10.145	0.0		2457517	0.0972		97.2	78959	
20 PFO4DA										
376.90 > 85.00	10.269	10.269	0.0		1307902	0.0971		97.1	11593	
21 PS Acid										
443.00 > 146.90	10.344	10.344	0.0		1557836	0.0943		94.3	38387	
22 EVE Acid										
407.00 > 262.90	10.344	10.344	0.0		5433377	0.0989		98.9	106732	
23 TAF										
442.90 > 85.00	10.847	10.847	0.0		349151	0.0974		97.4	967	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

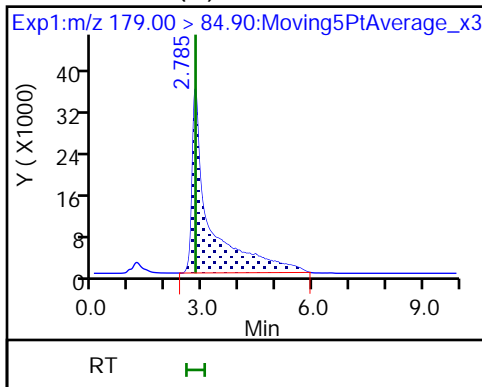
**Reagents:**

LCTB3\_LLSTD7\_00308

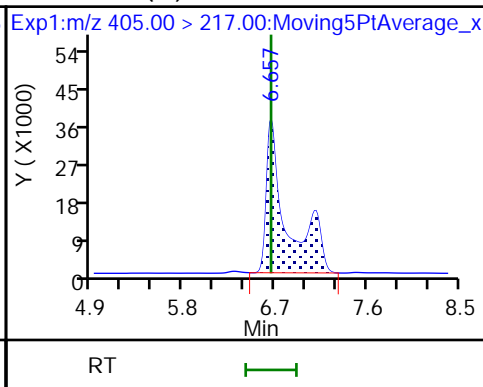
Amount Added: 1.00

Units: mL

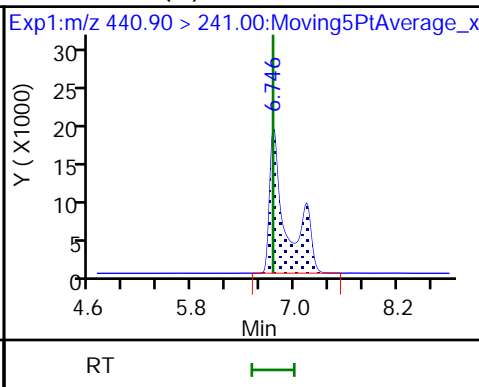
1 PFMOAA (M)



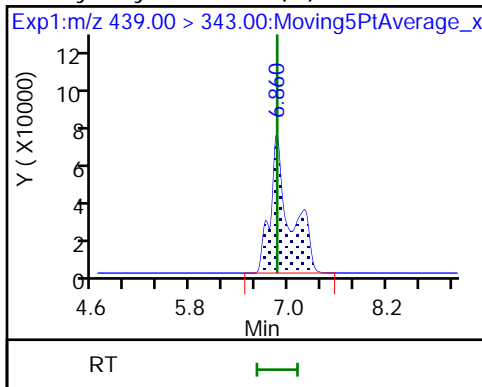
2 R-EVE (M)



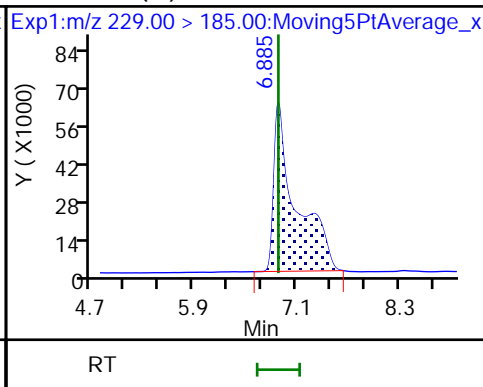
3 R-PSDA (M)



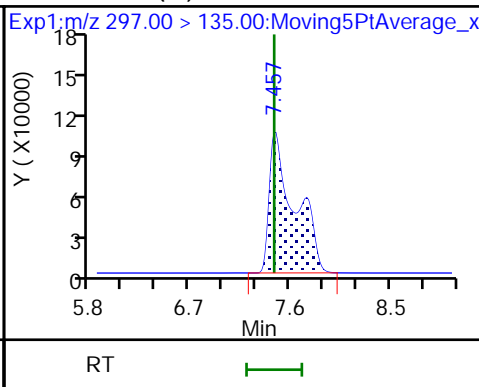
4 Hydrolyzed PSDA (M)



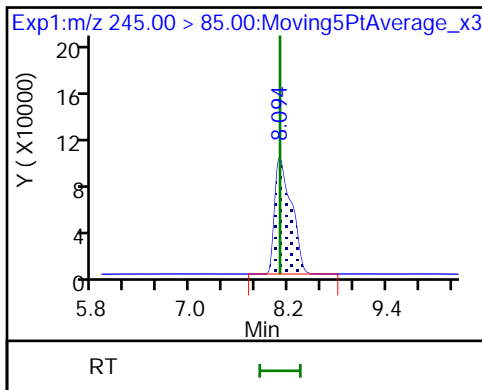
5 PMPA (M)



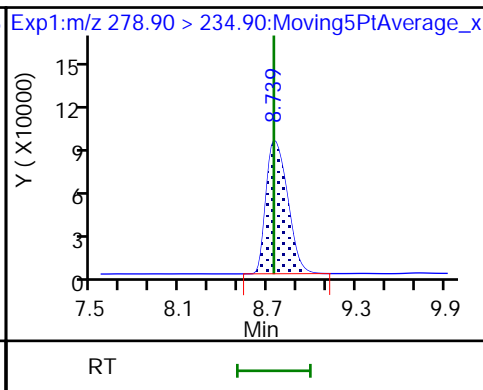
6 NVHOS (M)



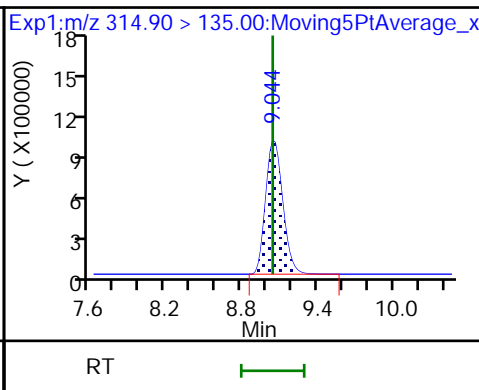
7 PFO2HxA



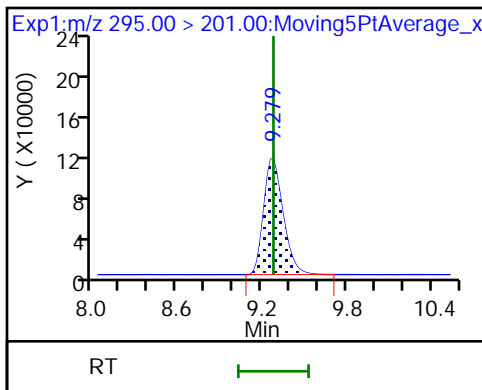
8 PEPA



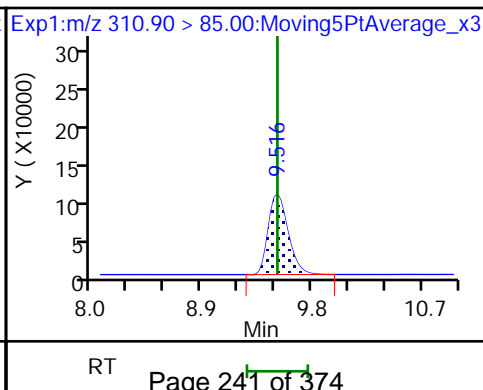
9 PES



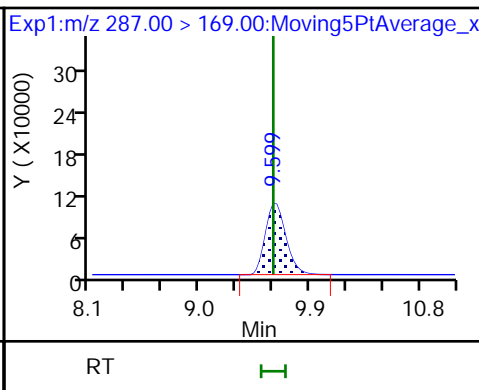
10 PFECA B

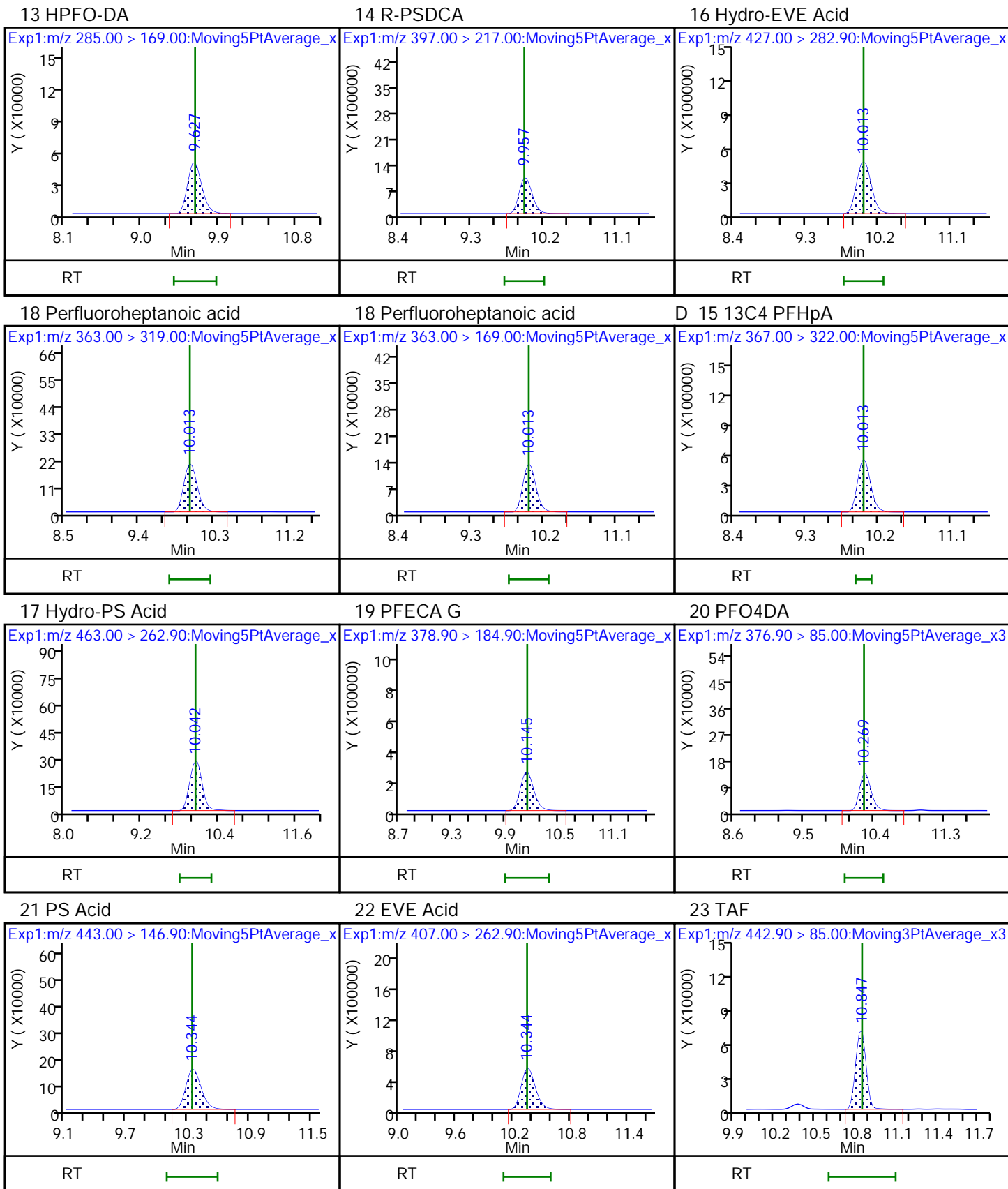


11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

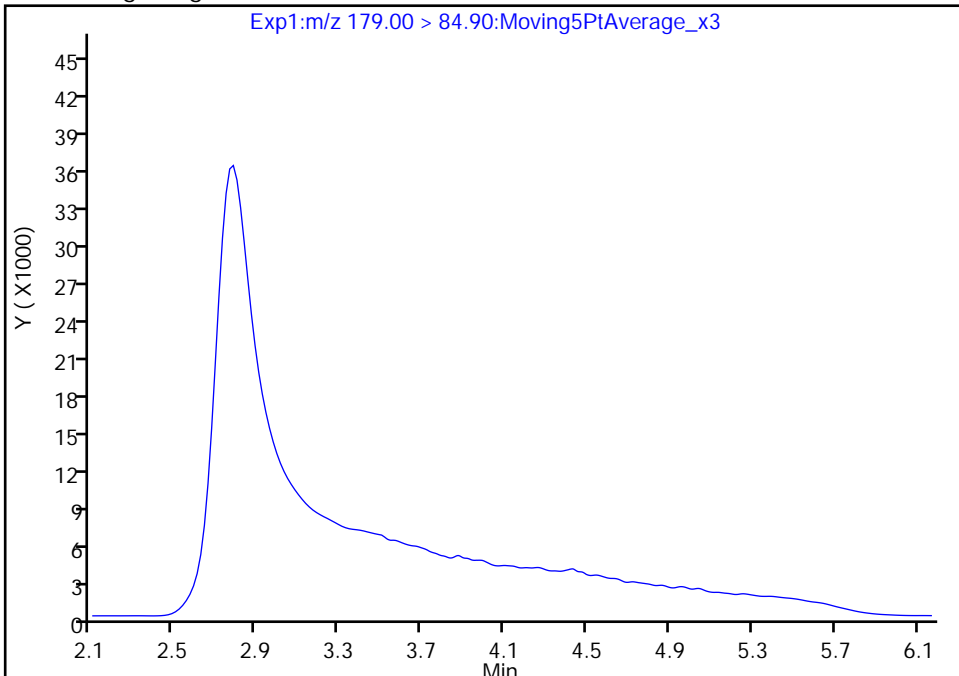
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

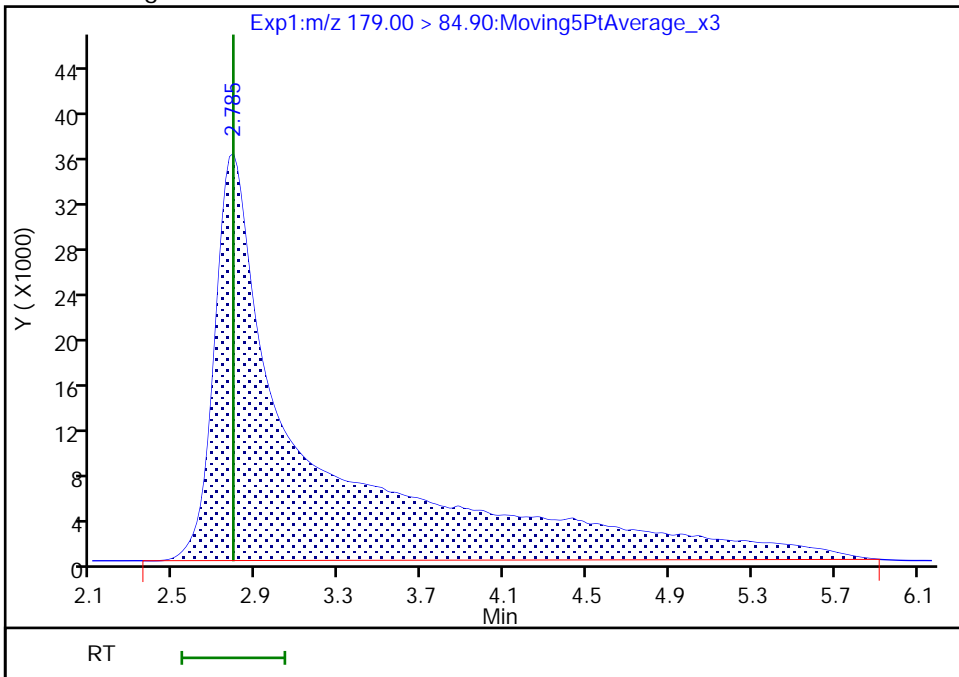
Not Detected  
Expected RT: 2.79

Processing Integration Results



RT: 2.79  
Area: 1170891  
Amount: 0.094759  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:39:14  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

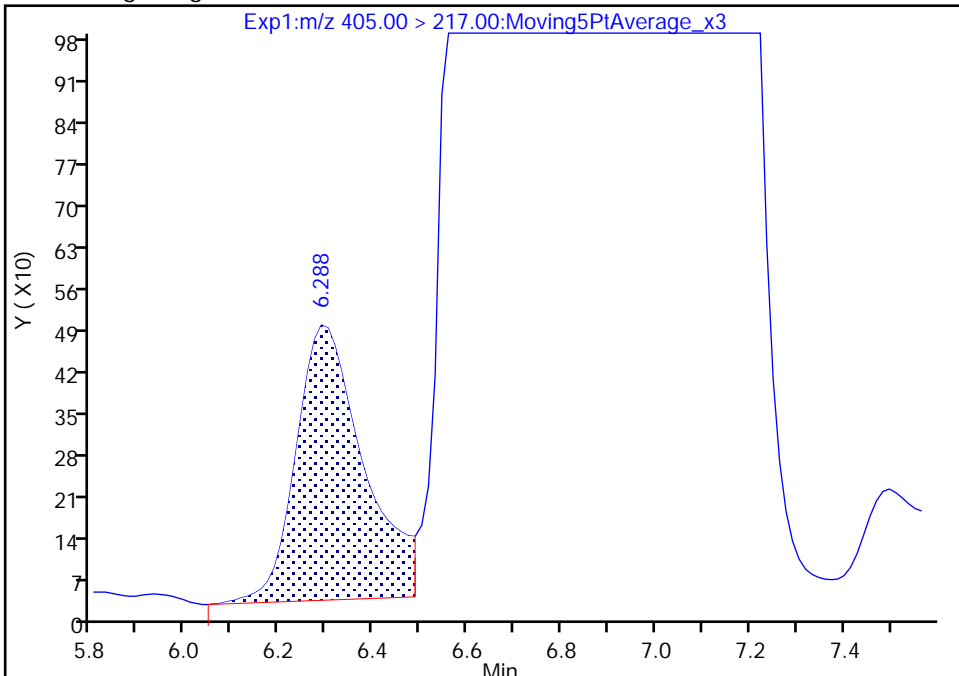
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

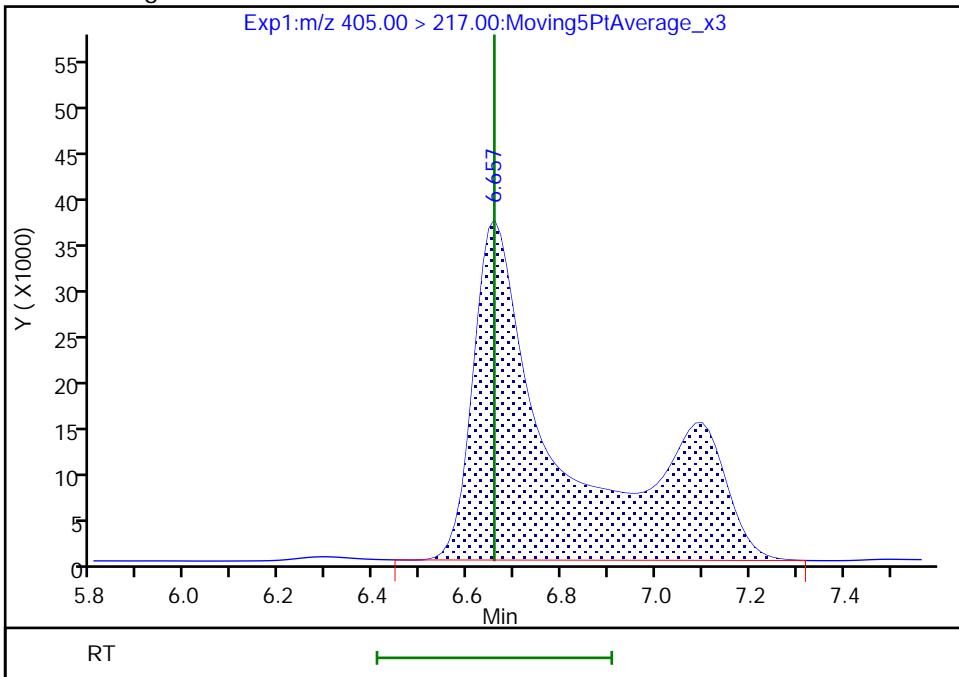
RT: 6.29  
Area: 4633  
Amount: 0.001534  
Amount Units: ng/ml

Processing Integration Results



RT: 6.66  
Area: 513487  
Amount: 0.102188  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

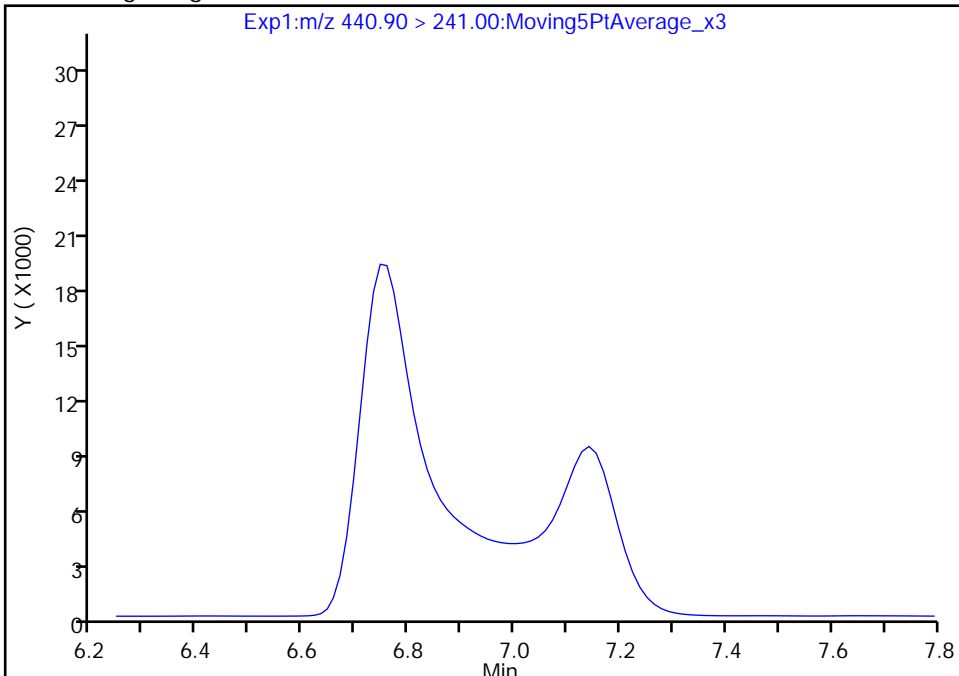
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

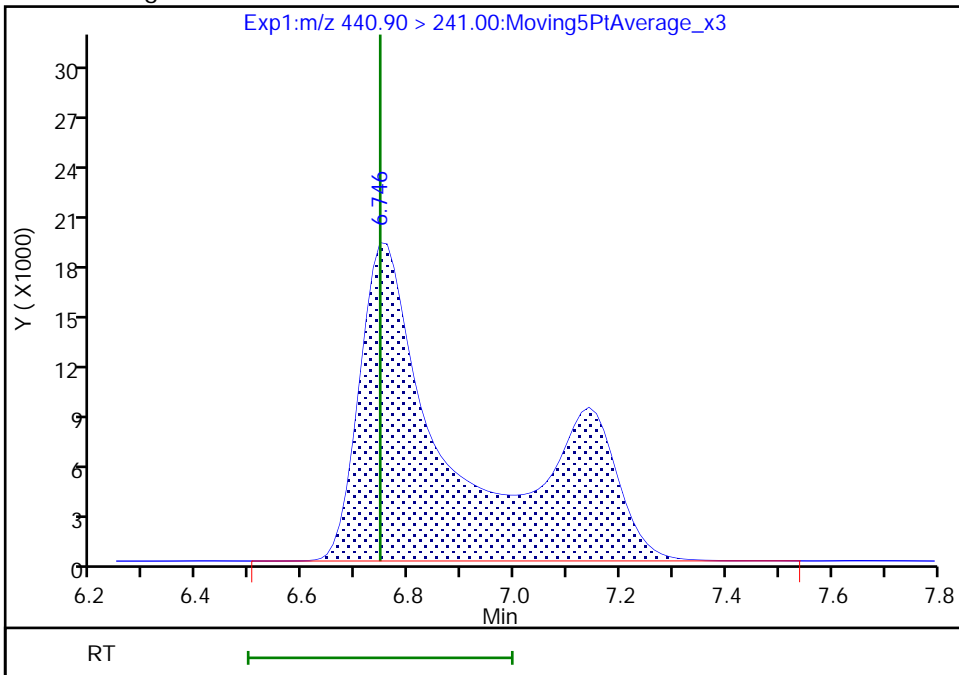
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.75  
Area: 263743  
Amount: 0.103283  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:39:18  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

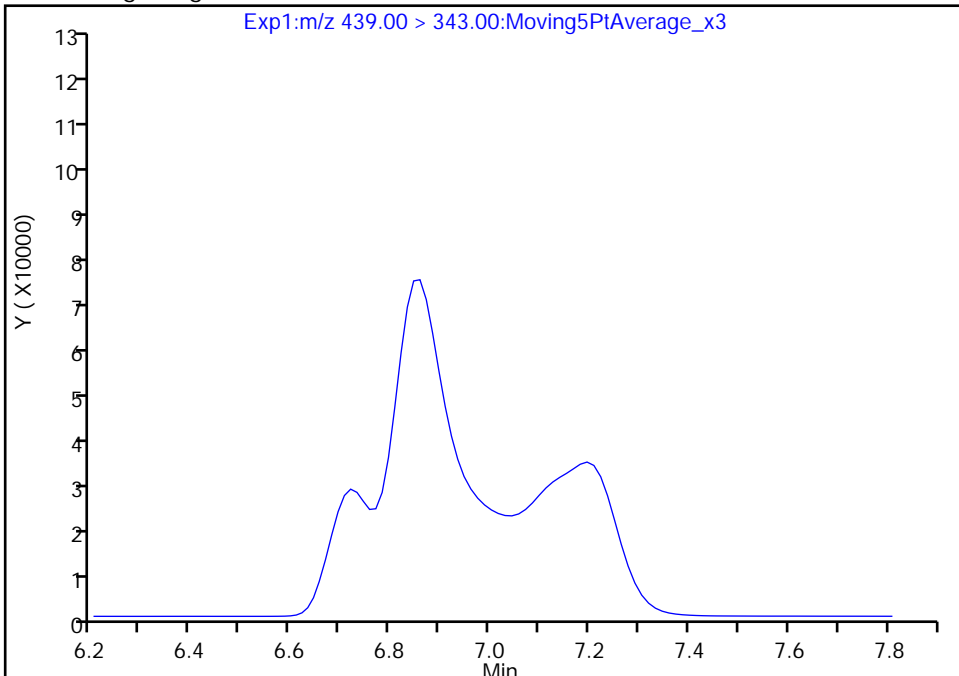
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

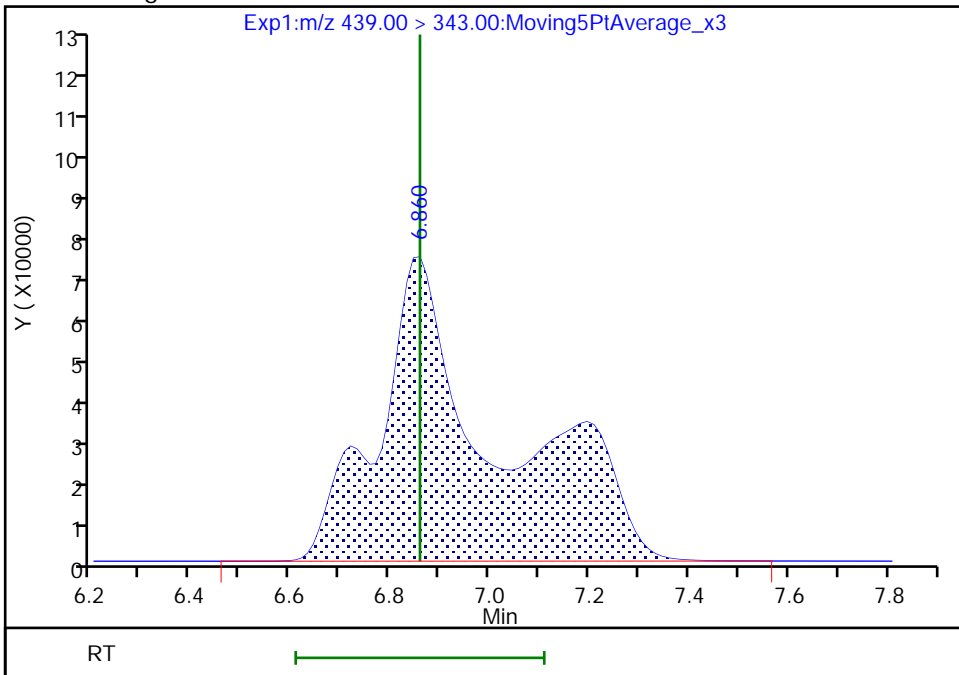
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 1200781  
Amount: 0.105471  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

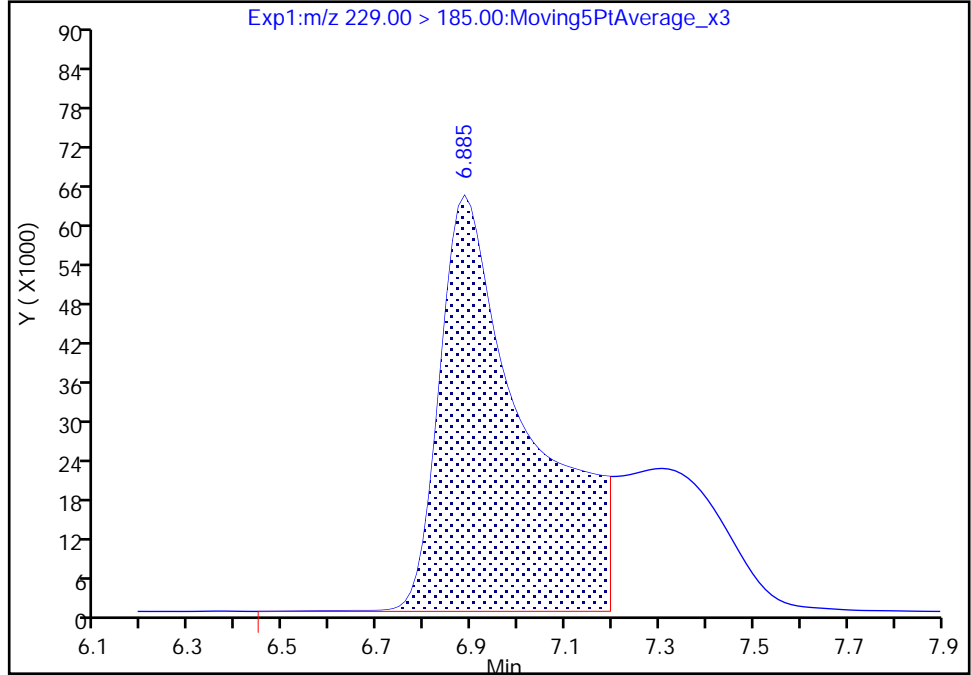
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

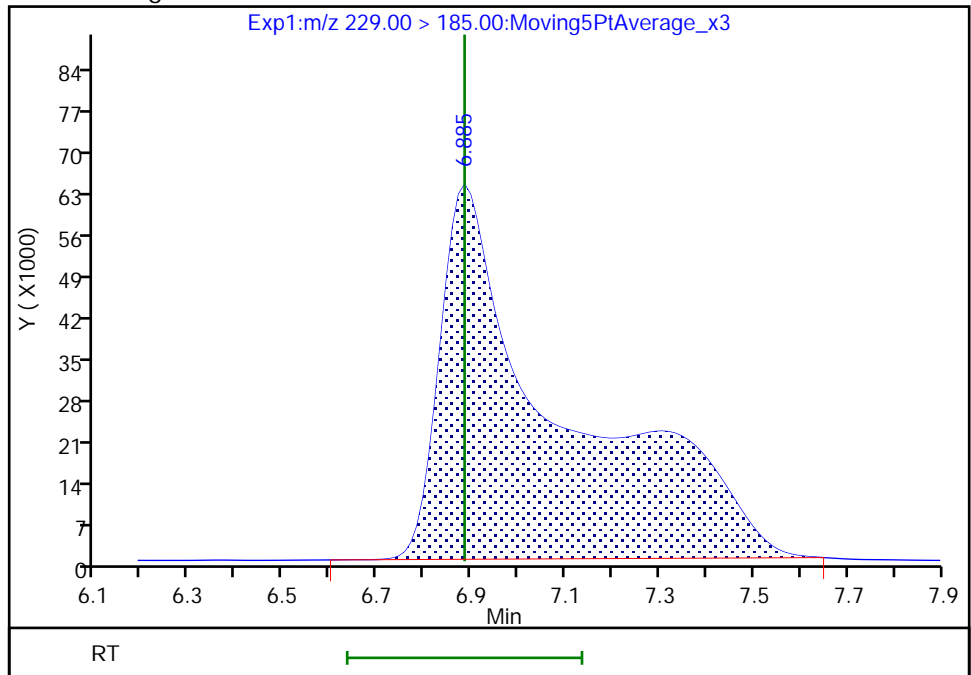
RT: 6.88  
Area: 815510  
Amount: 0.075813  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 1137198  
Amount: 0.098977  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

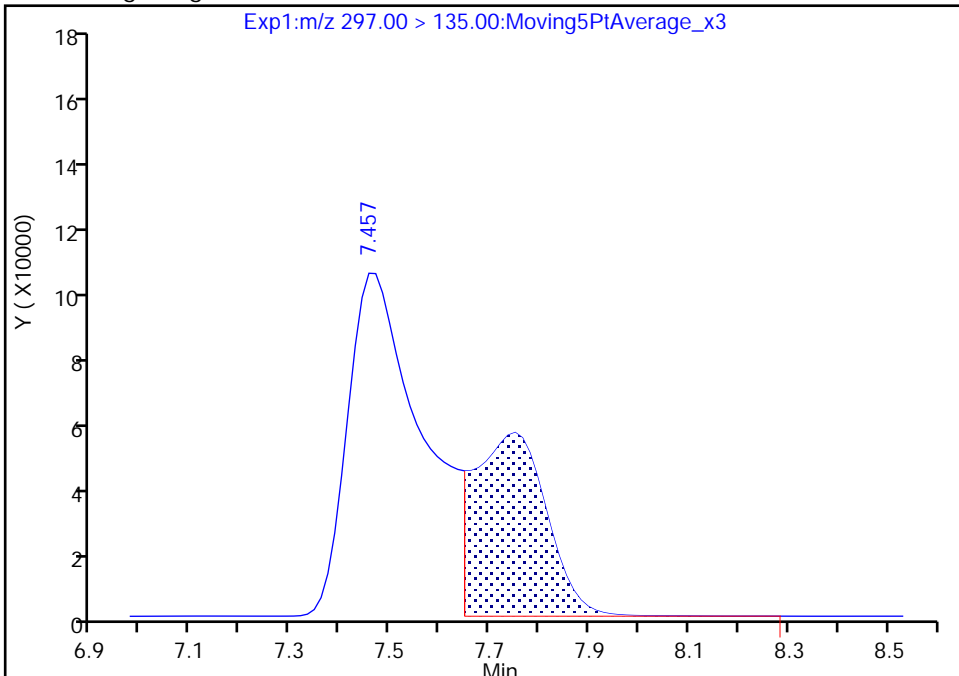
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

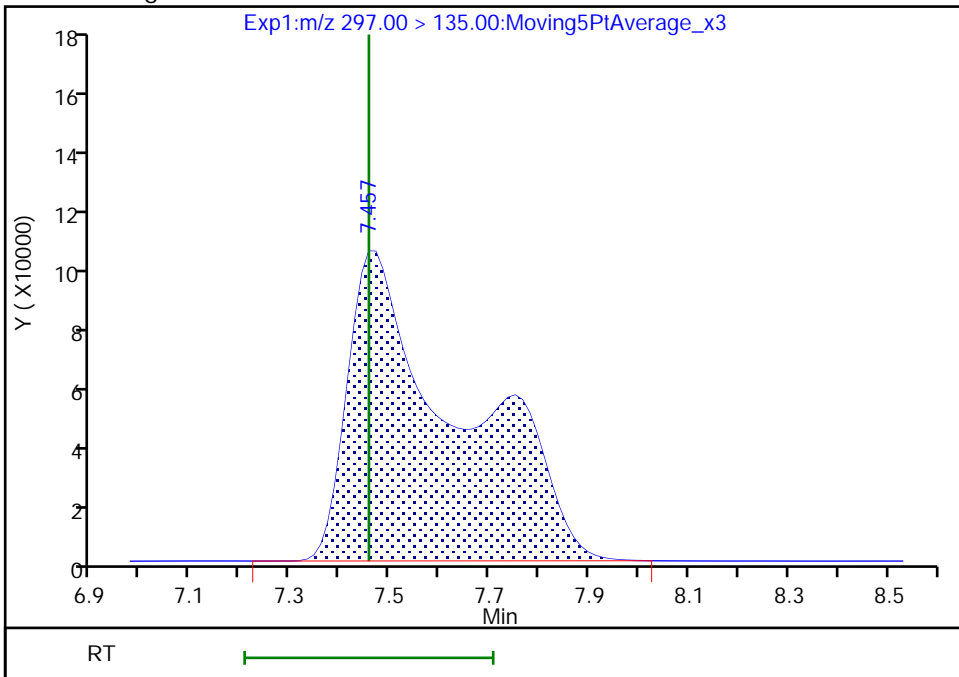
RT: 7.46  
Area: 556176  
Amount: 0.043393  
Amount Units: ng/ml

Processing Integration Results



RT: 7.46  
Area: 1642310  
Amount: 0.102589  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 09:39:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 249 of 374

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 15-Dec-2020 22:15:04 ALS Bottle#: 11 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (40  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:06:26 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:40:38

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.855	2.785	0.070		2962580	0.2398		95.9	8246	M
2 R-EVE										M
405.00 > 217.00	6.695	6.657	0.038		1284679	0.2557		102	12666	M
3 R-PSDA										M
440.90 > 241.00	6.784	6.746	0.038		660243	0.2586		103	17603	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.885	6.860	0.025		2943913	0.2586		103	49293	M
5 PMPA										
229.00 > 185.00	6.911	6.885	0.026		2850703	0.2481		99.2	2504	
6 NVHOS										
297.00 > 135.00	7.471	7.457	0.014		4082981	0.2550		102	38366	
7 PFO2HxA										
245.00 > 85.00	8.100	8.094	0.006		3695857	0.2533		101	22550	
8 PEPA										
278.90 > 234.90	8.750	8.739	0.011		2292512	0.2413		96.5	10743	
9 PES										
314.90 > 135.00	9.040	9.044	-0.004		20672409	0.2355		94.2	321098	
10 PFECA B										
295.00 > 201.00	9.273	9.279	-0.006		2692978	0.2524		101	94658	
11 PFO3OA										
310.90 > 85.00	9.511	9.516	-0.005		3167388	0.2600		104	40956	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.621	9.599	0.022		1220443	0.2476		99.0	35696	
13 HPFO-DA										
285.00 > 169.00	9.621	9.627	-0.005	1.000	1418910	0.2556		102	41694	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.980	9.957	0.023		21811684	0.2038		81.5	217829	
16 Hydro-EVE Acid										
427.00 > 282.90	10.036	10.013	0.023		13741477	0.2396		95.8	133444	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.036	10.013	0.023	1.000	5592019	0.2464	Target=0.00	98.6	84309	
363.00 > 169.00	10.036	10.013	0.023	1.000	3307735		1.69(0.00-0.00)	98.6	74438	
D 15 13C4 PFHpA										
367.00 > 322.00	10.036	10.013	0.023		5662276	0.2491		99.6	170073	
17 Hydro-PS Acid										
463.00 > 262.90	10.062	10.042	0.020		9399925	0.2632		105	171539	
19 PFECA G										
378.90 > 184.90	10.140	10.145	-0.005		5510979	0.2180		87.2	170836	
20 PFO4DA										
376.90 > 85.00	10.298	10.269	0.029		3086735	0.2292		91.7	24536	
21 PS Acid										
443.00 > 146.90	10.373	10.344	0.029		4187794	0.2534		101	80707	
22 EVE Acid										
407.00 > 262.90	10.373	10.344	0.029		11910026	0.2169		86.8	162527	
23 TAF										
442.90 > 85.00	10.857	10.847	0.010		835930	0.2333		93.3	1601	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00040

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d

Injection Date: 15-Dec-2020 22:15:04

Instrument ID: A7\_N

Lims ID: IC STD 8

Client ID:

Operator ID: abservice

ALS Bottle#: 11

Worklist Smp#: 9

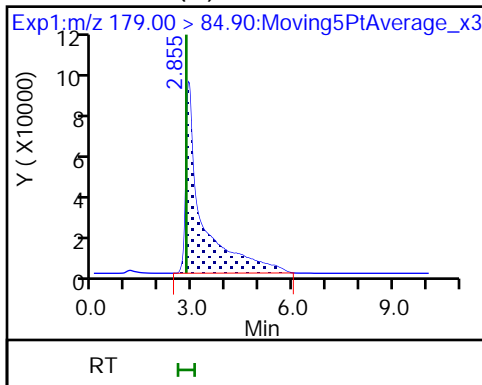
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

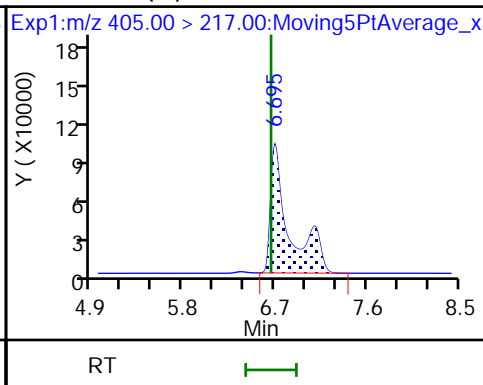
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

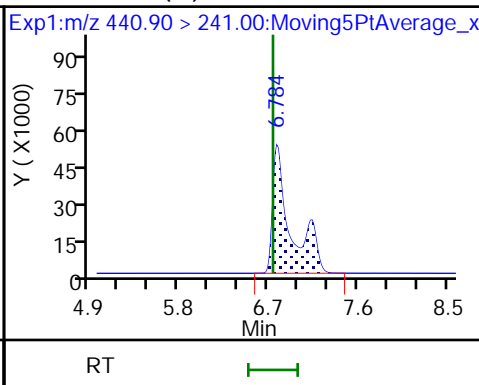
1 PFMOAA (M)



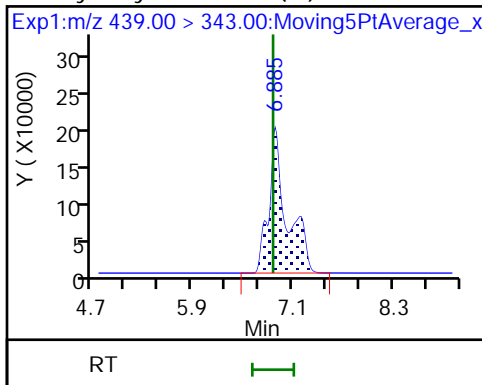
2 R-EVE (M)



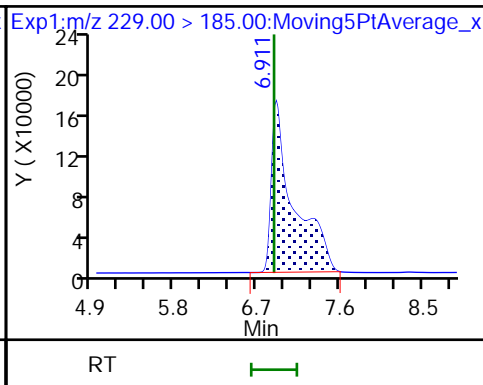
3 R-PSDA (M)



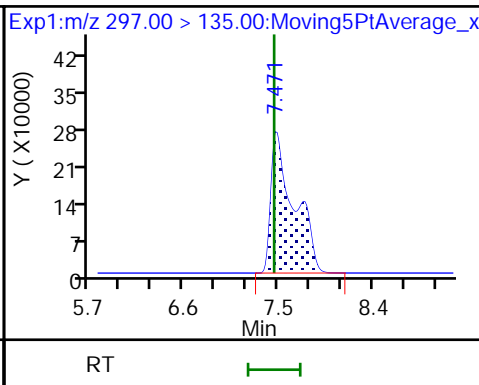
4 Hydrolyzed PSDA (M)



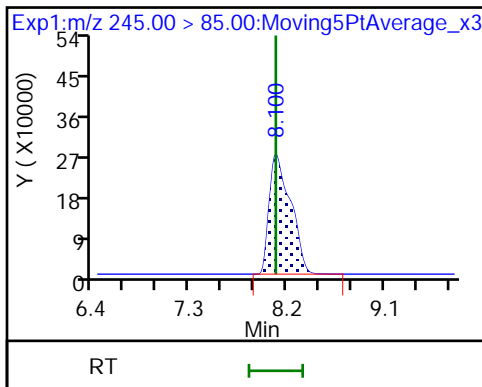
5 PMPA



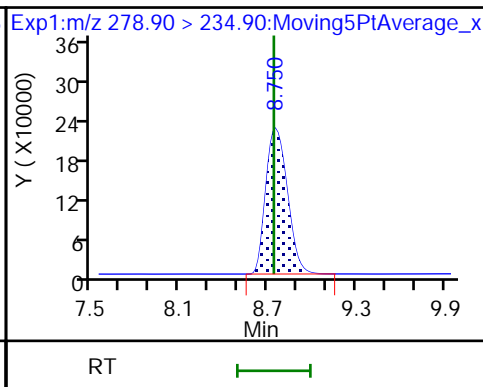
6 NVHOS



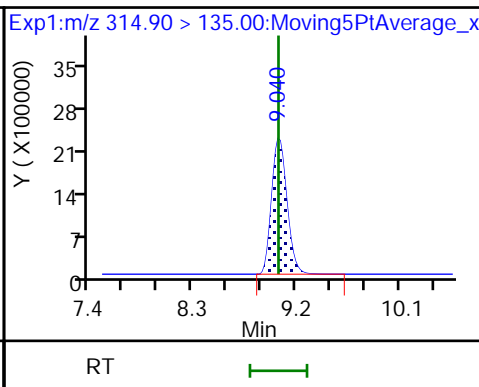
7 PFO2HxA



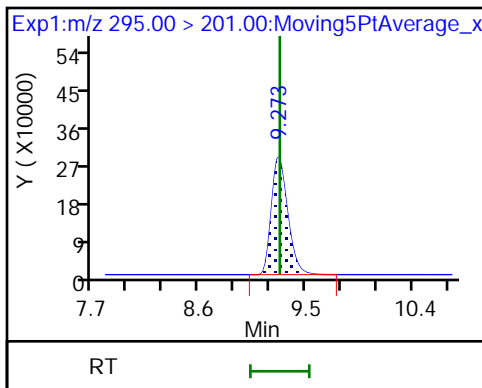
8 PEPA



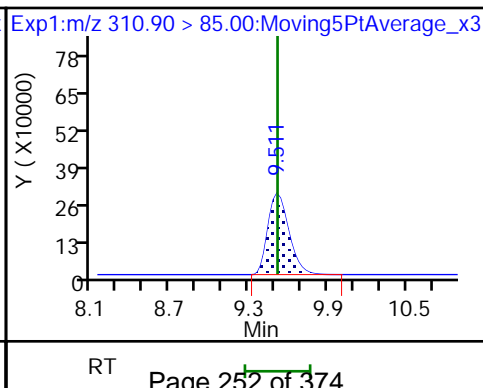
9 PES



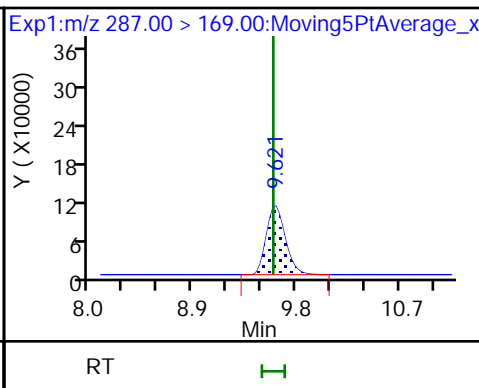
10 PFECA B

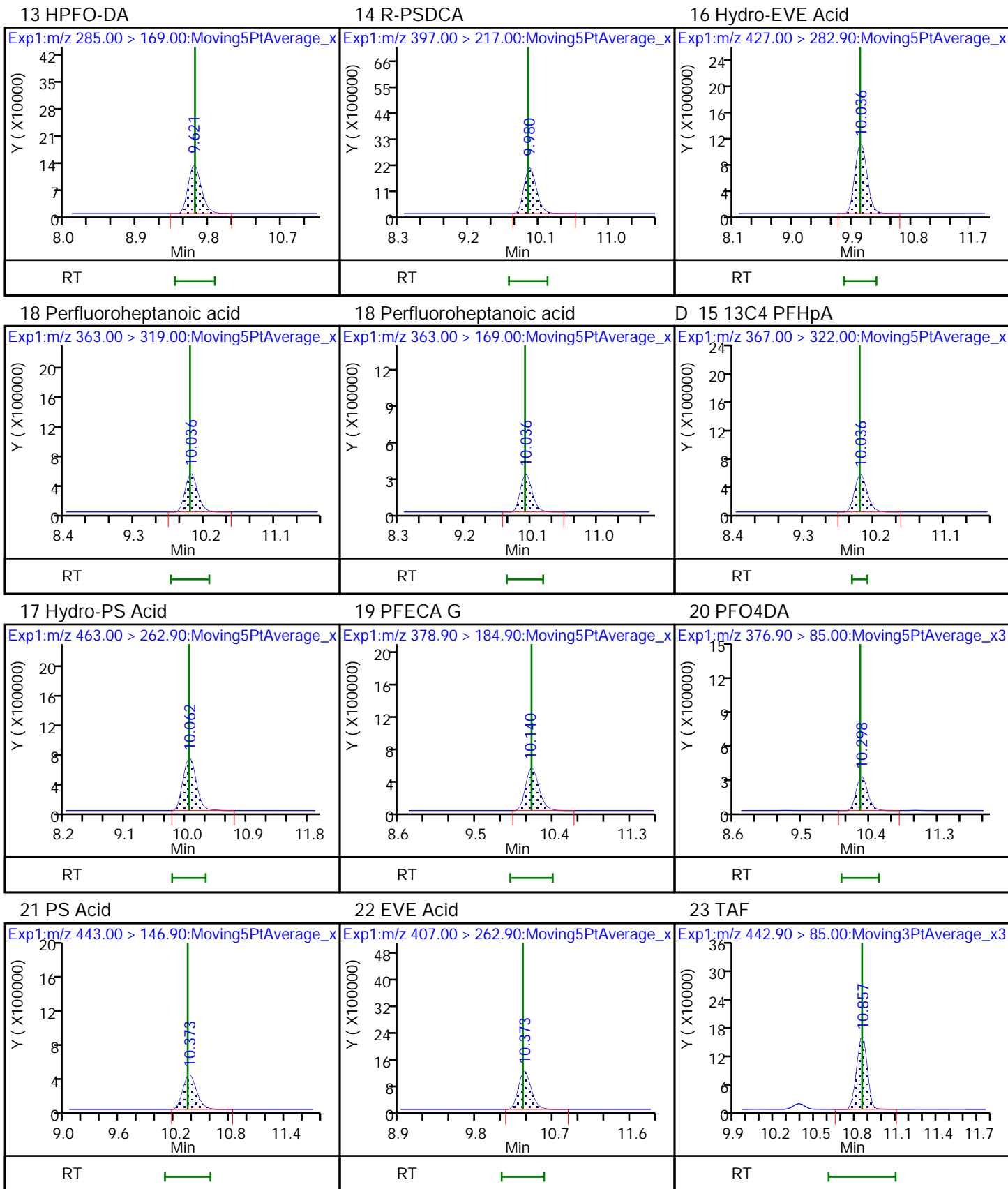


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

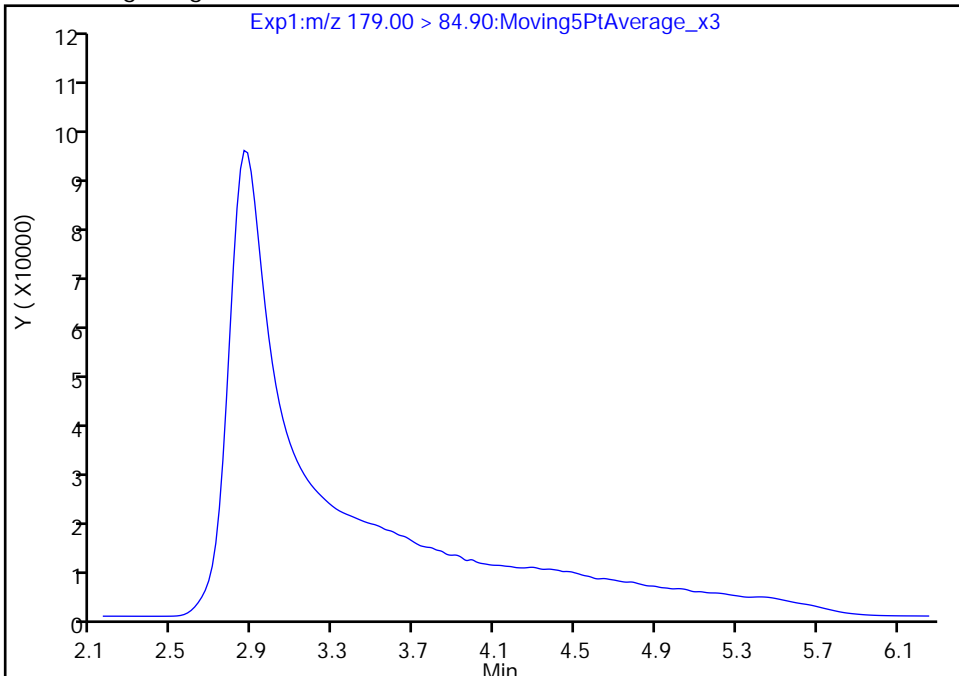
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

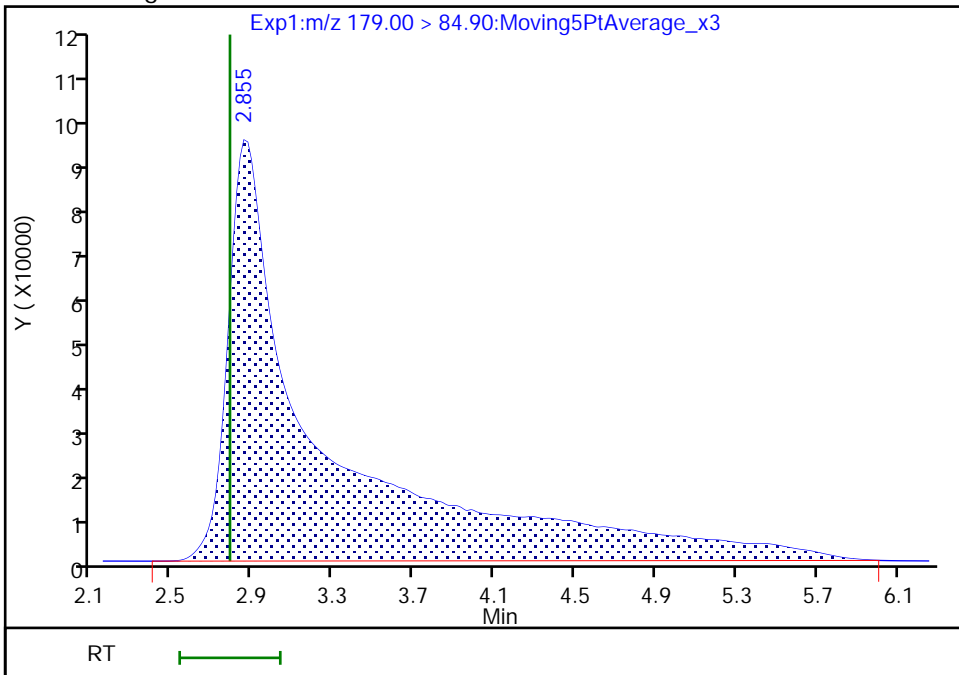
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.86  
Area: 2962580  
Amount: 0.239758  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

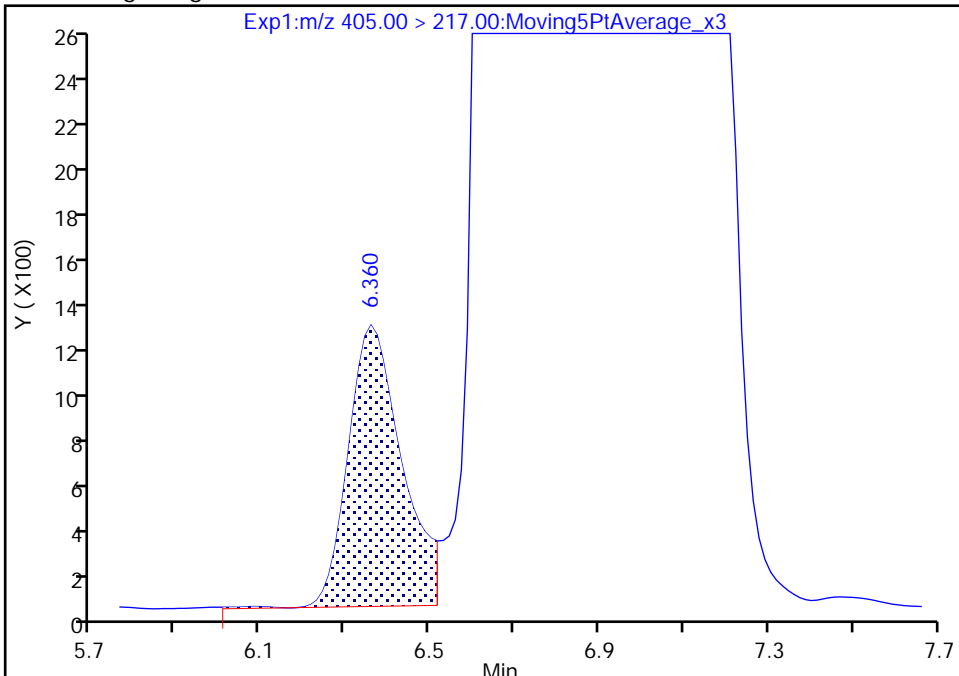
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

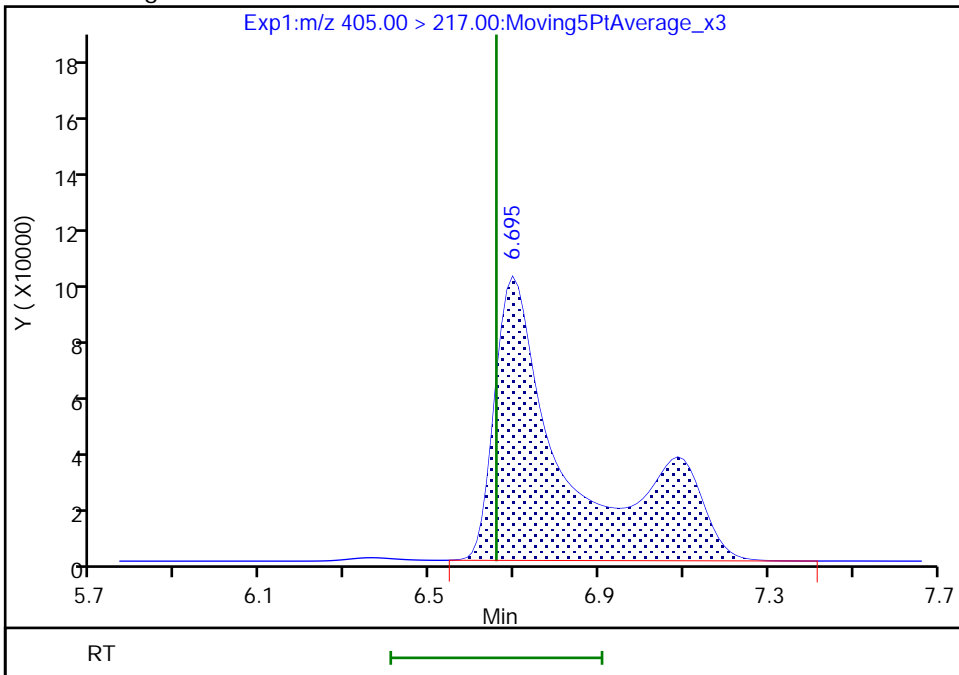
RT: 6.36  
Area: 10773  
Amount: 0.003045  
Amount Units: ng/ml

Processing Integration Results



RT: 6.70  
Area: 1284679  
Amount: 0.255661  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:45:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

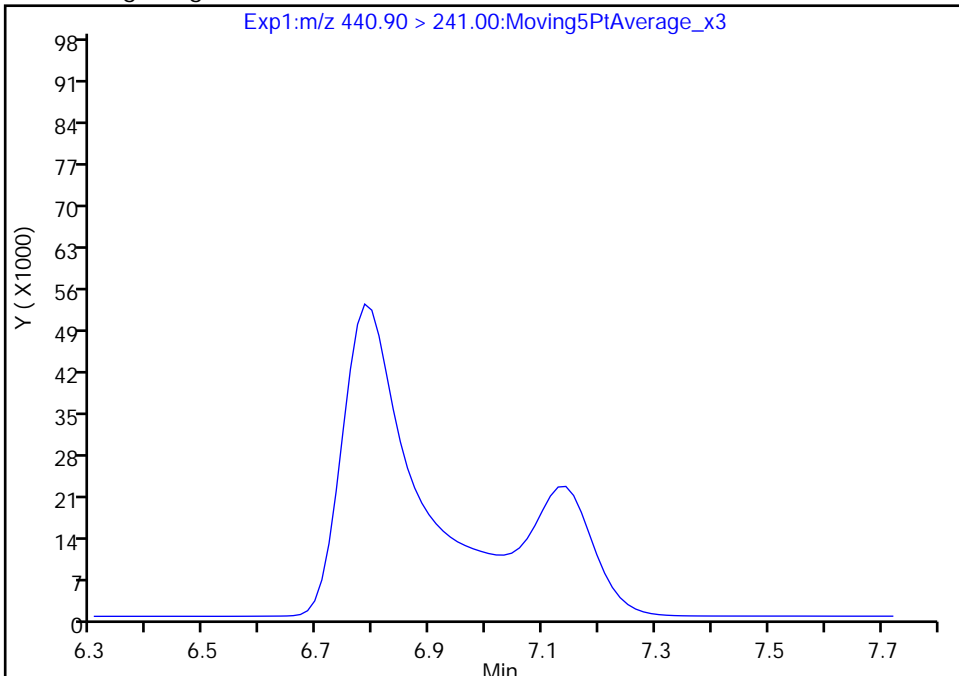
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

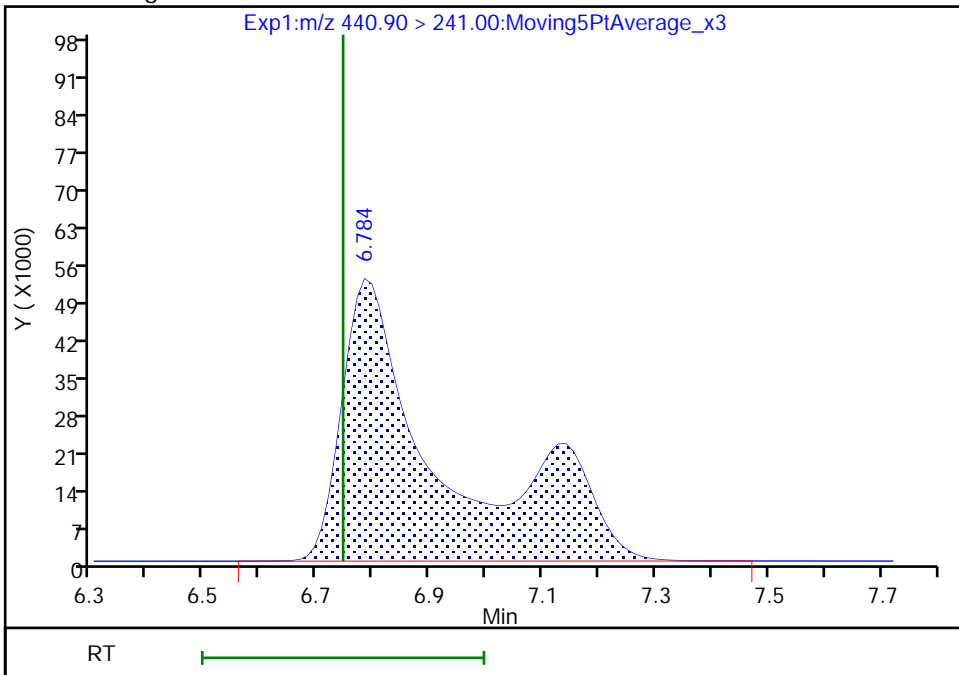
Not Detected  
Expected RT: 6.75

Processing Integration Results



RT: 6.78  
Area: 660243  
Amount: 0.258554  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:40:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

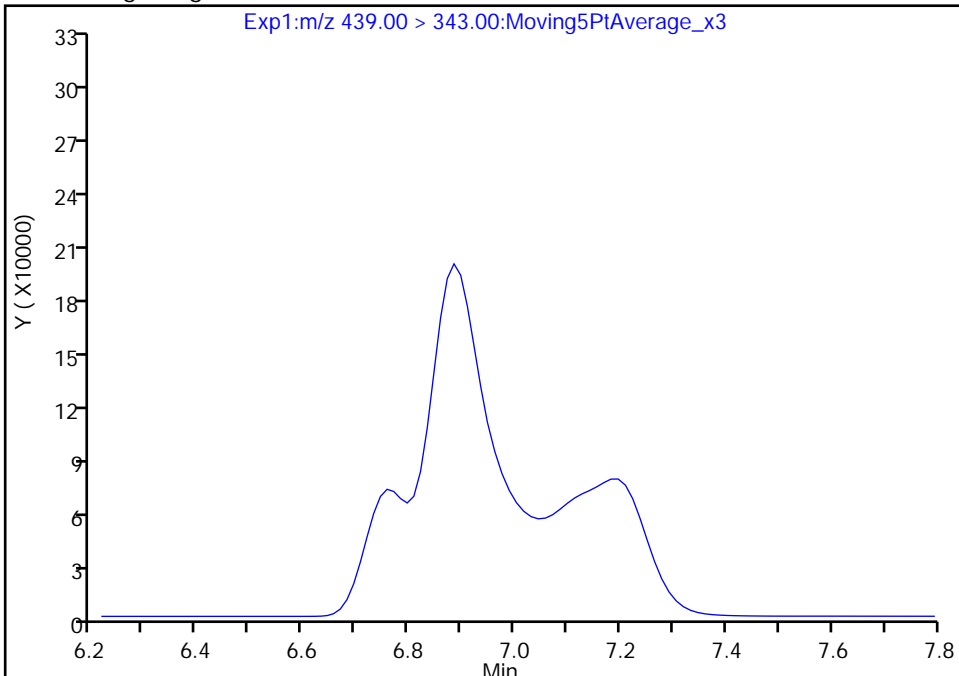
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Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

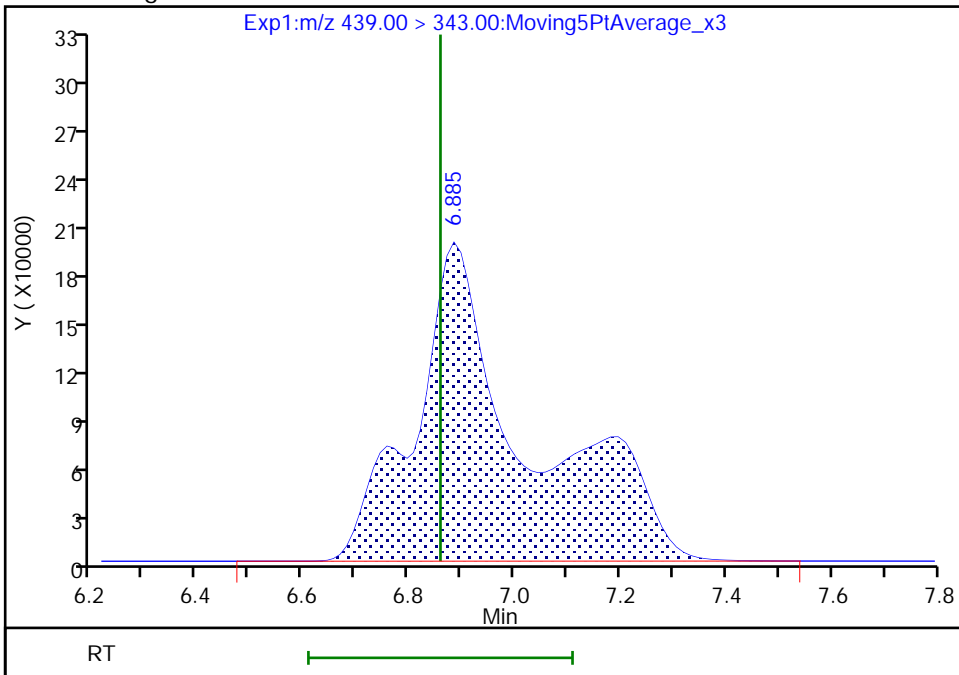
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.89  
Area: 2943913  
Amount: 0.258580  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:40:17  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 0  
 Inject. Date: 15-Dec-2020 22:50:16 ALS Bottle#: 13 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (38  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:06:26 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:41:25  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.680	2.785	-0.105		2897339	0.2345			7880	M
2 R-EVE										EM
405.00 > 217.00	6.599	6.657	-0.058		1290669	0.2569			12482	EM
3 R-PSDA										M
440.90 > 241.00	6.695	6.746	-0.051		660910	0.2588			15324	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.809	6.860	-0.051		2800615	0.2460			36945	M
5 PMPA										M
229.00 > 185.00	6.847	6.885	-0.038		2861316	0.2490			2440	M
6 NVHOS										M
297.00 > 135.00	7.443	7.457	-0.014		3970862	0.2480			34194	M
7 PFO2HxA										
245.00 > 85.00	8.075	8.094	-0.019		3637328	0.2493			20531	
8 PEPA										
278.90 > 234.90	8.758	8.739	0.019		2382221	0.2508			9893	
9 PES										
314.90 > 135.00	9.067	9.044	0.023		20671132	0.2354			272649	
10 PFECA B										
295.00 > 201.00	9.282	9.279	0.003		2819121	0.2642			73163	
11 PFO3OA										
310.90 > 85.00	9.521	9.516	0.005		2988166	0.2452			37727	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.631	9.599	0.032		1224539	0.2484		99.4	35875	
13 HPFO-DA										
285.00 > 169.00	9.631	9.627	0.005	1.000	1415297	0.2541			41533	
14 R-PSDCA										
397.00 > 217.00	9.990	9.957	0.033		8133263	0.1994			238963	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid	427.00 > 282.90	10.047	10.013	0.034		13032067	0.2272			126426
18 Perfluoroheptanoic acid	363.00 > 319.00	10.047	10.013	0.034	1.000	5260238	0.2475	Target=0.00		78883
	363.00 > 169.00	10.047	10.013	0.034	1.000	3170205	1.66(0.00-0.00)			71198
D 15 13C4 PFHpA	367.00 > 322.00	10.047	10.013	0.034		5303619	0.2333	93.3		158758
17 Hydro-PS Acid	463.00 > 262.90	10.073	10.042	0.031		9061574	0.2537			132191
19 PFECA G	378.90 > 184.90	10.152	10.145	0.007		5271992	0.2085			163070
20 PFO4DA	376.90 > 85.00	10.309	10.269	0.040		3070122	0.2280			24286
21 PS Acid	443.00 > 146.90	10.360	10.344	0.016		4246762	0.2569			102508
22 EVE Acid	407.00 > 262.90	10.360	10.344	0.016		11781335	0.2145			187169
23 TAF	442.90 > 85.00	10.871	10.847	0.024		812682	0.2268			1568

**QC Flag Legend**

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD9\_00038

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d

Injection Date: 15-Dec-2020 22:50:16

Instrument ID: A7\_N

Lims ID: IC STD 9

Client ID:

Operator ID: abservice

ALS Bottle#: 13

Worklist Smp#: 11

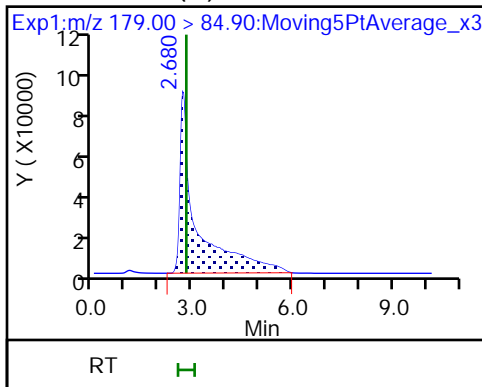
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

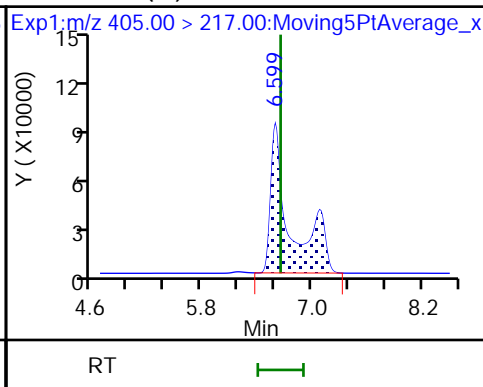
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

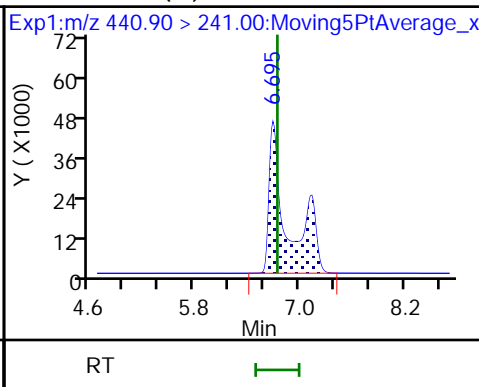
1 PFMOAA (M)



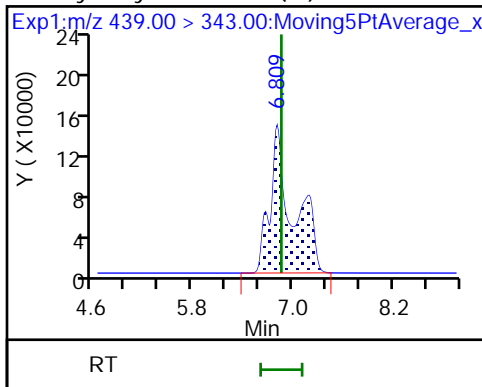
2 R-EVE (M)



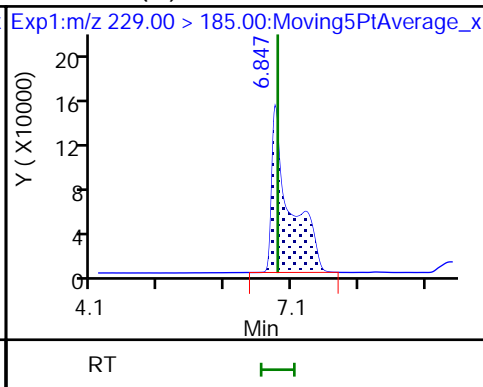
3 R-PSDA (M)



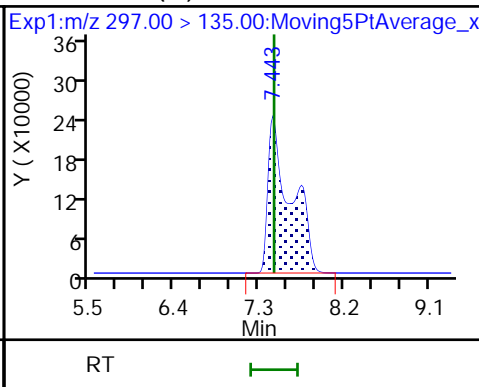
4 Hydrolyzed PSDA (M)



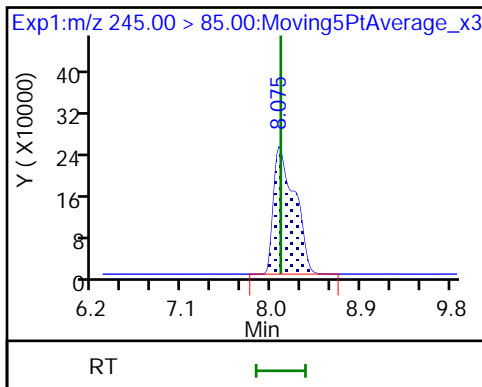
5 PMPA (M)



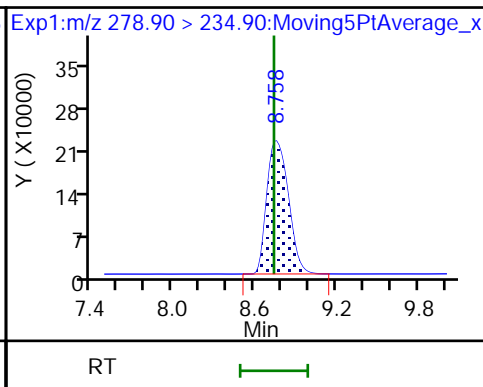
6 NVHOS (M)



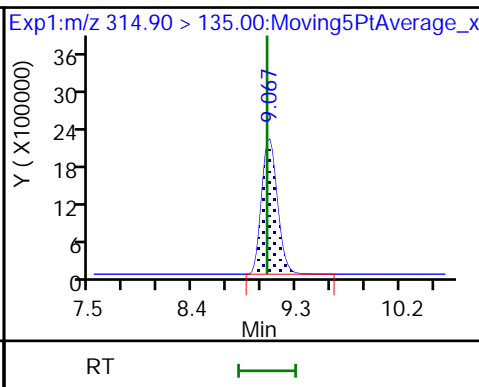
7 PFO2HxA



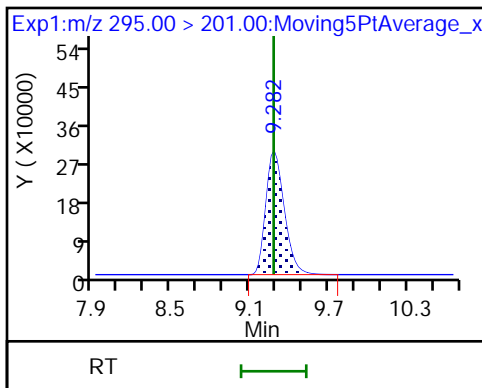
8 PEPA



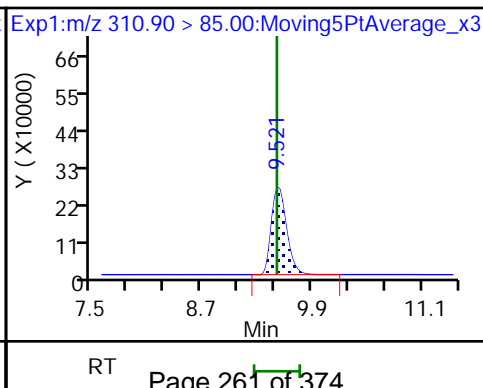
9 PES



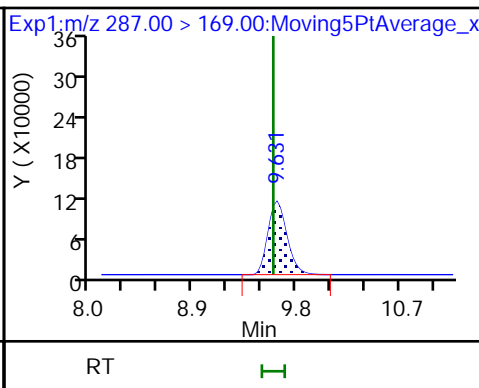
10 PFECA B

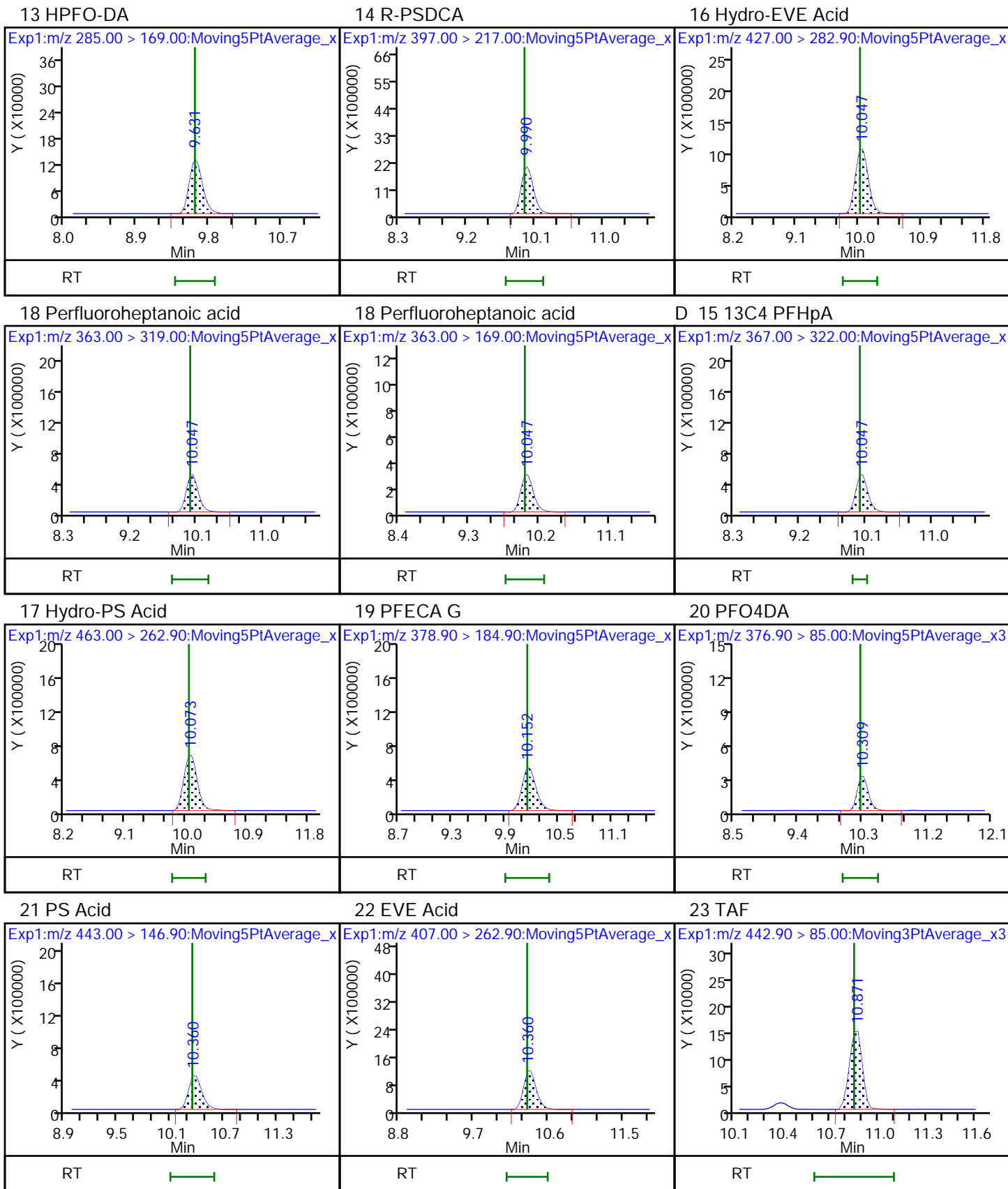


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

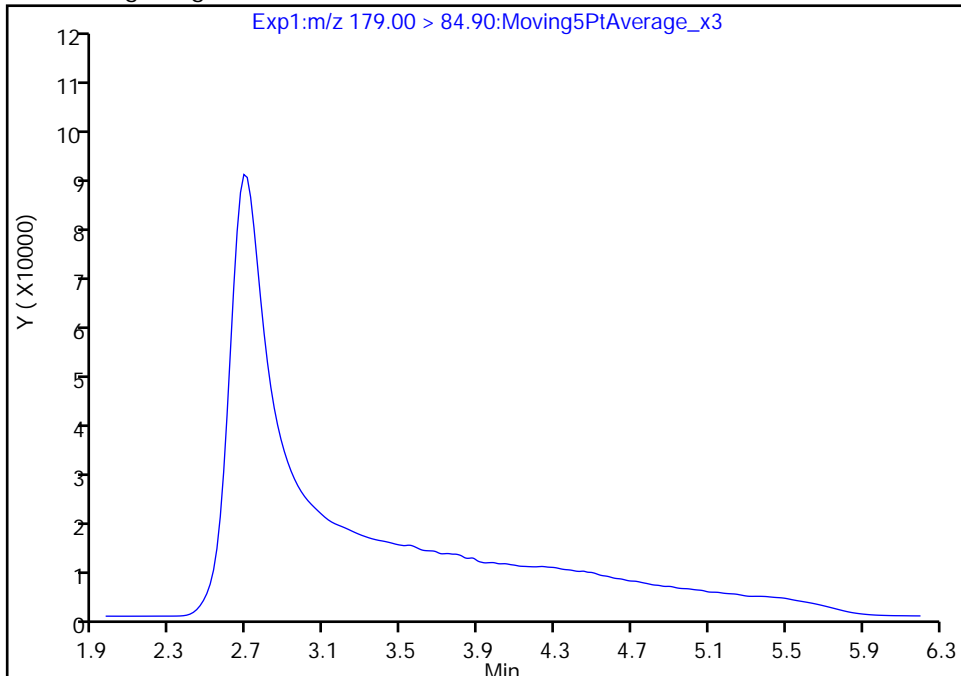
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

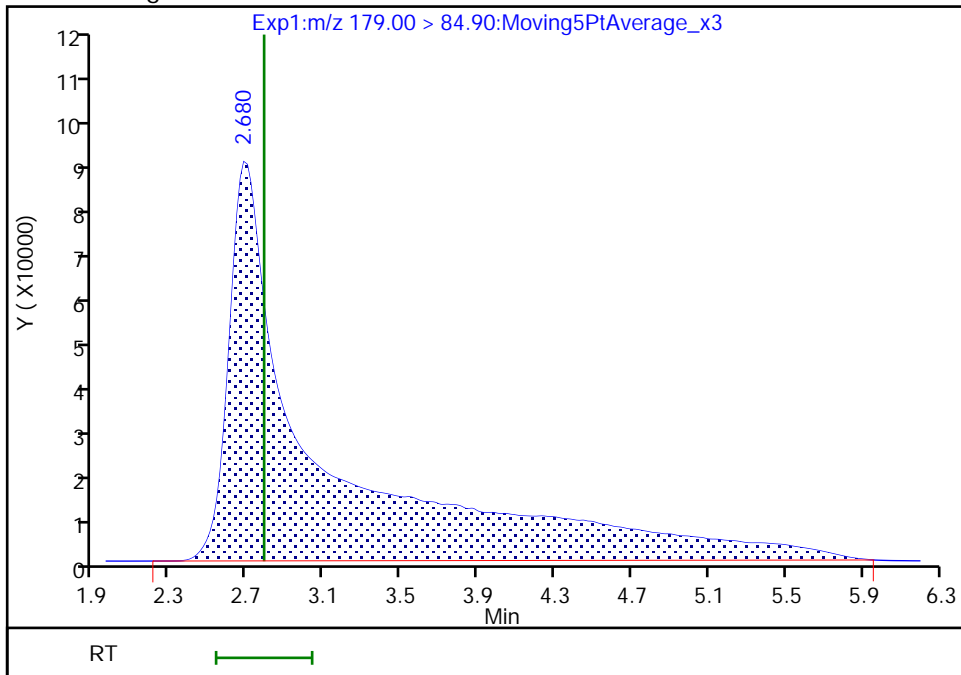
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.68  
Area: 2897339  
Amount: 0.234478  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:40:50  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

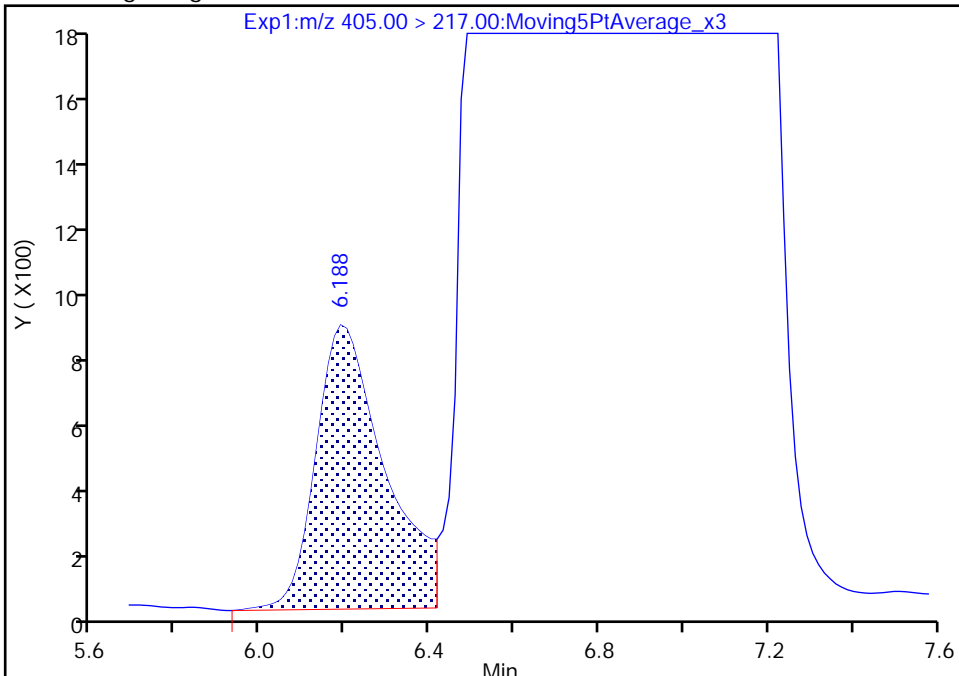
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Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

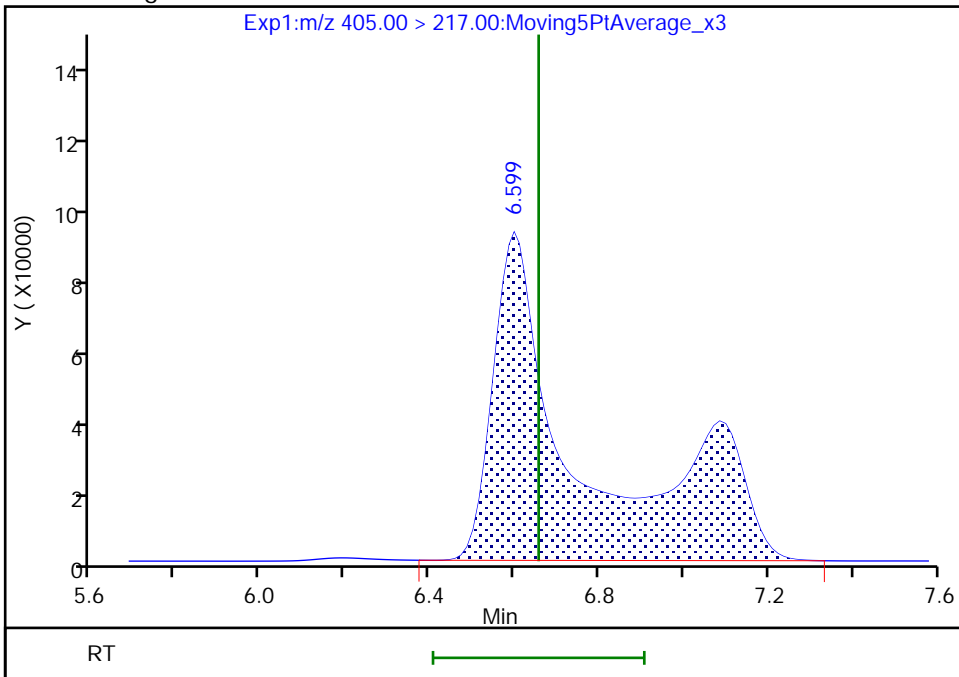
RT: 6.19  
Area: 9895  
Amount: 0.002440  
Amount Units: ng/ml

Processing Integration Results



RT: 6.60  
Area: 1290669  
Amount: 0.256853  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:45:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

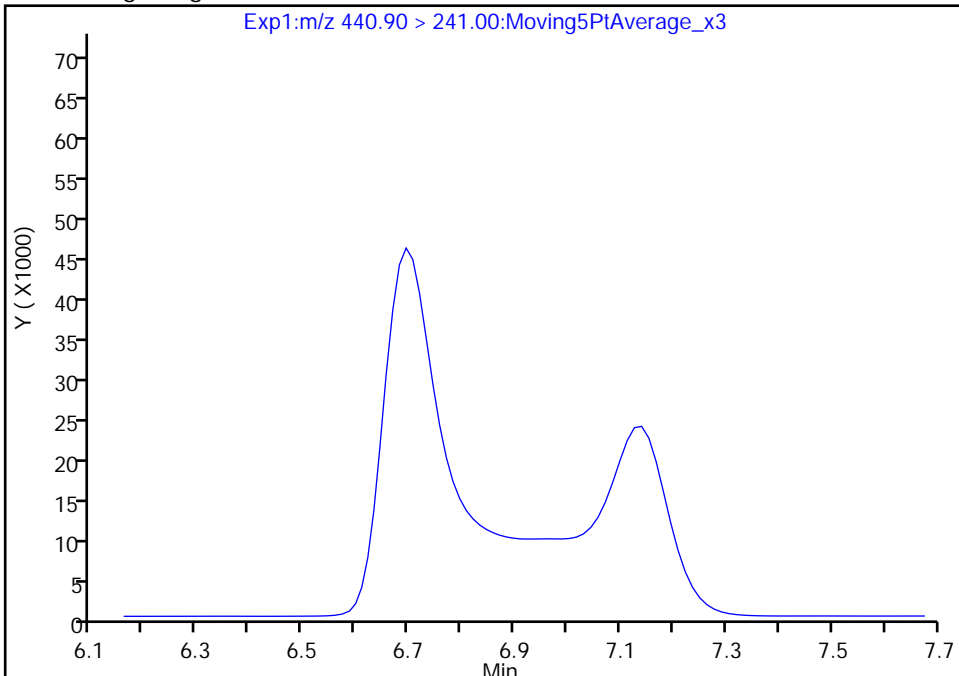
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

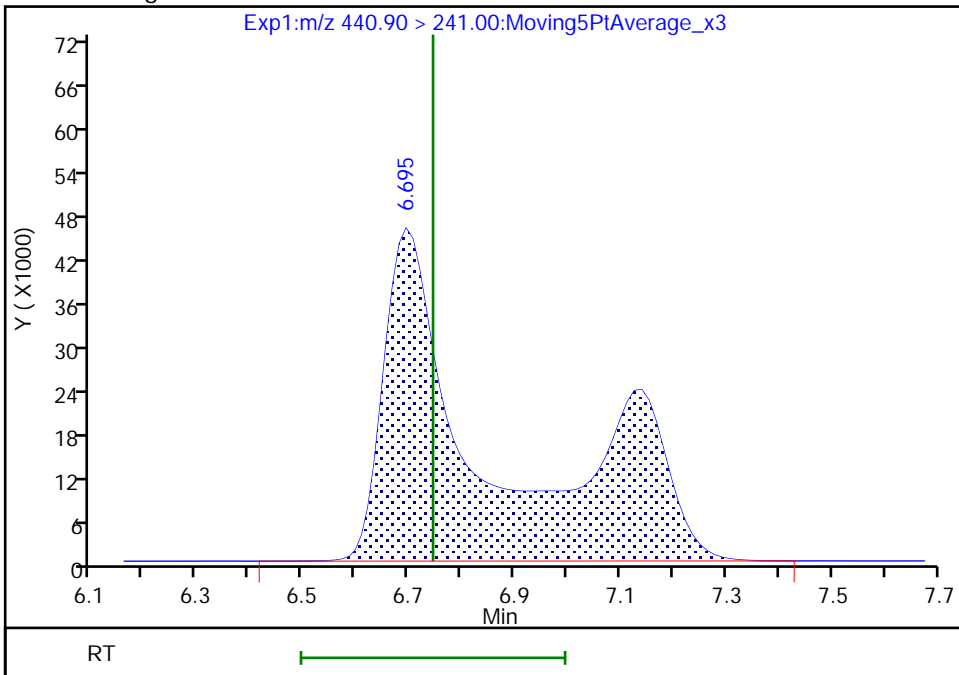
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.69  
Area: 660910  
Amount: 0.258816  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:40:54  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

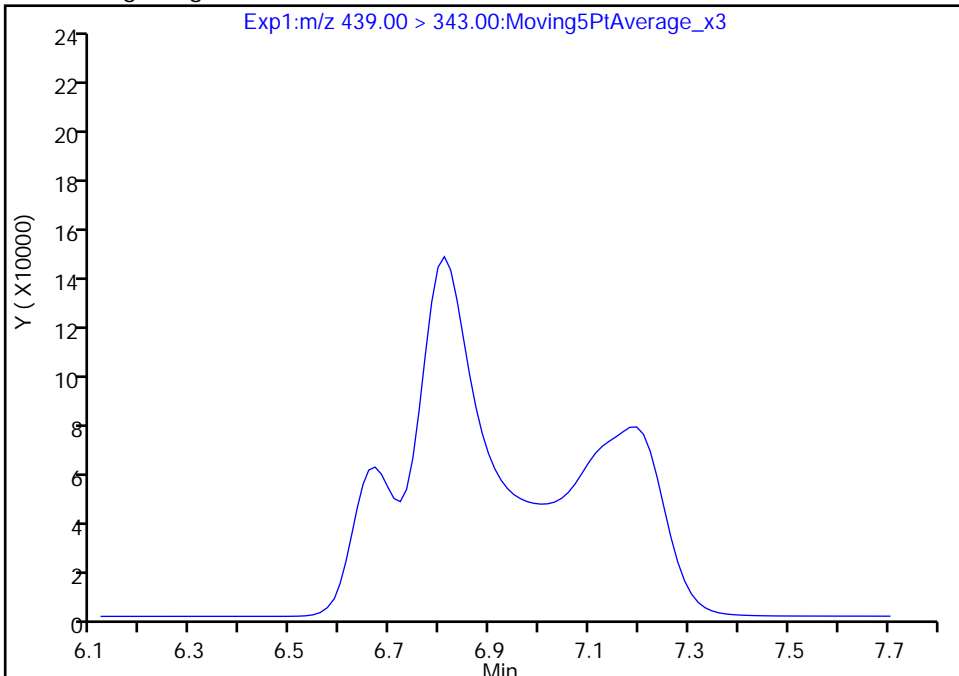
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Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

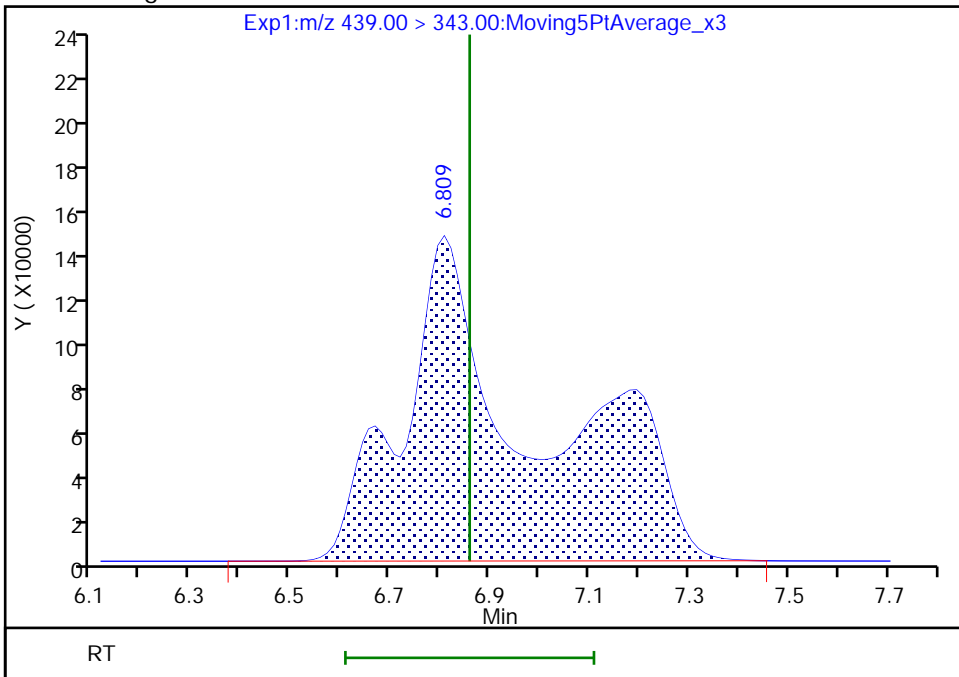
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.81  
Area: 2800615  
Amount: 0.245993  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

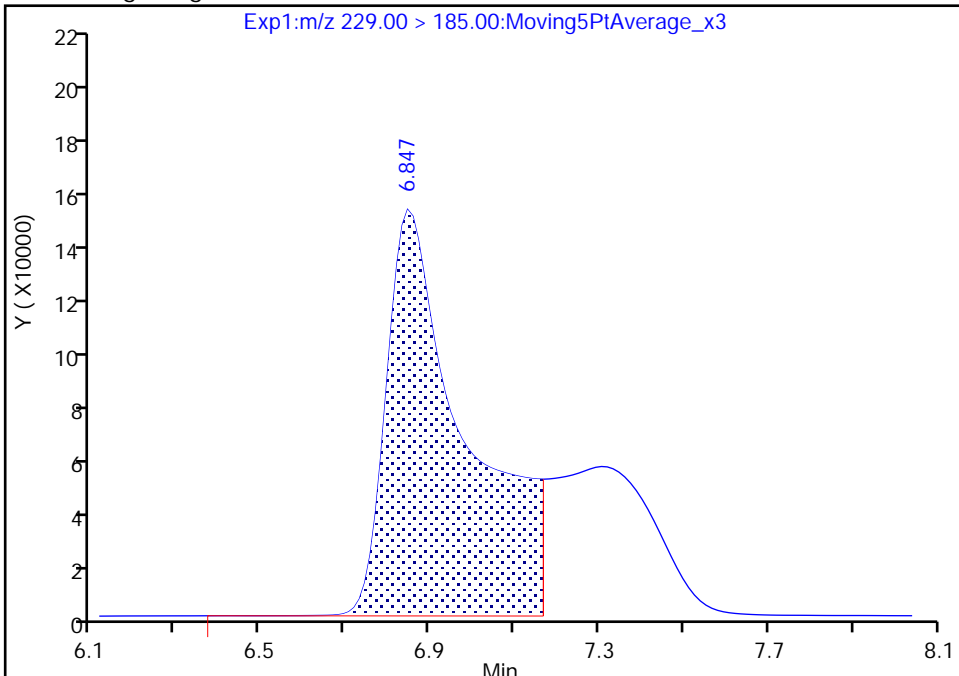
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

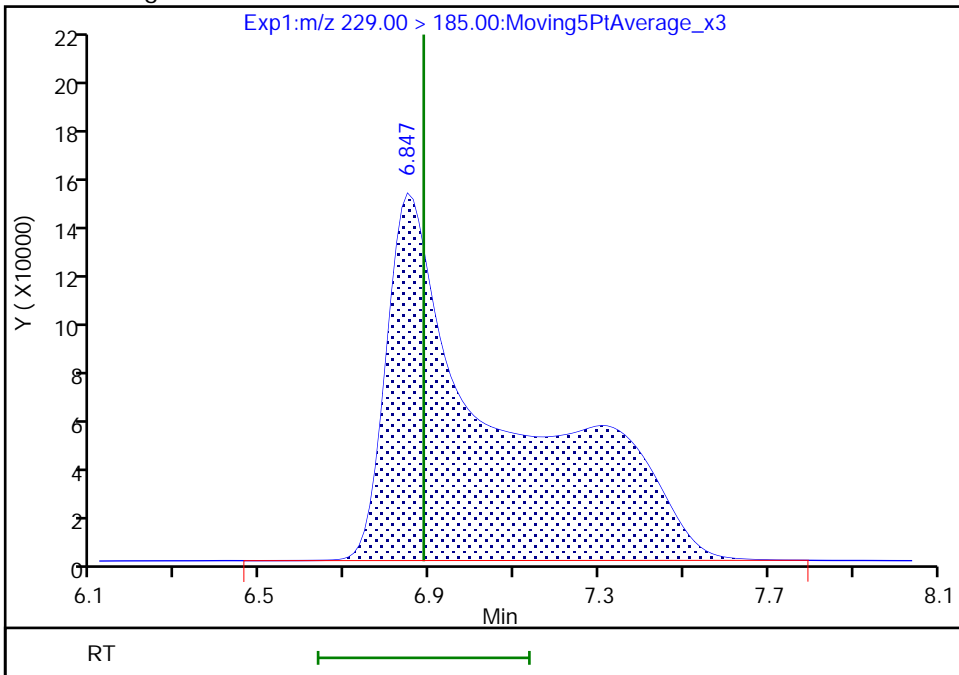
RT: 6.85  
Area: 1947618  
Amount: 0.175800  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 2861316  
Amount: 0.249038  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

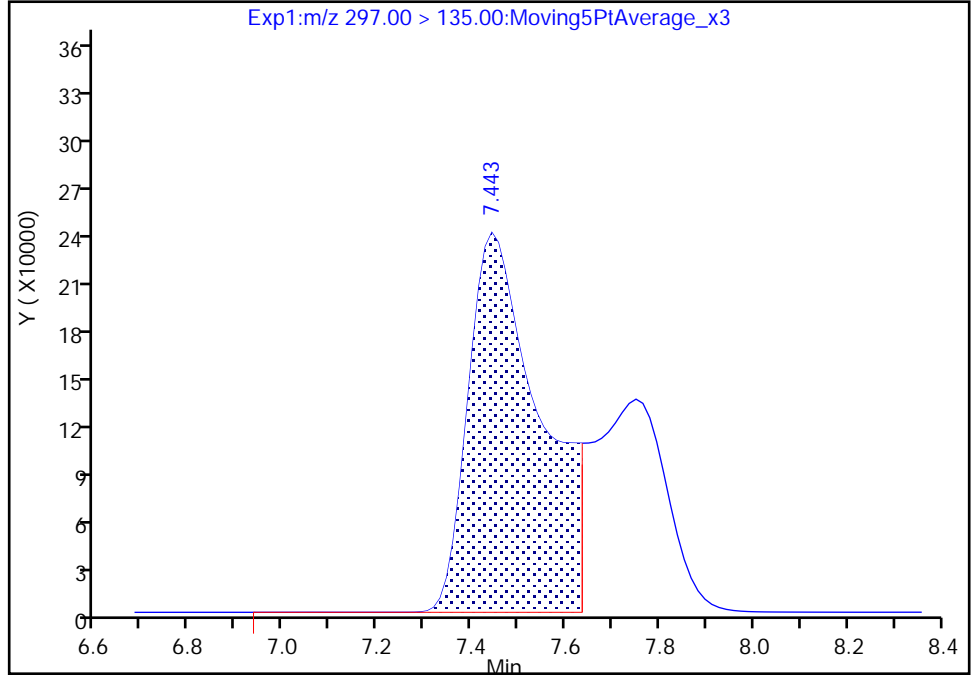
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

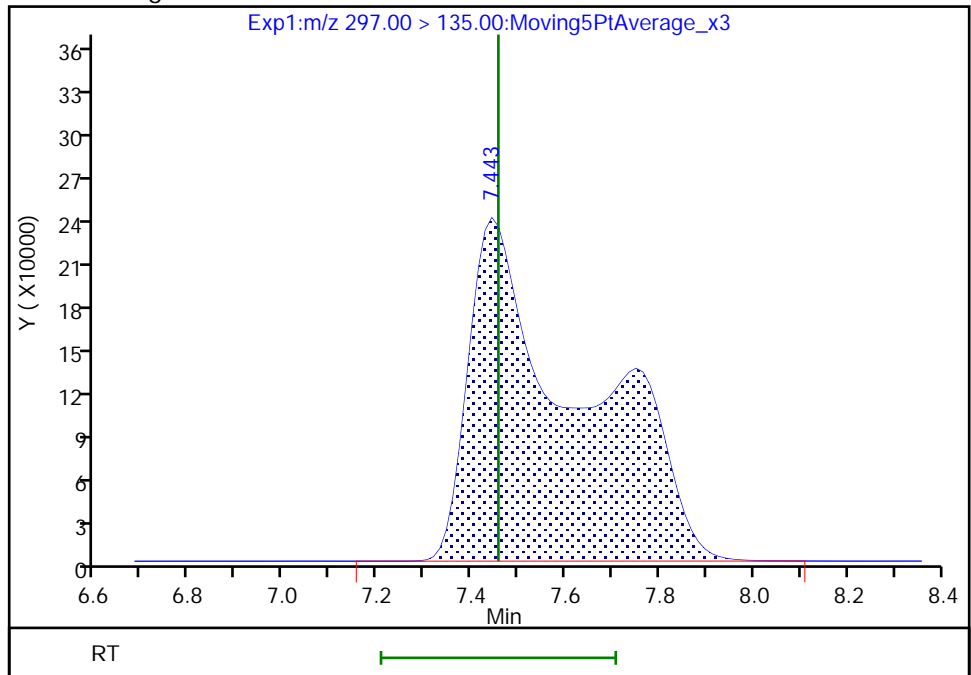
RT: 7.44  
Area: 2531086  
Amount: 0.182048  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 3970862  
Amount: 0.248045  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:11  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 15-Dec-2020 23:07:51 ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (37  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 10:39:09 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1641

First Level Reviewer: contrerese Date: 16-Dec-2020 09:42:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.715	2.785	-0.070		11572493	0.9365		93.7	27240	M
2 R-EVE										M
405.00 > 217.00	6.612	6.657	-0.045		5239045	1.04		104	20082	M
3 R-PSDA										M
440.90 > 241.00	6.708	6.746	-0.038		2882265	1.13		113	53015	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.822	6.860	-0.038		11769605	1.03		103	127508	M
5 PMPA										M
229.00 > 185.00	6.873	6.885	-0.012		11757457	1.02		102	11101	M
6 NVHOS										M
297.00 > 135.00	7.444	7.457	-0.013		15902147	0.99		99.3	88321	M
7 PFO2HxA										
245.00 > 85.00	8.078	8.094	-0.016		14299772	0.9799		98.0	89291	
8 PEPA										
278.90 > 234.90	8.745	8.739	0.006		9581725	1.01		101	40243	
9 PES										
314.90 > 135.00	9.035	9.044	-0.009		50045322	0.5700		57.0	368140	
10 PFECA B										
295.00 > 201.00	9.249	9.279	-0.030		10196243	0.9555		95.5	264520	
11 PFO3OA										
310.90 > 85.00	9.506	9.516	-0.010		11031957	0.9054		90.5	123825	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.616	9.599	0.017		1153177	0.2340		93.6	33156	
13 HPFO-DA										
285.00 > 169.00	9.616	9.627	-0.010	1.000	5017951	0.9567		95.7	109236	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.975	9.957	0.018		38545187	0.3602		36.0	141164	
16 Hydro-EVE Acid										
427.00 > 282.90	10.002	10.013	-0.011		37389456	0.6518		65.2	188365	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.002	10.013	-0.011	1.000	16274985	0.8557	Target=0.00	85.6	234566	
363.00 > 169.00	10.002	10.013	-0.011	1.000	10718930		1.52(0.00-0.00)	85.6	185819	
D 15 13C4 PFHpA										
367.00 > 322.00	10.002	10.013	-0.011		4753249	0.2091		83.6	138104	
17 Hydro-PS Acid										
463.00 > 262.90	10.031	10.042	-0.011		30040413	0.8410		84.1	237920	
19 PFECA G										
378.90 > 184.90	10.145	10.145	0.0		13147764	0.5200		52.0	373901	
20 PFO4DA										
376.90 > 85.00	10.287	10.269	0.018		12159262	0.9031		90.3	53084	
21 PS Acid										
443.00 > 146.90	10.344	10.344	0.0		12275588	0.7427		74.3	156587	
22 EVE Acid										
407.00 > 262.90	10.344	10.344	0.0		26500543	0.4826		48.3	129575	
23 TAF										
442.90 > 85.00	10.845	10.847	-0.002		2995282	0.8360		83.6	2996	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD10\_00037

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Injection Date: 15-Dec-2020 23:07:51

Instrument ID: A7\_N

Lims ID: IC STD 10

Client ID:

Operator ID: abservice

ALS Bottle#: 14

Worklist Smp#: 12

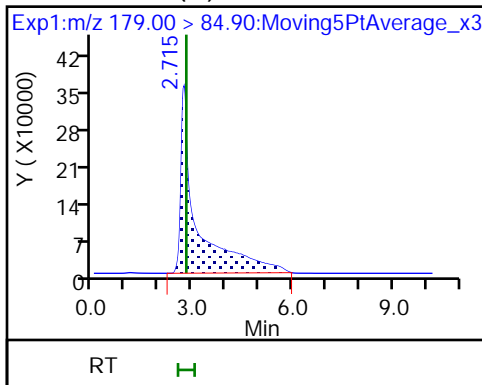
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

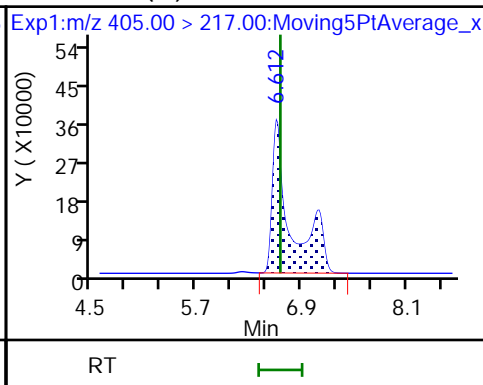
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

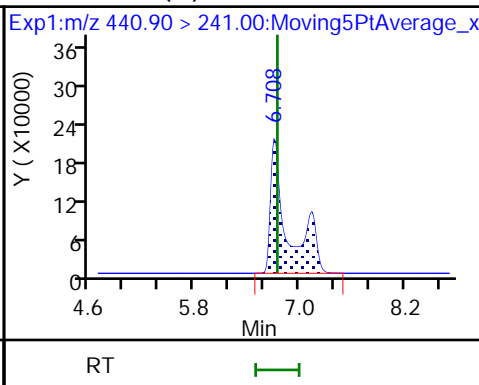
1 PFMOAA (M)



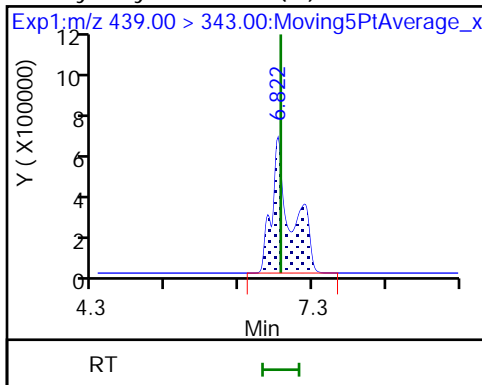
2 R-EVE (M)



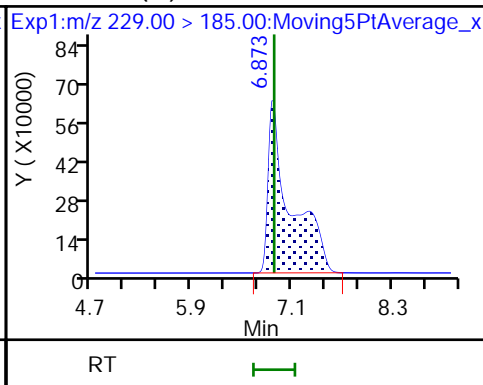
3 R-PSDA (M)



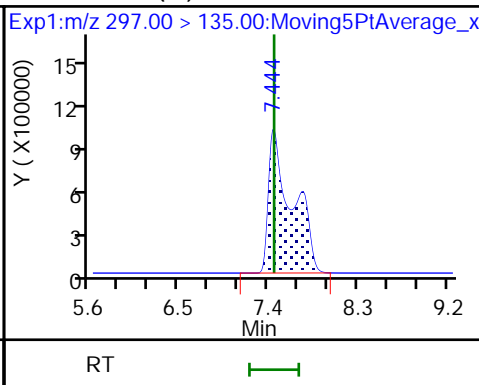
4 Hydrolyzed PSDA (M)



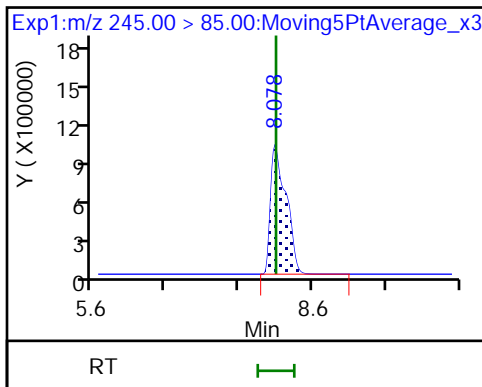
5 PMPA (M)



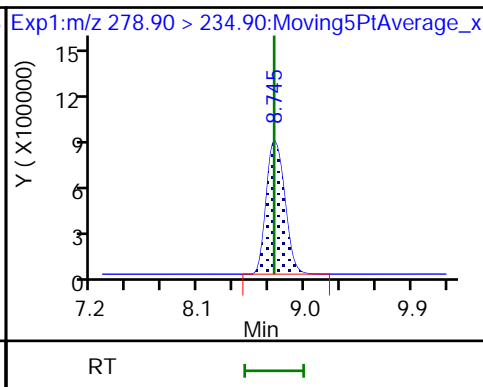
6 NVHOS (M)



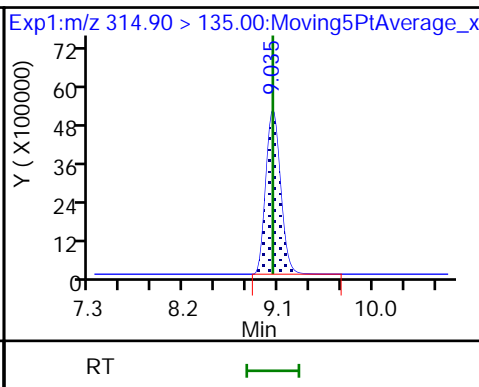
7 PFO2HxA



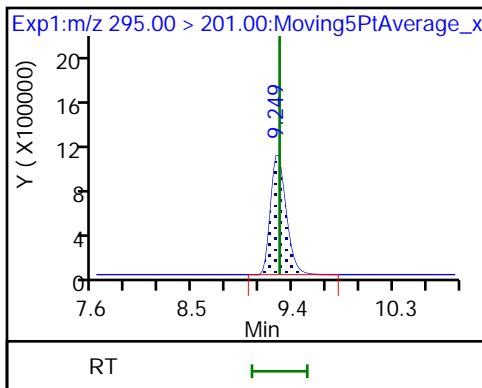
8 PEPA



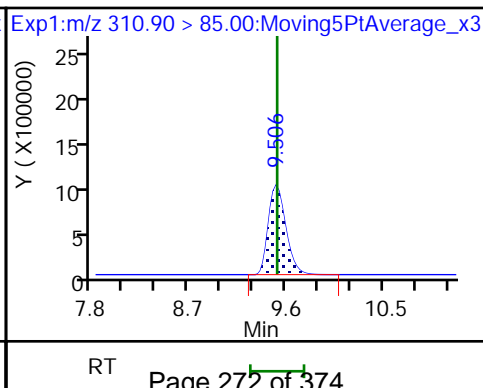
9 PES



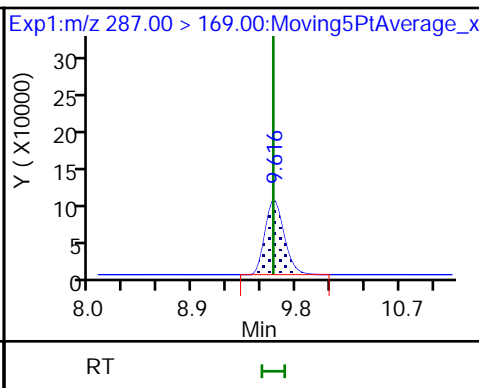
10 PFECA B

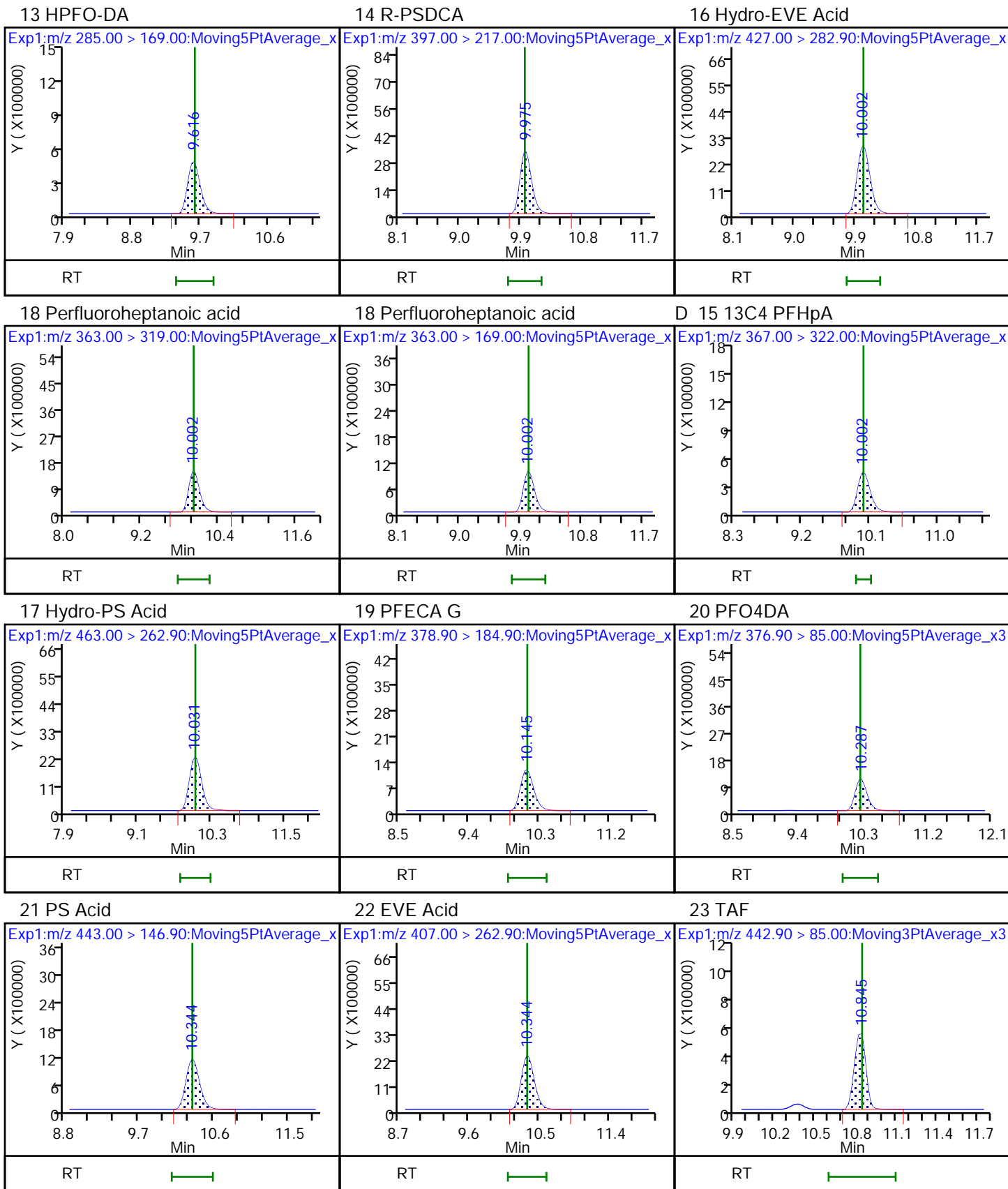


11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

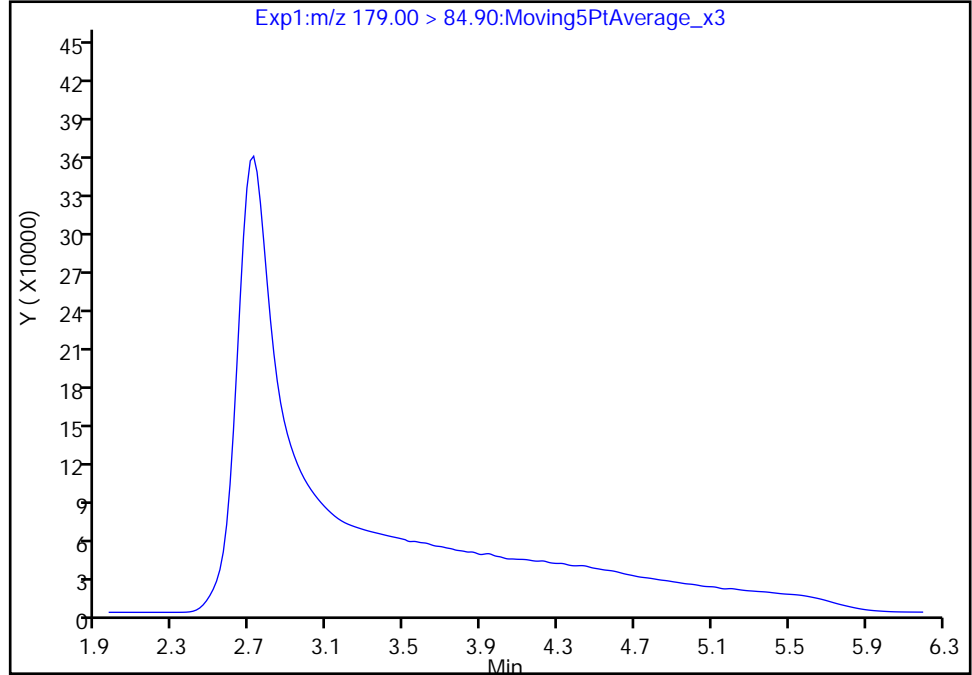
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

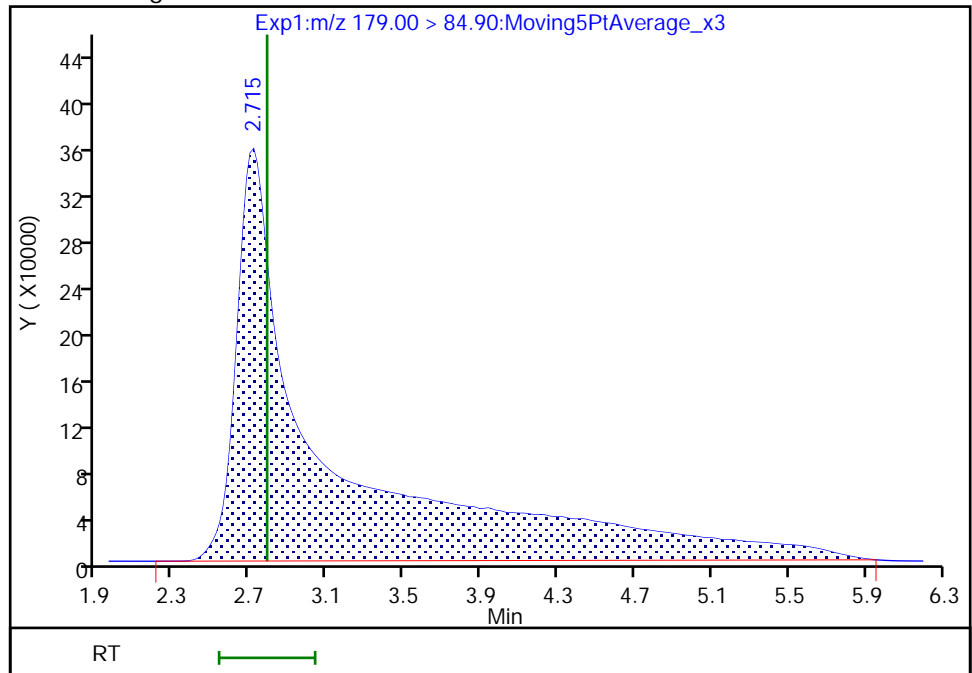
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.72  
Area: 11572493  
Amount: 0.936549  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:41:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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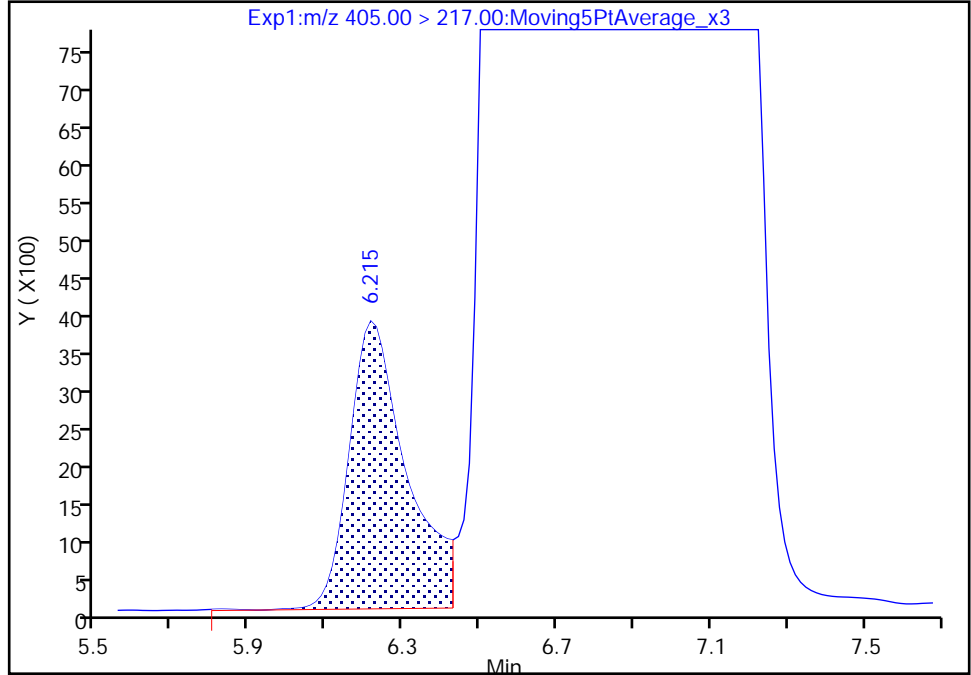
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

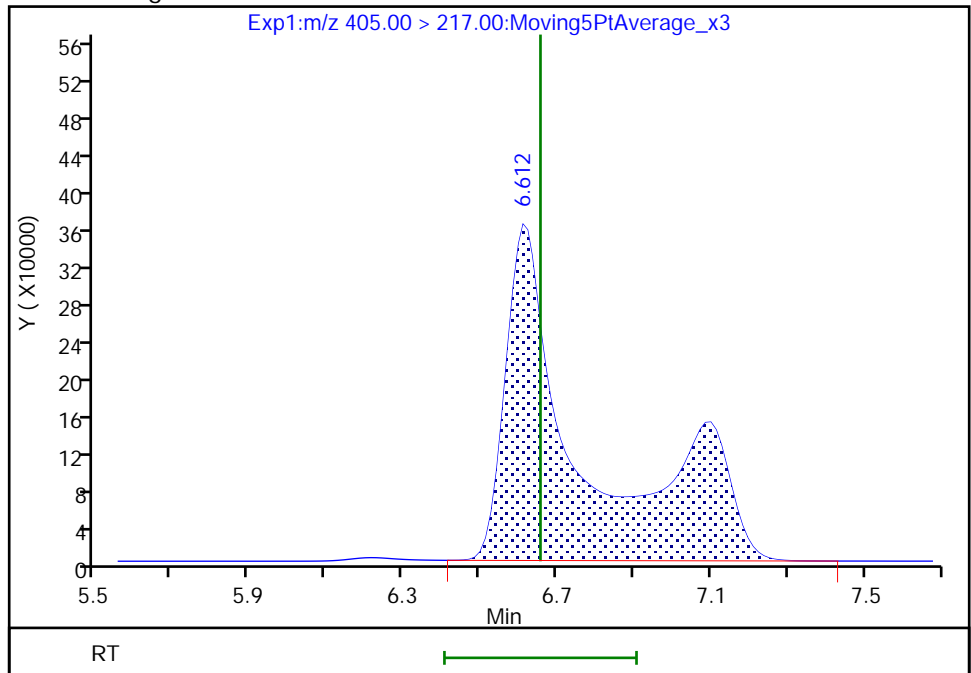
RT: 6.22  
Area: 39782  
Amount: 0.009221  
Amount Units: ng/ml

Processing Integration Results



RT: 6.61  
Area: 5239045  
Amount: 1.042610  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

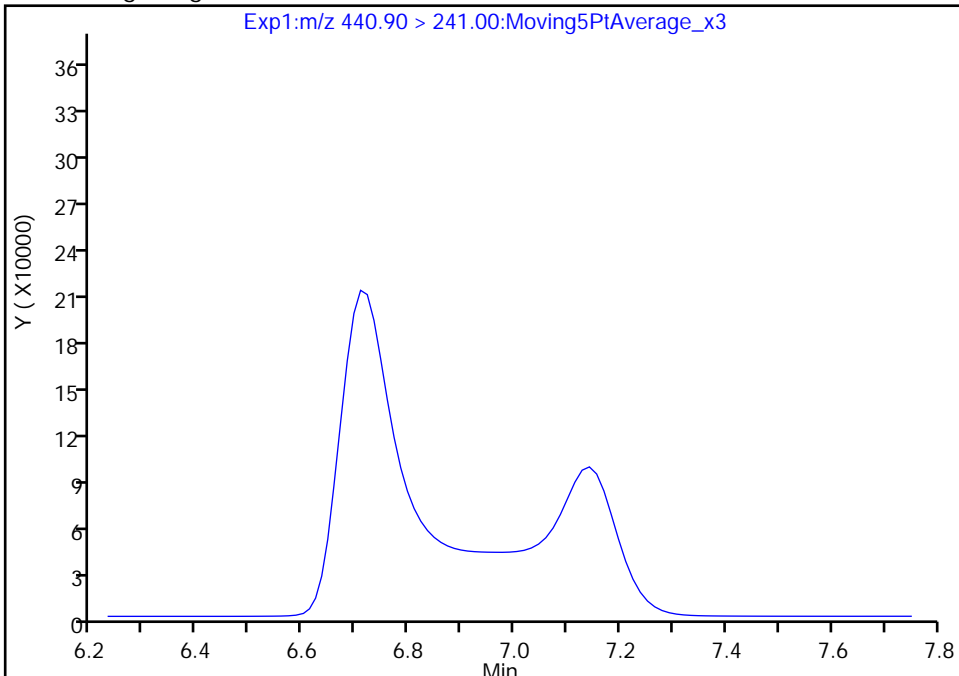
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

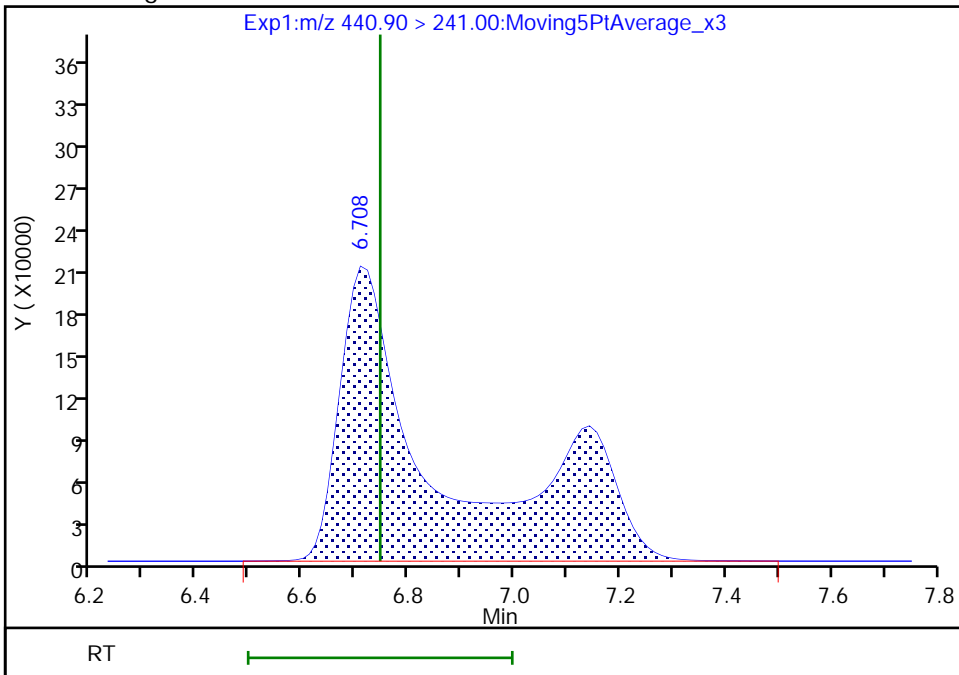
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.71  
Area: 2882265  
Amount: 1.128709  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:41:40  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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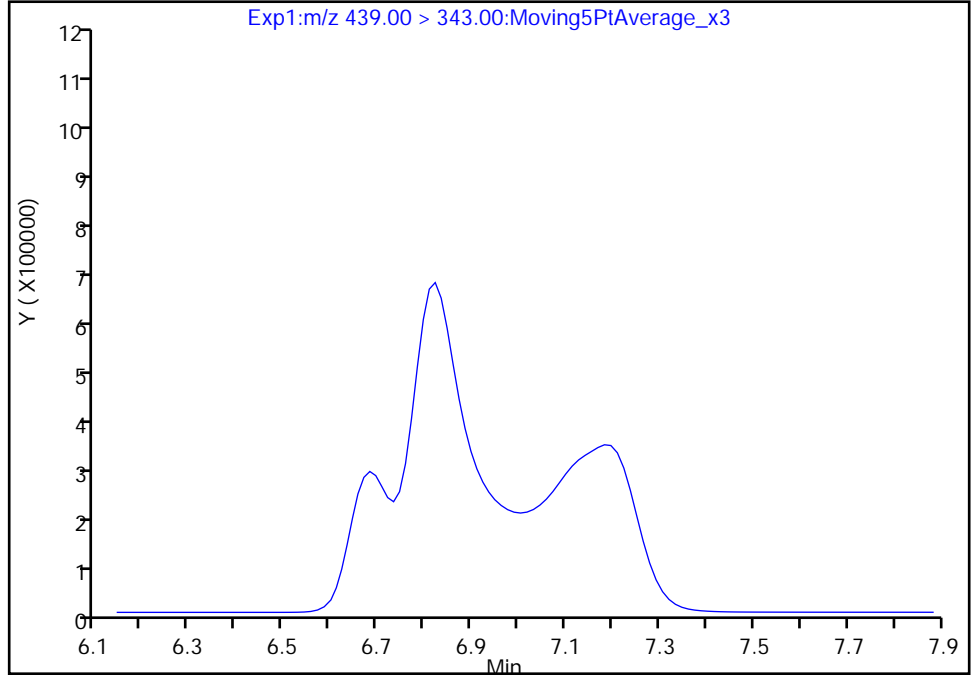
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

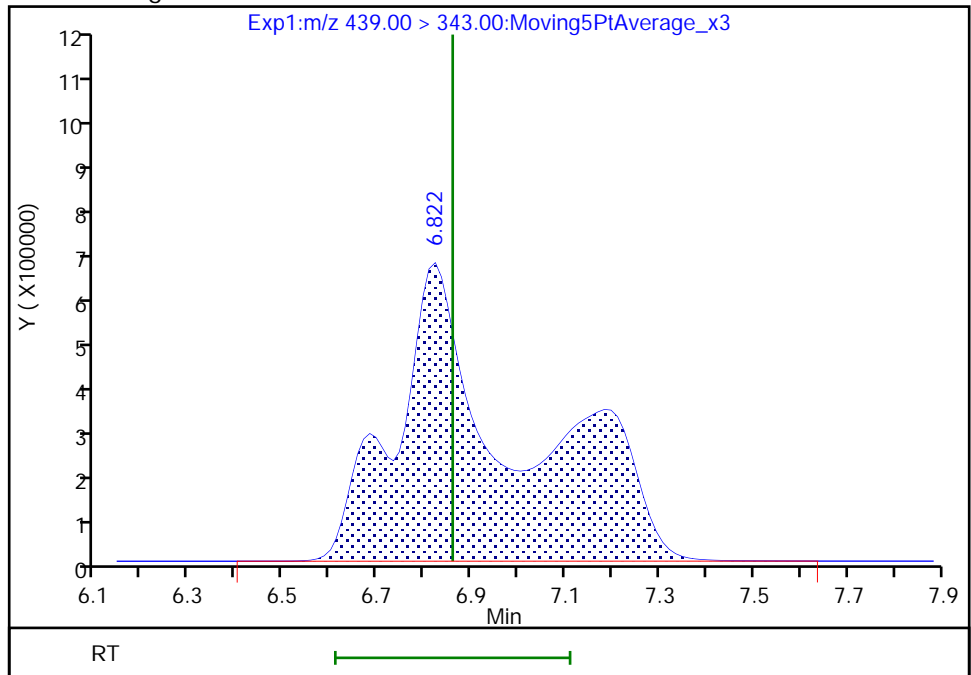
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.82  
Area: 11769605  
Amount: 1.033789  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:41:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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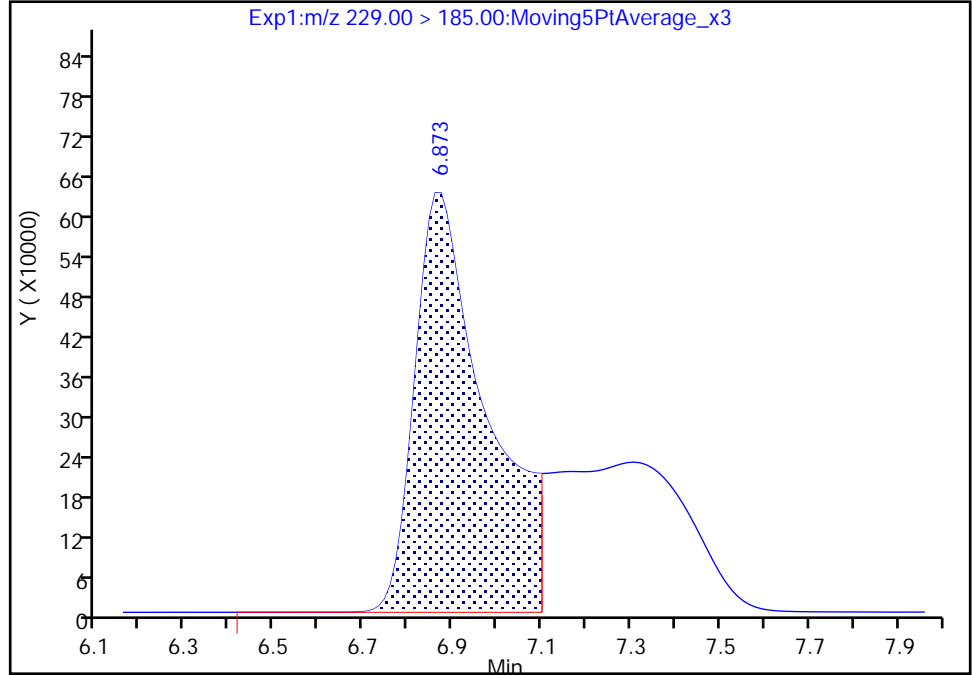
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

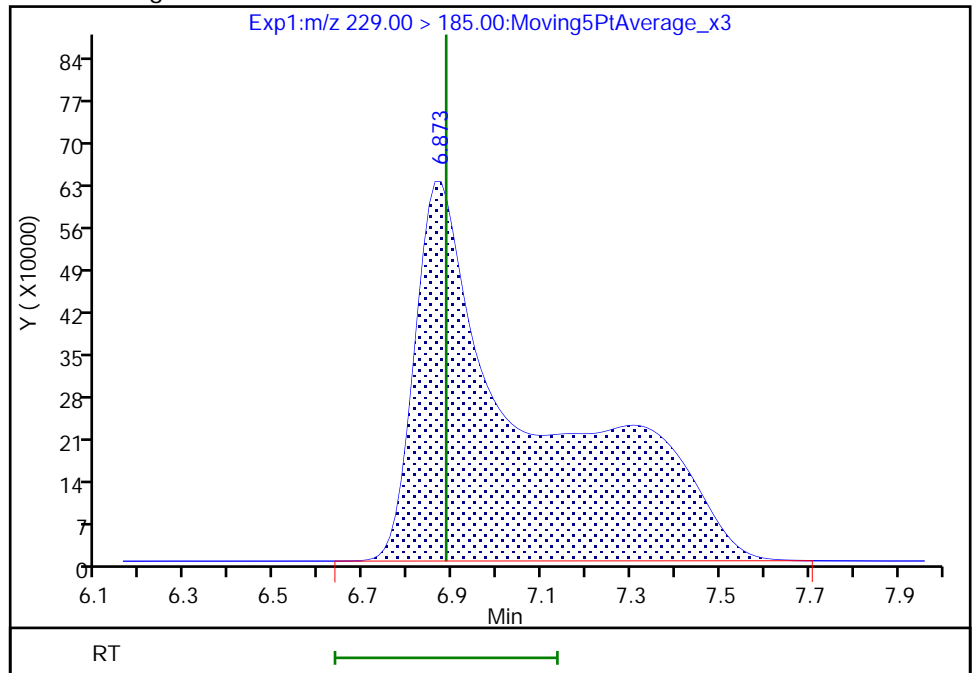
RT: 6.87  
Area: 7050611  
Amount: 0.626089  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 11757457  
Amount: 1.023325  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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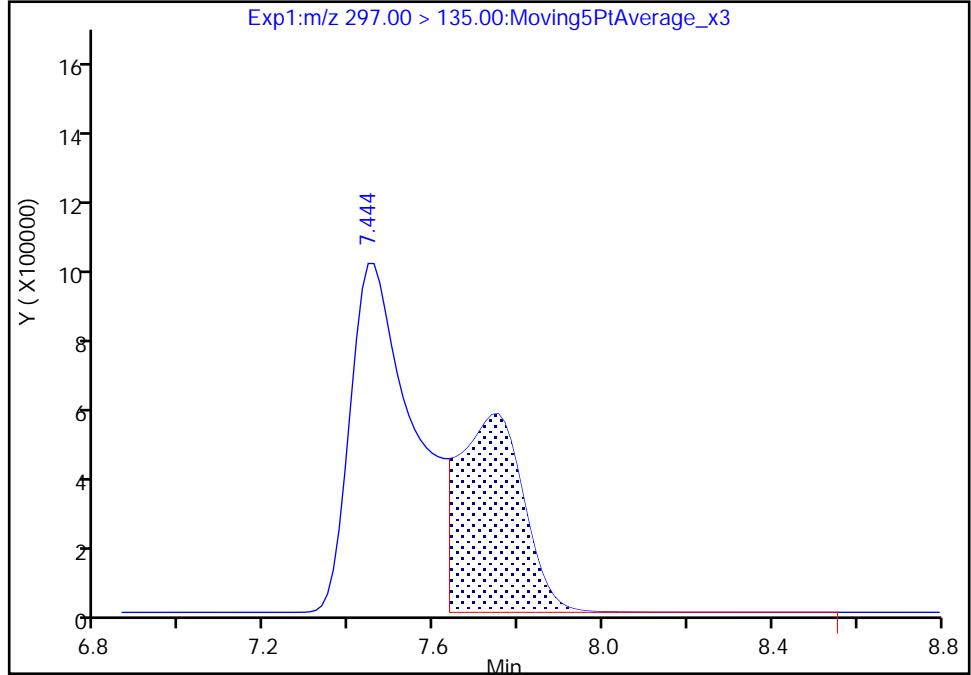
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

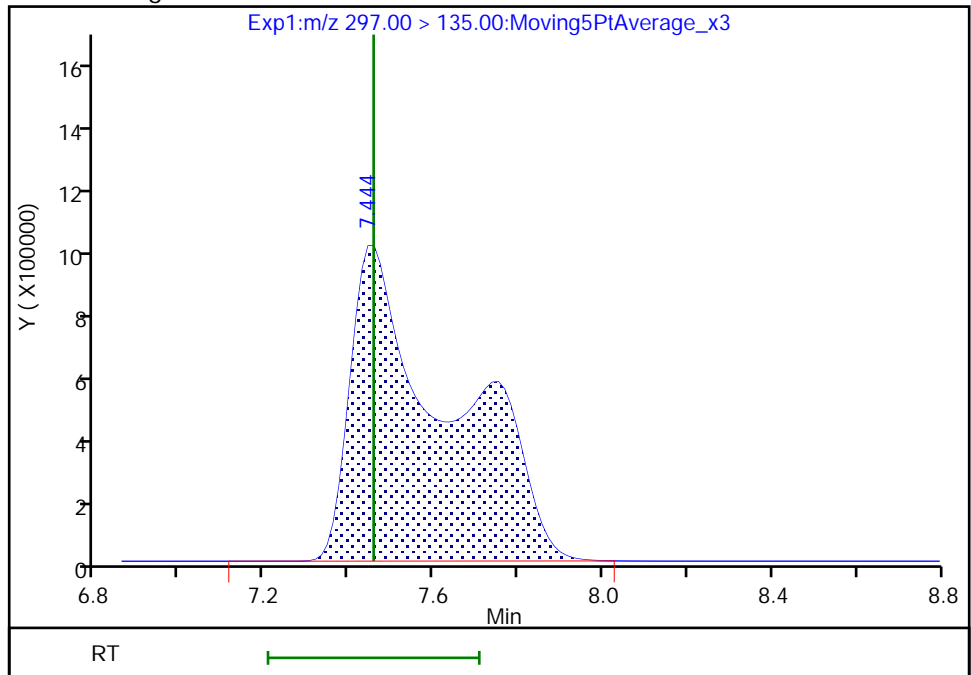
RT: 7.44  
Area: 5796390  
Amount: 0.408444  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 15902147  
Amount: 0.993347  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:42:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Calibration

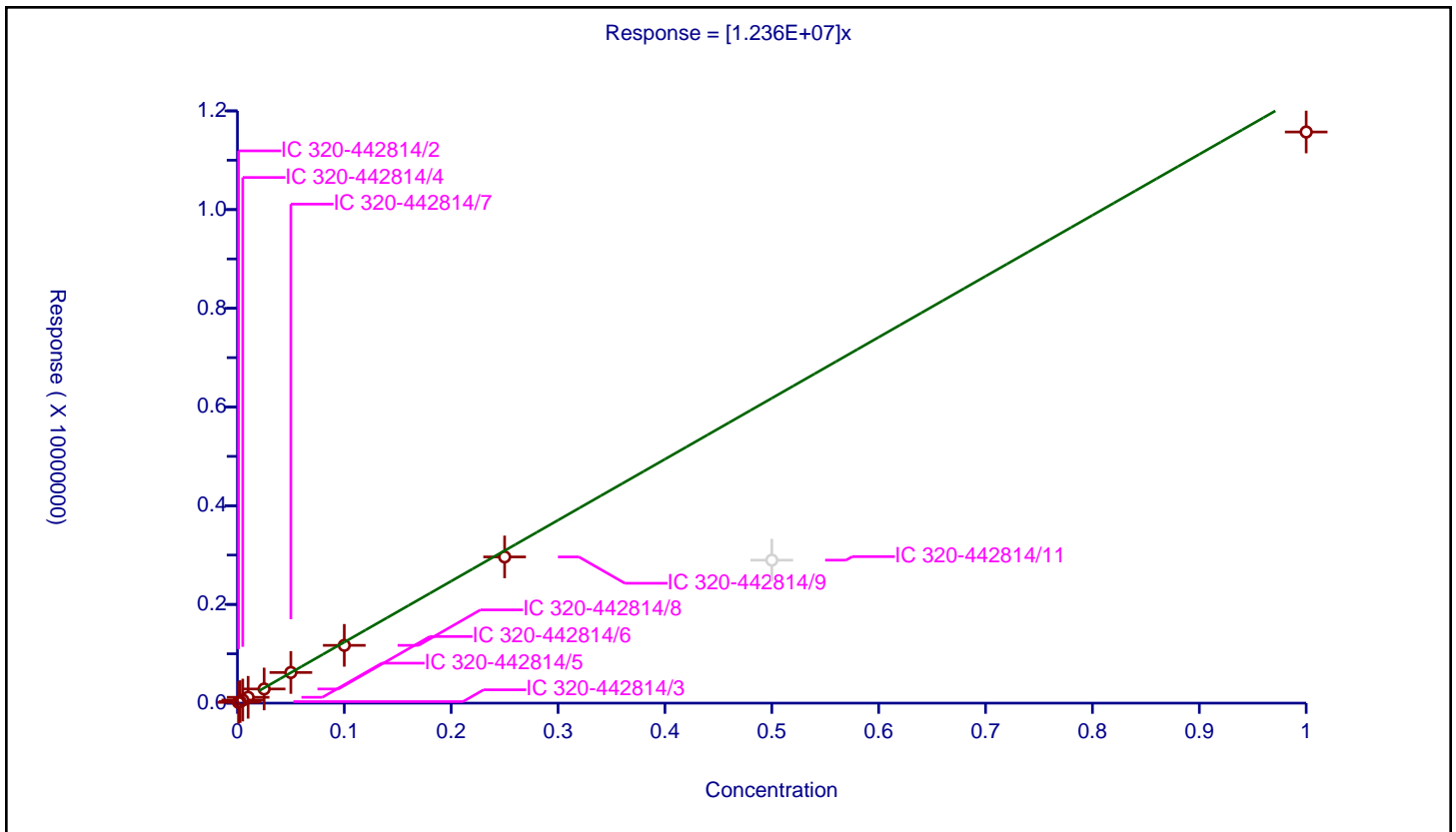
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.236E+07

Error Coefficients	
Standard Error:	282000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15572.0			15572000.0	Y
2	IC 320-442814/3	0.0025	30814.0			12325600.0	Y
3	IC 320-442814/4	0.005	62326.0			12465200.0	Y
4	IC 320-442814/5	0.01	118183.0			11818300.0	Y
5	IC 320-442814/6	0.025	286892.0			11475680.0	Y
6	IC 320-442814/7	0.05	621014.0			12420280.0	Y
7	IC 320-442814/8	0.1	1170891.0			11708910.0	Y
8	IC 320-442814/9	0.25	2962580.0			11850320.0	Y
9	IC 320-442814/11	0.5	2897339.0			5794678.0	N
10	IC 320-442814/12	1.0	11572493.0			11572493.0	Y



Calibration

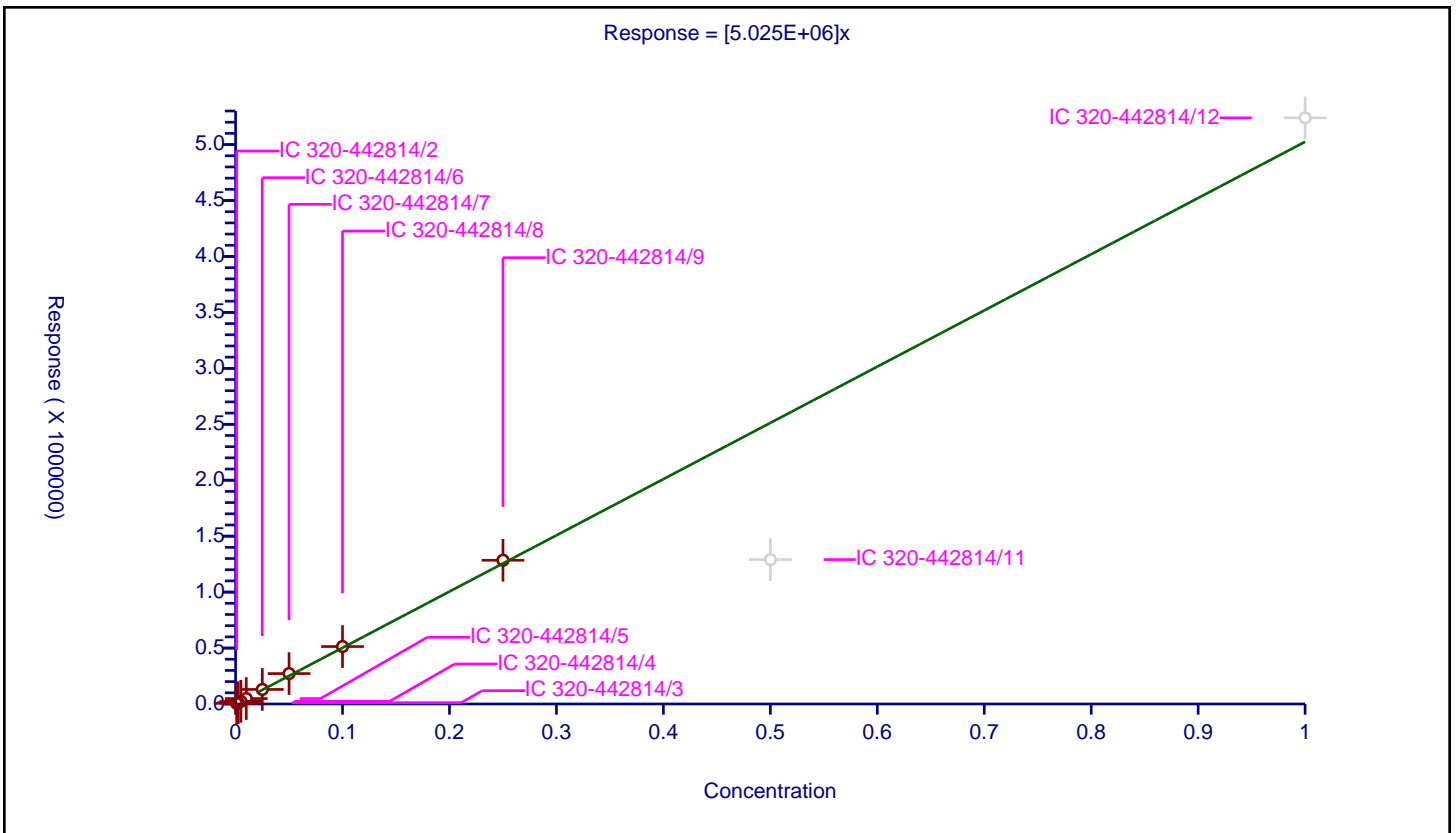
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.025E+06

Error Coefficients	
Standard Error:	14000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	5033.0			5033000.0	Y
2	IC 320-442814/3	0.0025	11679.0			4671600.0	Y
3	IC 320-442814/4	0.005	23702.0			4740400.0	Y
4	IC 320-442814/5	0.01	48470.0			4847000.0	Y
5	IC 320-442814/6	0.025	129927.0			5197080.0	Y
6	IC 320-442814/7	0.05	271839.0			5436780.0	Y
7	IC 320-442814/8	0.1	513487.0			5134870.0	Y
8	IC 320-442814/9	0.25	1284679.0			5138716.0	Y
9	IC 320-442814/11	0.5	1290669.0			2581338.0	N
10	IC 320-442814/12	1.0	5239045.0			5239045.0	N





Calibration

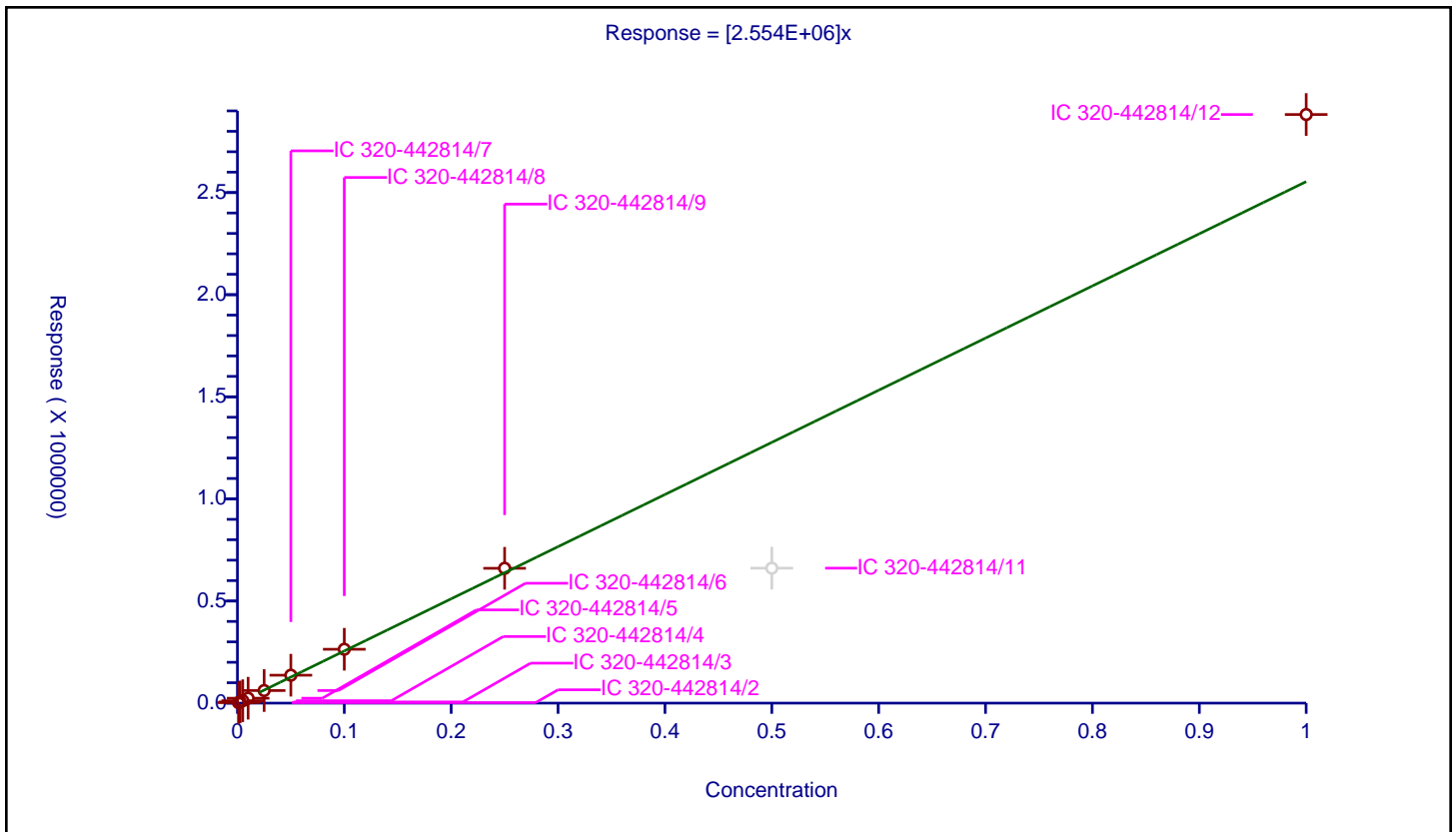
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.554E+06

Error Coefficients	
Standard Error:	117000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	2507.0			2507000.0	Y
2	IC 320-442814/3	0.0025	5860.0			2344000.0	Y
3	IC 320-442814/4	0.005	11821.0			2364200.0	Y
4	IC 320-442814/5	0.01	24062.0			2406200.0	Y
5	IC 320-442814/6	0.025	61642.0			2465680.0	Y
6	IC 320-442814/7	0.05	136730.0			2734600.0	Y
7	IC 320-442814/8	0.1	263743.0			2637430.0	Y
8	IC 320-442814/9	0.25	660243.0			2640972.0	Y
9	IC 320-442814/11	0.5	660910.0			1321820.0	N
10	IC 320-442814/12	1.0	2882265.0			2882265.0	Y



**Calibration**

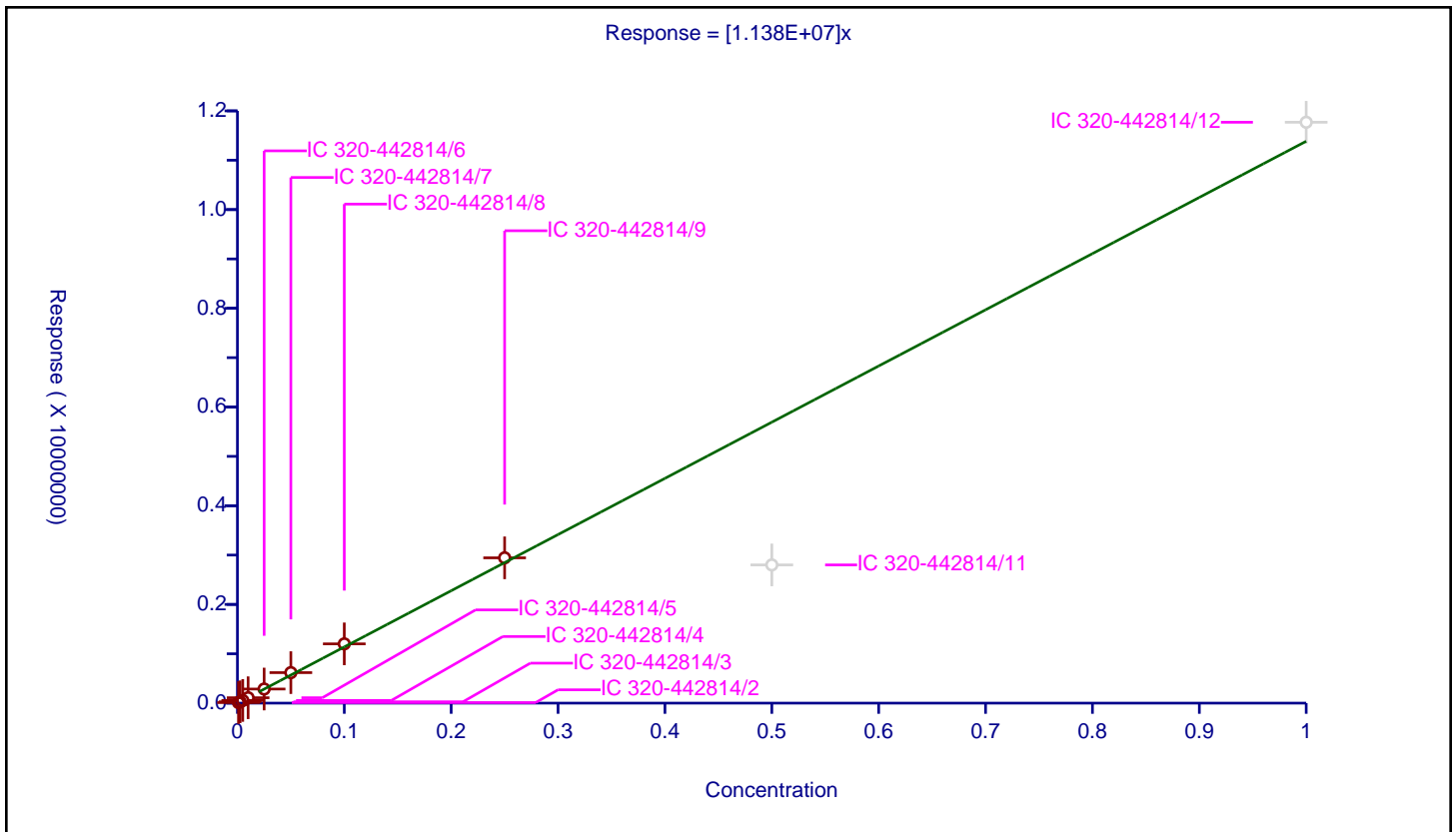
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.138E+07

Error Coefficients	
Standard Error:	47600
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	10806.0			10806000.0	Y
2	IC 320-442814/3	0.0025	27373.0			10949200.0	Y
3	IC 320-442814/4	0.005	54113.0			10822600.0	Y
4	IC 320-442814/5	0.01	109182.0			10918200.0	Y
5	IC 320-442814/6	0.025	285958.0			11438320.0	Y
6	IC 320-442814/7	0.05	618080.0			12361600.0	Y
7	IC 320-442814/8	0.1	1200781.0			12007810.0	Y
8	IC 320-442814/9	0.25	2943913.0			11775652.0	Y
9	IC 320-442814/11	0.5	2800615.0			5601230.0	N
10	IC 320-442814/12	1.0	11769605.0			11769605.0	N



Calibration

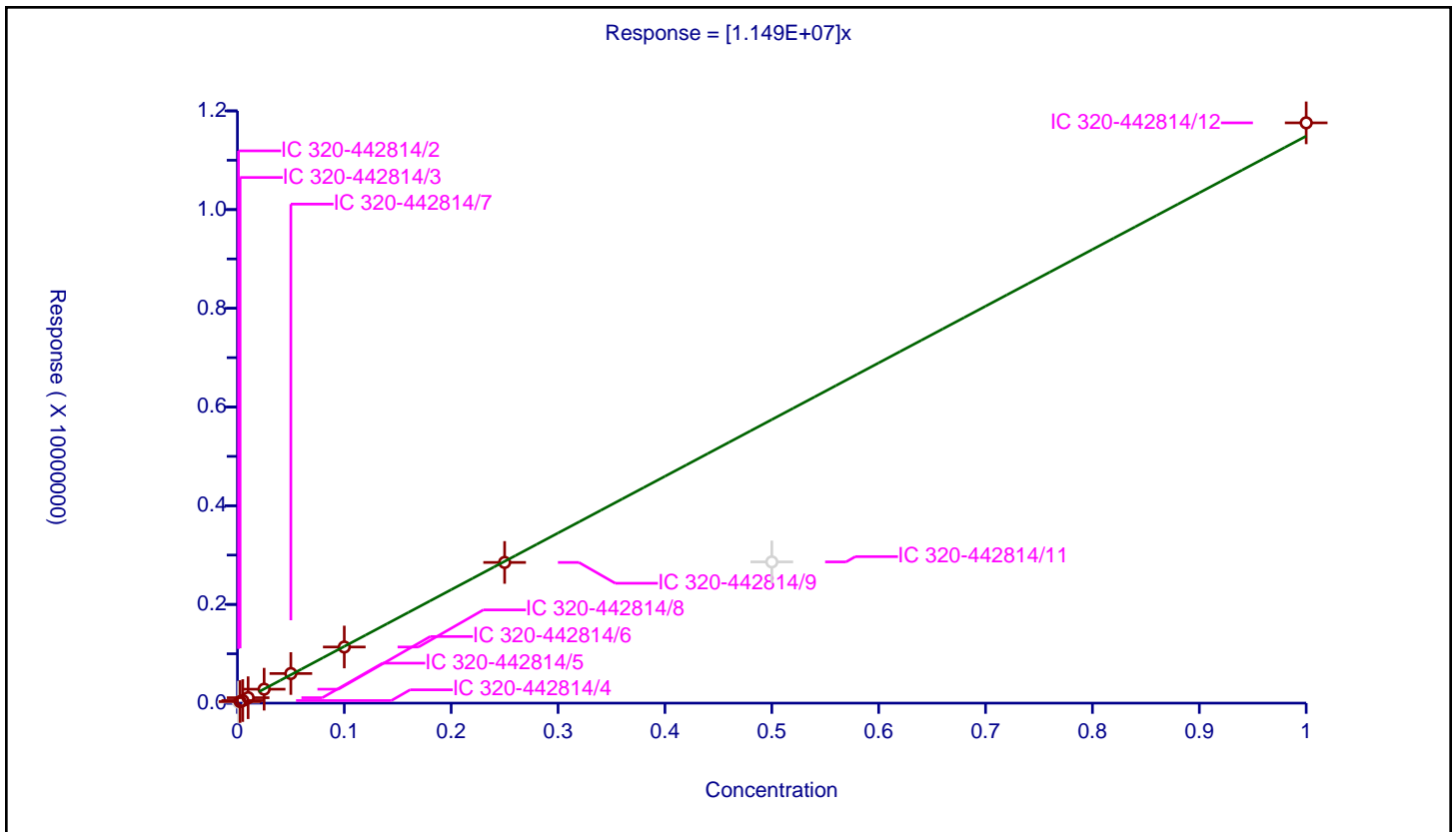
/ PMPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.149E+07

Error Coefficients	
Standard Error:	102000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	19682.0			19682000.0	N
2	IC 320-442814/3	0.0025	31627.0			12650800.0	Y
3	IC 320-442814/4	0.005	52231.0			10446200.0	Y
4	IC 320-442814/5	0.01	109924.0			10992400.0	Y
5	IC 320-442814/6	0.025	282506.0			11300240.0	Y
6	IC 320-442814/7	0.05	599690.0			11993800.0	Y
7	IC 320-442814/8	0.1	1137198.0			11371980.0	Y
8	IC 320-442814/9	0.25	2850703.0			11402812.0	Y
9	IC 320-442814/11	0.5	2861316.0			5722632.0	N
10	IC 320-442814/12	1.0	11757457.0			11757457.0	Y



Calibration

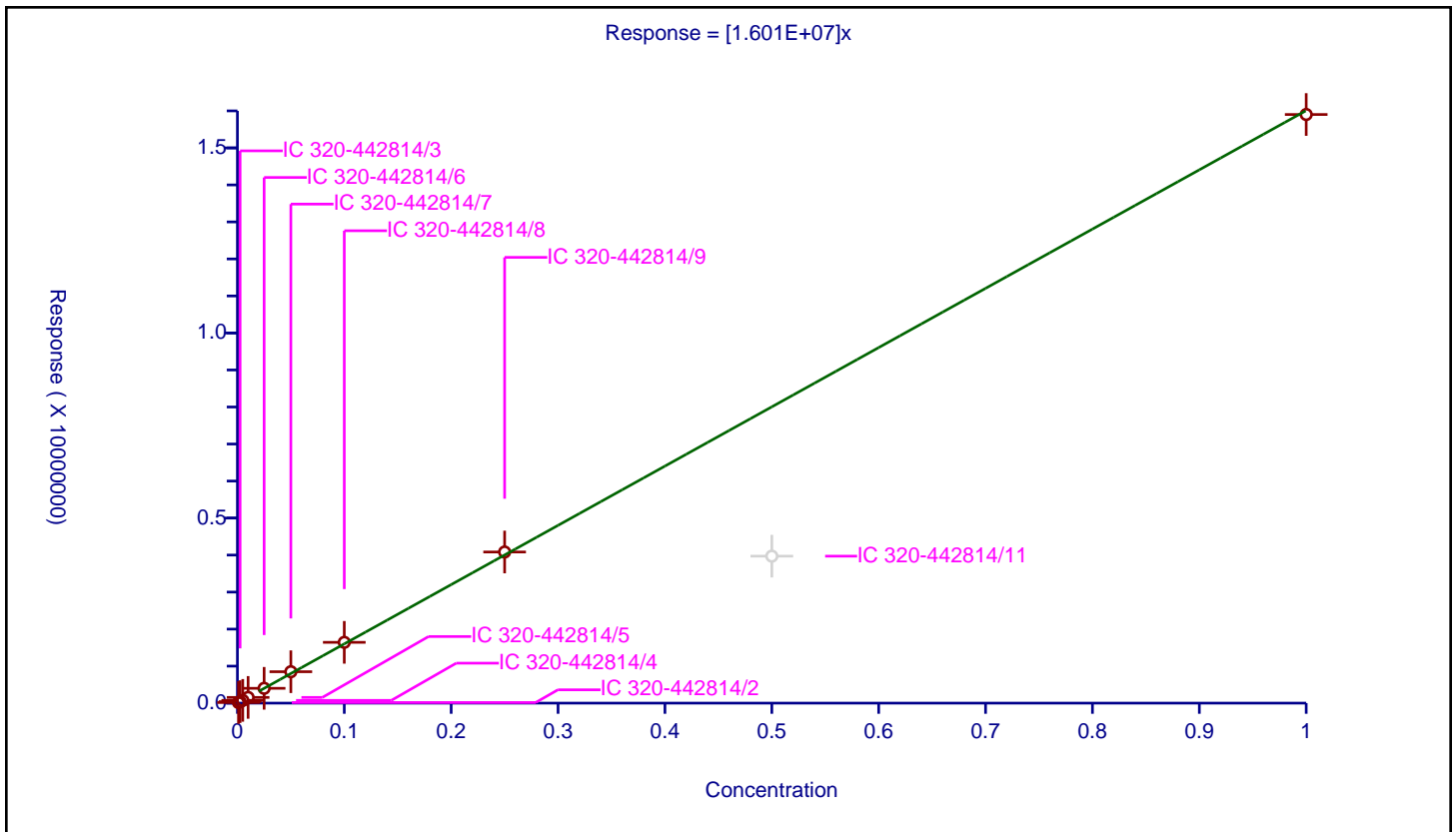
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.601E+07

Error Coefficients	
Standard Error:	52400
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15983.0			15983000.0	Y
2	IC 320-442814/3	0.0025	40279.0			16111600.0	Y
3	IC 320-442814/4	0.005	74525.0			14905000.0	Y
4	IC 320-442814/5	0.01	154419.0			15441900.0	Y
5	IC 320-442814/6	0.025	400267.0			16010680.0	Y
6	IC 320-442814/7	0.05	848428.0			16968560.0	Y
7	IC 320-442814/8	0.1	1642310.0			16423100.0	Y
8	IC 320-442814/9	0.25	4082981.0			16331924.0	Y
9	IC 320-442814/11	0.5	3970862.0			7941724.0	N
10	IC 320-442814/12	1.0	15902147.0			15902147.0	Y



Calibration

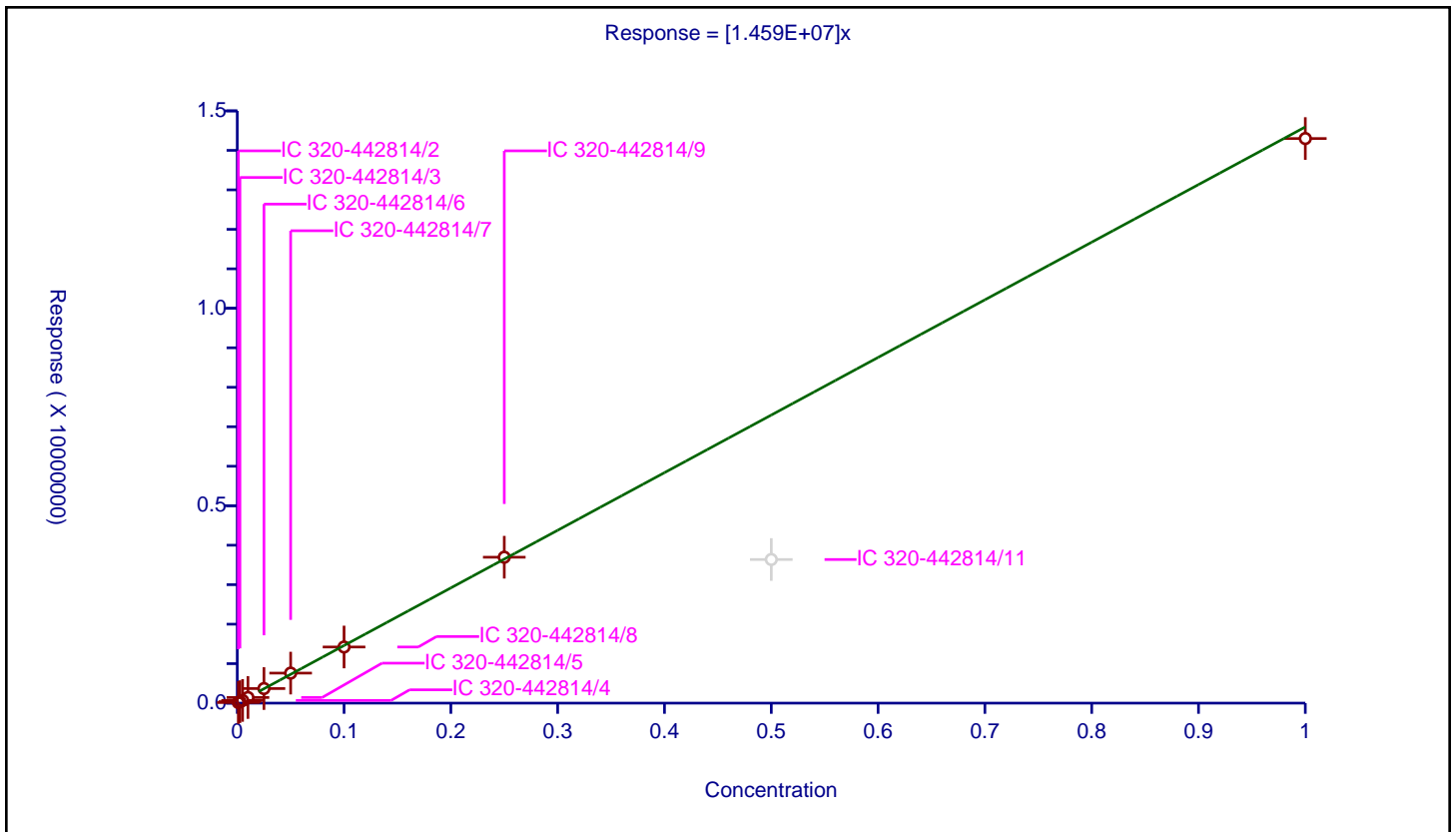
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.459E+07

Error Coefficients	
Standard Error:	106000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15170.0			15170000.0	Y
2	IC 320-442814/3	0.0025	37433.0			14973200.0	Y
3	IC 320-442814/4	0.005	68300.0			13660000.0	Y
4	IC 320-442814/5	0.01	142610.0			14261000.0	Y
5	IC 320-442814/6	0.025	369085.0			14763400.0	Y
6	IC 320-442814/7	0.05	760425.0			15208500.0	Y
7	IC 320-442814/8	0.1	1421707.0			14217070.0	Y
8	IC 320-442814/9	0.25	3695857.0			14783428.0	Y
9	IC 320-442814/11	0.5	3637328.0			7274656.0	N
10	IC 320-442814/12	1.0	14299772.0			14299772.0	Y



Calibration

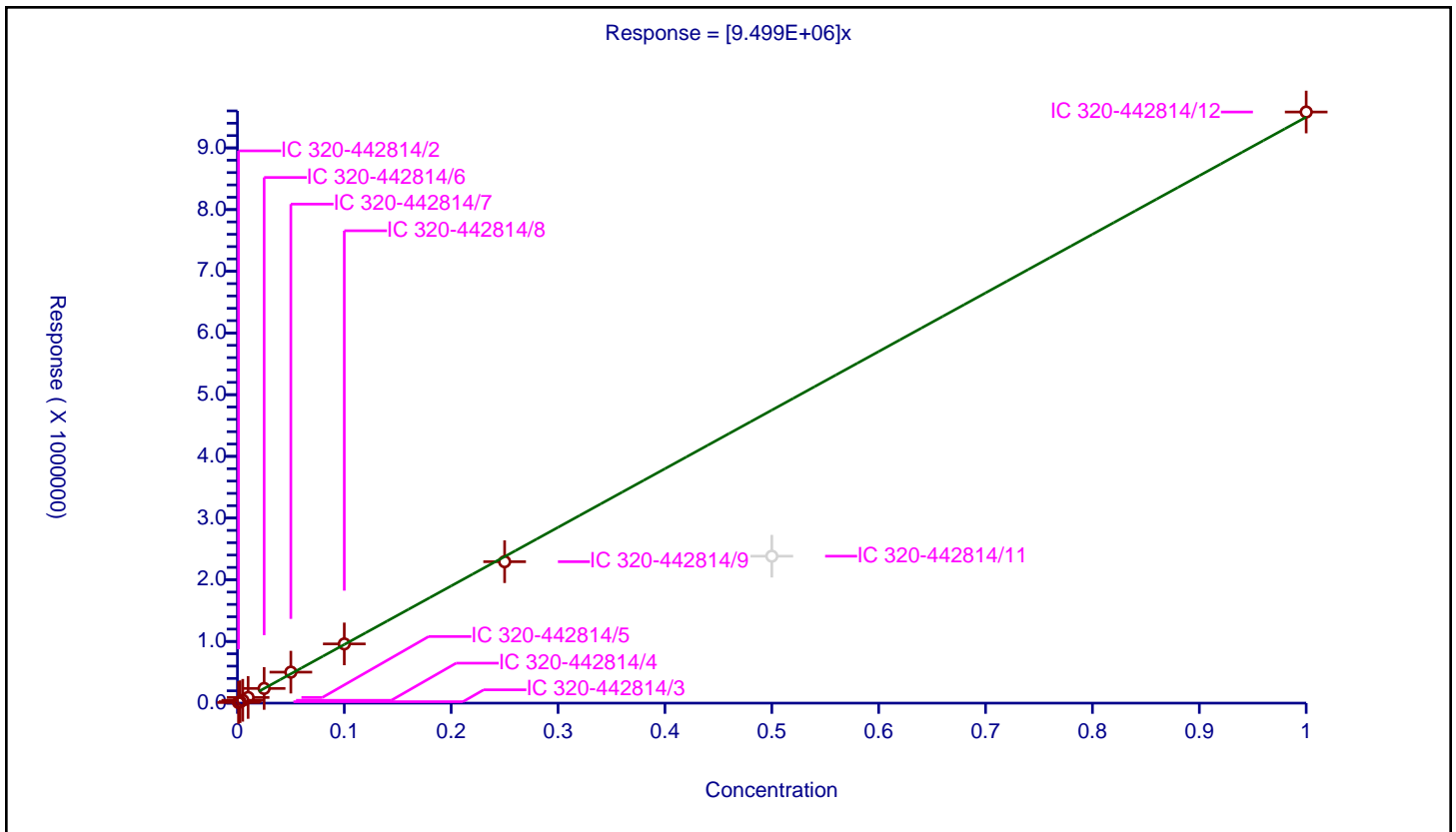
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.499E+06

Error Coefficients	
Standard Error:	42500
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	9844.0			9844000.0	Y
2	IC 320-442814/3	0.0025	23331.0			9332400.0	Y
3	IC 320-442814/4	0.005	46129.0			9225800.0	Y
4	IC 320-442814/5	0.01	91722.0			9172200.0	Y
5	IC 320-442814/6	0.025	237946.0			9517840.0	Y
6	IC 320-442814/7	0.05	502517.0			10050340.0	Y
7	IC 320-442814/8	0.1	959926.0			9599260.0	Y
8	IC 320-442814/9	0.25	2292512.0			9170048.0	Y
9	IC 320-442814/11	0.5	2382221.0			4764442.0	N
10	IC 320-442814/12	1.0	9581725.0			9581725.0	Y



**Calibration**

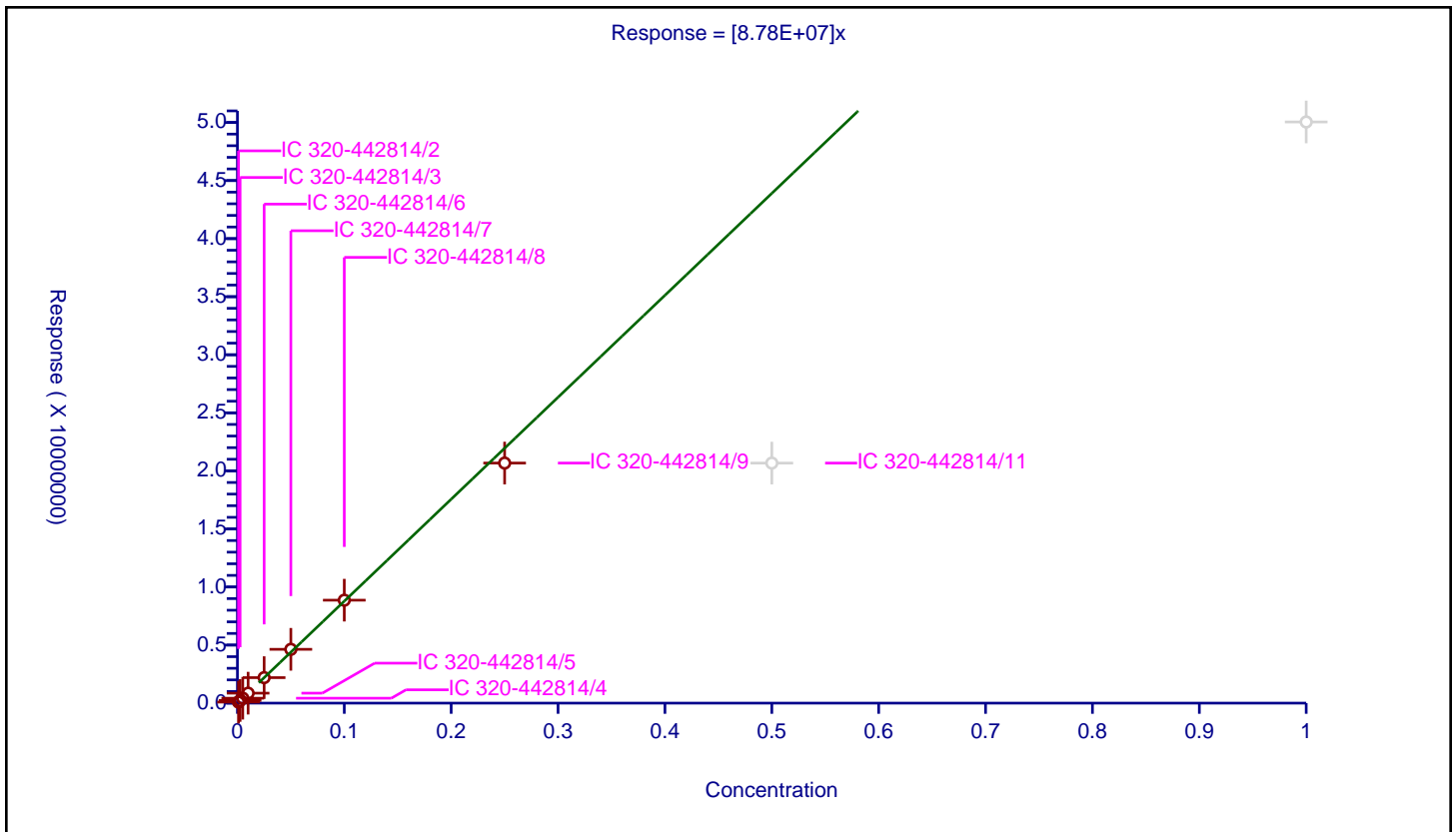
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.78E+07

Error Coefficients	
Standard Error:	492000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	88499.0			88499000.0	Y
2	IC 320-442814/3	0.0025	228069.0			91227600.0	Y
3	IC 320-442814/4	0.005	424082.0			84816400.0	Y
4	IC 320-442814/5	0.01	859891.0			85989100.0	Y
5	IC 320-442814/6	0.025	2196487.0			87859480.0	Y
6	IC 320-442814/7	0.05	4632908.0			92658160.0	Y
7	IC 320-442814/8	0.1	8864472.0			88644720.0	Y
8	IC 320-442814/9	0.25	20672409.0			82689636.0	Y
9	IC 320-442814/11	0.5	20671132.0			41342264.0	N
10	IC 320-442814/12	1.0	50045322.0			50045322.0	N



Calibration

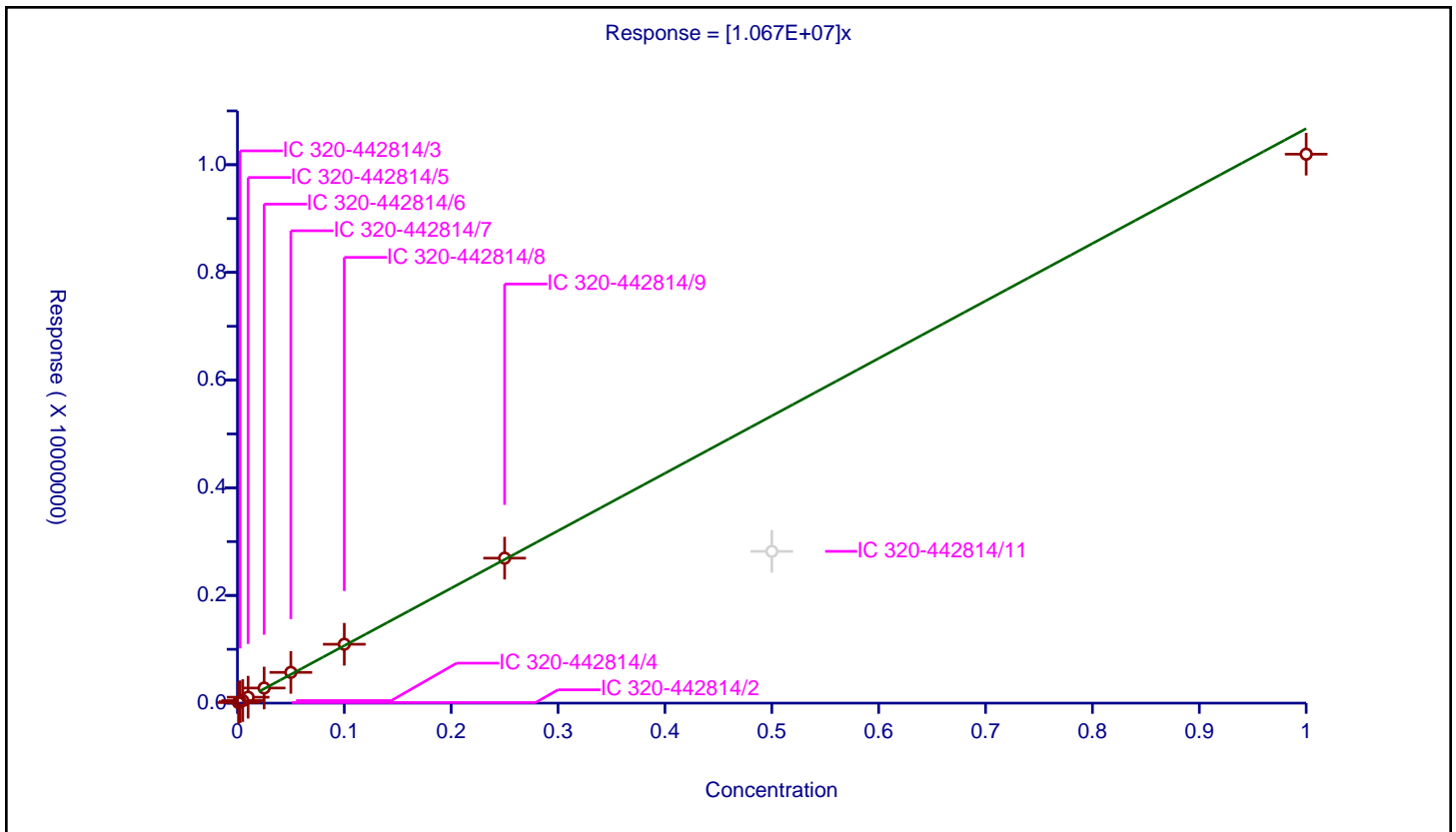
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.067E+07

Error Coefficients	
Standard Error:	169000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	10402.0			10402000.0	Y
2	IC 320-442814/3	0.0025	26687.0			10674800.0	Y
3	IC 320-442814/4	0.005	47009.0			9401800.0	Y
4	IC 320-442814/5	0.01	110038.0			11003800.0	Y
5	IC 320-442814/6	0.025	280903.0			11236120.0	Y
6	IC 320-442814/7	0.05	571056.0			11421120.0	Y
7	IC 320-442814/8	0.1	1093548.0			10935480.0	Y
8	IC 320-442814/9	0.25	2692978.0			10771912.0	Y
9	IC 320-442814/11	0.5	2819121.0			5638242.0	N
10	IC 320-442814/12	1.0	10196243.0			10196243.0	Y





Calibration

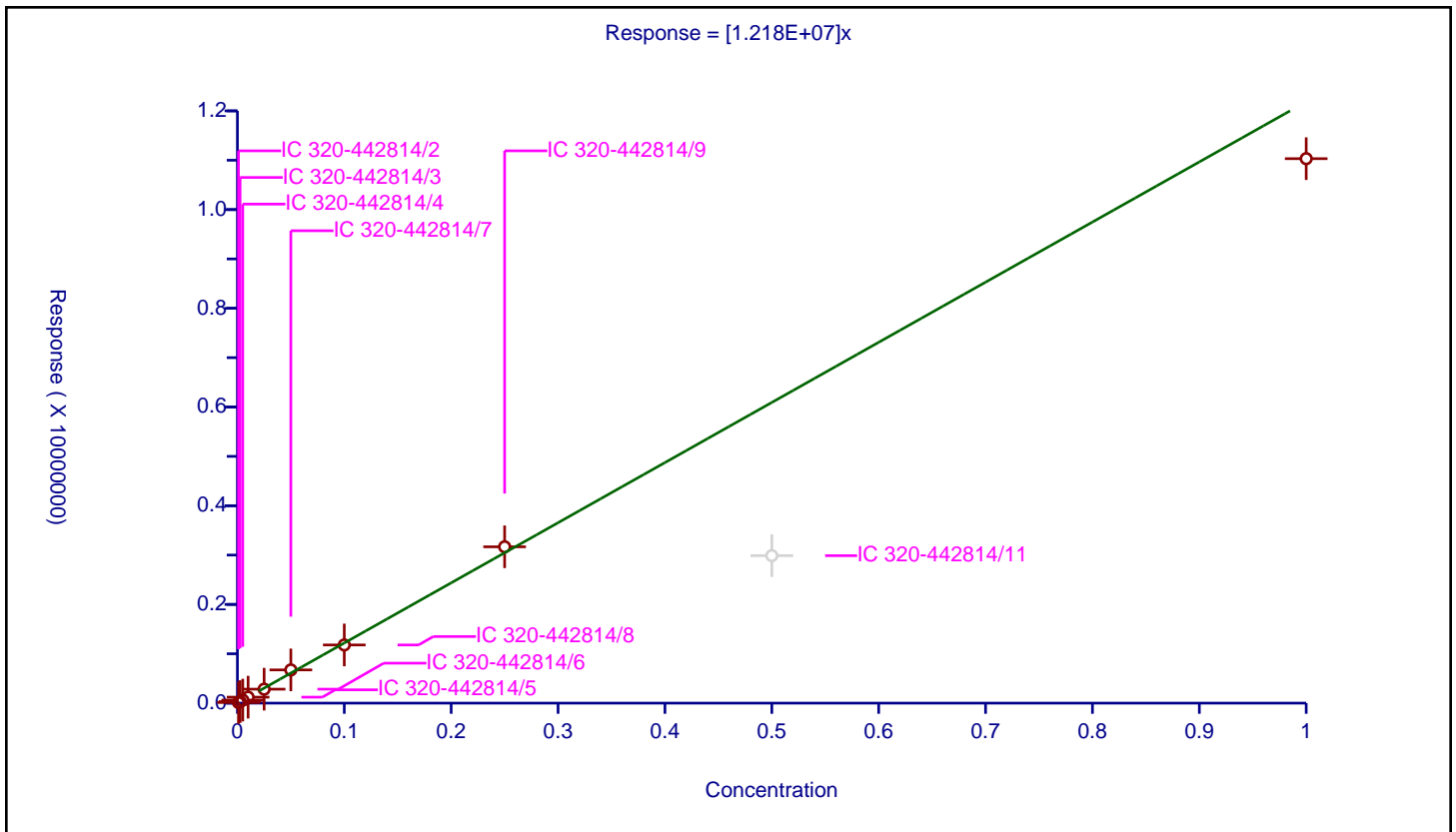
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.218E+07

Error Coefficients	
Standard Error:	411000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	12596.0			12596000.0	Y
2	IC 320-442814/3	0.0025	30927.0			12370800.0	Y
3	IC 320-442814/4	0.005	61518.0			12303600.0	Y
4	IC 320-442814/5	0.01	121134.0			12113400.0	Y
5	IC 320-442814/6	0.025	283125.0			11325000.0	Y
6	IC 320-442814/7	0.05	672980.0			13459600.0	Y
7	IC 320-442814/8	0.1	1179078.0			11790780.0	Y
8	IC 320-442814/9	0.25	3167388.0			12669552.0	Y
9	IC 320-442814/11	0.5	2988166.0			5976332.0	N
10	IC 320-442814/12	1.0	11031957.0			11031957.0	Y



**Calibration**

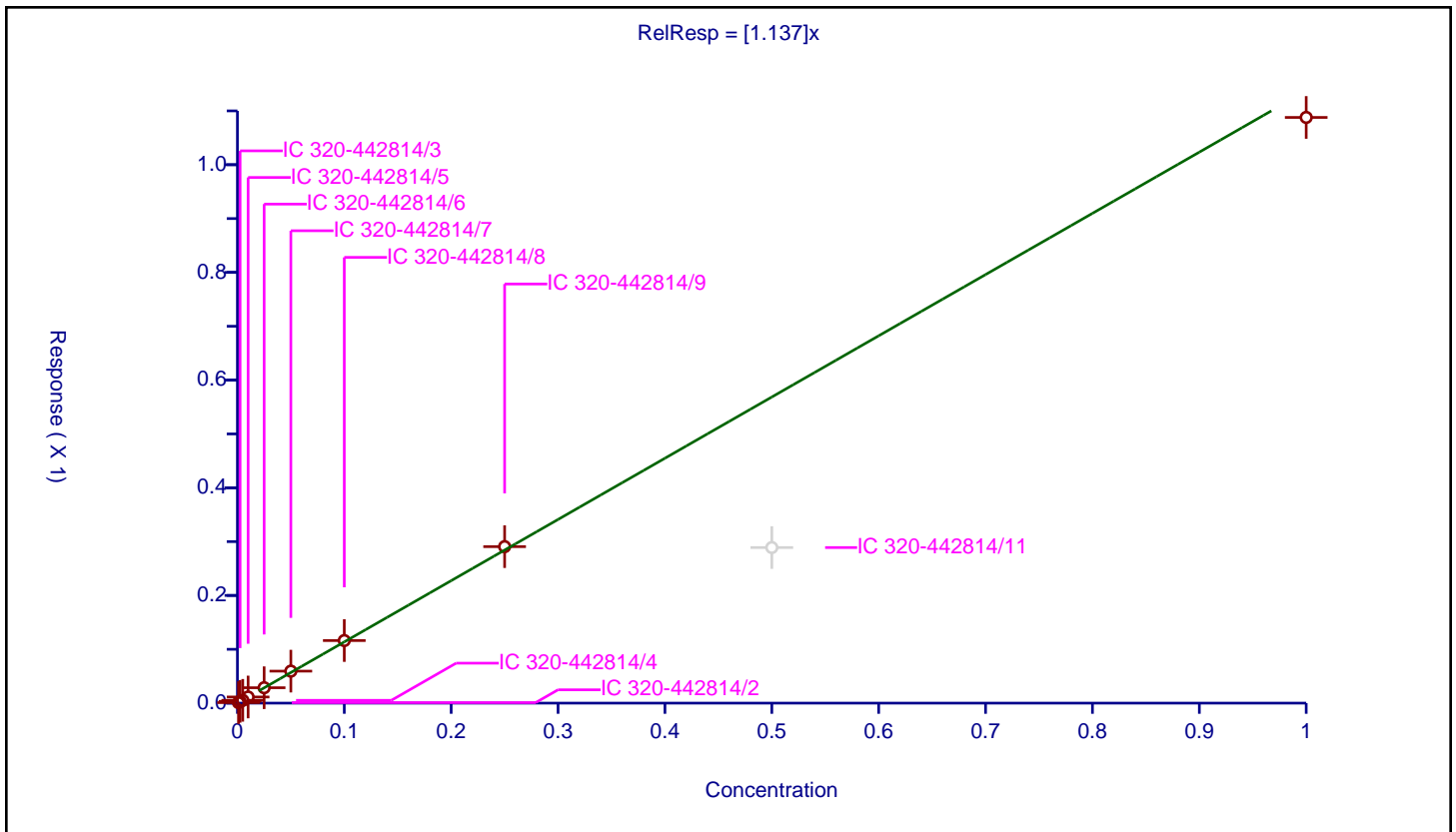
**/ Perfluoro(2-propoxypropanoic) acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.137

Error Coefficients	
Standard Error:	1860000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-442814/2	0.001	0.000987	0.25	1246316.0	0.986708	Y
2	IC 320-442814/3	0.0025	0.003286	0.25	1247368.0	1.314528	Y
3	IC 320-442814/4	0.005	0.005238	0.25	1287578.0	1.047587	Y
4	IC 320-442814/5	0.01	0.011387	0.25	1224836.0	1.138724	Y
5	IC 320-442814/6	0.025	0.028624	0.25	1245930.0	1.144976	Y
6	IC 320-442814/7	0.05	0.059424	0.25	1273217.0	1.188486	Y
7	IC 320-442814/8	0.1	0.116249	0.25	1191322.0	1.162486	Y
8	IC 320-442814/9	0.25	0.290655	0.25	1220443.0	1.162619	Y
9	IC 320-442814/11	0.5	0.288945	0.25	1224539.0	0.57789	N
10	IC 320-442814/12	1.0	1.087854	0.25	1153177.0	1.087854	Y



Calibration

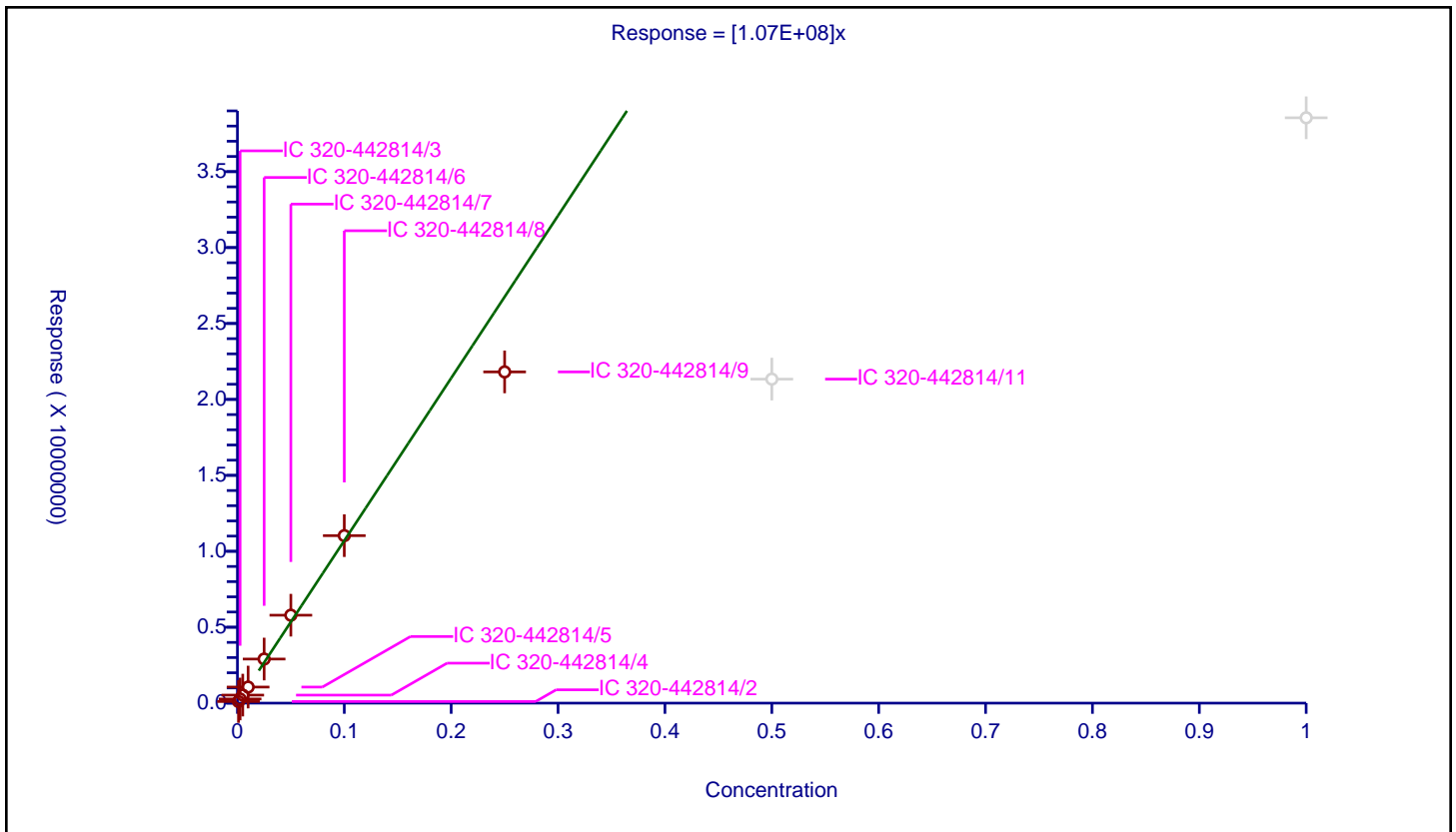
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.07E+08

Error Coefficients	
Standard Error:	1880000
Relative Standard Error:	8.4
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	106019.0			106019000.0	Y
2	IC 320-442814/3	0.0025	272132.0			108852800.0	Y
3	IC 320-442814/4	0.005	529239.0			105847800.0	Y
4	IC 320-442814/5	0.01	1058898.0			105889800.0	Y
5	IC 320-442814/6	0.025	2904319.0			116172760.0	Y
6	IC 320-442814/7	0.05	5790043.0			115800860.0	Y
7	IC 320-442814/8	0.1	11028616.0			110286160.0	Y
8	IC 320-442814/9	0.25	21811684.0			87246736.0	Y
9	IC 320-442814/11	0.5	21336363.0			42672726.0	N
10	IC 320-442814/12	1.0	38545187.0			38545187.0	N



**Calibration**

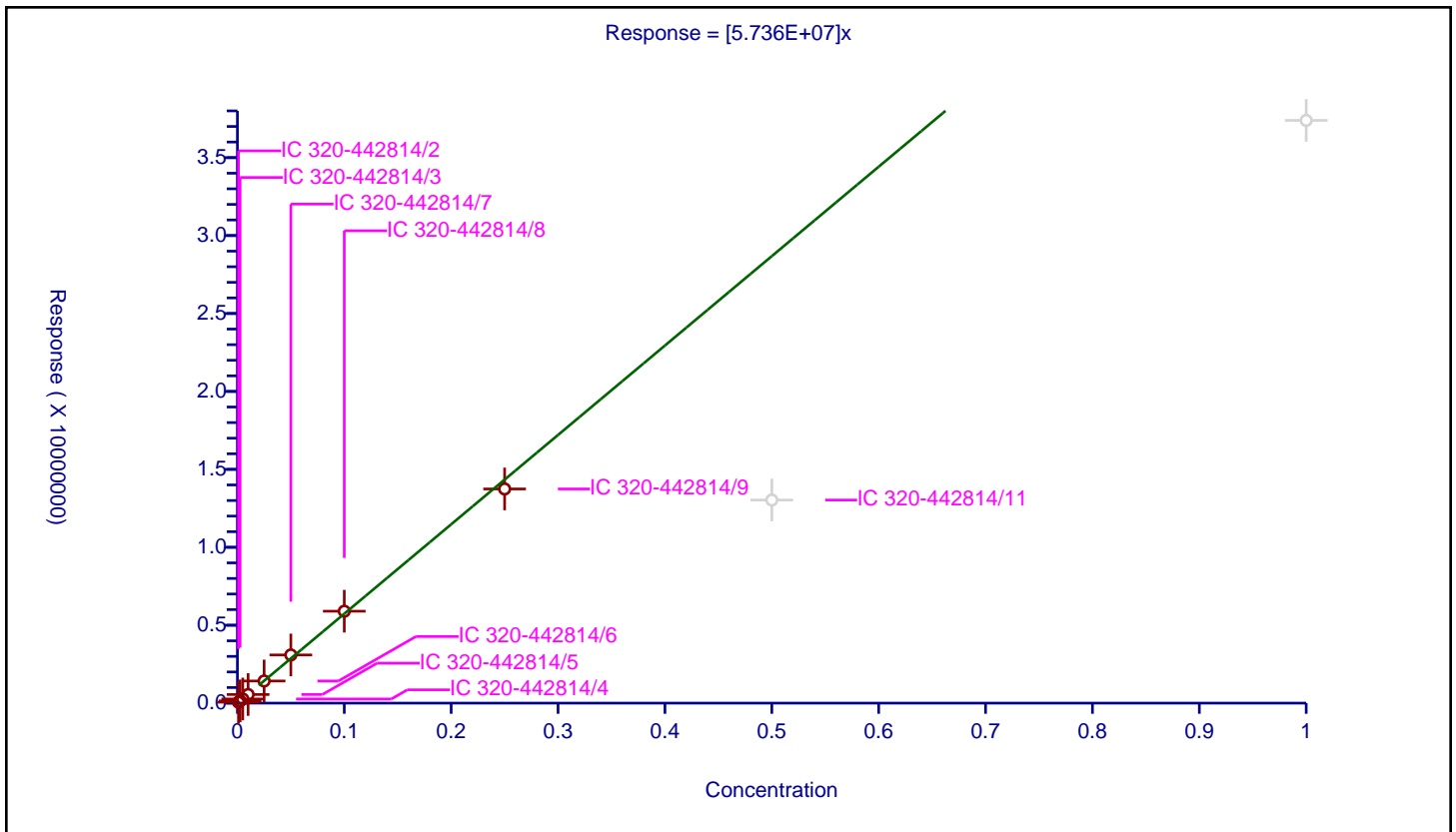
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.736E+07

Error Coefficients	
Standard Error:	250000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	59929.0			59929000.0	Y
2	IC 320-442814/3	0.0025	144402.0			57760800.0	Y
3	IC 320-442814/4	0.005	266416.0			53283200.0	Y
4	IC 320-442814/5	0.01	552501.0			55250100.0	Y
5	IC 320-442814/6	0.025	1421503.0			56860120.0	Y
6	IC 320-442814/7	0.05	3092904.0			61858080.0	Y
7	IC 320-442814/8	0.1	5897426.0			58974260.0	Y
8	IC 320-442814/9	0.25	13741477.0			54965908.0	Y
9	IC 320-442814/11	0.5	13032067.0			26064134.0	N
10	IC 320-442814/12	1.0	37389456.0			37389456.0	N



Calibration

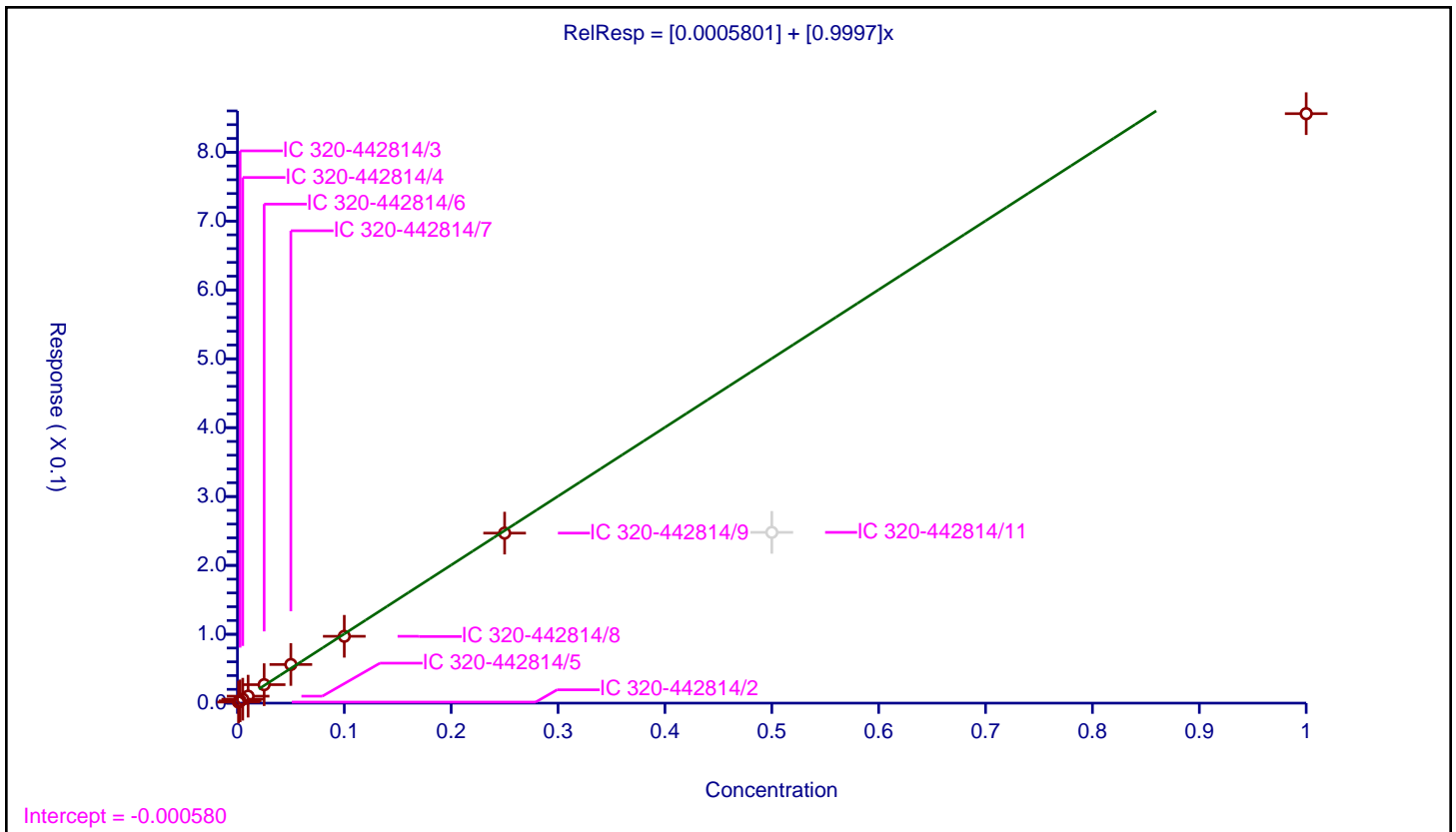
/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0005801
Slope:	0.9997

Error Coefficients	
Standard Error:	6580000
Relative Standard Error:	8.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-442814/2	0.001	0.001537	0.25	6075553.0	1.537144	Y
2	IC 320-442814/3	0.0025	0.003319	0.25	5402471.0	1.3278	Y
3	IC 320-442814/4	0.005	0.005703	0.25	5843429.0	1.140666	Y
4	IC 320-442814/5	0.01	0.010131	0.25	6138902.0	1.013145	Y
5	IC 320-442814/6	0.025	0.026802	0.25	5909032.0	1.072069	Y
6	IC 320-442814/7	0.05	0.056092	0.25	5716892.0	1.121848	Y
7	IC 320-442814/8	0.1	0.097049	0.25	5640245.0	0.970491	Y
8	IC 320-442814/9	0.25	0.246898	0.25	5662276.0	0.987592	Y
9	IC 320-442814/11	0.5	0.247955	0.25	5303619.0	0.49591	N
10	IC 320-442814/12	1.0	0.855993	0.25	4753249.0	0.855993	Y



**Calibration**

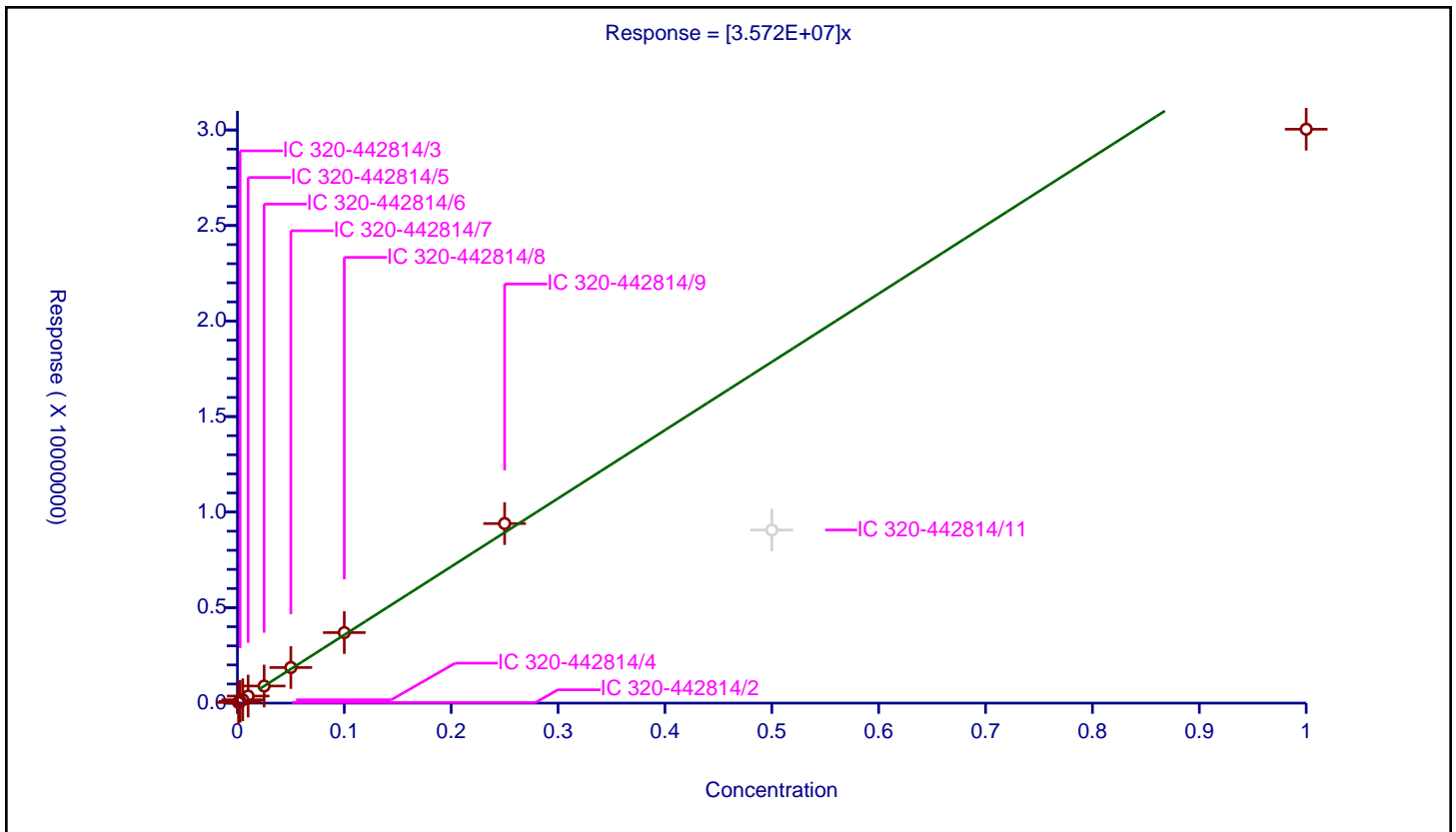
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.572E+07

Error Coefficients	
Standard Error:	2020000
Relative Standard Error:	6.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	34522.0			34522000.0	Y
2	IC 320-442814/3	0.0025	93165.0			37266000.0	Y
3	IC 320-442814/4	0.005	175496.0			35099200.0	Y
4	IC 320-442814/5	0.01	369602.0			36960200.0	Y
5	IC 320-442814/6	0.025	895275.0			35811000.0	Y
6	IC 320-442814/7	0.05	1863519.0			37270380.0	Y
7	IC 320-442814/8	0.1	3691742.0			36917420.0	Y
8	IC 320-442814/9	0.25	9399925.0			37599700.0	Y
9	IC 320-442814/11	0.5	9061574.0			18123148.0	N
10	IC 320-442814/12	1.0	30040413.0			30040413.0	Y



Calibration

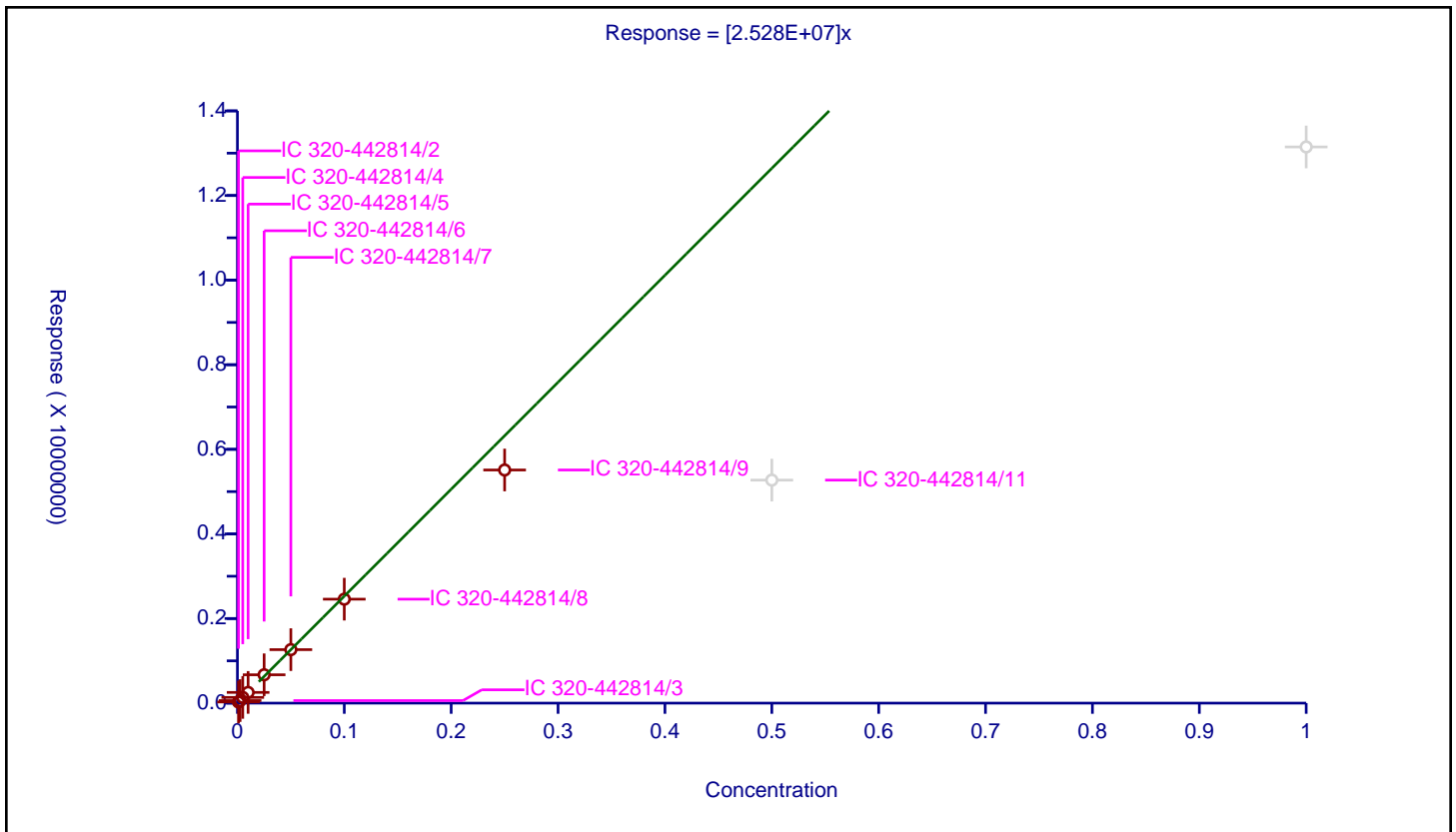
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.528E+07

Error Coefficients	
Standard Error:	308000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	27058.0			27058000.0	Y
2	IC 320-442814/3	0.0025	60281.0			24112400.0	Y
3	IC 320-442814/4	0.005	135286.0			27057200.0	Y
4	IC 320-442814/5	0.01	253267.0			25326700.0	Y
5	IC 320-442814/6	0.025	670411.0			26816440.0	Y
6	IC 320-442814/7	0.05	1264482.0			25289640.0	Y
7	IC 320-442814/8	0.1	2457517.0			24575170.0	Y
8	IC 320-442814/9	0.25	5510979.0			22043916.0	Y
9	IC 320-442814/11	0.5	5271992.0			10543984.0	N
10	IC 320-442814/12	1.0	13147764.0			13147764.0	N



Calibration

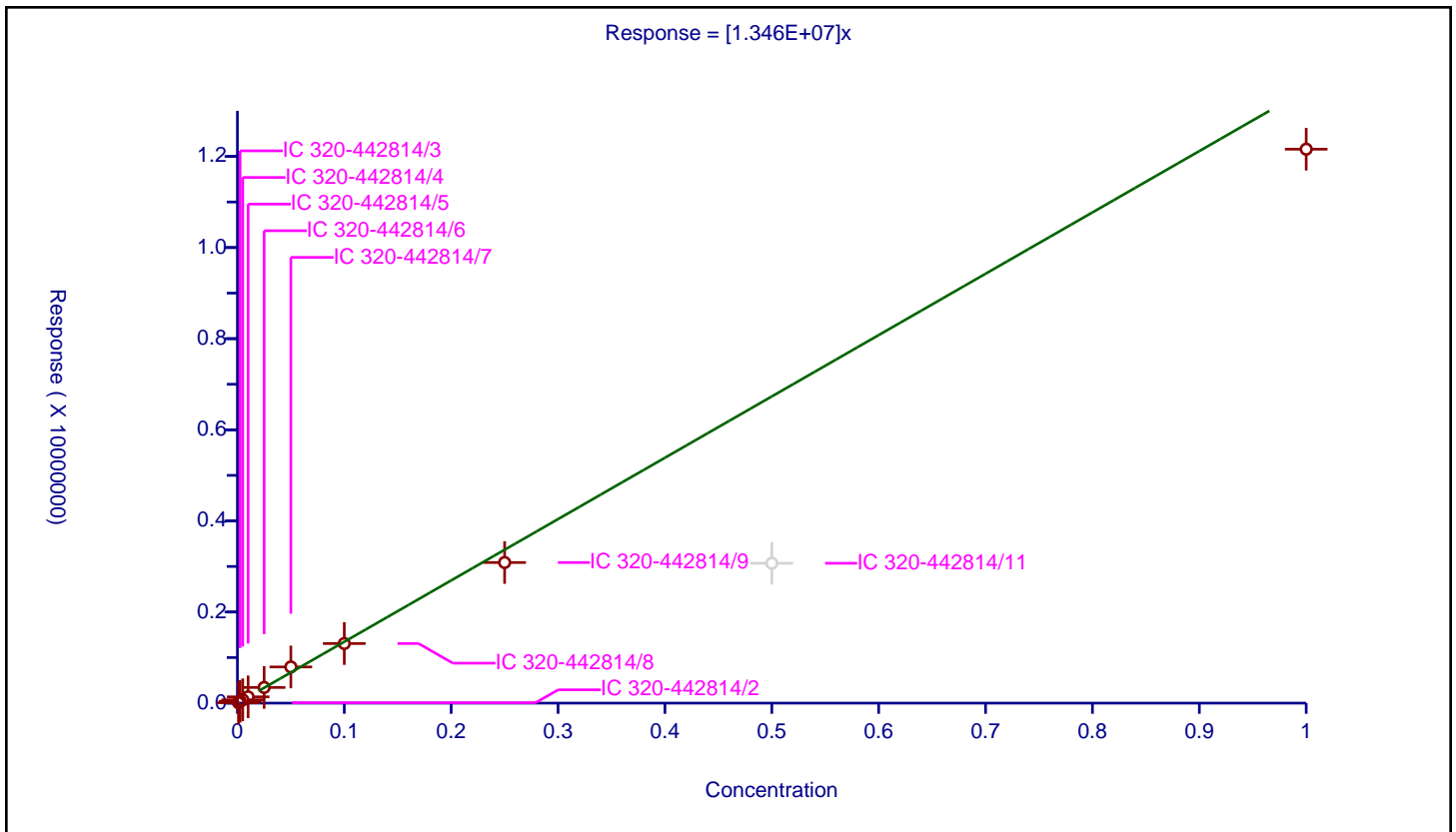
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.346E+07

Error Coefficients	
Standard Error:	474000
Relative Standard Error:	15.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	9462.0			9462000.0	Y
2	IC 320-442814/3	0.0025	40479.0			16191600.0	Y
3	IC 320-442814/4	0.005	72641.0			14528200.0	Y
4	IC 320-442814/5	0.01	137749.0			13774900.0	Y
5	IC 320-442814/6	0.025	343798.0			13751920.0	Y
6	IC 320-442814/7	0.05	794348.0			15886960.0	Y
7	IC 320-442814/8	0.1	1307902.0			13079020.0	Y
8	IC 320-442814/9	0.25	3086735.0			12346940.0	Y
9	IC 320-442814/11	0.5	3070122.0			6140244.0	N
10	IC 320-442814/12	1.0	12159262.0			12159262.0	Y





**Calibration**

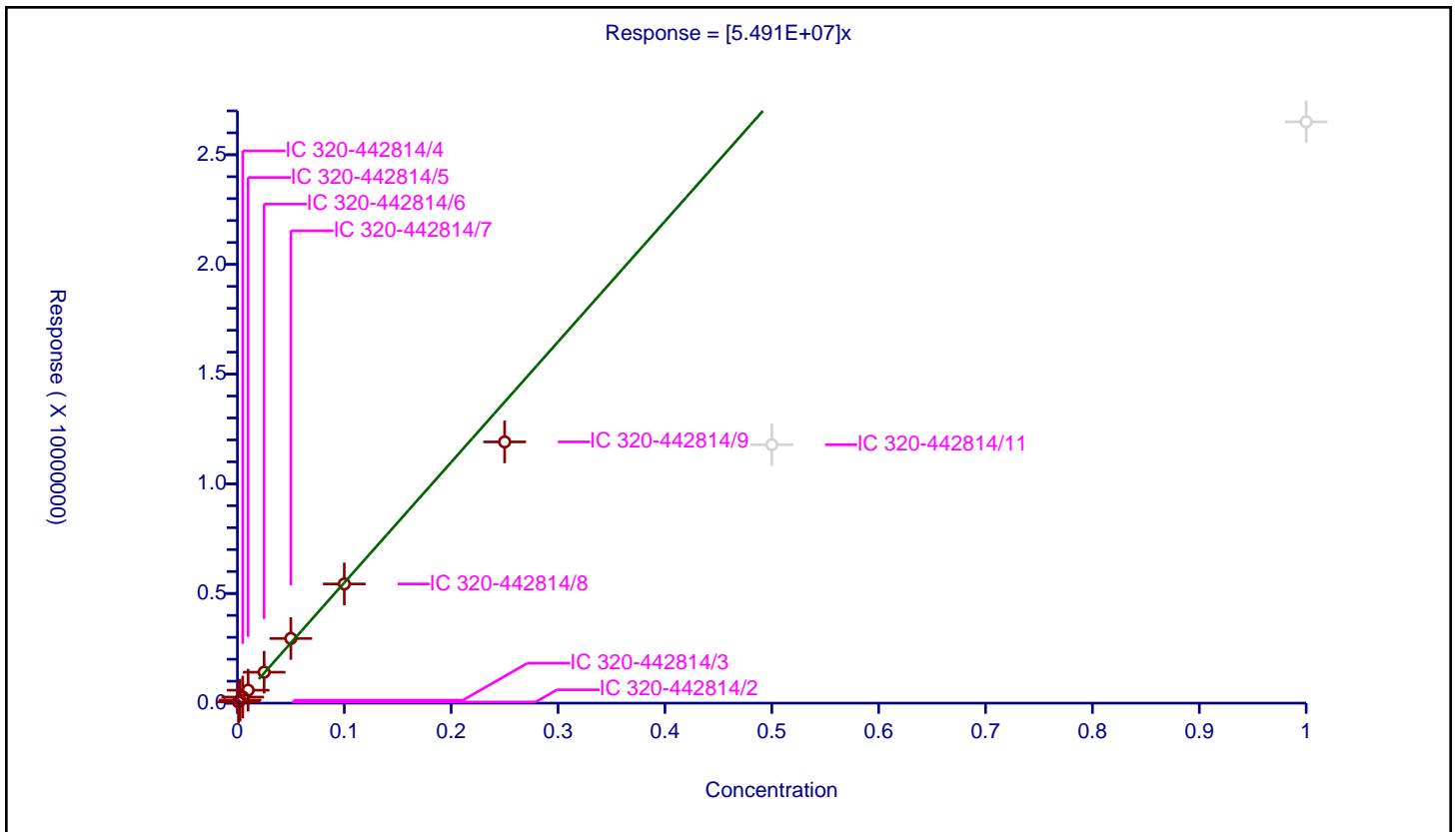
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	5.491E+07

Error Coefficients	
<b>Standard Error:</b>	692000
<b>Relative Standard Error:</b>	6.6
<b>Correlation Coefficient:</b>	0.996
<b>Coefficient of Determination (Adjusted):</b>	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	53143.0			53143000.0	Y
2	IC 320-442814/3	0.0025	136249.0			54499600.0	Y
3	IC 320-442814/4	0.005	276588.0			55317600.0	Y
4	IC 320-442814/5	0.01	589903.0			58990300.0	Y
5	IC 320-442814/6	0.025	1410907.0			56436280.0	Y
6	IC 320-442814/7	0.05	2947292.0			58945840.0	Y
7	IC 320-442814/8	0.1	5433377.0			54333770.0	Y
8	IC 320-442814/9	0.25	11910026.0			47640104.0	Y
9	IC 320-442814/11	0.5	11781335.0			23562670.0	N
10	IC 320-442814/12	1.0	26500543.0			26500543.0	N



**Calibration**

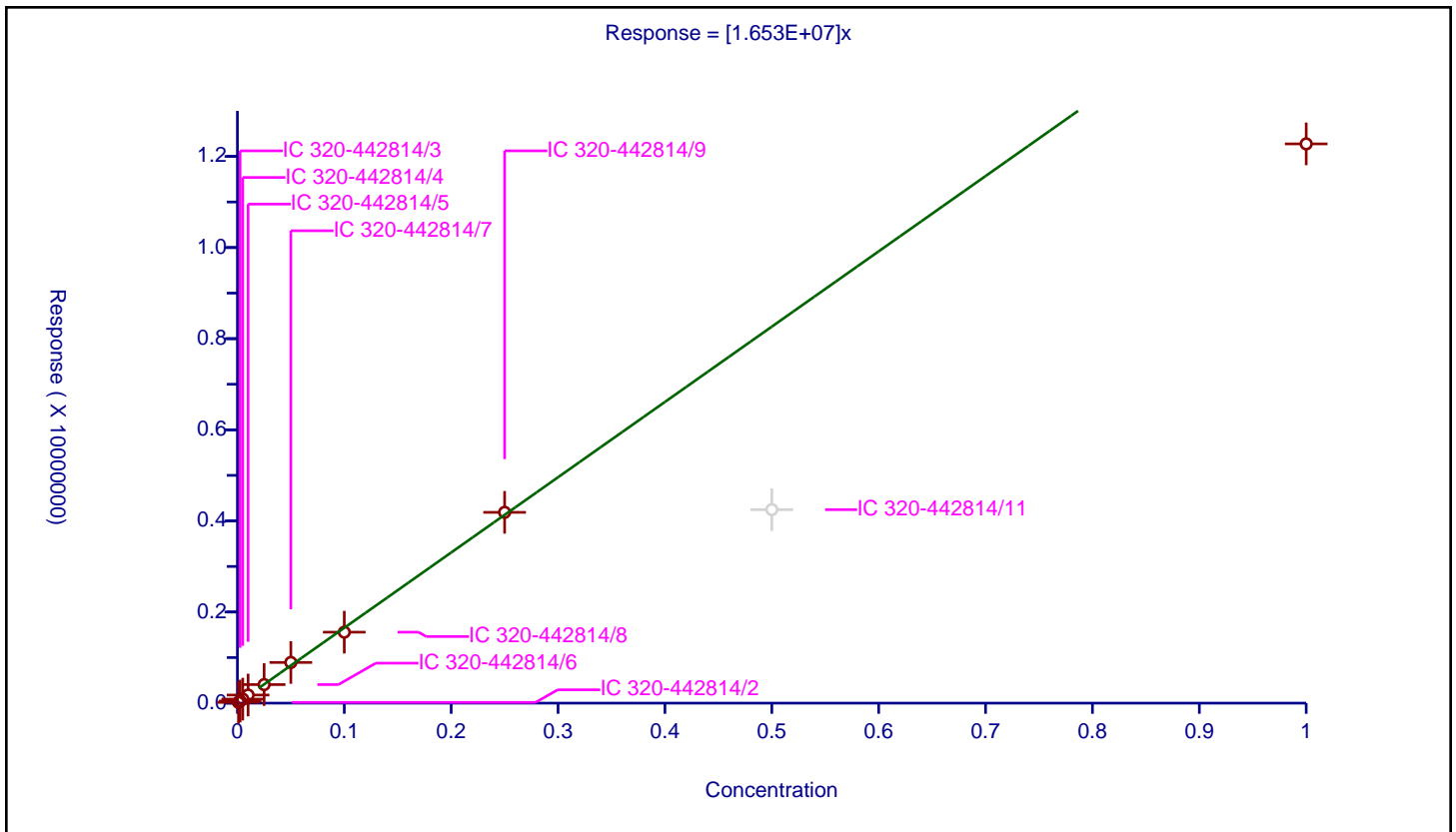
/ PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.653E+07

Error Coefficients	
Standard Error:	1500000
Relative Standard Error:	11.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	16387.0			16387000.0	Y
2	IC 320-442814/3	0.0025	45488.0			18195200.0	Y
3	IC 320-442814/4	0.005	88224.0			17644800.0	Y
4	IC 320-442814/5	0.01	177794.0			17779400.0	Y
5	IC 320-442814/6	0.025	407094.0			16283760.0	Y
6	IC 320-442814/7	0.05	892902.0			17858040.0	Y
7	IC 320-442814/8	0.1	1557836.0			15578360.0	Y
8	IC 320-442814/9	0.25	4187794.0			16751176.0	Y
9	IC 320-442814/11	0.5	4246762.0			8493524.0	N
10	IC 320-442814/12	1.0	12275588.0			12275588.0	Y



Calibration

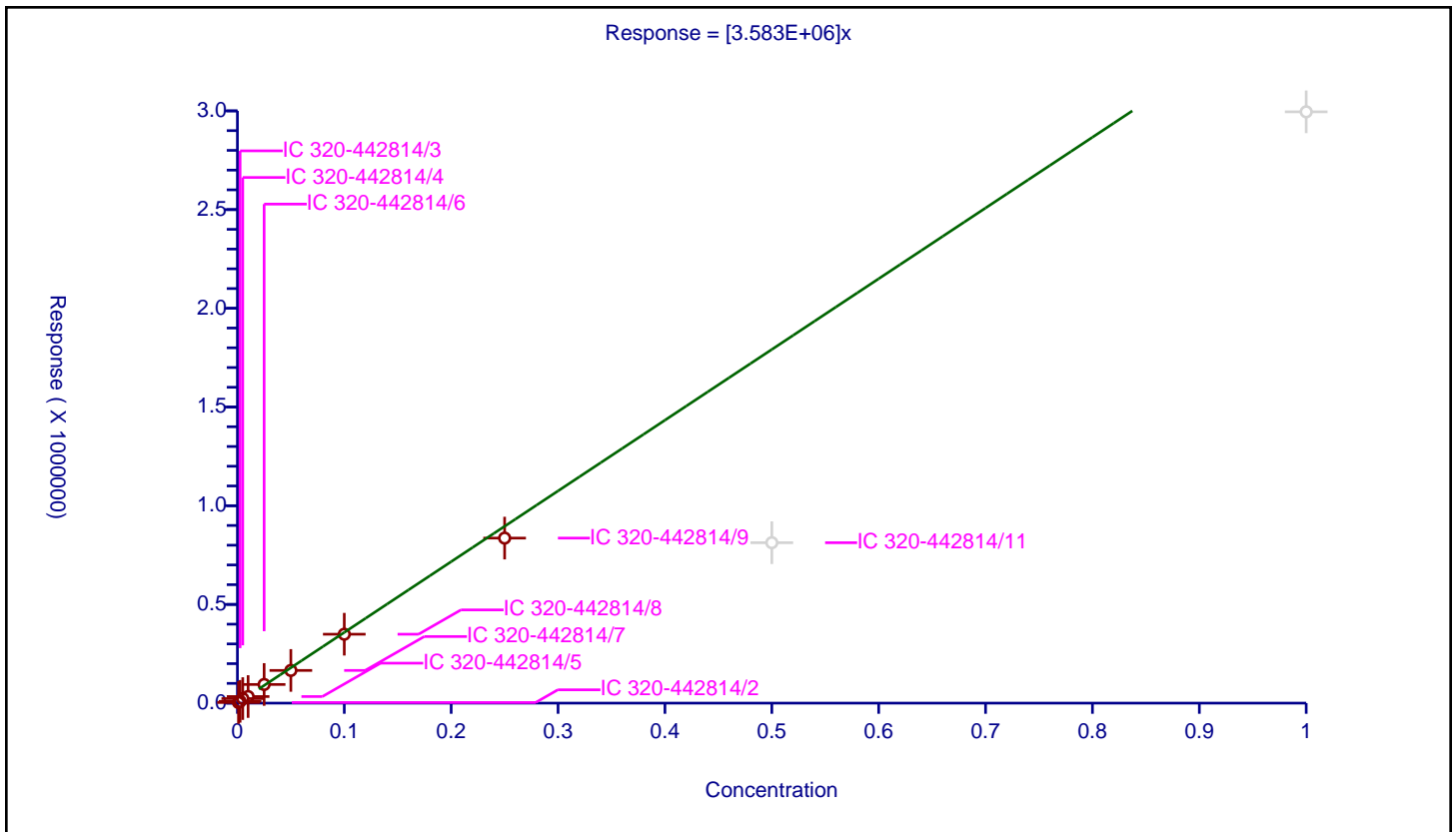
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.583E+06

Error Coefficients	
Standard Error:	23600
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	3214.0			3214000.0	Y
2	IC 320-442814/3	0.0025	8961.0			3584400.0	Y
3	IC 320-442814/4	0.005	23004.0			4600800.0	Y
4	IC 320-442814/5	0.01	33386.0			3338600.0	Y
5	IC 320-442814/6	0.025	94489.0			3779560.0	Y
6	IC 320-442814/7	0.05	165558.0			3311160.0	Y
7	IC 320-442814/8	0.1	349151.0			3491510.0	Y
8	IC 320-442814/9	0.25	835930.0			3343720.0	Y
9	IC 320-442814/11	0.5	812682.0			1625364.0	N
10	IC 320-442814/12	1.0	2995282.0			2995282.0	N



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-442814/14 Calibration Date: 12/15/2020 23:43  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2020.12.15\_TB3\_ICAL\_016.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	10827840		87.6	100	-12.4	30.0
R-EVE	Ave	5024931	5054840		101	100	0.6	50.0
R-PSDA	Ave	2553594	2661850		104	100	4.2	50.0
Hydrolyzed PSDA	Ave	11384923	11246810		98.8	100	-1.2	50.0
PMPA	Ave	11489461	11094870		96.6	100	-3.4	30.0
NVHOS	Ave	16008657	16011400		100	100	0.0	30.0
PFO2HxA	Ave	14592930	13898860		95.2	100	-4.8	30.0
PEPA	Ave	9499290	9739390		103	100	2.5	30.0
PES	Ave	87798012	86505850		98.5	100	-1.5	30.0
PFECA B	Ave	10671475	10499610		98.4	100	-1.6	30.0
PFO3OA	Ave	12184521	12869760		106	100	5.6	30.0
HFPO-DA	AveID	1.137	1.085		95.4	100	-4.6	40.0
R-PSDCA	Ave	107014490	108538780		101	100	1.4	30.0
Hydro-EVE Acid	Ave	57360184	55149970		96.1	100	-3.9	30.0
Perfluoroheptanoic acid	L2ID		0.9436		93.8	100	-6.2	40.0
Hydro-PS Acid	Ave	35720701	35717780		100	100	-0.0	30.0
PFECA G	Ave	25284933	23909050		94.6	100	-5.4	30.0
PFO4DA	Ave	13464534	10804370		80.2	100	-19.8	30.0
EVE Acid	Ave	54913312	49003310		89.2	100	-10.8	30.0
PS Acid	Ave	16528147	16700370		101	100	1.0	30.0
PFO5DA	Ave	3582969	3668410		102	100	2.4	50.0
13C3 HFPO-DA	Ave	4928972	4984044		253	250	1.1	50.0
13C4 PFHpA	Ave	22729800	22632796		249	250	-0.4	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_016.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 15-Dec-2020 23:43:03 ALS Bottle#: 16 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 11:02:03 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1641

First Level Reviewer: contrerese Date: 16-Dec-2020 10:25:47

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.312	2.785	0.527		1082784	0.0876		2082		M
2 R-EVE										M
405.00 > 217.00	6.874	6.657	0.217		505484	0.1006		9912		M
3 R-PSDA										M
440.90 > 241.00	6.950	6.746	0.204		266185	0.1042		10270		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.032	6.860	0.172		1124681	0.0988		31390		M
5 PMPA										
229.00 > 185.00	7.046	6.885	0.161		1109487	0.0966		1532		
6 NVHOS										
297.00 > 135.00	7.582	7.457	0.125		1601140	0.1000		23362		
7 PFO2HxA										
245.00 > 85.00	8.155	8.094	0.061		1389886	0.0952		11838		
8 PEPA										
278.90 > 234.90	8.777	8.739	0.038		973939	0.1025		4835		
9 PES										
314.90 > 135.00	9.070	9.044	0.026		8650585	0.0985		169090		
10 PFECA B										
295.00 > 201.00	9.286	9.279	0.007		1049961	0.0984		37869		
11 PFO3OA										
310.90 > 85.00	9.531	9.516	0.015		1286976	0.1056		16675		
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.613	9.599	0.014		1246011	0.2528		101 36202		
13 HPFO-DA										
285.00 > 169.00	9.641	9.627	0.015	1.003	540770	0.0954		15875		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA	397.00 > 217.00	9.999	9.957	0.042	10853878	0.1014			192938	
16 Hydro-EVE Acid	427.00 > 282.90	10.028	10.013	0.015	5514997	0.0961			71506	
18 Perfluoroheptanoic acid	363.00 > 319.00	10.028	10.013	0.015	1.000	2135720	0.0938	Target=0.00	31988	
	363.00 > 169.00	10.028	10.013	0.015	1.000	1287609	1.66(0.00-0.00)		28940	
D 15 13C4 PFHpA	367.00 > 322.00	10.028	10.013	0.015	5658199	0.2489		99.6	169815	
17 Hydro-PS Acid	463.00 > 262.90	10.056	10.042	0.014	3571778	0.1000			66064	
19 PFECA G	378.90 > 184.90	10.161	10.145	0.016	2390905	0.0946			75773	
20 PFO4DA	376.90 > 85.00	10.288	10.269	0.019	1080437	0.0802			10489	
21 PS Acid	443.00 > 146.90	10.362	10.344	0.018	1670037	0.1010			41076	
22 EVE Acid	407.00 > 262.90	10.362	10.344	0.018	4900331	0.0892			95825	
23 TAF	442.90 > 85.00	10.854	10.847	0.007	366841	0.1024			931	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_016.d

Injection Date: 15-Dec-2020 23:43:03

Instrument ID: A7\_N

Lims ID: ICV

Client ID:

Operator ID: abservice

ALS Bottle#: 16

Worklist Smp#: 14

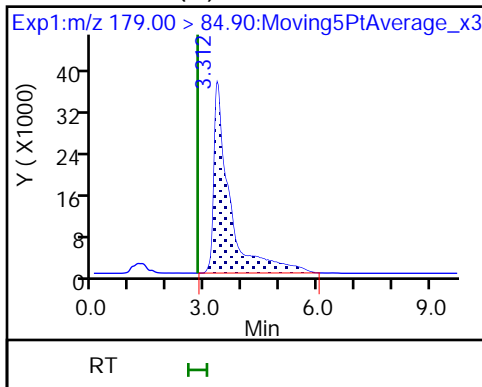
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

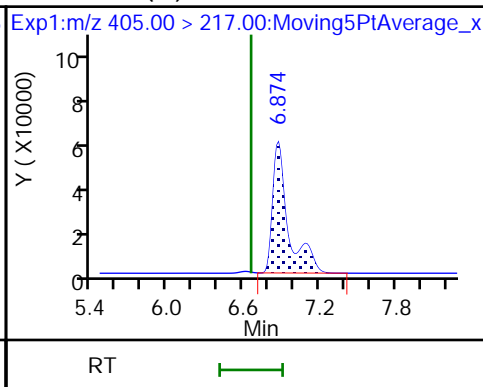
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

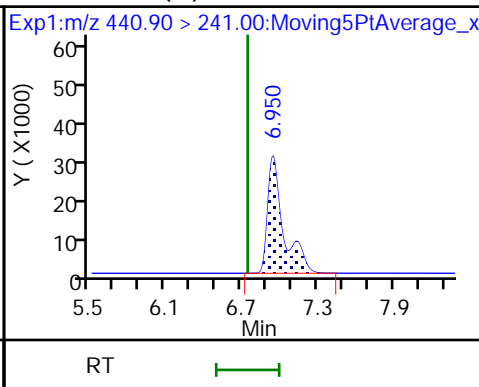
1 PFMOAA (M)



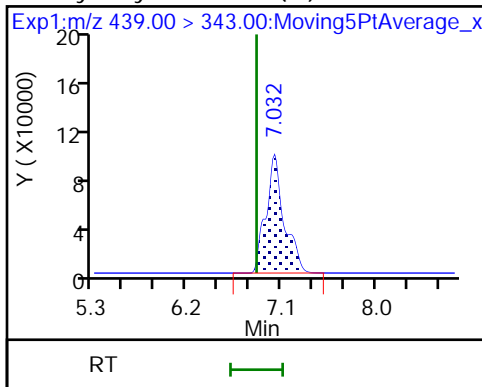
2 R-EVE (M)



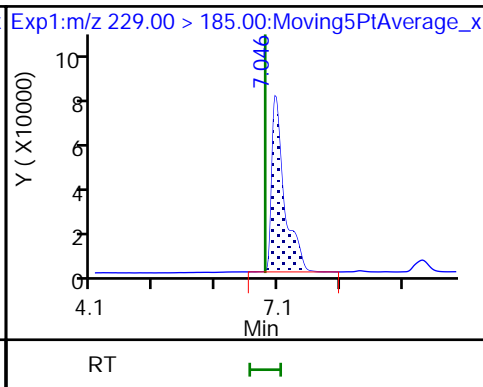
3 R-PSDA (M)



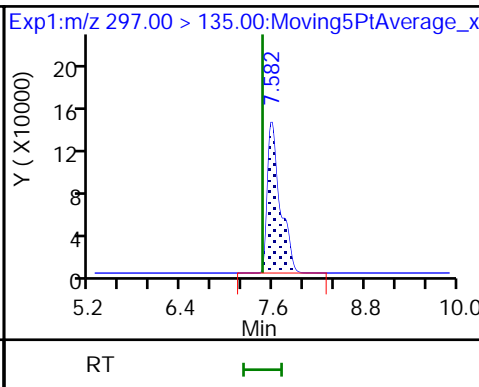
4 Hydrolyzed PSDA (M)



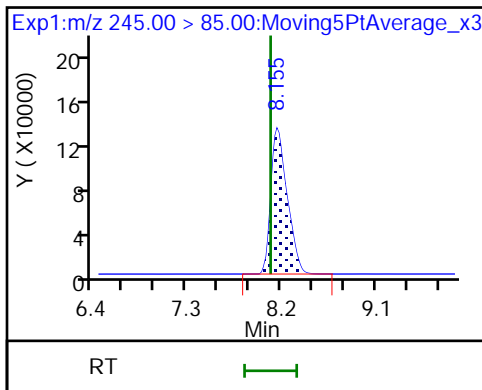
5 PMPA



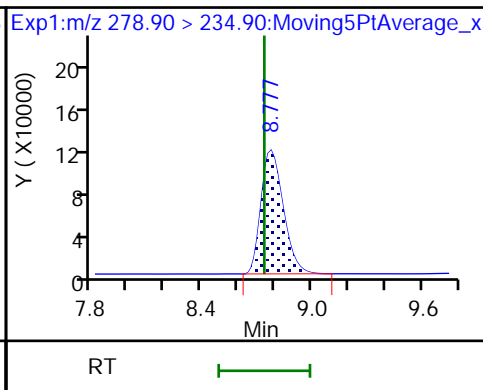
6 NVHOS



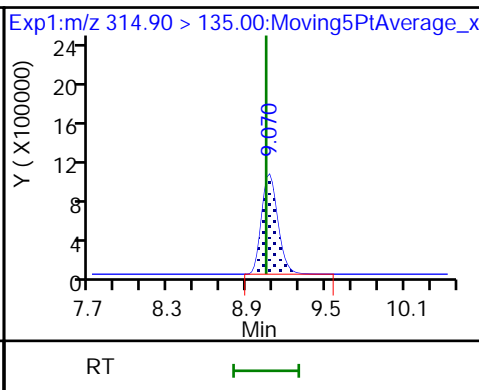
7 PFO2HxA



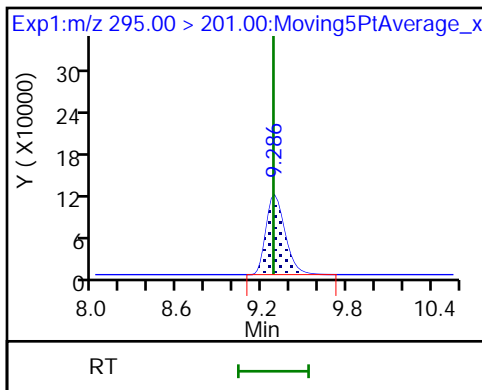
8 PEPA



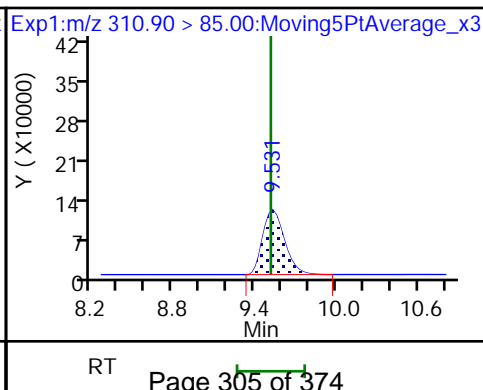
9 PES



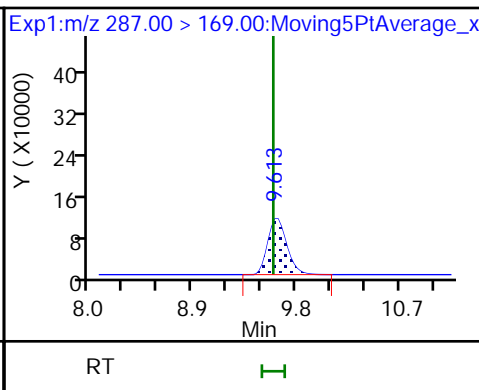
10 PFECA B

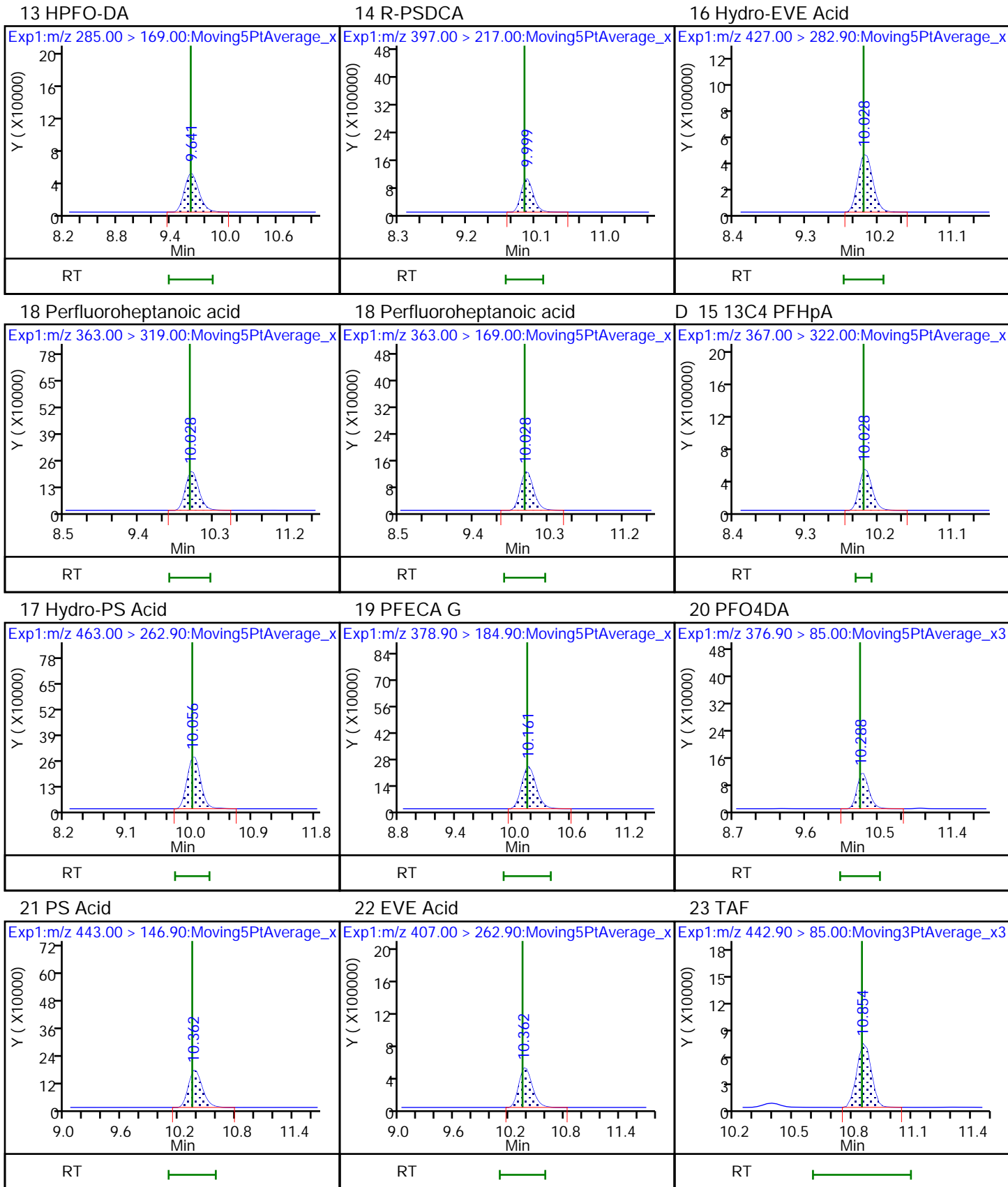


11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

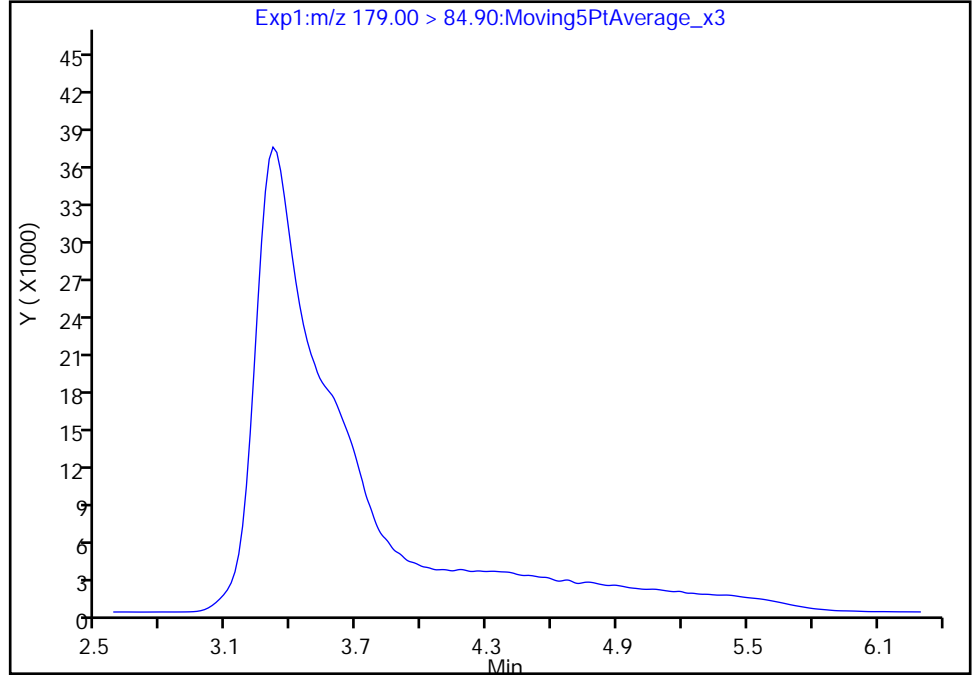
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

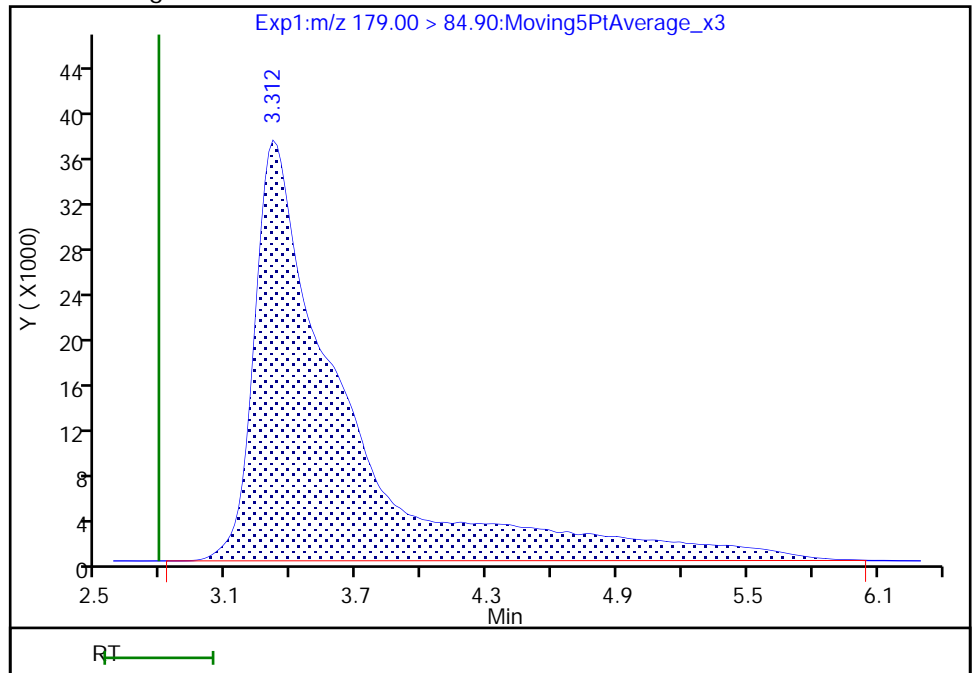
Not Detected  
Expected RT: 2.79

Processing Integration Results



RT: 3.31  
Area: 1082784  
Amount: 0.087628  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 10:25:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

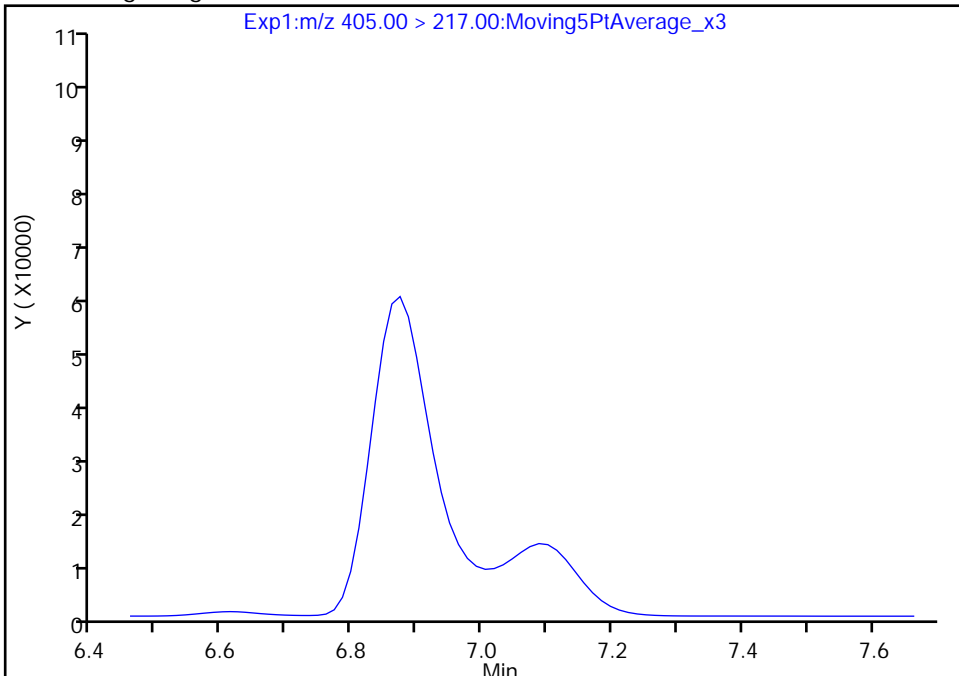
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

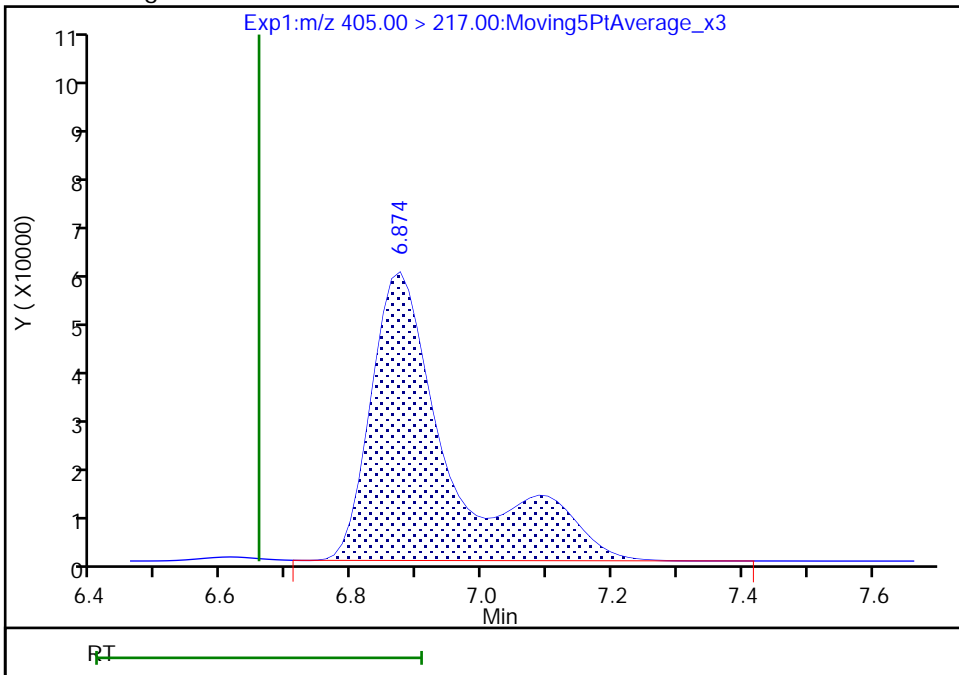
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 505484  
Amount: 0.100595  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 10:25:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

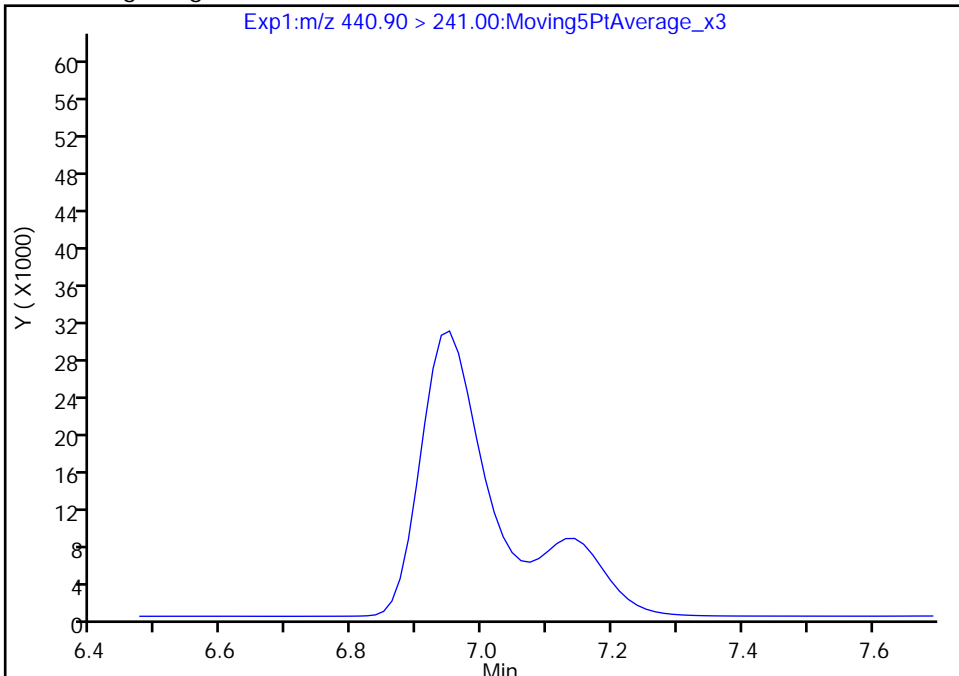
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

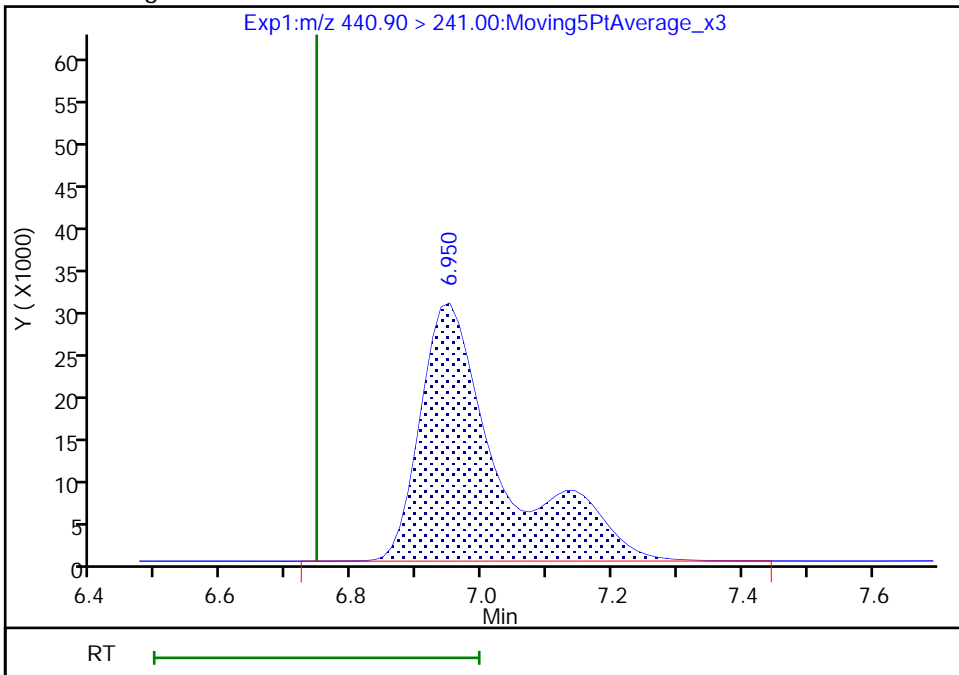
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.95  
Area: 266185  
Amount: 0.104239  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 10:25:30  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

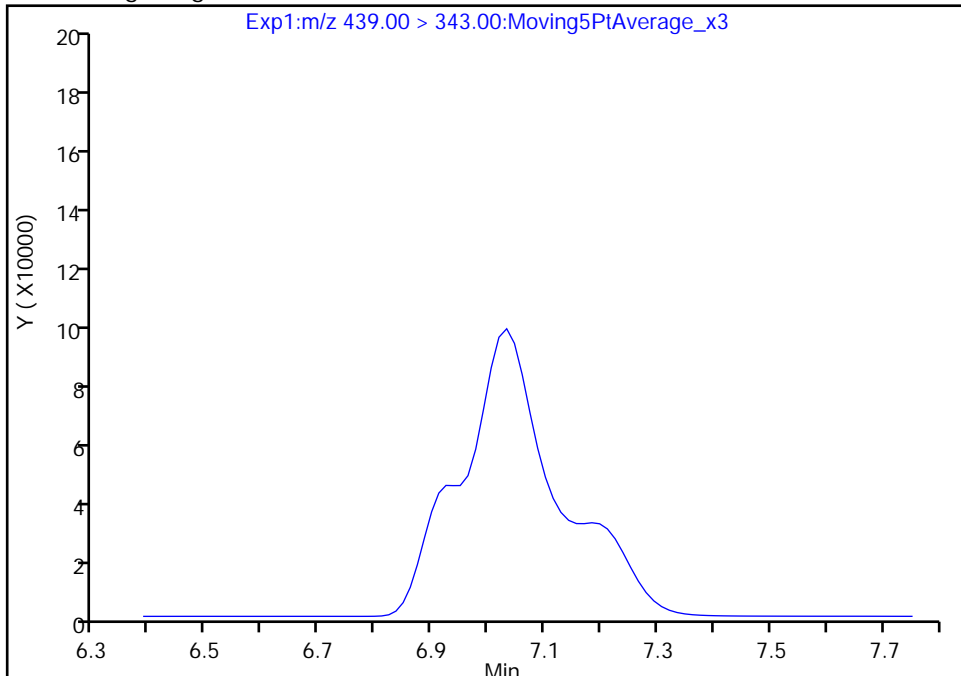
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

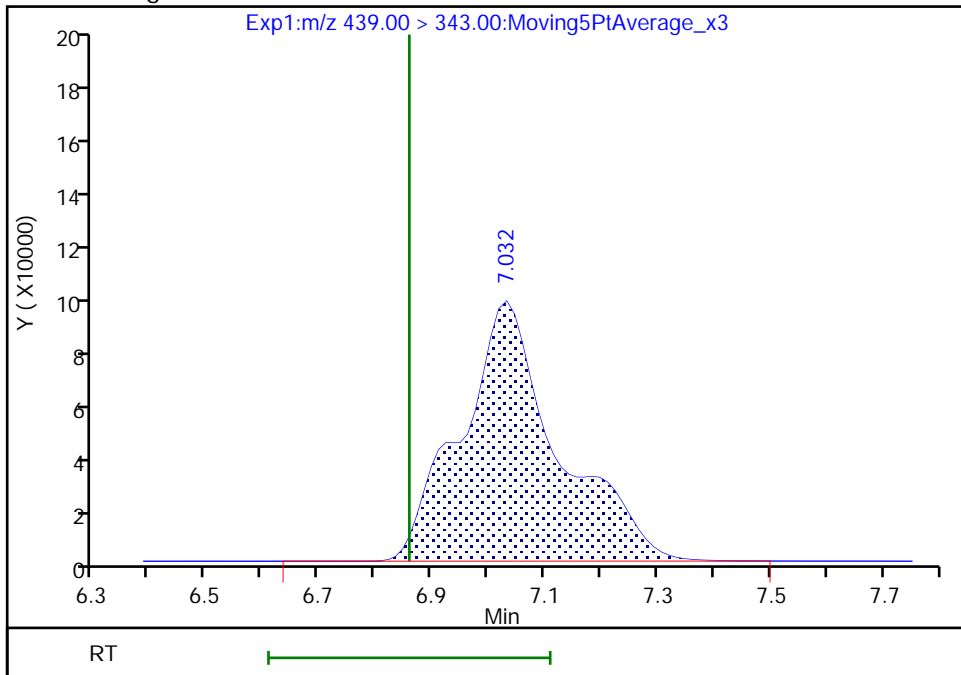
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 7.03  
Area: 1124681  
Amount: 0.098787  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 10:25:32  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-448523/1 Calibration Date: 01/05/2021 16:35  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2021.01.05\_A7\_TB3\_B\_018.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	14594310		118	100	18.1	30.0
R-EVE	Ave	5024931	5677940		113	100	13.0	50.0
R-PSDA	Ave	2553594	3016520		118	100	18.1	50.0
Hydrolyzed PSDA	Ave	11384923	13308910		117	100	16.9	50.0
PMPA	Ave	11489461	10974150		95.5	100	-4.5	30.0
NVHOS	Ave	16008657	16335990		102	100	2.0	30.0
PFO2HxA	Ave	14592930	14991570		103	100	2.7	30.0
PEPA	Ave	9499290	8900950		93.7	100	-6.3	30.0
PES	Ave	87798012	90171290		103	100	2.7	30.0
PFECA B	Ave	10671475	10974200		103	100	2.8	30.0
PFO3OA	Ave	12184521	12656530		104	100	3.9	30.0
HFPO-DA	AveID	1.137	1.162		102	100	2.2	40.0
R-PSDCA	Ave	107014490	112219920		105	100	4.9	30.0
Hydro-EVE Acid	Ave	57360184	62958290		110	100	9.8	30.0
Perfluoroheptanoic acid	L2ID		1.039		103	100	3.3	40.0
Hydro-PS Acid	Ave	35720701	36217270		101	100	1.4	30.0
PFECA G	Ave	25284933	26365670		104	100	4.3	30.0
PFO4DA	Ave	13464534	11612240		86.2	100	-13.8	30.0
EVE Acid	Ave	54913312	62413280		114	100	13.7	30.0
PS Acid	Ave	16528147	16314830		98.7	100	-1.3	30.0
PFO5DA	Ave	3582969	2069110		57.7	100	-42.3	50.0
13C3 HFPO-DA	Ave	4928972	5247492		266	250	6.5	50.0
13C4 PFHpA	Ave	22729800	23784004		262	250	4.6	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_018.d  
 Lims ID: CCV L7  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Jan-2021 16:35:24 ALS Bottle#: 18 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (331)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 09:09:41 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 09:09:41

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	2.662	2.943	-0.281		1459431	0.1181		118	4897	a
2 R-EVE										M
405.00 > 217.00	6.657	6.868	-0.211		567794	0.1130		113	9850	M
3 R-PSDA										M
440.90 > 241.00	6.771	6.958	-0.187		301652	0.1181		118	6949	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.885	7.054	-0.169		1330891	0.1169		117	24635	M
5 PMPA										M
229.00 > 185.00	6.898	7.054	-0.156		1097415	0.0955		95.5	1284	M
6 NVHOS										M
297.00 > 135.00	7.526	7.632	-0.106		1633599	0.1020		102	14084	M
7 PFO2HxA										
245.00 > 85.00	8.161	8.261	-0.100		1499157	0.1027		103	14340	
8 PEPA										M
278.90 > 234.90	8.839	8.922	-0.083		890095	0.0937		93.7	3781	M
9 PES										
314.90 > 135.00	9.158	9.231	-0.073		9017129	0.1027		103	157489	
10 PFECA B										
295.00 > 201.00	9.366	9.455	-0.089		1097420	0.1028		103	34467	
11 PFO3OA										
310.90 > 85.00	9.624	9.701	-0.077		1265653	0.1039		104	18433	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.734	9.812	-0.078		1311873	0.2662		106	37762	
13 HPFO-DA										
285.00 > 169.00	9.734	9.812	-0.078	1.000	609845	0.1022		102	17700	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.092	10.164	-0.072		11221992	0.1049		105	172288	
16 Hydro-EVE Acid										
427.00 > 282.90	10.118	10.217	-0.099		6295829	0.1098		110	83836	
D 15 13C4 PFHpA										
367.00 > 322.00	10.144	10.217	-0.073		5946001	0.2616		105	184343	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.144	10.217	-0.073	1.000	2470652	0.1033	Target=0.00	103	46036	
363.00 > 169.00	10.144	10.217	-0.073	1.000	1607290		1.54(0.00-0.00)		37439	
17 Hydro-PS Acid										
463.00 > 262.90	10.170	10.243	-0.073		3621727	0.1014		101	67990	
19 PFECA G										
378.90 > 184.90	10.246	10.345	-0.099		2636567	0.1043		104	85559	
20 PFO4DA										
376.90 > 85.00	10.395	10.494	-0.099		1161224	0.0862		86.2	12791	
22 EVE Acid										
407.00 > 262.90	10.469	10.568	-0.099		6241328	0.1137		114	156086	
21 PS Acid										
443.00 > 146.90	10.469	10.568	-0.099		1631483	0.0987		98.7	54661	
23 TAF										
442.90 > 85.00	10.963	11.060	-0.097		206911	0.0577		57.7	694	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

LCTB3\_LLSTD7\_00331

Amount Added: 1.00

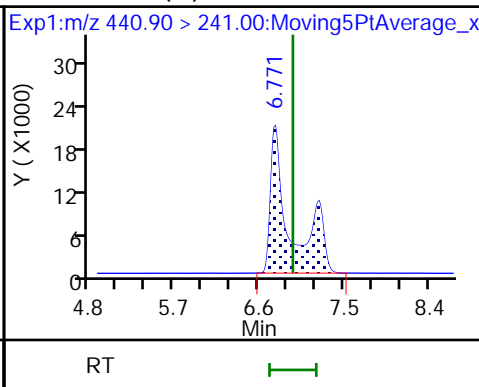
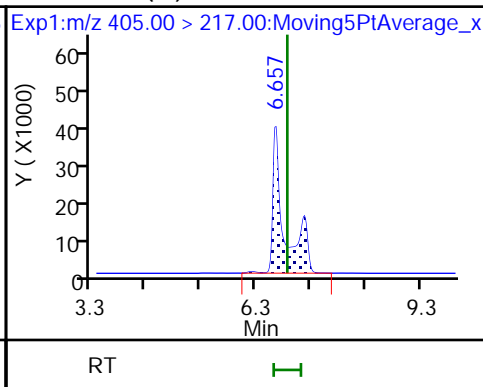
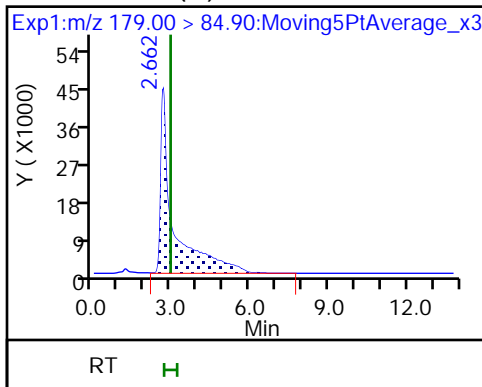
Units: mL



1 PFMOAA (M)

2 R-EVE (M)

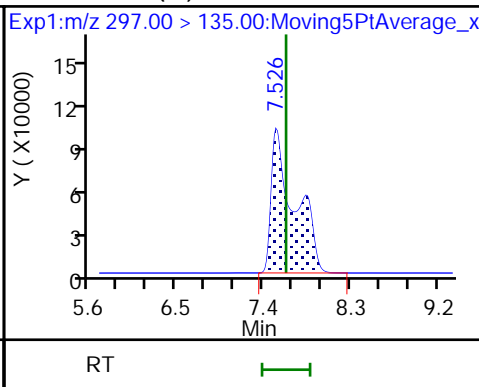
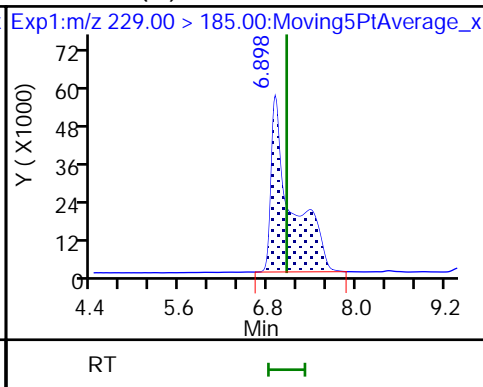
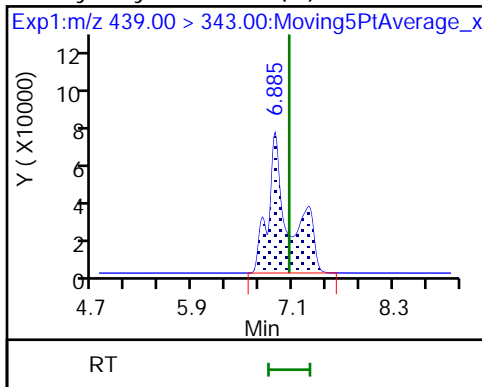
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

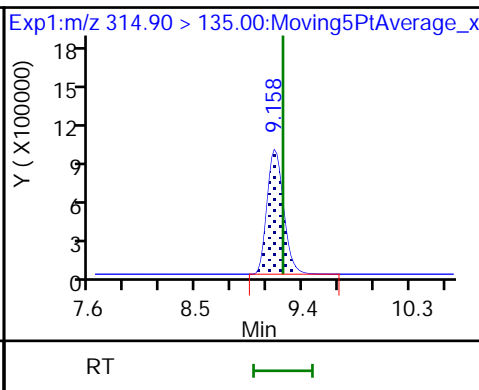
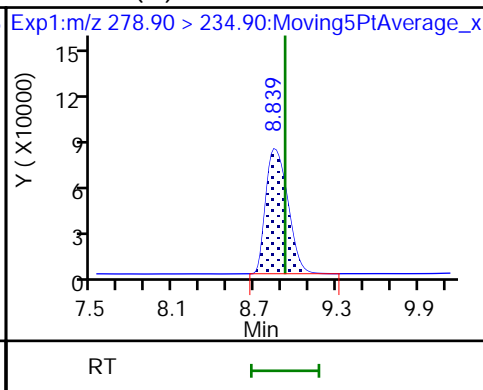
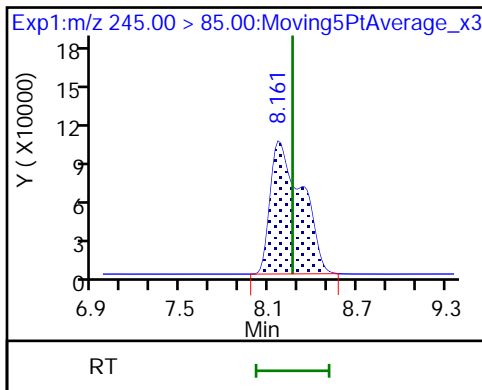
6 NVHOS (M)



7 PFO2HxA

8 PEPA (M)

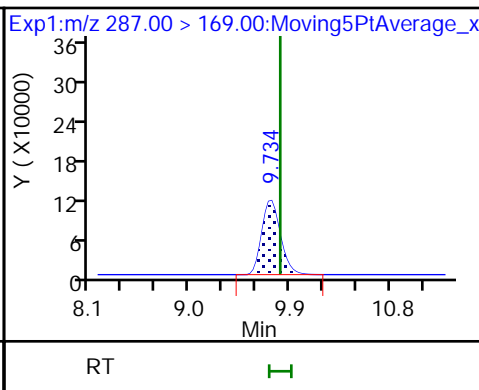
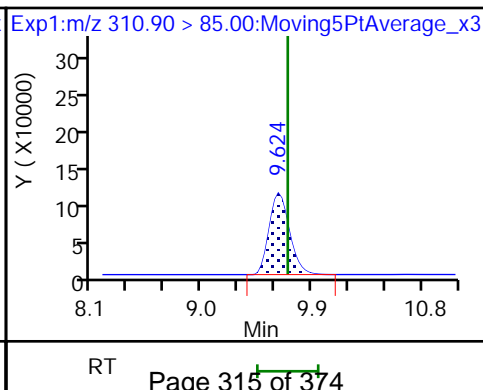
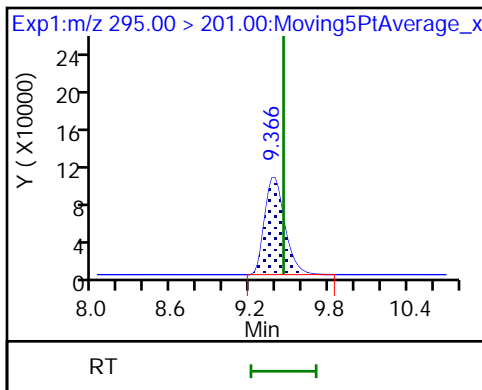
9 PES

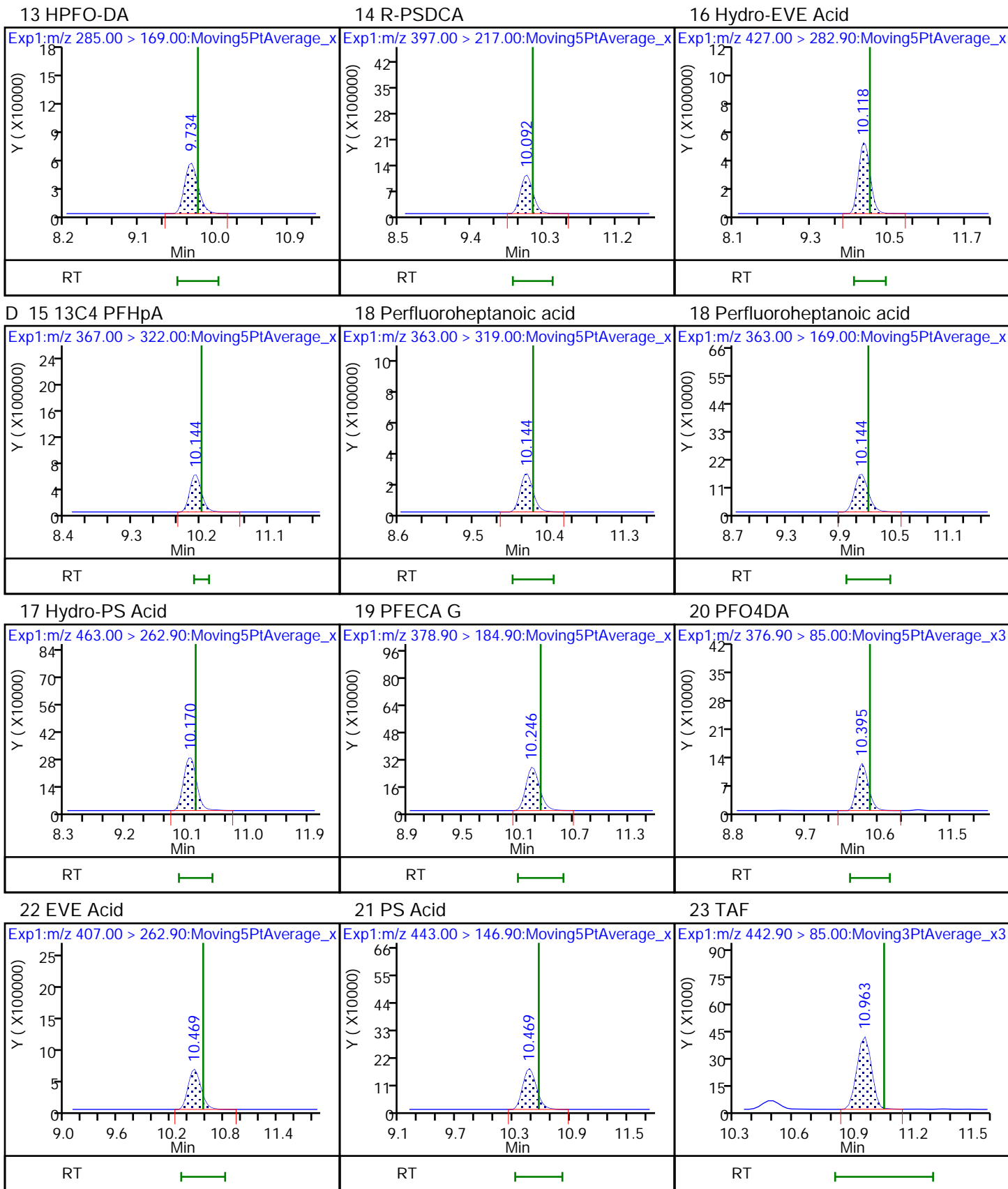


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

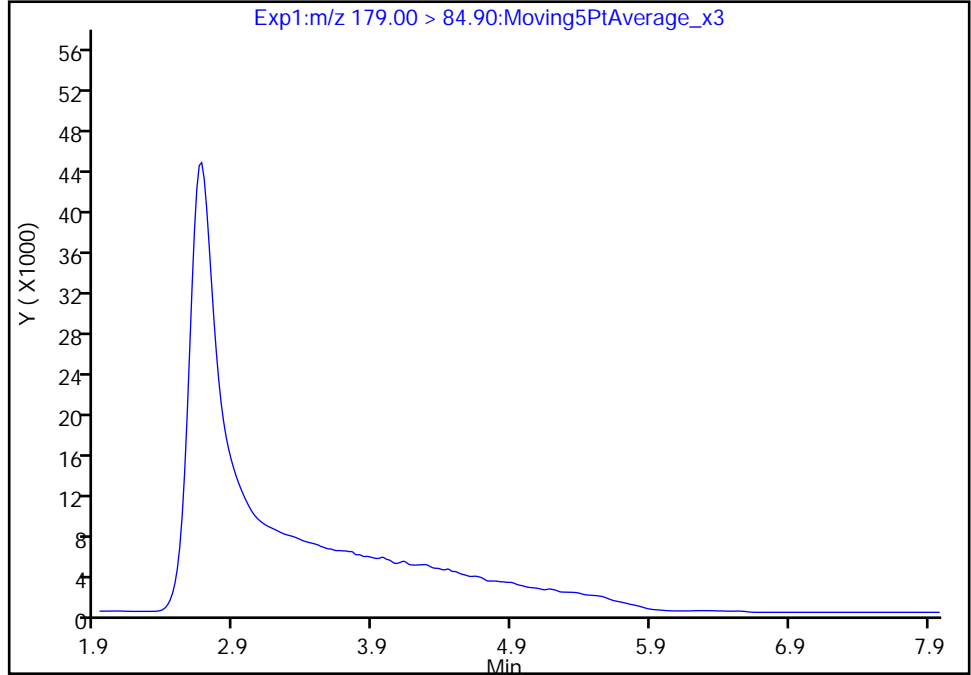
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Injection Date: 05-Jan-2021 16:35:24 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

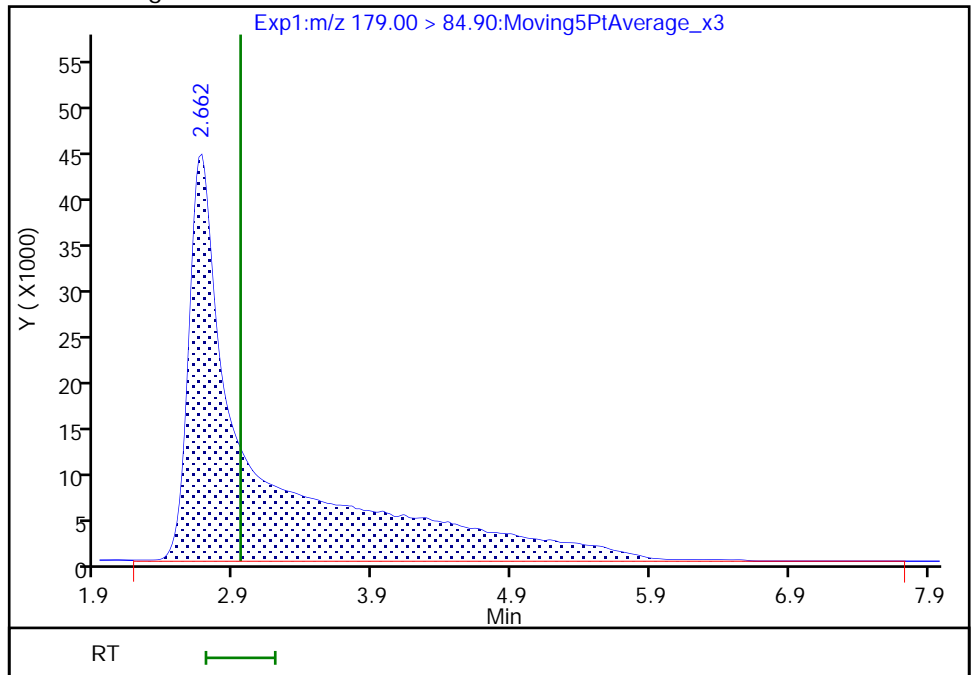
Not Detected  
Expected RT: 2.94

Processing Integration Results



Manual Integration Results

RT: 2.66  
Area: 1459431  
Amount: 0.118110  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 09:08:55  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

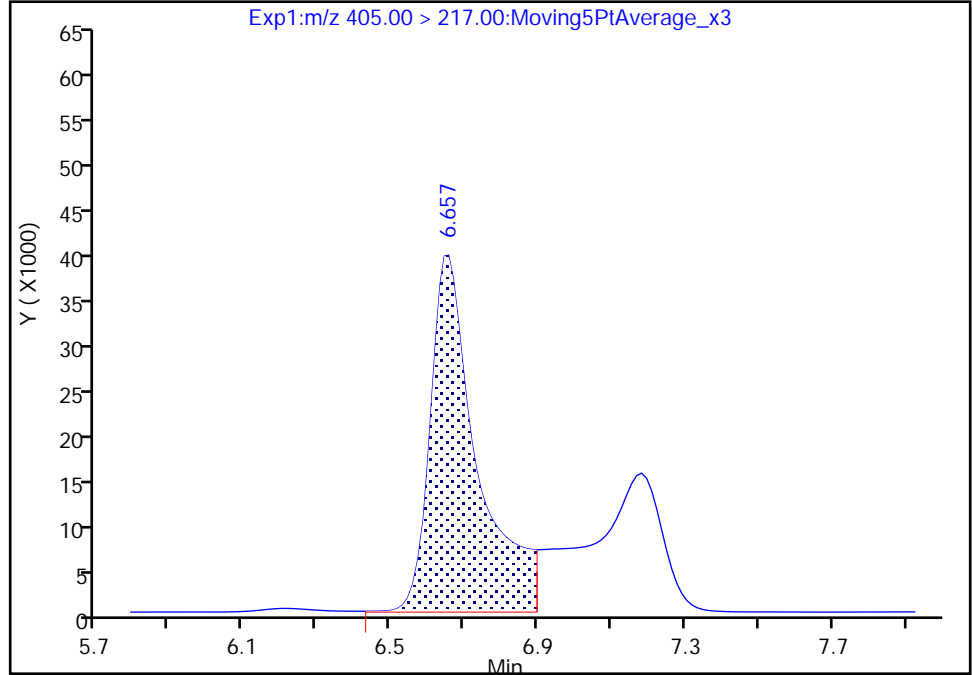
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Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

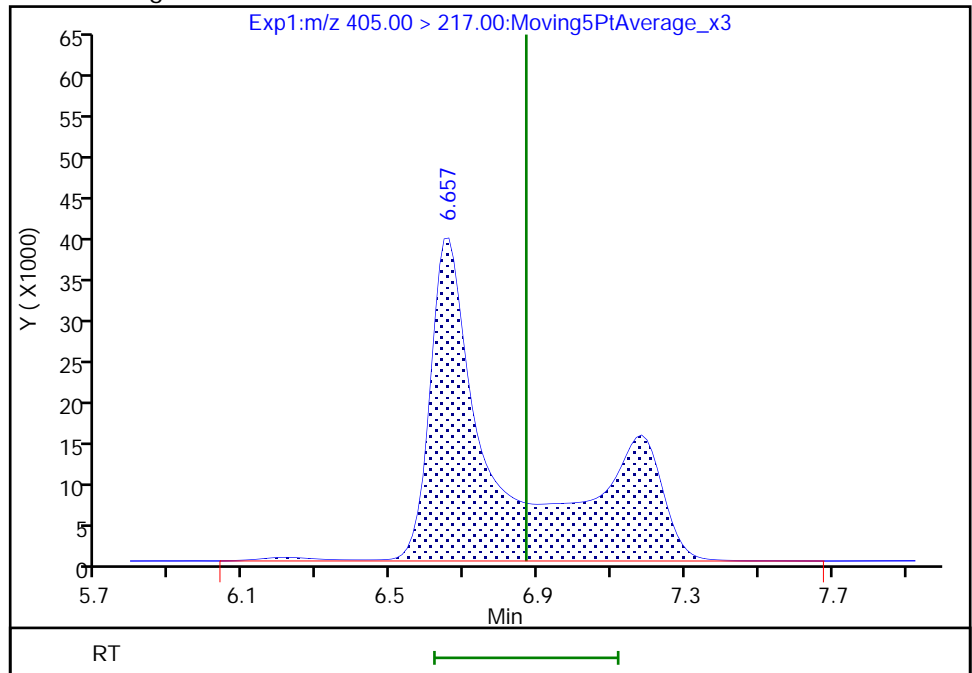
RT: 6.66  
Area: 348986  
Amount: 0.069451  
Amount Units: ng/ml

Processing Integration Results



RT: 6.66  
Area: 567794  
Amount: 0.112995  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:09:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

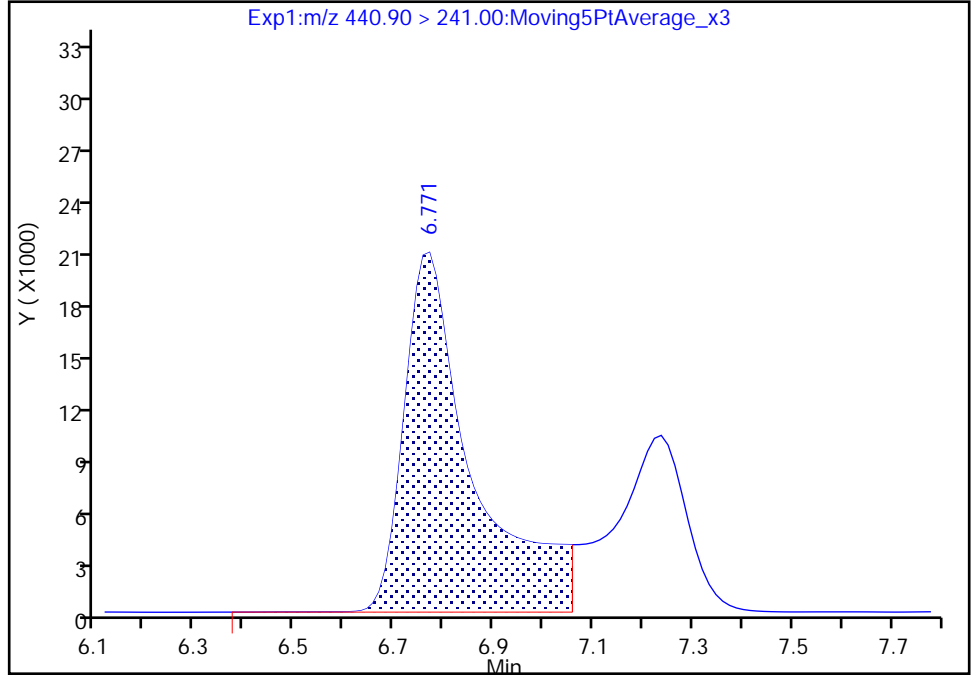
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Injection Date: 05-Jan-2021 16:35:24 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

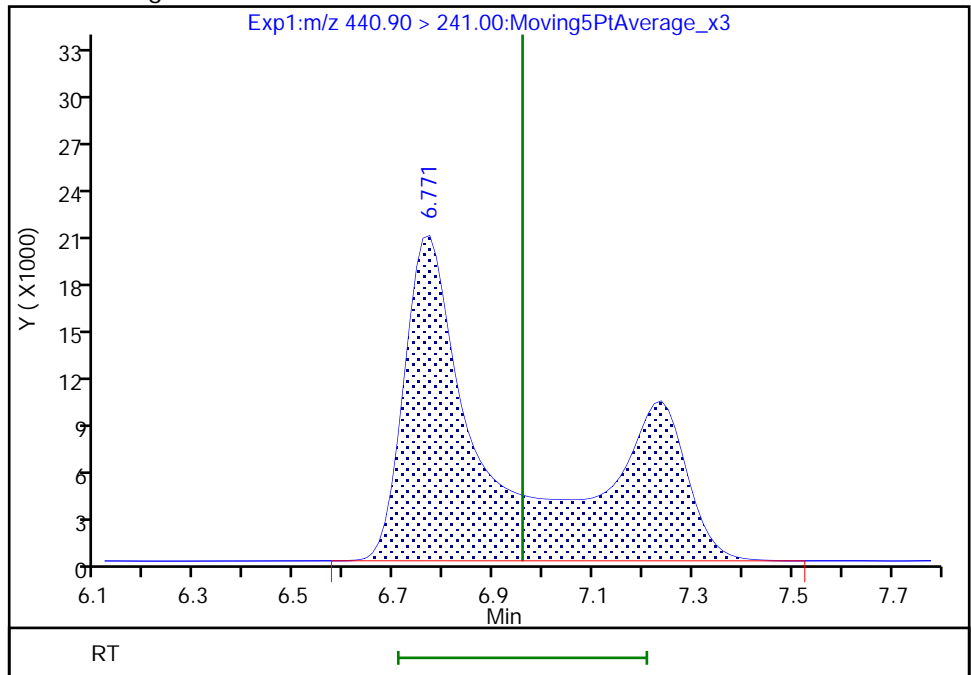
RT: 6.77  
Area: 199642  
Amount: 0.078181  
Amount Units: ng/ml

Processing Integration Results



RT: 6.77  
Area: 301652  
Amount: 0.118128  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

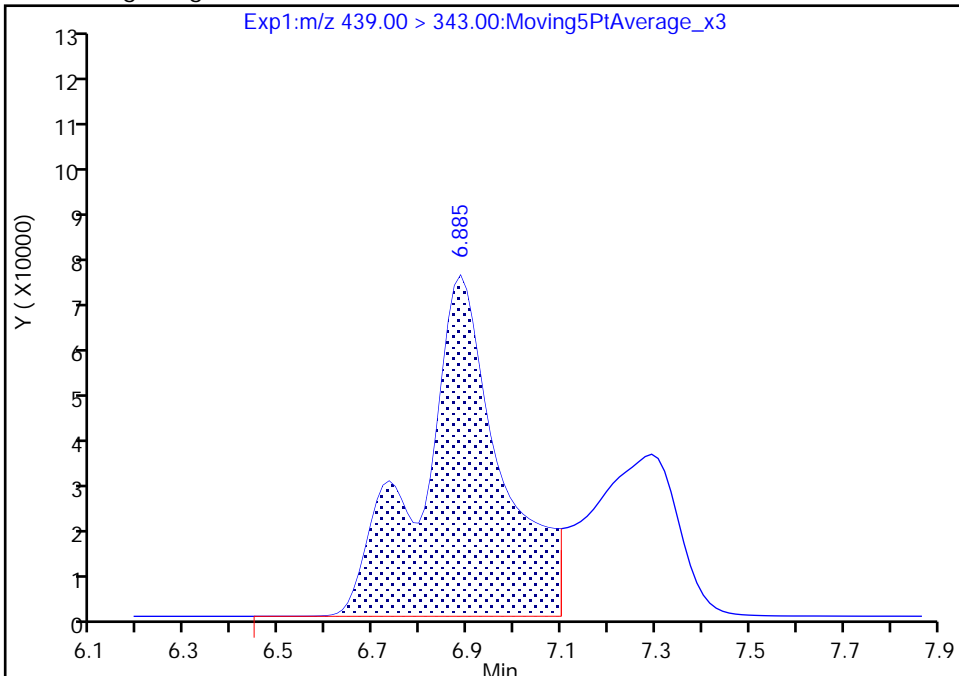
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Injection Date: 05-Jan-2021 16:35:24 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

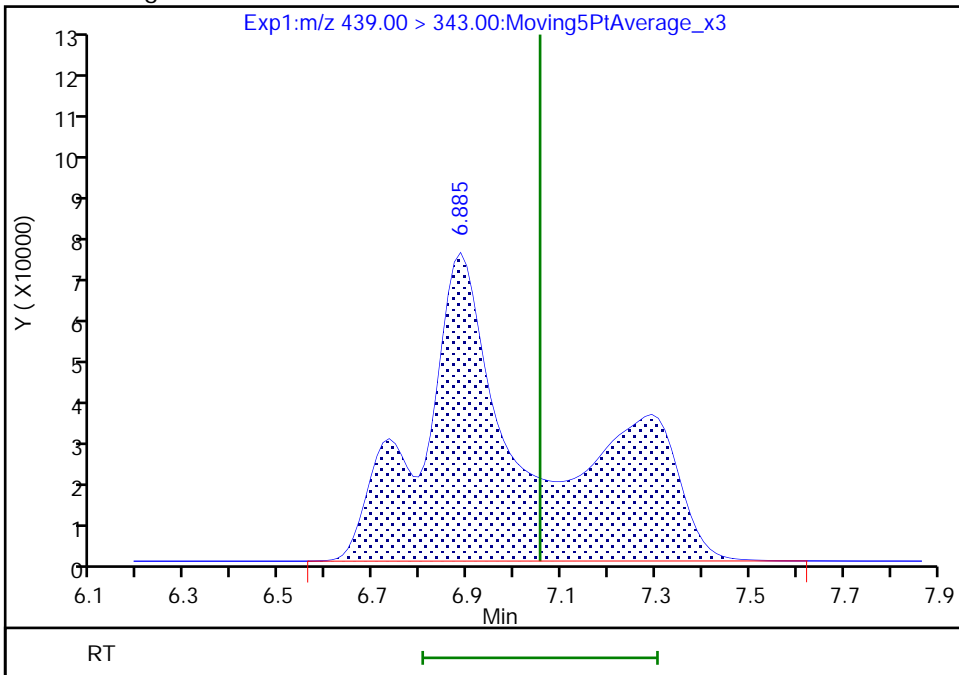
RT: 6.88  
Area: 876472  
Amount: 0.076985  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 1330891  
Amount: 0.116899  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

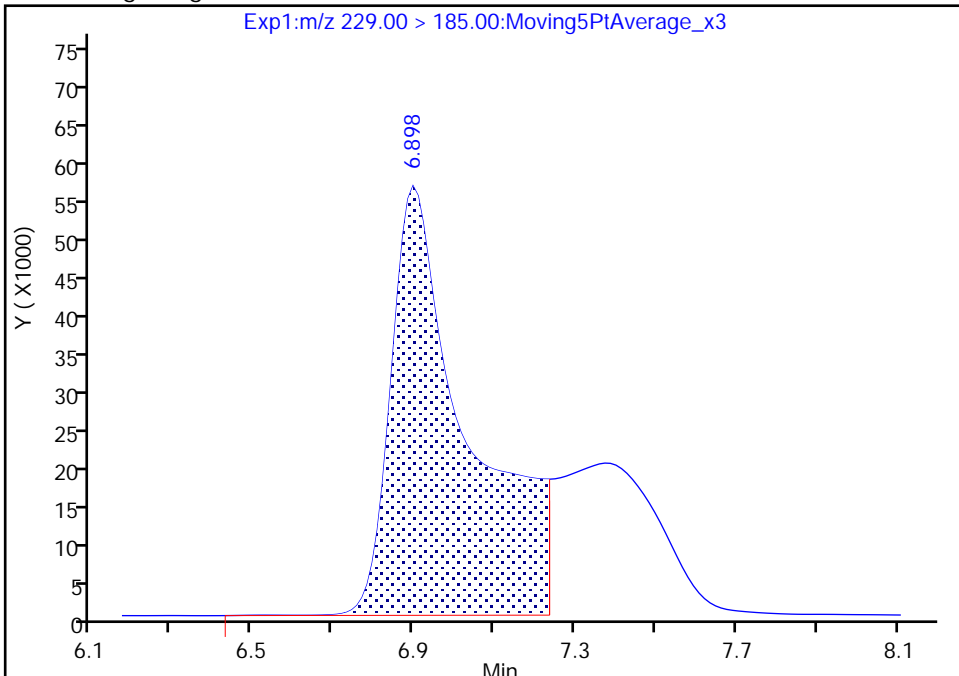
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Injection Date: 05-Jan-2021 16:35:24 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

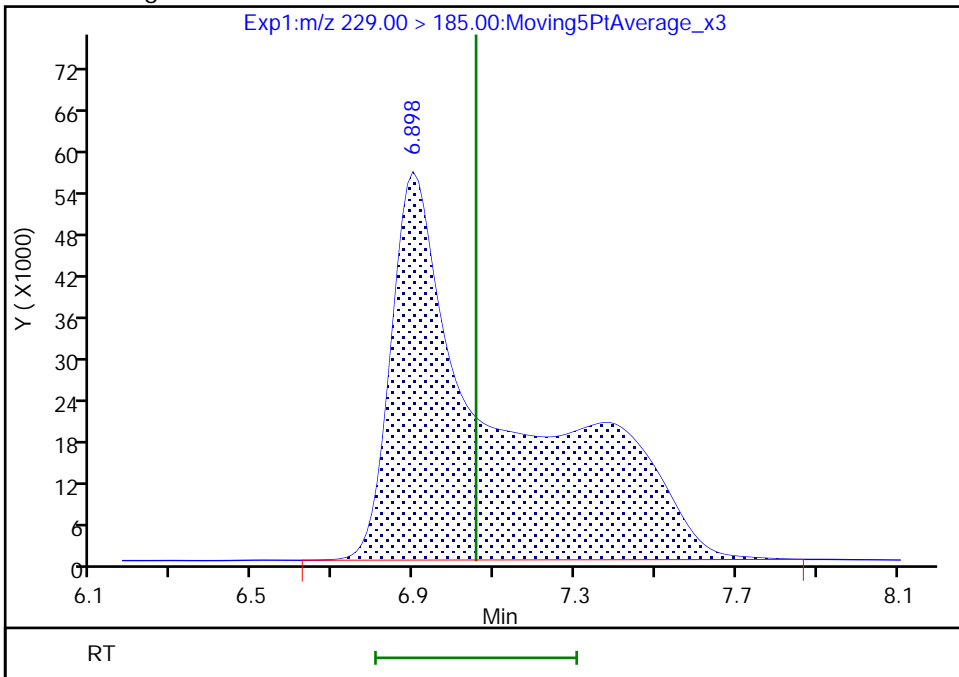
RT: 6.90  
Area: 751765  
Amount: 0.065431  
Amount Units: ng/ml

Processing Integration Results



RT: 6.90  
Area: 1097415  
Amount: 0.095515  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:09:18  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

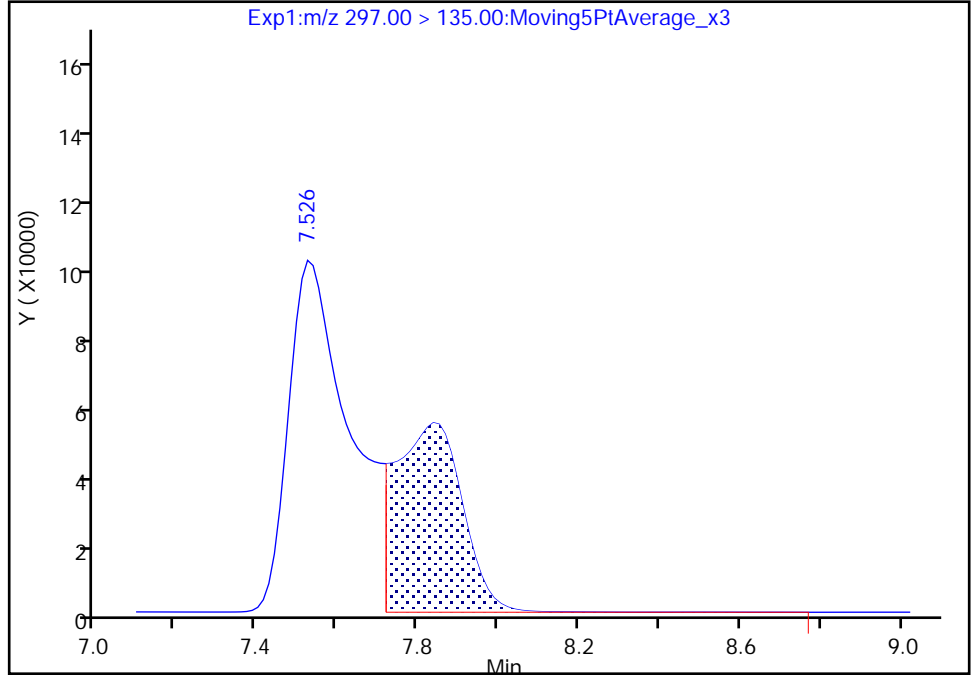
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Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

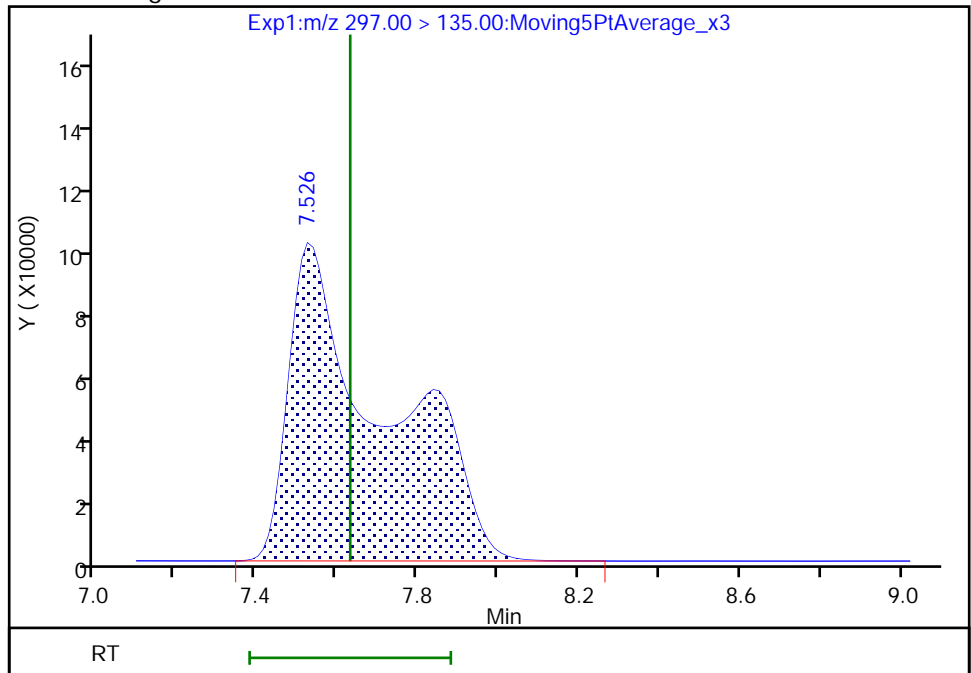
RT: 7.53  
Area: 599317  
Amount: 0.037437  
Amount Units: ng/ml

Processing Integration Results



RT: 7.53  
Area: 1633599  
Amount: 0.102045  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:09:21  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 323 of 374

Eurofins TestAmerica, Sacramento

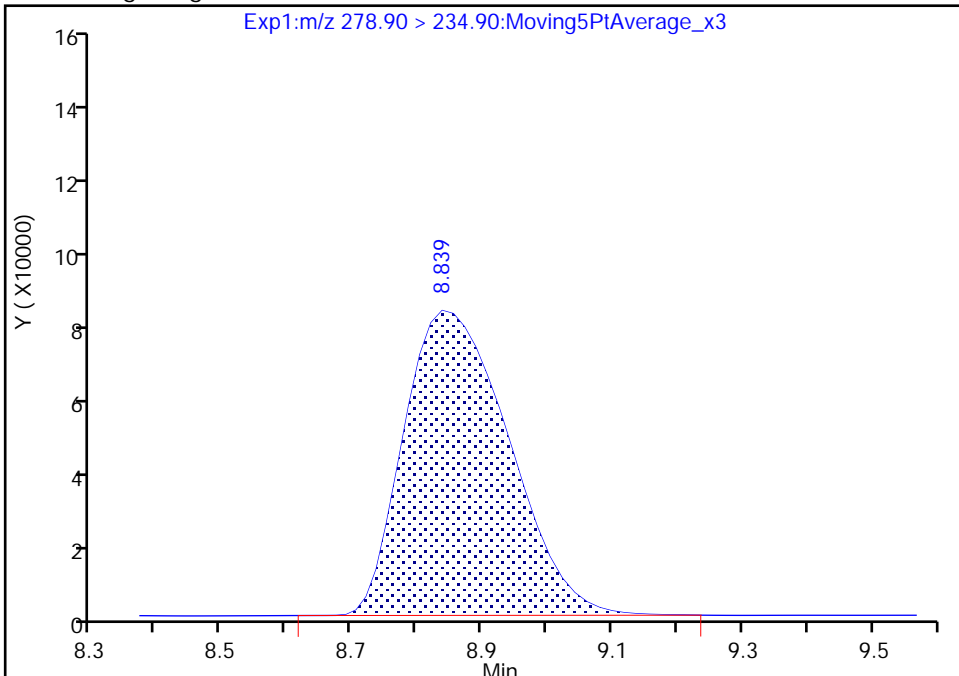
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Injection Date: 05-Jan-2021 16:35:24 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

8 PEPA, CAS: 267239-61-2

Signal: 1

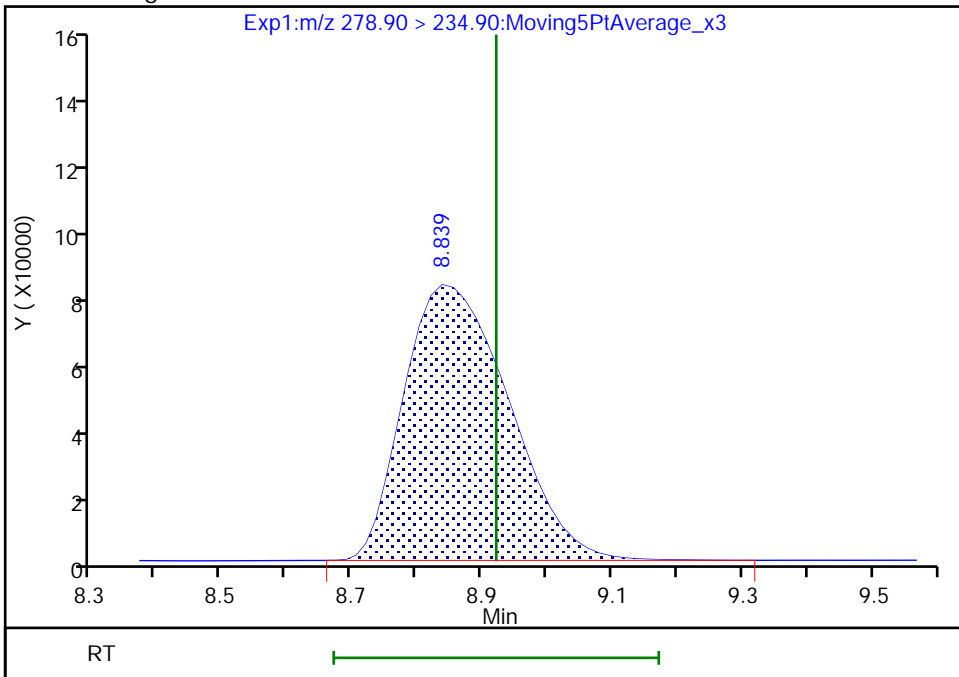
RT: 8.84  
Area: 889313  
Amount: 0.093619  
Amount Units: ng/ml

Processing Integration Results



RT: 8.84  
Area: 890095  
Amount: 0.093701  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 09:09:29  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-448523/14 Calibration Date: 01/05/2021 20:24  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2021.01.05\_A7\_TB3\_B\_031.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	13261290		107	100	7.3	30.0
R-EVE	Ave	5024931	5132120		102	100	2.1	50.0
R-PSDA	Ave	2553594	2651730		104	100	3.8	50.0
Hydrolyzed PSDA	Ave	11384923	11617530		102	100	2.0	50.0
PMPA	Ave	11489461	10518570		91.5	100	-8.5	30.0
NVHOS	Ave	16008657	15558030		97.2	100	-2.8	30.0
PFO2HxA	Ave	14592930	14098070		96.6	100	-3.4	30.0
PEPA	Ave	9499290	8378440		88.2	100	-11.8	30.0
PES	Ave	87798012	84177190		95.9	100	-4.1	30.0
PFECA B	Ave	10671475	10387930		97.3	100	-2.7	30.0
PFO3OA	Ave	12184521	12044510		98.9	100	-1.1	30.0
HFPO-DA	AveID	1.137	1.131		99.5	100	-0.5	40.0
R-PSDCA	Ave	107014490	108870960		102	100	1.7	30.0
Hydro-EVE Acid	Ave	57360184	59968680		105	100	4.5	30.0
Perfluoroheptanoic acid	L2ID		0.9568		95.1	100	-4.9	40.0
Hydro-PS Acid	Ave	35720701	34035160		95.3	100	-4.7	30.0
PFECA G	Ave	25284933	23644610		93.5	100	-6.5	30.0
PFO4DA	Ave	13464534	10490850		77.9	100	-22.1	30.0
EVE Acid	Ave	54913312	48182040		87.7	100	-12.3	30.0
PS Acid	Ave	16528147	15962110		96.6	100	-3.4	30.0
PFO5DA	Ave	3582969	2499280		69.8	100	-30.2	50.0
13C3 HFPO-DA	Ave	4928972	5148832		261	250	4.5	50.0
13C4 PFHpA	Ave	22729800	24320560		267	250	7.0	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_031.d  
 Lims ID: CCV L7  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 05-Jan-2021 20:24:01 ALS Bottle#: 31 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (332)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 11:51:42 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 11:51:42

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	2.592	2.943	-0.351		1326129	0.1073		107	4139	a
2 R-EVE										M
405.00 > 217.00	6.610	6.868	-0.258		513212	0.1021		102	7875	M
3 R-PSDA										M
440.90 > 241.00	6.720	6.958	-0.238		265173	0.1038		104	5415	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.846	7.054	-0.208		1161753	0.1020		102	19223	M
5 PMPA										M
229.00 > 185.00	6.859	7.054	-0.195		1051857	0.0915		91.5	1198	M
6 NVHOS										M
297.00 > 135.00	7.497	7.632	-0.135		1555803	0.0972		97.2	14233	M
7 PFO2HxA										
245.00 > 85.00	8.143	8.261	-0.118		1409807	0.0966		96.6	12695	
8 PEPA										
278.90 > 234.90	8.838	8.922	-0.084		837844	0.0882		88.2	3243	
9 PES										
314.90 > 135.00	9.157	9.231	-0.074		8417719	0.0959		95.9	172467	
10 PFECA B										
295.00 > 201.00	9.365	9.455	-0.090		1038793	0.0973		97.3	32984	
11 PFO3OA										
310.90 > 85.00	9.623	9.701	-0.078		1204451	0.0989		98.9	17052	
D 12 13C3 HFPO-DA										a
287.00 > 169.00	9.706	9.812	-0.106		1287208	0.2612		104	37506	a
13 HPFO-DA										
285.00 > 169.00	9.706	9.812	-0.106	1.000	582579	0.0995		99.5	16898	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.064	10.164	-0.100		10887096	0.1017		102	199648	
16 Hydro-EVE Acid										
427.00 > 282.90	10.116	10.217	-0.101		5996868	0.1045		105	79744	
D 15 13C4 PFHpA										a
367.00 > 322.00	10.116	10.217	-0.101		6080140	0.2675		107	190784	a
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.116	10.217	-0.101	1.000	2326968	0.0951	Target=0.00	95.1	43722	
363.00 > 169.00	10.116	10.217	-0.101	1.000	1446304		1.61(0.00-0.00)		33988	
17 Hydro-PS Acid										
463.00 > 262.90	10.142	10.243	-0.101		3403516	0.0953		95.3	64307	
19 PFECA G										
378.90 > 184.90	10.243	10.345	-0.102		2364461	0.0935		93.5	77347	
20 PFO4DA										
376.90 > 85.00	10.392	10.494	-0.102		1049085	0.0779		77.9	12932	
22 EVE Acid										
407.00 > 262.90	10.466	10.568	-0.102		4818204	0.0877		87.7	119795	
21 PS Acid										
443.00 > 146.90	10.466	10.568	-0.102		1596211	0.0966		96.6	53543	
23 TAF										
442.90 > 85.00	10.957	11.060	-0.103		249928	0.0698		69.8	786	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

LCTB3\_LLSTD7\_00332

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_031.d

Injection Date: 05-Jan-2021 20:24:01

Instrument ID: A7\_N

Lims ID: CCV L7

Client ID:

Operator ID: abservice

ALS Bottle#: 31

Worklist Smp#: 14

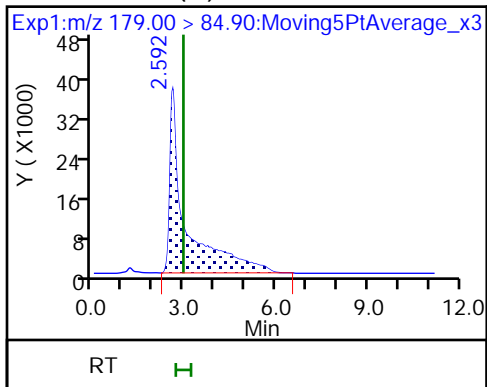
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

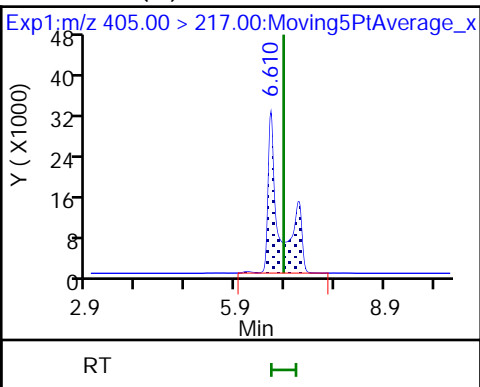
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

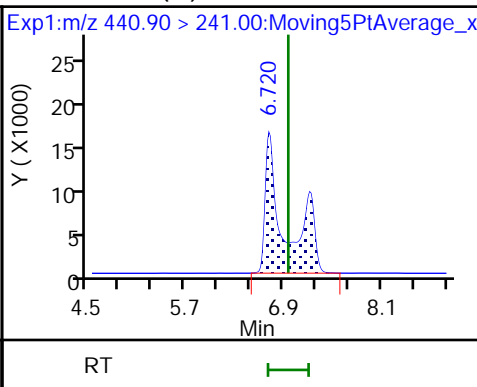
1 PFMOAA (M)



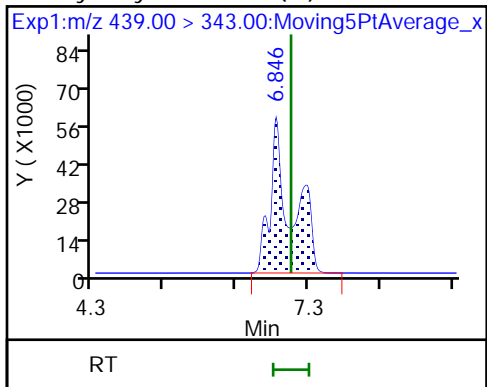
2 R-EVE (M)



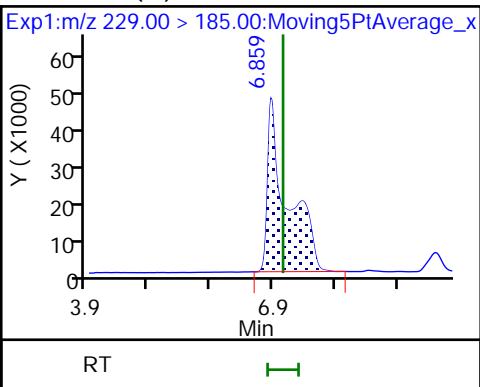
3 R-PSDA (M)



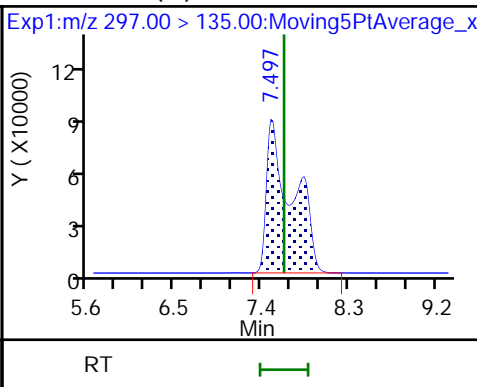
4 Hydrolyzed PSDA (M)



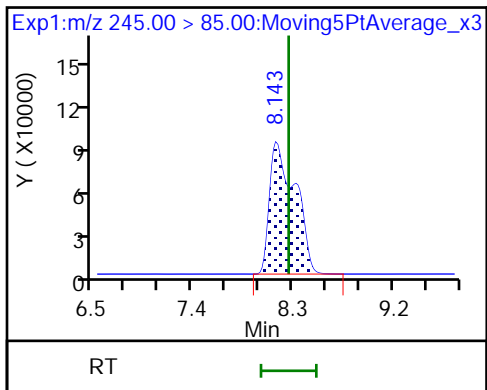
5 PMPA (M)



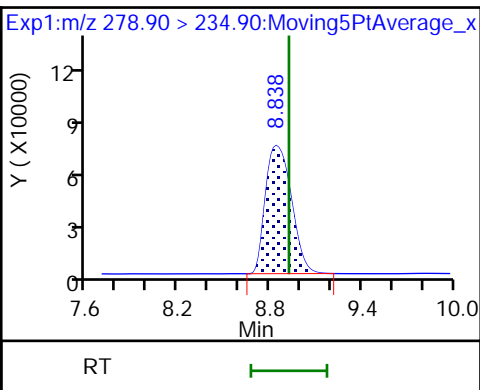
6 NVHOS (M)



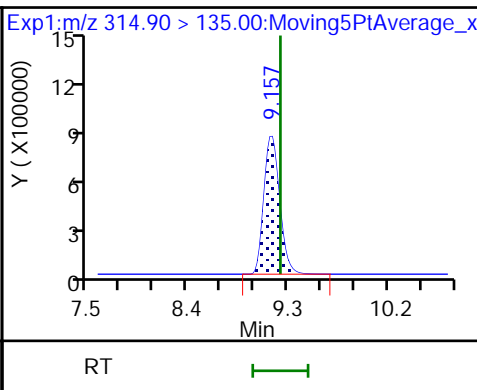
7 PFO2HxA



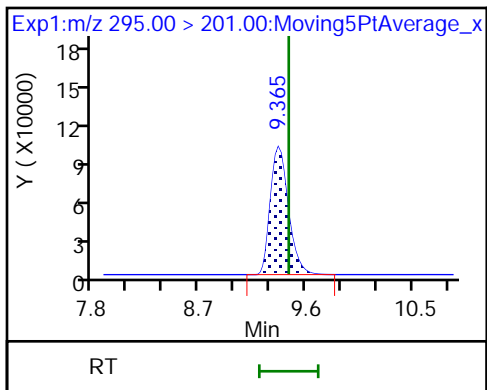
8 PEPA



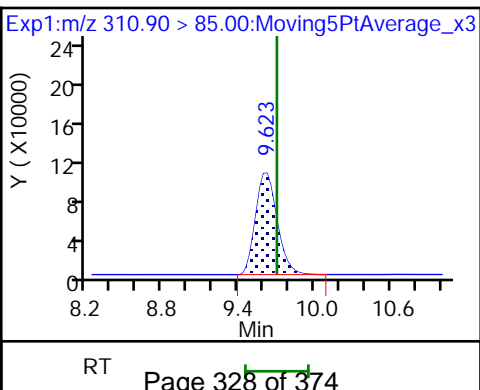
9 PES



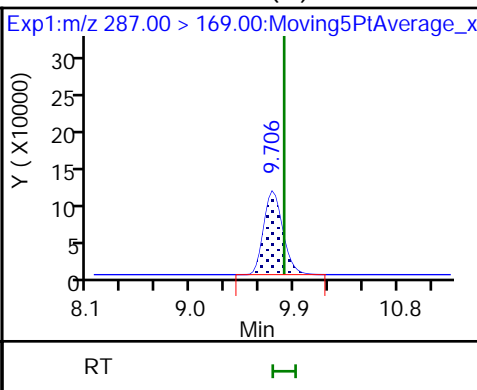
10 PFECA B

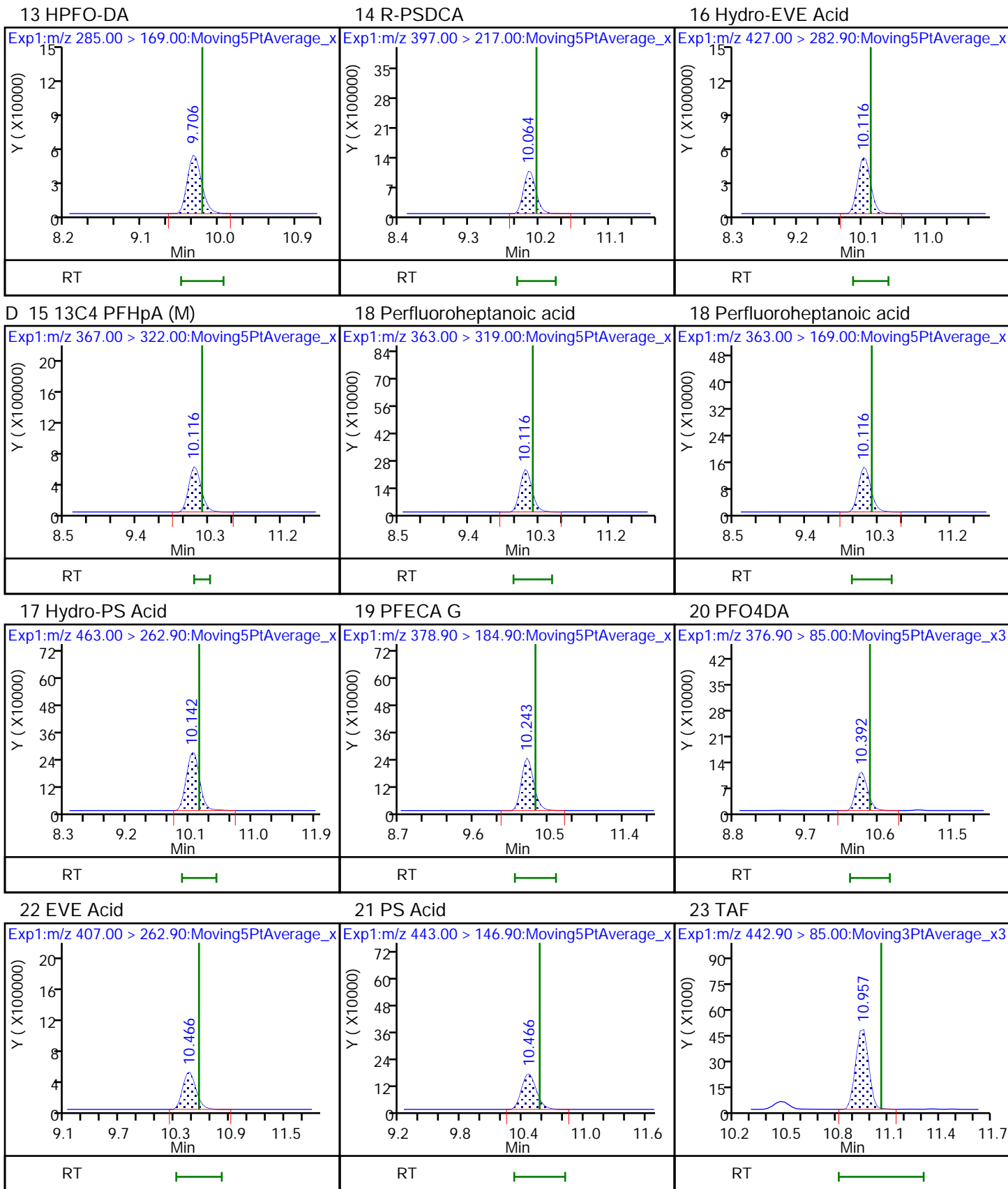


11 PFO3OA



D 12 13C3 HFPO-DA (M)









Eurofins TestAmerica, Sacramento

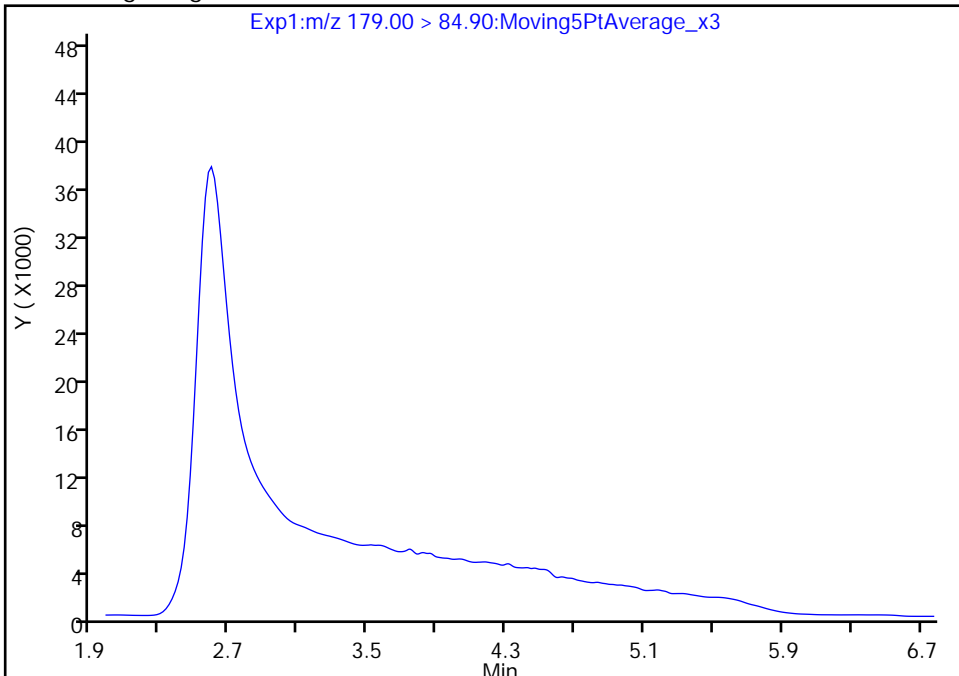
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Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

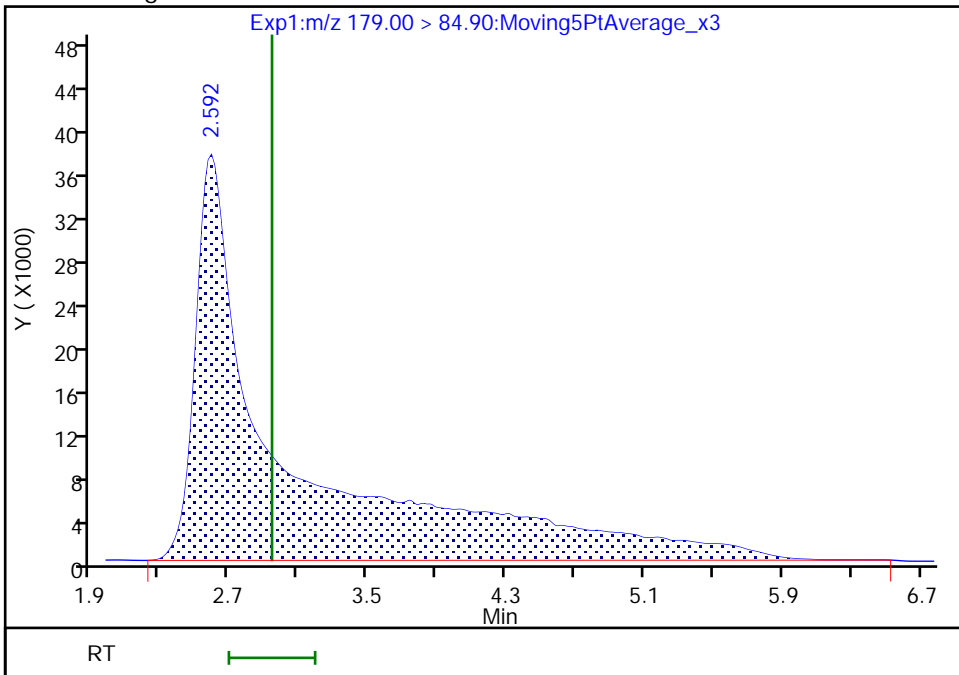
Not Detected  
Expected RT: 2.94

Processing Integration Results



Manual Integration Results

RT: 2.59  
Area: 1326129  
Amount: 0.107322  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 11:50:13  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

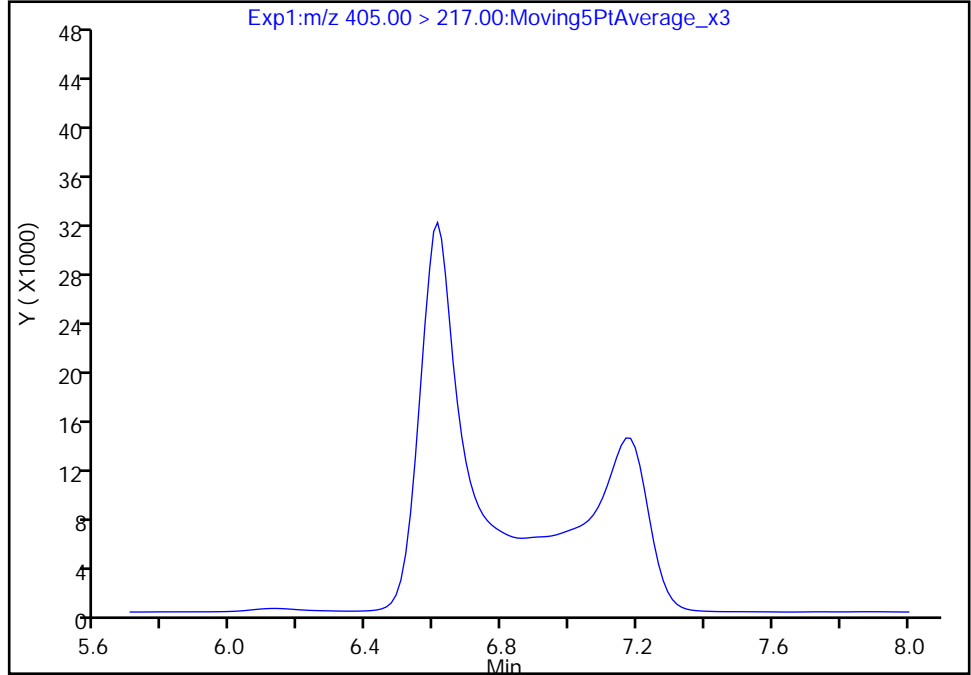
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_031.d  
Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

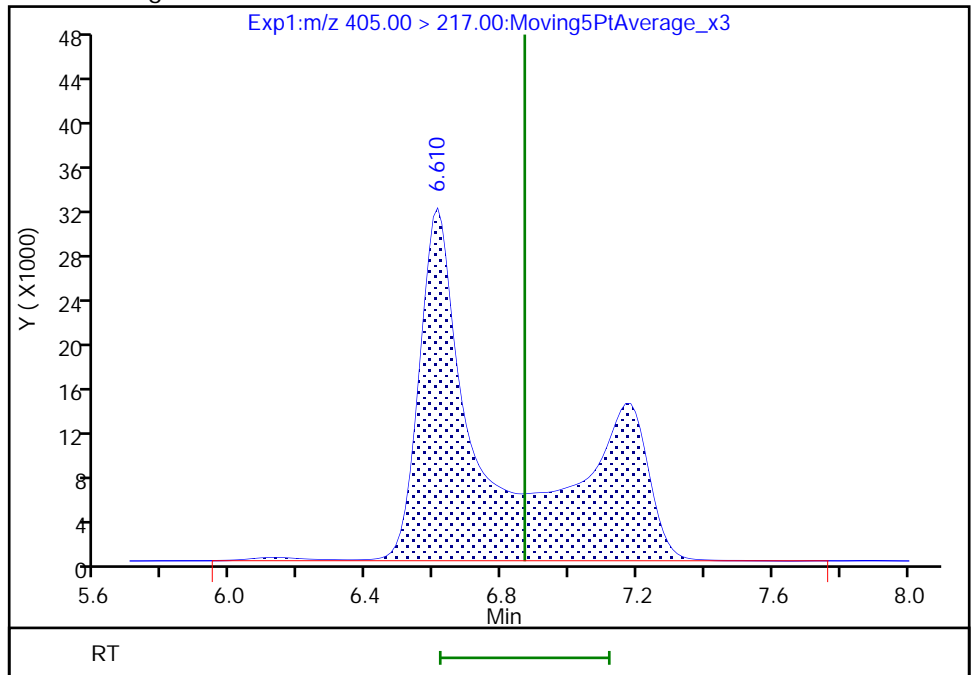
Not Detected  
Expected RT: 6.87

Processing Integration Results



Manual Integration Results

RT: 6.61  
Area: 513212  
Amount: 0.102133  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

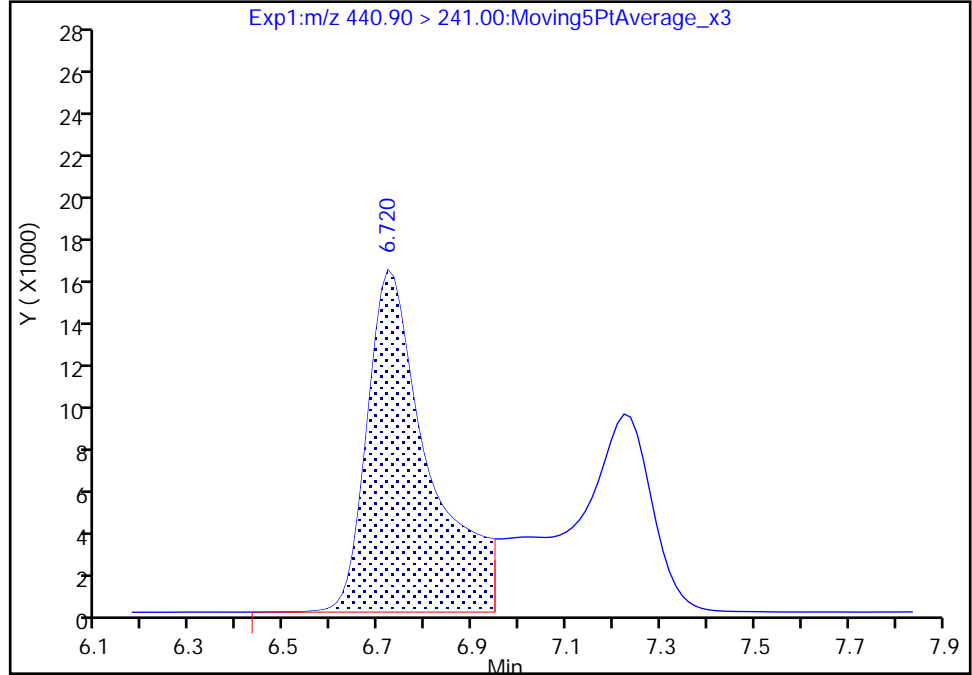
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Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

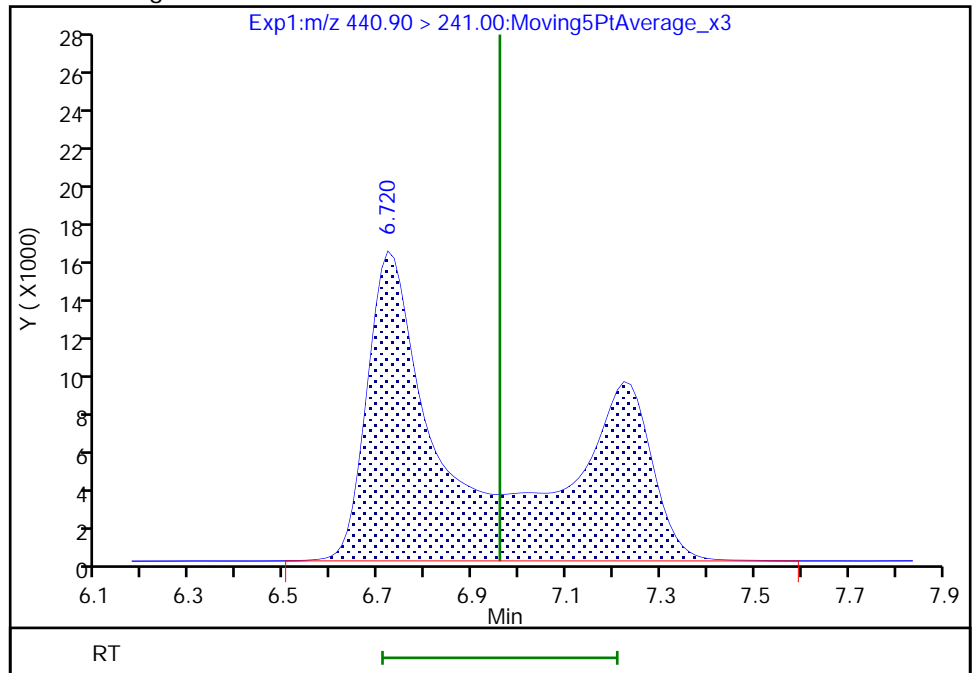
RT: 6.72  
Area: 147969  
Amount: 0.057945  
Amount Units: ng/ml

Processing Integration Results



RT: 6.72  
Area: 265173  
Amount: 0.103843  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:50:33  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

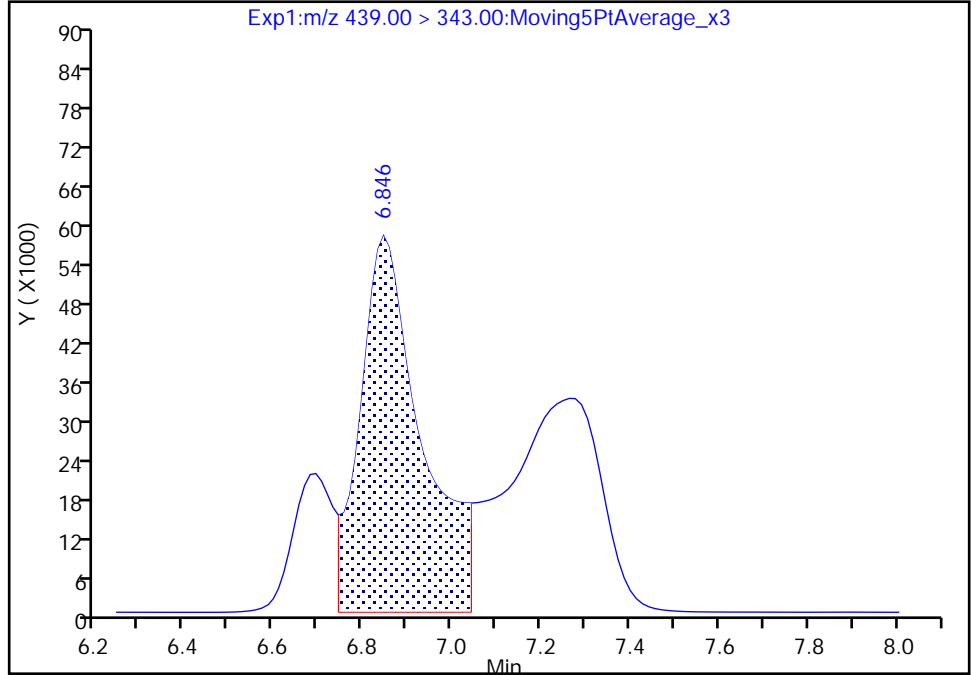
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_031.d  
Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

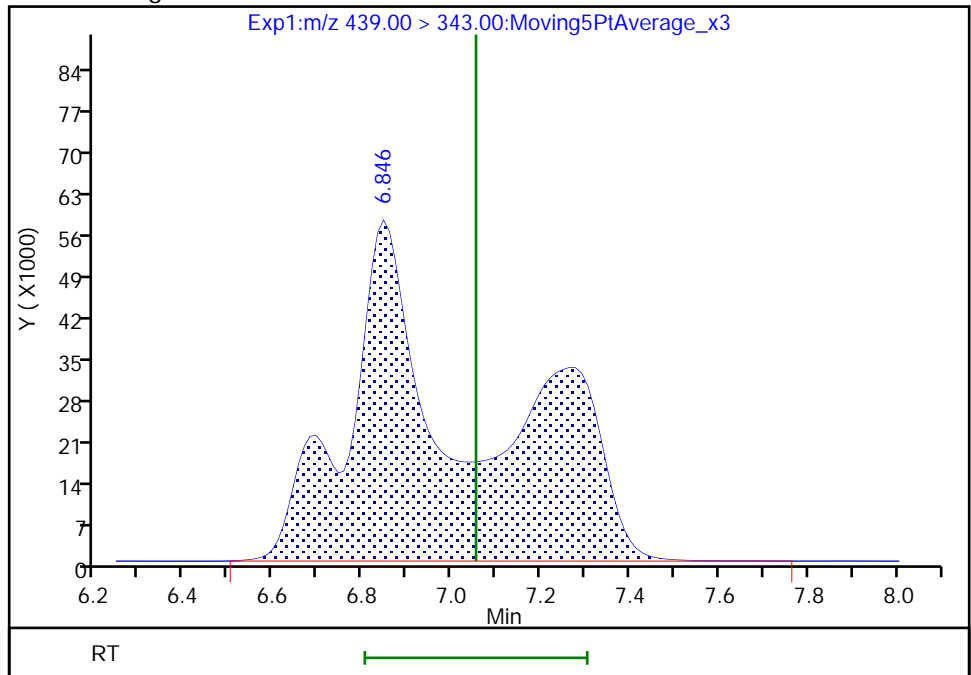
RT: 6.85  
Area: 549771  
Amount: 0.048289  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 1161753  
Amount: 0.102043  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:50:37  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

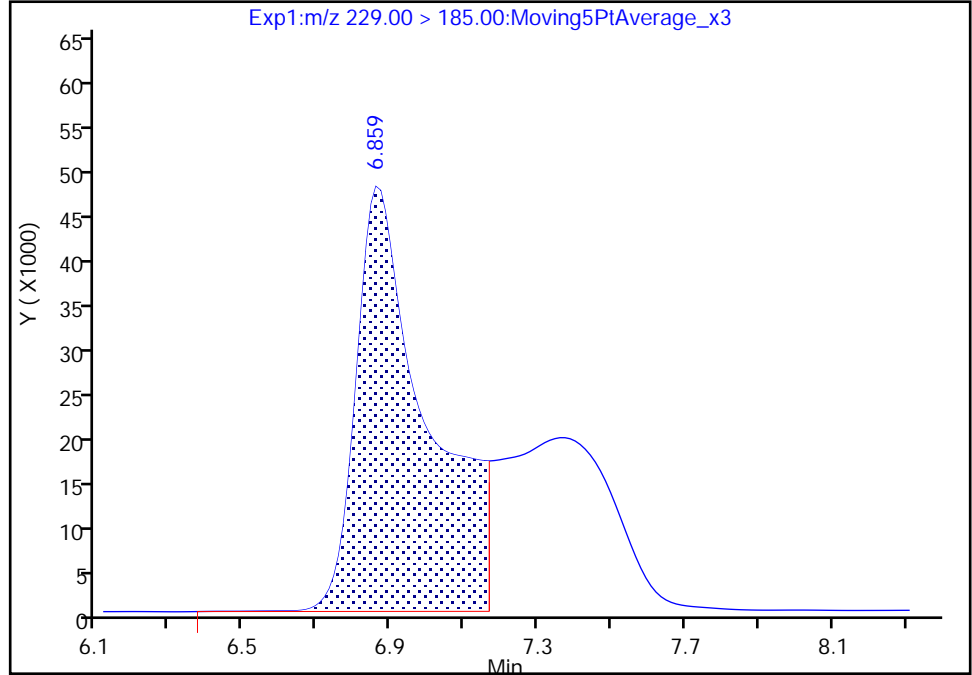
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_031.d  
Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

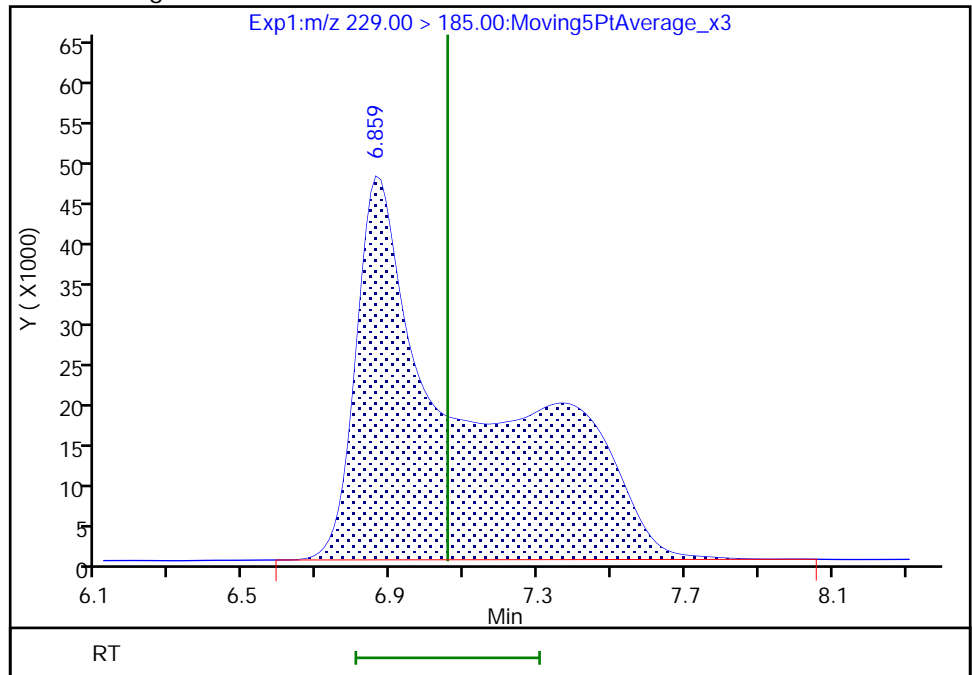
RT: 6.86  
Area: 641581  
Amount: 0.055841  
Amount Units: ng/ml

Processing Integration Results



RT: 6.86  
Area: 1051857  
Amount: 0.091550  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:50:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

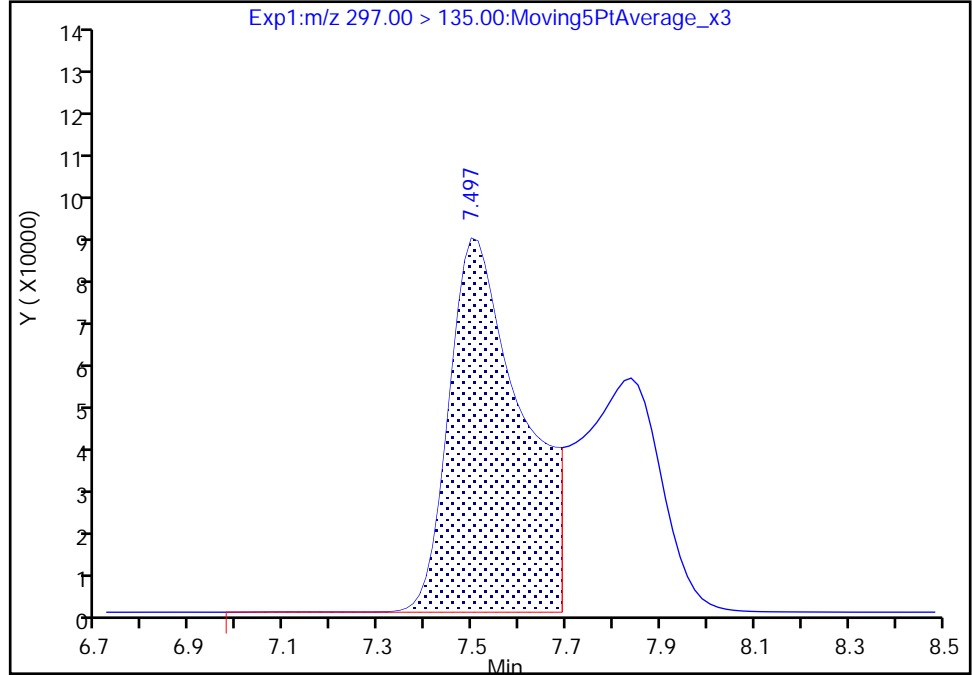
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Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

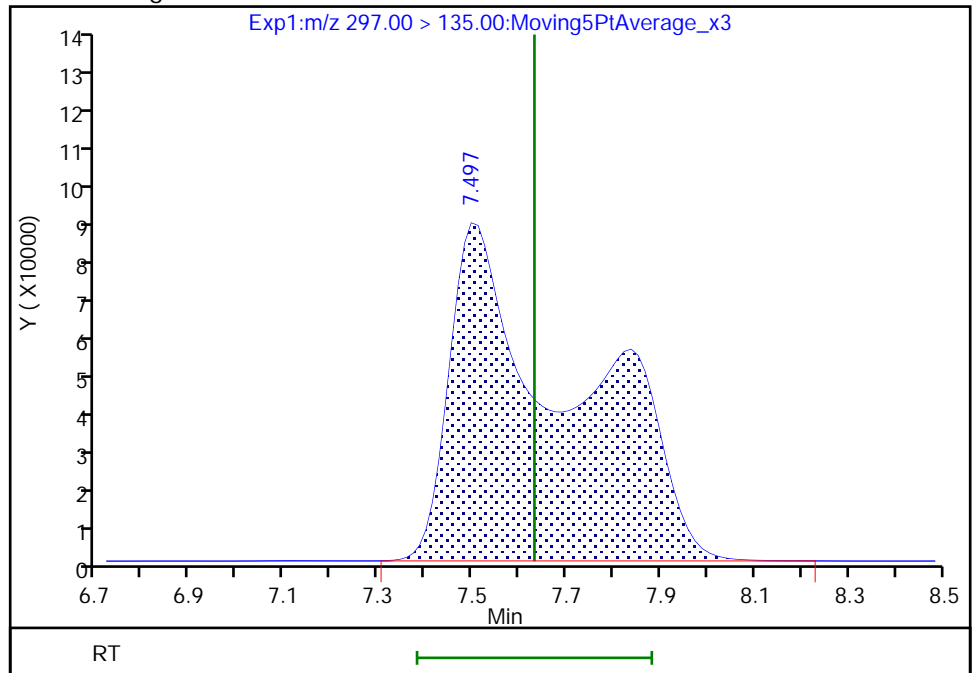
RT: 7.50  
Area: 916633  
Amount: 0.057259  
Amount Units: ng/ml

Processing Integration Results



RT: 7.50  
Area: 1555803  
Amount: 0.097185  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:50:45  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 336 of 374

Eurofins TestAmerica, Sacramento

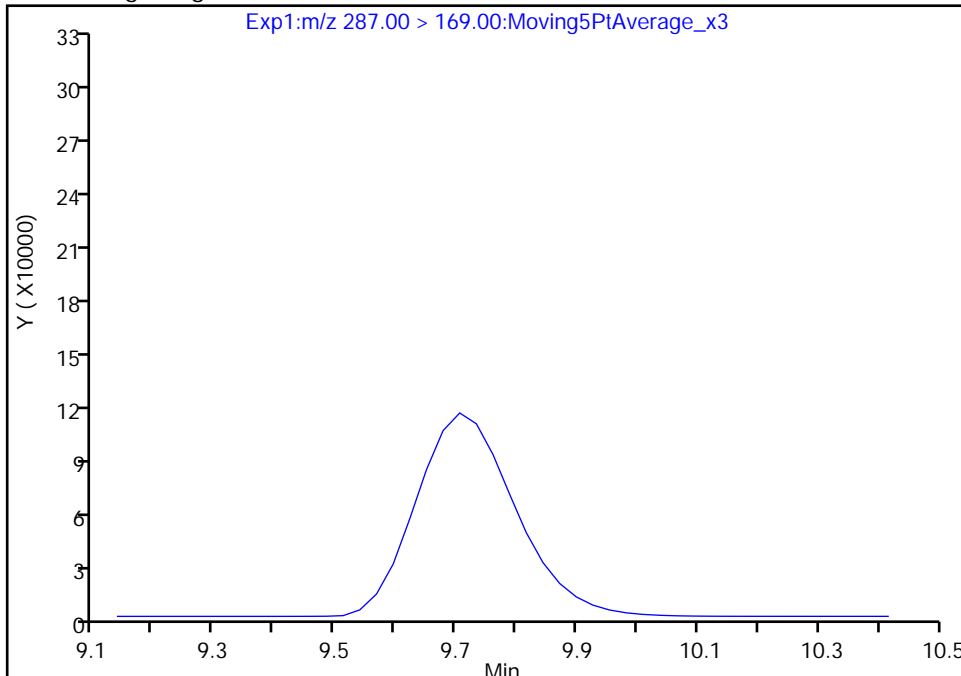
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Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 12 13C3 HFPO-DA, CAS: STL02255

Signal: 1

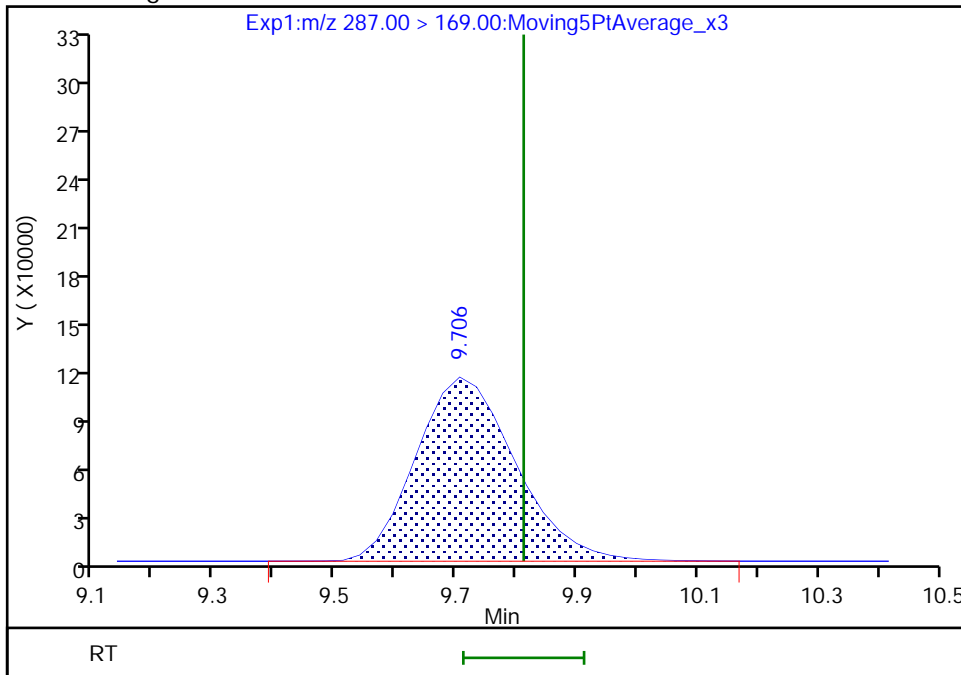
Not Detected  
Expected RT: 9.81

Processing Integration Results



Manual Integration Results

RT: 9.71  
Area: 1287208  
Amount: 0.261151  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

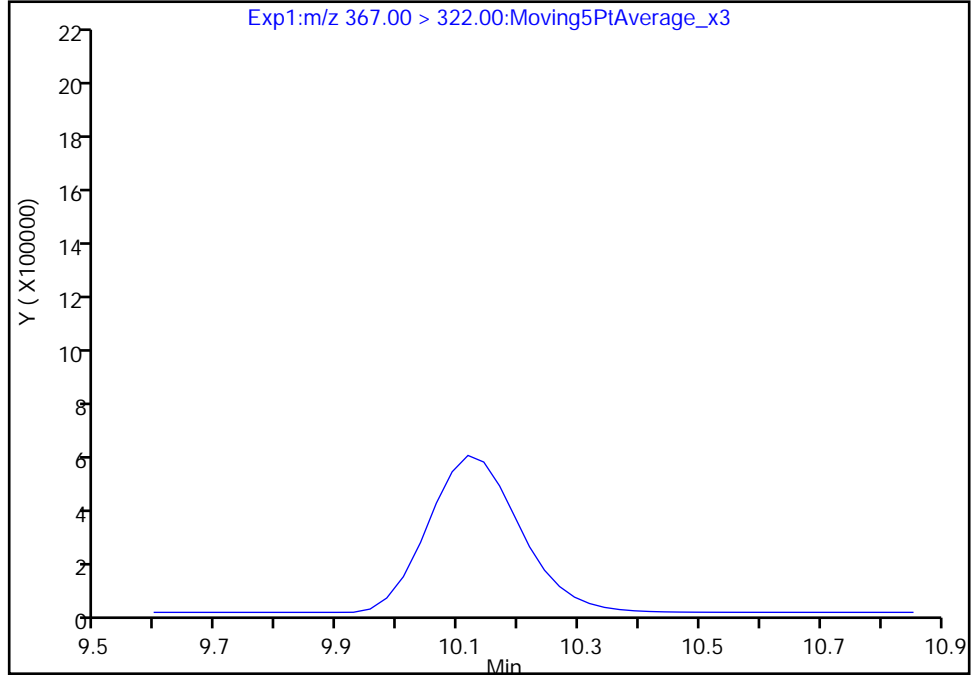
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Injection Date: 05-Jan-2021 20:24:01 Instrument ID: A7\_N  
Lims ID: CCV L7  
Client ID:  
Operator ID: abservice ALS Bottle#: 31 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 15 13C4 PFHpA, CAS: STL01892

Signal: 1

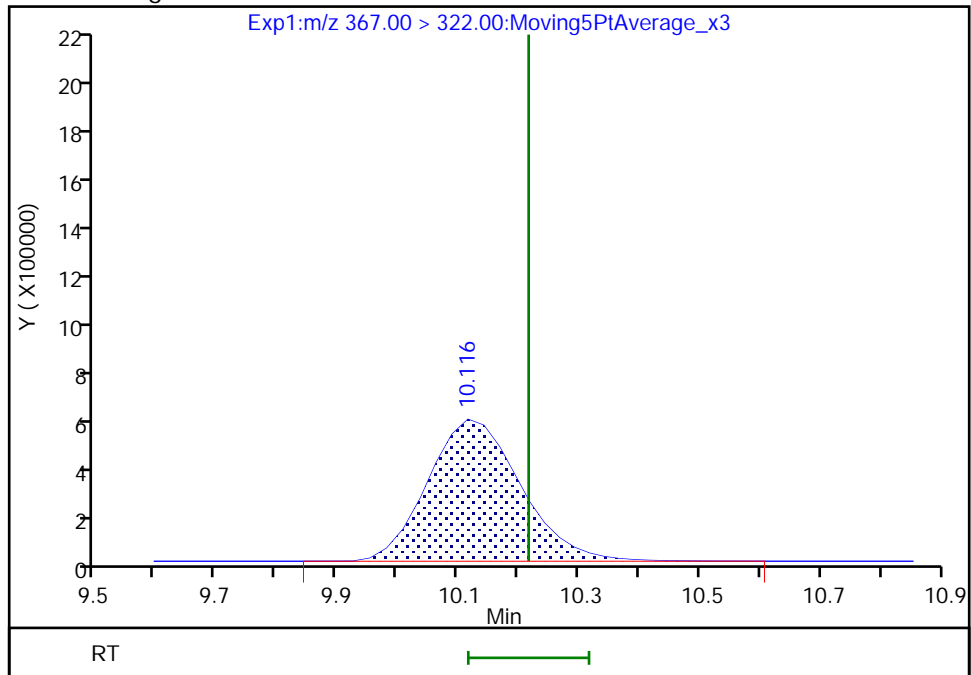
Not Detected  
Expected RT: 10.22

Processing Integration Results



Manual Integration Results

RT: 10.12  
Area: 6080140  
Amount: 0.267496  
Amount Units: ng/ml





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-448399/1-A  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_020.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 17:10  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_020.d  
 Lims ID: MB 320-448399/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 05-Jan-2021 17:10:34 ALS Bottle#: 20 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-448399/1-a (DI WATER) DUE  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 09:10:20 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 09:10:20  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
--------	----	--------	--------	--------	----------	--------------	---------------	------	-----	-------

D 12 13C3 HFPO-DA										a
287.00 > 169.00	9.706	9.812	-0.106		1386755	0.2813		113	41027	a

**QC Flag Legend**

Processing Flags

Review Flags

a - User Assigned ID

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_020.d

Injection Date: 05-Jan-2021 17:10:34

Instrument ID: A7\_N

Lims ID: MB 320-448399/1-A

Client ID:

Operator ID: abservice

ALS Bottle#: 20

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

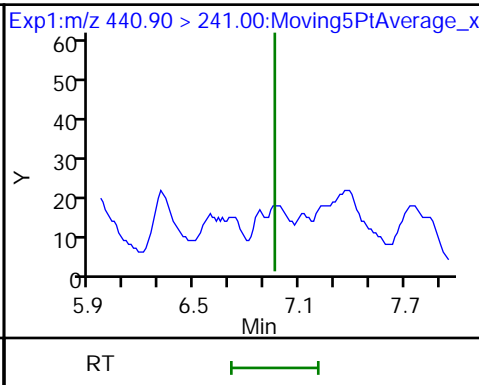
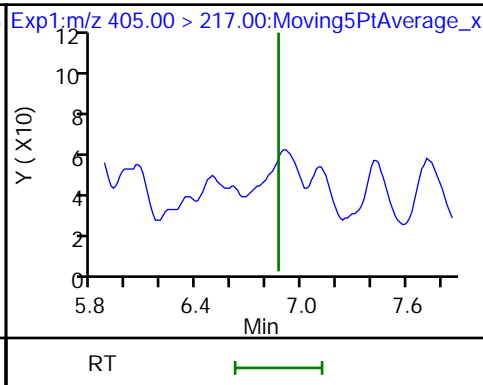
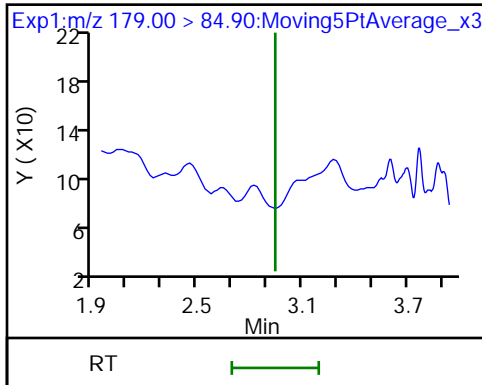
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

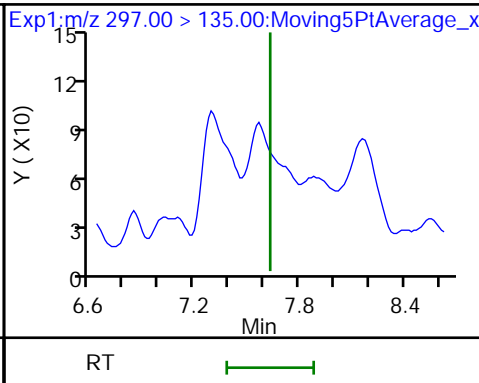
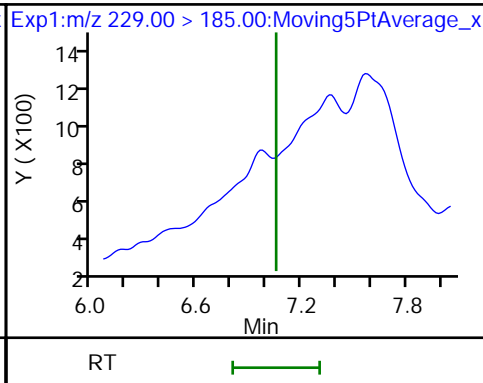
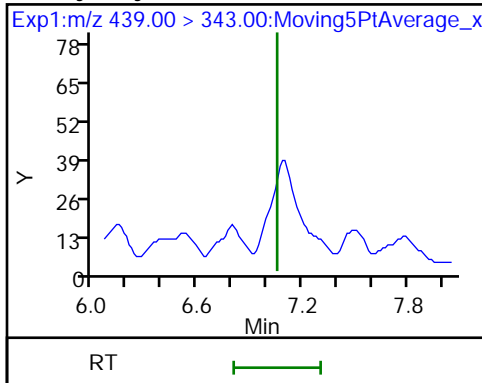
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

5 PMPA (ND)

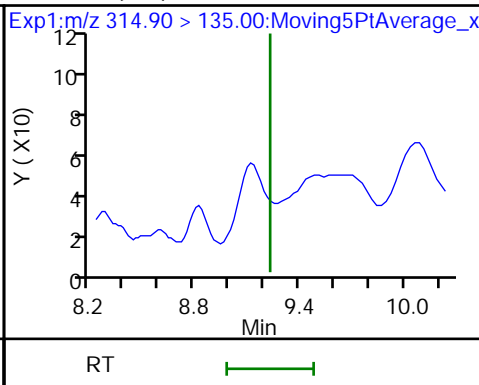
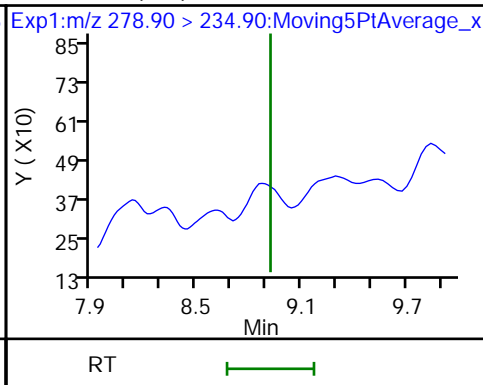
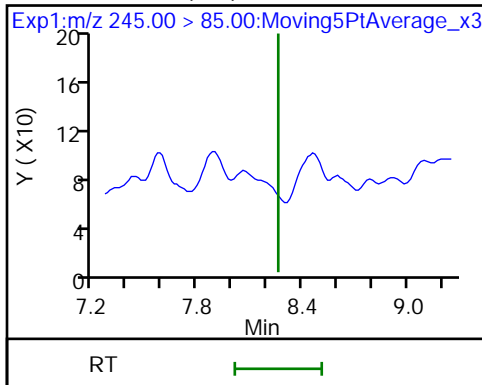
6 NVHOS (ND)



7 PFO2HxA (ND)

8 PEPA (ND)

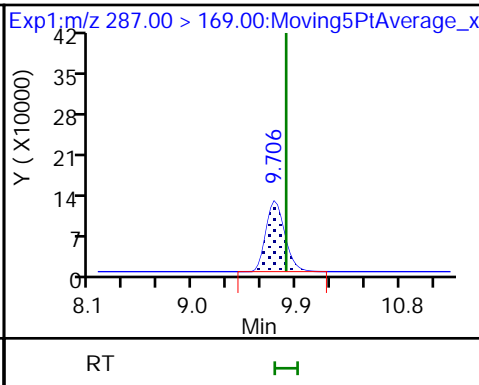
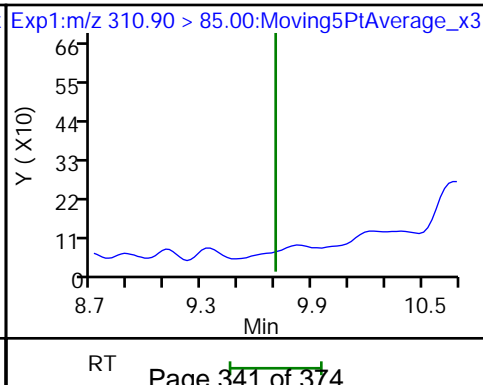
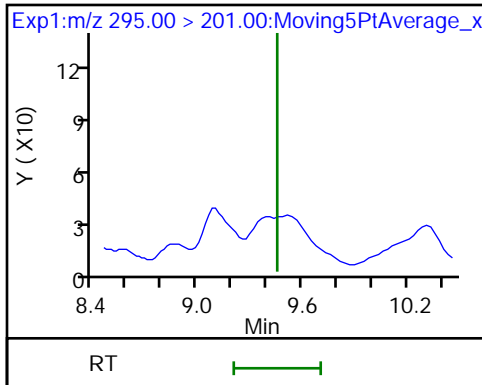
9 PES (ND)

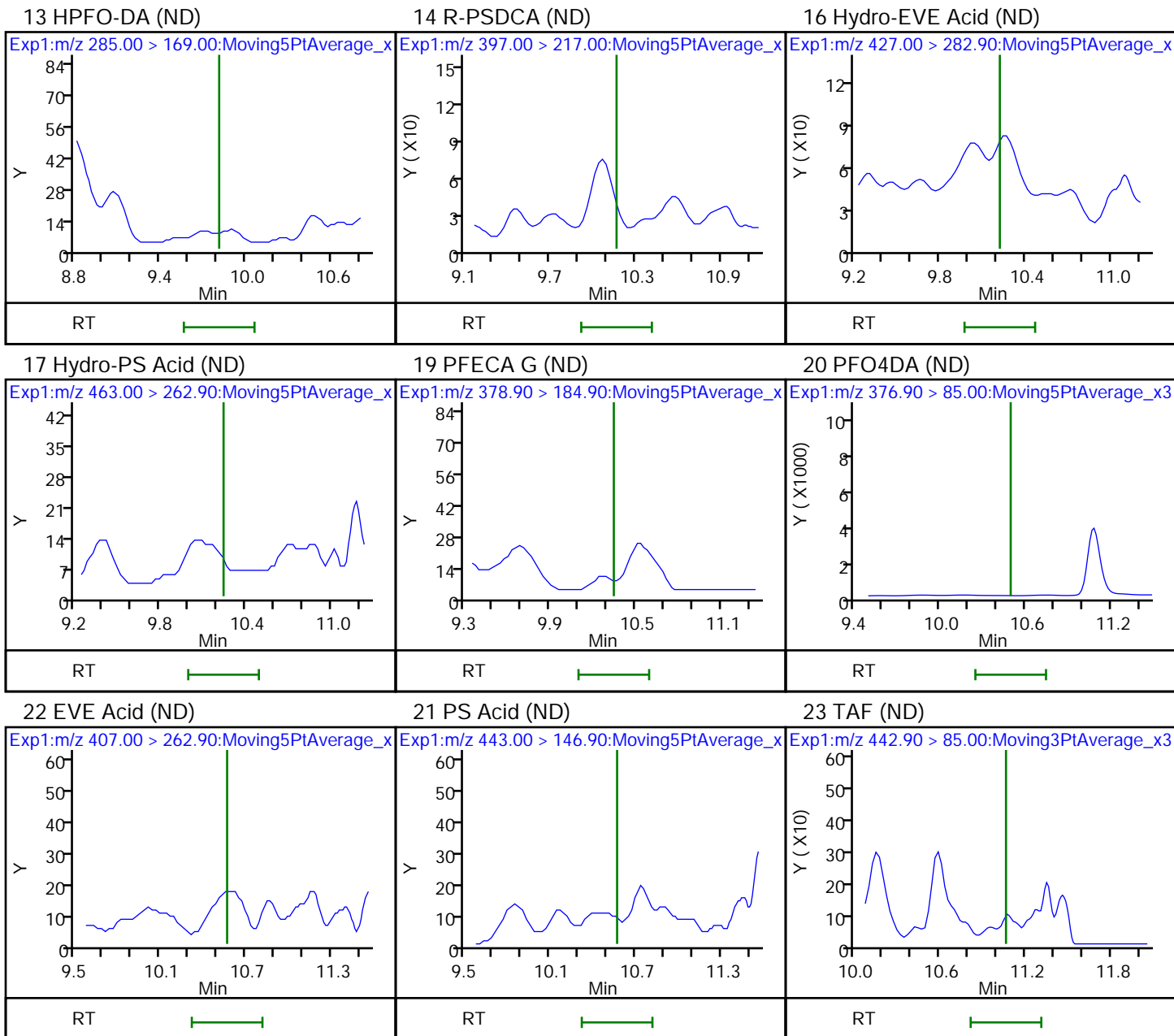


10 PFECA B (ND)

11 PFO3OA (ND)

D 12 13C3 HFPO-DA (M)





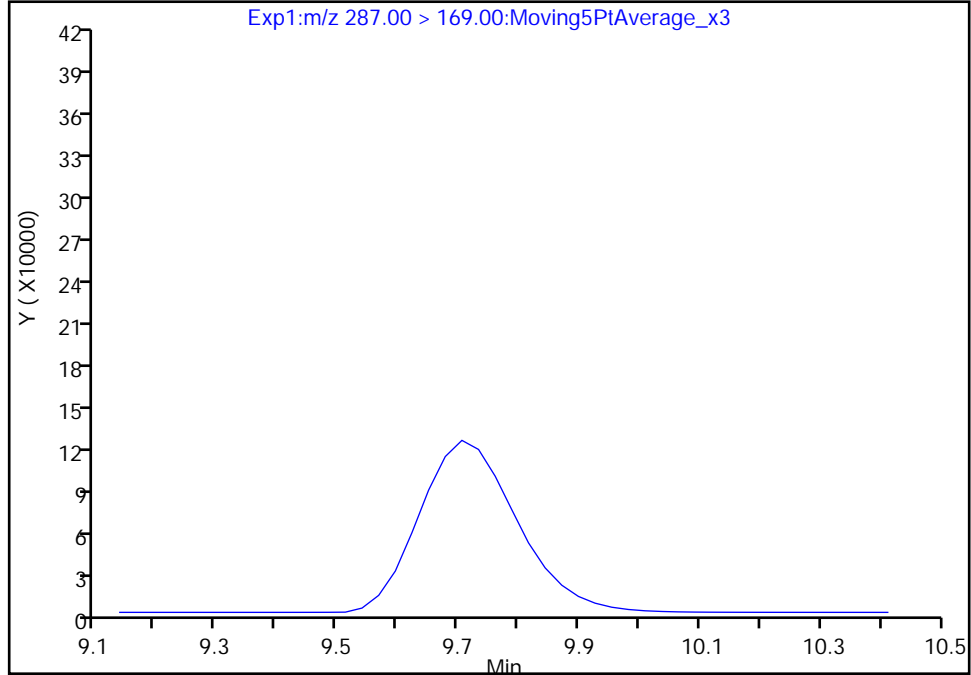
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_020.d  
Injection Date: 05-Jan-2021 17:10:34 Instrument ID: A7\_N  
Lims ID: MB 320-448399/1-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 20 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 12 13C3 HFPO-DA, CAS: STL02255  
Signal: 1

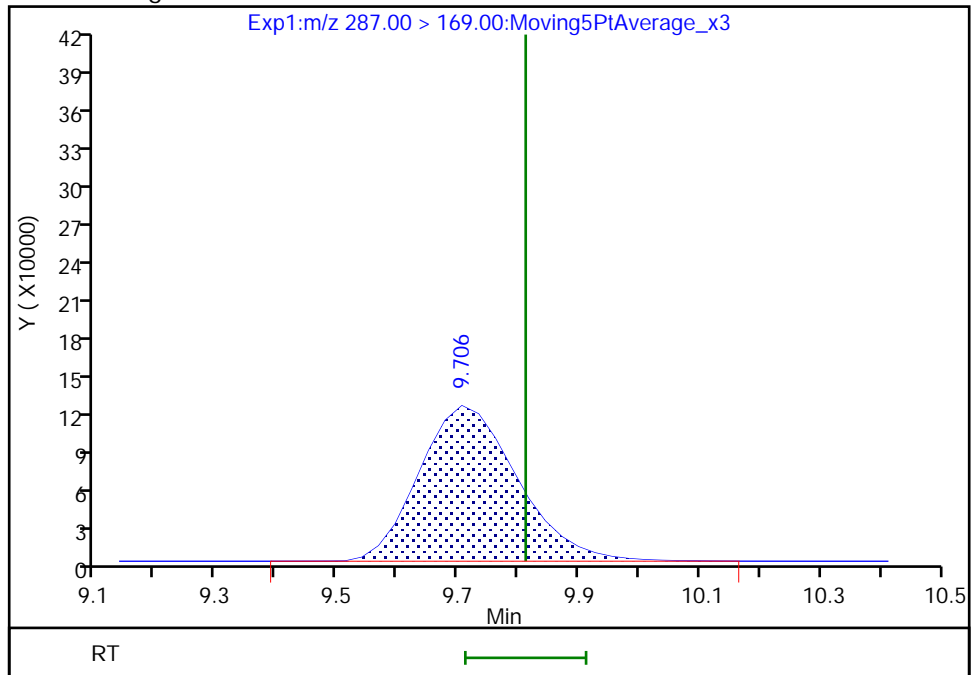
Not Detected  
Expected RT: 9.81

Processing Integration Results



RT: 9.71  
Area: 1386755  
Amount: 0.281348  
Amount Units: ng/ml

Manual Integration Results



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-448399/2-A  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_028.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 19:31  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.224		0.0020	
13252-13-6	HFPO-DA	0.206		0.0020	
773804-62-9	Hydro-EVE Acid	0.215		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.258		0.0020	
749836-20-2	Hydro-PS Acid	0.213		0.0020	
1132933-86-8	NVHOS	0.221		0.0020	
267239-61-2	PEPA	0.197		0.010	
113507-82-7	PES	0.216		0.0020	
151772-58-6	PFECA B	0.226		0.0020	
801212-59-9	PFECA G	0.195		0.0020	
674-13-5	PFMOAA	0.253		0.0020	
39492-88-1	PFO2HxA	0.222		0.0020	
39492-89-2	PFO3OA	0.218		0.0020	
39492-90-5	PFO4DA	0.197		0.0020	
39492-91-6	PFO5DA	0.169		0.0020	
13140-29-9	PMPA	0.211		0.020	
29311-67-9	PS Acid	0.222		0.0020	
2416366-22-6	R-EVE	0.238		0.0020	
2416366-18-0	R-PSDA	0.244		0.0020	
2416366-21-5	R-PSDCA	0.213		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	111		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
 Lims ID: LCS 320-448399/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 05-Jan-2021 19:31:19 ALS Bottle#: 28 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-448399/2-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 11:51:42 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 11:51:49  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	2.575	2.943	-0.368		1565201	0.1267		127	3698	a
2 R-EVE										M
405.00 > 217.00	6.622	6.868	-0.246		599190	0.1192		119	9623	M
3 R-PSDA										M
440.90 > 241.00	6.732	6.958	-0.226		312128	0.1222		122	6699	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.859	7.054	-0.195		1466658	0.1288		129	25224	M
5 PMPA										M
229.00 > 185.00	6.872	7.054	-0.182		1213714	0.1056		106	1815	M
6 NVHOS										M
297.00 > 135.00	7.511	7.632	-0.121		1768193	0.1105		110	20806	M
7 PFO2HxA										
245.00 > 85.00	8.145	8.261	-0.116		1616499	0.1108		111	14904	
8 PEPA										
278.90 > 234.90	8.840	8.922	-0.082		933632	0.0983		98.3	3223	
9 PES										
314.90 > 135.00	9.140	9.231	-0.091		9491999	0.1081		108	163660	
10 PFECA B										
295.00 > 201.00	9.368	9.455	-0.087		1207341	0.1131		113	38686	
11 PFO3OA										
310.90 > 85.00	9.598	9.701	-0.103		1329776	0.1091		109	18915	
D 12 13C3 HFPO-DA										a
287.00 > 169.00	9.709	9.812	-0.103		1372131	0.2784		111	40204	a
13 HPFO-DA										
285.00 > 169.00	9.709	9.812	-0.103	1.000	641877	0.1028		103	18768	
14 R-PSDCA										
397.00 > 217.00	10.067	10.164	-0.097		11395997	0.1065		106	174718	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid										
427.00 > 282.90	10.120	10.217	-0.097		6174754	0.1076		108	81521	
17 Hydro-PS Acid										
463.00 > 262.90	10.146	10.243	-0.097		3812729	0.1067		107	96061	
19 PFECA G										
378.90 > 184.90	10.247	10.345	-0.098		2468175	0.0976		97.6	79589	
20 PFO4DA										
376.90 > 85.00	10.371	10.494	-0.123		1326993	0.0986		98.6	10111	
22 EVE Acid										
407.00 > 262.90	10.445	10.568	-0.123		6158186	0.1121		112	122580	
21 PS Acid										
443.00 > 146.90	10.445	10.568	-0.123		1831663	0.1108		111	61067	
23 TAF										
442.90 > 85.00	10.923	11.060	-0.137		302495	0.0844		84.4	1104	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID



Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d

Injection Date: 05-Jan-2021 19:31:19

Instrument ID: A7\_N

Lims ID: LCS 320-448399/2-A

Client ID:

Operator ID: abservice

ALS Bottle#: 28

Worklist Smp#: 11

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

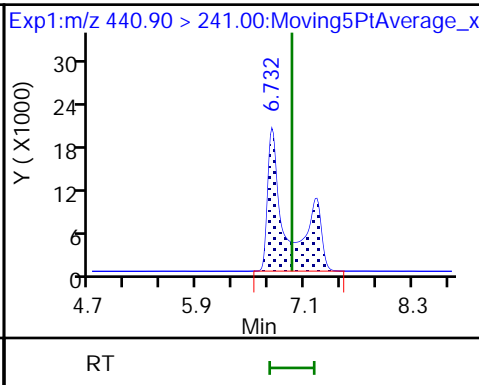
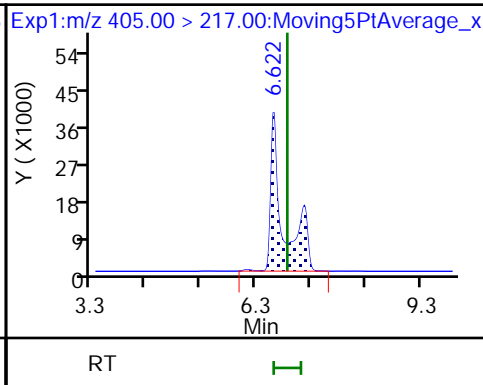
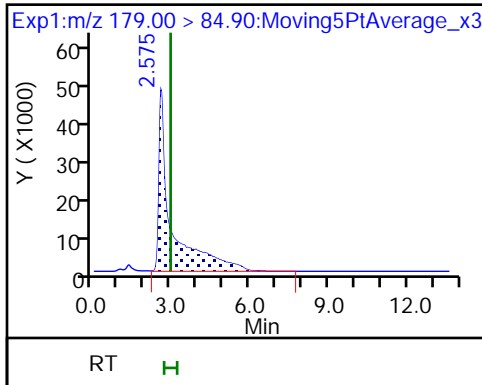
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

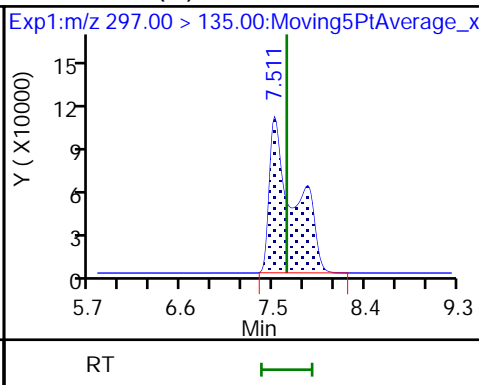
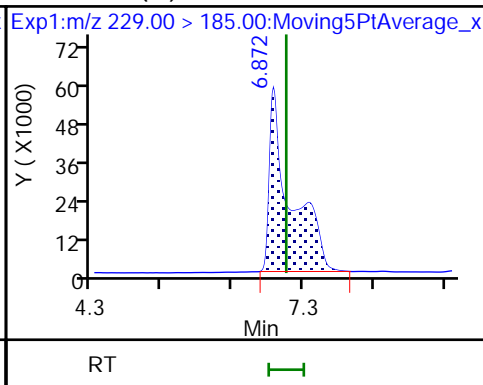
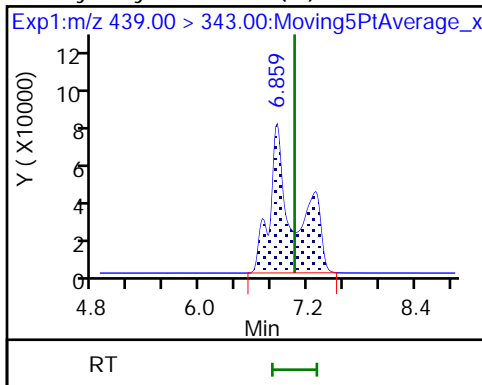
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

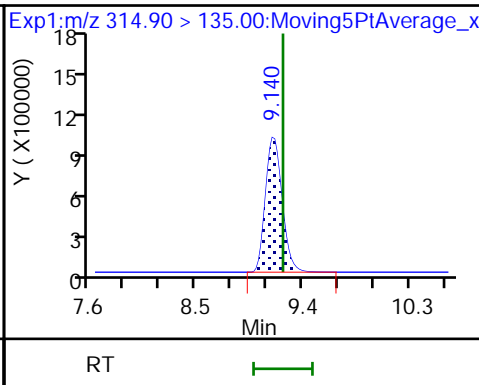
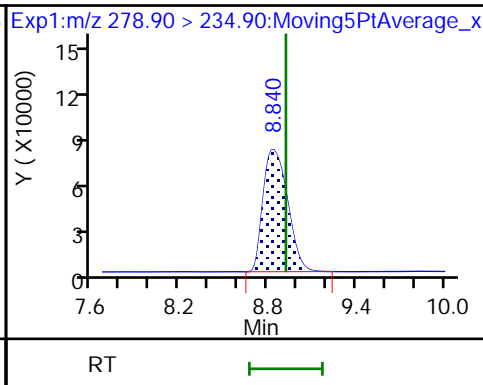
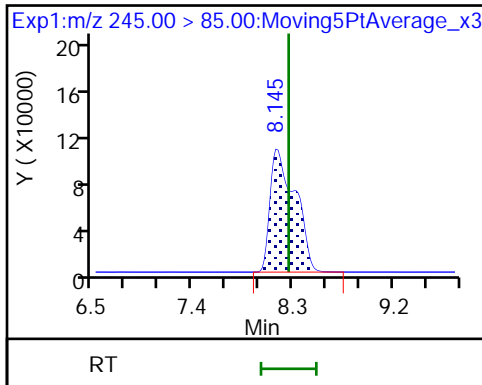
6 NVHOS (M)



7 PFO2HxA

8 PEPA

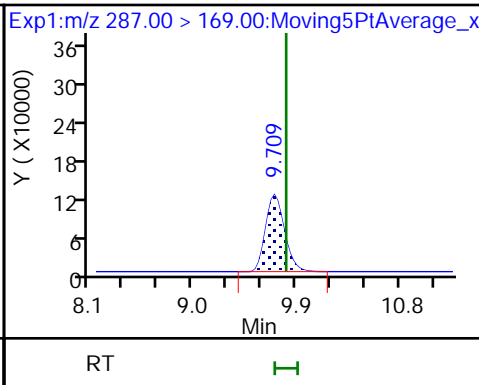
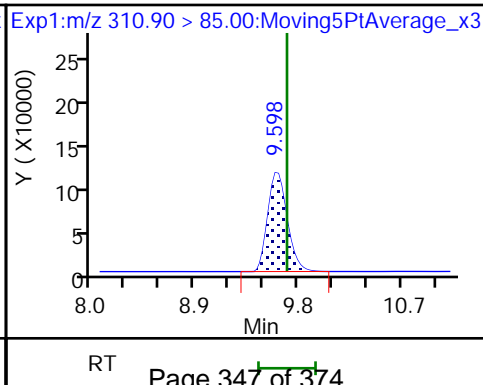
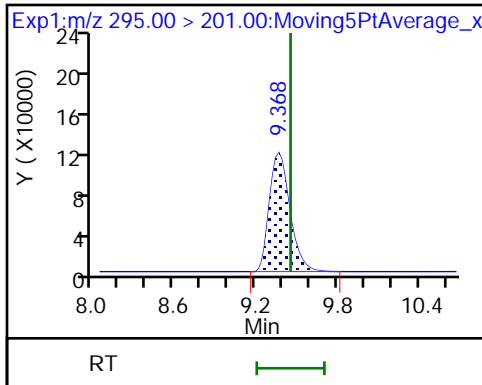
9 PES

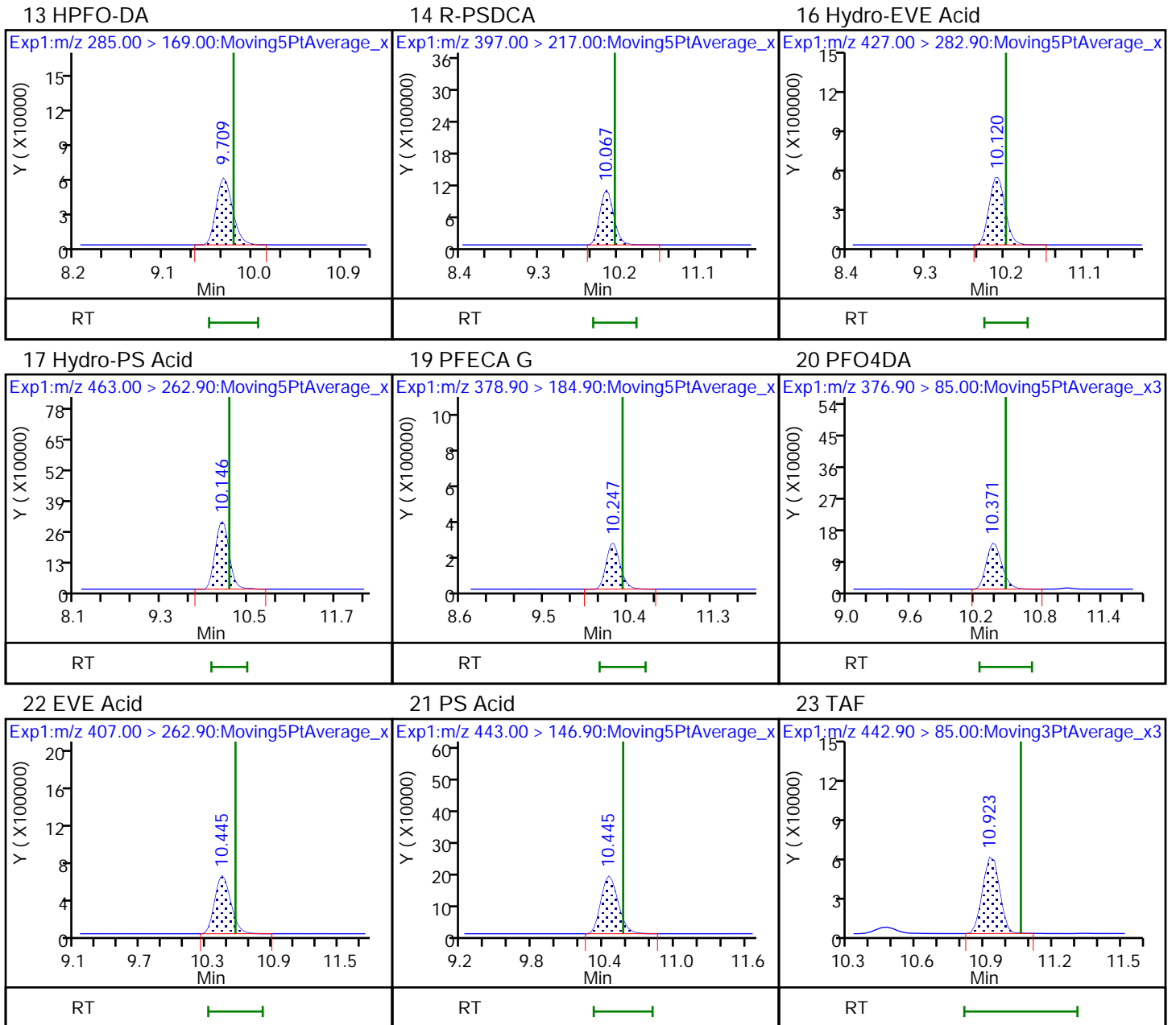


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA (M)





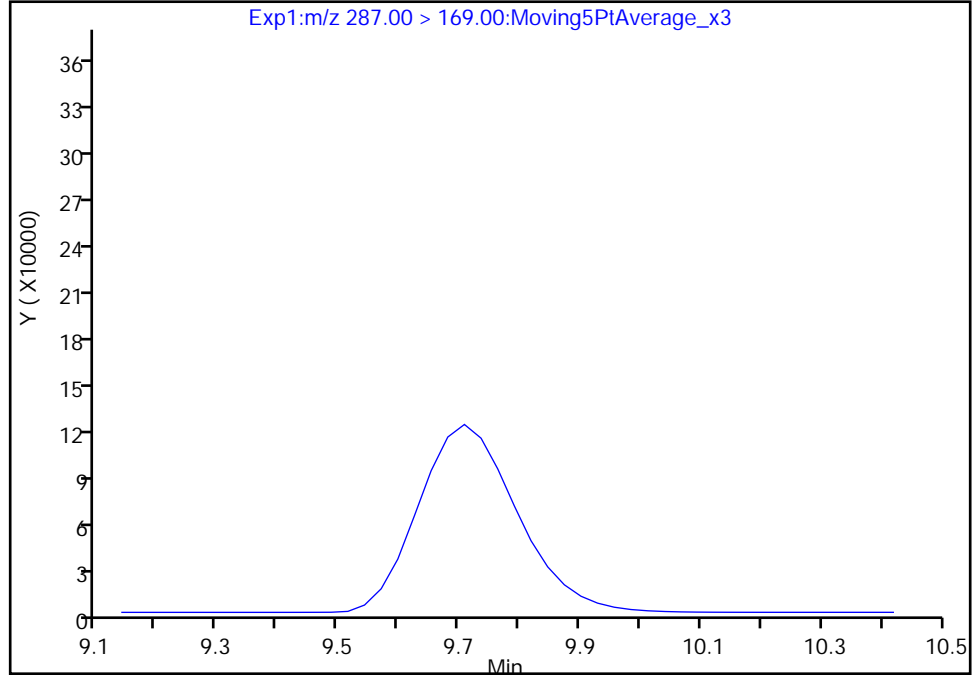
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

**D 12 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

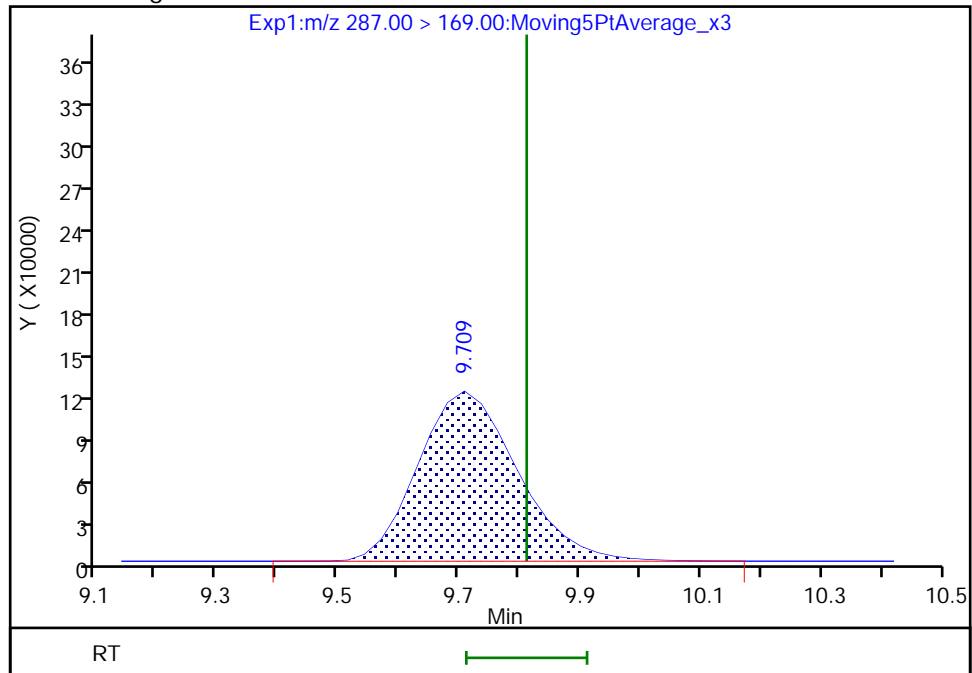
Not Detected  
Expected RT: 9.81

Processing Integration Results



RT: 9.71  
Area: 1372131  
Amount: 0.278381  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:02:11  
Audit Action: Assigned Compound ID

Eurofins TestAmerica, Sacramento

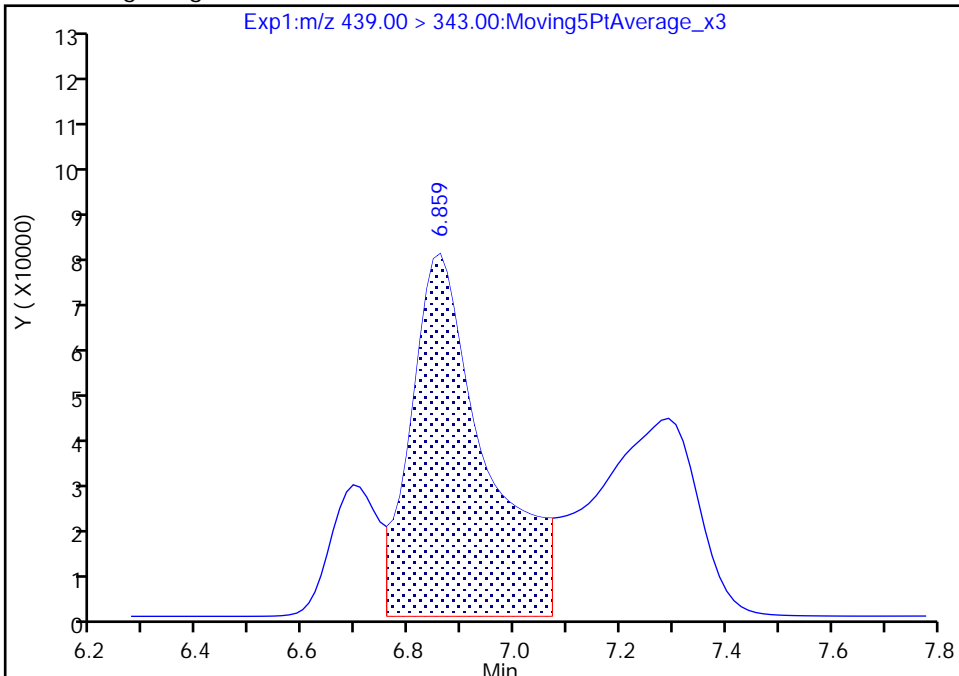
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Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

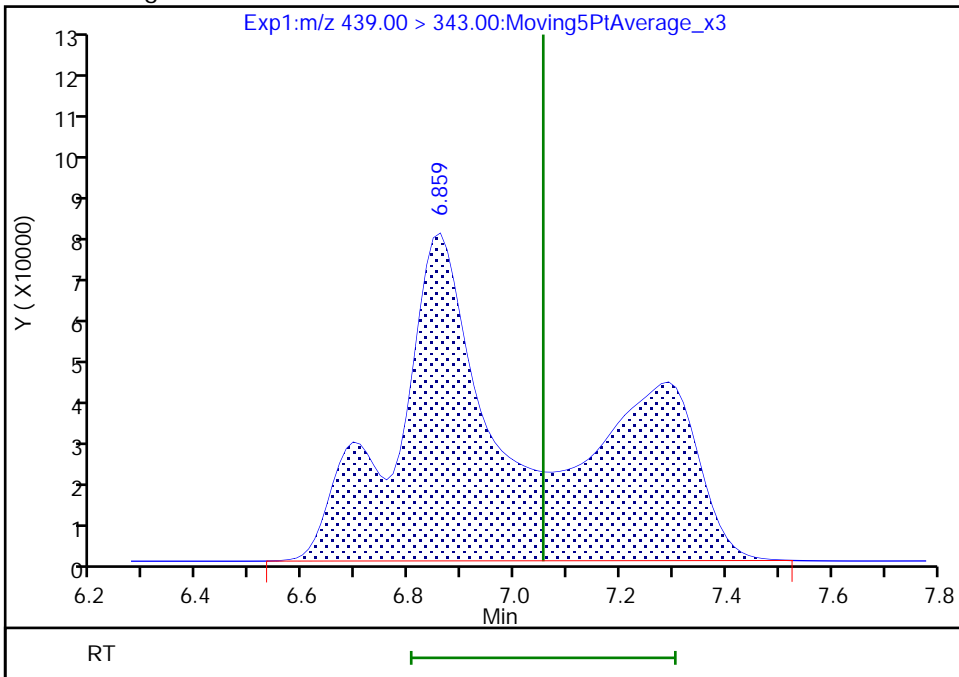
RT: 6.86  
Area: 736299  
Amount: 0.064673  
Amount Units: ng/ml

Processing Integration Results



RT: 6.86  
Area: 1466658  
Amount: 0.128825  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:39  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 350 of 374

Euofins TestAmerica, Sacramento

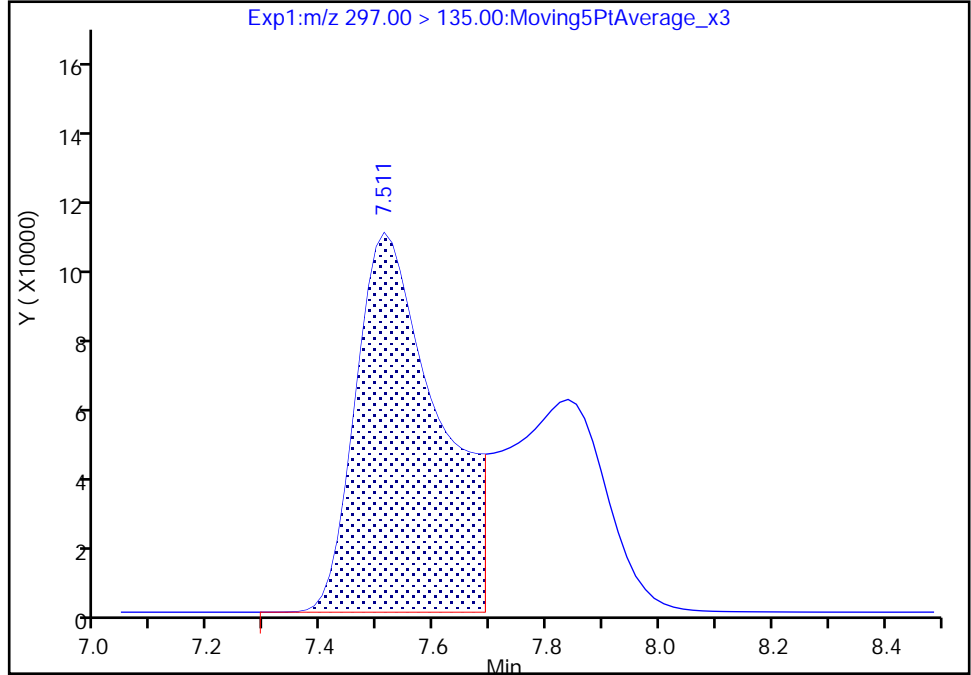
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Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

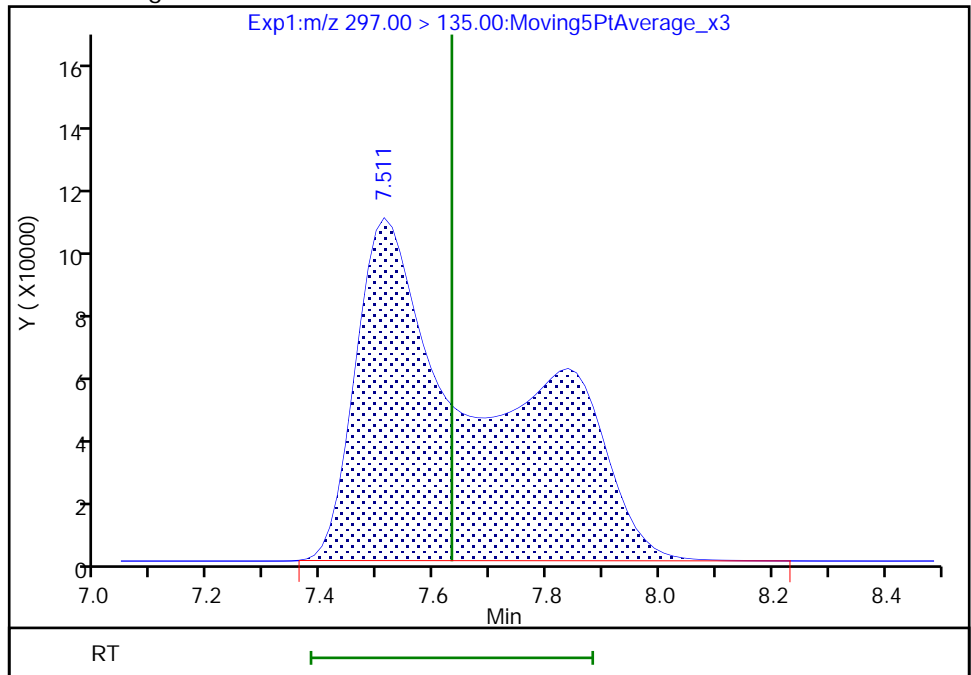
RT: 7.51  
Area: 1052339  
Amount: 0.065736  
Amount Units: ng/ml

Processing Integration Results



RT: 7.51  
Area: 1768193  
Amount: 0.110452  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:44  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

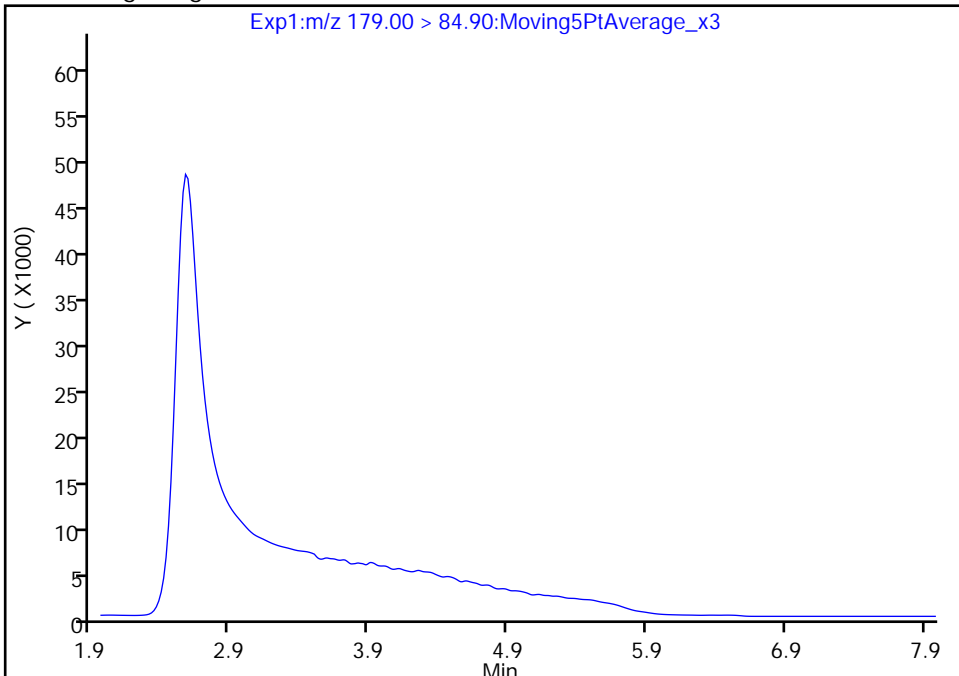
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

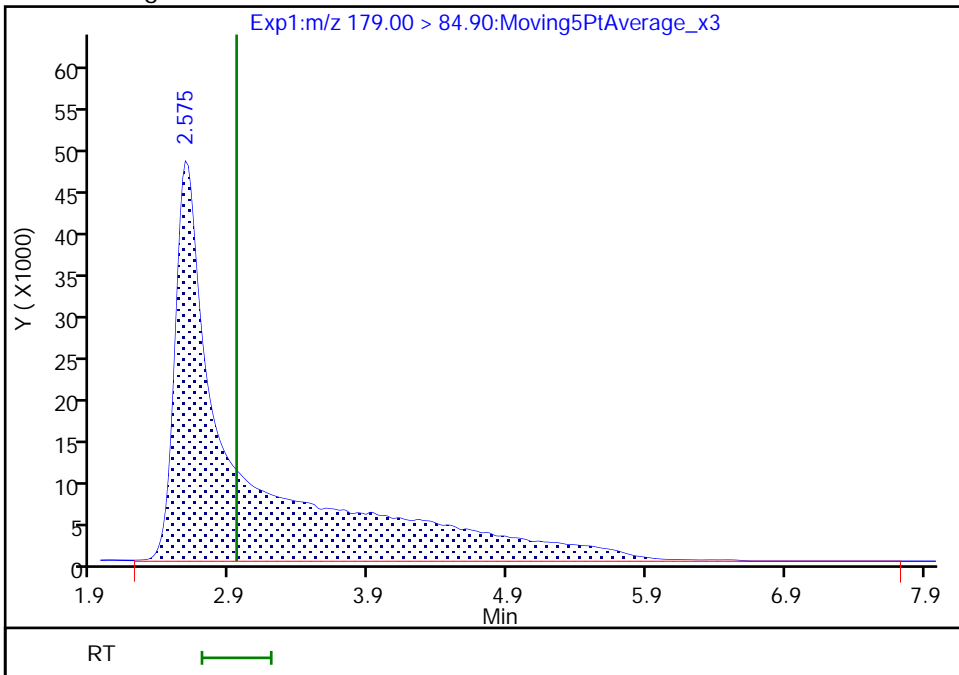
Not Detected  
Expected RT: 2.94

Processing Integration Results



RT: 2.57  
Area: 1565201  
Amount: 0.126670  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:18  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

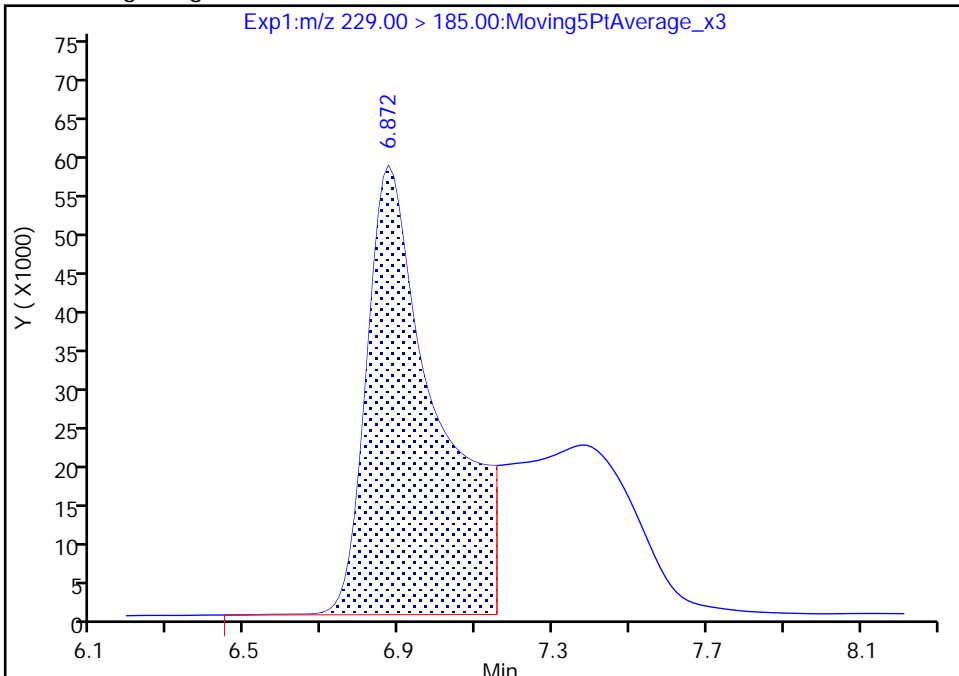
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
 Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
 Lims ID: LCS 320-448399/2-A  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

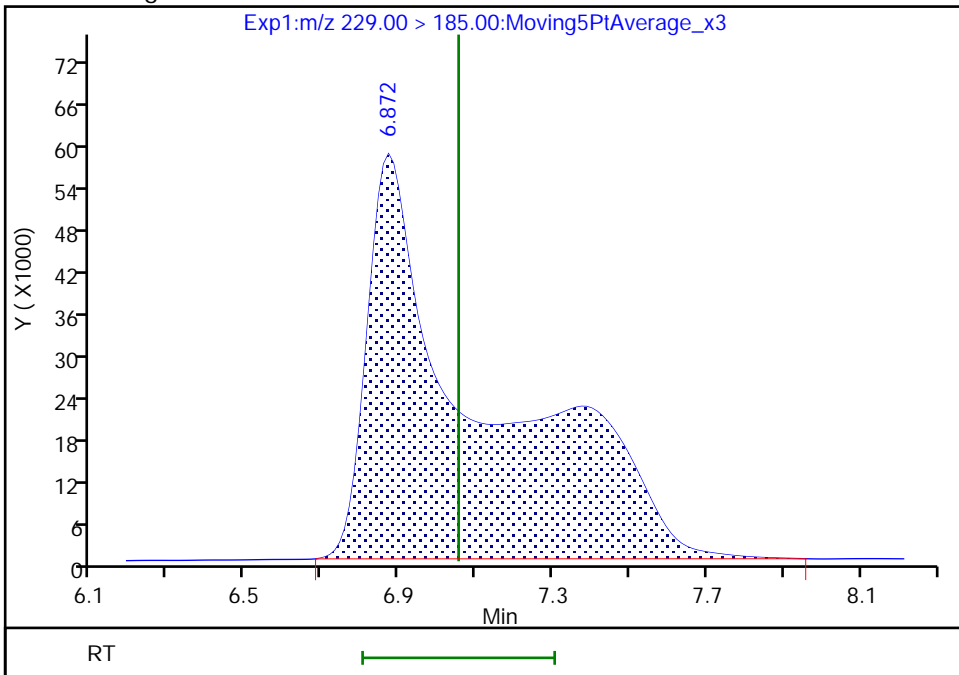
RT: 6.87  
 Area: 732229  
 Amount: 0.063730  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
 Area: 1213714  
 Amount: 0.105637  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:41  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

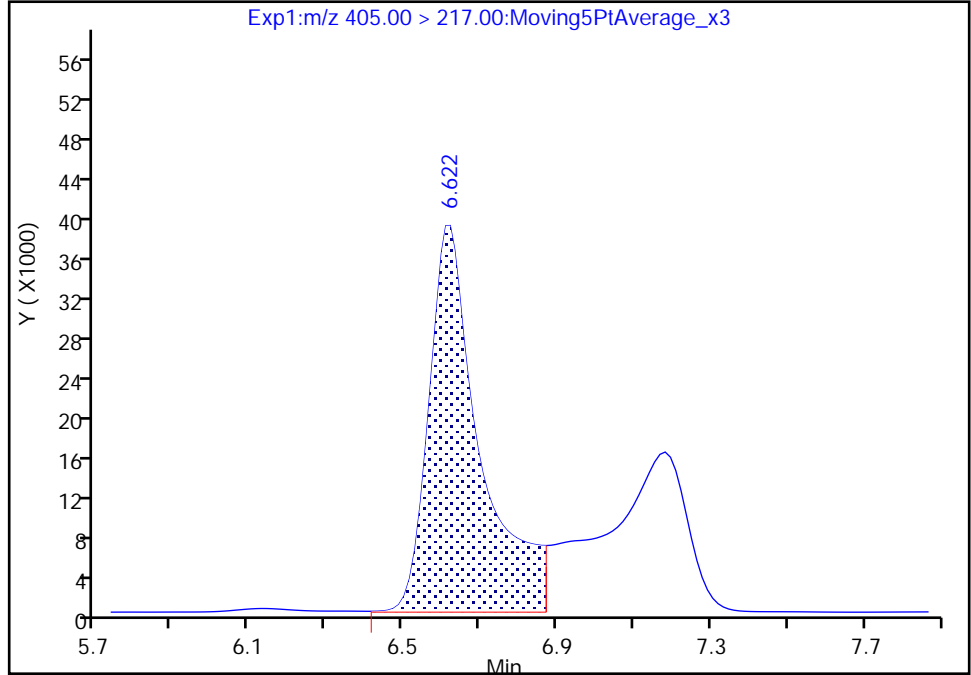
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

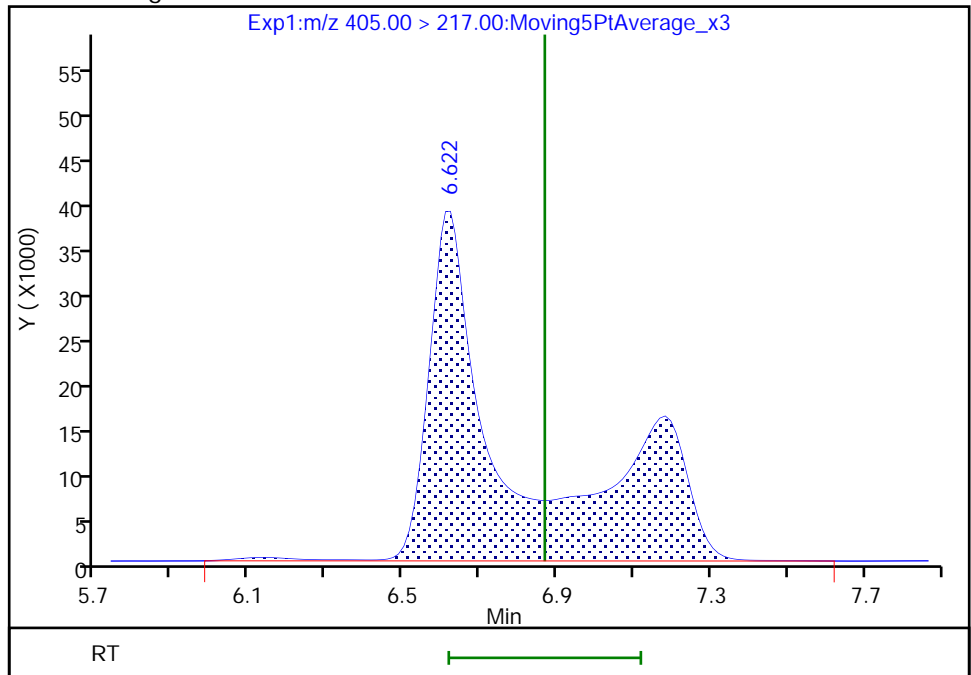
RT: 6.62  
Area: 356504  
Amount: 0.070947  
Amount Units: ng/ml

Processing Integration Results



RT: 6.62  
Area: 599190  
Amount: 0.119243  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:30  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

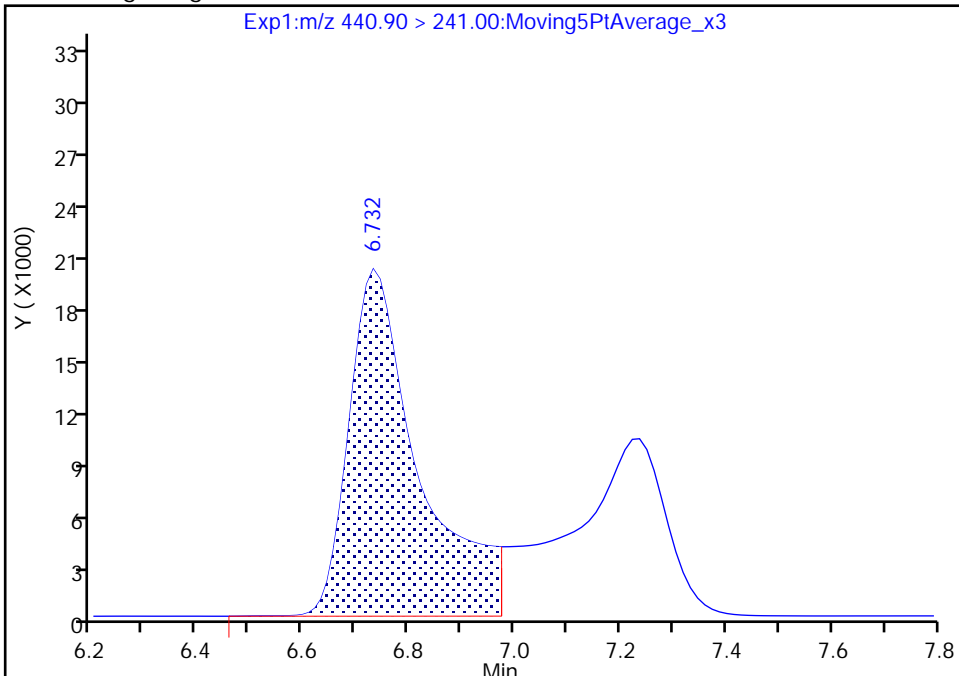
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_028.d  
Injection Date: 05-Jan-2021 19:31:19 Instrument ID: A7\_N  
Lims ID: LCS 320-448399/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 28 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

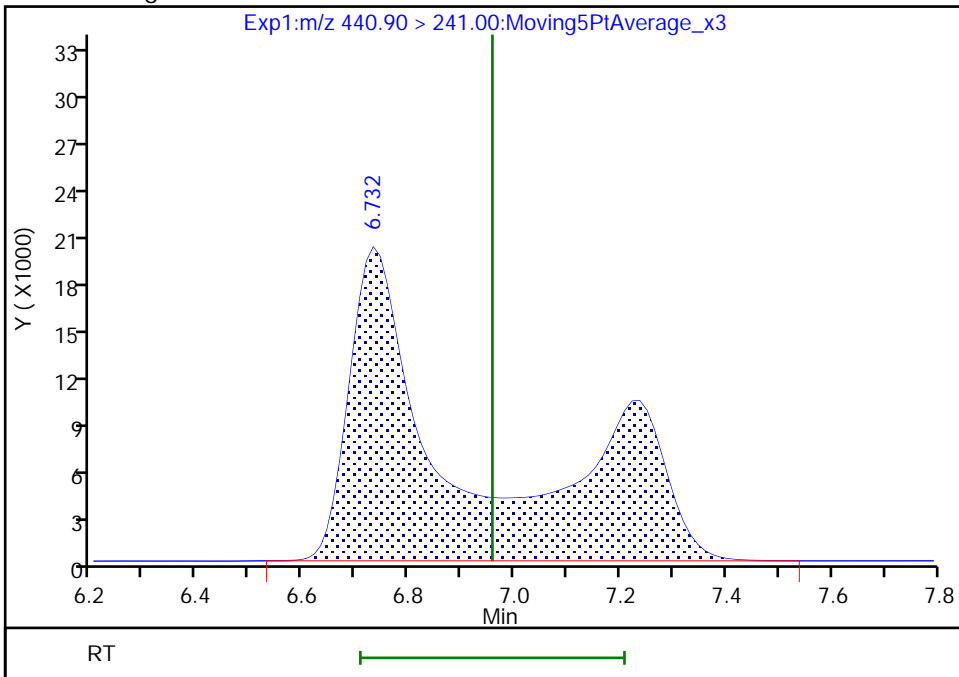
RT: 6.73  
Area: 184464  
Amount: 0.072237  
Amount Units: ng/ml

Processing Integration Results



RT: 6.73  
Area: 312128  
Amount: 0.122231  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:01:34  
Audit Action: Manually Integrated

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-448399/3-A  
 Matrix: Water Lab File ID: 2021.01.05\_A7\_TB3\_B\_029.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/05/2021 04:07  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/05/2021 19:48  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 448523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.230		0.0020	
13252-13-6	HFPO-DA	0.213		0.0020	
773804-62-9	Hydro-EVE Acid	0.225		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.236		0.0020	
749836-20-2	Hydro-PS Acid	0.221		0.0020	
1132933-86-8	NVHOS	0.215		0.0020	
267239-61-2	PEPA	0.202		0.010	
113507-82-7	PES	0.213		0.0020	
151772-58-6	PFECA B	0.216		0.0020	
801212-59-9	PFECA G	0.187		0.0020	
674-13-5	PFMOAA	0.246		0.0020	
39492-88-1	PFO2HxA	0.216		0.0020	
39492-89-2	PFO3OA	0.221		0.0020	
39492-90-5	PFO4DA	0.224		0.0020	
39492-91-6	PFO5DA	0.177		0.0020	
13140-29-9	PMPA	0.203		0.020	
29311-67-9	PS Acid	0.218		0.0020	
2416366-22-6	R-EVE	0.230		0.0020	
2416366-18-0	R-PSDA	0.226		0.0020	
2416366-21-5	R-PSDCA	0.216		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
 Lims ID: LCSD 320-448399/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 05-Jan-2021 19:48:53 ALS Bottle#: 29 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-448399/3-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 06-Jan-2021 11:51:42 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1634

First Level Reviewer: dadunj Date: 06-Jan-2021 11:59:01

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	2.575	2.943	-0.368		1522003	0.1232		123	4525	a
2 R-EVE										M
405.00 > 217.00	6.610	6.868	-0.258		577185	0.1149		115	8957	M
3 R-PSDA										M
440.90 > 241.00	6.732	6.958	-0.226		288635	0.1130		113	6048	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.846	7.054	-0.208		1344798	0.1181		118	23082	M
5 PMPA										M
229.00 > 185.00	6.859	7.054	-0.195		1163536	0.1013		101	1809	M
6 NVHOS										M
297.00 > 135.00	7.511	7.632	-0.121		1720384	0.1075		107	19783	M
7 PFO2HxA										
245.00 > 85.00	8.144	8.261	-0.117		1578561	0.1082		108	14672	
8 PEPA										
278.90 > 234.90	8.828	8.922	-0.094		959450	0.1010		101	3693	
9 PES										
314.90 > 135.00	9.147	9.231	-0.084		9350996	0.1065		107	159868	
10 PFECA B										
295.00 > 201.00	9.379	9.455	-0.076		1151492	0.1079		108	36008	
11 PFO3OA										
310.90 > 85.00	9.613	9.701	-0.088		1346929	0.1105		111	19432	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.724	9.812	-0.088		1293319	0.2624		105	37647	
13 HPFO-DA										
285.00 > 169.00	9.724	9.812	-0.088	1.000	627850	0.1067		107	18383	
14 R-PSDCA										
397.00 > 217.00	10.080	10.164	-0.084		11545275	0.1079		108	179267	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid	427.00 > 282.90	10.133	10.217	-0.084	6444903	0.1124		112	85830	
17 Hydro-PS Acid	463.00 > 262.90	10.159	10.243	-0.084	3939974	0.1103		110	99193	
19 PFECA G	378.90 > 184.90	10.259	10.345	-0.086	2363374	0.0935		93.5	76876	
20 PFO4DA	376.90 > 85.00	10.383	10.494	-0.111	1507907	0.1120		112	13546	
22 EVE Acid	407.00 > 262.90	10.458	10.568	-0.110	6307453	0.1149		115	157443	
21 PS Acid	443.00 > 146.90	10.458	10.568	-0.110	1800187	0.1089		109	60189	
23 TAF	442.90 > 85.00	10.954	11.060	-0.106	317068	0.0885		88.5	1068	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d

Injection Date: 05-Jan-2021 19:48:53

Instrument ID: A7\_N

Lims ID: LCSD 320-448399/3-A

Client ID:

Operator ID: abservice

ALS Bottle#: 29

Worklist Smp#: 12

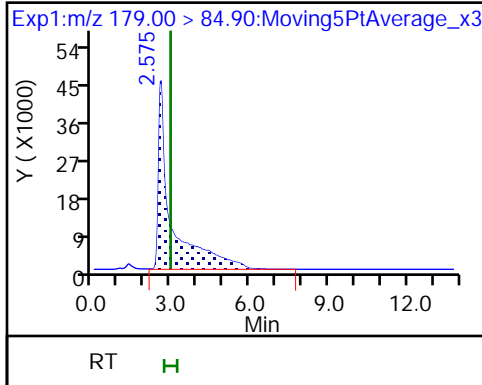
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

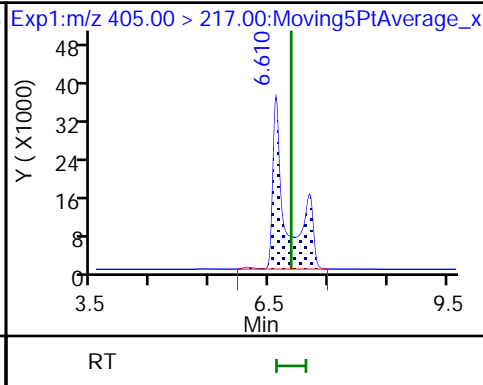
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

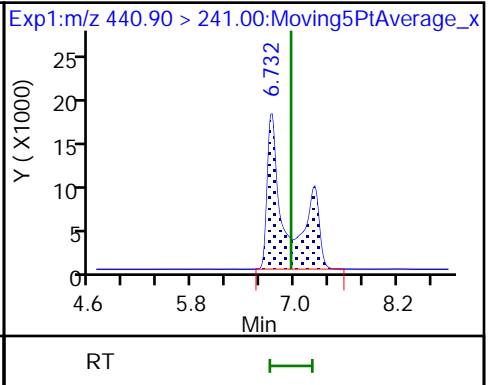
1 PFMOAA (M)



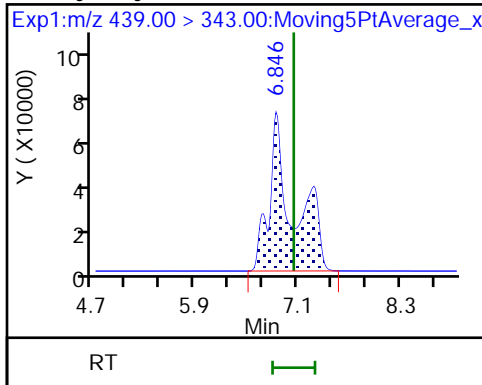
2 R-EVE (M)



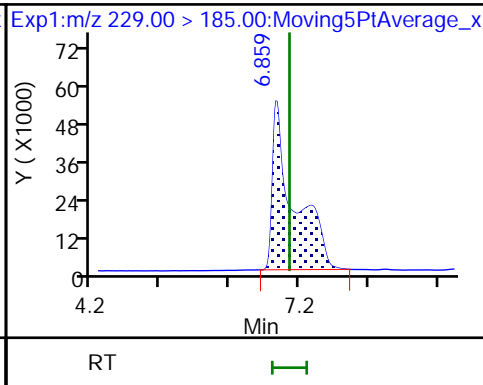
3 R-PSDA (M)



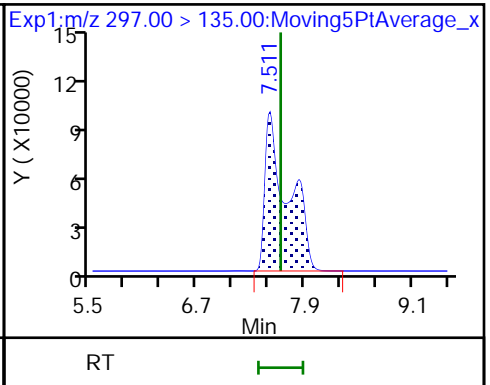
4 Hydrolyzed PSDA (M)



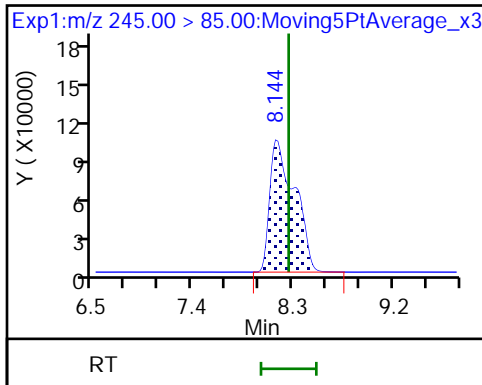
5 PMPA (M)



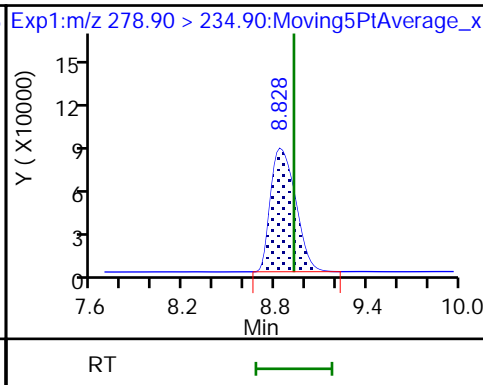
6 NVHOS (M)



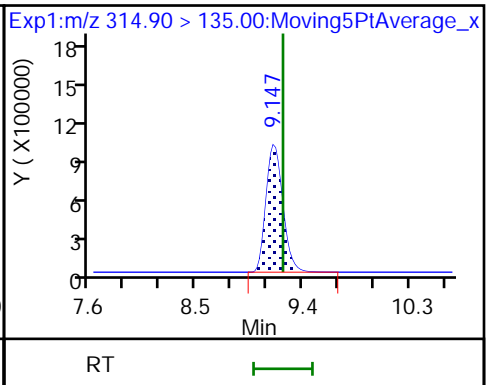
7 PFO2HxA



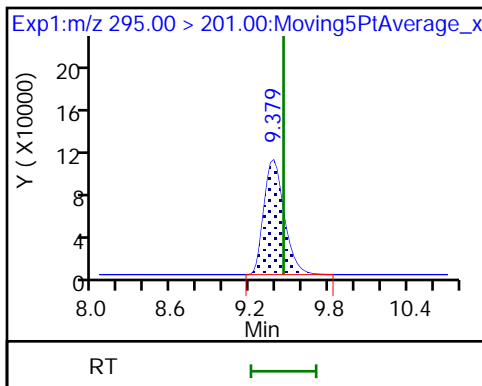
8 PEPA



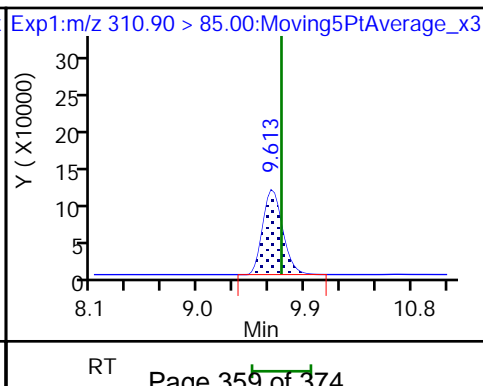
9 PES



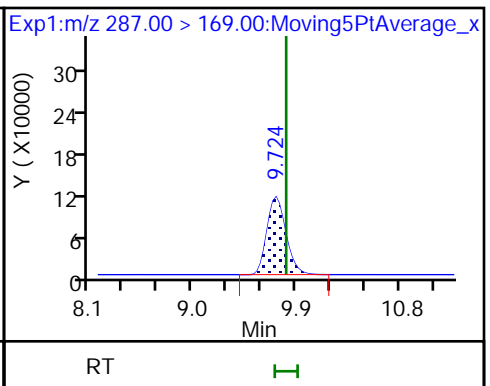
10 PFECA B

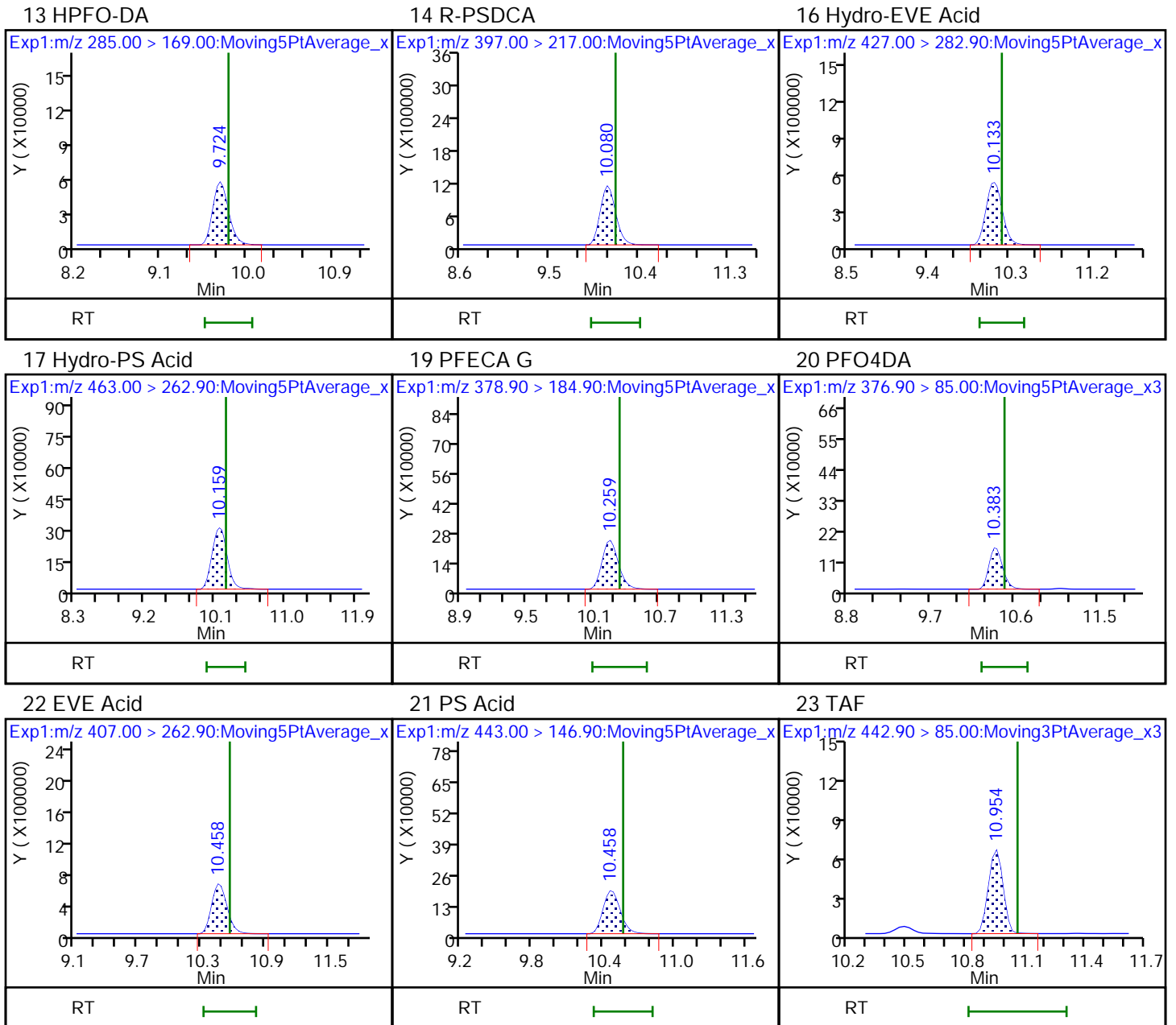


11 PFO3OA



D 12 13C3 HFPO-DA





Eurofins TestAmerica, Sacramento

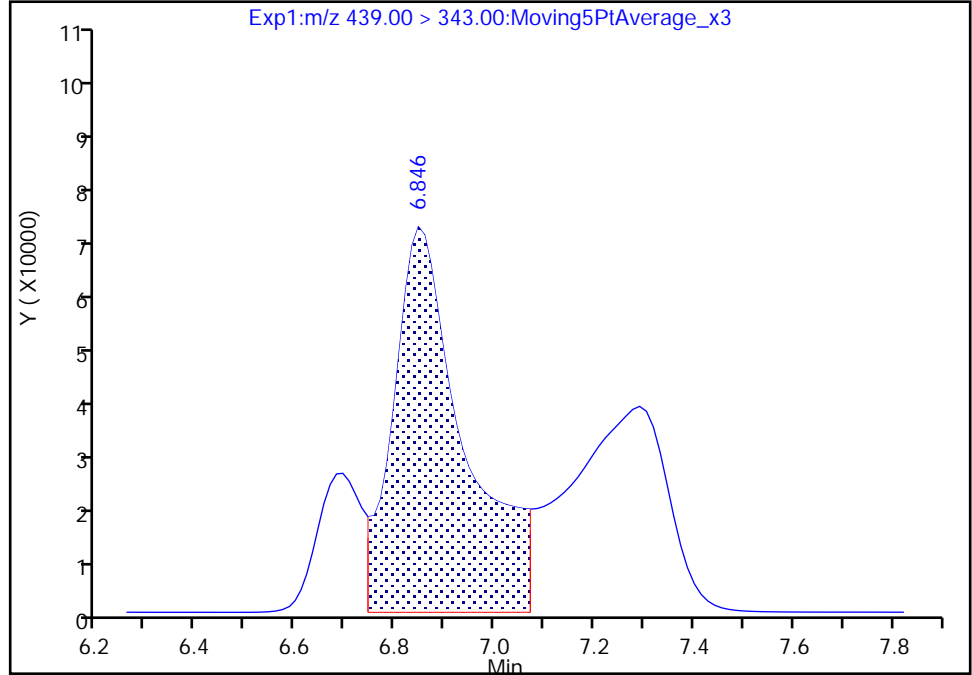
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

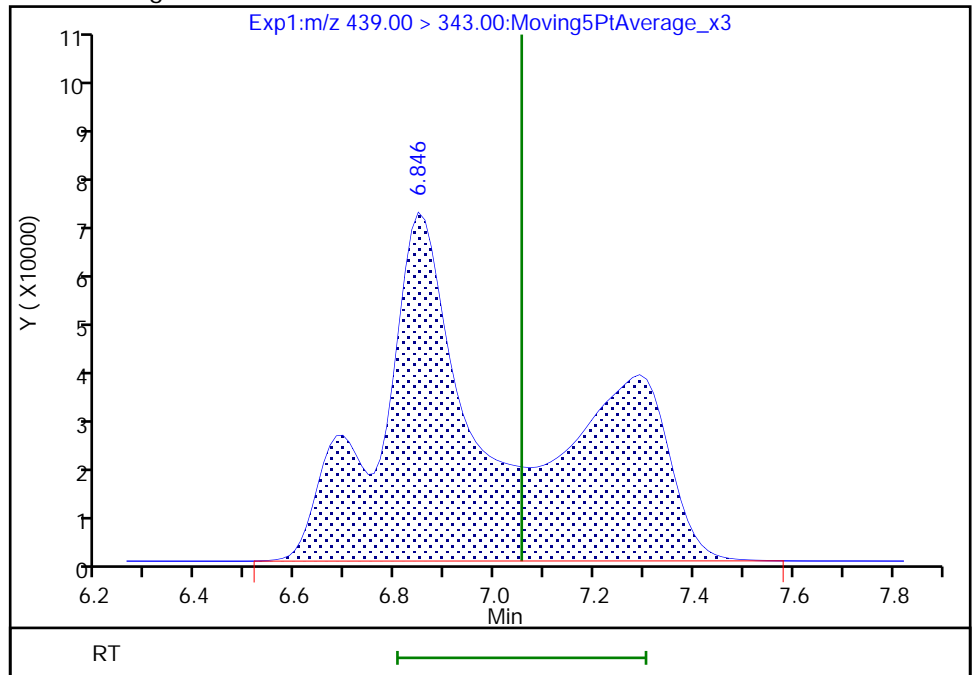
RT: 6.85  
Area: 683397  
Amount: 0.060026  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 1344798  
Amount: 0.118121  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:13:57  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

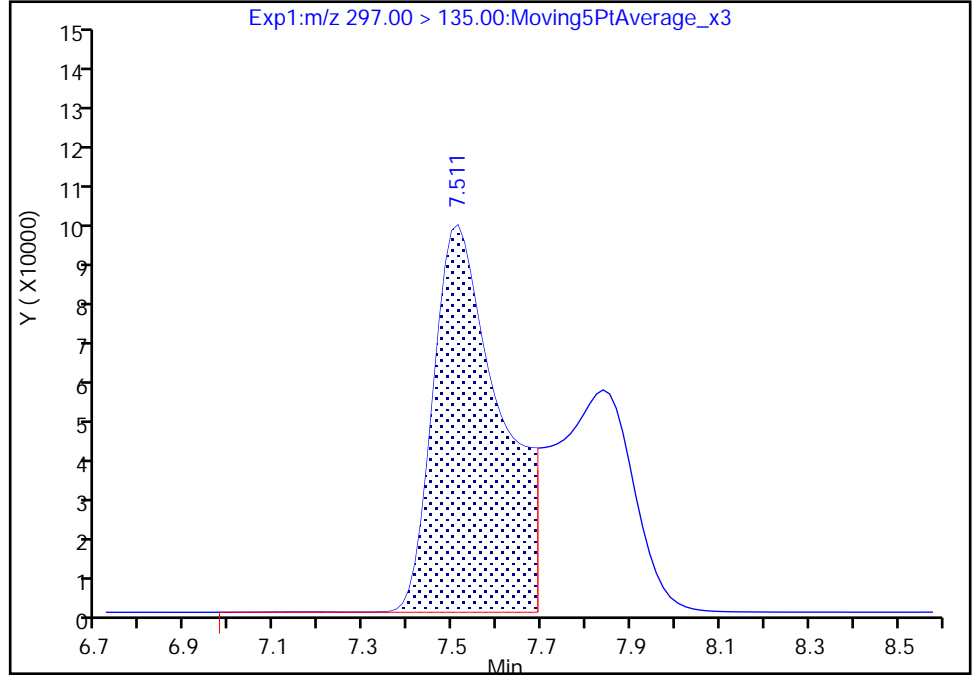
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

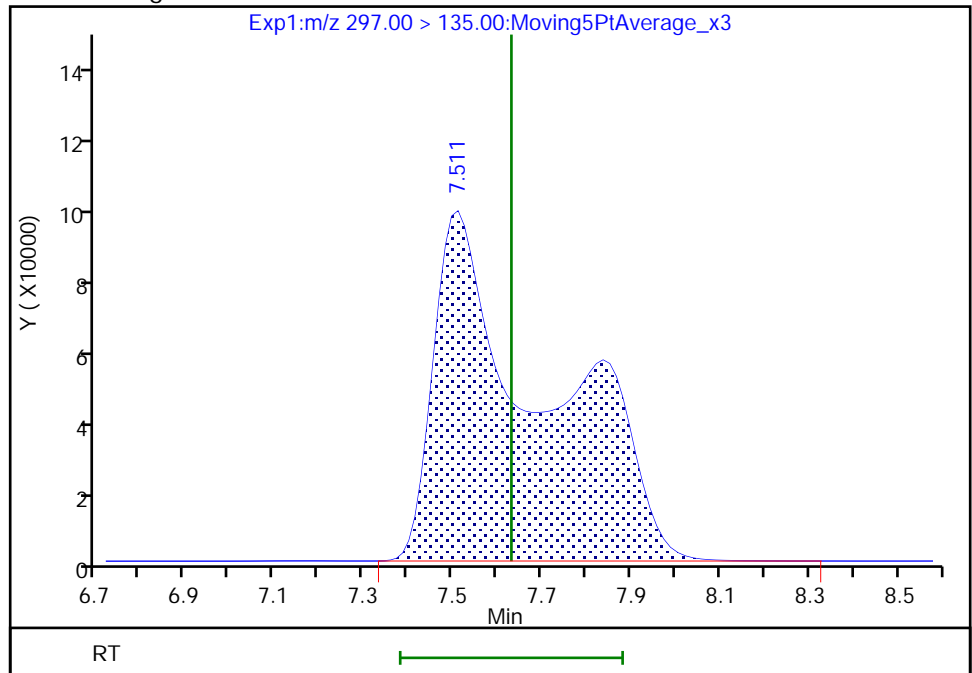
RT: 7.51  
Area: 1024487  
Amount: 0.063996  
Amount Units: ng/ml

Processing Integration Results



RT: 7.51  
Area: 1720384  
Amount: 0.107466  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:14:04  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

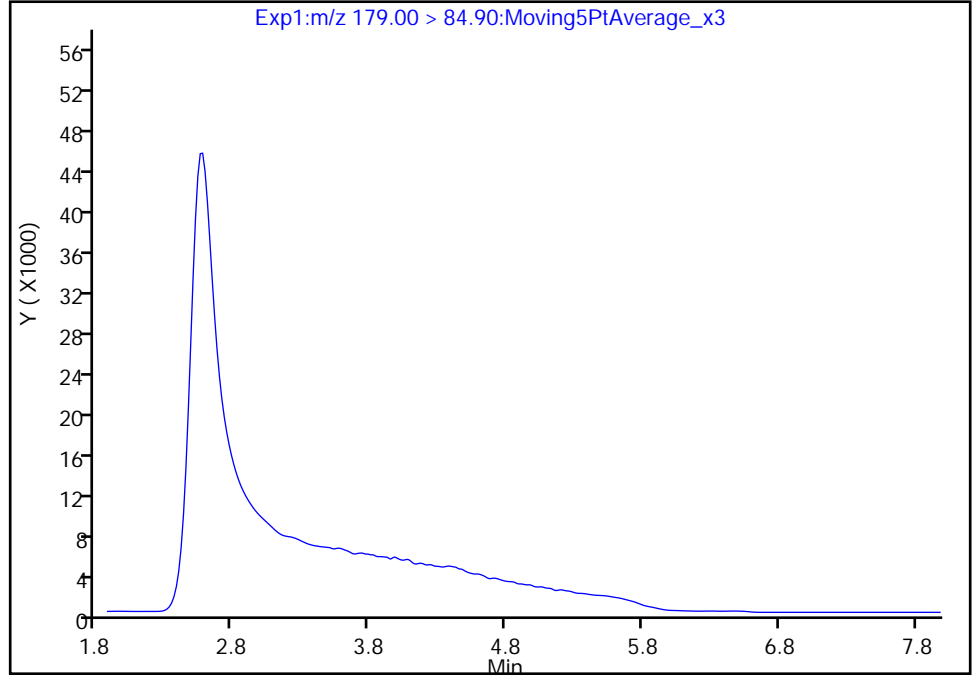
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Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

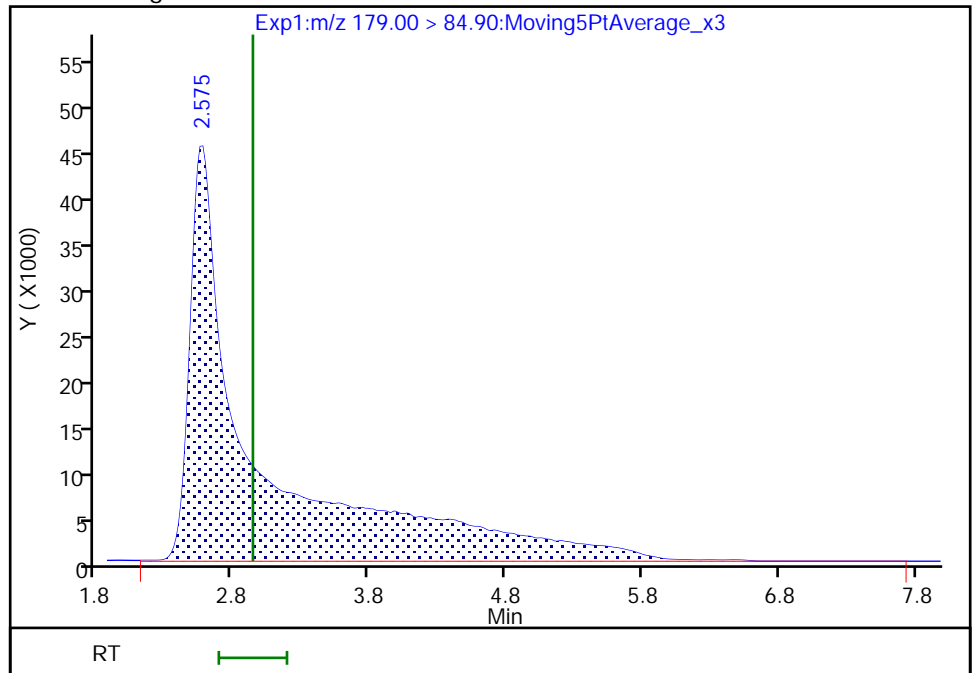
Not Detected  
Expected RT: 2.94

Processing Integration Results



RT: 2.57  
Area: 1522003  
Amount: 0.123174  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:13:34  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

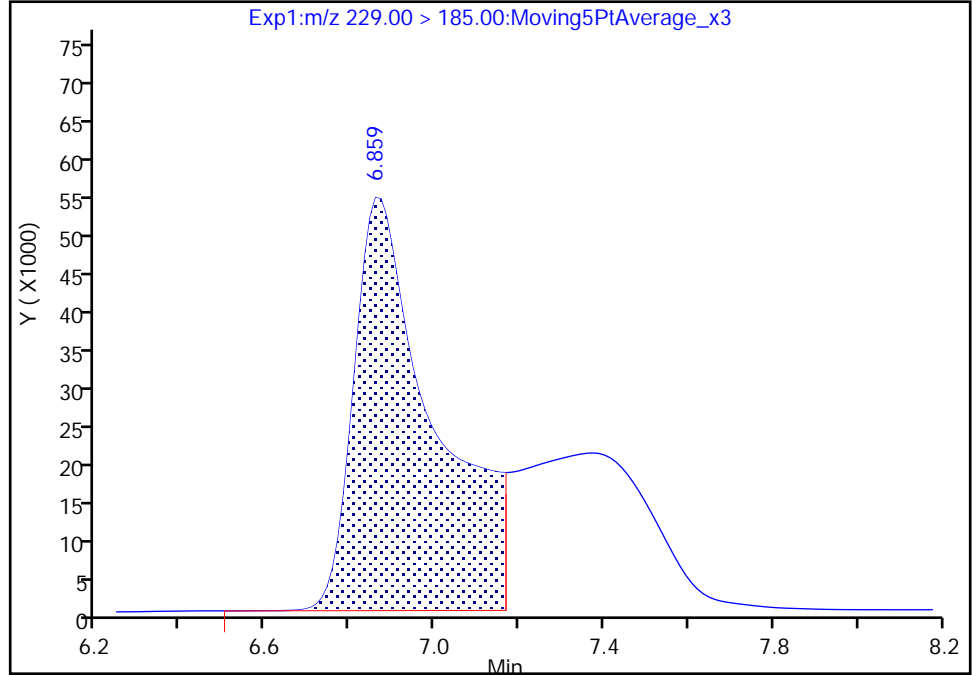
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

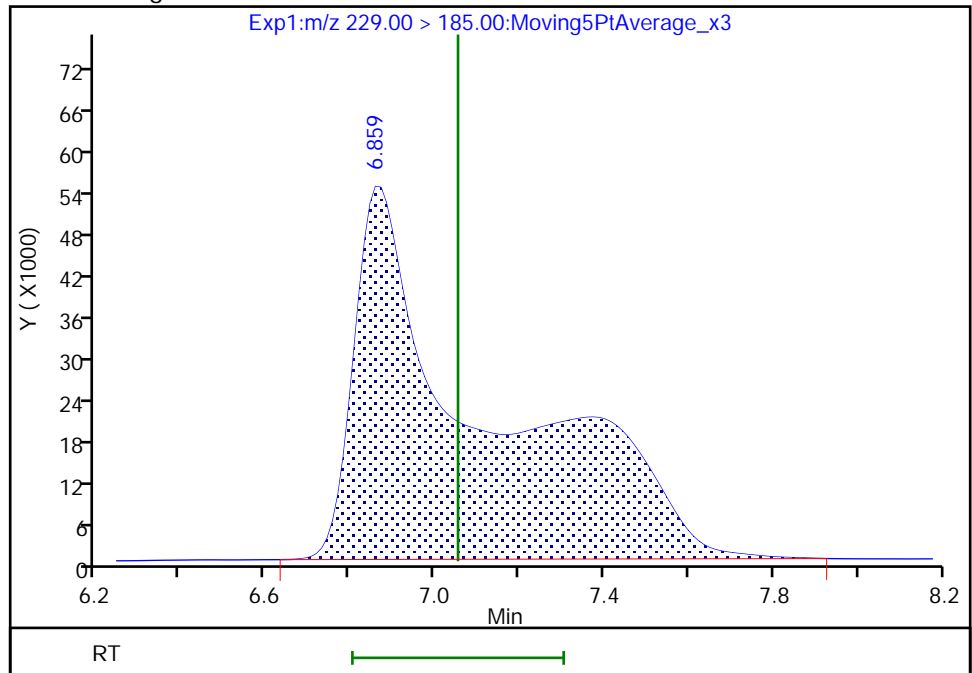
RT: 6.86  
Area: 716691  
Amount: 0.062378  
Amount Units: ng/ml

Processing Integration Results



RT: 6.86  
Area: 1163536  
Amount: 0.101270  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:14:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

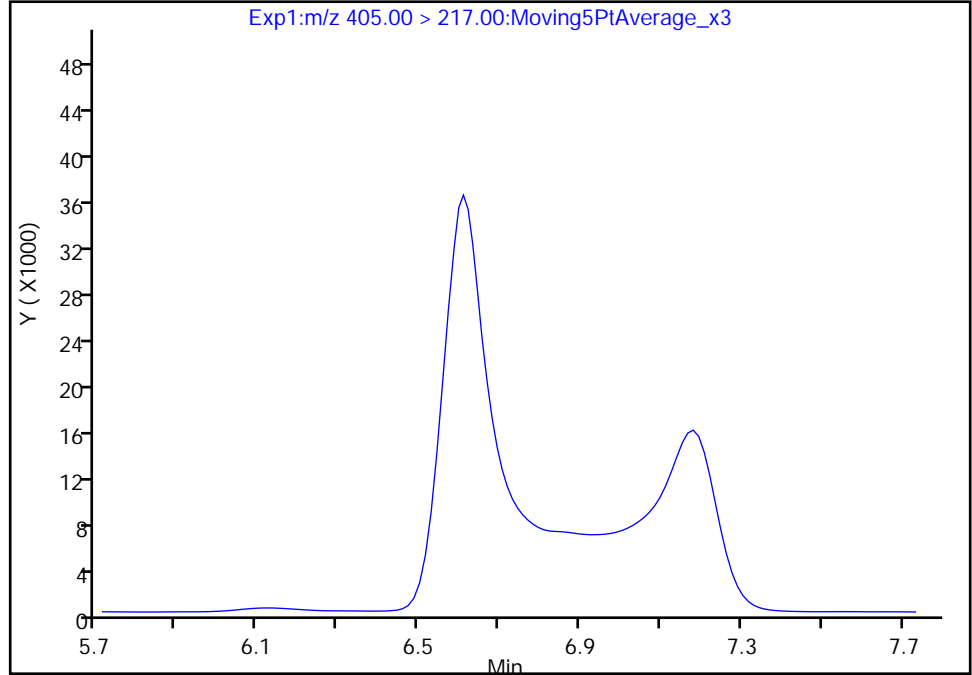
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

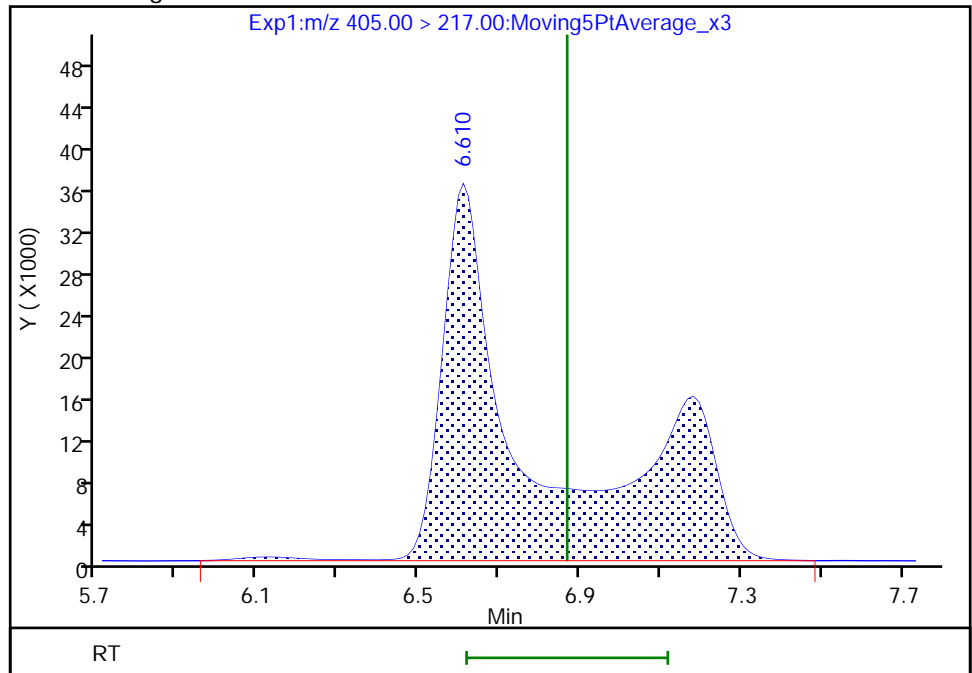
Not Detected  
Expected RT: 6.87

Processing Integration Results



Manual Integration Results

RT: 6.61  
Area: 577185  
Amount: 0.114864  
Amount Units: ng/ml



Reviewer: dadunj, 06-Jan-2021 11:13:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

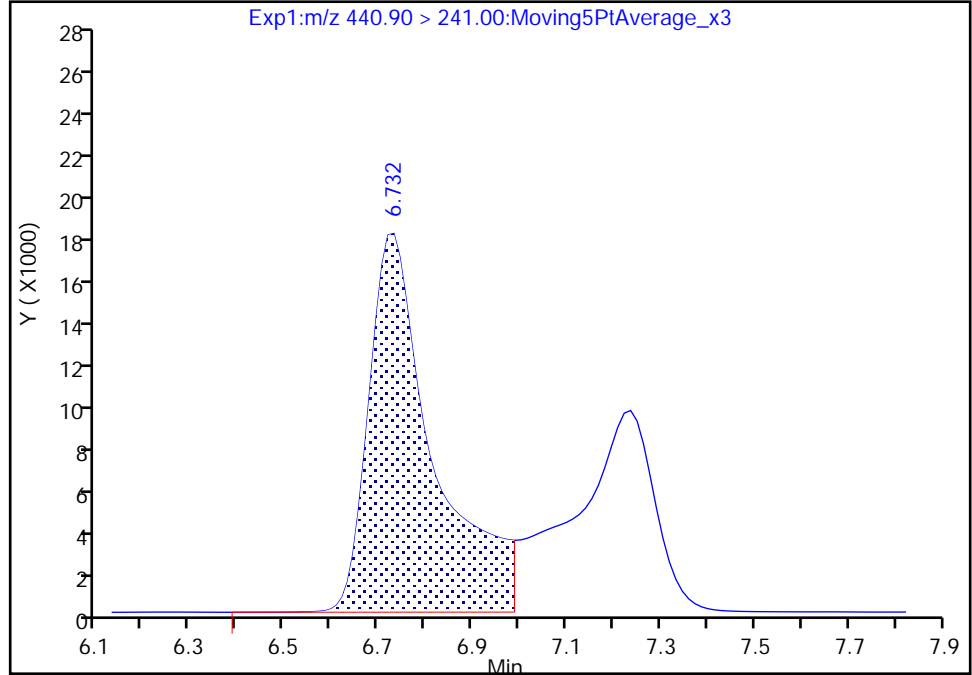
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210105-110683.b\2021.01.05\_A7\_TB3\_B\_029.d  
Injection Date: 05-Jan-2021 19:48:53 Instrument ID: A7\_N  
Lims ID: LCSD 320-448399/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 29 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

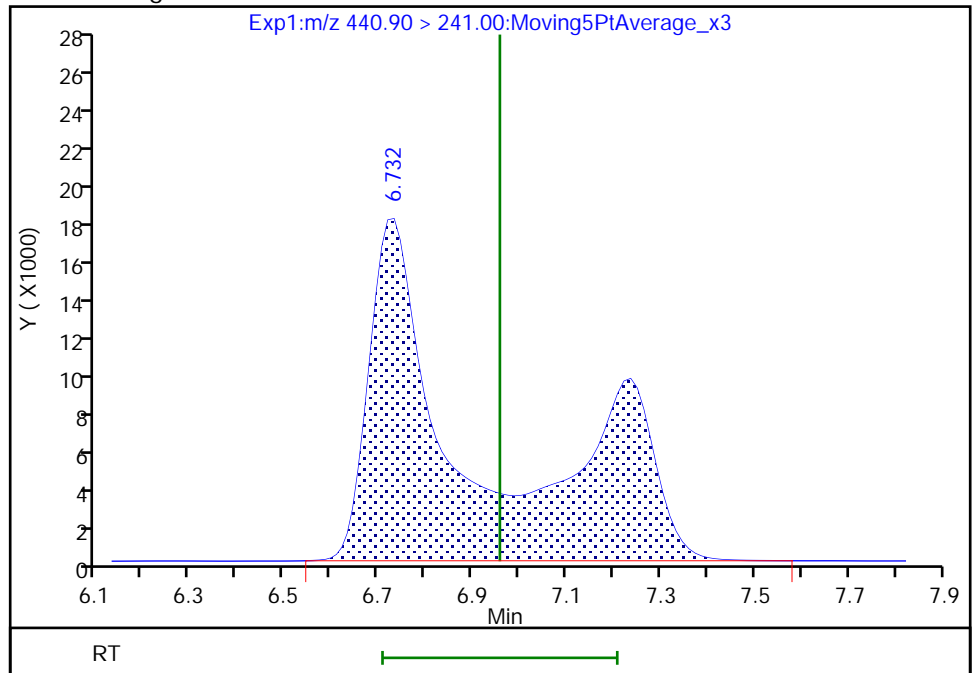
RT: 6.73  
Area: 173681  
Amount: 0.068014  
Amount Units: ng/ml

Processing Integration Results



RT: 6.73  
Area: 288635  
Amount: 0.113031  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 06-Jan-2021 11:13:54  
Audit Action: Manually Integrated

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 12/15/2020 19:54

Analysis Batch Number: 442814 End Date: 12/16/2020 00:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/15/2020 19:54	1		GeminiC18 3x100 3(mm)
IC 320-442814/2		12/15/2020 20:11	1	2020.12.15_TB3_ICAL 004.d	GeminiC18 3x100 3(mm)
IC 320-442814/3		12/15/2020 20:29	1	2020.12.15_TB3_ICAL 005.d	GeminiC18 3x100 3(mm)
IC 320-442814/4		12/15/2020 20:47	1	2020.12.15_TB3_ICAL 006.d	GeminiC18 3x100 3(mm)
IC 320-442814/5		12/15/2020 21:04	1	2020.12.15_TB3_ICAL 007.d	GeminiC18 3x100 3(mm)
IC 320-442814/6		12/15/2020 21:22	1	2020.12.15_TB3_ICAL 008.d	GeminiC18 3x100 3(mm)
IC 320-442814/7		12/15/2020 21:39	1	2020.12.15_TB3_ICAL 009.d	GeminiC18 3x100 3(mm)
IC 320-442814/8		12/15/2020 21:57	1	2020.12.15_TB3_ICAL 010.d	GeminiC18 3x100 3(mm)
IC 320-442814/9		12/15/2020 22:15	1	2020.12.15_TB3_ICAL 011.d	GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2020 22:32	1		GeminiC18 3x100 3(mm)
IC 320-442814/11		12/15/2020 22:50	1	2020.12.15_TB3_ICAL 013.d	GeminiC18 3x100 3(mm)
IC 320-442814/12		12/15/2020 23:07	1	2020.12.15_TB3_ICAL 014.d	GeminiC18 3x100 3(mm)
ICB 320-442814/13		12/15/2020 23:25	1		GeminiC18 3x100 3(mm)
ICV 320-442814/14		12/15/2020 23:43	1	2020.12.15_TB3_ICAL 016.d	GeminiC18 3x100 3(mm)
ZZZZZ		12/16/2020 00:00	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 01/05/2021 16:35

Analysis Batch Number: 448523 End Date: 01/05/2021 20:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-448523/1		01/05/2021 16:35	1	2021.01.05_A7_T B3 B 018.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/05/2021 16:52	1		GeminiC18 3x100 3(mm)
MB 320-448399/1-A		01/05/2021 17:10	1	2021.01.05_A7_T B3 B 020.d	GeminiC18 3x100 3(mm)
320-68396-1	SEEP-C-RAIN-INFLUENT-4-122420	01/05/2021 17:28	1	2021.01.05_A7_T B3 B 021.d	GeminiC18 3x100 3(mm)
320-68396-2	SEEP-C-RAIN-EFF_BYSS-4-122420	01/05/2021 17:45	1	2021.01.05_A7_T B3 B 022.d	GeminiC18 3x100 3(mm)
320-68396-3	SEEP-C-INFLUENT-114-123020	01/05/2021 18:03	1	2021.01.05_A7_T B3 B 023.d	GeminiC18 3x100 3(mm)
320-68396-4	SEEP-C-EFFLUENT-114-123020	01/05/2021 18:20	1	2021.01.05_A7_T B3 B 024.d	GeminiC18 3x100 3(mm)
320-68396-5	SEEP-C-RAIN-EQBLK-123020	01/05/2021 18:38	1	2021.01.05_A7_T B3 B 025.d	GeminiC18 3x100 3(mm)
320-68396-6	SEEP-C-EQBLK-123020	01/05/2021 18:56	1	2021.01.05_A7_T B3 B 026.d	GeminiC18 3x100 3(mm)
320-68396-7	SEEP-C-FBLK-123020	01/05/2021 19:13	1	2021.01.05_A7_T B3 B 027.d	GeminiC18 3x100 3(mm)
LCS 320-448399/2-A		01/05/2021 19:31	1	2021.01.05_A7_T B3 B 028.d	GeminiC18 3x100 3(mm)
LCSD 320-448399/3-A		01/05/2021 19:48	1	2021.01.05_A7_T B3 B 029.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/05/2021 20:06	1		GeminiC18 3x100 3(mm)
CCV 320-448523/14		01/05/2021 20:24	1	2021.01.05_A7_T B3 B 031.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-68396-1

SDG No.: \_\_\_\_\_

Batch Number: 448399 Batch Start Date: 01/05/21 04:07 Batch Analyst: Singh, Nikita S

Batch Method: PFAS Prep Batch End Date: 01/05/21 07:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00016	LCTB3_SP 00063	AnalysisComment	
MB 320-448399/1		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL		H2O/MeOH	
LCS 320-448399/2		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
LCSD 320-448399/3		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
320-68396-A-1	SEEP-C-RAIN-INFLUENT-4-122420	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH= 7	
320-68396-A-2	SEEP-C-RAIN-EFF_BYSS-4-122420	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH= 8	
320-68396-A-3	SEEP-C-INFLUENT-114-123020	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH= 8	
320-68396-A-4	SEEP-C-EFFLUENT-114-123020	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH= 8	
320-68396-A-5	SEEP-C-RAIN-EQBLK-123020	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH= 8	
320-68396-A-6	SEEP-C-EQBLK-123020	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH= 8	
320-68396-A-7	SEEP-C-FBLK-123020	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH= 8	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Chemours (TB3+)

# Shipping and Receiving Documents



Revision 320-68396  
11/7/2021 JJA

TestAmerica Sacramento  
180 Riverfront Parkway West

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc

Sacramento, CA 95805  
916) 373-5600

Regulatory Program:  DW  HMTX  RCRA  Other

Site Contact: Christel Compton  
Lab Contact: Carrier: FedEx

Date: 12/30/2020

COO No. PAM01200002

Client Contact	Sampler Initials: CM LT	Analysis Turnaround Time	Site Contact: Christel Compton	Date: 12/30/2020	Carrier: FedEx				
Chemours 22028 NO HWY #7 W Fayetteville, NC 28309 910-478-1215 Plant Name: Deep Flow Through Cells Sampling 2020 Site Chemours Fayetteville Works Plant P.O.#	Analysis Turnaround Time <input type="checkbox"/> CALIBRATION DAYS <input type="checkbox"/> WORKING DAY TAT if different from above: <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	Perform MS/MSO (Y/N) Table 3 - (20) HL Table 3 - (20) LL	COO No. PAM01200002 Page 1 of 1 COOs For Lab Use Only: Material Client Lab Sampling Lab #/Kit #/Lot						
Sample Identification	Sample Date	Sample Time	Type (Comp. Other)	Matrix	# of Cont.	Performance	MS/MSO	HL	LL
SEEP-C-RAIN-INFLUENT-4-122423	12/24/2020	15:22	G	W	5	N	X		
SEEP-C-RAIN-EFFLUENT-4-122420	12/24/2020	15:22	G	W	5	N	X		
SEEP-C-INF-LUEN: <sup>114</sup> 423020 (JP 01/11/21)	12/30/2020	11:00	G	W	5	N	X		
SEEP-C-EFFLUEN: <sup>114</sup> 423020 (JP 01/11/21)	12/30/2020	11:00	G	W	5	N	X		
SEEP-C-RAIN-EQ:K-123320	12/30/2020	12:45	G	W	5	N	N	X	
SEEP-C-EQ:K-123320	12/30/2020	12:50	G	W	5	N	N	X	
SEEP-C-FBI-K-123320	12/31/2020	15:20	G	W	5	N	N	X	

Preservation Used: 1= Ion, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other  
 Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-hazardous  Flammable  Skin Irritant  Reproductive  Oxidizer  
 Sample Disposal (A fee may be assessed if samples are retained longer than 1 month):  
 Return to Client  Dispose by Lab  Release to \_\_\_\_\_ Facility

Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No.:	Cooler Temp. (°C) Good	Company:	Therm ID No.:
Requested by: <i>He J</i>	Company: PARSCNS	Date/Time: 12/30/20	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished to:	Company:	Date/Time:	Received by:	Company:

Form No. DA-CW-002 Rev. 4.3, dated 12/18/2014

320-68396 Rev. 1/14/21  
711

TestAmerica Sacramento  
800 River Street, West

Chain of Custody Record

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.

Sacramento, CA 95808  
(916) 473-8900

Regulatory Program:  CA  MD  PA  NY

Date: 12/02/20  
Carrier: FedEx

Client Contact		Sampler In Use: CMLT		Site Contact: Christel Compton		Date: 12/02/20	
2225 E. HIGHWAY 97 W FLORENCE, CA 95630 916-473-8900		Analysis Turnaround Time <input checked="" type="checkbox"/> 2 Business Days <input checked="" type="checkbox"/> 3 Business Days		Lab Contact:		Carrier: FedEx	
Project Name: Deep Creek Through Core Sampling 2009		<input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Perform Sample (Y/N) Table 3: (2) HC Table 3: (2) LL		For Lab Use Only: Sample # Lab Sample # Job #	
Sample Identification	Sample Date	Sample Time	Sample Type (Cont./Matrix)	# of Cont.	Preserved	Table 3: (2) HC	Table 3: (2) LL
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	15:22	W	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	15:20	G	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	11:00	W	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	11:00	W	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	12:45	W	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	10:00	W	5	N	X	
SEEP - RAIN - EFF BYPASS - 4-02420	12/02/20	15:20	W	5	N	X	
Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other				Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments section if the lab is to dispose of the sample.				<input type="checkbox"/> Recycle <input type="checkbox"/> Store in Lab <input type="checkbox"/> Other			
Custody Seal Used: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Custody Seal No.		Custody Seal No.		Custody Seal No.	
Requested by: <i>AK</i>	Company: <i>AK</i>	Date/Time: <i>12/02/20</i>	Received by:	Company:	Date/Time:	Received by:	Company:
Requested by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:	Received in Laboratory by:	Company:


Form No. QA-CO-001 Rev. 4.0, dated 11/09/2010

**Chain of Custody Record**

TestAmerica Sacramento  
880 Riverside Parkway West  
Sacramento, CA 95605  
(916) 373-5600

Regulatory Program:  DW  NPDES  RCRA  Other:  
Site Contact: **Christel Compton** Date: 12/30/2020  
Lab Contact: **Carrier: FedEx**

Client Contact		Sampler Initials: CM LT		Site Contact: Christel Compton		Date: 12/30/2020	
Chemours 22828 NC HWY 87 W Fayetteville, NC 28306 910-678-1213		Analysis Turnaround Time <input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS TAT if different from Below _____ <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day		Lab Contact: <b>Carrier: FedEx</b>		COC No: PAR-0723020-2 1 of 1 COCs	
Project Name: Seep Flow Through Cell Sampling 2020 Site: Chemours Fayetteville Works Plant P O #		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=Grab)	
Sample Matrix		Matrix		# of Cont.		Filtered Sample (Y/N)	
Sample Specific Notes:		Perform MS/MSD (Y/N)		Table 3 (20) HL		Table 3 (20) LL	
SEEP-C-RAIN-INFLUENT-4-122420	12/24/2020	15:22	C	W	5	N	X
SEEP-C-RAIN-EFFLUENT-4-122420	12/24/2020	15:22	C	W	5	N	X
SEEP-C-INFLUENT-19-123020	12/30/2020	11:00	C	W	5	N	X
SEEP-C-EFFLUENT-19-123020	12/30/2020	11:00	C	W	5	N	X
SEEP-C-RAIN-EQBLK-123020	12/30/2020	12:45	G	W	5	N	X
SEEP-C-EQBLK-123020	12/30/2020	12:50	G	W	5	N	X
SEEP-C-FBLK-123020	12/30/2020	15:20	G	W	5	N	X



320-68396 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3, 5=NaOH, 6=Other  
 Possible Hazard Identification:  
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Unknown

Custody Seal No.: <b>146004</b>	Cooler Temp. (°C): <b>26</b>	Obsd: <b>26</b>	Corrd: <b>26</b>	Therm ID No: <b>407</b>
Relinquished by: <b>Ad R</b>	Company: <b>PARSONS</b>	Date/Time: <b>12-30-20</b>	Received by: <b>[Signature]</b>	Company: <b>PARSONS</b>
Relinquished by:	Company:	Date/Time:	Received by:	Company:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-68396-1

**Login Number: 68396**  
**List Number: 1**  
**Creator: Oropeza, Salvador**

**List Source: Eurofins TestAmerica, Sacramento**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1460061
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Job Number: 320-68542-1

Job Description: FAY-Seep Flow Through Cell Sampling 2020

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
1/13/2021 1:53 PM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
01/13/2021

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Sacramento**

880 Riverside Parkway, West Sacramento, CA 95605

Tel (916) 373-5600 Fax (916) 372-1059 [www.testamericainc.com](http://www.testamericainc.com)



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2020**  
**Report Number: 320-68542-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Sample Arrival and Receipt**

The samples were received on 1/6/2021 10:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 0.2° C.

**Receipt Exceptions**

In accordance with the client's instruction, a REP (DU) was logged for each requested MS.

No other anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-INFLUENT-24-123120 (320-68542-1), SEEP-C-EFFLUENT-24-123120 (320-68542-2), SEEP-C-EFFLUENT-24-123120-D (320-68542-3) and SEEP-C-FBLK-123120 (320-68542-4) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared on 01/08/2021 and analyzed on 01/10/2021.

The following sample contained a small volume of beige sediment: SEEP-C-INFLUENT-24-123120 (320-68542-1)

The LCS/LCSD associated with prep batch 320-449645 exhibited RPD data above the QC control limits for Hydrolyzed PSDA and R-PSDA. The LCS and LCSD percent recoveries were in control; therefore, corrective action was not performed.

The Sample Duplicate (DU) associated with prep batch 320-449645 was performed on sample SEEP-C-EFFLUENT-24-123120 (320-68542-2). The RPD data was not calculable for several analytes as the parent and/or sample duplicate results were less than the reporting limit.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68542-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68542-1	SEEP-C-INFLUENT-24-123120	EVE Acid	<0.017	<0.017	0.017
320-68542-1	SEEP-C-INFLUENT-24-123120	HFPO-DA	19	19	0.081
320-68542-1	SEEP-C-INFLUENT-24-123120	Hydro-EVE Acid	1.3	1.3	0.014
320-68542-1	SEEP-C-INFLUENT-24-123120	Hydrolyzed PSDA	1.2	1.2	0.038
320-68542-1	SEEP-C-INFLUENT-24-123120	Hydro-PS Acid	0.34	0.34	0.0061
320-68542-1	SEEP-C-INFLUENT-24-123120	NVHOS	0.77	0.77	0.015
320-68542-1	SEEP-C-INFLUENT-24-123120	PEPA	2.9	2.9	0.016
320-68542-1	SEEP-C-INFLUENT-24-123120	PES	<0.0067	<0.0067	0.0067
320-68542-1	SEEP-C-INFLUENT-24-123120	PFECA B	<0.027	<0.027	0.027
320-68542-1	SEEP-C-INFLUENT-24-123120	PFECA G	<0.048	<0.048	0.048
320-68542-1	SEEP-C-INFLUENT-24-123120	PFMOAA	74	74	0.080
320-68542-1	SEEP-C-INFLUENT-24-123120	PFO2HxA	23	23	0.027
320-68542-1	SEEP-C-INFLUENT-24-123120	PFO3OA	7.0	7.0	0.039
320-68542-1	SEEP-C-INFLUENT-24-123120	PFO4DA	2.4	2.4	0.059
320-68542-1	SEEP-C-INFLUENT-24-123120	PFO5DA	<0.078	<0.078	0.078
320-68542-1	SEEP-C-INFLUENT-24-123120	PMPA	8.9	8.9	0.62
320-68542-1	SEEP-C-INFLUENT-24-123120	PS Acid	0.064	0.064	0.020
320-68542-1	SEEP-C-INFLUENT-24-123120	R-EVE	0.90	0.90	0.072
320-68542-1	SEEP-C-INFLUENT-24-123120	R-PSDA	0.82	0.82	0.071
320-68542-1	SEEP-C-INFLUENT-24-123120	R-PSDCA	<0.017	<0.017	0.017
320-68542-2	SEEP-C-EFFLUENT-24-123120	EVE Acid	<0.017	<0.017	0.017
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	EVE Acid	<0.017	<0.017	0.017
320-68542-2	SEEP-C-EFFLUENT-24-123120	HFPO-DA	<0.081	<0.081	0.081
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	HFPO-DA	<0.081	<0.081	0.081
320-68542-2	SEEP-C-EFFLUENT-24-123120	Hydro-EVE Acid	<0.014	<0.014	0.014
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	Hydro-EVE Acid	<0.014	<0.014	0.014
320-68542-2	SEEP-C-EFFLUENT-24-123120	Hydrolyzed PSDA	<0.038	<0.038	0.038
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	Hydrolyzed PSDA	<0.038	<0.038	0.038
320-68542-2	SEEP-C-EFFLUENT-24-123120	Hydro-PS Acid	<0.0061	<0.0061	0.0061
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	Hydro-PS Acid	<0.0061	<0.0061	0.0061
320-68542-2	SEEP-C-EFFLUENT-24-123120	NVHOS	<0.015	<0.015	0.015
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	NVHOS	<0.015	<0.015	0.015
320-68542-2	SEEP-C-EFFLUENT-24-123120	PEPA	<0.016	<0.016	0.016
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PEPA	<0.016	<0.016	0.016
320-68542-2	SEEP-C-EFFLUENT-24-123120	PES	<0.0067	<0.0067	0.0067
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PES	<0.0067	<0.0067	0.0067
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFECA B	<0.027	<0.027	0.027
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFECA B	<0.027	<0.027	0.027
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFECA G	<0.048	<0.048	0.048
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFECA G	<0.048	<0.048	0.048
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFMOAA	<0.080	<0.080	0.080
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFMOAA	<0.080	<0.080	0.080

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68542-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFO2HxA	0.13	0.13	0.027
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFO2HxA	<0.027		0.027
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFO3OA	<0.039	<0.039	0.039
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFO3OA	<0.039		0.039
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFO4DA	<0.059	<0.059	0.059
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFO4DA	<0.059		0.059
320-68542-2	SEEP-C-EFFLUENT-24-123120	PFO5DA	<0.078	<0.078	0.078
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PFO5DA	<0.078		0.078
320-68542-2	SEEP-C-EFFLUENT-24-123120	PMPA	<0.62	<0.62	0.62
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PMPA	<0.62		0.62
320-68542-2	SEEP-C-EFFLUENT-24-123120	PS Acid	0.074	0.075	0.020
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	PS Acid	0.076		0.020
320-68542-2	SEEP-C-EFFLUENT-24-123120	R-EVE	<0.072	<0.072	0.072
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	R-EVE	<0.072		0.072
320-68542-2	SEEP-C-EFFLUENT-24-123120	R-PSDA	<0.071	<0.071	0.071
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	R-PSDA	<0.071		0.071
320-68542-2	SEEP-C-EFFLUENT-24-123120	R-PSDCA	<0.017	<0.017	0.017
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	R-PSDCA	<0.017		0.017
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	EVE Acid	<0.017	<0.017	0.017
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	HFPO-DA	<0.081	<0.081	0.081
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Hydro-EVE Acid	<0.014	<0.014	0.014
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Hydrolyzed PSDA	<0.038	<0.038	0.038
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Hydro-PS Acid	<0.0061	<0.0061	0.0061
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	NVHOS	<0.015	<0.015	0.015
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PEPA	<0.016	<0.016	0.016
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PES	<0.0067	<0.0067	0.0067
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFECA B	<0.027	<0.027	0.027
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFECA G	<0.048	<0.048	0.048
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFMOAA	<0.080	<0.080	0.080
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFO2HxA	0.10	0.10	0.027
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFO3OA	<0.039	<0.039	0.039
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFO4DA	<0.059	<0.059	0.059
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PFO5DA	<0.078	<0.078	0.078
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PMPA	<0.62	<0.62	0.62
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	PS Acid	0.066	0.066	0.020
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	R-EVE	<0.072	<0.072	0.072
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	R-PSDA	<0.071	<0.071	0.071
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	R-PSDCA	<0.017	<0.017	0.017
320-68542-4	SEEP-C-FBLK-123120	EVE Acid	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	HFPO-DA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-68542-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-68542-4	SEEP-C-FBLK-123120	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	NVHOS	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PEPA	<0.010	<0.010	0.010
320-68542-4	SEEP-C-FBLK-123120	PES	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFECA B	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFECA G	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFMOAA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFO2HxA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFO3OA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFO4DA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PFO5DA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	PMPA	<0.020	<0.020	0.020
320-68542-4	SEEP-C-FBLK-123120	PS Acid	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	R-EVE	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	R-PSDA	<0.0020	<0.0020	0.0020
320-68542-4	SEEP-C-FBLK-123120	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Client Sample ID: SEEP-C-INFLUENT-24-123120

## Lab Sample ID: 320-68542-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	19		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.3		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.2	*1	0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.34		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.77		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	2.9		0.016		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	74		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	23		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	7.0		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	2.4		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	8.9		0.62		ug/L	1		Chemours (TB3+)	Total/NA
PS Acid	0.064		0.020		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.90		0.072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.82	*1	0.071		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-EFFLUENT-24-123120

## Lab Sample ID: 320-68542-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PFO2HxA	0.13		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PS Acid	0.074		0.020		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-EFFLUENT-24-123120-D

## Lab Sample ID: 320-68542-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PFO2HxA	0.10		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PS Acid	0.066		0.020		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-FBLK-123120

## Lab Sample ID: 320-68542-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: SEEP-C-INFLUENT-24-123120**

**Lab Sample ID: 320-68542-1**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>HFPO-DA</b>	<b>19</b>		0.081		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>Hydro-EVE Acid</b>	<b>1.3</b>		0.014		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>Hydrolyzed PSDA</b>	<b>1.2</b>	<b>*1</b>	0.038		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>Hydro-PS Acid</b>	<b>0.34</b>		0.0061		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>NVHOS</b>	<b>0.77</b>		0.015		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PEPA</b>	<b>2.9</b>		0.016		ug/L		01/08/21 08:21	01/10/21 05:52	1
PES	<0.0067		0.0067		ug/L		01/08/21 08:21	01/10/21 05:52	1
PFECA B	<0.027		0.027		ug/L		01/08/21 08:21	01/10/21 05:52	1
PFECA G	<0.048		0.048		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PFMOAA</b>	<b>74</b>		0.080		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PFO2HxA</b>	<b>23</b>		0.027		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PFO3OA</b>	<b>7.0</b>		0.039		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PFO4DA</b>	<b>2.4</b>		0.059		ug/L		01/08/21 08:21	01/10/21 05:52	1
PFO5DA	<0.078		0.078		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PMPA</b>	<b>8.9</b>		0.62		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>PS Acid</b>	<b>0.064</b>		0.020		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>R-EVE</b>	<b>0.90</b>		0.072		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>R-PSDA</b>	<b>0.82</b>	<b>*1</b>	0.071		ug/L		01/08/21 08:21	01/10/21 05:52	1
R-PSDCA	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 05:52	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	<i>100</i>		<i>25 - 150</i>				<i>01/08/21 08:21</i>	<i>01/10/21 05:52</i>	<i>1</i>

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Lab Sample ID: 320-68542-2**

**Date Collected: 12/31/20 13:00**

**Matrix: Water**

**Date Received: 01/06/21 10:40**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 06:45	1
HFPO-DA	<0.081		0.081		ug/L		01/08/21 08:21	01/10/21 06:45	1
Hydro-EVE Acid	<0.014		0.014		ug/L		01/08/21 08:21	01/10/21 06:45	1
Hydrolyzed PSDA	<0.038	*1	0.038		ug/L		01/08/21 08:21	01/10/21 06:45	1
Hydro-PS Acid	<0.0061		0.0061		ug/L		01/08/21 08:21	01/10/21 06:45	1
NVHOS	<0.015		0.015		ug/L		01/08/21 08:21	01/10/21 06:45	1
PEPA	<0.016		0.016		ug/L		01/08/21 08:21	01/10/21 06:45	1
PES	<0.0067		0.0067		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFECA B	<0.027		0.027		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFECA G	<0.048		0.048		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFMOAA	<0.080		0.080		ug/L		01/08/21 08:21	01/10/21 06:45	1
<b>PFO2HxA</b>	<b>0.13</b>		0.027		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFO3OA	<0.039		0.039		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFO4DA	<0.059		0.059		ug/L		01/08/21 08:21	01/10/21 06:45	1
PFO5DA	<0.078		0.078		ug/L		01/08/21 08:21	01/10/21 06:45	1
PMPA	<0.62		0.62		ug/L		01/08/21 08:21	01/10/21 06:45	1
<b>PS Acid</b>	<b>0.074</b>		0.020		ug/L		01/08/21 08:21	01/10/21 06:45	1
R-EVE	<0.072		0.072		ug/L		01/08/21 08:21	01/10/21 06:45	1
R-PSDA	<0.071	*1	0.071		ug/L		01/08/21 08:21	01/10/21 06:45	1
R-PSDCA	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 06:45	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	109		25 - 150				01/08/21 08:21	01/10/21 06:45	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: SEEP-C-EFFLUENT-24-123120-D**

**Lab Sample ID: 320-68542-3**

**Date Collected: 12/31/20 13:00**

**Matrix: Water**

**Date Received: 01/06/21 10:40**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 06:09	1
HFPO-DA	<0.081		0.081		ug/L		01/08/21 08:21	01/10/21 06:09	1
Hydro-EVE Acid	<0.014		0.014		ug/L		01/08/21 08:21	01/10/21 06:09	1
Hydrolyzed PSDA	<0.038	*1	0.038		ug/L		01/08/21 08:21	01/10/21 06:09	1
Hydro-PS Acid	<0.0061		0.0061		ug/L		01/08/21 08:21	01/10/21 06:09	1
NVHOS	<0.015		0.015		ug/L		01/08/21 08:21	01/10/21 06:09	1
PEPA	<0.016		0.016		ug/L		01/08/21 08:21	01/10/21 06:09	1
PES	<0.0067		0.0067		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFECA B	<0.027		0.027		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFECA G	<0.048		0.048		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFMOAA	<0.080		0.080		ug/L		01/08/21 08:21	01/10/21 06:09	1
<b>PFO2HxA</b>	<b>0.10</b>		0.027		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFO3OA	<0.039		0.039		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFO4DA	<0.059		0.059		ug/L		01/08/21 08:21	01/10/21 06:09	1
PFO5DA	<0.078		0.078		ug/L		01/08/21 08:21	01/10/21 06:09	1
PMPA	<0.62		0.62		ug/L		01/08/21 08:21	01/10/21 06:09	1
<b>PS Acid</b>	<b>0.066</b>		0.020		ug/L		01/08/21 08:21	01/10/21 06:09	1
R-EVE	<0.072		0.072		ug/L		01/08/21 08:21	01/10/21 06:09	1
R-PSDA	<0.071	*1	0.071		ug/L		01/08/21 08:21	01/10/21 06:09	1
R-PSDCA	<0.017		0.017		ug/L		01/08/21 08:21	01/10/21 06:09	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	105		25 - 150				01/08/21 08:21	01/10/21 06:09	1



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: SEEP-C-FBLK-123120**

**Lab Sample ID: 320-68542-4**

**Date Collected: 12/31/20 13:30**

**Matrix: Water**

**Date Received: 01/06/21 10:40**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
HFPO-DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
Hydrolyzed PSDA	<0.0020	*1	0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
NVHOS	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PEPA	<0.010		0.010		ug/L		01/08/21 08:21	01/10/21 06:27	1
PES	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFECA B	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFECA G	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFMOAA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFO2HxA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFO3OA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFO4DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PFO5DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PMPA	<0.020		0.020		ug/L		01/08/21 08:21	01/10/21 06:27	1
PS Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
R-EVE	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
R-PSDA	<0.0020	*1	0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
R-PSDCA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 06:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	100		25 - 150				01/08/21 08:21	01/10/21 06:27	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.010	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.020	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-68542-1	SEEP-C-INFLUENT-24-123120	100
320-68542-2	SEEP-C-EFFLUENT-24-123120	109
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	105
320-68542-2 MS	SEEP-C-EFFLUENT-24-123120	106
320-68542-3	SEEP-C-EFFLUENT-24-123120	105
320-68542-4	SEEP-C-FBLK-123120	100
LCS 320-449645/2-A	Lab Control Sample	113
LCSD 320-449645/3-A	Lab Control Sample Dup	103
MB 320-449645/1-A	Method Blank	112

#### Surrogate Legend

HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

**Lab Sample ID: MB 320-449645/1-A**

**Matrix: Water**

**Analysis Batch: 450034**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 449645**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
EVE Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
HFPO-DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
NVHOS	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PEPA	<0.010		0.010		ug/L		01/08/21 08:21	01/10/21 05:34	1
PES	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFECA B	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFECA G	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFMOAA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFO2HxA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFO3OA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFO4DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PFO5DA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PMPA	<0.020		0.020		ug/L		01/08/21 08:21	01/10/21 05:34	1
PS Acid	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
R-EVE	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
R-PSDA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
R-PSDCA	<0.0020		0.0020		ug/L		01/08/21 08:21	01/10/21 05:34	1
Isotope Dilution	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3 HFPO-DA	112		25 - 150				01/08/21 08:21	01/10/21 05:34	1

**Lab Sample ID: LCS 320-449645/2-A**

**Matrix: Water**

**Analysis Batch: 450034**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 449645**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
HFPO-DA	0.200	0.198		ug/L		99	70 - 130	
Hydro-EVE Acid	0.200	0.212		ug/L		106	70 - 130	
Hydrolyzed PSDA	0.200	0.219		ug/L		110	50 - 150	
Hydro-PS Acid	0.200	0.209		ug/L		105	70 - 130	
NVHOS	0.200	0.202		ug/L		101	70 - 130	
PEPA	0.200	0.200		ug/L		100	70 - 130	
PES	0.200	0.196		ug/L		98	70 - 130	
PFECA B	0.200	0.211		ug/L		105	70 - 130	
PFECA G	0.200	0.180		ug/L		90	70 - 130	
PFMOAA	0.200	0.214		ug/L		107	70 - 130	
PFO2HxA	0.200	0.199		ug/L		100	70 - 130	
PFO3OA	0.200	0.190		ug/L		95	70 - 130	
PFO4DA	0.200	0.199		ug/L		100	50 - 150	
PFO5DA	0.200	0.201		ug/L		100	50 - 150	
PMPA	0.200	0.197		ug/L		99	70 - 130	
PS Acid	0.200	0.199		ug/L		99	70 - 130	
R-EVE	0.200	0.205		ug/L		102	50 - 150	
R-PSDA	0.200	0.213		ug/L		107	50 - 150	
R-PSDCA	0.200	0.212		ug/L		106	70 - 130	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	113		25 - 150

**Lab Sample ID: LCS D 320-449645/3-A**  
**Matrix: Water**  
**Analysis Batch: 450034**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 449645**

Analyte	Spike Added	LCS D Result	LCS D Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
EVE Acid	0.200	0.190		ug/L		95	70 - 130	8	25	
HFPO-DA	0.200	0.201		ug/L		100	70 - 130	2	25	
Hydro-EVE Acid	0.200	0.197		ug/L		99	70 - 130	7	25	
Hydrolyzed PSDA	0.200	0.165	*1	ug/L		83	50 - 150	28	25	
Hydro-PS Acid	0.200	0.196		ug/L		98	70 - 130	7	25	
NVHOS	0.200	0.174		ug/L		87	70 - 130	15	25	
PEPA	0.200	0.182		ug/L		91	70 - 130	10	25	
PES	0.200	0.181		ug/L		91	70 - 130	8	25	
PFECA B	0.200	0.187		ug/L		94	70 - 130	12	25	
PFECA G	0.200	0.175		ug/L		87	70 - 130	3	25	
PFMOAA	0.200	0.171		ug/L		86	70 - 130	22	25	
PFO2HxA	0.200	0.183		ug/L		91	70 - 130	9	25	
PFO3OA	0.200	0.191		ug/L		96	70 - 130	0	25	
PFO4DA	0.200	0.167		ug/L		84	50 - 150	18	25	
PFO5DA	0.200	0.195		ug/L		98	50 - 150	3	25	
PMPA	0.200	0.166		ug/L		83	70 - 130	17	25	
PS Acid	0.200	0.187		ug/L		94	70 - 130	6	25	
R-EVE	0.200	0.164		ug/L		82	50 - 150	22	25	
R-PSDA	0.200	0.164	*1	ug/L		82	50 - 150	26	25	
R-PSDCA	0.200	0.198		ug/L		99	70 - 130	7	25	

Isotope Dilution	LCS D LCS D		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	103		25 - 150

**Lab Sample ID: 320-68542-2 MS**  
**Matrix: Water**  
**Analysis Batch: 450034**

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**  
**Prep Type: Total/NA**  
**Prep Batch: 449645**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.	
				Result	Qualifier				Limits	RPD
EVE Acid	<0.017		20.0	19.6		ug/L		98	70 - 130	
HFPO-DA	<0.081		20.0	20.0		ug/L		100	70 - 130	
Hydro-EVE Acid	<0.014		20.0	20.3		ug/L		101	70 - 130	
Hydrolyzed PSDA	<0.038	*1	20.0	21.5		ug/L		107	50 - 150	
Hydro-PS Acid	<0.0061		20.0	21.4		ug/L		107	70 - 130	
NVHOS	<0.015		20.0	20.0		ug/L		100	70 - 130	
PEPA	<0.016		20.0	19.8		ug/L		99	70 - 130	
PES	<0.0067		20.0	19.6		ug/L		98	70 - 130	
PFECA B	<0.027		20.0	20.3		ug/L		102	70 - 130	
PFECA G	<0.048		20.0	18.3		ug/L		92	70 - 130	
PFMOAA	<0.080		20.0	21.6		ug/L		108	70 - 130	
PFO2HxA	0.13		20.0	19.6		ug/L		97	70 - 130	
PFO3OA	<0.039		20.0	19.8		ug/L		99	70 - 130	
PFO4DA	<0.059		20.0	15.8		ug/L		79	50 - 150	
PFO5DA	<0.078		20.0	16.9		ug/L		85	50 - 150	
PMPA	<0.62		20.0	19.6		ug/L		98	70 - 130	

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

**Lab Sample ID: 320-68542-2 MS**

**Matrix: Water**

**Analysis Batch: 450034**

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Prep Type: Total/NA**

**Prep Batch: 449645**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.	Limits
	Result	Qualifier	Added	Result	Qualifier					
PS Acid	0.074		20.0	19.7		ug/L		98		70 - 130
R-EVE	<0.072		20.0	20.6		ug/L		103		50 - 150
R-PSDA	<0.071	*1	20.0	21.7		ug/L		108		50 - 150
R-PSDCA	<0.017		20.0	22.7		ug/L		114		70 - 130
<b>MS MS</b>										
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>							
<i>13C3 HFPO-DA</i>	106		25 - 150							

**Lab Sample ID: 320-68542-2 DU**

**Matrix: Water**

**Analysis Batch: 450034**

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Prep Type: Total/NA**

**Prep Batch: 449645**

Analyte	Sample	Sample	DU		Unit	D	RPD	RPD	Limit
	Result	Qualifier	Result	Qualifier					
EVE Acid	<0.017		<0.017		ug/L			NC	25
HFPO-DA	<0.081		<0.081		ug/L			NC	25
Hydro-EVE Acid	<0.014		<0.014		ug/L			NC	25
Hydrolyzed PSDA	<0.038	*1	<0.038	*1	ug/L			NC	25
Hydro-PS Acid	<0.0061		<0.0061		ug/L			NC	25
NVHOS	<0.015		<0.015		ug/L			NC	25
PEPA	<0.016		<0.016		ug/L			NC	25
PES	<0.0067		<0.0067		ug/L			NC	25
PFECA B	<0.027		<0.027		ug/L			NC	25
PFECA G	<0.048		<0.048		ug/L			NC	25
PFMOAA	<0.080		<0.080		ug/L			NC	25
PFO2HxA	0.13		<0.027		ug/L			NC	25
PFO3OA	<0.039		<0.039		ug/L			NC	25
PFO4DA	<0.059		<0.059		ug/L			NC	25
PFO5DA	<0.078		<0.078		ug/L			NC	25
PMPA	<0.62		<0.62		ug/L			NC	25
PS Acid	0.074		0.0757		ug/L			3	25
R-EVE	<0.072		<0.072		ug/L			NC	25
R-PSDA	<0.071	*1	<0.071	*1	ug/L			NC	25
R-PSDCA	<0.017		<0.017		ug/L			NC	25
<b>DU DU</b>									
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>13C3 HFPO-DA</i>	105		25 - 150						

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## LCMS

### Prep Batch: 449645

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68542-1	SEEP-C-INFLUENT-24-123120	Total/NA	Water	PFAS Prep	
320-68542-2	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	PFAS Prep	
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Total/NA	Water	PFAS Prep	
320-68542-4	SEEP-C-FBLK-123120	Total/NA	Water	PFAS Prep	
MB 320-449645/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-449645/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-449645/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	
320-68542-2 MS	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	PFAS Prep	
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	PFAS Prep	

### Analysis Batch: 450034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-68542-1	SEEP-C-INFLUENT-24-123120	Total/NA	Water	Chemours (TB3+)	449645
320-68542-2	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	Chemours (TB3+)	449645
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Total/NA	Water	Chemours (TB3+)	449645
320-68542-4	SEEP-C-FBLK-123120	Total/NA	Water	Chemours (TB3+)	449645
MB 320-449645/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	449645
LCS 320-449645/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	449645
LCSD 320-449645/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	449645
320-68542-2 MS	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	Chemours (TB3+)	449645
320-68542-2 DU	SEEP-C-EFFLUENT-24-123120	Total/NA	Water	Chemours (TB3+)	449645

# Lab Chronicle

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: SEEP-C-INFLUENT-24-123120**

**Lab Sample ID: 320-68542-1**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 05:52	D1R	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Lab Sample ID: 320-68542-2**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 06:45	D1R	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-24-123120-D**

**Lab Sample ID: 320-68542-3**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 06:09	D1R	TAL SAC

**Client Sample ID: SEEP-C-FBLK-123120**

**Lab Sample ID: 320-68542-4**

Date Collected: 12/31/20 13:30

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 06:27	D1R	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-449645/1-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 05:34	D1R	TAL SAC

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-449645/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 07:37	D1R	TAL SAC



# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-449645/3-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 07:55	D1R	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Lab Sample ID: 320-68542-2 MS**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 07:20	D1R	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-24-123120**

**Lab Sample ID: 320-68542-2 DU**

Date Collected: 12/31/20 13:00

Matrix: Water

Date Received: 01/06/21 10:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	449645	01/08/21 08:21	MA	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			450034	01/10/21 07:02	D1R	TAL SAC

## Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	01-20-21
ANAB	Dept. of Defense ELAP	L2468	01-20-21
ANAB	Dept. of Energy	L2468.01	01-20-21
ANAB	ISO/IEC 17025	L2468	01-20-21
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21
Hawaii	State	<cert No.>	01-29-21
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	08-03-23
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Oregon	NELAP	4040	01-29-21
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-20 *
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

- Client = Client derived Standard Operating Procedure
- TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

- TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2020

Job ID: 320-68542-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-68542-1	SEEP-C-INFLUENT-24-123120	Water	12/31/20 13:00	01/06/21 10:40	
320-68542-2	SEEP-C-EFFLUENT-24-123120	Water	12/31/20 13:00	01/06/21 10:40	
320-68542-3	SEEP-C-EFFLUENT-24-123120-D	Water	12/31/20 13:00	01/06/21 10:40	
320-68542-4	SEEP-C-FBLK-123120	Water	12/31/20 13:30	01/06/21 10:40	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:11 Lab File ID: 2020.12.15\_TB3\_ICAL\_004.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.33	Assign Peak	contreras e	12/16/20 09:20
R-EVE	6.87	Assign Peak	contreras e	12/16/20 09:20
R-PSDA	6.95	Assign Peak	contreras e	12/16/20 09:21
Hydrolyzed PSDA	7.03	Assign Peak	contreras e	12/16/20 09:21
PMPA	7.06	Incomplete Integration	contreras e	12/16/20 09:21
NVHOS	7.58	Baseline	contreras e	12/16/20 09:21
PFO2HxA	8.16	Baseline	contreras e	12/16/20 09:21
PFECA B	9.30	Baseline	contreras e	12/16/20 09:22
PFO3OA	9.54	Baseline	contreras e	12/16/20 09:22
HFPO-DA	9.65	Baseline	contreras e	12/16/20 09:22

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:29 Lab File ID: 2020.12.15\_TB3\_ICAL\_005.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.82	Assign Peak	contreras e	12/16/20 09:23
R-EVE	6.67	Assign Peak	contreras e	12/16/20 09:23
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:23
Hydrolyzed PSDA	6.87	Assign Peak	contreras e	12/16/20 09:23
PMPA	6.89	Baseline	contreras e	12/16/20 09:23
PFO2HxA	8.10	Baseline	contreras e	12/16/20 09:23
PFO5DA	10.87	Baseline	contreras e	12/16/20 09:23

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 20:47 Lab File ID: 2020.12.15\_TB3\_ICAL\_006.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.72	Assign Peak	contreras e	12/16/20 09:24
R-EVE	6.62	Assign Peak	contreras e	12/16/20 09:24
R-PSDA	6.72	Assign Peak	contreras e	12/16/20 09:24
Hydrolyzed PSDA	6.82	Assign Peak	contreras e	12/16/20 09:24
PMPA	6.87	Incomplete Integration	contreras e	12/16/20 09:24
NVHOS	7.46	Baseline	contreras e	12/16/20 09:24
PFO2HxA	8.09	Baseline	contreras e	12/16/20 09:24

Lab Sample ID: IC 320-442814/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:04 Lab File ID: 2020.12.15\_TB3\_ICAL\_007.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.79	Assign Peak	contreras e	12/16/20 09:25
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:25
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:25
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:25
NVHOS	7.47	Baseline	contreras e	12/16/20 09:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:22 Lab File ID: 2020.12.15\_TB3\_ICAL\_008.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.80	Assign Peak	contreras e	12/16/20 09:37
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:44
R-PSDA	6.76	Assign Peak	contreras e	12/16/20 09:37
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:37
NVHOS	7.47	Baseline	contreras e	12/16/20 09:37
PFO2HxA	8.09	Baseline	contreras e	12/16/20 09:37

Lab Sample ID: IC 320-442814/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:39 Lab File ID: 2020.12.15\_TB3\_ICAL\_009.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.68	Assign Peak	contreras e	12/16/20 09:38
R-EVE	6.60	Assign Peak	contreras e	12/16/20 09:44
R-PSDA	6.70	Assign Peak	contreras e	12/16/20 09:38
Hydrolyzed PSDA	6.81	Assign Peak	contreras e	12/16/20 09:38
PMPA	6.85	Incomplete Integration	contreras e	12/16/20 09:38
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:38
PFO2HxA	8.08	Baseline	contreras e	12/16/20 09:38



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 21:57 Lab File ID: 2020.12.15\_TB3\_ICAL\_010.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.79	Assign Peak	contreras e	12/16/20 09:39
R-EVE	6.66	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.75	Assign Peak	contreras e	12/16/20 09:39
Hydrolyzed PSDA	6.86	Assign Peak	contreras e	12/16/20 09:39
PMPA	6.89	Incomplete Integration	contreras e	12/16/20 09:39
NVHOS	7.46	Incomplete Integration	contreras e	12/16/20 09:39

Lab Sample ID: IC 320-442814/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 22:15 Lab File ID: 2020.12.15\_TB3\_ICAL\_011.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.86	Assign Peak	contreras e	12/16/20 09:40
R-EVE	6.70	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.78	Assign Peak	contreras e	12/16/20 09:40
Hydrolyzed PSDA	6.89	Assign Peak	contreras e	12/16/20 09:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: IC 320-442814/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 22:50 Lab File ID: 2020.12.15\_TB3\_ICAL\_013.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.68	Assign Peak	contreras e	12/16/20 09:40
R-EVE	6.60	Assign Peak	contreras e	12/16/20 09:45
R-PSDA	6.70	Assign Peak	contreras e	12/16/20 09:40
Hydrolyzed PSDA	6.81	Assign Peak	contreras e	12/16/20 09:40
PMPA	6.85	Incomplete Integration	contreras e	12/16/20 09:41
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:41

Lab Sample ID: IC 320-442814/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 23:07 Lab File ID: 2020.12.15\_TB3\_ICAL\_014.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.72	Assign Peak	contreras e	12/16/20 09:41
R-EVE	6.61	Assign Peak	contreras e	12/16/20 09:46
R-PSDA	6.71	Assign Peak	contreras e	12/16/20 09:41
Hydrolyzed PSDA	6.82	Assign Peak	contreras e	12/16/20 09:41
PMPA	6.87	Incomplete Integration	contreras e	12/16/20 09:41
NVHOS	7.44	Incomplete Integration	contreras e	12/16/20 09:42

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 442814

Lab Sample ID: ICV 320-442814/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 12/15/20 23:43 Lab File ID: 2020.12.15\_TB3\_ICAL\_016.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.31	Assign Peak	contreras e	12/16/20 10:25
R-EVE	6.87	Assign Peak	contreras e	12/16/20 10:25
R-PSDA	6.95	Assign Peak	contreras e	12/16/20 10:25
Hydrolyzed PSDA	7.03	Assign Peak	contreras e	12/16/20 10:25

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 450034

Lab Sample ID: CCV 320-450034/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/10/21 04:59 Lab File ID: 2021.01.09\_TB3\_A7\_B\_036.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	7.18	Incomplete Integration	contreras e	01/10/21 08:02
R-PSDA	7.24	Incomplete Integration	contreras e	01/10/21 08:02
PMPA	7.36	Incomplete Integration	contreras e	01/10/21 08:02

Lab Sample ID: MB 320-449645/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/10/21 05:34 Lab File ID: 2021.01.09\_TB3\_A7\_B\_038.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFO2HxA	8.24	Baseline	ruangyots akuld	01/11/21 07:55
PS Acid	10.45	Baseline	ruangyots akuld	01/11/21 07:55

Lab Sample ID: 320-68542-1 Client Sample ID: SEEP-C-INFLUENT-24-123120

Date Analyzed: 01/10/21 05:52 Lab File ID: 2021.01.09\_TB3\_A7\_B\_039.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.43	Baseline	ruangyots akuld	01/11/21 07:56
R-EVE	6.91	Baseline	ruangyots akuld	01/11/21 07:56
R-PSDA	6.99	Baseline	ruangyots akuld	01/11/21 07:56
PFO2HxA	8.23	Baseline	ruangyots akuld	01/11/21 07:56

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 450034

Lab Sample ID: 320-68542-4 Client Sample ID: SEEP-C-FBLK-123120

Date Analyzed: 01/10/21 06:27 Lab File ID: 2021.01.09\_TB3\_A7\_B\_041.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFO2HxA	8.19	Baseline	ruangyots akuld	01/11/21 07:57

Lab Sample ID: 320-68542-2 DU Client Sample ID: SEEP-C-EFFLUENT-24-123120 DU

Date Analyzed: 01/10/21 07:02 Lab File ID: 2021.01.09\_TB3\_A7\_B\_043.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PS Acid	10.45	Baseline	ruangyots akuld	01/11/21 07:58

Lab Sample ID: 320-68542-2 MS Client Sample ID: SEEP-C-EFFLUENT-24-123120 MS

Date Analyzed: 01/10/21 07:20 Lab File ID: 2021.01.09\_TB3\_A7\_B\_044.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.14	Baseline	ruangyots akuld	01/11/21 07:58
PMPA	6.97	Baseline	ruangyots akuld	01/11/21 07:58
R-EVE	7.19	Baseline	ruangyots akuld	01/11/21 07:58
R-PSDA	7.24	Baseline	ruangyots akuld	01/11/21 07:58
Hydrolyzed PSDA	7.29	Baseline	ruangyots akuld	01/11/21 07:58

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 450034

Lab Sample ID: LCS 320-449645/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/10/21 07:37 Lab File ID: 2021.01.09\_TB3\_A7\_B\_045.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.67	Baseline	ruangyots akuld	01/11/21 07:59
R-PSDA	6.78	Baseline	ruangyots akuld	01/11/21 07:59
Hydrolyzed PSDA	6.89	Baseline	ruangyots akuld	01/11/21 07:59
PMPA	6.92	Baseline	ruangyots akuld	01/11/21 07:59
NVHOS	7.55	Baseline	ruangyots akuld	01/11/21 07:59

Lab Sample ID: LCSD 320-449645/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/10/21 07:55 Lab File ID: 2021.01.09\_TB3\_A7\_B\_046.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	7.18	Baseline	ruangyots akuld	01/11/21 08:00
R-PSDA	7.24	Baseline	ruangyots akuld	01/11/21 08:00

Lab Sample ID: CCV 320-450034/13 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/10/21 08:30 Lab File ID: 2021.01.09\_TB3\_A7\_B\_048.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.54	Baseline	ruangyots akuld	01/11/21 07:55

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00016</b>	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLICV_00044</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_ICVSP_00014	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
...LCM3HFPO-DA_00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00052</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFMOAA	0.001 ug/L
		PFO2HxA	0.001 ug/L					
		PFO3OA	0.001 ug/L					
		PFO4DA	0.001 ug/L					
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C4 PFHPA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHPA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD10_00037	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
							PFO3OA	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00042</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
		PFO2HxA	0.0025 ug/L					
		PFO30A	0.0025 ug/L					
		PFO4DA	0.0025 ug/L					
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA 00001	100 uL	PFO5DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00042</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
							PFO2HxA	0.005 ug/L
							PFO3OA	0.005 ug/L
							PFO4DA	0.005 ug/L
							PFO5DA	0.005 ug/L
							PMPA	0.005 ug/L
							R-EVE	0.005 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00041</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00051</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
							PFO2HxA	0.025 ug/L
		PFO3OA	0.025 ug/L					
		PFO4DA	0.025 ug/L					
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00051</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
							PFO3OA	0.05 ug/L
							PFO4DA	0.05 ug/L
							PFO5DA	0.05 ug/L
							PMPA	0.05 ug/L
							R-EVE	0.05 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL	
					LCM4PFHFA_00029	500 uL	13C4 PFHpa	0.5 ug/mL	
...LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL	
...LCM4PFHFA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpa0120			(Purchased Reagent)		13C4 PFHpa	50 ug/mL	
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L	
							Perfluoroheptanoic acid	5 ug/L	
							PS Acid	5 ug/L	
							Hydro-PS Acid	5 ug/L	
							R-PSDA	5 ug/L	
							Hydrolyzed PSDA	5 ug/L	
							R-PSDCA	5 ug/L	
							EVE Acid	5 ug/L	
							Hydro-EVE Acid	5 ug/L	
							NVHOS	5 ug/L	
							PEPA	5 ug/L	
							PES	5 ug/L	
							PFECA B	5 ug/L	
							PFECA G	5 ug/L	
							PFMOAA	5 ug/L	
							PFO2HxA	5 ug/L	
							PFO30A	5 ug/L	
							PFO4DA	5 ug/L	
PFO5DA	5 ug/L								
PMPA	5 ug/L								
R-EVE	5 ug/L								
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L	
						LCPFHpa_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
						LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
								Hydro-PS Acid	50 ug/L
								R-PSDA	50 ug/L
								Hydrolyzed PSDA	50 ug/L
								R-PSDCA	50 ug/L
								EVE Acid	50 ug/L
								Hydro-EVE Acid	50 ug/L
								NVHOS	50 ug/L
								PEPA	50 ug/L
								PES	50 ug/L
								PFECA B	50 ug/L
PFECA G	50 ug/L								
...LCHFPO-DA_00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)		HFPO-DA	50 ug/mL	



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFHpA 00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD7_00308	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C4 PFHpA	5 ug/L
					LCM4PFHPA 00029	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C4 PFHpA	0.5 ug/mL
..LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
....LCPFCA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL		
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL		
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL		
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL		
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL		
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL		
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL		
<b>LCTB3_LLSTD7_00340</b>	01/17/21	01/08/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L		
							13C4 PFHpA	0.25 ug/L		
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L		
							PS Acid	0.1 ug/L		
							Hydro-PS Acid	0.1 ug/L		
							R-PSDA	0.1 ug/L		
							Hydrolyzed PSDA	0.1 ug/L		
							R-PSDCA	0.1 ug/L		
							EVE Acid	0.1 ug/L		
							Hydro-EVE Acid	0.1 ug/L		
							NVHOS	0.1 ug/L		
							PEPA	0.1 ug/L		
							PES	0.1 ug/L		
							PFECA B	0.1 ug/L		
							PFECA G	0.1 ug/L		
							PFMOAA	0.1 ug/L		
							PFO2HxA	0.1 ug/L		
		PFO3OA	0.1 ug/L							
		PFO4DA	0.1 ug/L							
		PFO5DA	0.1 ug/L							
		PMPA	0.1 ug/L							
		R-EVE	0.1 ug/L							
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L		
							13C4 PFHpA	5 ug/L		
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL		
					LCM4PFHPA 00029	500 uL	13C4 PFHpA	0.5 ug/mL		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL		
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHpA0120		(Purchased Reagent)		13C4 PFHpA	50 ug/mL		
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L		
							PS Acid	5 ug/L		
							Hydro-PS Acid	5 ug/L		
							R-PSDA	5 ug/L		
							Hydrolyzed PSDA	5 ug/L		
							R-PSDCA	5 ug/L		
							EVE Acid	5 ug/L		
							Hydro-EVE Acid	5 ug/L		
							NVHOS	5 ug/L		
							PEPA	5 ug/L		
									PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD8_00040</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	500 uL	HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFM0AA	0.25 ug/L
PFO2HxA	0.25 ug/L							
PFO30A	0.25 ug/L							
PFO4DA	0.25 ug/L							
PFO5DA	0.25 ug/L							
PMPA	0.25 ug/L							
R-EVE	0.25 ug/L							
..LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00022	05/13/23		WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00029	01/08/25		Wellington Laboratories, Lot M4PFHPA0120			(Purchased Reagent)	13C4 PFHPA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHPA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00038</b>	01/17/21	12/15/20	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00017	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
							PFO2HxA	0.5 ug/L
							PFO3OA	0.5 ug/L
							PFO4DA	0.5 ug/L
							PFO5DA	0.5 ug/L
							PMPA	0.5 ug/L
							R-EVE	0.5 ug/L
.LCMTB3_SU_00017	01/17/21	10/14/20	Methanol, Lot 2196002	250 mL	LCMTB3_SU_00010	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00010	01/17/21	07/17/20	Methanol, Lot Fisher 200718	50 mL	LCM3HFPO-DA_00022	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00029	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00022	05/13/23	WELLINGTON, Lot M3HFPODA0520			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00029	01/08/25	Wellington Laboratories, Lot M4PFHpA0120			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_SP_00063</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							DFSA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							MMF	5 ug/L
							MTP	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							PPF Acid	5 ug/L
							R-EVE	5 ug/L
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							DFSA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							MMF	50 ug/L
							MTP	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							PPF Acid	50 ug/L
							R-EVE	50 ug/L
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
...LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
...LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
...LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
...LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPFFA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL

Reagent

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**LCHFPO-DA\_00014**



2106190  
 ID: LCHFPO-DA\_00014  
 Exp: 07/09/23 Prpd: YH  
 HFPO-DA

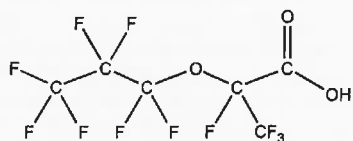


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>7</sub>F<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
 B.G. Chittim, General Manager **Date:** 07/16/2020  
 (mm/dd/yyyy)

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
**519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

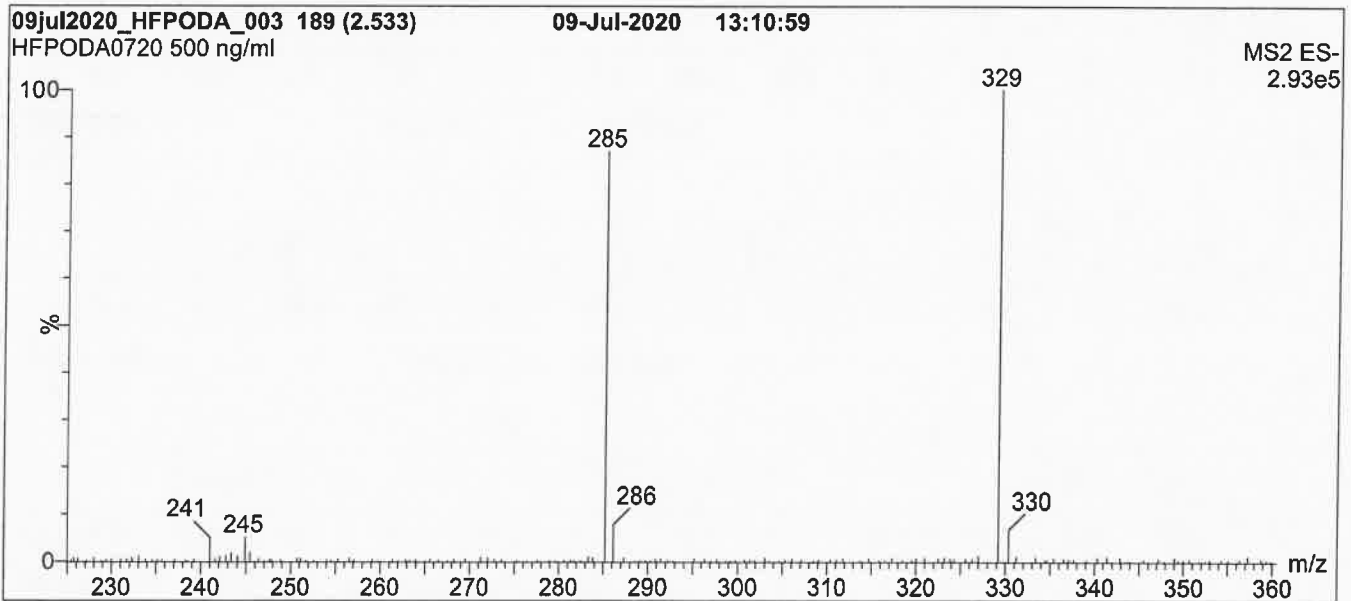
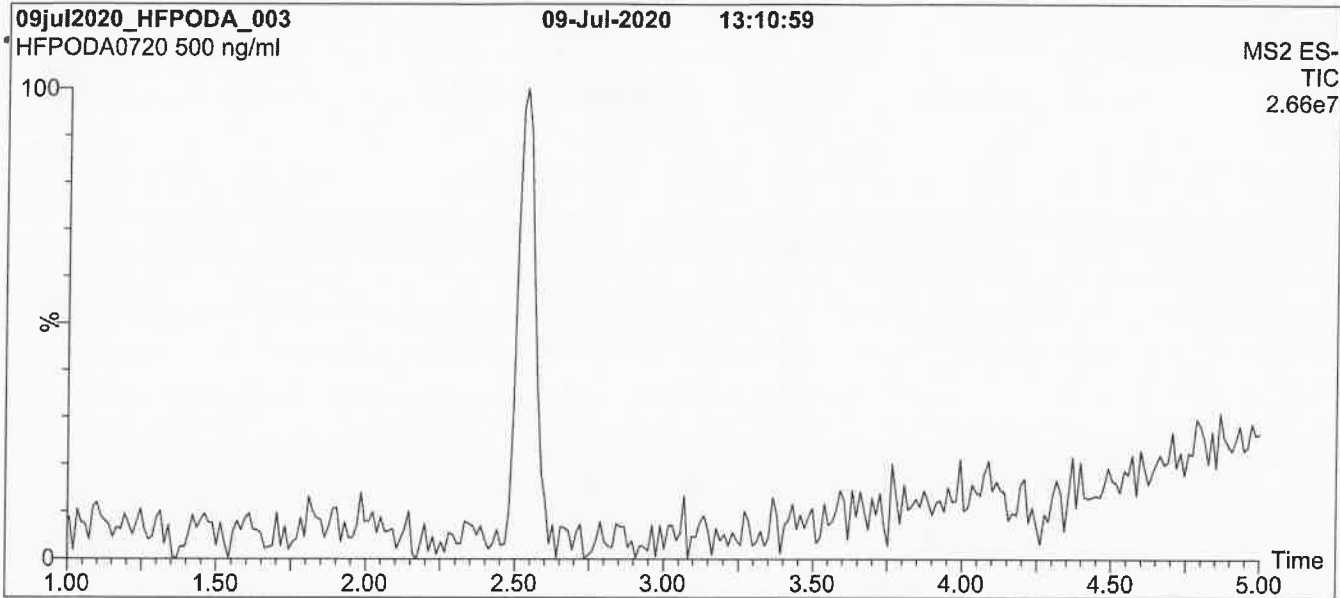
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*



**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

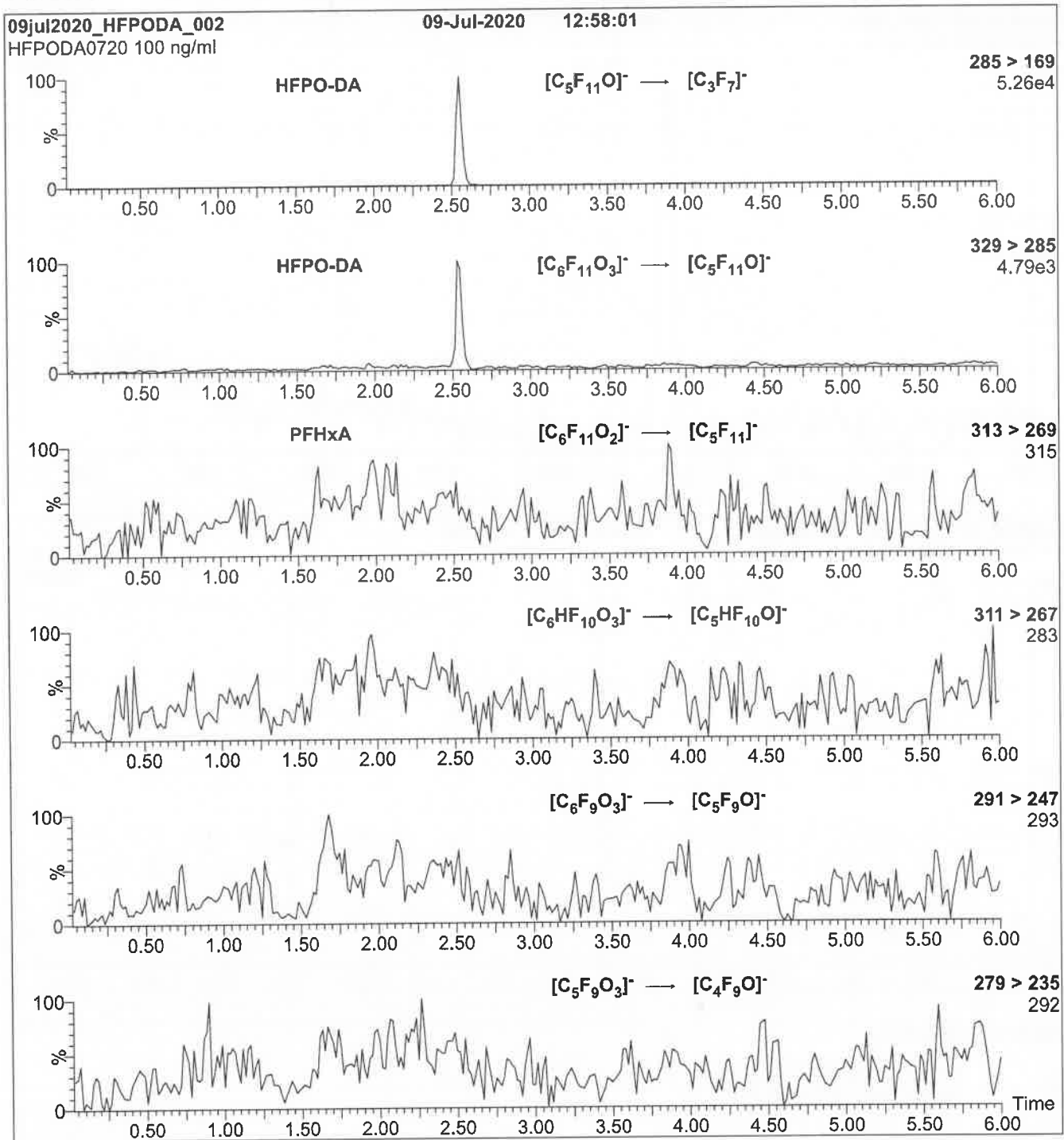
**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature (°C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Flow:** 300  $\mu$ l/min

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

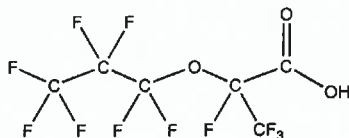
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**LCHEPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>11</sub>F<sub>10</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

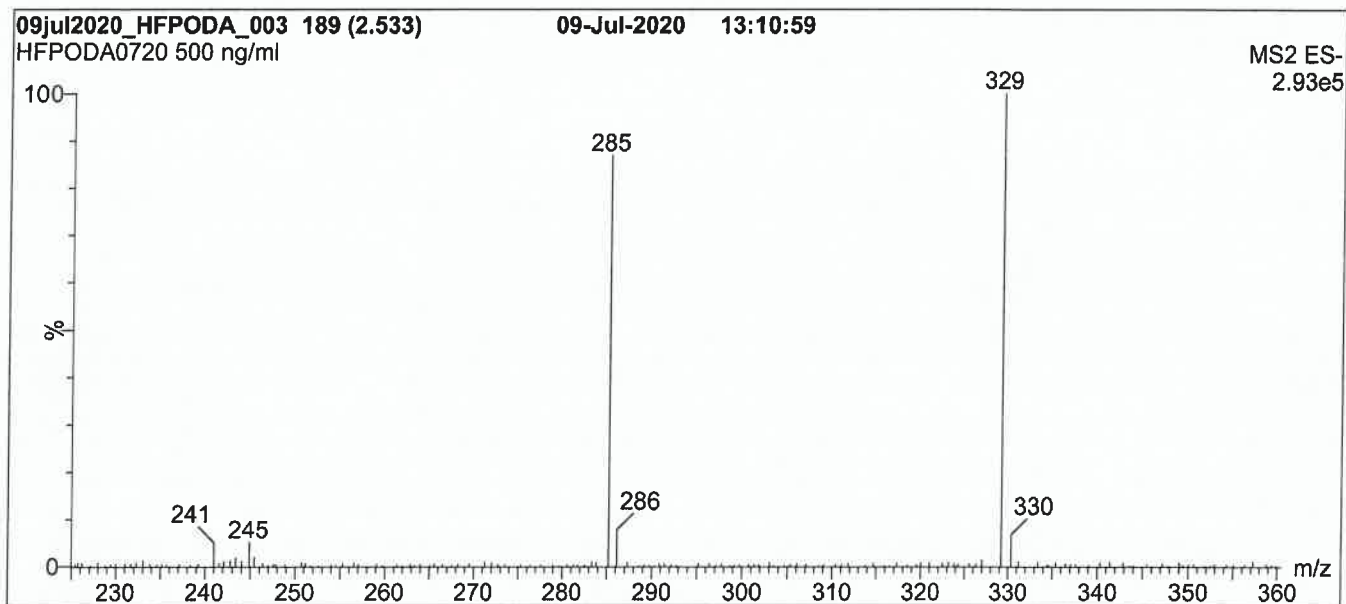
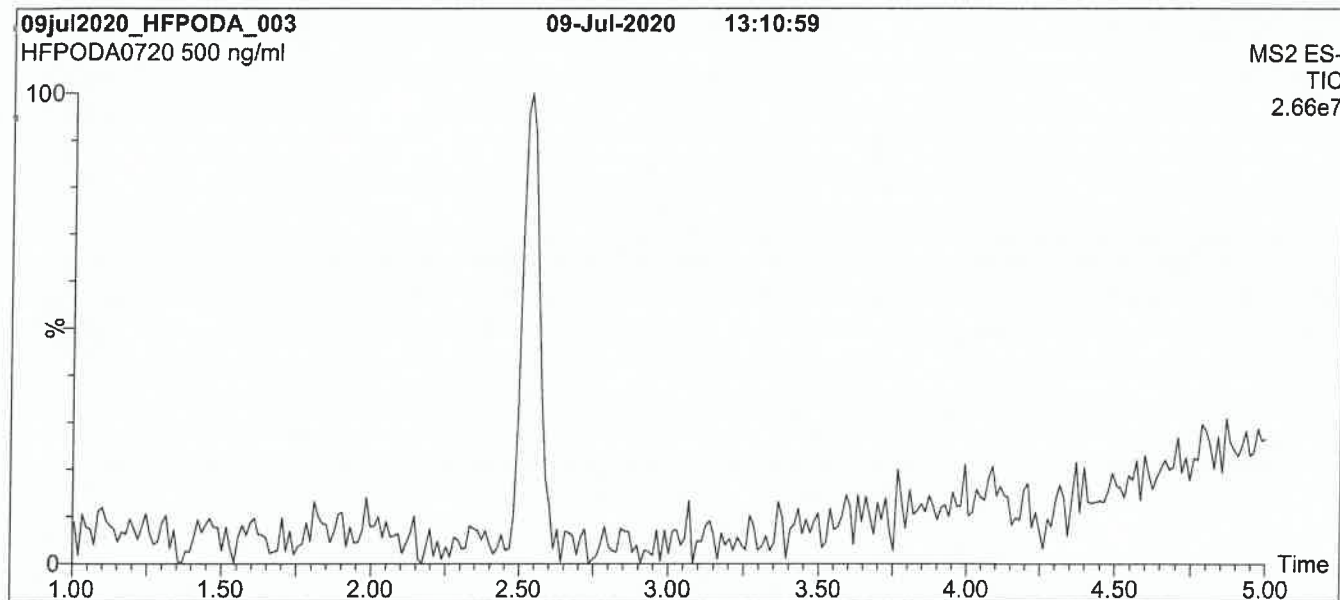
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

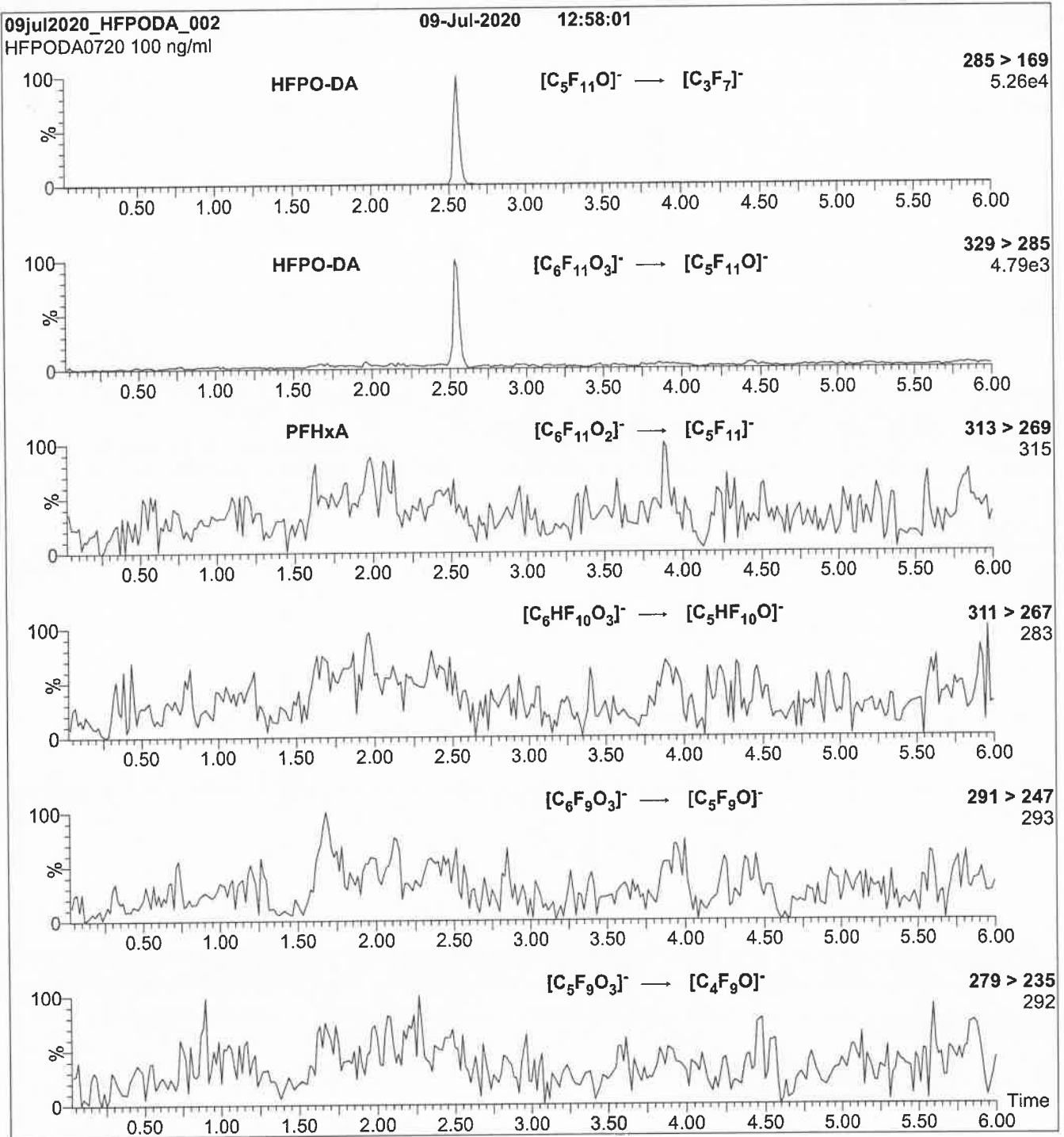
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

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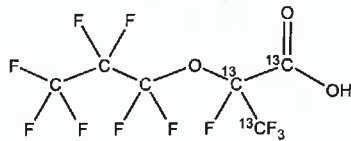
**LCM3HFPO-DA\_00022**





**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA0520  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>3</sub><sup>12</sup>C<sub>3</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 333.03  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% **ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
**LAST TESTED:** (mm/dd/yyyy) 05/13/2020 (<sup>13</sup>C<sub>3</sub>)  
**EXPIRY DATE:** (mm/dd/yyyy) 05/13/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains ~ 1.9% of the linear M3HFPO-DA isomer.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 05/22/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

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**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

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The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

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**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

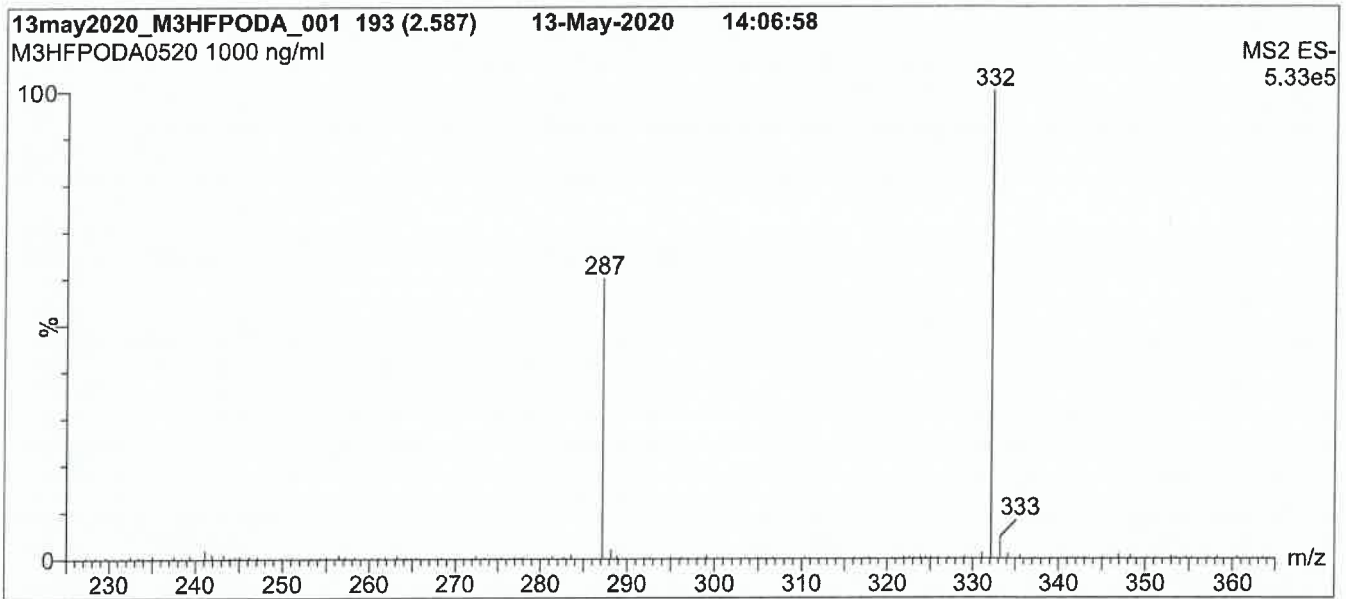
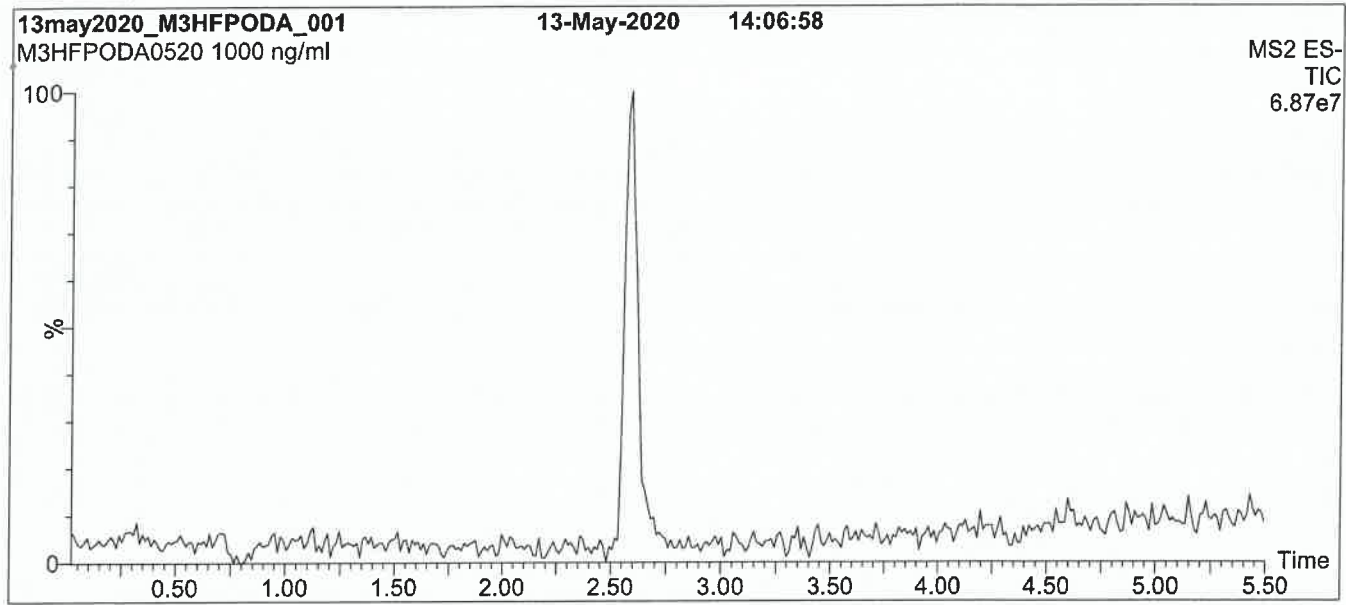
**QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

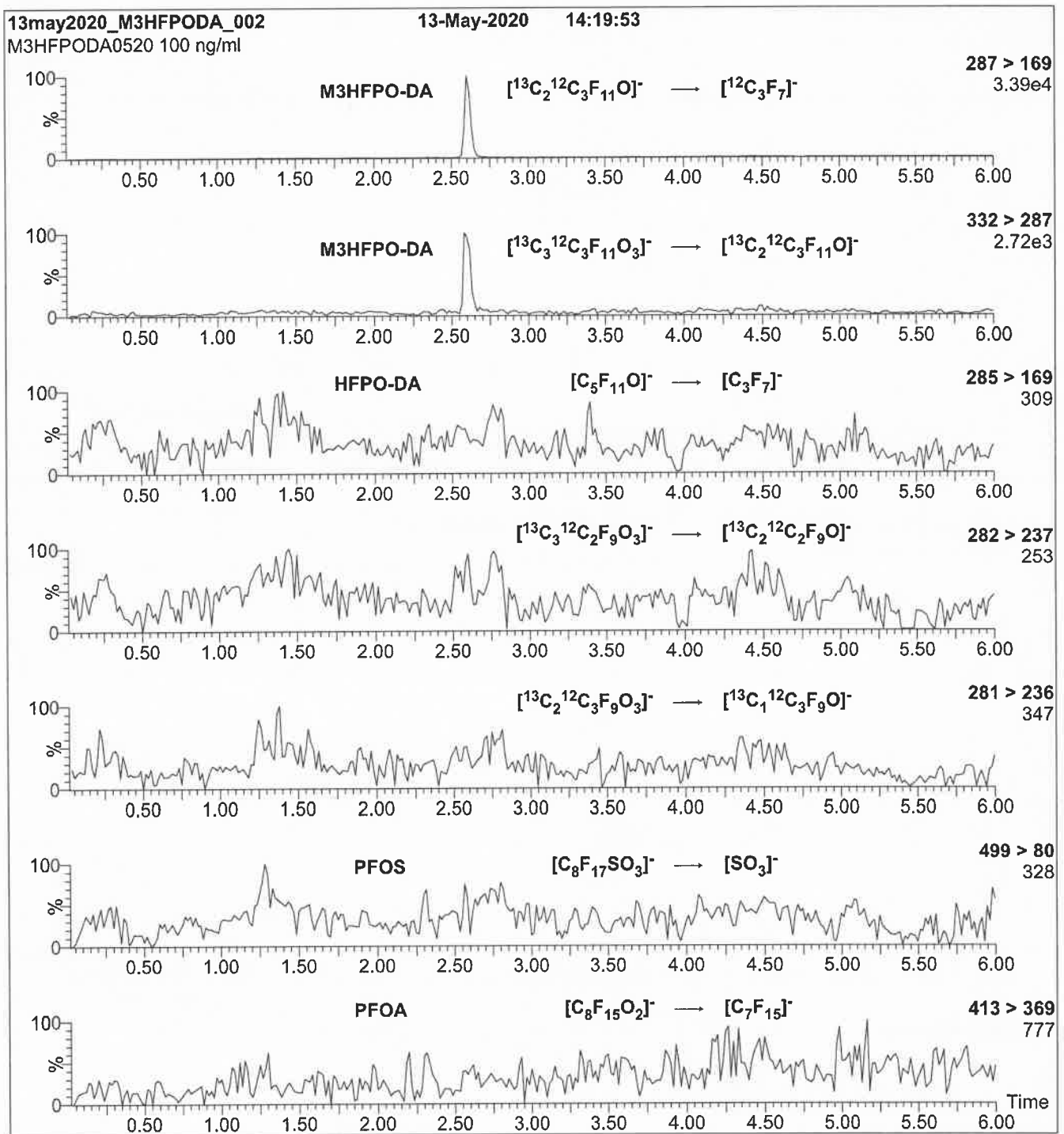
Flow: 300 μl/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature (°C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{l}/\text{min}$

**MS Parameters**

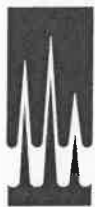
Collision Gas (mbar) = 3.31e-3

Collision Energy (eV) = 8

Reagent

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**LCM4PFHPA\_00029**

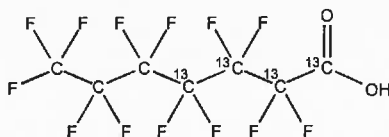


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0120

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)

**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 01/08/2020

**ISOTOPIC PURITY:** ≥99%<sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**EXPIRY DATE:** (mm/dd/yyyy) 01/08/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 01/24/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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### **EXPIRY DATE / PERIOD OF VALIDITY:**

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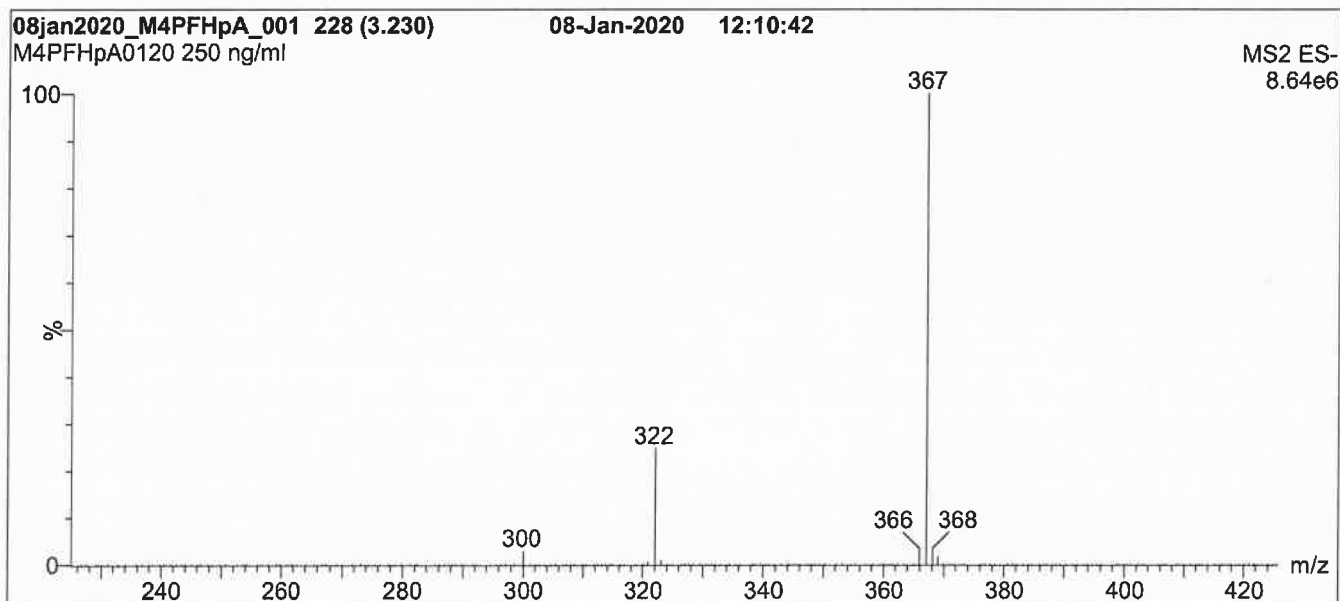
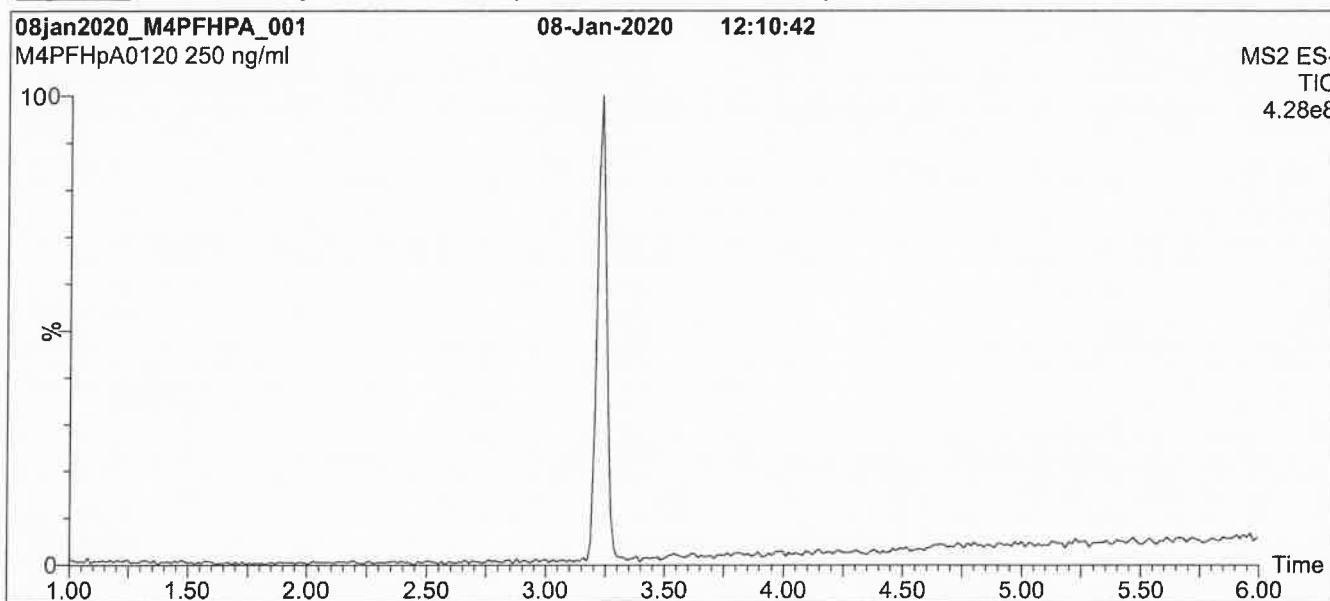
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**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

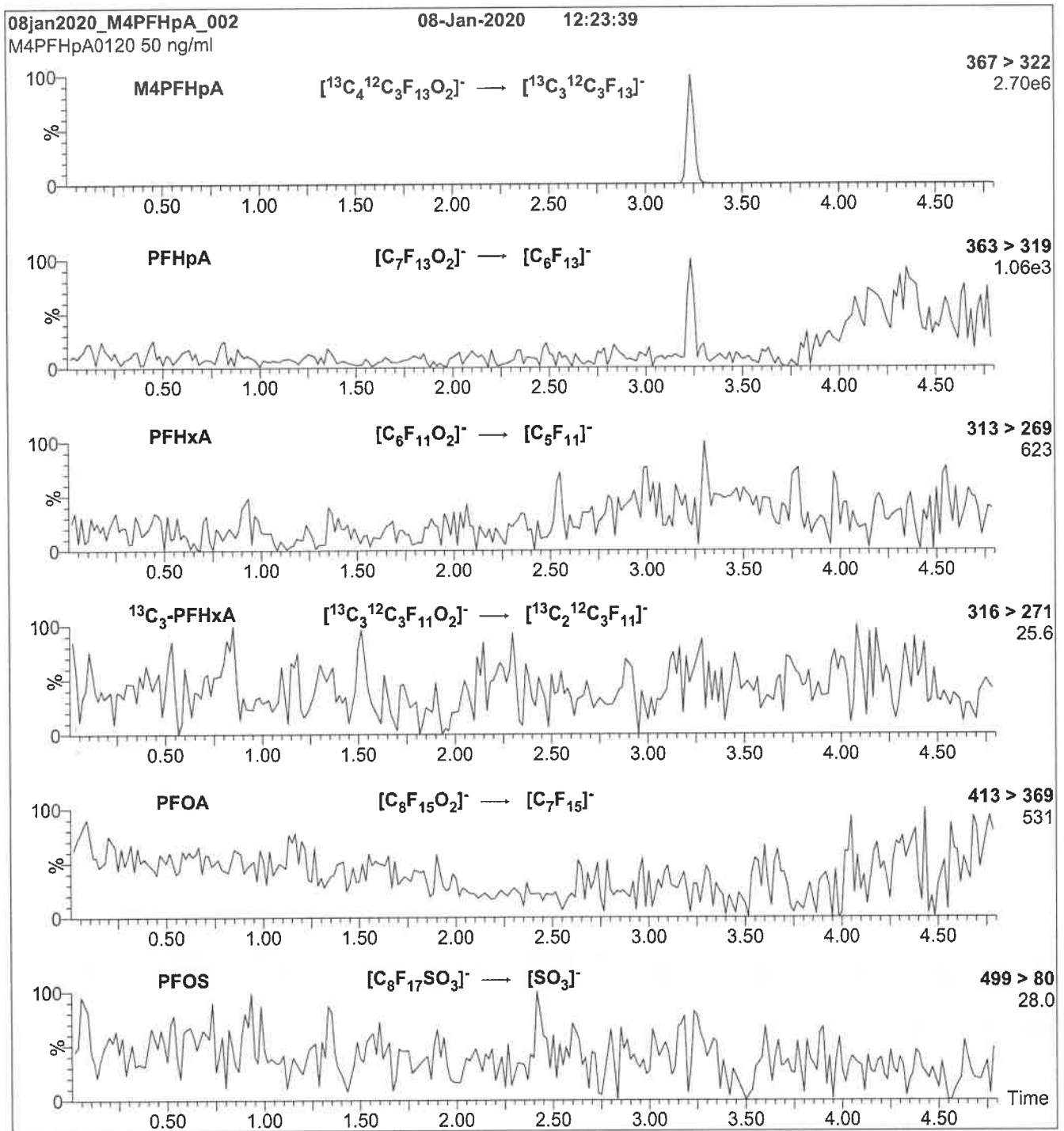
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)  
Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (l/hr) = 1000



**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu\text{l}/\text{min}$

**MS Parameters**

Collision Gas (mbar) = 3.49e-3  
Collision Energy (eV) = 8

Reagent

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**LCPFHpA\_00020**



### **INTENDED USE:**

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### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

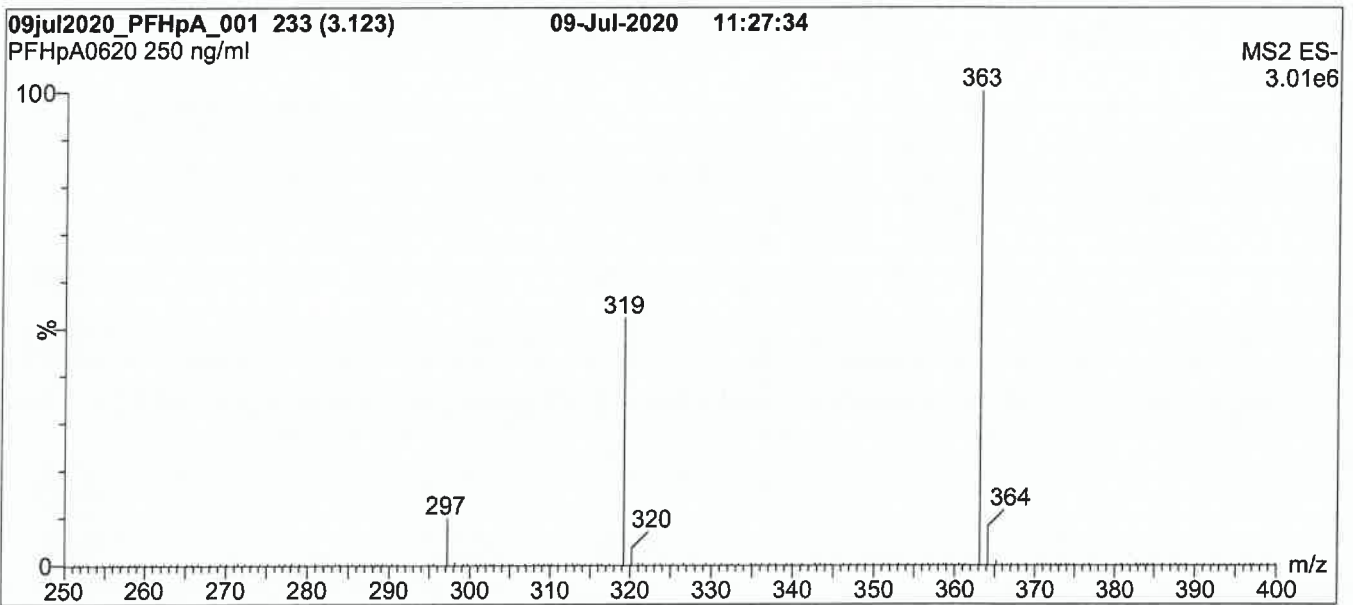
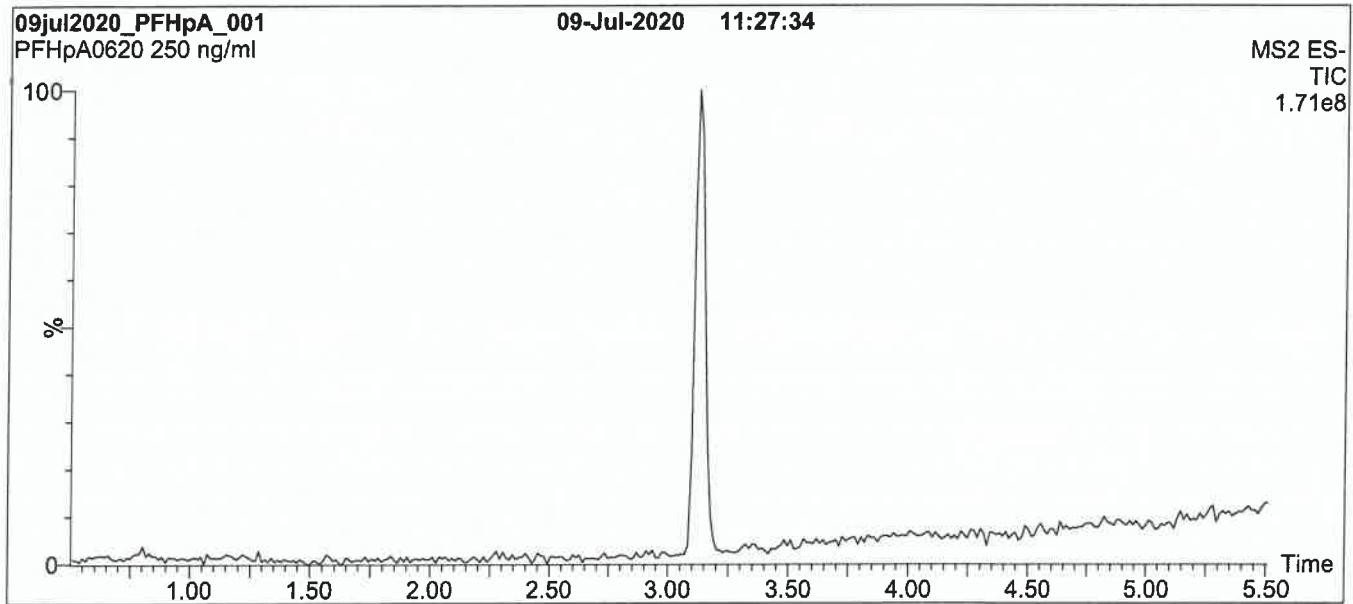
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

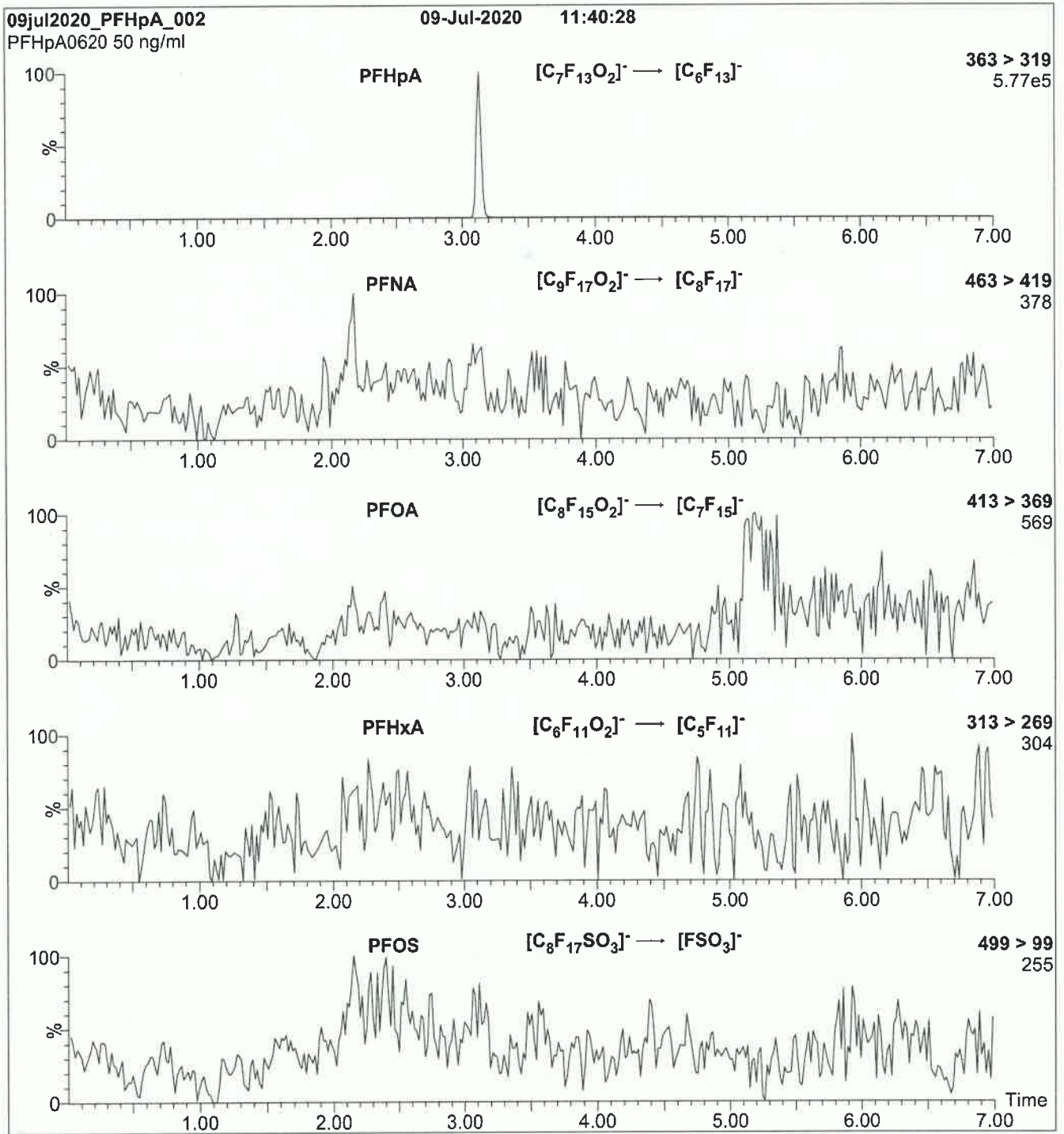
**Flow:** 300 μl/min

**MS Parameters**

**Experiment:** Full Scan (250 - 850 amu)

**Source:** Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature (°C) = 500  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

# PFAS\_CHEM\_TB3P

---

Fluoroproducts Analytical Method -  
Table 3+

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-INFLUENT-24 -123120	320-68542-1	100
SEEP-C-EFFLUENT-24 -123120	320-68542-2	109
SEEP-C-EFFLUENT-24 -123120-D	320-68542-3	105
SEEP-C-FBLK-123120	320-68542-4	100
	MB 320-449645/1-A	112
	LCS 320-449645/2-A	113
	LCSD 320-449645/3-A	103
SEEP-C-EFFLUENT-24 -123120 MS	320-68542-2 MS	106
SEEP-C-EFFLUENT-24 -123120 DU	320-68542-2 DU	105

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)



FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.01.09\_TB3\_A7\_B\_045.d  
 Lab ID: LCS 320-449645/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.564	113	25-150	
EVE Acid	0.200	0.206	103	70-130	
HFPO-DA	0.200	0.198	99	70-130	
Hydro-EVE Acid	0.200	0.212	106	70-130	
Hydrolyzed PSDA	0.200	0.219	110	50-150	
Hydro-PS Acid	0.200	0.209	105	70-130	
NVHOS	0.200	0.202	101	70-130	
PEPA	0.200	0.200	100	70-130	
PES	0.200	0.196	98	70-130	
PFECA B	0.200	0.211	105	70-130	
PFECA G	0.200	0.180	90	70-130	
PFMOAA	0.200	0.214	107	70-130	
PFO2HxA	0.200	0.199	100	70-130	
PFO3OA	0.200	0.190	95	70-130	
PFO4DA	0.200	0.199	100	50-150	
PFO5DA	0.200	0.201	100	50-150	
PMPA	0.200	0.197	99	70-130	
PS Acid	0.200	0.199	99	70-130	
R-EVE	0.200	0.205	102	50-150	
R-PSDA	0.200	0.213	107	50-150	
R-PSDCA	0.200	0.212	106	70-130	

# Column to be used to flag recovery and RPD values

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.01.09\_TB3\_A7\_B\_046.d

Lab ID: LCSD 320-449645/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.515	103			25-150	
EVE Acid	0.200	0.190	95	8	25	70-130	
HFPO-DA	0.200	0.201	100	2	25	70-130	
Hydro-EVE Acid	0.200	0.197	99	7	25	70-130	
Hydrolyzed PSDA	0.200	0.165	83	28	25	50-150	*1
Hydro-PS Acid	0.200	0.196	98	7	25	70-130	
NVHOS	0.200	0.174	87	15	25	70-130	
PEPA	0.200	0.182	91	10	25	70-130	
PES	0.200	0.181	91	8	25	70-130	
PFECA B	0.200	0.187	94	12	25	70-130	
PFECA G	0.200	0.175	87	3	25	70-130	
PFMOAA	0.200	0.171	86	22	25	70-130	
PFO2HxA	0.200	0.183	91	9	25	70-130	
PFO3OA	0.200	0.191	96	0	25	70-130	
PFO4DA	0.200	0.167	84	18	25	50-150	
PFO5DA	0.200	0.195	98	3	25	50-150	
PMPA	0.200	0.166	83	17	25	70-130	
PS Acid	0.200	0.187	94	6	25	70-130	
R-EVE	0.200	0.164	82	22	25	50-150	
R-PSDA	0.200	0.164	82	26	25	50-150	*1
R-PSDCA	0.200	0.198	99	7	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.01.09\_TB3\_A7\_B\_044.d  
 Lab ID: 320-68542-2 MS      Client ID: SEEP-C-EFFLUENT-24-123120 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
13C3 HFPO-DA	50.0	55	53.1	106	25-150	
EVE Acid	20.0	<0.017	19.6	98	70-130	
HFPO-DA	20.0	<0.081	20.0	100	70-130	
Hydro-EVE Acid	20.0	<0.014	20.3	101	70-130	
Hydrolyzed PSDA	20.0	<0.038	21.5	107	50-150	
Hydro-PS Acid	20.0	<0.0061	21.4	107	70-130	
NVHOS	20.0	<0.015	20.0	100	70-130	
PEPA	20.0	<0.016	19.8	99	70-130	
PES	20.0	<0.0067	19.6	98	70-130	
PFECA B	20.0	<0.027	20.3	102	70-130	
PFECA G	20.0	<0.048	18.3	92	70-130	
PFMOAA	20.0	<0.080	21.6	108	70-130	
PFO2HxA	20.0	0.13	19.6	97	70-130	
PFO3OA	20.0	<0.039	19.8	99	70-130	
PFO4DA	20.0	<0.059	15.8	79	50-150	
PFO5DA	20.0	<0.078	16.9	85	50-150	
PMPA	20.0	<0.62	19.6	98	70-130	
PS Acid	20.0	0.074	19.7	98	70-130	
R-EVE	20.0	<0.072	20.6	103	50-150	
R-PSDA	20.0	<0.071	21.7	108	50-150	
R-PSDCA	20.0	<0.017	22.7	114	70-130	

# Column to be used to flag recovery and RPD values

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.01.09\_TB3\_A7\_B\_038.d      Lab Sample ID: MB 320-449645/1-A  
 Matrix: Water      Date Extracted: 01/08/2021 08:21  
 Instrument ID: A7\_N      Date Analyzed: 01/10/2021 05:34  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-INFLUENT-24-123120	320-68542-1	2021.01.09_TB3_A7_B_039.d	01/10/2021 05:52
SEEP-C-EFFLUENT-24-123120-D	320-68542-3	2021.01.09_TB3_A7_B_040.d	01/10/2021 06:09
SEEP-C-FBLK-123120	320-68542-4	2021.01.09_TB3_A7_B_041.d	01/10/2021 06:27
SEEP-C-EFFLUENT-24-123120	320-68542-2	2021.01.09_TB3_A7_B_042.d	01/10/2021 06:45
SEEP-C-EFFLUENT-24-123120 DU	320-68542-2 DU	2021.01.09_TB3_A7_B_043.d	01/10/2021 07:02
SEEP-C-EFFLUENT-24-123120 MS	320-68542-2 MS	2021.01.09_TB3_A7_B_044.d	01/10/2021 07:20
	LCS 320-449645/2-A	2021.01.09_TB3_A7_B_045.d	01/10/2021 07:37
	LCSD 320-449645/3-A	2021.01.09_TB3_A7_B_046.d	01/10/2021 07:55

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-INFLUENT-24-123120 Lab Sample ID: 320-68542-1  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_039.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/31/2020 13:00  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 0.025 (mL) Date Analyzed: 01/10/2021 05:52  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.017		0.017	
13252-13-6	HFPO-DA	19		0.081	
773804-62-9	Hydro-EVE Acid	1.3		0.014	
2416366-19-1	Hydrolyzed PSDA	1.2	*1	0.038	
749836-20-2	Hydro-PS Acid	0.34		0.0061	
1132933-86-8	NVHOS	0.77		0.015	
267239-61-2	PEPA	2.9		0.016	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	74		0.080	
39492-88-1	PFO2HxA	23		0.027	
39492-89-2	PFO3OA	7.0		0.039	
39492-90-5	PFO4DA	2.4		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	8.9		0.62	
29311-67-9	PS Acid	0.064		0.020	
2416366-22-6	R-EVE	0.90		0.072	
2416366-18-0	R-PSDA	0.82	*1	0.071	
2416366-21-5	R-PSDCA	<0.017		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_039.d  
 Lims ID: 320-68542-A-1-A  
 Client ID: SEEP-C-INFLUENT-24-123120  
 Sample Type: Client  
 Inject. Date: 10-Jan-2021 05:52:18 ALS Bottle#: 39 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-1-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:56:48 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld

Date: 11-Jan-2021 07:56:48

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.434	2.452	0.982		4566368	0.3696		1033		M
2 R-EVE										M
405.00 > 217.00	6.911	7.182	-0.271		22717	0.004521		428		M
3 R-PSDA										M
440.90 > 241.00	6.990	7.237	-0.247		10513	0.004117		280		M
4 Hydrolyzed PSDA										
439.00 > 343.00	7.072	7.291	-0.219		66596	0.005849		1306		
5 PMPA										
229.00 > 185.00	7.127	7.360	-0.233		512361	0.0446		543		
6 NVHOS										
297.00 > 135.00	7.663	7.838	-0.175		61676	0.003853		699		
7 PFO2HxA										M
245.00 > 85.00	8.232	8.342	-0.110		1685619	0.1155		6658		M
8 PEPA										
278.90 > 234.90	8.858	8.890	-0.032		138023	0.0145		838		
11 PFO3OA										
310.90 > 85.00	9.627	9.623	0.004		424107	0.0348		6076		
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.709	9.734	-0.025		1235196	0.2506		100	35233	
13 HPFO-DA										
285.00 > 169.00	9.709	9.734	-0.025	1.000	539528	0.0960		15317		
14 R-PSDCA										
397.00 > 217.00	10.068	10.090	-0.022		7443	0.00006955		230		
16 Hydro-EVE Acid										
427.00 > 282.90	10.121	10.140	-0.020		384115	0.006697		9947		
17 Hydro-PS Acid										
463.00 > 262.90	10.147	10.165	-0.018		41218	0.001714		1537		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 PFO4DA										
376.90 > 85.00	10.377	10.413	-0.036		160993	0.0120			1563	
21 PS Acid										
443.00 > 146.90	10.451	10.462	-0.011		5304	0.000321			186	

**QC Flag Legend**

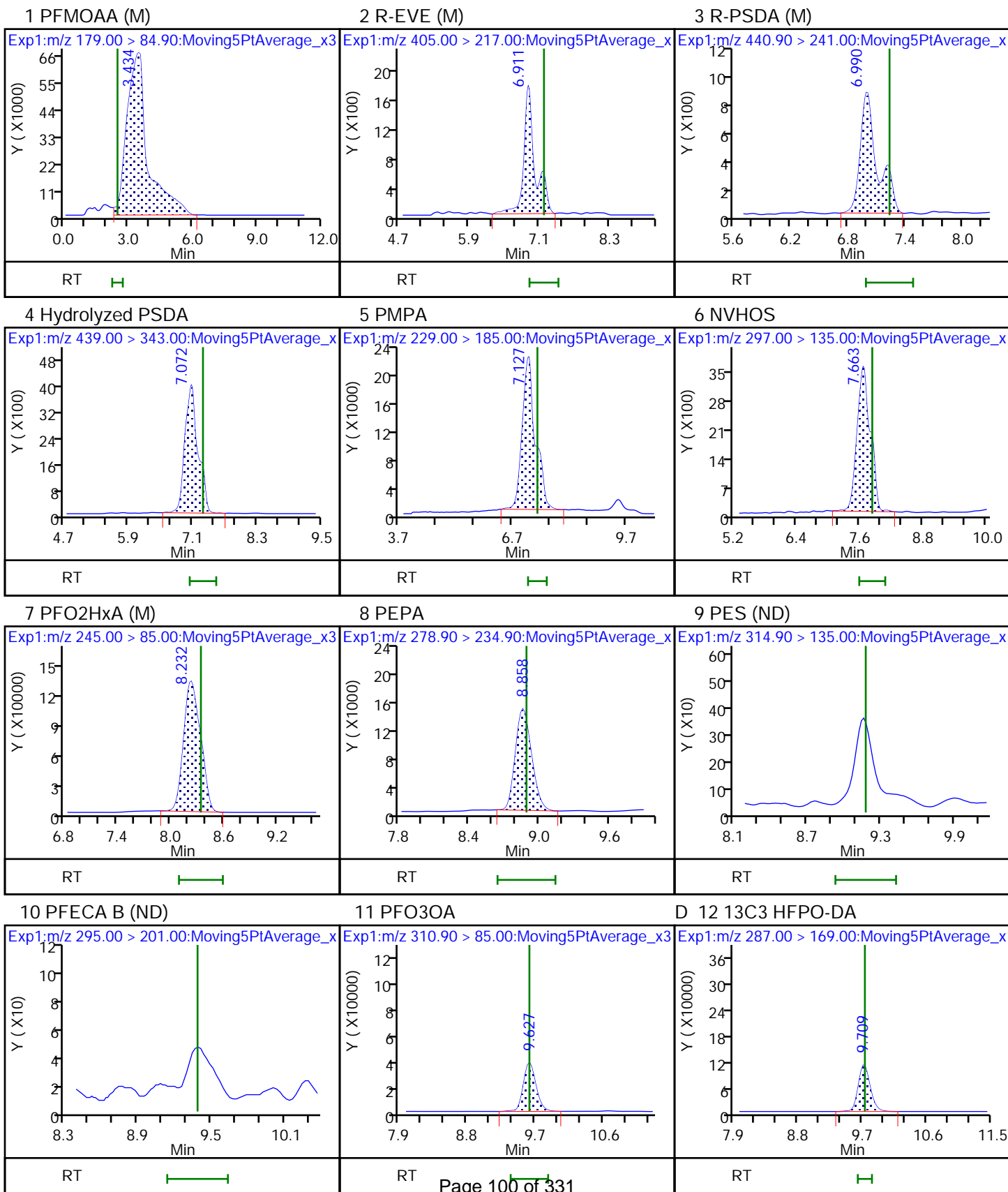
Processing Flags

Review Flags

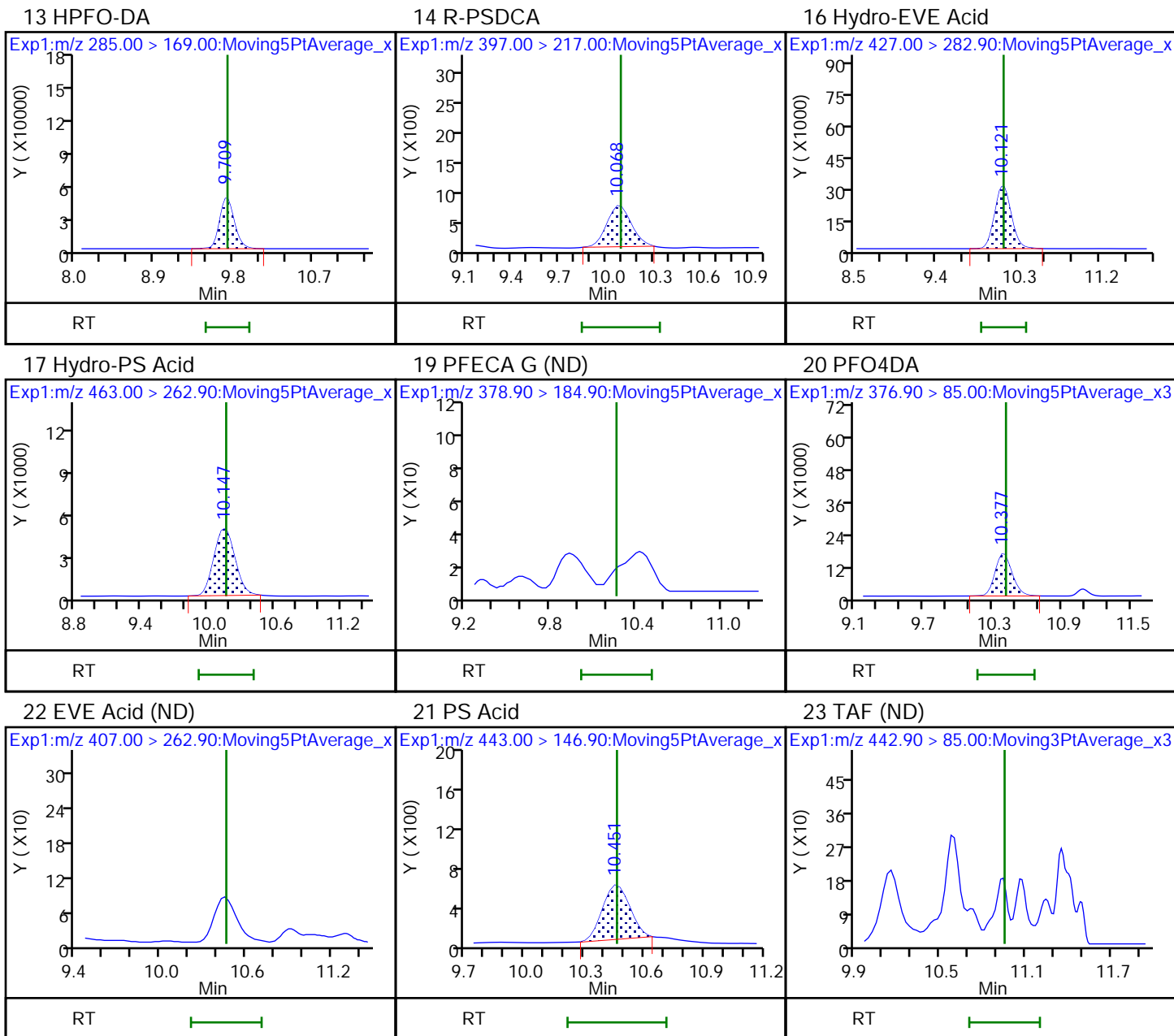
M - Manually Integrated

Eurofins TestAmerica, Sacramento

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Injection Date: 10-Jan-2021 05:52:18 Instrument ID: A7\_N  
Lims ID: 320-68542-A-1-A Lab Sample ID: 320-68542-1  
Client ID: SEEP-C-INFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 39 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

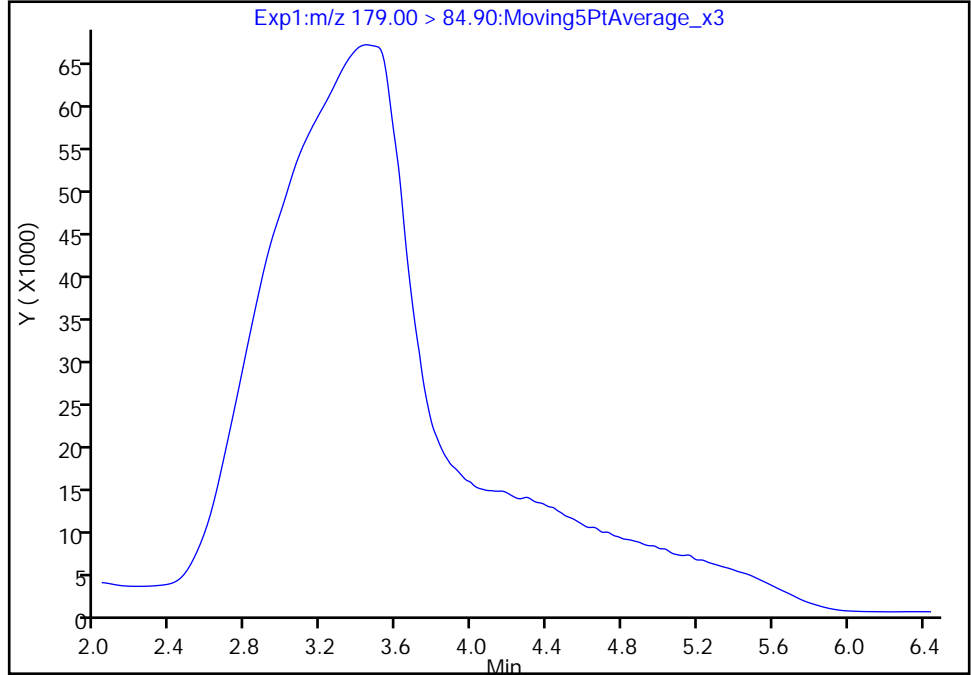
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Lims ID: 320-68542-A-1-A Lab Sample ID: 320-68542-1  
Client ID: SEEP-C-INFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 39 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

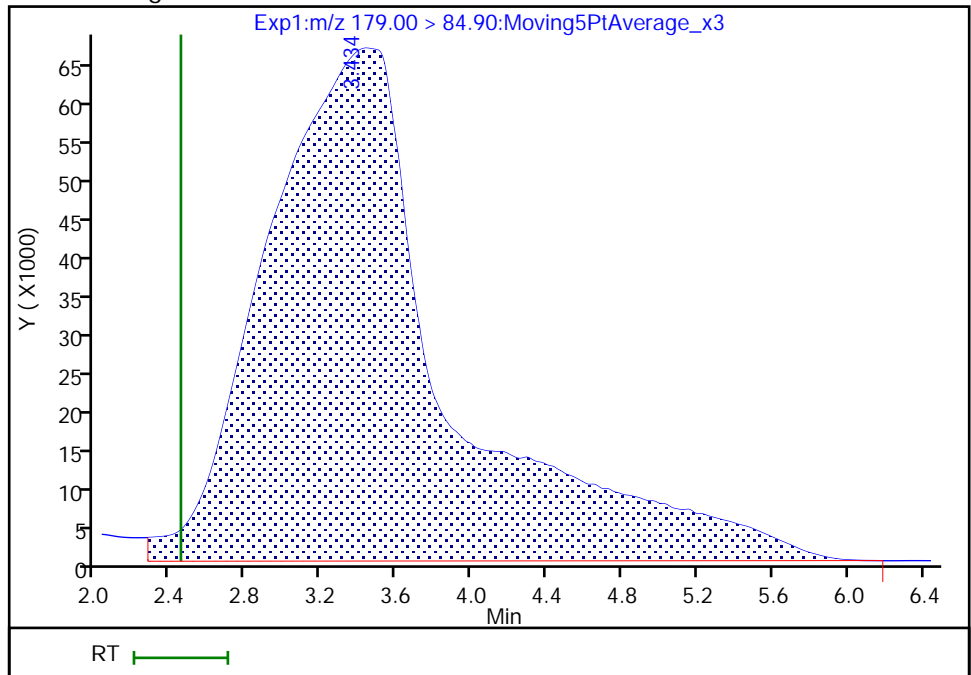
Not Detected  
Expected RT: 2.45

Processing Integration Results



RT: 3.43  
Area: 4566368  
Amount: 0.369551  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

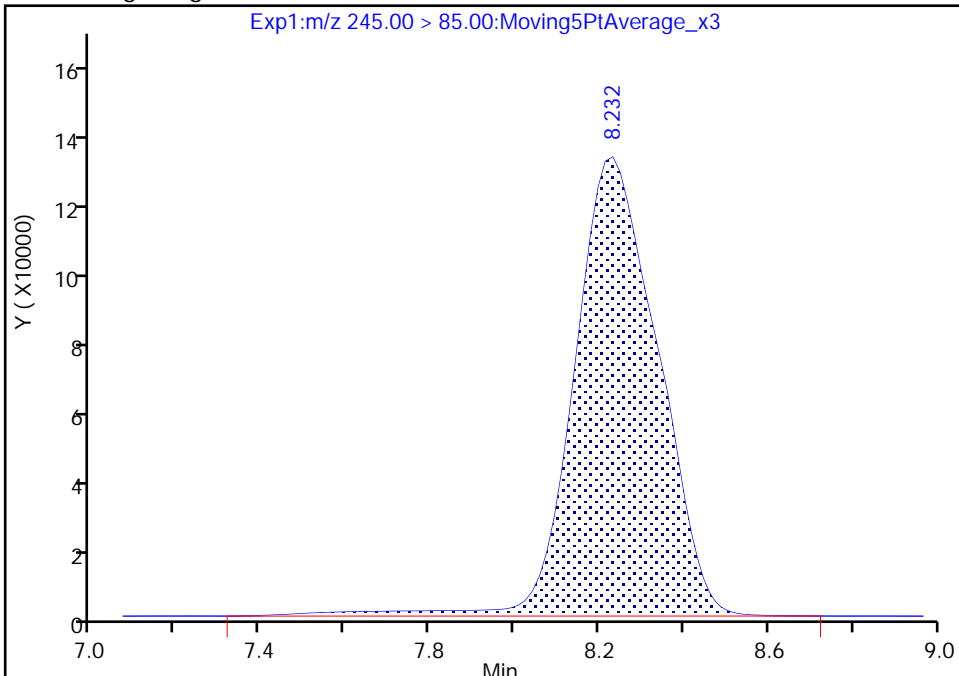
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Injection Date:	10-Jan-2021 05:52:18	Instrument ID:	A7_N
Lims ID:	320-68542-A-1-A	Lab Sample ID:	320-68542-1
Client ID:	SEEP-C-INFLUENT-24-123120		
Operator ID:	abservice	ALS Bottle#:	39
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm ( 3.00 mm)	Detector:	EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

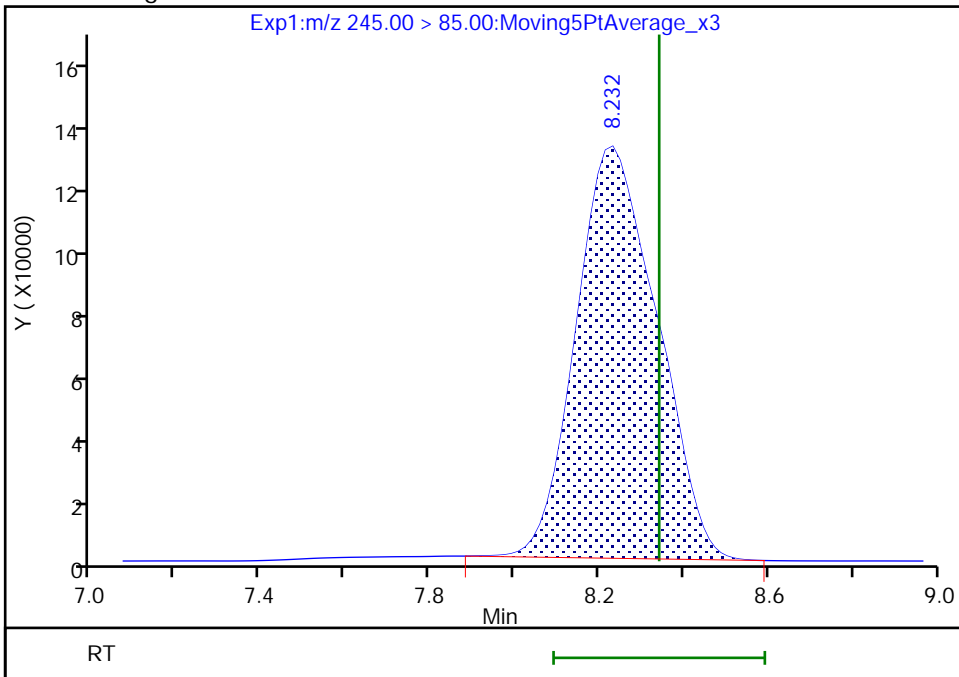
RT: 8.23  
 Area: 1750739  
 Amount: 0.119972  
 Amount Units: ng/ml

Processing Integration Results



RT: 8.23  
 Area: 1685619  
 Amount: 0.115509  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

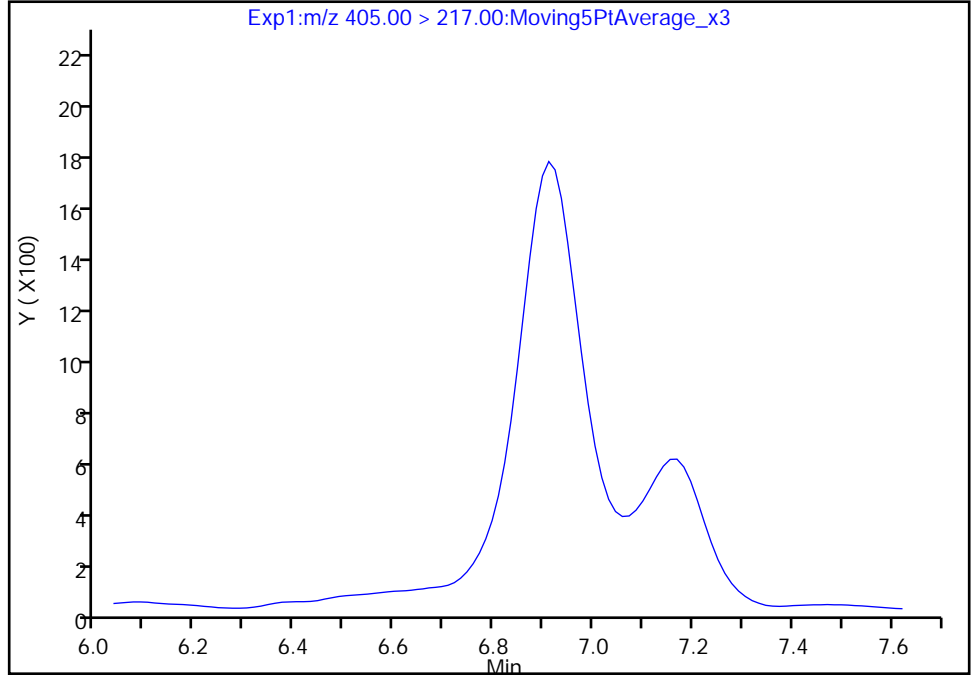
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Lims ID: 320-68542-A-1-A Lab Sample ID: 320-68542-1  
Client ID: SEEP-C-INFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 39 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

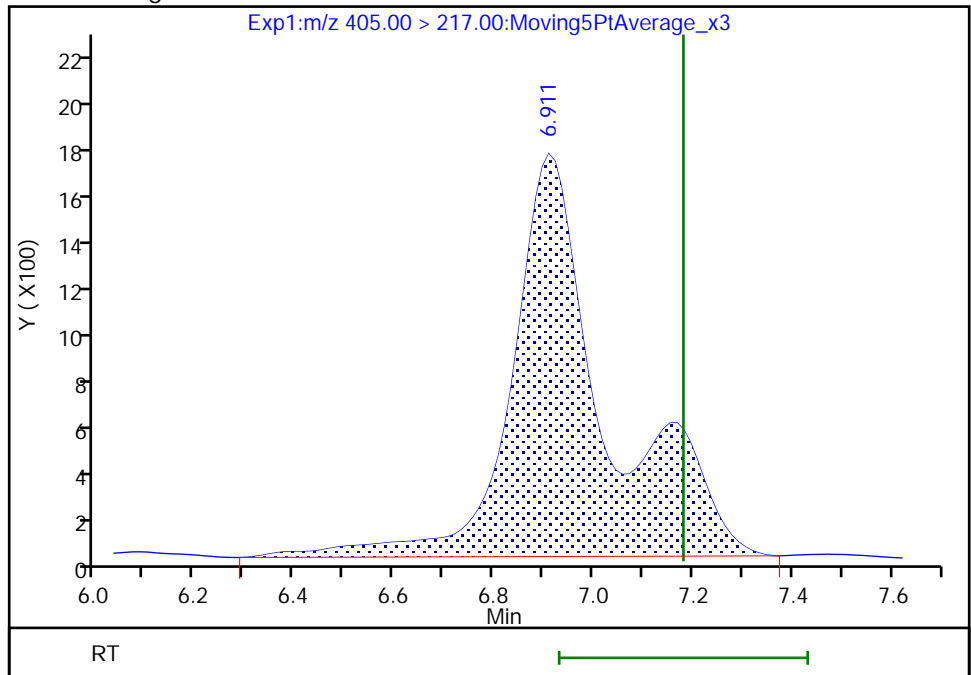
Not Detected  
Expected RT: 7.18

Processing Integration Results



Manual Integration Results

RT: 6.91  
Area: 22717  
Amount: 0.004521  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

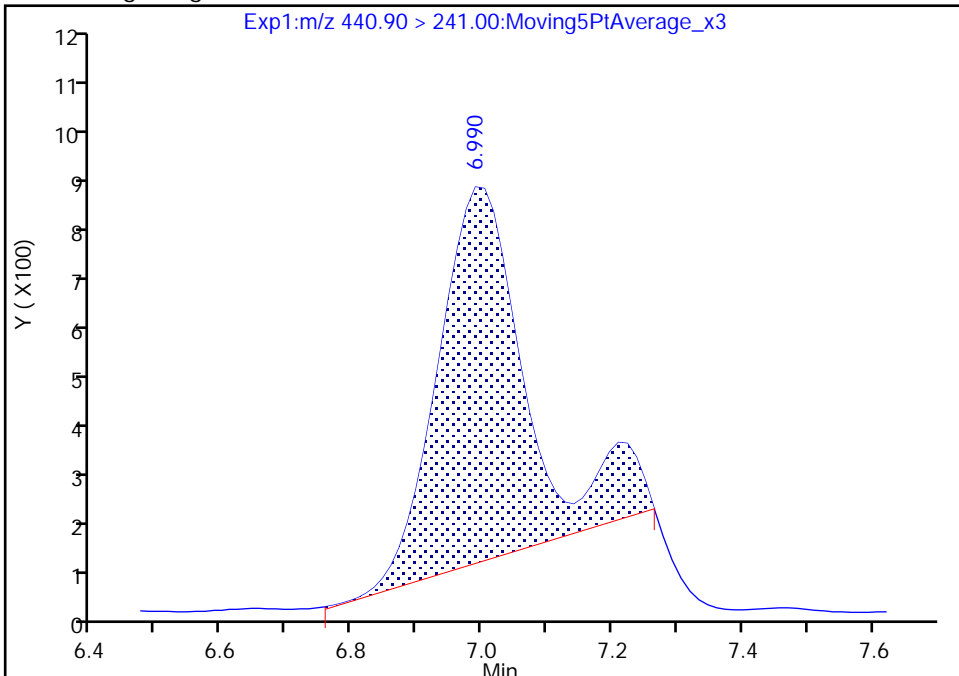
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Injection Date:	10-Jan-2021 05:52:18	Instrument ID:	A7_N
Lims ID:	320-68542-A-1-A	Lab Sample ID:	320-68542-1
Client ID:	SEEP-C-INFLUENT-24-123120		
Operator ID:	abservice	ALS Bottle#:	39
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector:	EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

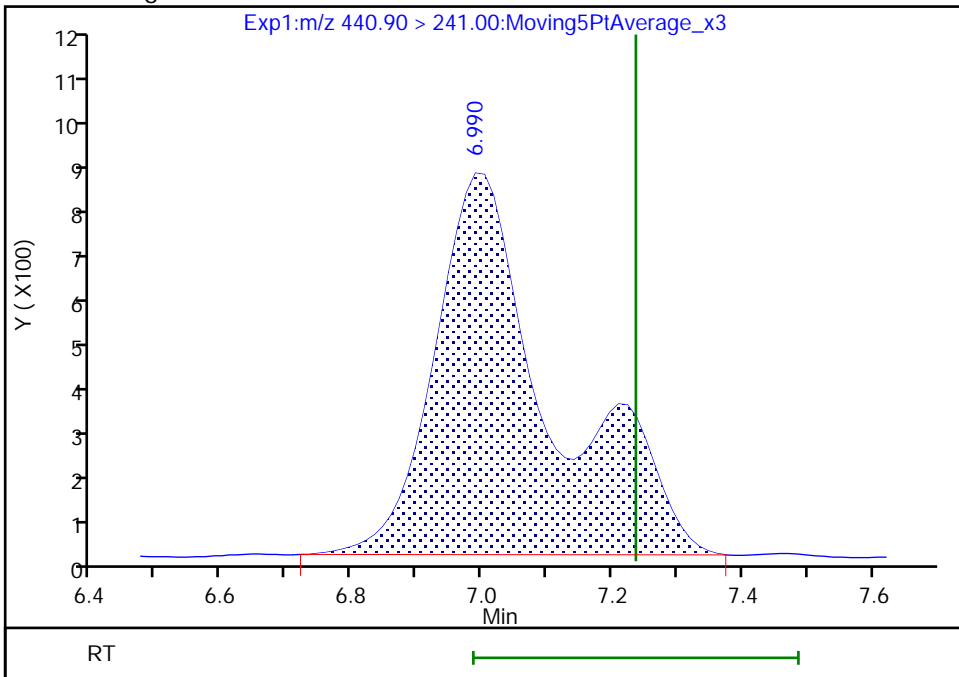
RT: 6.99  
 Area: 7101  
 Amount: 0.002781  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.99  
 Area: 10513  
 Amount: 0.004117  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:56:17  
 Audit Action: Manually Integrated

Audit Reason: Baseline  
 Page 105 of 331

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-EFFLUENT-24-123120 Lab Sample ID: 320-68542-2  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_042.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/31/2020 13:00  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 0.025 (mL) Date Analyzed: 01/10/2021 06:45  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.017		0.017	
13252-13-6	HFPO-DA	<0.081		0.081	
773804-62-9	Hydro-EVE Acid	<0.014		0.014	
2416366-19-1	Hydrolyzed PSDA	<0.038	*1	0.038	
749836-20-2	Hydro-PS Acid	<0.0061		0.0061	
1132933-86-8	NVHOS	<0.015		0.015	
267239-61-2	PEPA	<0.016		0.016	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	<0.080		0.080	
39492-88-1	PFO2HxA	0.13		0.027	
39492-89-2	PFO3OA	<0.039		0.039	
39492-90-5	PFO4DA	<0.059		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	<0.62		0.62	
29311-67-9	PS Acid	0.074		0.020	
2416366-22-6	R-EVE	<0.072		0.072	
2416366-18-0	R-PSDA	<0.071	*1	0.071	
2416366-21-5	R-PSDCA	<0.017		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_042.d  
 Lims ID: 320-68542-A-2-A  
 Client ID: SEEP-C-EFFLUENT-24-123120  
 Sample Type: Client  
 Inject. Date: 10-Jan-2021 06:45:02 ALS Bottle#: 42 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-2-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:57:32 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

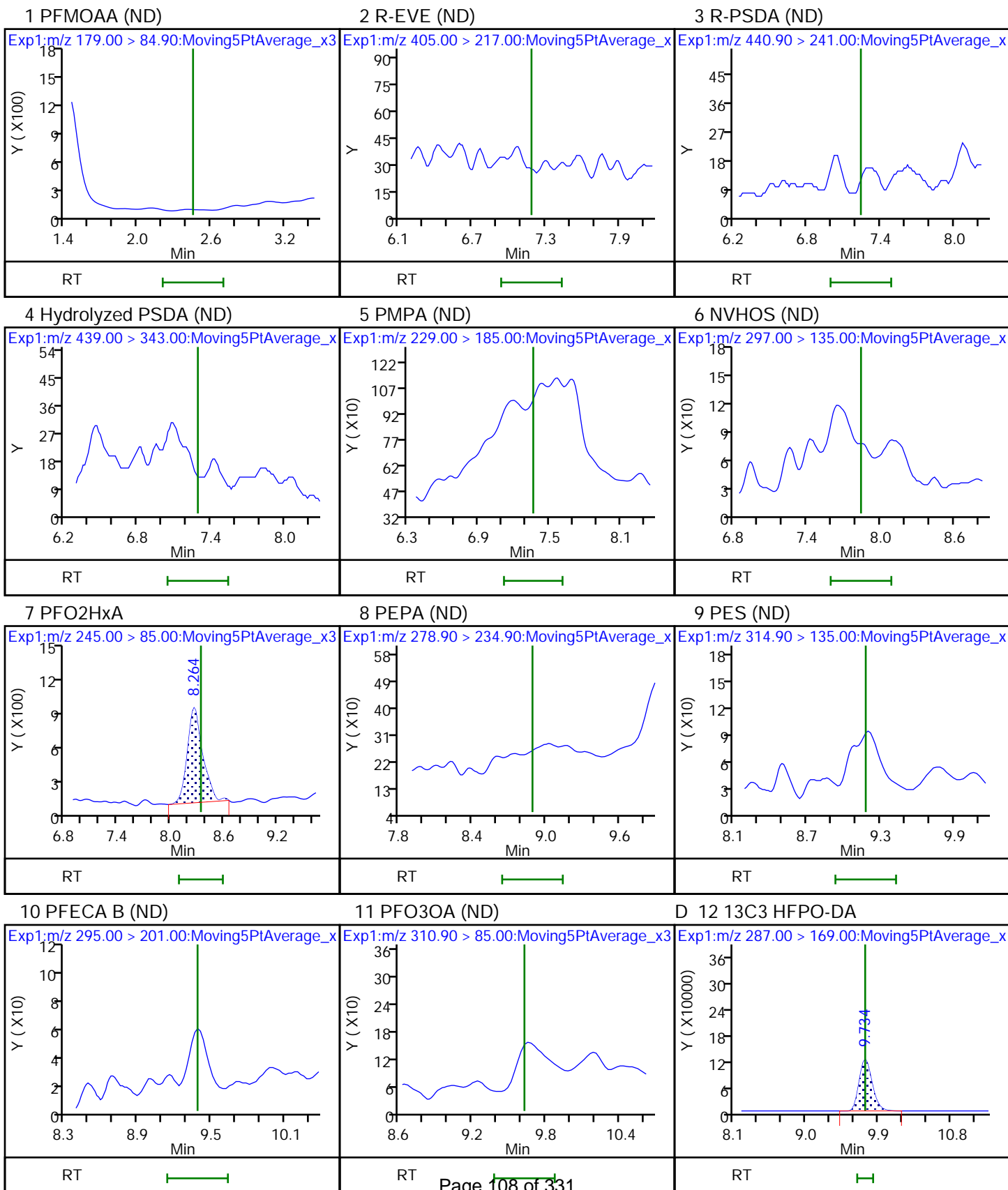
First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:57:46  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
7 PFO2HxA	245.00 > 85.00	8.264	8.342	-0.078	9655	0.000662		88.8		
D 12 13C3 HFPO-DA	287.00 > 169.00	9.734	9.734	0.0	1347618	0.2734		109	39720	
21 PS Acid	443.00 > 146.90	10.487	10.462	0.025	6085	0.000368			211	

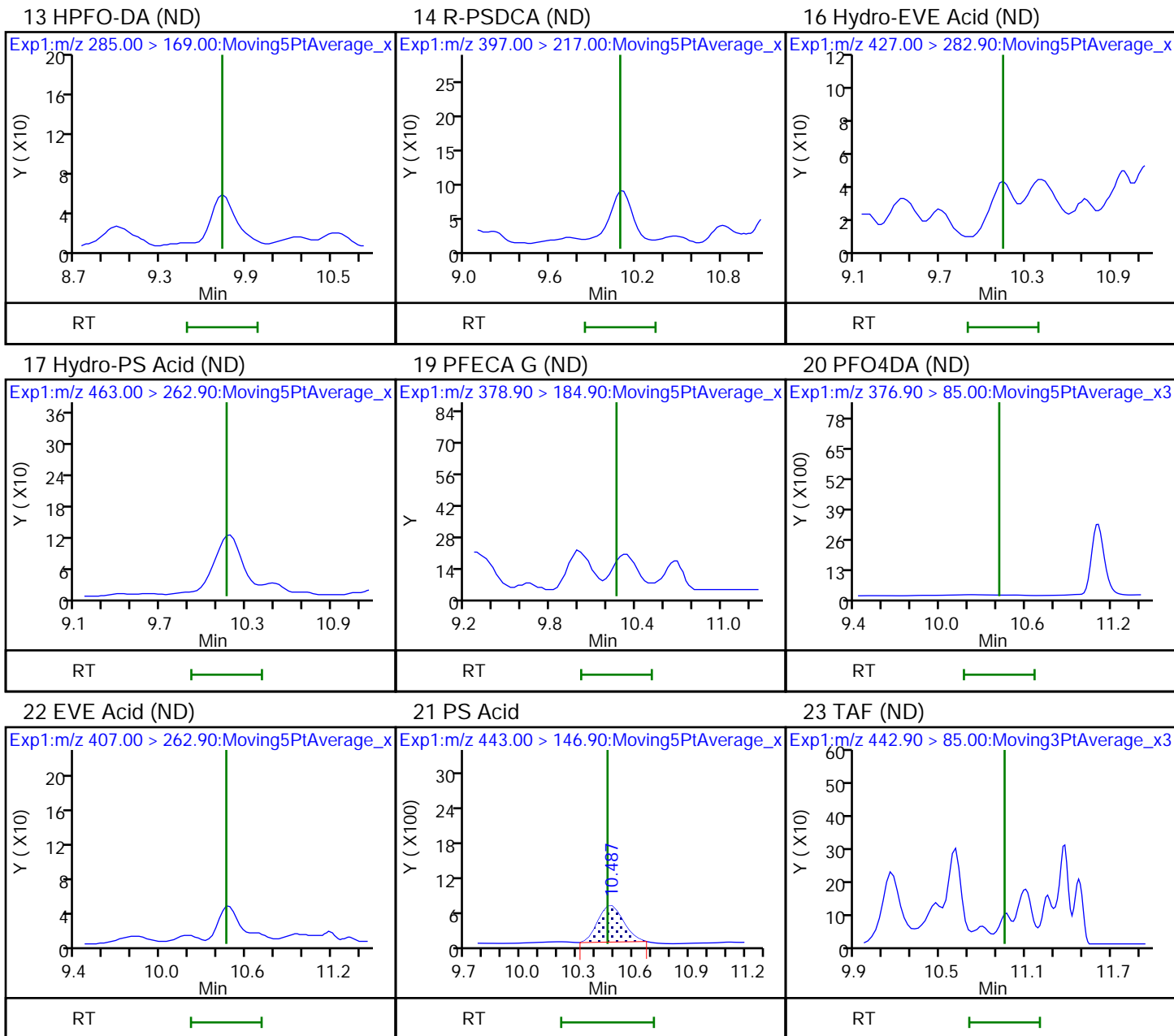
**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_042.d  
Injection Date: 10-Jan-2021 06:45:02 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-A Lab Sample ID: 320-68542-2  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 42 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

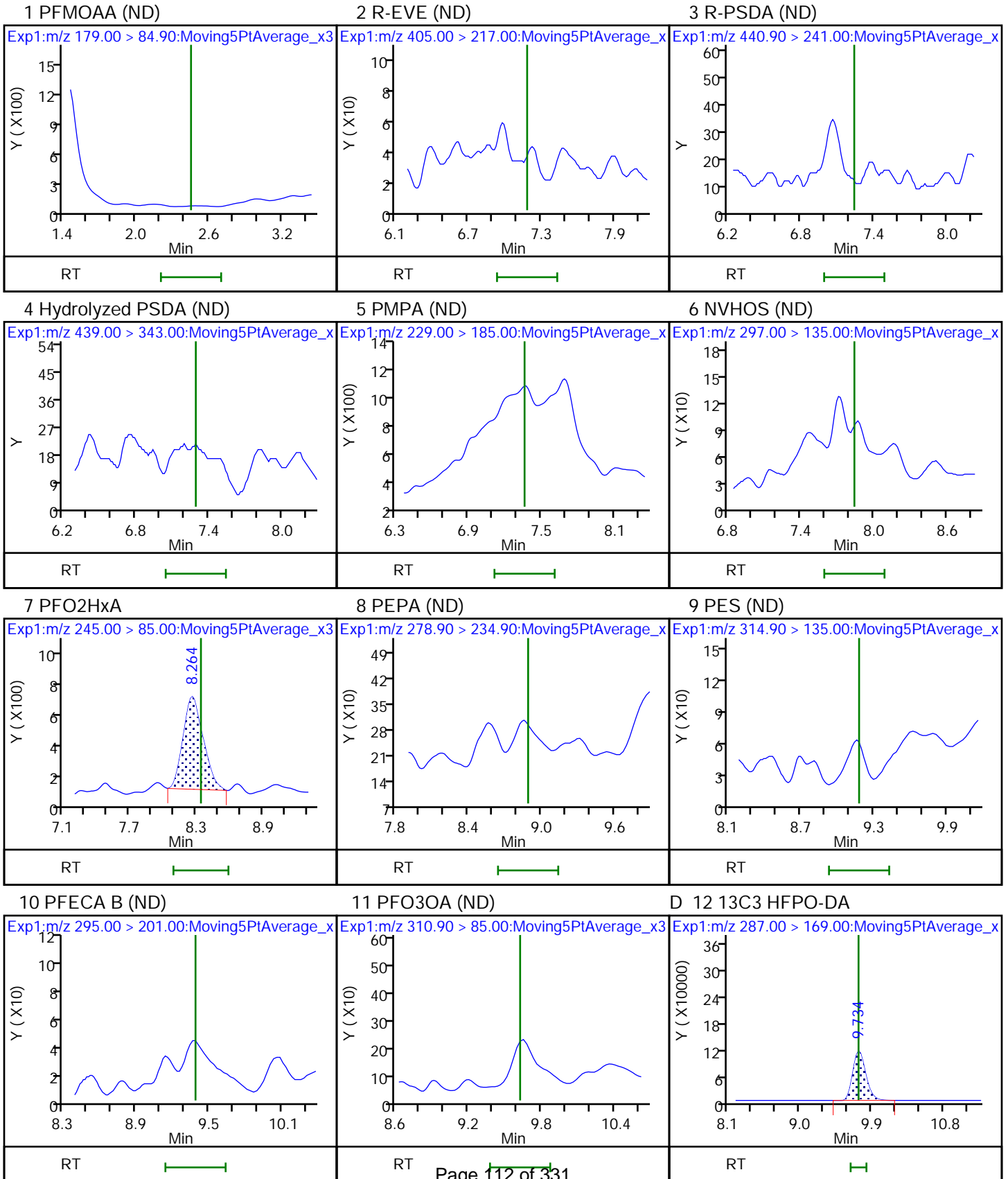
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_040.d  
 Lims ID: 320-68542-A-3-A  
 Client ID: SEEP-C-EFFLUENT-24-123120-D  
 Sample Type: Client  
 Inject. Date: 10-Jan-2021 06:09:52 ALS Bottle#: 40 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-3-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:56:48 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

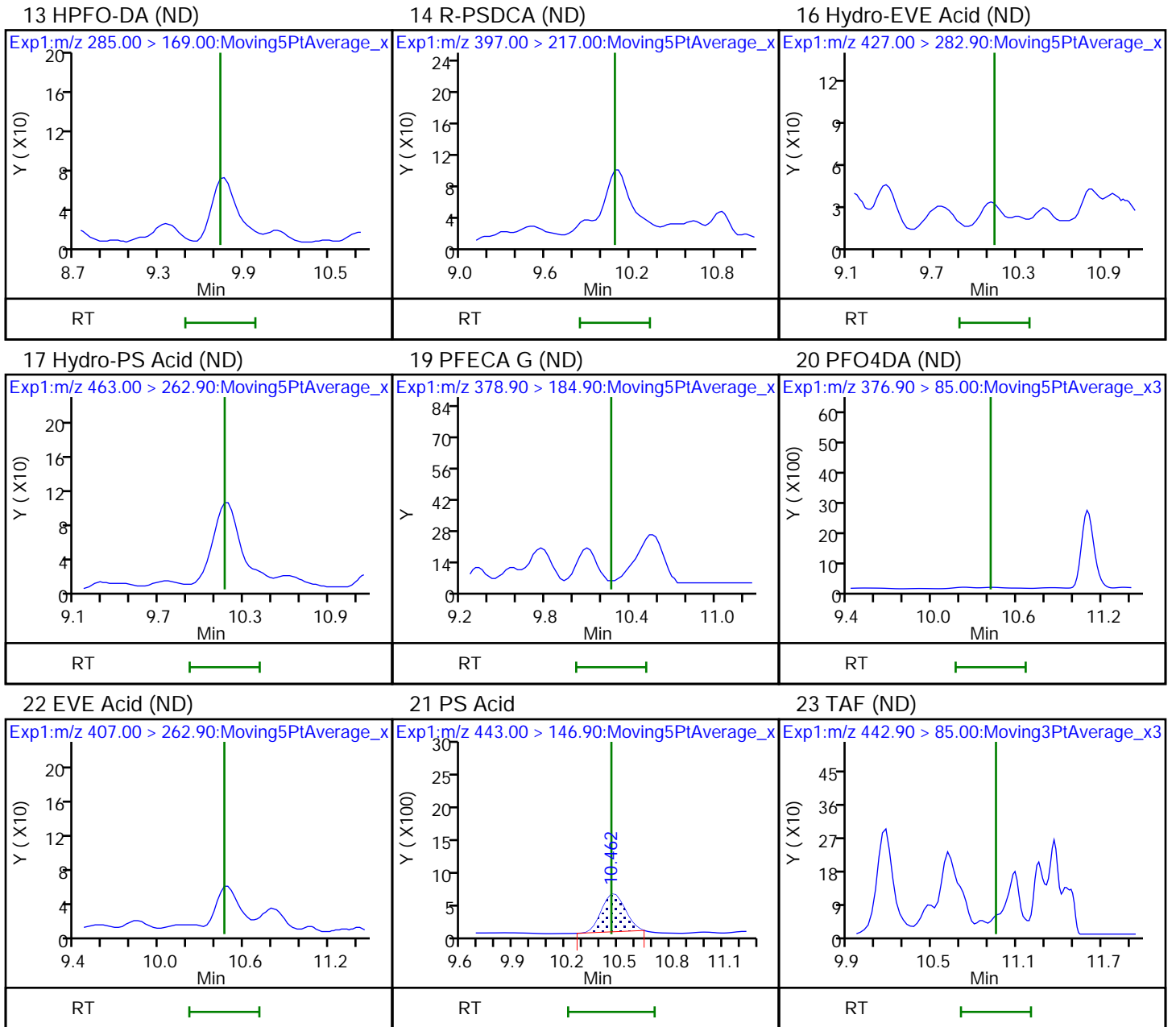
First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:57:05  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
7 PFO2HxA	245.00 > 85.00	8.264	8.342	-0.078	7273	0.000498			63.8	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.734	9.734	0.0	1289541	0.2616		105	37997	
21 PS Acid	443.00 > 146.90	10.462	10.462	0.0	5427	0.000328			192	

**QC Flag Legend**  
Processing Flags

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_040.d  
Injection Date: 10-Jan-2021 06:09:52 Instrument ID: A7\_N  
Lims ID: 320-68542-A-3-A Lab Sample ID: 320-68542-3  
Client ID: SEEP-C-EFFLUENT-24-123120-D  
Operator ID: abservice ALS Bottle#: 40 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-123120 Lab Sample ID: 320-68542-4  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_041.d  
 Analysis Method: Chemours (TB3+) Date Collected: 12/31/2020 13:30  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/10/2021 06:27  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020	*1	0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020	*1	0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_041.d  
 Lims ID: 320-68542-A-4-A  
 Client ID: SEEP-C-FBLK-123120  
 Sample Type: Client  
 Inject. Date: 10-Jan-2021 06:27:28 ALS Bottle#: 41 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-4-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:57:32 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:57:32  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
7 PFO2HxA										M
245.00 > 85.00	8.186	8.342	-0.156		6865	0.000470			38.4	M
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.750	9.734	0.016		1232007	0.2500		100.0	33693	
21 PS Acid										
443.00 > 146.90	10.476	10.462	0.014		5111	0.000309			180	

**QC Flag Legend**

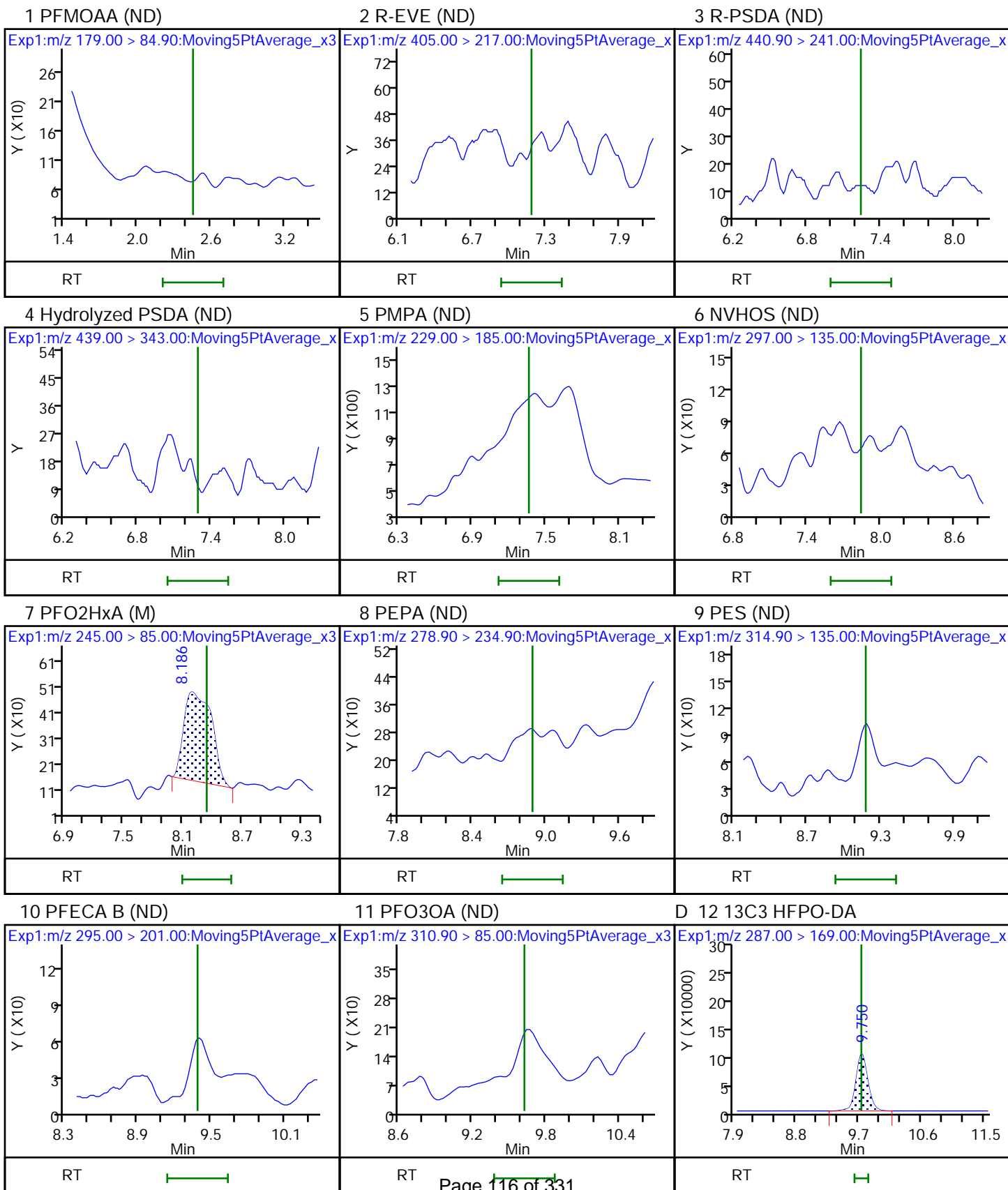
Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_041.d  
Injection Date: 10-Jan-2021 06:27:28 Instrument ID: A7\_N  
Lims ID: 320-68542-A-4-A Lab Sample ID: 320-68542-4  
Client ID: SEEP-C-FBLK-123120  
Operator ID: abservice ALS Bottle#: 41 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL

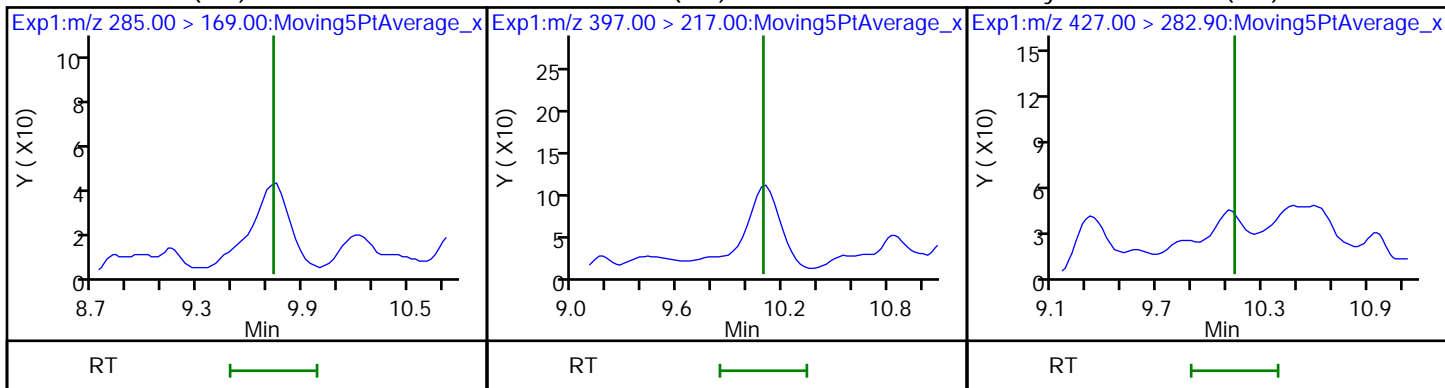




13 HPFO-DA (ND)

14 R-PSDCA (ND)

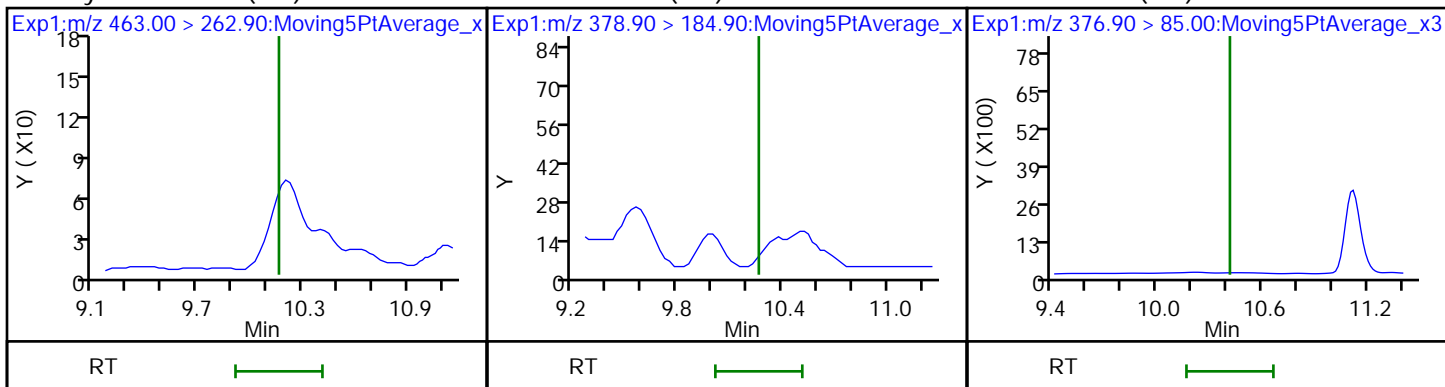
16 Hydro-EVE Acid (ND)



17 Hydro-PS Acid (ND)

19 PFECA G (ND)

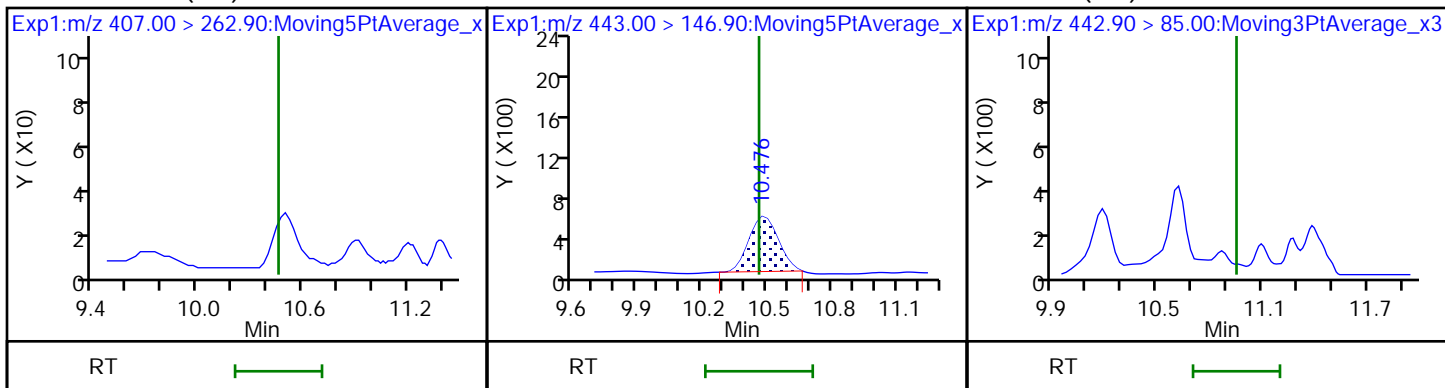
20 PFO4DA (ND)



22 EVE Acid (ND)

21 PS Acid

23 TAF (ND)



Eurofins TestAmerica, Sacramento

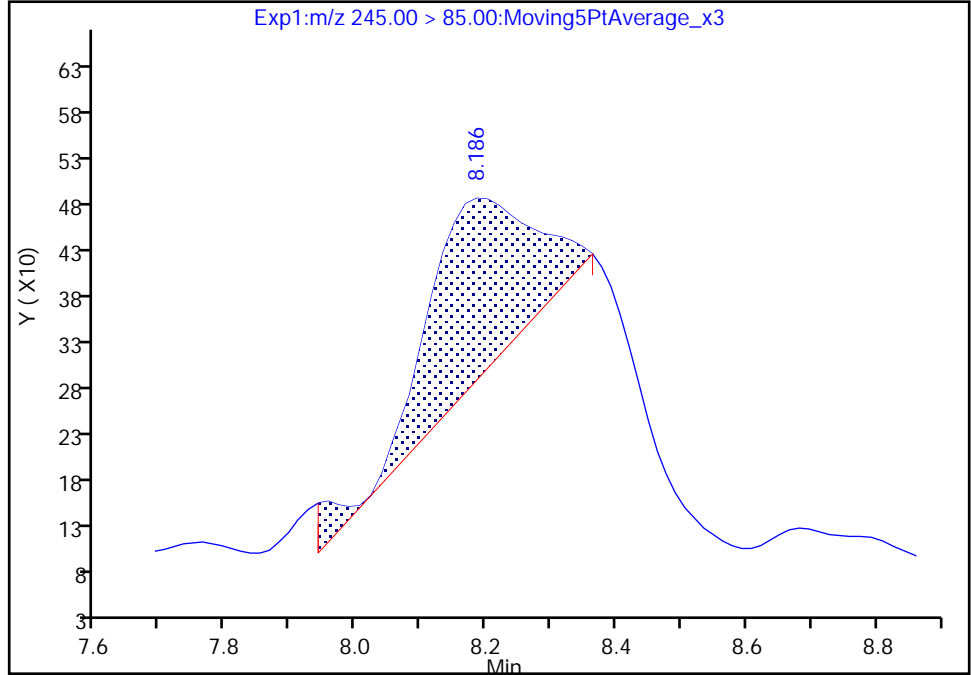
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_041.d  
Injection Date: 10-Jan-2021 06:27:28 Instrument ID: A7\_N  
Lims ID: 320-68542-A-4-A Lab Sample ID: 320-68542-4  
Client ID: SEEP-C-FBLK-123120  
Operator ID: abservice ALS Bottle#: 41 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

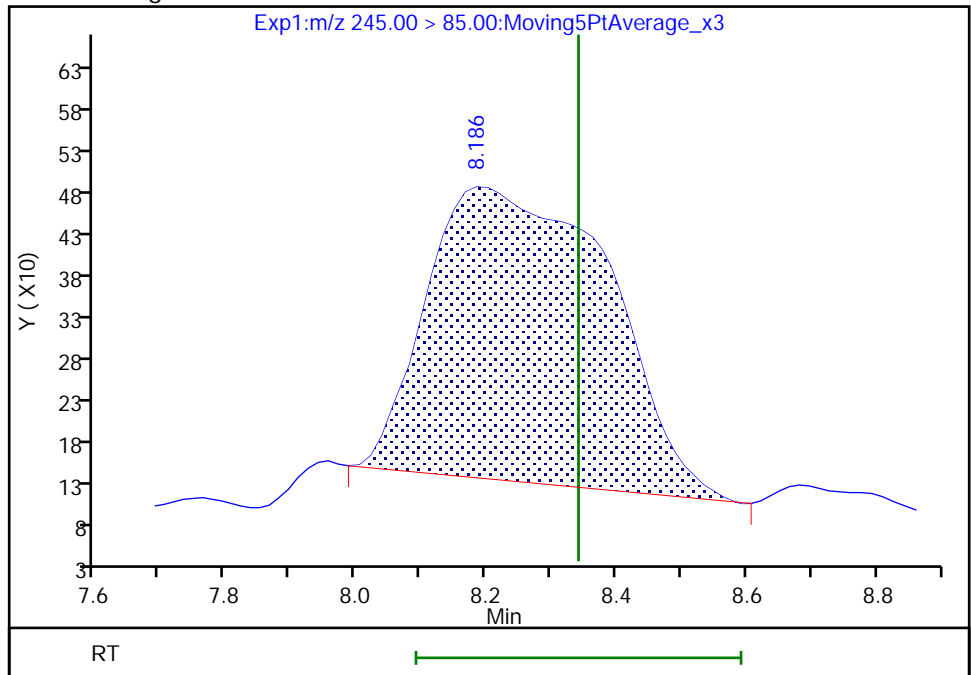
RT: 8.19  
Area: 2250  
Amount: 0.000154  
Amount Units: ng/ml

Processing Integration Results



RT: 8.19  
Area: 6865  
Amount: 0.000470  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:57:19

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	3.330	2.820	2.715	2.785	2.803	2.680	2.785	2.855	++++	2.715	2.535 - 3.035	2.832
R-EVE	6.872	6.669	6.622	6.657	6.657	6.599	6.657	6.695	++++	++++	6.407 - 6.907	6.679
R-PSDA	6.948	6.758	6.720	6.758	6.758	6.695	6.746	6.784	++++	6.708	6.496 - 6.996	6.764
Hydrolyzed PSDA	7.031	6.872	6.821	6.859	6.860	6.809	6.860	6.885	++++	++++	6.610 - 7.110	6.875
PMPA	++++	6.885	6.872	6.885	6.898	6.847	6.885	6.911	++++	6.873	6.635 - 7.135	6.882
NVHOS	7.580	7.470	7.457	7.470	7.471	7.443	7.457	7.471	++++	7.444	7.207 - 7.707	7.474
PFO2HxA	8.161	8.098	8.092	8.092	8.092	8.075	8.094	8.100	++++	8.078	7.844 - 8.344	8.098
PEPA	8.787	8.757	8.753	8.744	8.753	8.737	8.739	8.750	++++	8.745	8.489 - 8.989	8.752
PES	9.081	9.066	9.061	9.071	9.062	9.042	9.044	9.040	++++	++++	8.794 - 9.294	9.058
PFECA B	9.296	9.281	9.276	9.286	9.276	9.276	9.279	9.273	++++	9.249	9.029 - 9.529	9.277
PFO3OA	9.541	9.520	9.541	9.531	9.514	9.513	9.516	9.511	++++	9.506	9.266 - 9.766	9.521
HFPO-DA	9.651	9.630	9.624	9.641	9.624	9.624	9.627	9.621	++++	9.616	9.377 - 9.877	9.629
R-PSDCA	9.982	9.989	9.982	10.000	9.982	9.982	9.957	9.980	++++	++++	9.707 - 10.207	9.982
Perfluoroheptanoic acid	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	10.002	9.763 - 10.263	10.031
Hydro-EVE Acid	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	++++	9.763 - 10.263	10.035
Hydro-PS Acid	10.065	10.072	10.065	10.081	10.066	10.065	10.042	10.062	++++	10.031	9.792 - 10.292	10.061
PFECA G	10.166	10.171	10.166	10.155	10.166	10.166	10.145	10.140	++++	++++	9.895 - 10.395	10.159
PFO4DA	10.315	10.295	10.315	10.304	10.290	10.290	10.269	10.298	++++	10.287	10.019 - 10.519	10.296
PS Acid	10.365	10.370	10.364	10.378	10.365	10.364	10.344	10.373	++++	10.344	10.094 - 10.594	10.363
EVE Acid	10.365	10.370	10.364	10.378	10.365	10.364	10.344	10.373	++++	++++	10.094 - 10.594	10.365
PFO5DA	10.850	10.874	10.850	10.863	10.855	10.858	10.847	10.857	++++	++++	10.597 - 11.097	10.857
13C3 HFPO-DA	9.624	9.630	9.624	9.641	9.624	9.624	9.599	9.621	++++	9.616	9.499 - 9.699	9.623
13C4 PFHpA	10.039	10.046	10.039	10.028	10.039	10.039	10.013	10.036	++++	10.002	9.913 - 10.113	10.031

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	15572000 11475680 ++++ 11572493	12325600 12420280 ++++ 11572493	12465200 11708910	11818300 11850320	Ave		12356531.4			10.2		50.0				
R-EVE	5033000 5197080 ++++	4671600 5436780 ++++	4740400 5134870	4847000 5138716	Ave		5024930.75			5.1		50.0				
R-PSDA	2507000 2465680 ++++	2344000 2734600 2882265	2364200 2637430	2406200 2640972	Ave		2553594.11			7.2		50.0				
Hydrolyzed PSDA	10806000 11438320 ++++	10949200 12361600 ++++	10822600 12007810	10918200 11775652	Ave		11384922.8			5.3		50.0				
PMPA	++++ 11300240 ++++	12650800 11993800 11757457	10446200 11371980	10992400 11402812	Ave		11489461.1			5.8		50.0				
NVHOS	15983000 16010680 ++++	16111600 16968560 15902147	14905000 16423100	15441900 16331924	Ave		16008656.8			3.7		50.0				
PFO2HxA	15170000 14763400 ++++	14973200 15208500 14299772	13660000 14217070	14261000 14783428	Ave		14592930.0			3.5		50.0				
PEPA	9844000 9517840 ++++	9332400 10050340 9581725	9225800 9599260	9172200 9170048	Ave		9499290.33			3.2		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	88499000 87859480 ++++	91227600 92658160 ++++	84816400 88644720	85989100 82689636	Ave		87798012.0			3.7		50.0				
PFECA B	10402000 11236120 ++++	10674800 11421120 10196243	9401800 10935480	11003800 10771912	Ave		10671475.0			5.7		50.0				
PFO3OA	12596000 11325000 ++++	12370800 13459600 11031957	12303600 11790780	12113400 12669552	Ave		12184521.0			6.0		50.0				
R-PSDCA	106019000 116172760 ++++	108852800 115800860 ++++	105847800 110286160	105889800 87246736	Ave		107014490			8.4		50.0				
Hydro-EVE Acid	59929000 56860120 ++++	57760800 61858080 ++++	53283200 58974260	55250100 54965908	Ave		57360183.5			5.0		50.0				
Hydro-PS Acid	34522000 35811000 ++++	37266000 37270380 30040413	35099200 36917420	36960200 37599700	Ave		35720701.4			6.7		50.0				
PFECA G	27058000 26816440 ++++	24112400 25289640 ++++	27057200 24575170	25326700 22043916	Ave		25284933.3			6.9		50.0				
PFO4DA	9462000 13751920 ++++	16191600 15886960 12159262	14528200 13079020	13774900 12346940	Ave		13464533.6			15.3		50.0				
PS Acid	16387000 16283760 ++++	18195200 17858040 12275588	17644800 15578360	17779400 16751176	Ave		16528147.1			11.0		50.0				
EVE Acid	53143000 56436280 ++++	54499600 58945840 ++++	55317600 54333770	58990300 47640104	Ave		54913311.8			6.6		50.0				
PFO5DA	3214000 3779560 ++++	3584400 3311160 ++++	4600800 3491510	3338600 3343720	Ave		3582968.75			12.5		50.0				
13C3 HFPO-DA	4985264 4983720 ++++	4989472 5092868 4612708	5150312 4765288	4899344 4881772	Ave		4928972.00			3.3		50.0				
13C4 PFHpA	24302212 23636128 ++++	21609884 22867568 19012996	23373716 22560980	24555608 22649104	Ave		22729799.6			7.3		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	0.9867 1.1885	1.3145 1.1625	1.0476 1.1626	1.1387 +++++	1.1450 1.0879	AveID		1.1371			8.1		35.0				
Perfluoroheptanoic acid	1.5371 1.1218	1.3278 0.9705	1.1407 0.9876	1.0131 +++++	1.0721 0.8560	L2ID	0.0006	0.9997			8.5			0.9920		0.9900	

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	15572	30814	62326	118183	286892	0.00100	0.00250	0.00500	0.0100	0.0250
		621014	1170891	2962580	+++++	11572493	0.0500	0.100	0.250	+++++	1.00
R-EVE	Ave	5033	11679	23702	48470	129927	0.00100	0.00250	0.00500	0.0100	0.0250
		271839	513487	1284679	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
R-PSDA	Ave	2507	5860	11821	24062	61642	0.00100	0.00250	0.00500	0.0100	0.0250
		136730	263743	660243	+++++	2882265	0.0500	0.100	0.250	+++++	1.00
Hydrolyzed PSDA	Ave	10806	27373	54113	109182	285958	0.00100	0.00250	0.00500	0.0100	0.0250
		618080	1200781	2943913	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PMPA	Ave	+++++	31627	52231	109924	282506	+++++	0.00250	0.00500	0.0100	0.0250
		599690	1137198	2850703	+++++	11757457	0.0500	0.100	0.250	+++++	1.00
NVHOS	Ave	15983	40279	74525	154419	400267	0.00100	0.00250	0.00500	0.0100	0.0250
		848428	1642310	4082981	+++++	15902147	0.0500	0.100	0.250	+++++	1.00
PFO2HxA	Ave	15170	37433	68300	142610	369085	0.00100	0.00250	0.00500	0.0100	0.0250
		760425	1421707	3695857	+++++	14299772	0.0500	0.100	0.250	+++++	1.00
PEPA	Ave	9844	23331	46129	91722	237946	0.00100	0.00250	0.00500	0.0100	0.0250
		502517	959926	2292512	+++++	9581725	0.0500	0.100	0.250	+++++	1.00
PES	Ave	88499	228069	424082	859891	2196487	0.00100	0.00250	0.00500	0.0100	0.0250
		4632908	8864472	20672409	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PFECA B	Ave	10402	26687	47009	110038	280903	0.00100	0.00250	0.00500	0.0100	0.0250
		571056	1093548	2692978	+++++	10196243	0.0500	0.100	0.250	+++++	1.00
PFO3OA	Ave	12596	30927	61518	121134	283125	0.00100	0.00250	0.00500	0.0100	0.0250
		672980	1179078	3167388	+++++	11031957	0.0500	0.100	0.250	+++++	1.00
R-PSDCA	Ave	106019	272132	529239	1058898	2904319	0.00100	0.00250	0.00500	0.0100	0.0250
		5790043	11028616	21811684	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydro-EVE Acid	Ave	59929	144402	266416	552501	1421503	0.00100	0.00250	0.00500	0.0100	0.0250
		3092904	5897426	13741477	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydro-PS Acid	Ave	34522	93165	175496	369602	895275	0.00100	0.00250	0.00500	0.0100	0.0250
		1863519	3691742	9399925	+++++	30040413	0.0500	0.100	0.250	+++++	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	27058 1264482	60281 2457517	135286 5510979	253267 +++++	670411 +++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 +++++	0.0250 +++++
PFO4DA	Ave	9462 794348	40479 1307902	72641 3086735	137749 +++++	343798 12159262	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 +++++	0.0250 1.00
PS Acid	Ave	16387 892902	45488 1557836	88224 4187794	177794 +++++	407094 12275588	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 +++++	0.0250 1.00
EVE Acid	Ave	53143 2947292	136249 5433377	276588 11910026	589903 +++++	1410907 +++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 +++++	0.0250 +++++
PFO5DA	Ave	3214 165558	8961 349151	23004 835930	33386 +++++	94489 +++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 +++++	0.0250 +++++
13C3 HFPO-DA	Ave	1246316 1273217	1247368 1191322	1287578 1220443	1224836 +++++	1245930 1153177	0.250 0.250	0.250 0.250	0.250 0.250	0.250 +++++	0.250 0.250
13C4 PFHpA	Ave	6075553 5716892	5402471 5640245	5843429 5662276	6138902 +++++	5909032 4753249	0.250 0.250	0.250 0.250	0.250 0.250	0.250 +++++	0.250 0.250

Curve Type Legend:

Ave = Average



FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1 Analy Batch No.: 442814

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/15/2020 20:11 Calibration End Date: 12/15/2020 23:07 Calibration ID: 53318

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-442814/2	2020.12.15_TB3_ICAL_004.d
Level 2	IC 320-442814/3	2020.12.15_TB3_ICAL_005.d
Level 3	IC 320-442814/4	2020.12.15_TB3_ICAL_006.d
Level 4	IC 320-442814/5	2020.12.15_TB3_ICAL_007.d
Level 5	IC 320-442814/6	2020.12.15_TB3_ICAL_008.d
Level 6	IC 320-442814/7	2020.12.15_TB3_ICAL_009.d
Level 7	IC 320-442814/8	2020.12.15_TB3_ICAL_010.d
Level 8	IC 320-442814/9	2020.12.15_TB3_ICAL_011.d
Level 9	IC 320-442814/11	2020.12.15_TB3_ICAL_013.d
Level 10	IC 320-442814/12	2020.12.15_TB3_ICAL_014.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	4919	16397	26977	55790	142656	0.00100	0.00250	0.00500	0.0100	0.0250
			302640	553958	1418910	+++++	5017951	0.0500	0.100	0.250	+++++	1.00
Perfluoroheptanoic acid		L2ID	37356	71734	133308	248784	633489	0.00100	0.00250	0.00500	0.0100	0.0250
			1282697	2189522	5592019	+++++	16274985	0.0500	0.100	0.250	+++++	1.00

Curve Type Legend:

AveID = Average isotope dilution  
 L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 15-Dec-2020 20:11:55 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (52  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:02:46 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 10:38:33

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.330	2.785	0.545		15572	0.001260		126	32.2	M
2 R-EVE										M
405.00 > 217.00	6.872	6.657	0.215		5033	0.001002		100	159	M
3 R-PSDA										M
440.90 > 241.00	6.948	6.746	0.202		2507	0.000982		98.2	96.3	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.031	6.860	0.171		10806	0.000949		94.9	323	M
5 PMPA										M
229.00 > 185.00	7.058	6.885	0.173		19682	0.001713		171	18.1	M
6 NVHOS										M
297.00 > 135.00	7.580	7.457	0.123		15983	0.000998		99.8	248	M
7 PFO2HxA										M
245.00 > 85.00	8.161	8.094	0.067		15170	0.001040		104	122	M
8 PEPA										M
278.90 > 234.90	8.787	8.739	0.048		9844	0.001036		104	54.5	M
9 PES										M
314.90 > 135.00	9.081	9.044	0.037		88499	0.001008		101	2063	M
10 PFECA B										M
295.00 > 201.00	9.296	9.279	0.017		10402	0.000975		97.5	378	M
11 PFO3OA										M
310.90 > 85.00	9.541	9.516	0.025		12596	0.001034		103	186	M
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1246316	0.2529		101	36563	M
13 HPFO-DA										M
285.00 > 169.00	9.651	9.627	0.025	1.003	4919	0.000868		86.8	147	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		106019	0.000991		99.1	3206	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		59929	0.001045		104	944	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	37356	0.000957	Target=0.00	95.7	693	
363.00 > 169.00	10.039	10.013	0.026	1.000	21222		1.76(0.00-0.00)	95.7	499	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		6075553	0.2673		107	186932	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		34522	0.000966		96.6	880	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		27058	0.001070		107	893	
20 PFO4DA										
376.90 > 85.00	10.315	10.269	0.046		9462	0.000703		70.3	95.3	
21 PS Acid										
443.00 > 146.90	10.365	10.344	0.020		16387	0.000991		99.1	549	
22 EVE Acid										
407.00 > 262.90	10.365	10.344	0.020		53143	0.000968		96.8	1744	
23 TAF										
442.90 > 85.00	10.850	10.847	0.003		3214	0.000897		89.7	11.1	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD1\_00052

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d

Injection Date: 15-Dec-2020 20:11:55

Instrument ID: A7\_N

Lims ID: IC STD 1

Client ID:

Operator ID: abservice

ALS Bottle#: 4

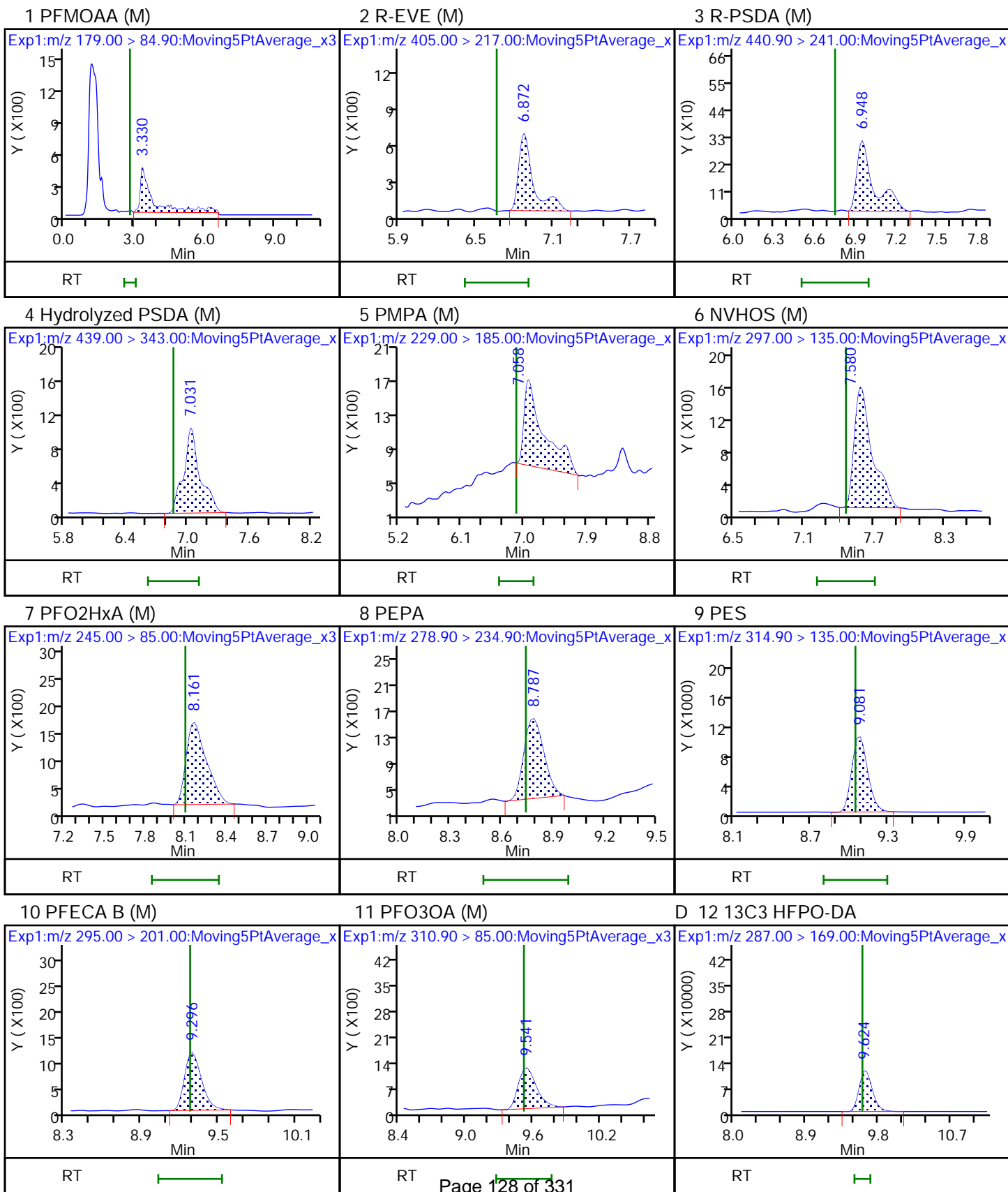
Worklist Smp#: 2

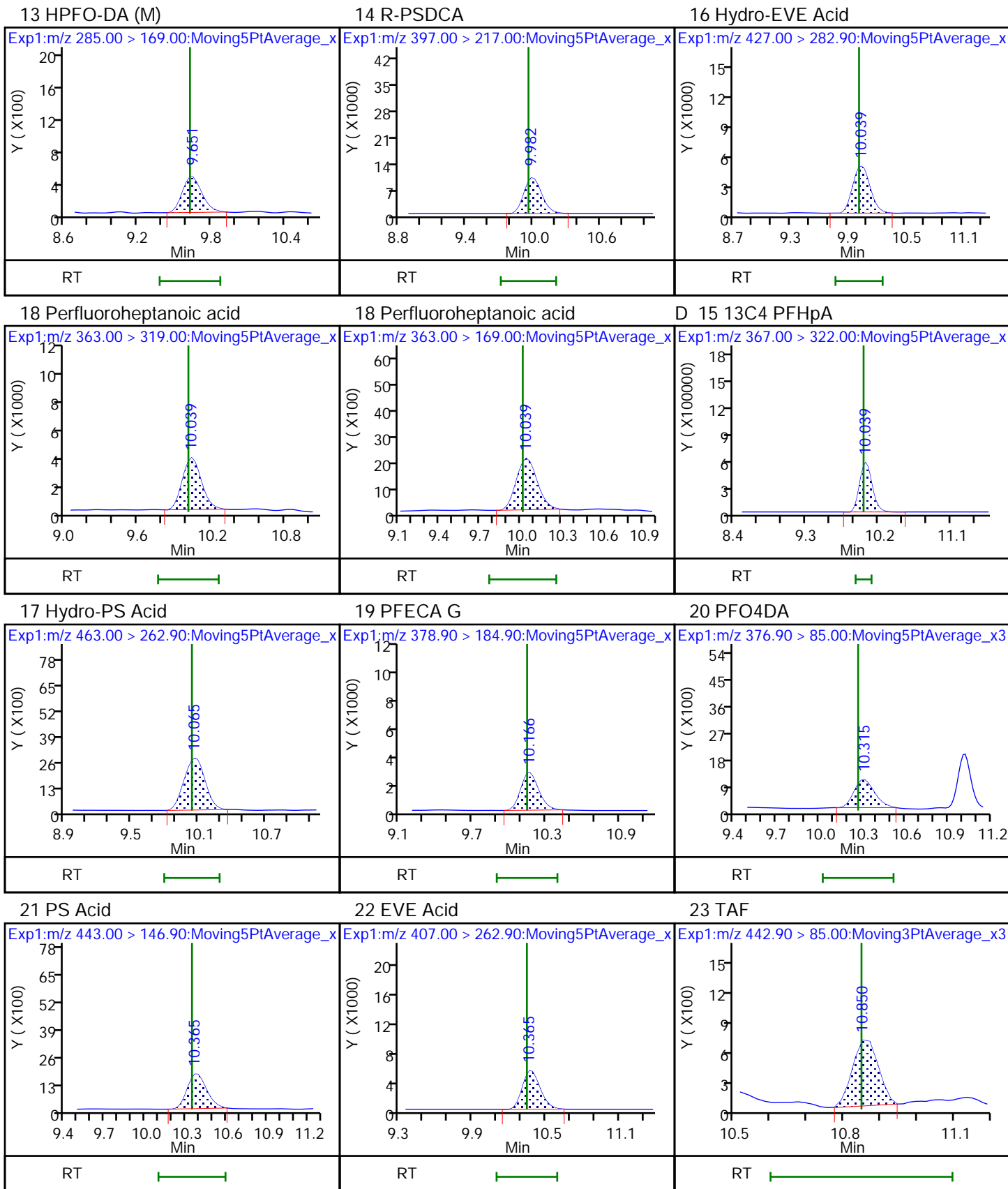
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

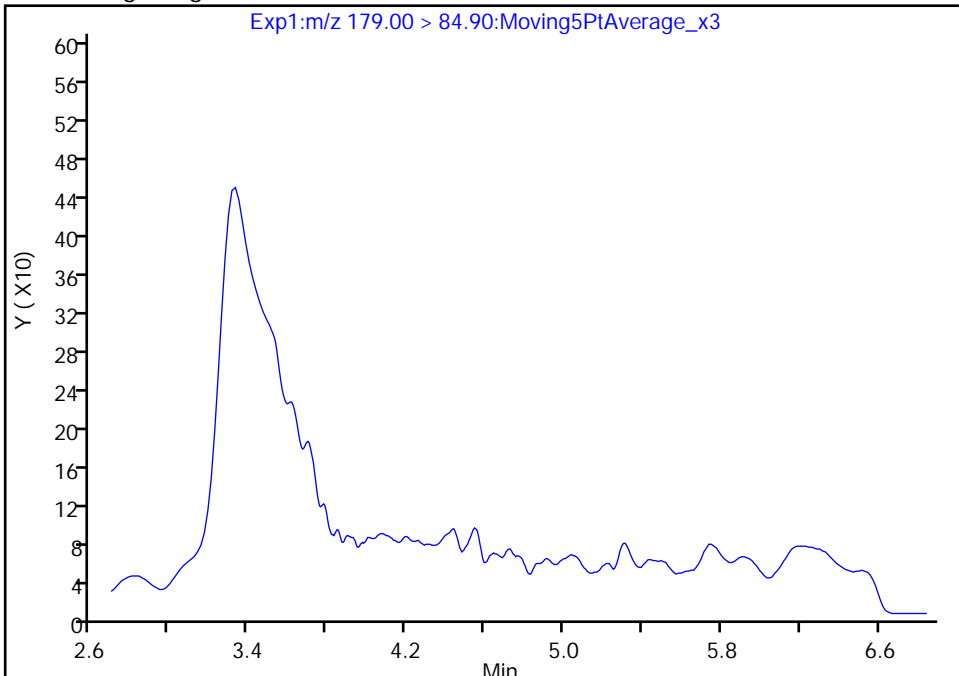
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

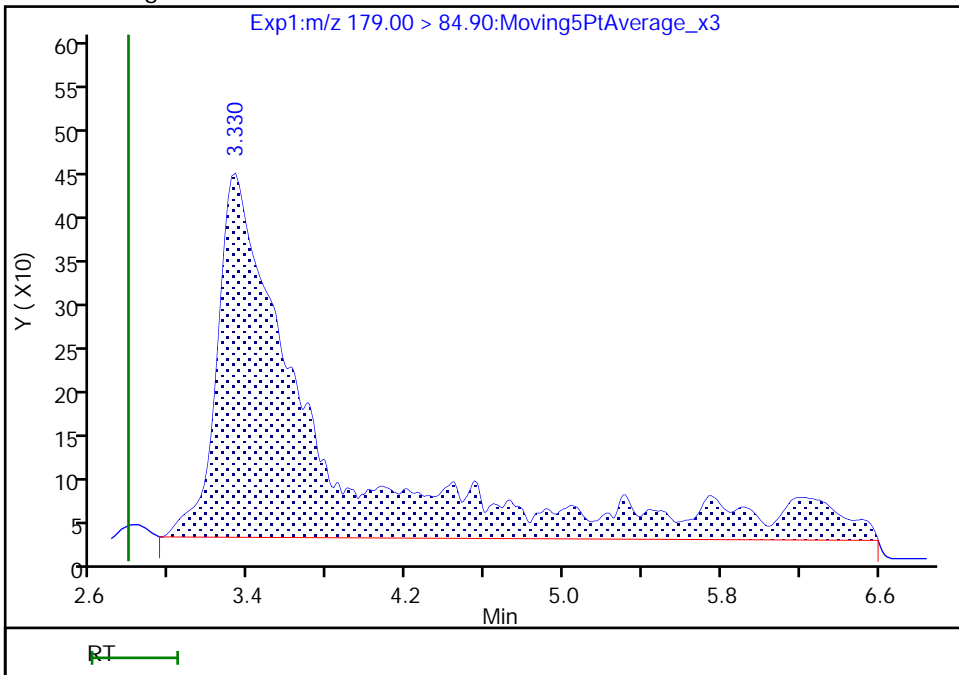
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 3.33  
Area: 15572  
Amount: 0.001260  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

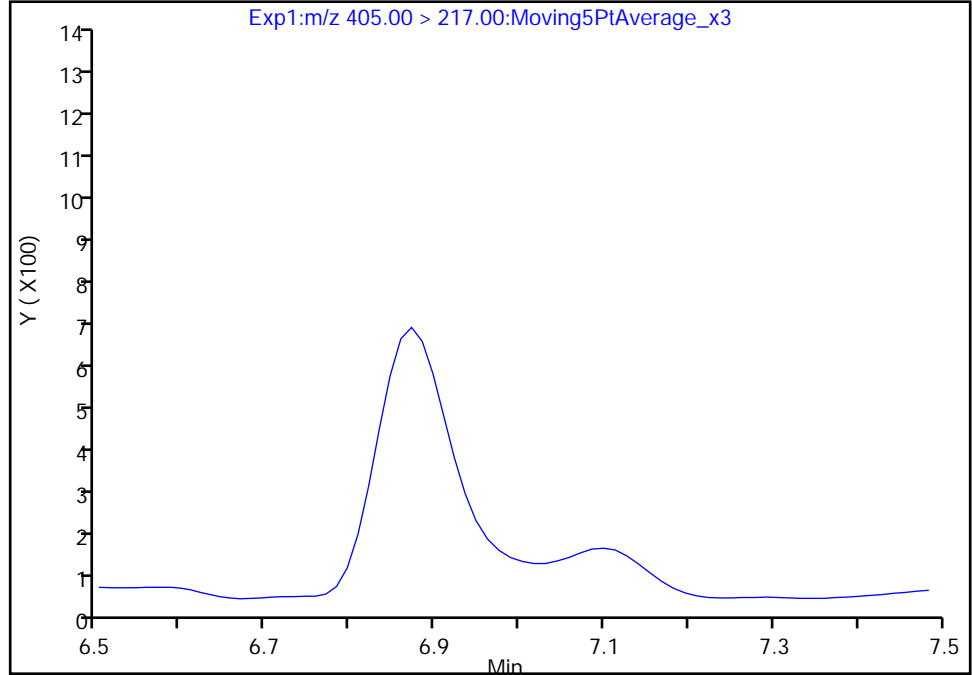
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

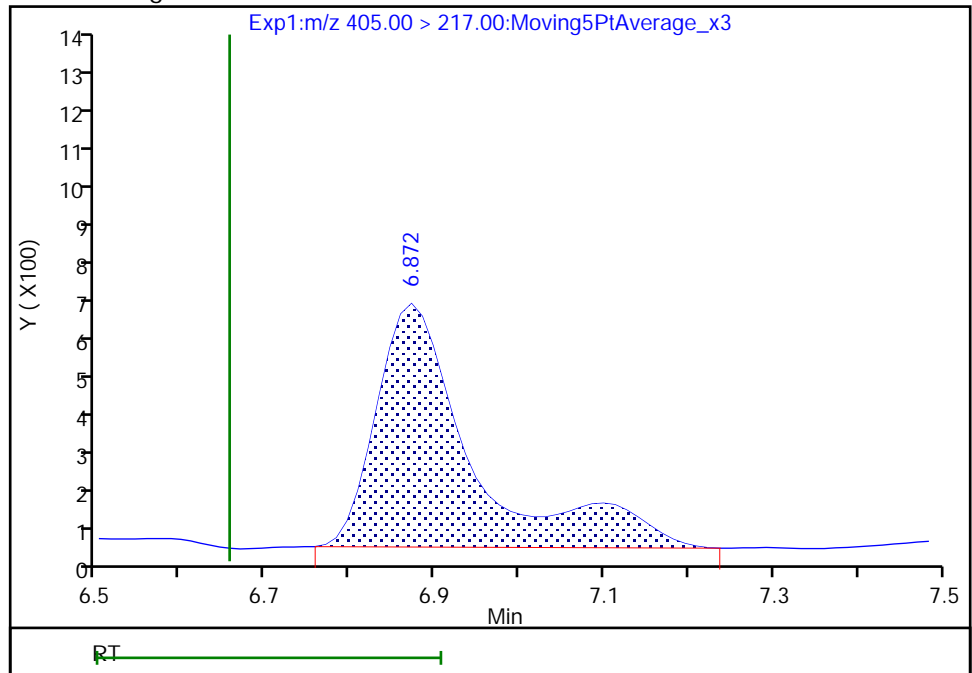
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 5033  
Amount: 0.001002  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:20:53  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

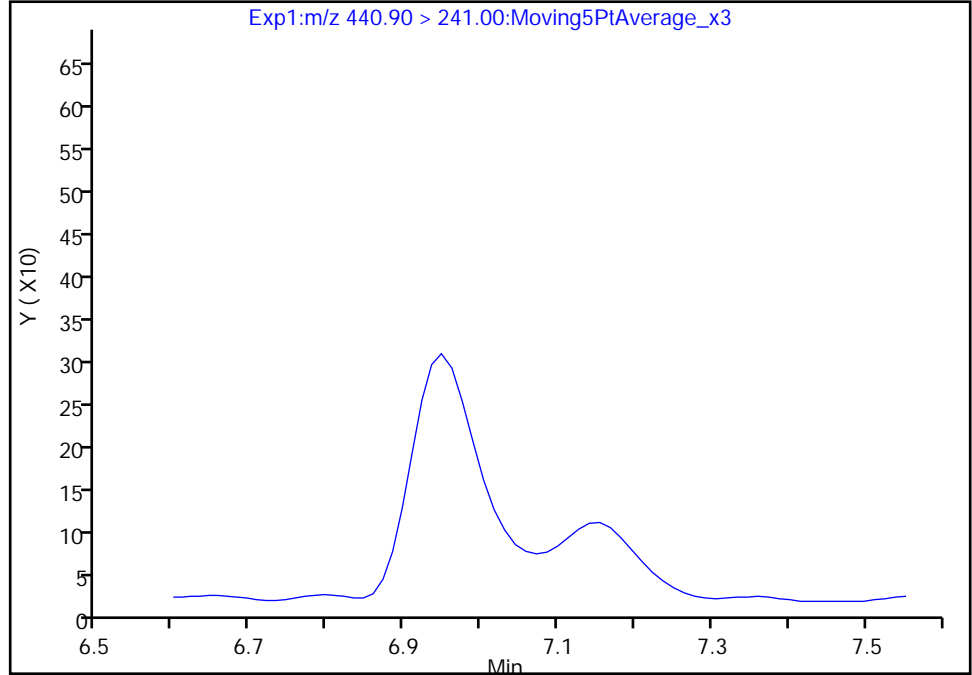
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

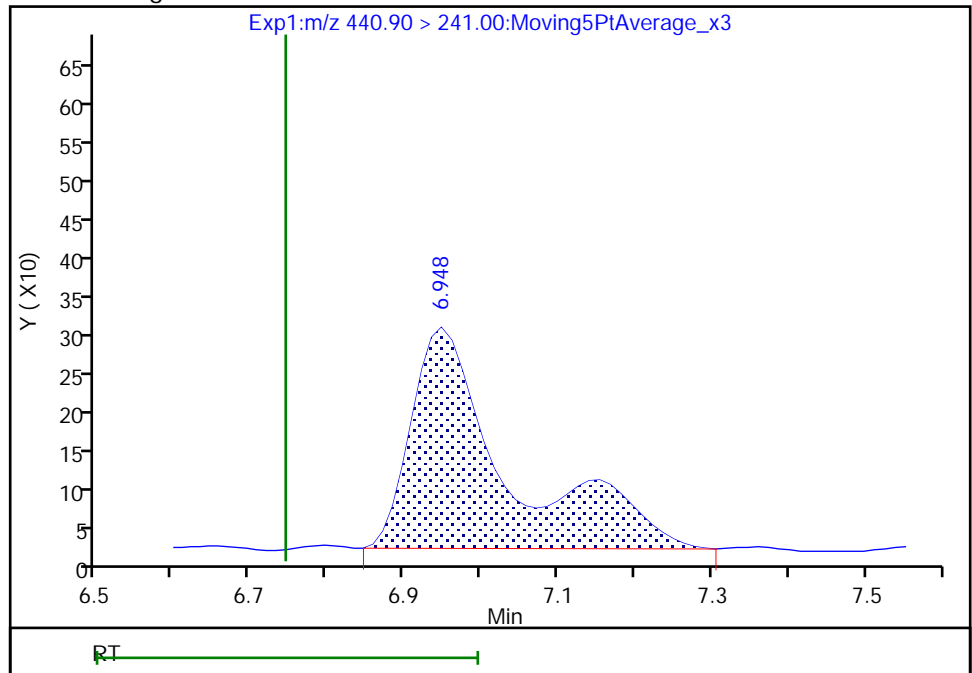
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.95  
Area: 2507  
Amount: 0.000982  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:21:02  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 133 of 331

Eurofins TestAmerica, Sacramento

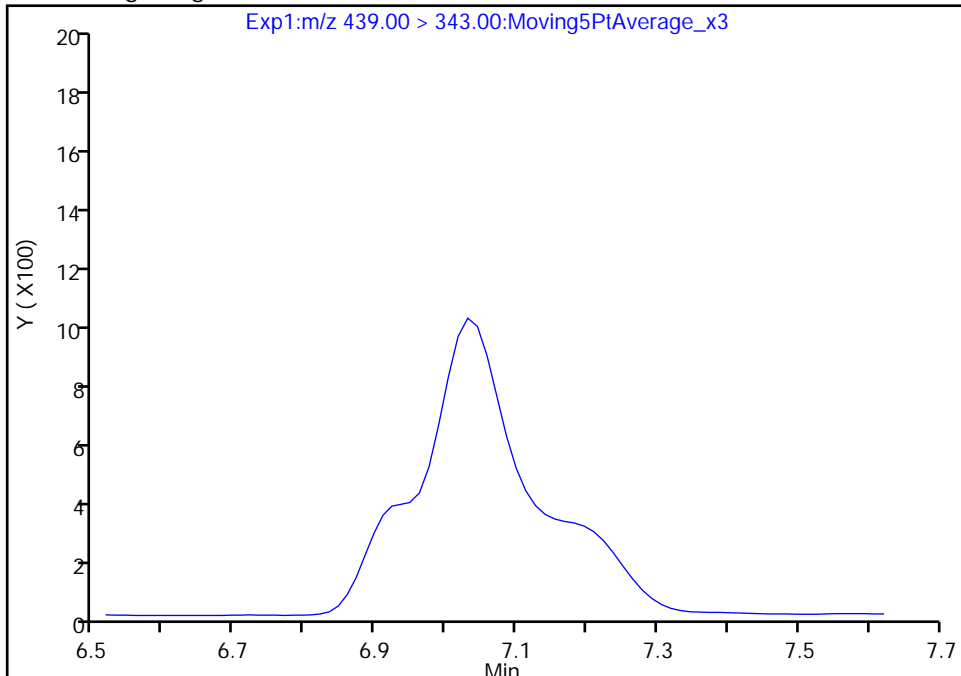
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Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

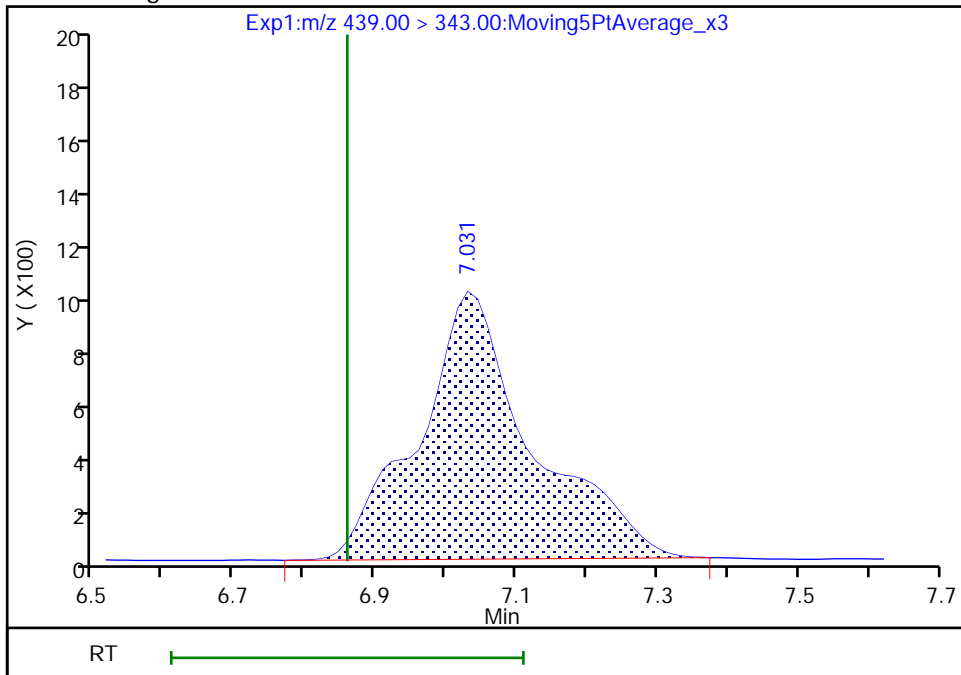
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 7.03  
Area: 10806  
Amount: 0.000949  
Amount Units: ng/ml



Euofins TestAmerica, Sacramento

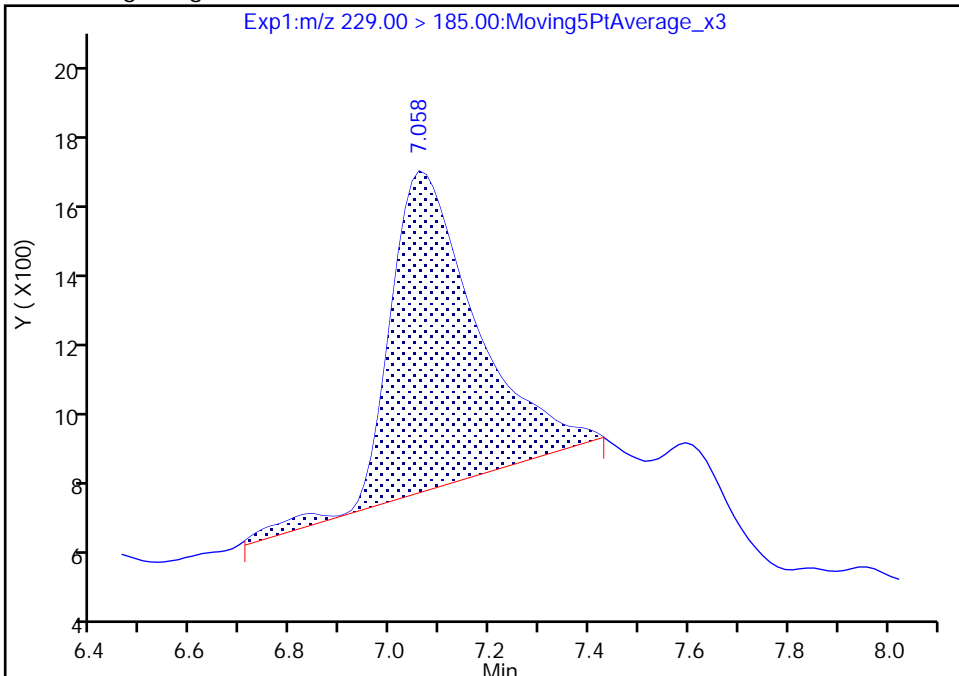
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

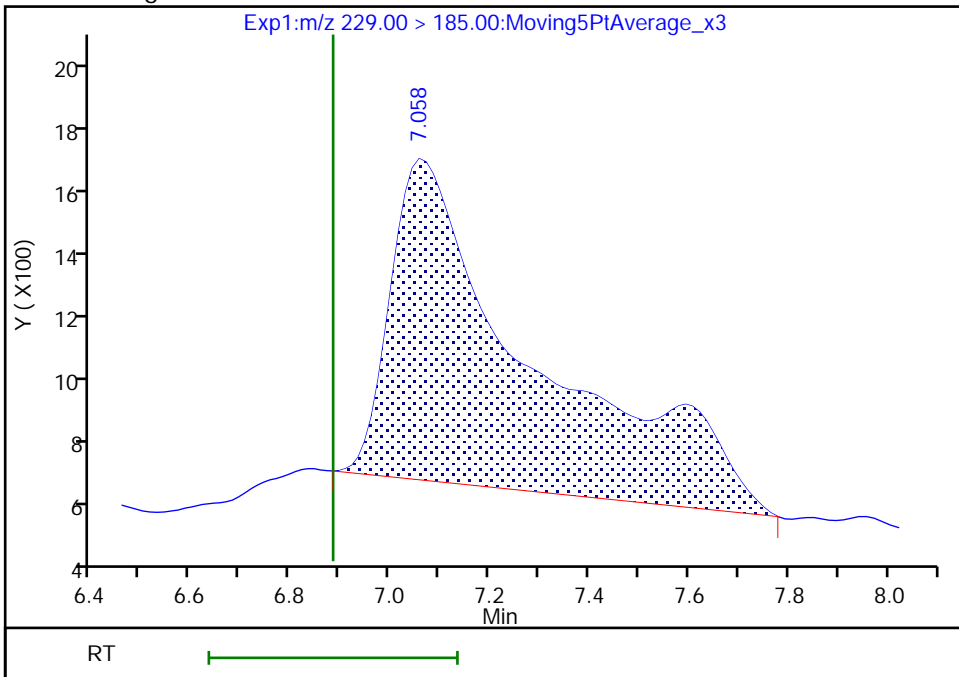
RT: 7.06  
Area: 10729  
Amount: 0.001190  
Amount Units: ng/ml

Processing Integration Results



RT: 7.06  
Area: 19682  
Amount: 0.001713  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 09:21:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

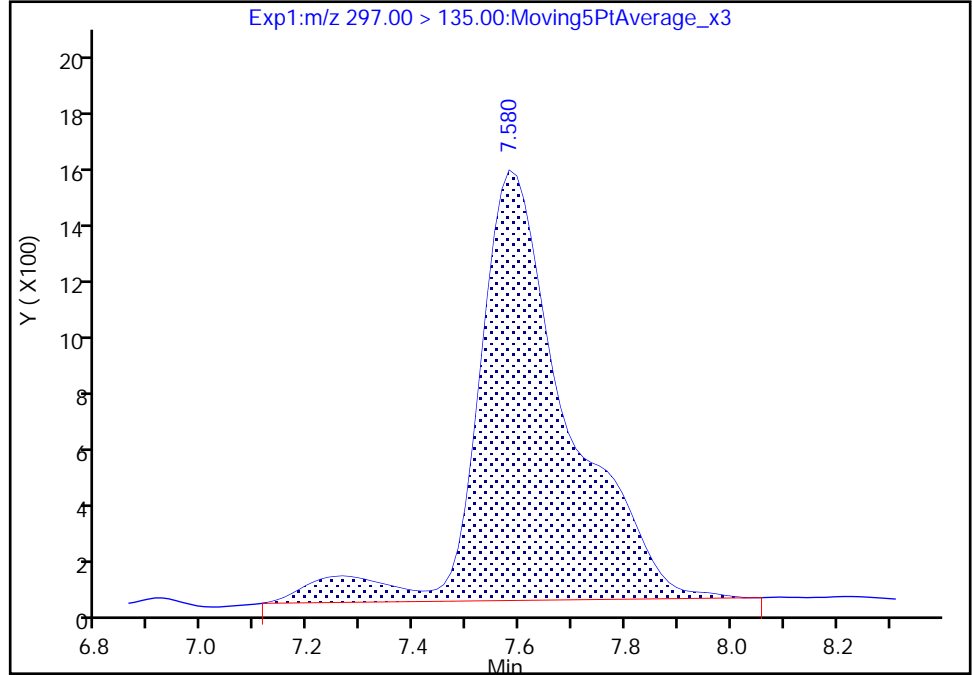
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

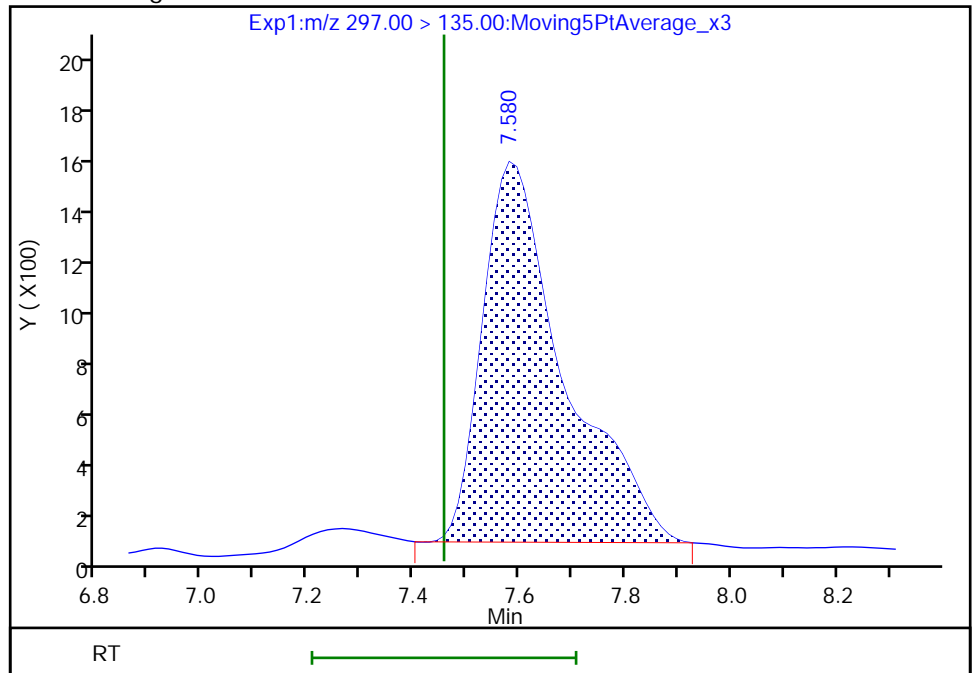
RT: 7.58  
Area: 18018  
Amount: 0.001441  
Amount Units: ng/ml

Processing Integration Results



RT: 7.58  
Area: 15983  
Amount: 0.000998  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:21:33  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

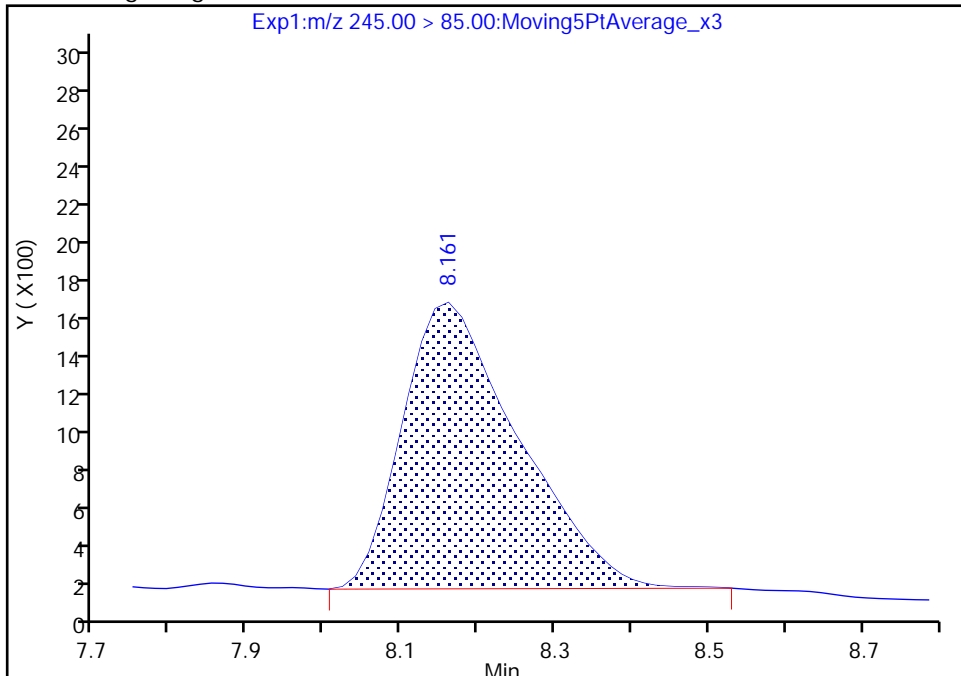
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

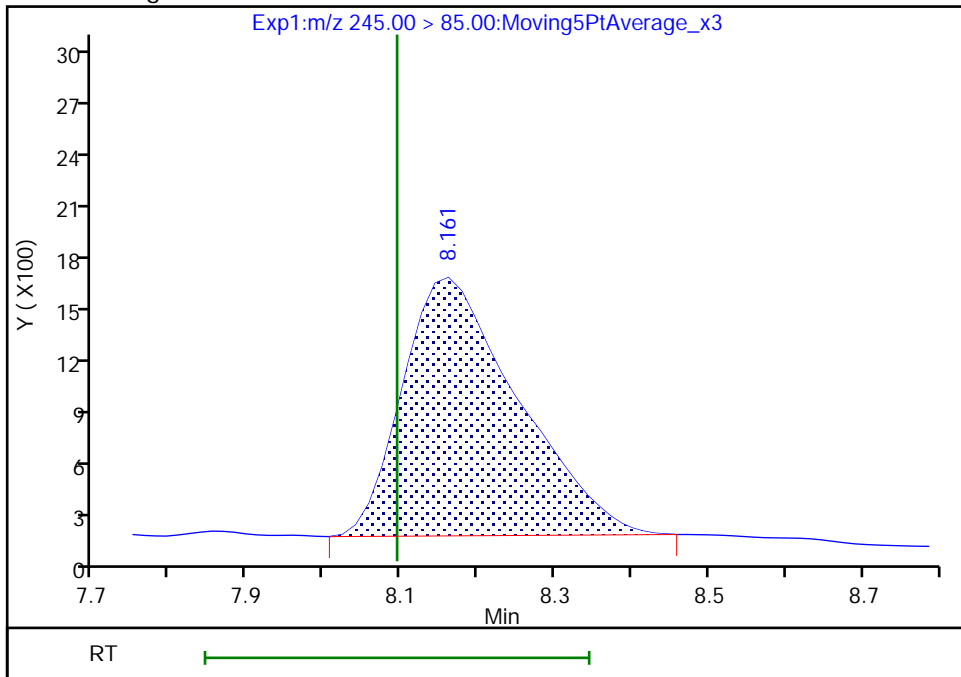
RT: 8.16  
Area: 15296  
Amount: 0.001098  
Amount Units: ng/ml

Processing Integration Results



RT: 8.16  
Area: 15170  
Amount: 0.001040  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:21:52  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

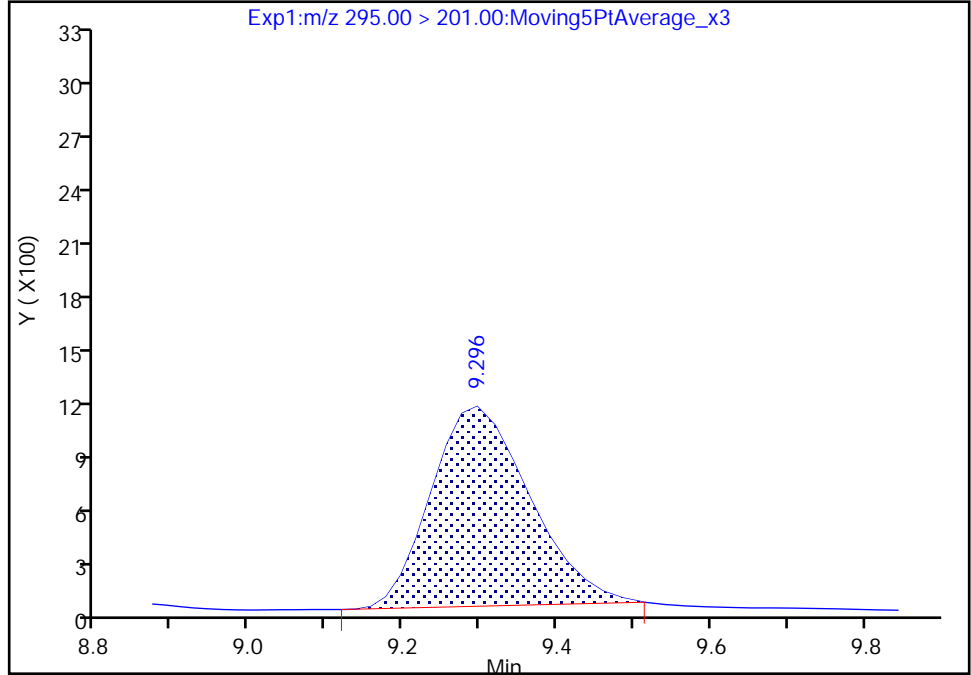
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

10 PFECA B, CAS: 151772-58-6

Signal: 1

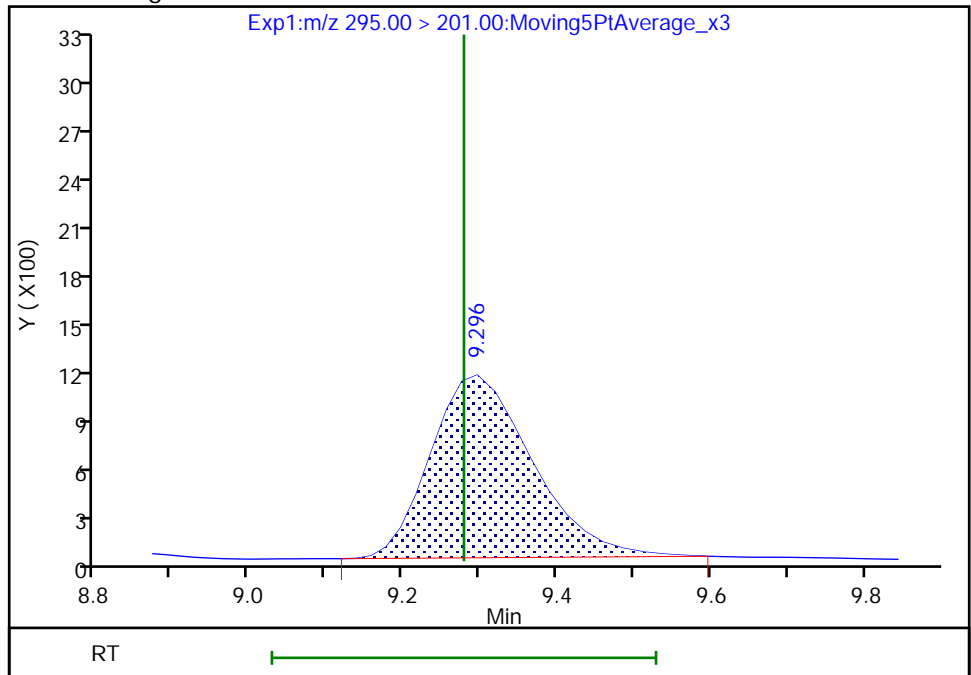
RT: 9.30  
Area: 10006  
Amount: 0.000988  
Amount Units: ng/ml

Processing Integration Results



RT: 9.30  
Area: 10402  
Amount: 0.000975  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

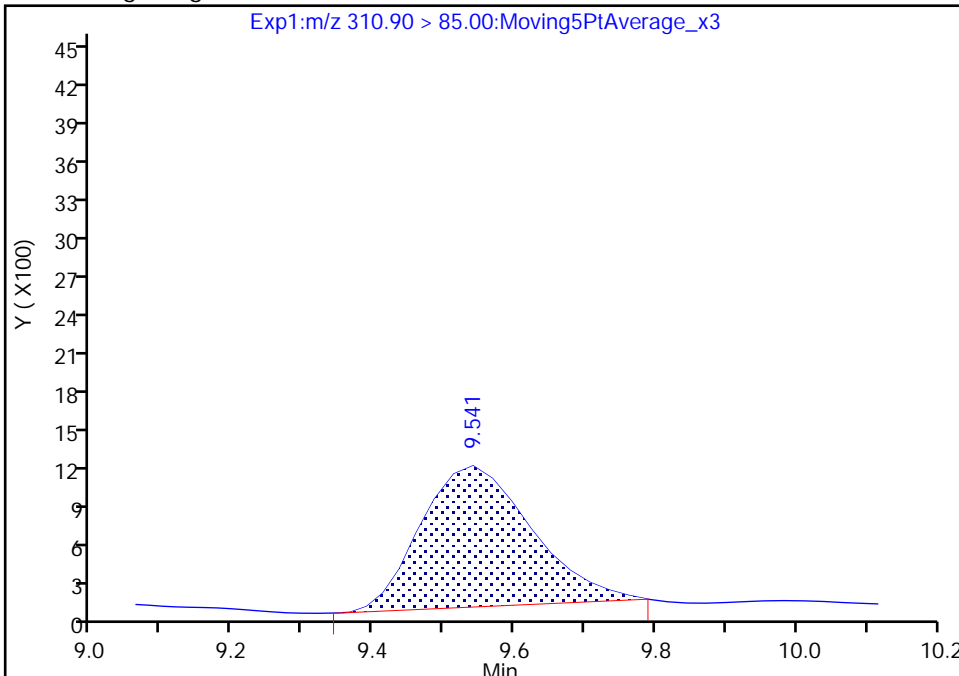
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Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

11 PFO3OA, CAS: 39492-89-2

Signal: 1

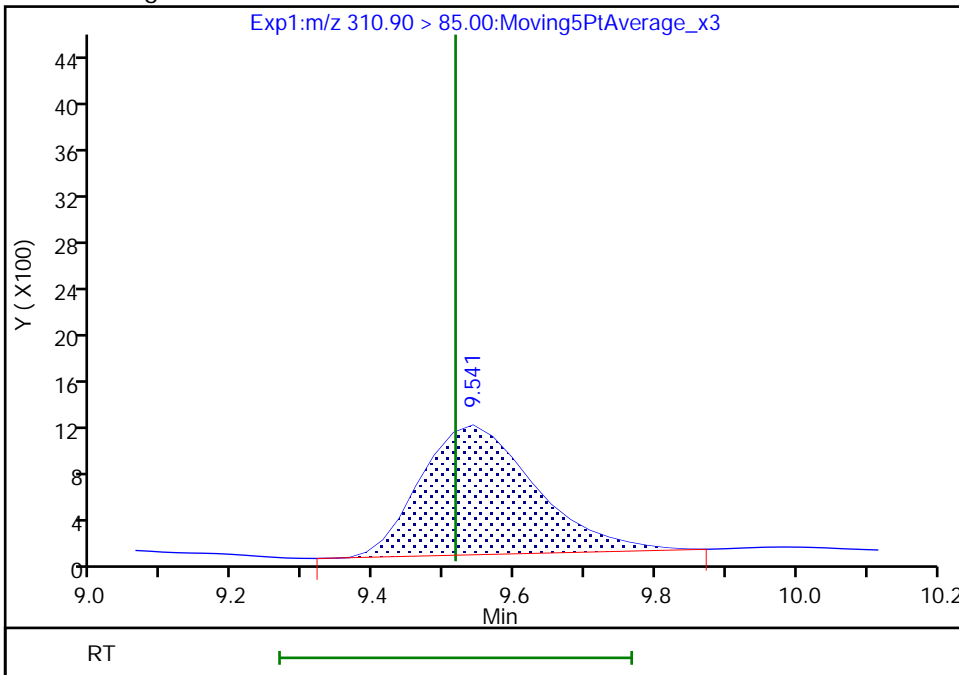
RT: 9.54  
Area: 11993  
Amount: 0.001043  
Amount Units: ng/ml

Processing Integration Results



RT: 9.54  
Area: 12596  
Amount: 0.001034  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

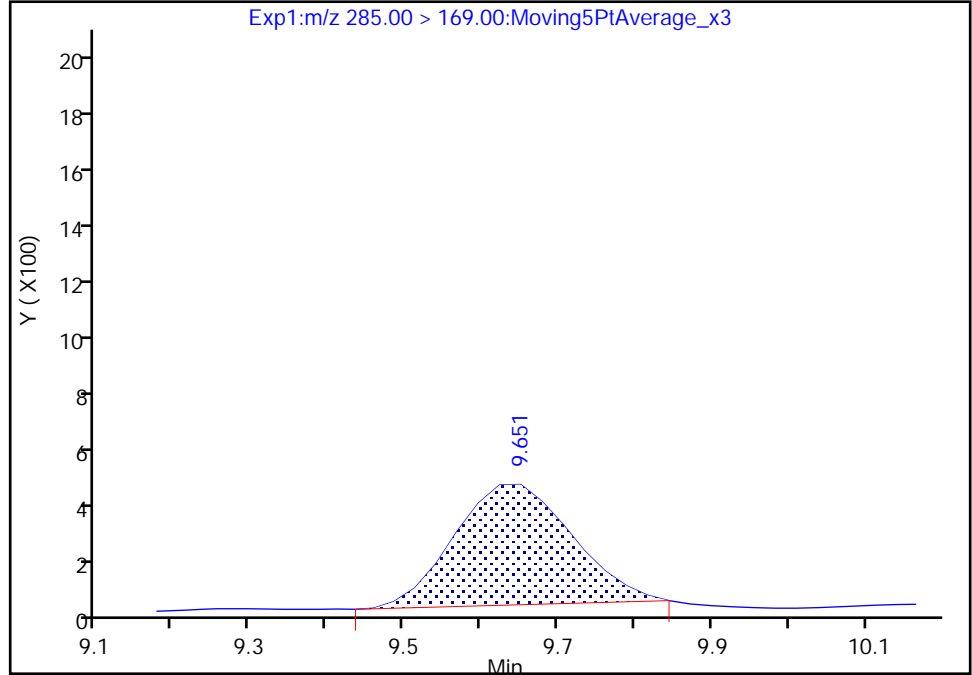
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_004.d  
 Injection Date: 15-Dec-2020 20:11:55 Instrument ID: A7\_N  
 Lims ID: IC STD 1  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

13 HPFO-DA, CAS: 13252-13-6

Signal: 1

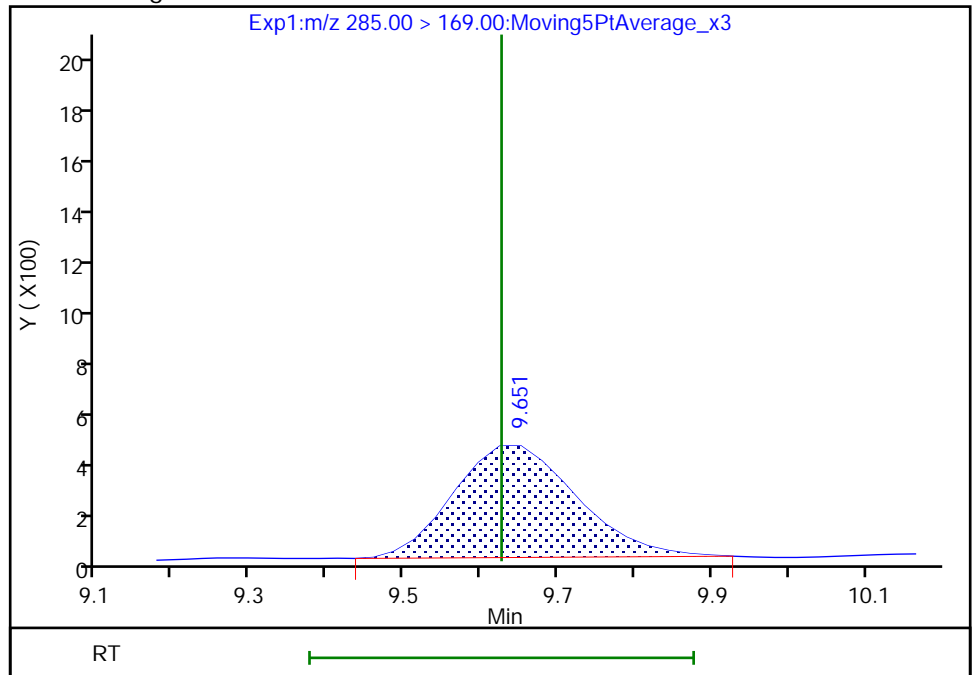
RT: 9.65  
 Area: 4586  
 Amount: 0.000856  
 Amount Units: ng/ml

Processing Integration Results



RT: 9.65  
 Area: 4919  
 Amount: 0.000868  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:22:15  
 Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 15-Dec-2020 20:29:30 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (42  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:03:08 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:23:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.820	2.785	0.035		30814	0.002494		99.7	82.0	M
2 R-EVE										M
405.00 > 217.00	6.669	6.657	0.012		11679	0.002324		93.0	221	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		5860	0.002295		91.8	152	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.872	6.860	0.012		27373	0.002404		96.2	581	M
5 PMPA										M
229.00 > 185.00	6.885	6.885	0.0		31627	0.002753		110	25.8	M
6 NVHOS										
297.00 > 135.00	7.470	7.457	0.013		40279	0.002516		101	428	
7 PFO2HxA										M
245.00 > 85.00	8.098	8.094	0.004		37433	0.002565		103	215	M
8 PEPA										
278.90 > 234.90	8.757	8.739	0.018		23331	0.002456		98.2	111	
9 PES										
314.90 > 135.00	9.066	9.044	0.022		228069	0.002598		104	4965	
10 PFECA B										
295.00 > 201.00	9.281	9.279	0.002		26687	0.002501		100	941	
11 PFO3OA										
310.90 > 85.00	9.520	9.516	0.004		30927	0.002538		102	472	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.630	9.599	0.031		1247368	0.2531		101	36617	
13 HPFO-DA										
285.00 > 169.00	9.630	9.627	0.004	1.000	16397	0.002890		116	491	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.989	9.957	0.032		272132	0.002543		102	8229	
16 Hydro-EVE Acid										
427.00 > 282.90	10.046	10.013	0.033		144402	0.002517		101	2279	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.046	10.013	0.033	1.000	71734	0.002740	Target=0.00	110	1104	
363.00 > 169.00	10.046	10.013	0.033	1.000	39557		1.81(0.00-0.00)	110	925	
D 15 13C4 PFHpA										
367.00 > 322.00	10.046	10.013	0.033		5402471	0.2377		95.1	166366	
17 Hydro-PS Acid										
463.00 > 262.90	10.072	10.042	0.030		93165	0.002608		104	2369	
19 PFECA G										
378.90 > 184.90	10.171	10.145	0.026		60281	0.002384		95.4	1984	
20 PFO4DA										
376.90 > 85.00	10.295	10.269	0.026		40479	0.003006		120	397	
21 PS Acid										
443.00 > 146.90	10.370	10.344	0.026		45488	0.002752		110	1499	
22 EVE Acid										
407.00 > 262.90	10.370	10.344	0.026		136249	0.002481		99.2	4457	
23 TAF										M
442.90 > 85.00	10.874	10.847	0.027		8961	0.002501		100	28.6	M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00042

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d

Injection Date: 15-Dec-2020 20:29:30

Instrument ID: A7\_N

Lims ID: IC STD 2

Client ID:

Operator ID: abservice

ALS Bottle#: 5

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

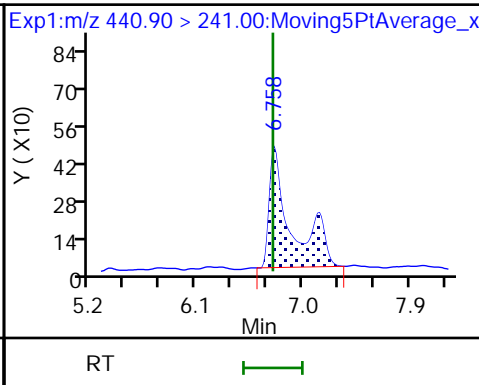
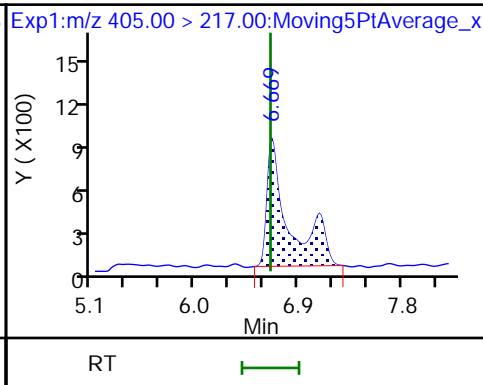
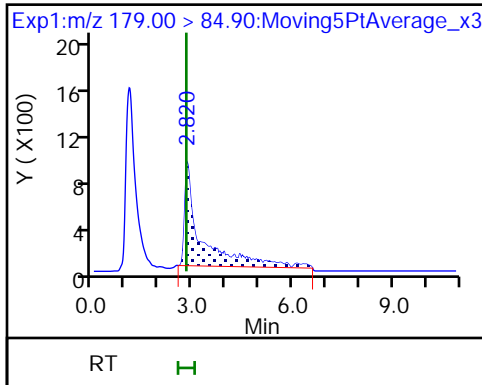
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

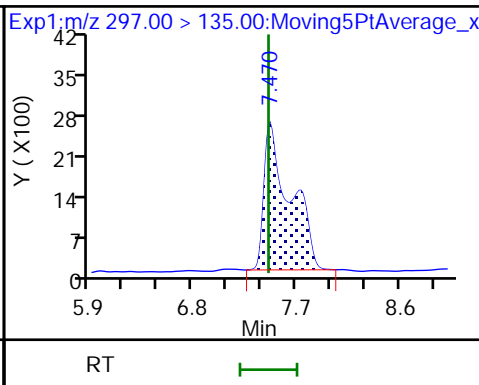
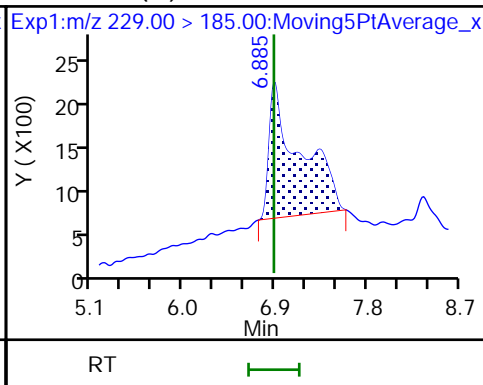
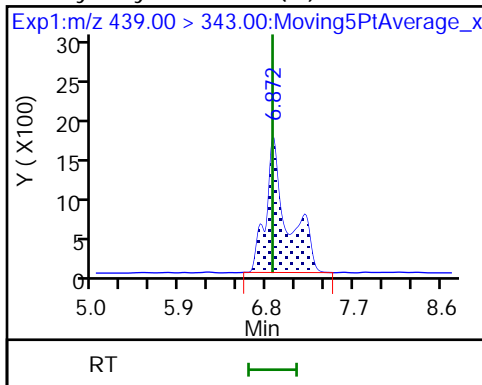
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

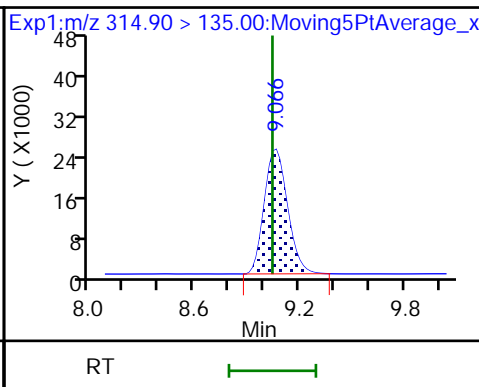
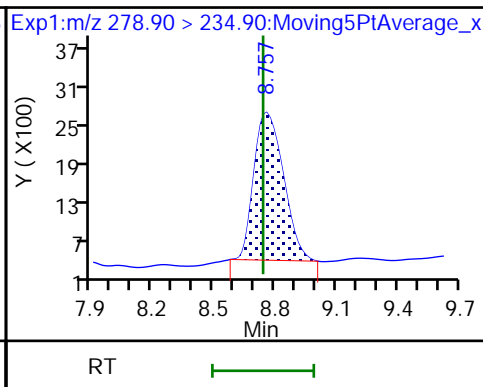
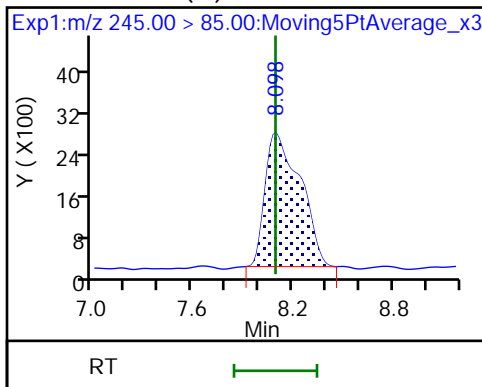
6 NVHOS



7 PFO2HxA (M)

8 PEPA

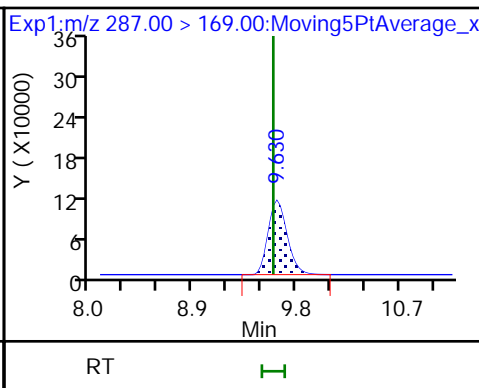
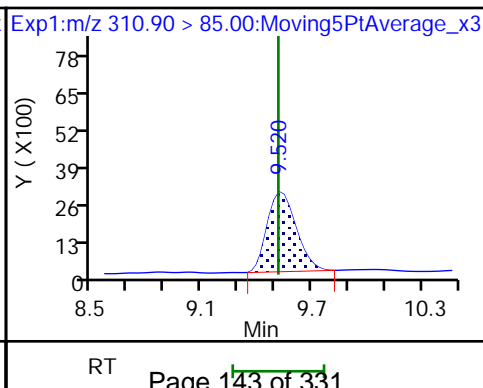
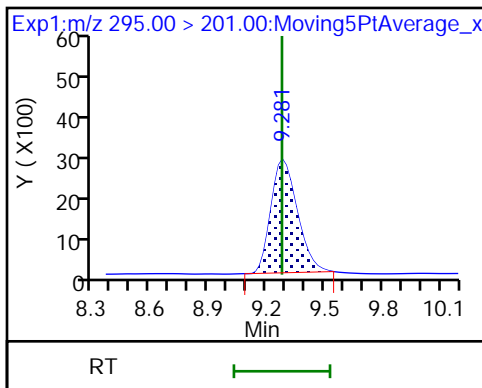
9 PES

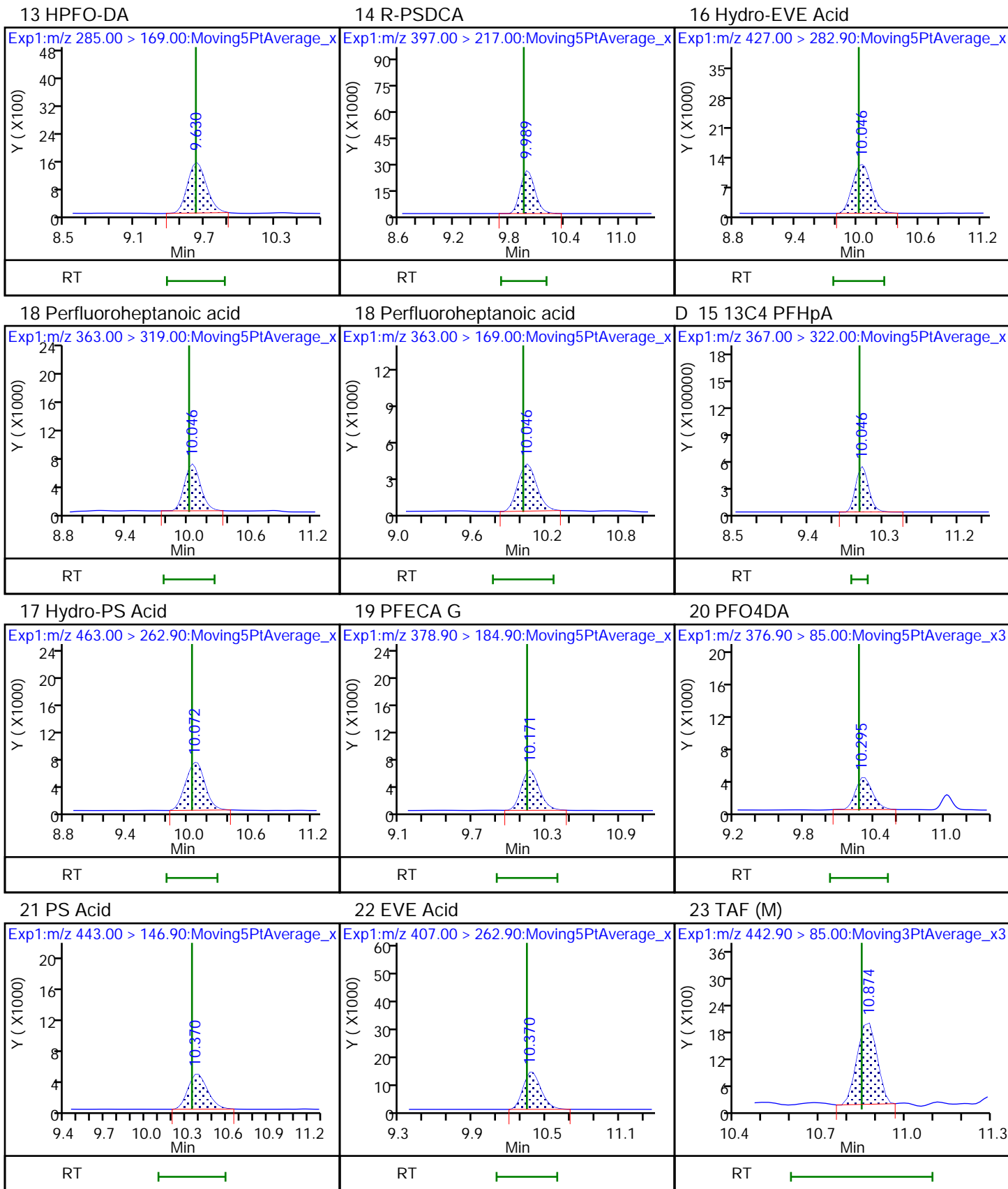


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

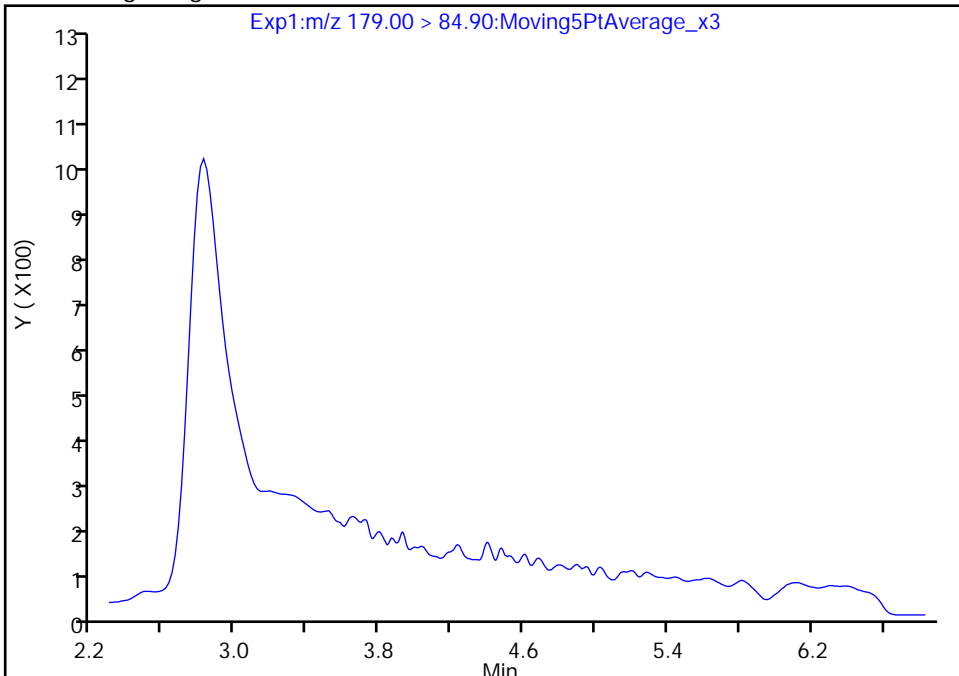
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

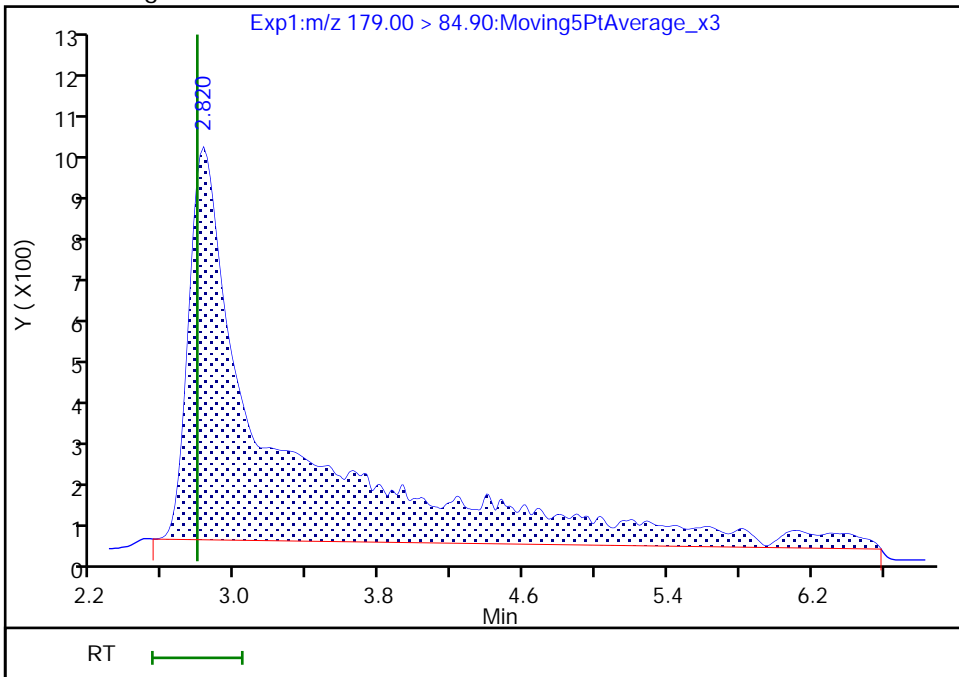
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.82  
Area: 30814  
Amount: 0.002494  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:23:00  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

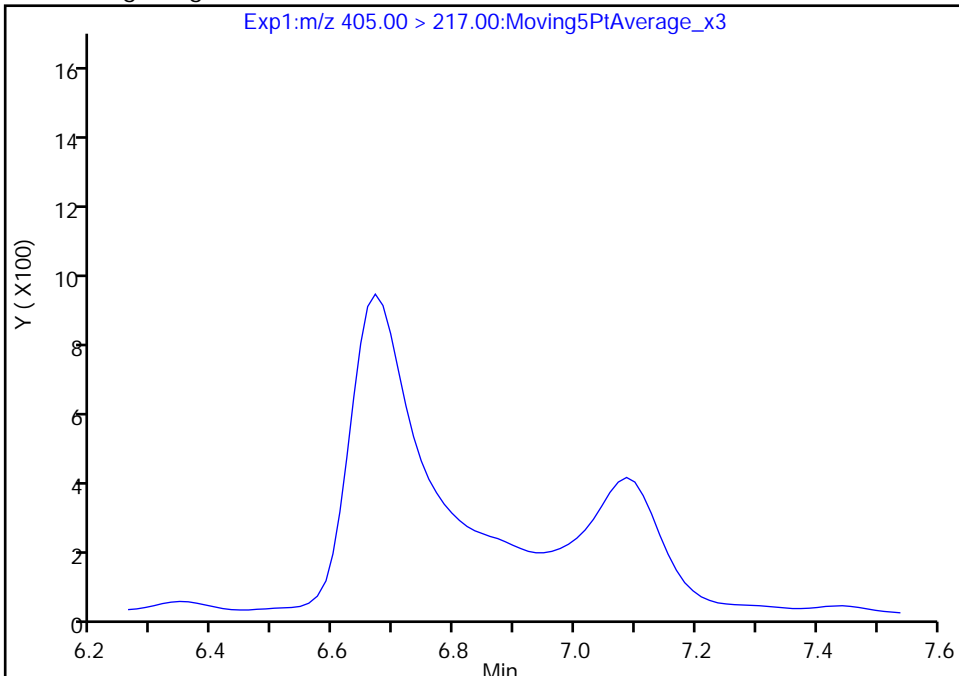
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

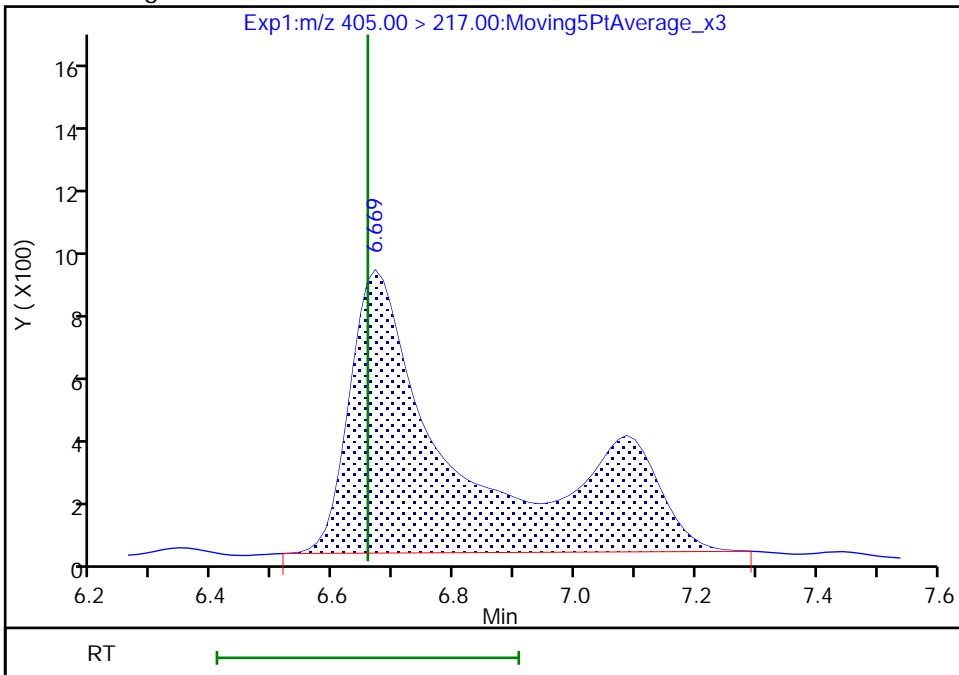
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.67  
Area: 11679  
Amount: 0.002324  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:23:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

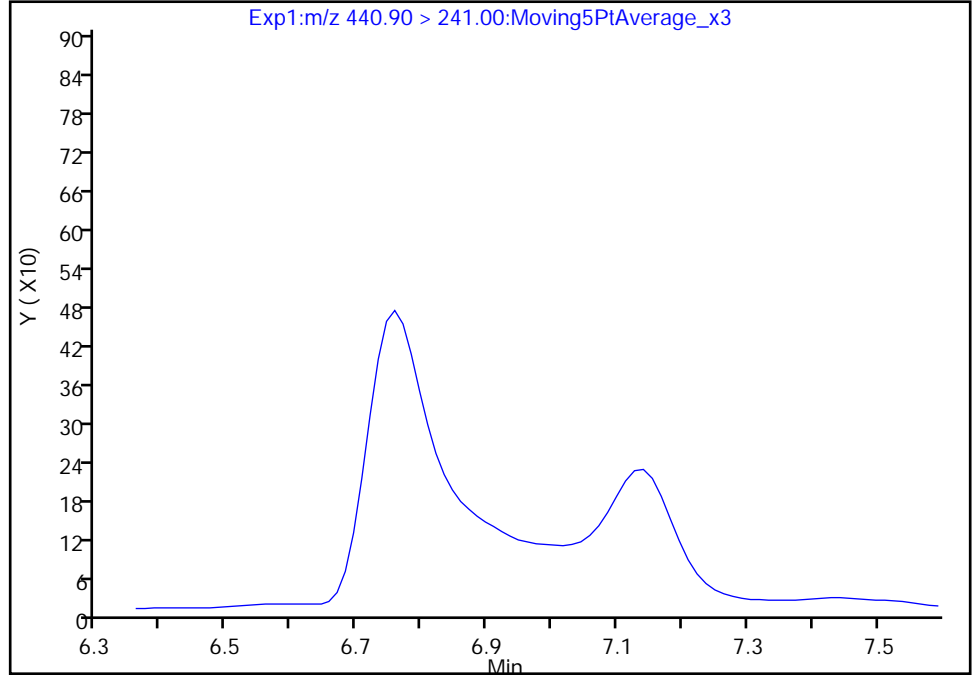
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

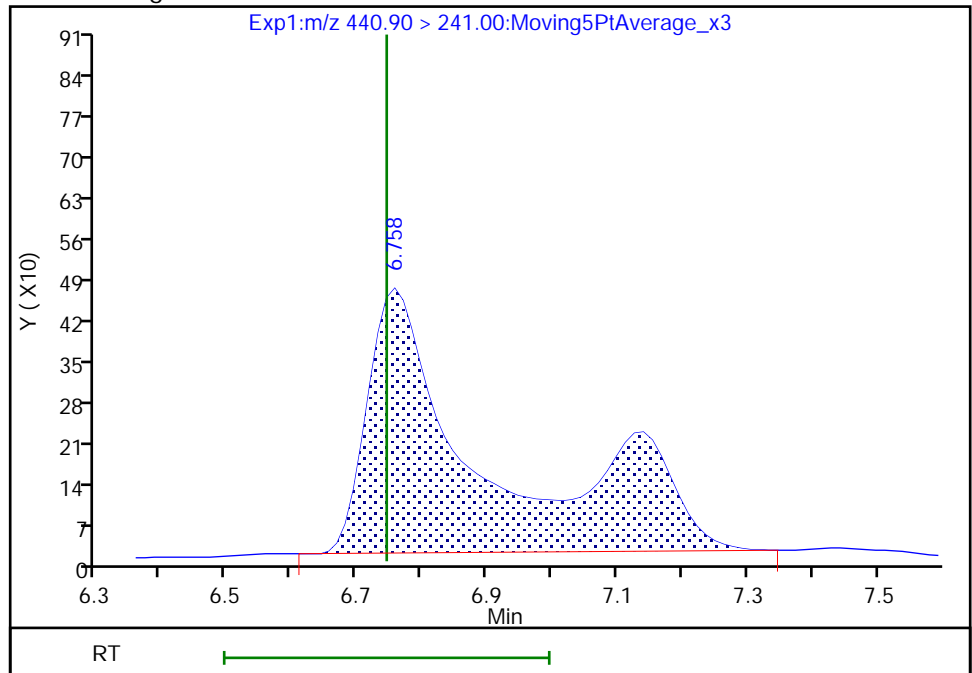
Not Detected  
Expected RT: 6.75

Processing Integration Results



RT: 6.76  
Area: 5860  
Amount: 0.002295  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 09:23:11  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

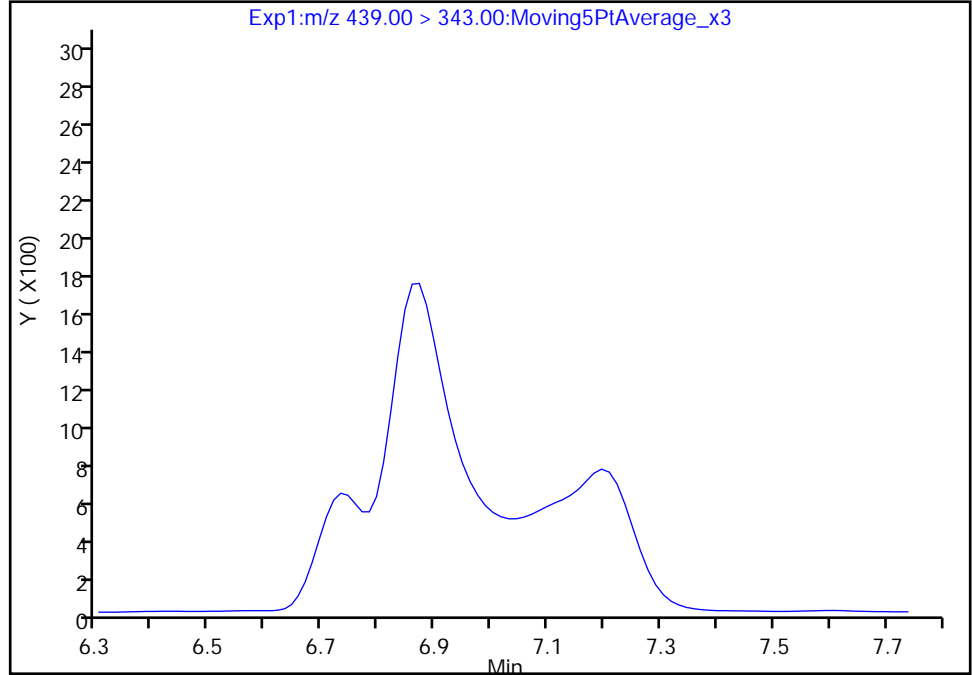
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

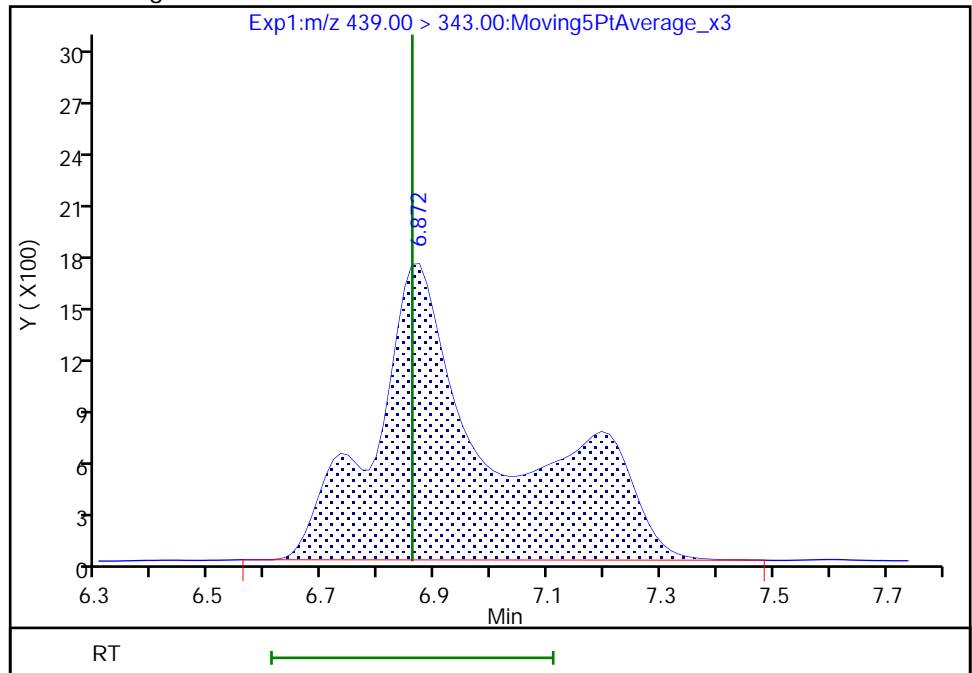
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 27373  
Amount: 0.002404  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:23:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

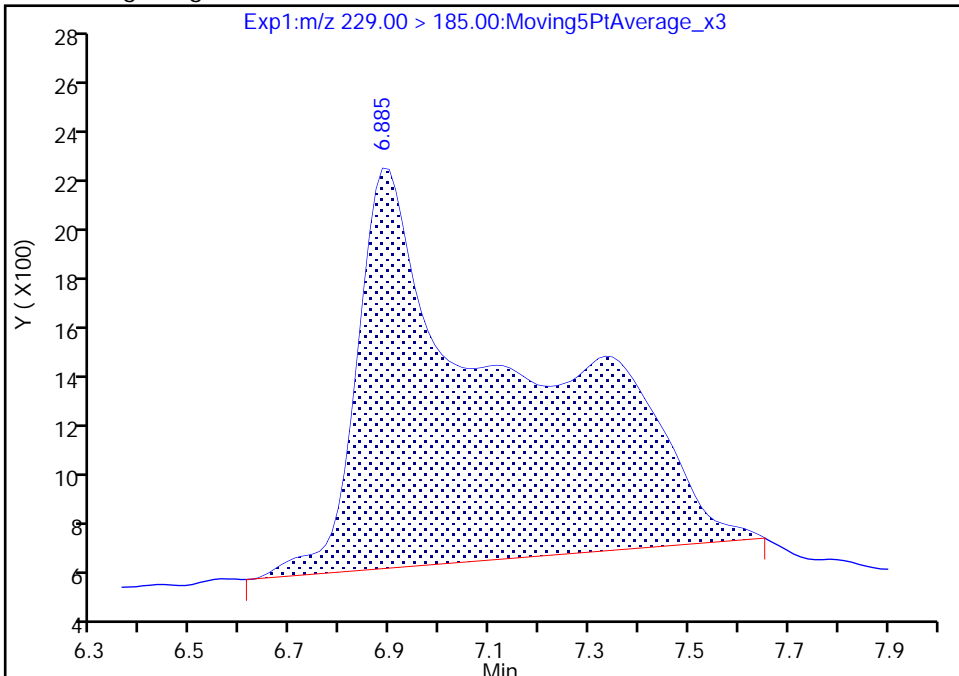
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

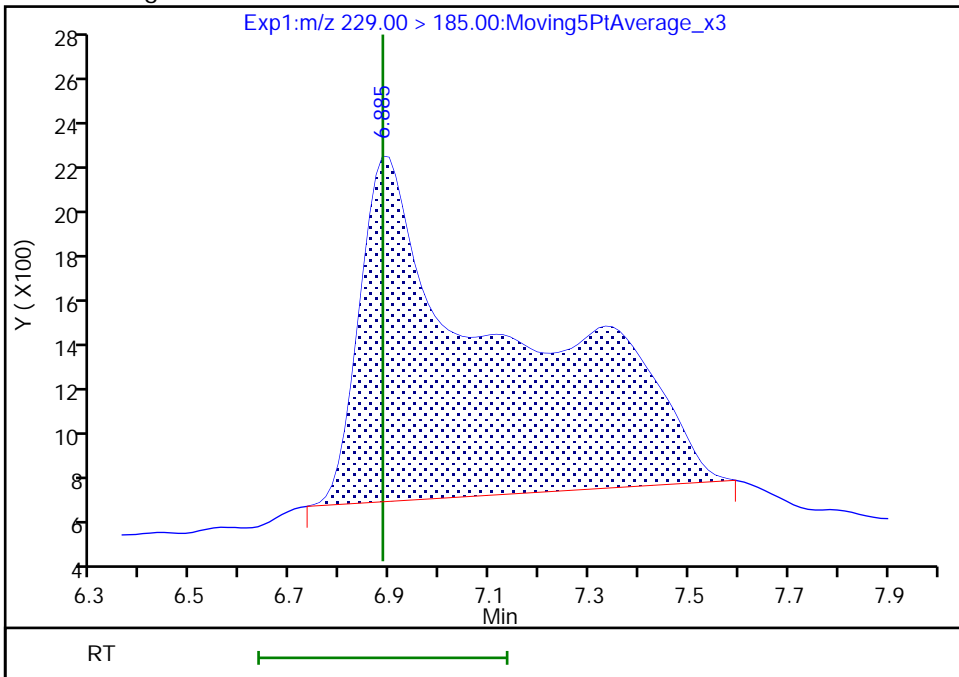
RT: 6.88  
Area: 35359  
Amount: 0.003568  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 31627  
Amount: 0.002753  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

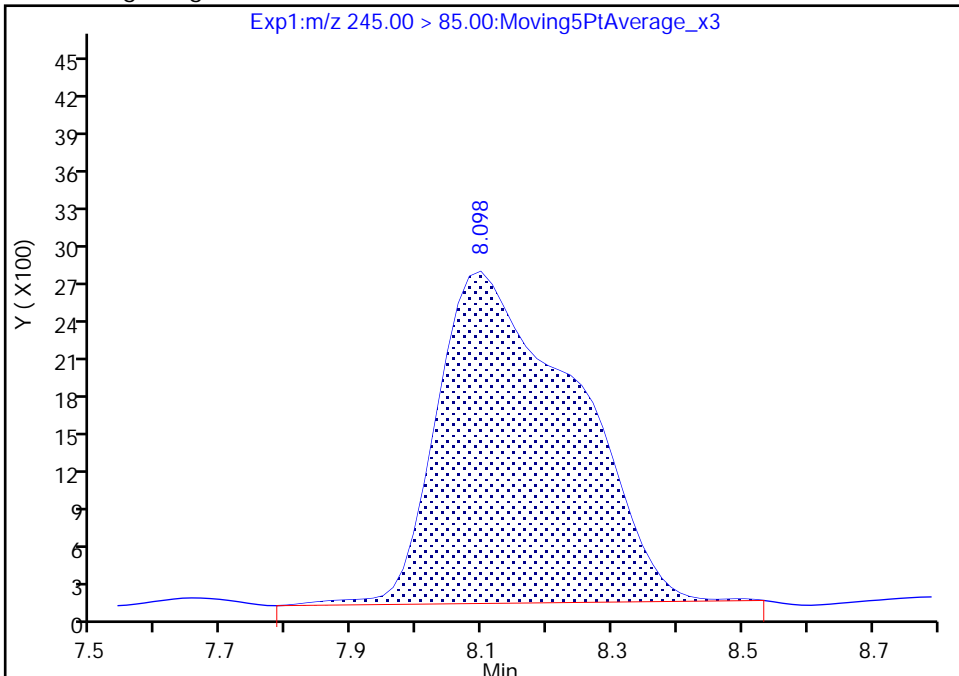
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_005.d  
Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

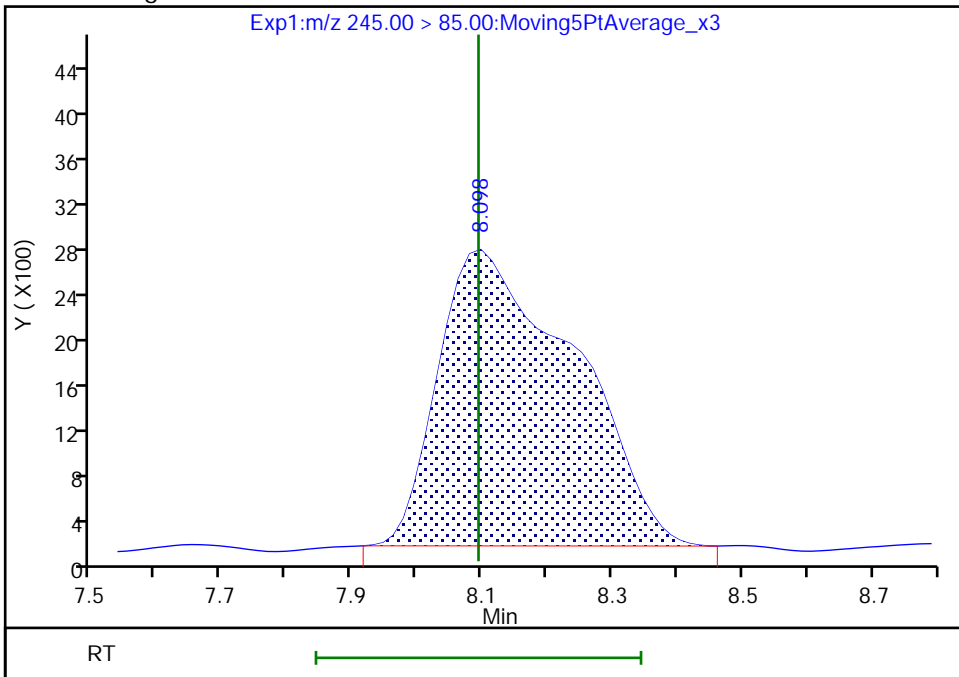
RT: 8.10  
Area: 38544  
Amount: 0.002770  
Amount Units: ng/ml

Processing Integration Results



RT: 8.10  
Area: 37433  
Amount: 0.002565  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:23:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

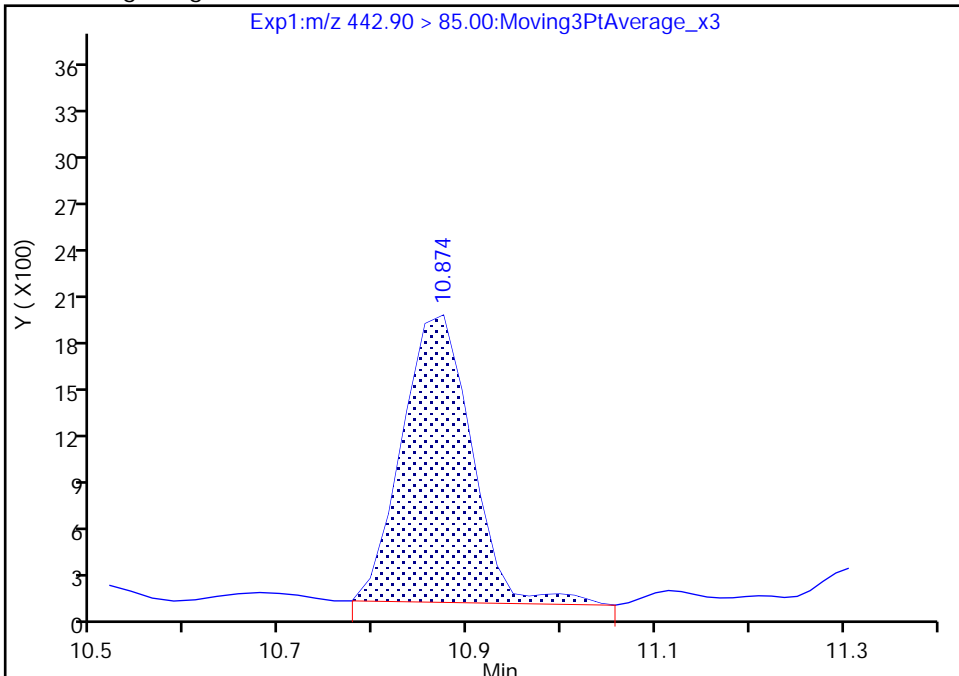
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Injection Date: 15-Dec-2020 20:29:30 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 TAF, CAS: 39492-91-6

Signal: 1

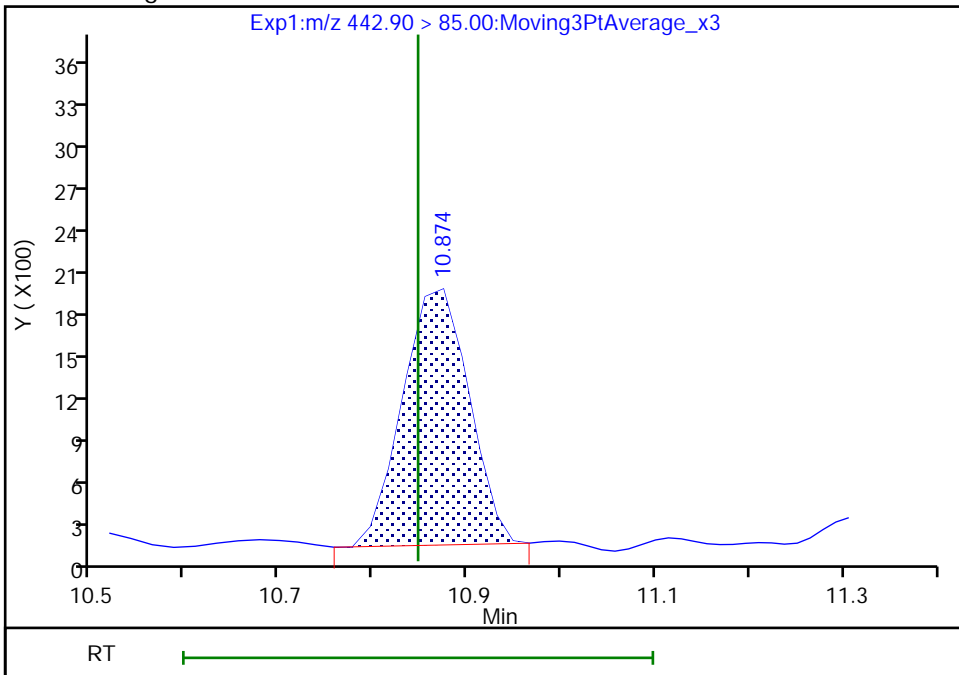
RT: 10.87  
Area: 9484  
Amount: 0.002832  
Amount Units: ng/ml

Processing Integration Results



RT: 10.87  
Area: 8961  
Amount: 0.002501  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 15-Dec-2020 20:47:07 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (42  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:03:40 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:25:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.715	2.785	-0.070		62326	0.005044		101	136	M
2 R-EVE										M
405.00 > 217.00	6.622	6.657	-0.035		23702	0.004717		94.3	424	M
3 R-PSDA										M
440.90 > 241.00	6.720	6.746	-0.026		11821	0.004629		92.6	283	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.821	6.860	-0.039		54113	0.004753		95.1	1025	M
5 PMPA										M
229.00 > 185.00	6.872	6.885	-0.013		52231	0.004546		90.9	46.3	M
6 NVHOS										M
297.00 > 135.00	7.457	7.457	0.0		74525	0.004655		93.1	785	M
7 PFO2HxA										M
245.00 > 85.00	8.092	8.094	-0.002		68300	0.004680		93.6	387	M
8 PEPA										M
278.90 > 234.90	8.753	8.739	0.013		46129	0.004856		97.1	195	M
9 PES										M
314.90 > 135.00	9.061	9.044	0.017		424082	0.004830		96.6	9036	M
10 PFECA B										M
295.00 > 201.00	9.276	9.279	-0.003		47009	0.004405		88.1	1634	M
11 PFO3OA										M
310.90 > 85.00	9.541	9.516	0.025		61518	0.005049		101	786	M
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1287578	0.2612		104	37622	M
13 HPFO-DA										M
285.00 > 169.00	9.624	9.627	-0.002	1.000	26977	0.004606		92.1	791	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		529239	0.004945		98.9	15901	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		266416	0.004645		92.9	4203	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	133308	0.005125	Target=0.00	102	2452	
363.00 > 169.00	10.039	10.013	0.026	1.000	75354		1.77(0.00-0.00)	102	1746	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5843429	0.2571		103	179437	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		175496	0.004913		98.3	4448	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		135286	0.005350		107	4425	
20 PFO4DA										
376.90 > 85.00	10.315	10.269	0.046		72641	0.005395		108	722	
21 PS Acid										
443.00 > 146.90	10.364	10.344	0.020		88224	0.005338		107	2900	
22 EVE Acid										
407.00 > 262.90	10.364	10.344	0.020		276588	0.005037		101	9046	
23 TAF										
442.90 > 85.00	10.850	10.847	0.003		23004	0.006420		128	82.0	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00042

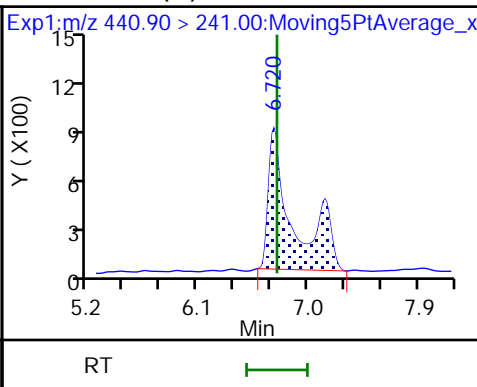
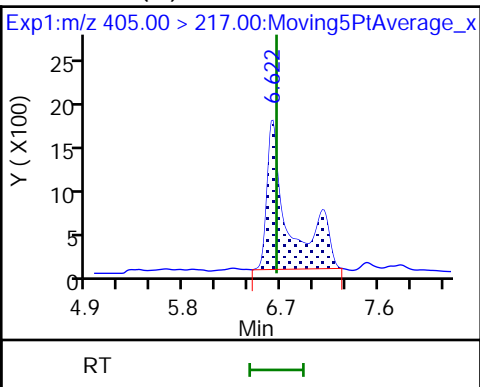
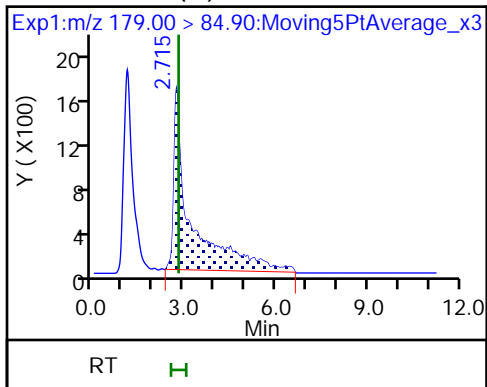
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

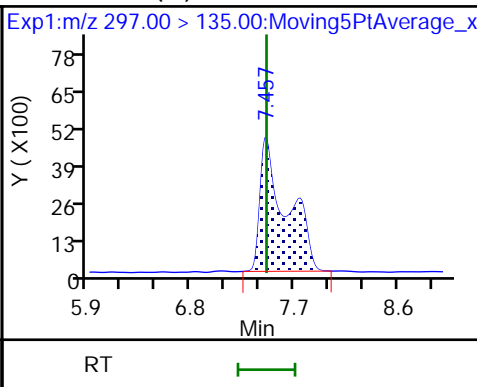
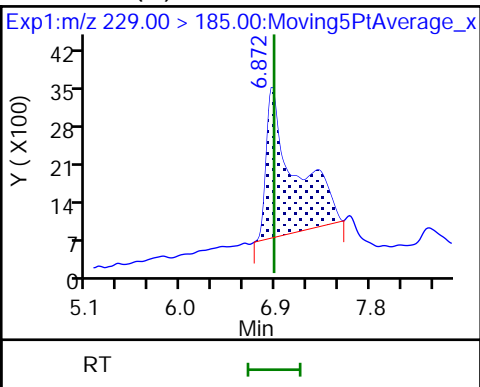
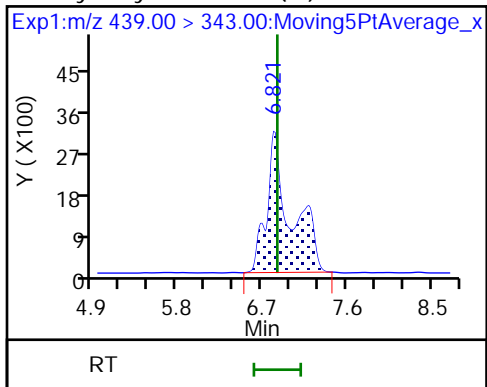
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

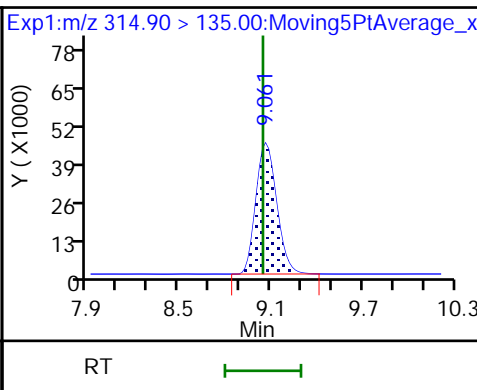
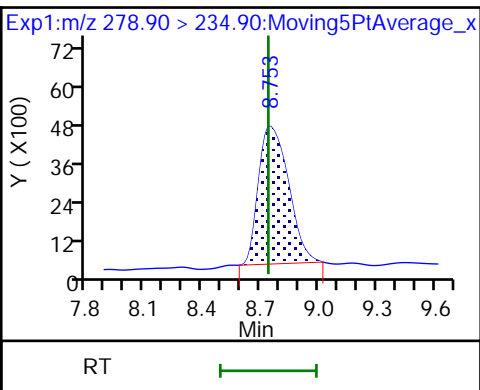
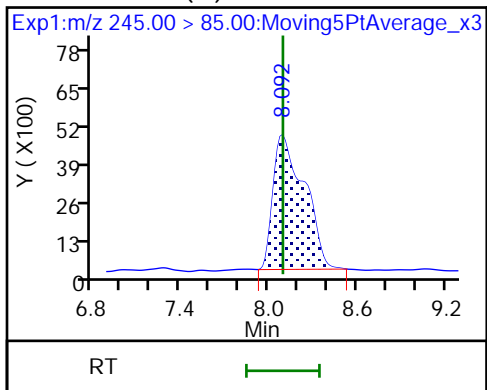
6 NVHOS (M)



7 PFO2HxA (M)

8 PEPA

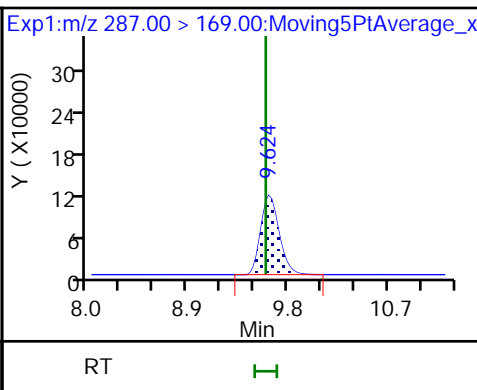
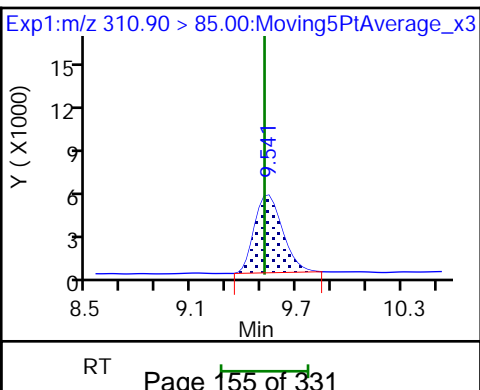
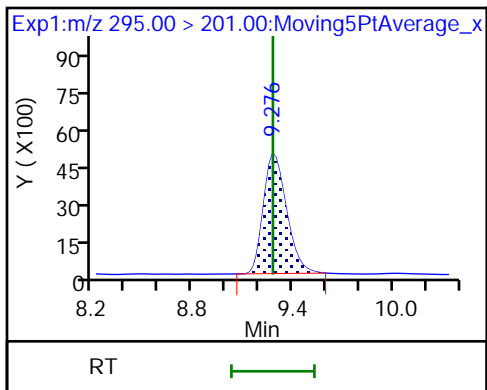
9 PES

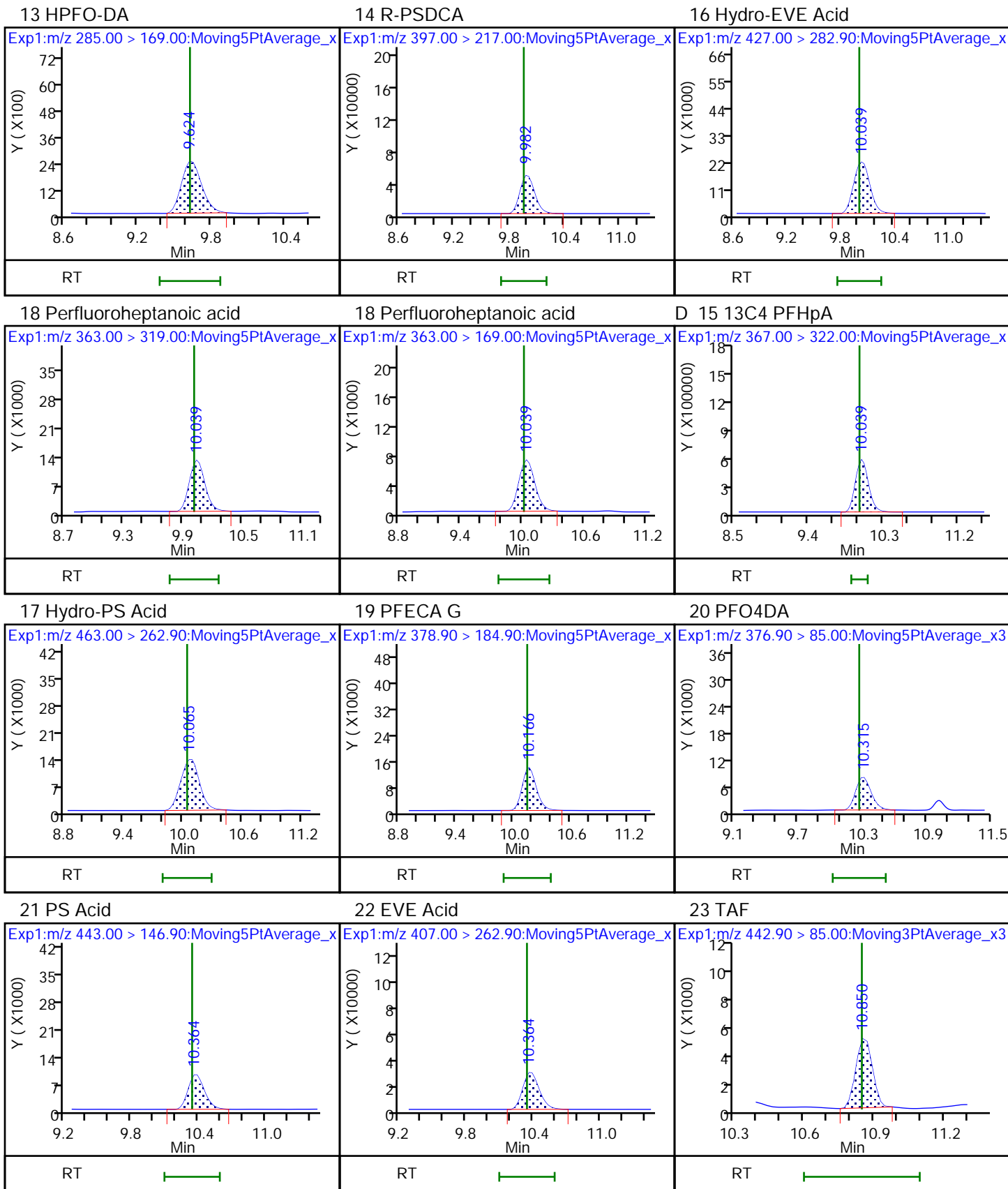


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

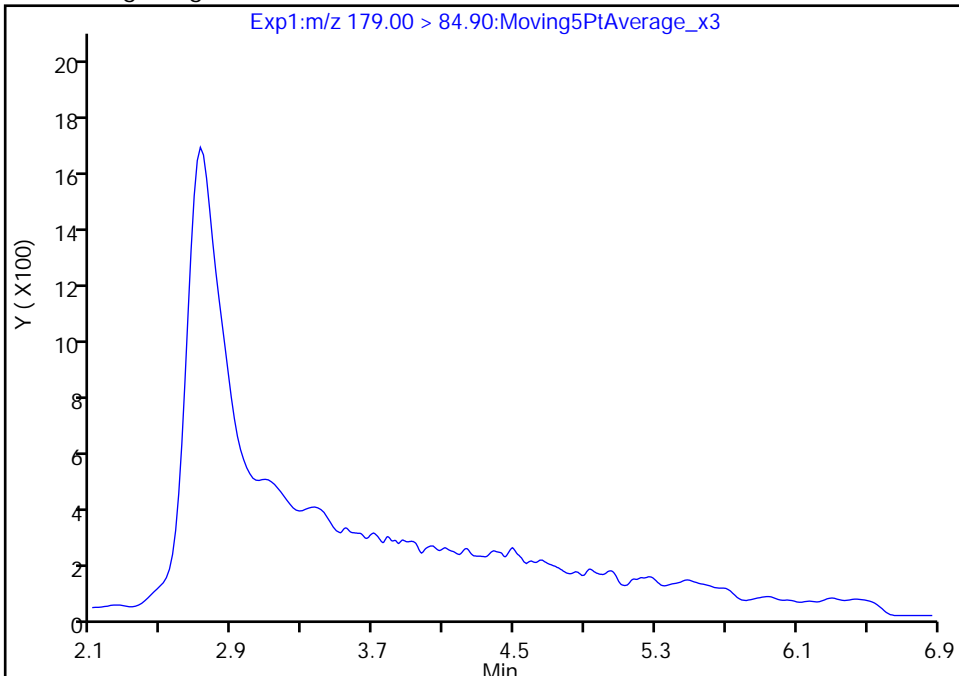
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

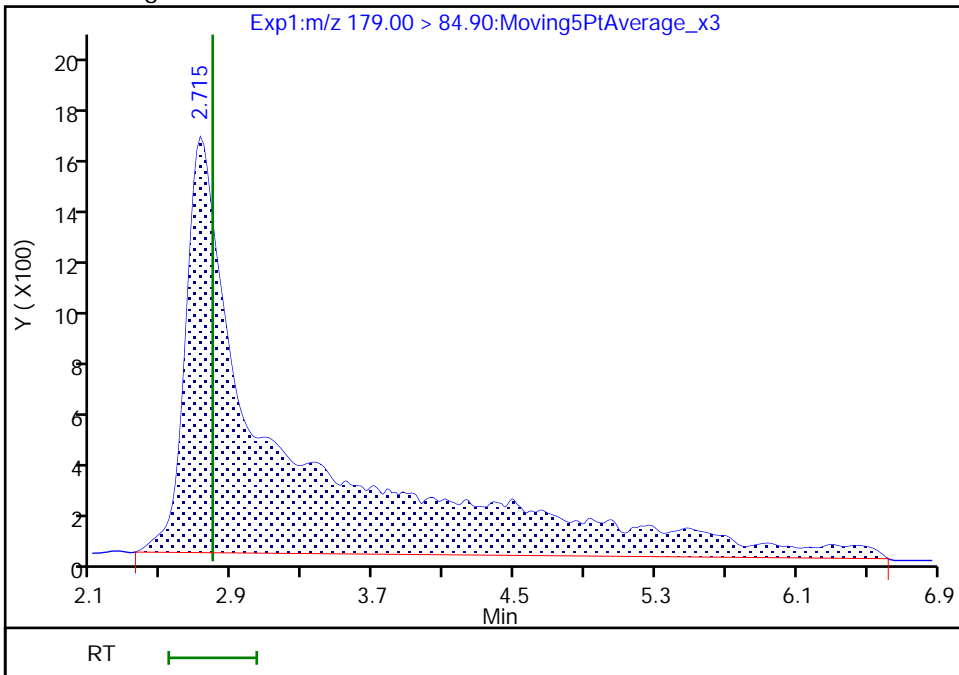
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.72  
Area: 62326  
Amount: 0.005044  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

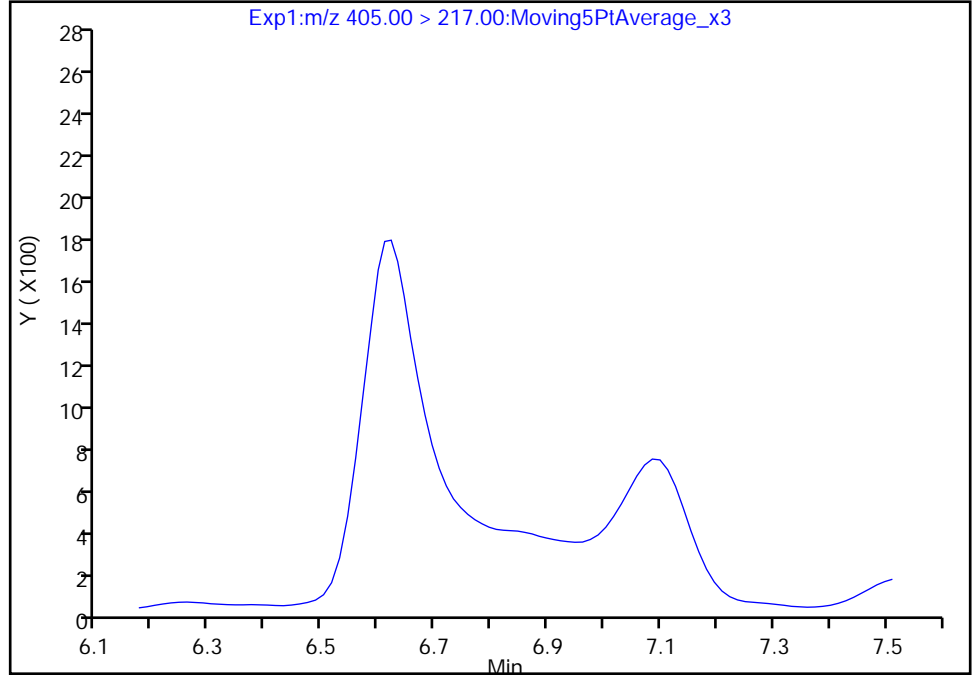
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_006.d  
Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

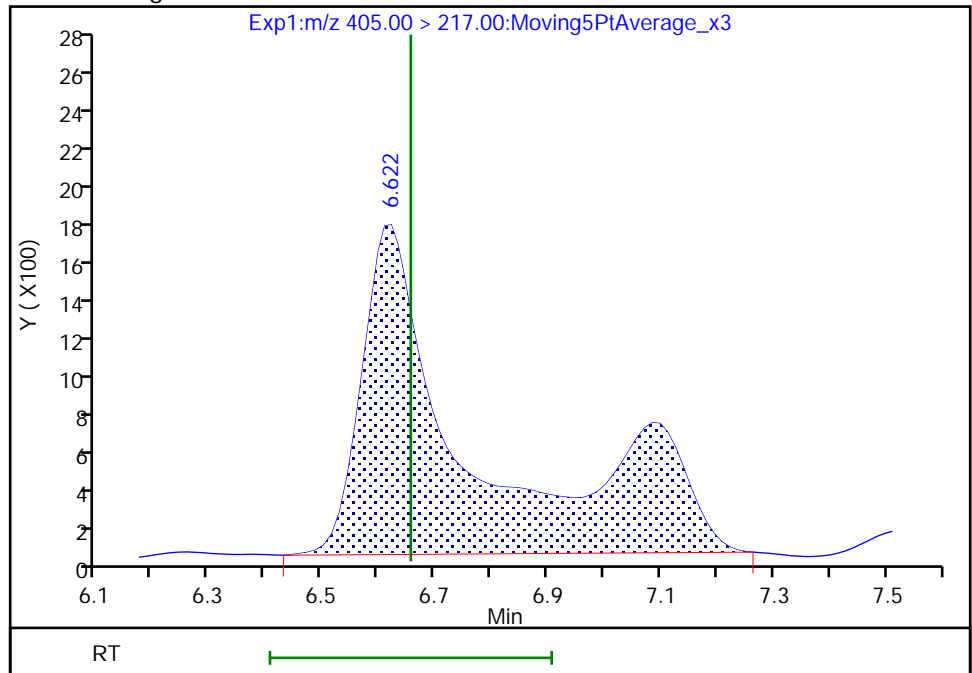
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.62  
Area: 23702  
Amount: 0.004717  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:24:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

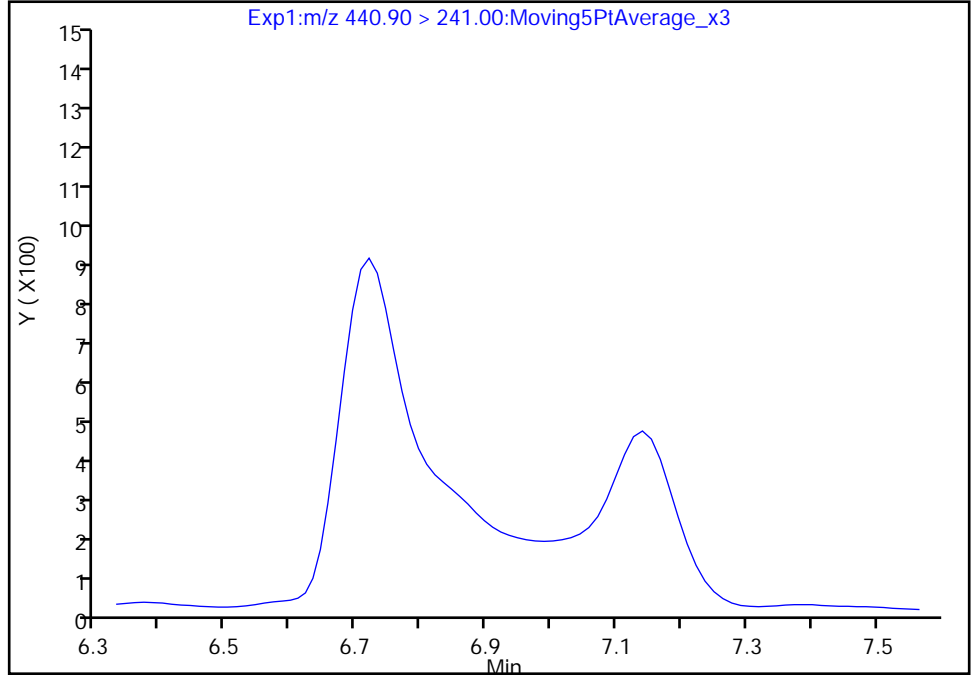
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

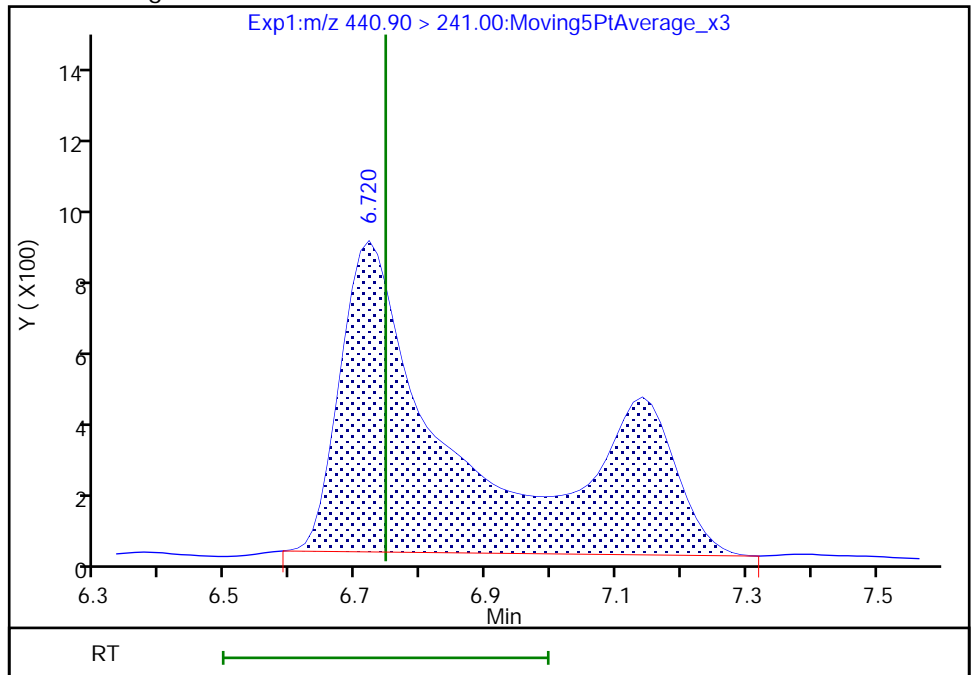
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.72  
Area: 11821  
Amount: 0.004629  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:24:27  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

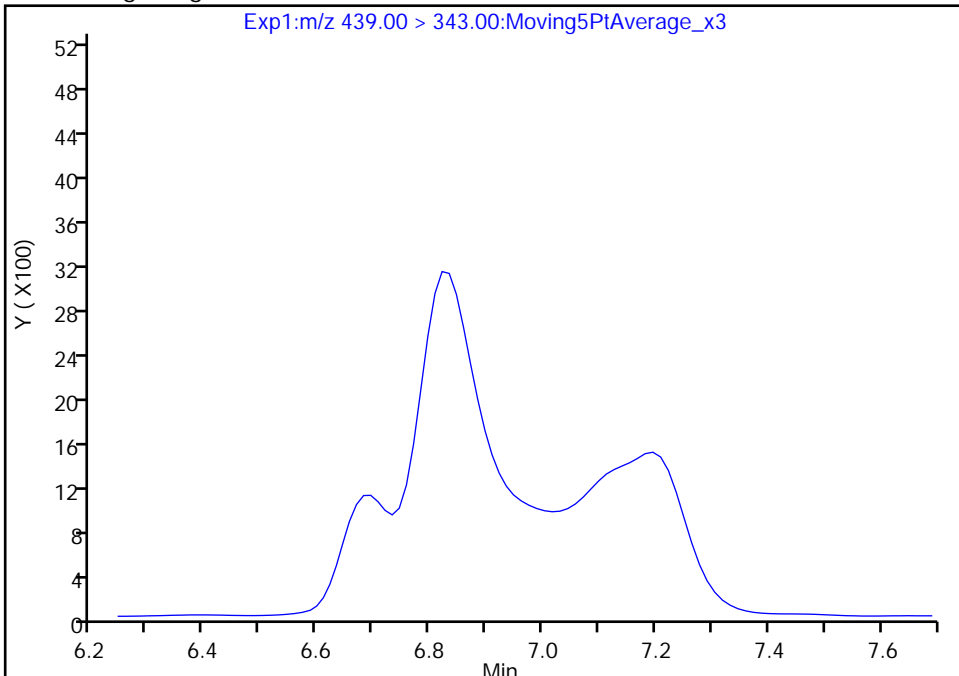
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

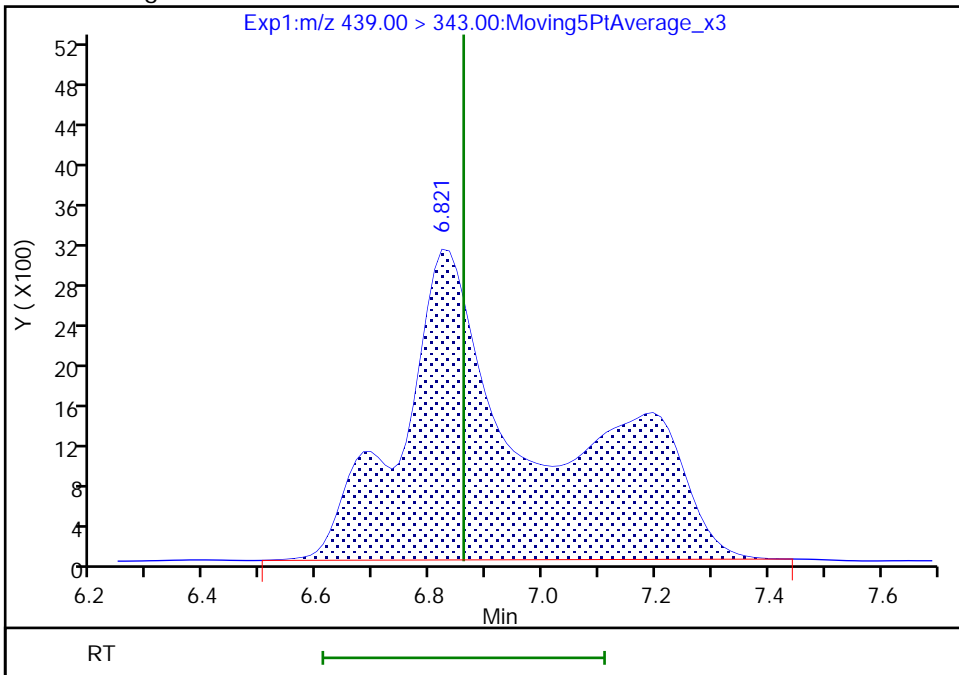
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.82  
Area: 54113  
Amount: 0.004753  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:24:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

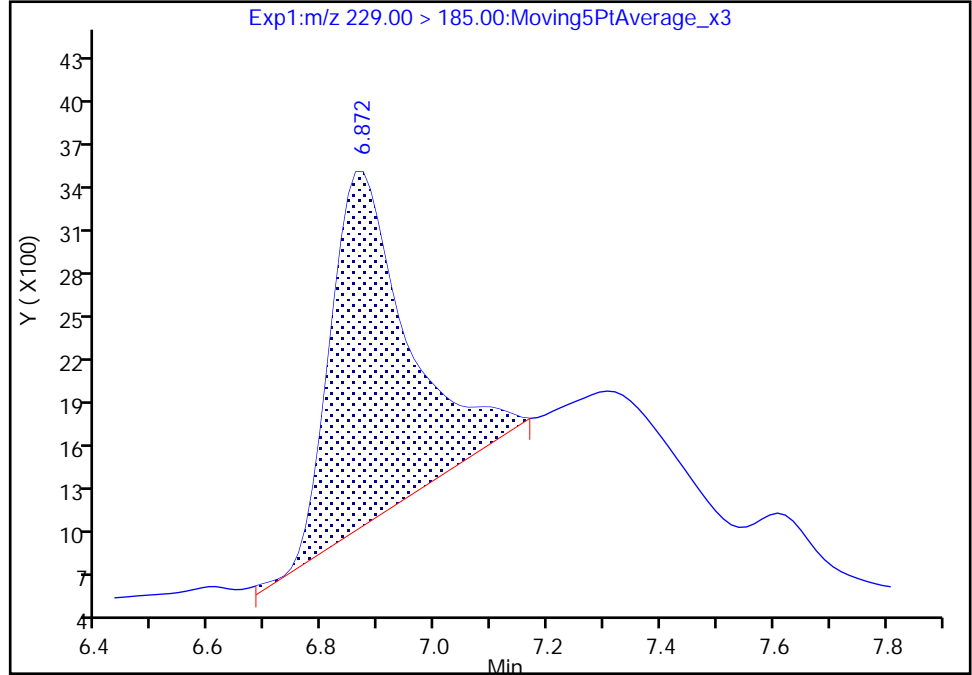
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

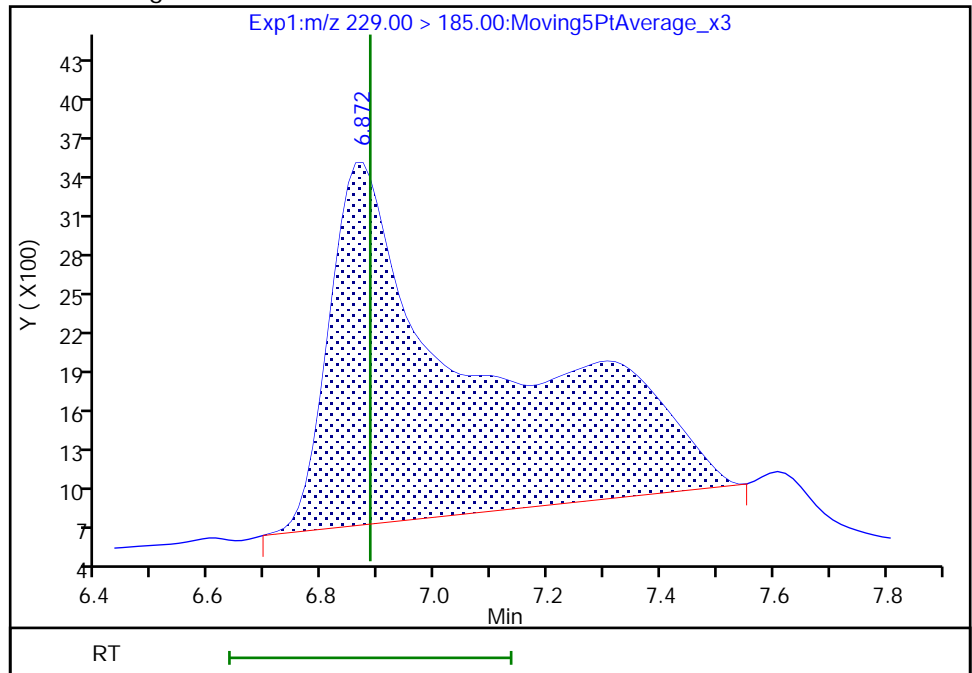
RT: 6.87  
Area: 23643  
Amount: 0.002422  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 52231  
Amount: 0.004546  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:24:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

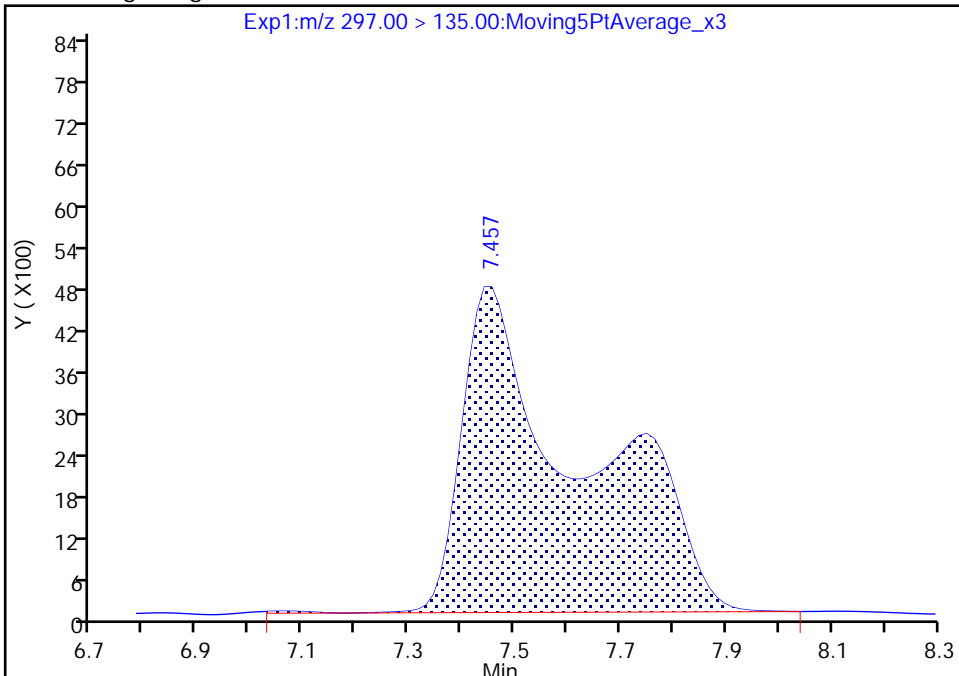
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

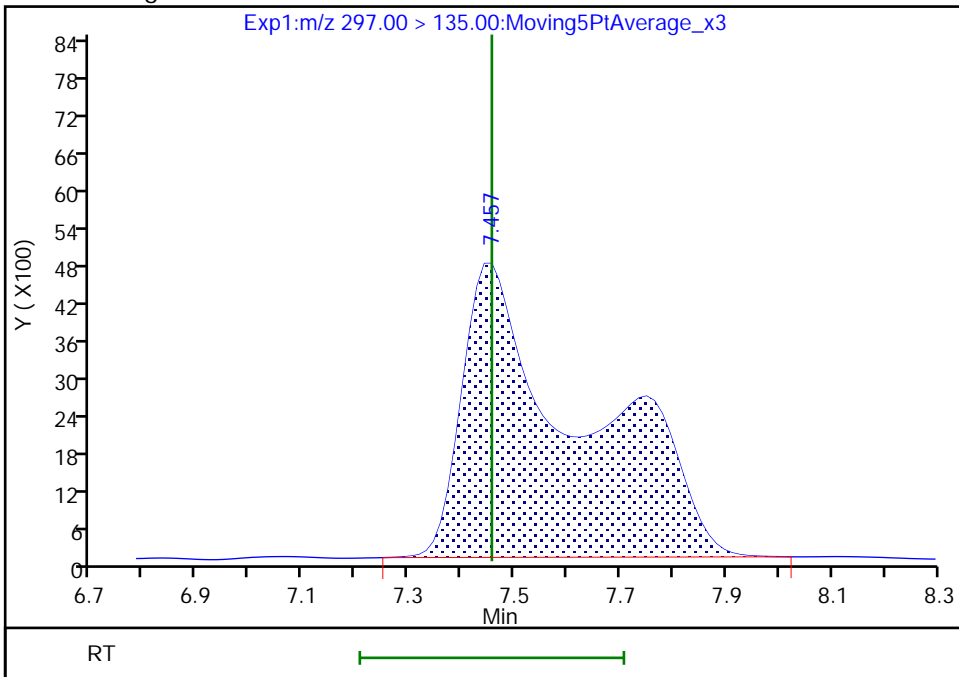
RT: 7.46  
Area: 74898  
Amount: 0.006089  
Amount Units: ng/ml

Processing Integration Results



RT: 7.46  
Area: 74525  
Amount: 0.004655  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

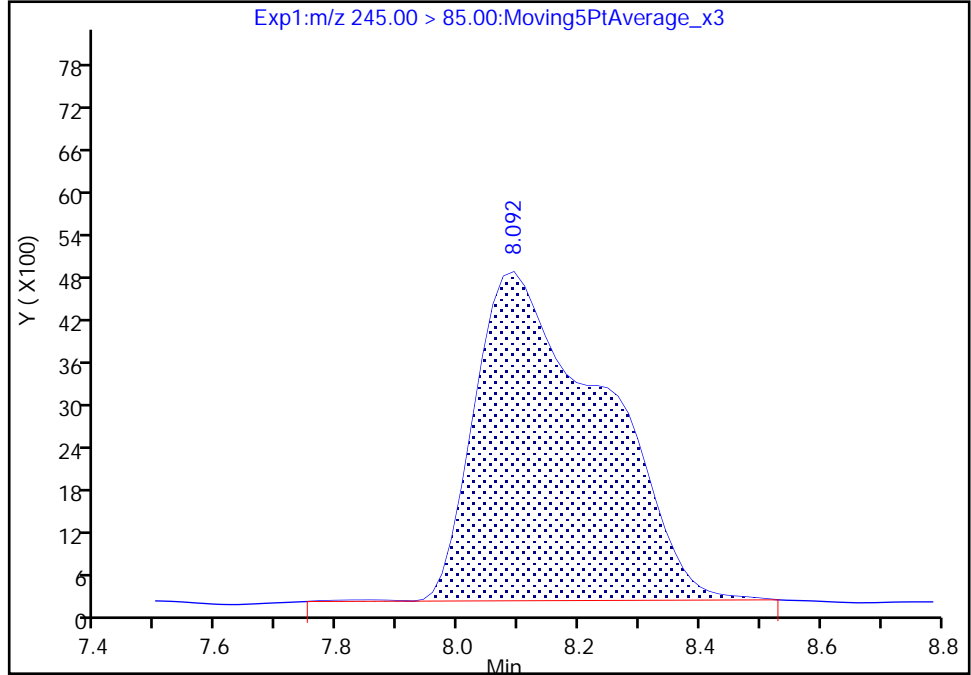
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Injection Date: 15-Dec-2020 20:47:07 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

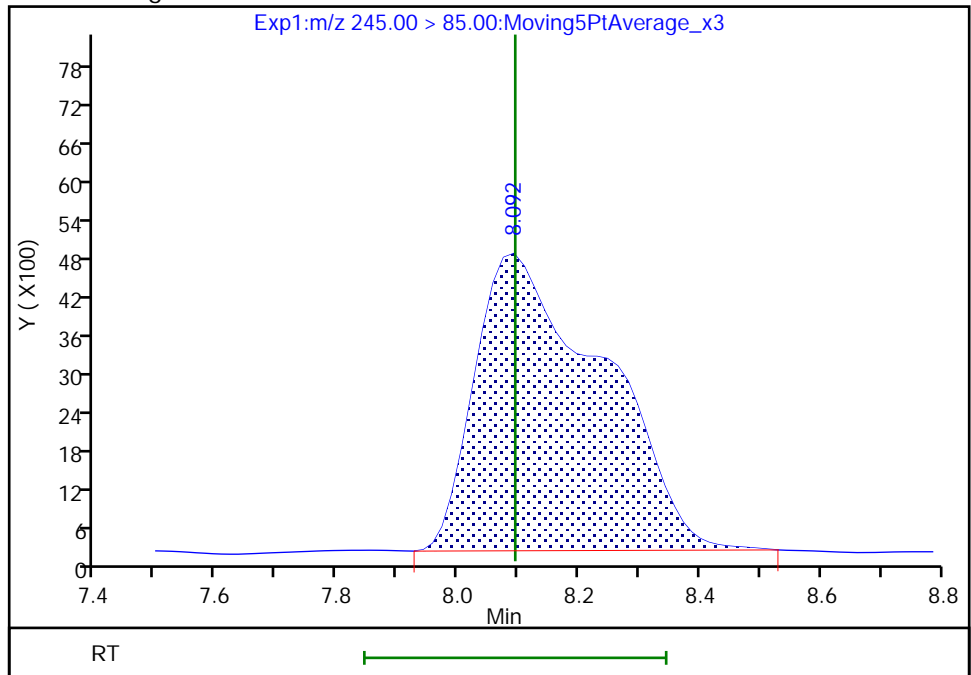
RT: 8.09  
Area: 68403  
Amount: 0.004932  
Amount Units: ng/ml

Processing Integration Results



RT: 8.09  
Area: 68300  
Amount: 0.004680  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:24:57  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 15-Dec-2020 21:04:43 ALS Bottle#: 7 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (41)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:04:09 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:26:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.785	2.785	0.0		118183	0.009564		95.6	293	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		48470	0.009646		96.5	876	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		24062	0.009423		94.2	594	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.859	6.860	-0.001		109182	0.009590		95.9	2236	M
5 PMPA										
229.00 > 185.00	6.885	6.885	0.0		109924	0.009567		95.7	115	
6 NVHOS										M
297.00 > 135.00	7.470	7.457	0.013		154419	0.009646		96.5	1672	M
7 PFO2HxA										
245.00 > 85.00	8.092	8.094	-0.002		142610	0.009773		97.7	912	
8 PEPA										
278.90 > 234.90	8.744	8.739	0.005		91722	0.009656		96.6	405	
9 PES										
314.90 > 135.00	9.071	9.044	0.027		859891	0.009794		97.9	18462	
10 PFECA B										
295.00 > 201.00	9.286	9.279	0.007		110038	0.0103		103	3823	
11 PFO3OA										
310.90 > 85.00	9.531	9.516	0.015		121134	0.0099		99.4	1544	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.641	9.599	0.042		1224836	0.2485		99.4	35436	
13 HPFO-DA										
285.00 > 169.00	9.641	9.627	0.015	1.000	55790	0.0100		100	1639	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.000	9.957	0.043		1058898	0.009895		98.9	24035	
16 Hydro-EVE Acid										
427.00 > 282.90	10.028	10.013	0.015		552501	0.009632		96.3	8712	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.028	10.013	0.015	1.000	248784	0.009554	Target=0.00	95.5	4558	
363.00 > 169.00	10.028	10.013	0.015	1.000	150143		1.66(0.00-0.00)	95.5	3440	
D 15 13C4 PFHpA										
367.00 > 322.00	10.028	10.013	0.015		6138902	0.2701		108	187657	
17 Hydro-PS Acid										
463.00 > 262.90	10.081	10.042	0.039		369602	0.0103		103	9404	
19 PFECA G										
378.90 > 184.90	10.155	10.145	0.010		253267	0.0100		100	8275	
20 PFO4DA										
376.90 > 85.00	10.304	10.269	0.035		137749	0.0102		102	1376	
21 PS Acid										
443.00 > 146.90	10.378	10.344	0.034		177794	0.0108		108	5916	
22 EVE Acid										
407.00 > 262.90	10.378	10.344	0.034		589903	0.0107		107	19475	
23 TAF										
442.90 > 85.00	10.863	10.847	0.015		33386	0.009318		93.2	107	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00041

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d

Injection Date: 15-Dec-2020 21:04:43

Instrument ID: A7\_N

Lims ID: IC STD 4

Client ID:

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

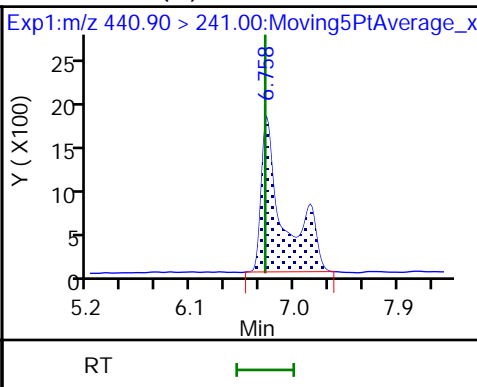
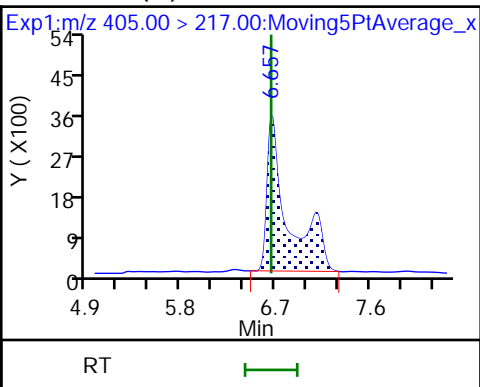
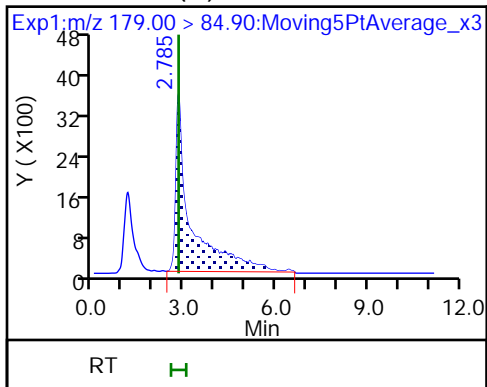
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

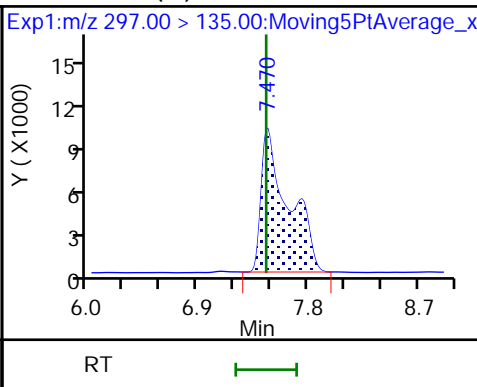
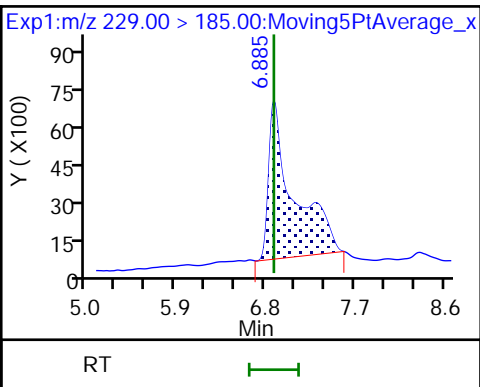
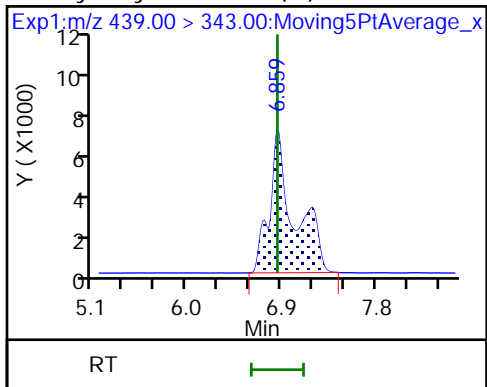
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA

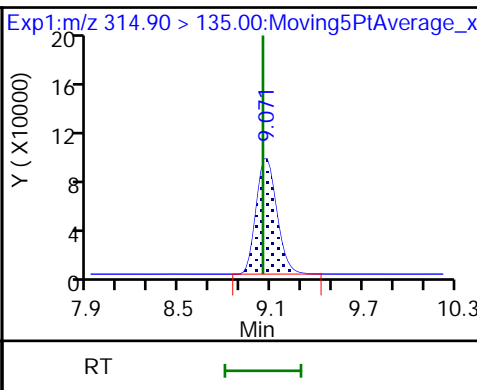
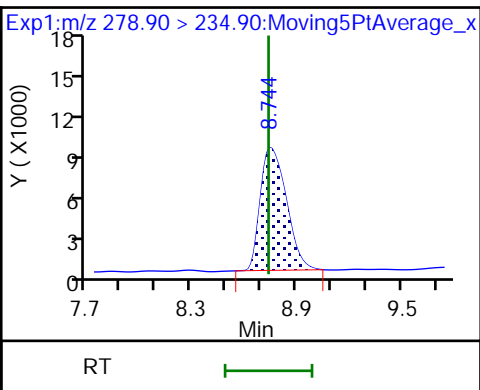
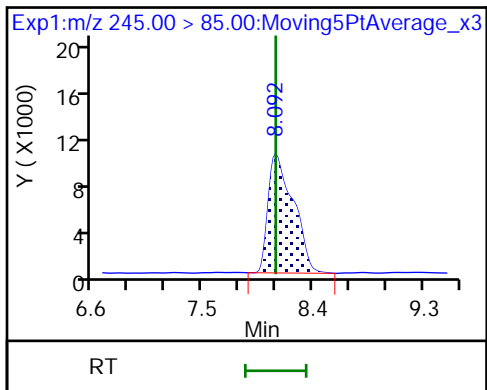
6 NVHOS (M)



7 PFO2HxA

8 PEPA

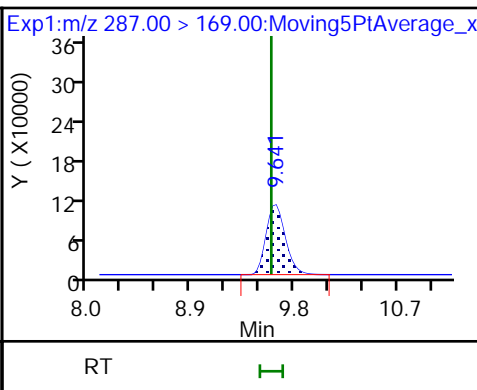
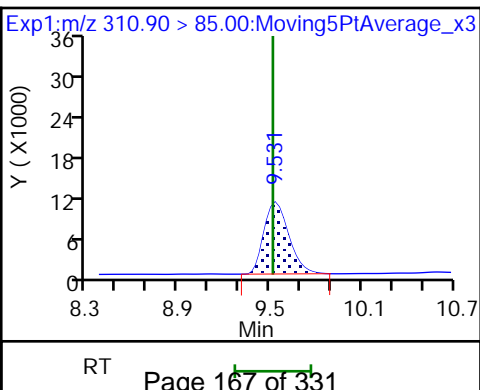
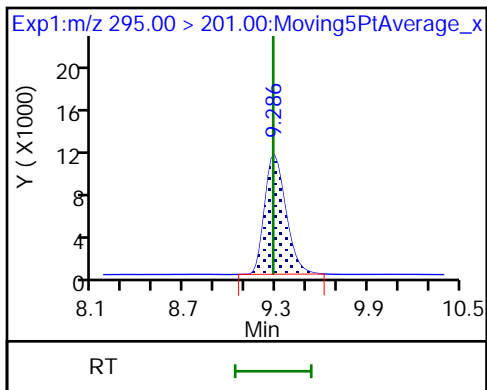
9 PES

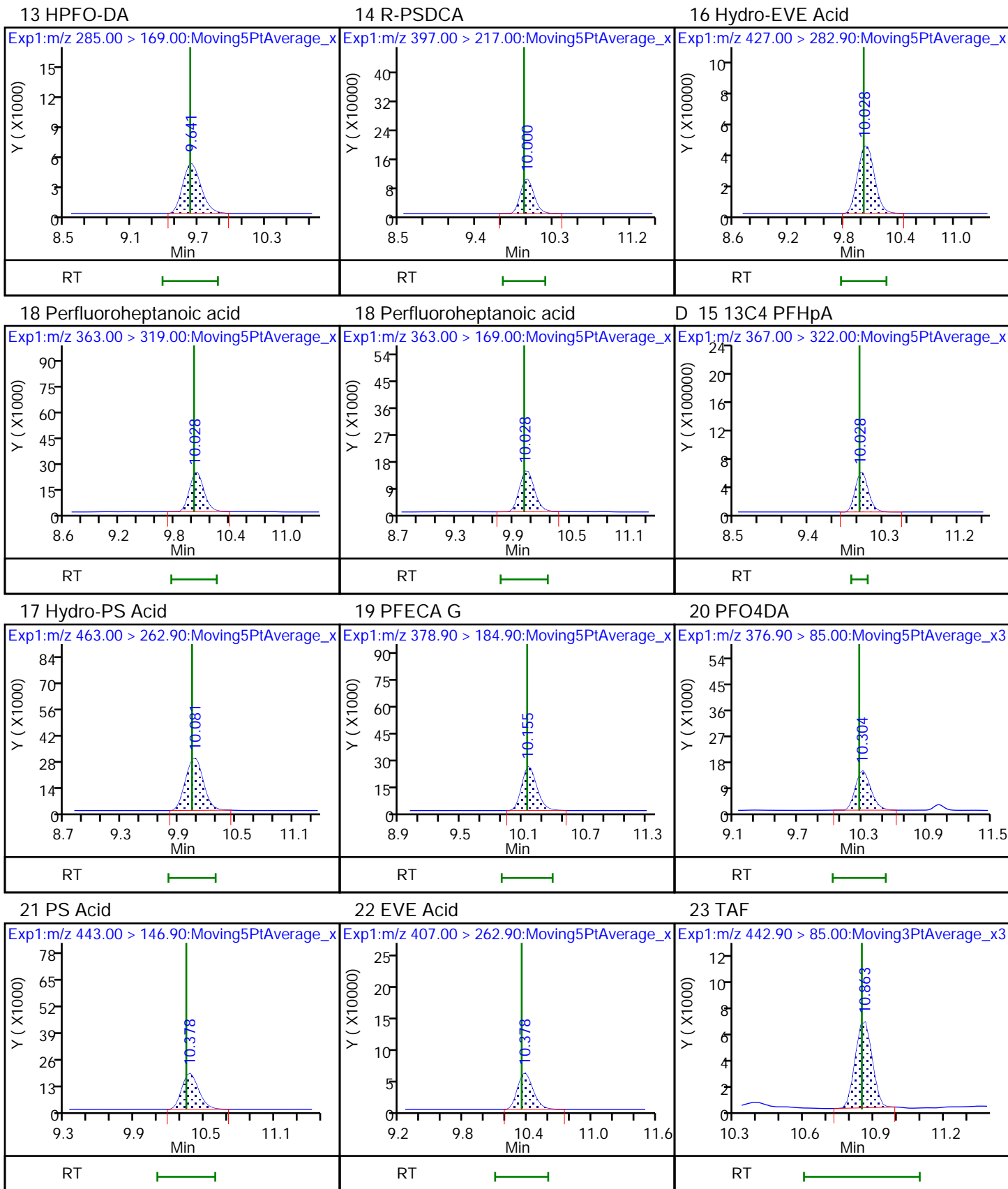


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

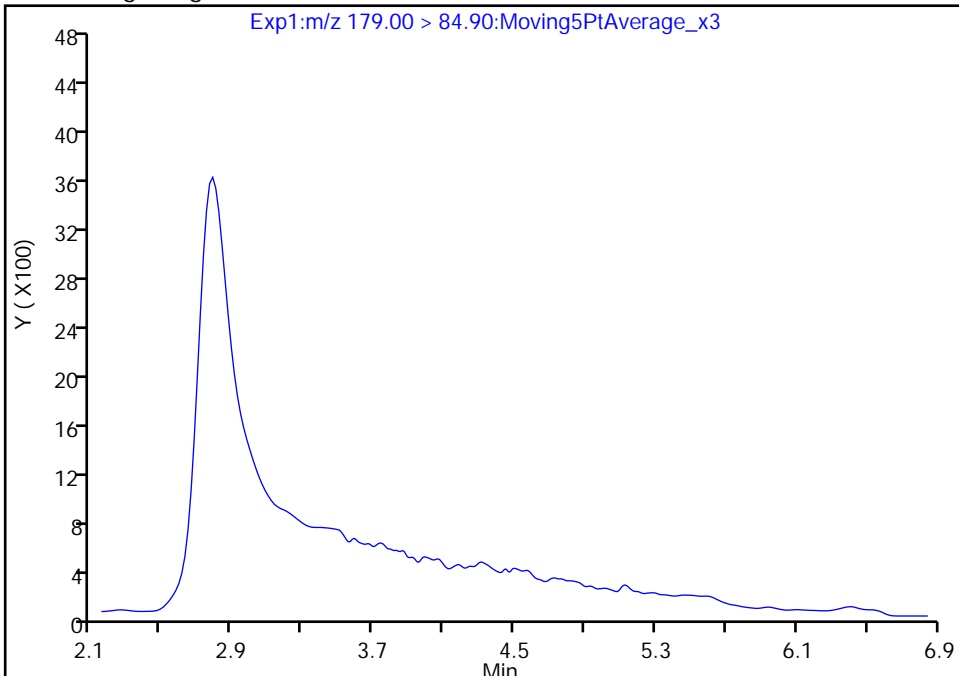
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

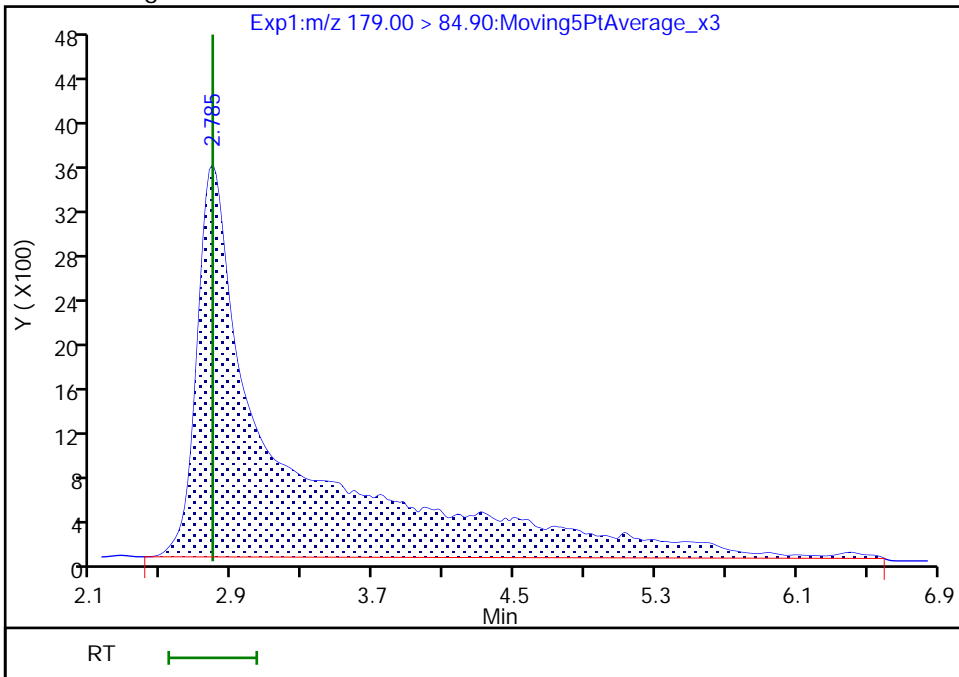
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.79  
Area: 118183  
Amount: 0.009564  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

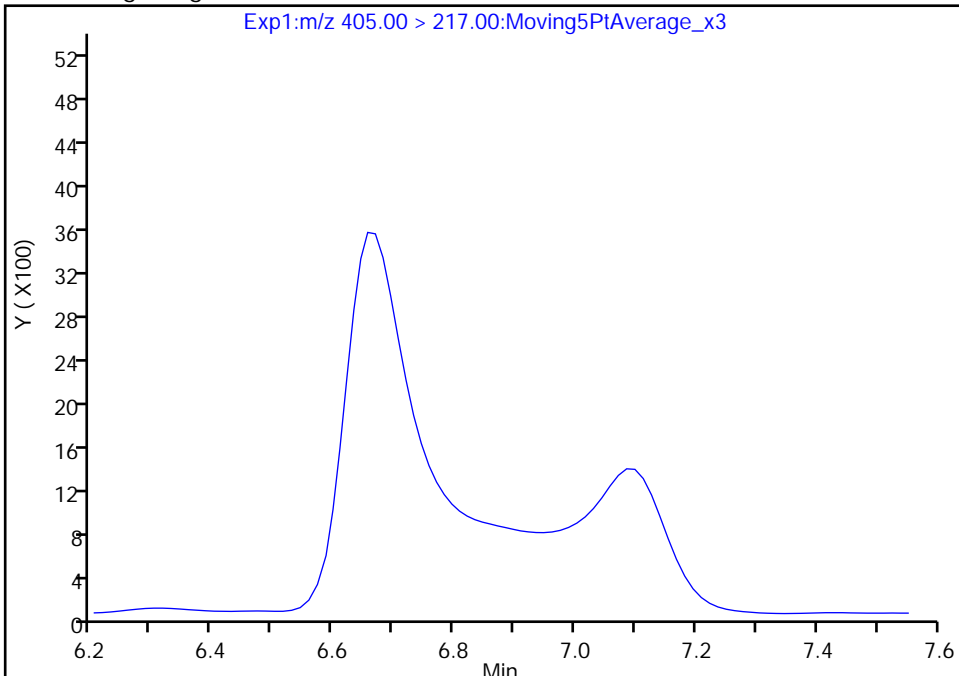
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

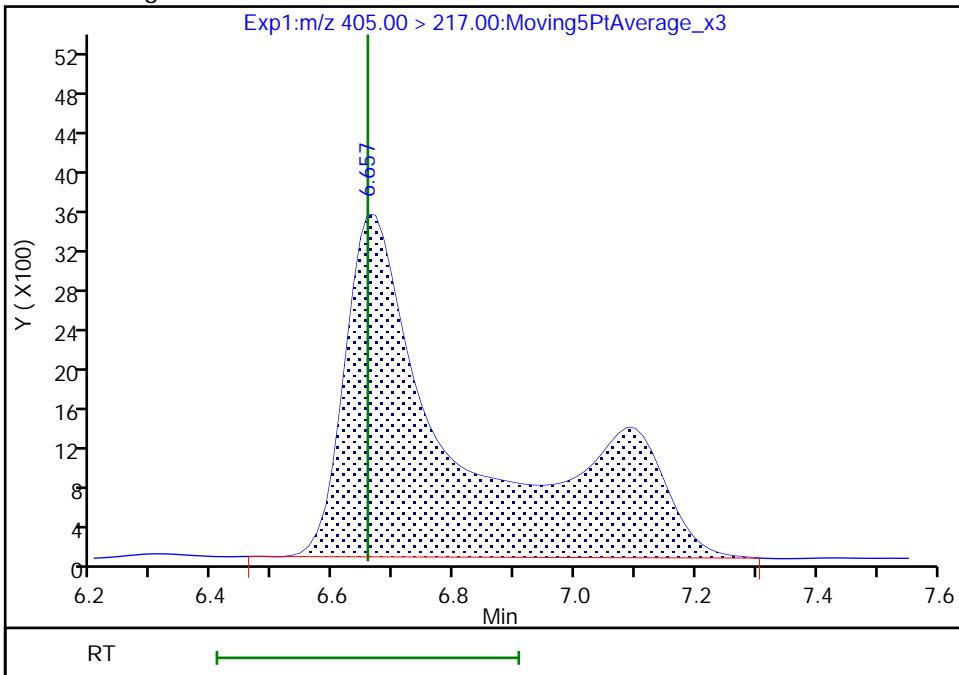
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.66  
Area: 48470  
Amount: 0.009646  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:25:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

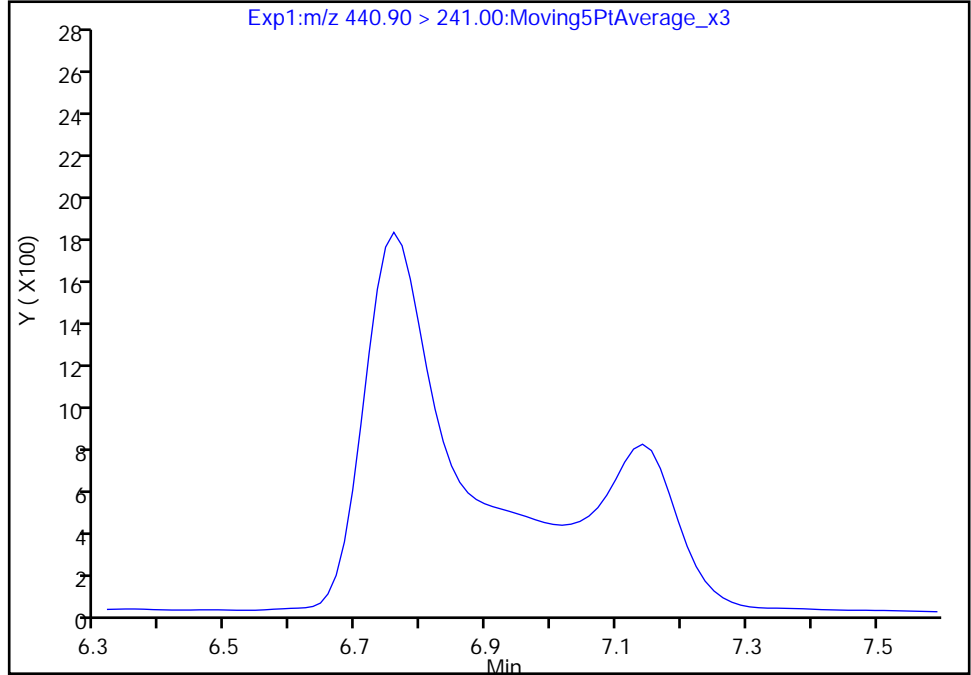
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

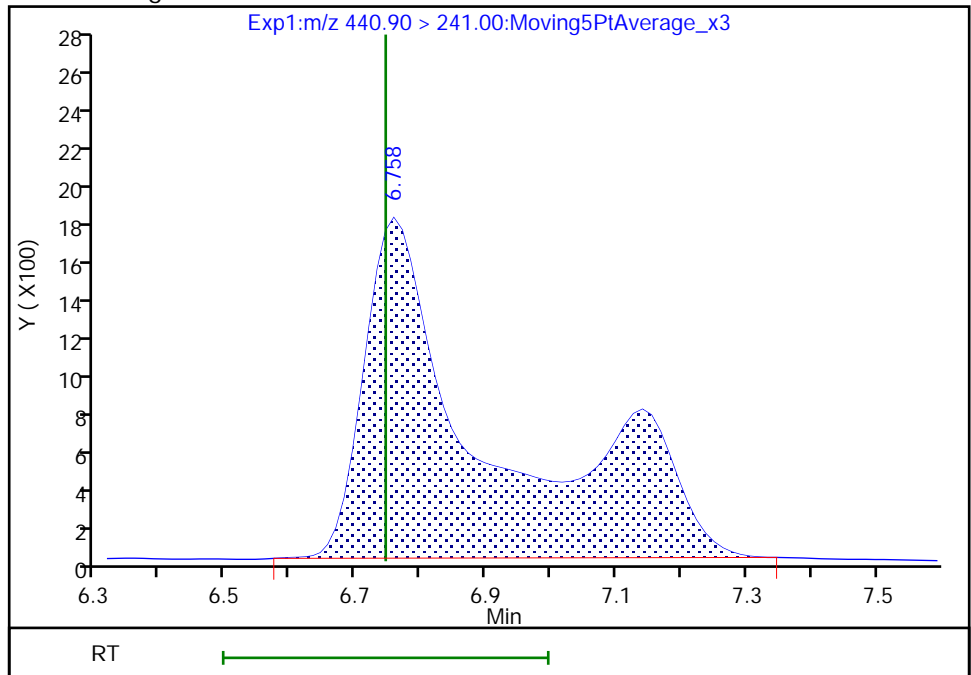
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.76  
Area: 24062  
Amount: 0.009423  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:25:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

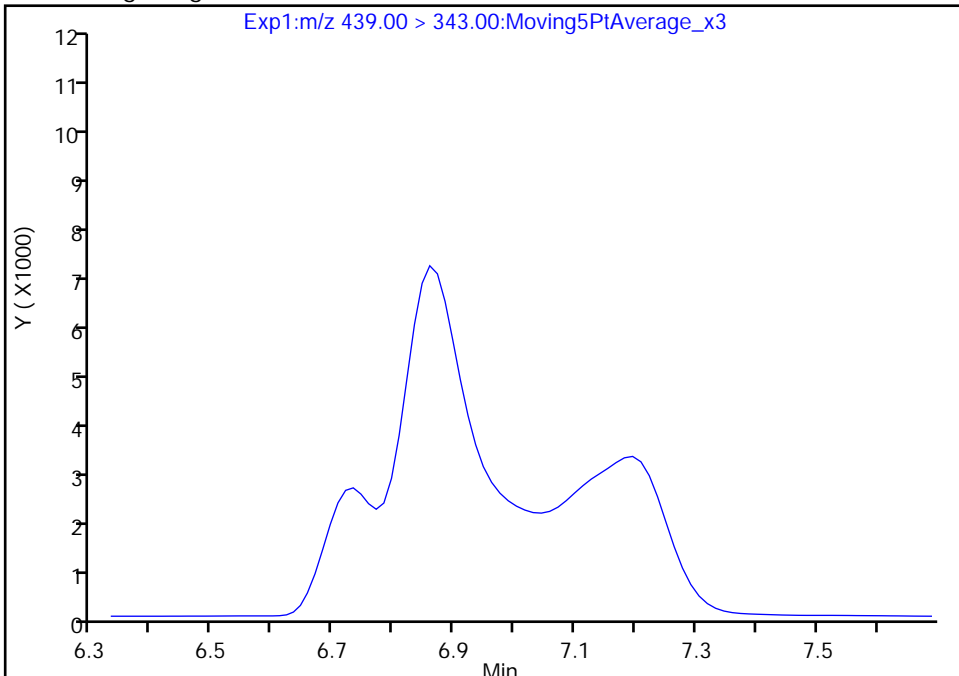
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_007.d  
Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

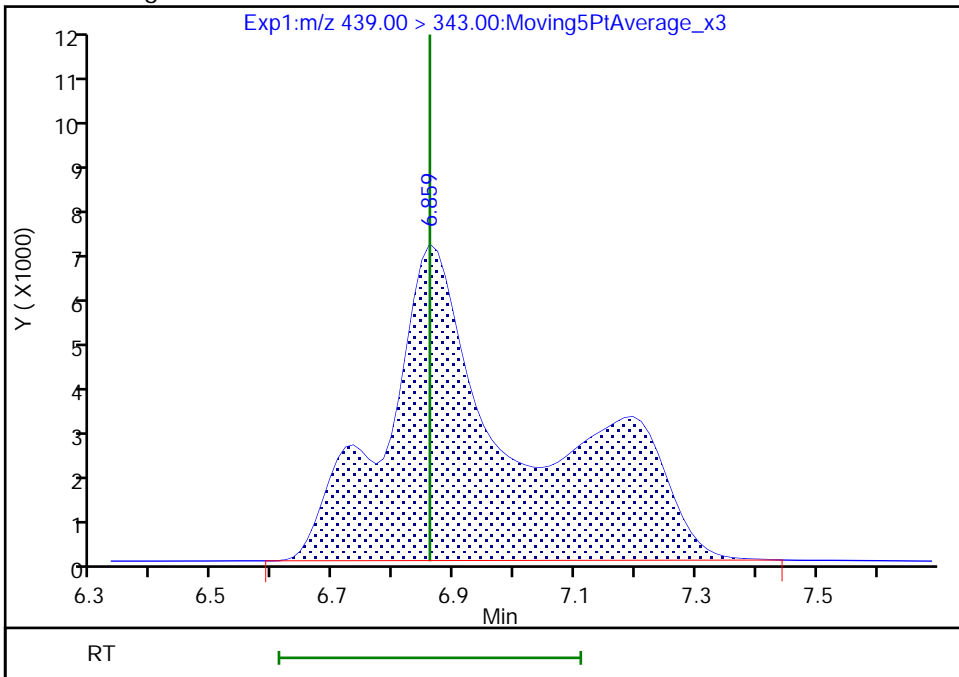
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 109182  
Amount: 0.009590  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

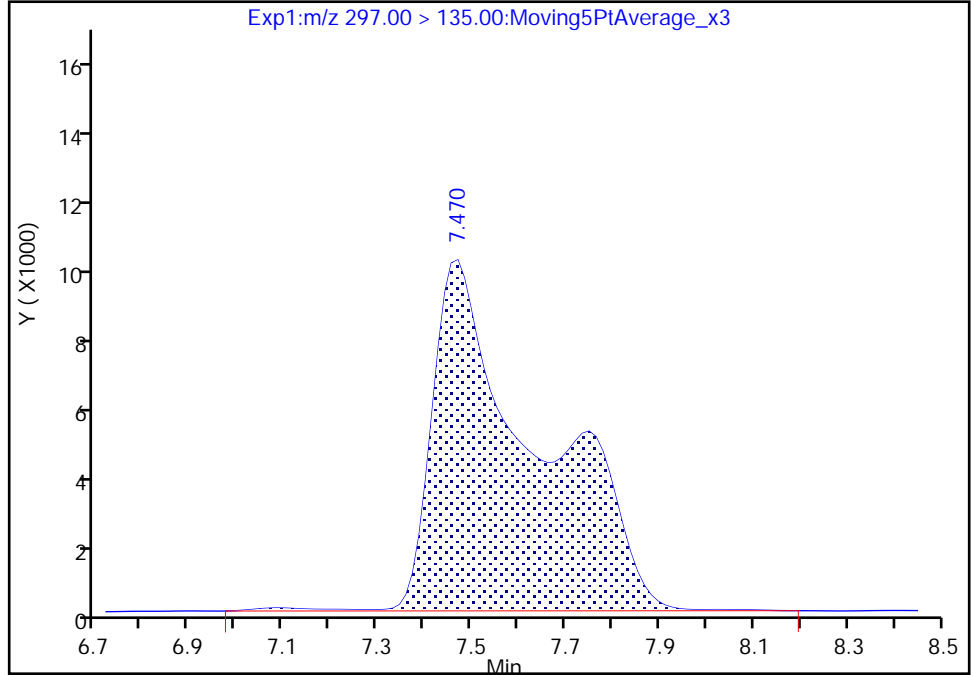
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Injection Date: 15-Dec-2020 21:04:43 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

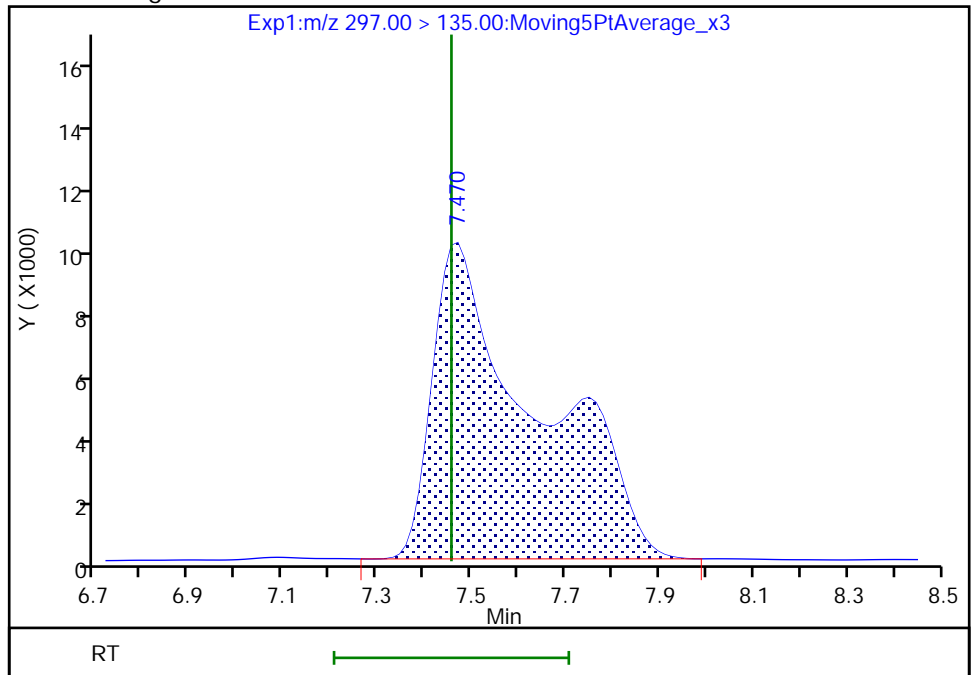
RT: 7.47  
Area: 156852  
Amount: 0.012758  
Amount Units: ng/ml

Processing Integration Results



RT: 7.47  
Area: 154419  
Amount: 0.009646  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 15-Dec-2020 21:22:18 ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (51  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:14 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:38:05

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.803	2.785	0.018		286892	0.0232		92.9	791	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		129927	0.0259		103	2392	M
3 R-PSDA										M
440.90 > 241.00	6.758	6.746	0.012		61642	0.0241		96.6	1457	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.860	6.860	0.0		285958	0.0251		100	5709	M
5 PMPA										
229.00 > 185.00	6.898	6.885	0.013		282506	0.0246		98.4	296	
6 NVHOS										M
297.00 > 135.00	7.471	7.457	0.014		400267	0.0250		100	4289	M
7 PFO2HxA										M
245.00 > 85.00	8.092	8.094	-0.002		369085	0.0253		101	2173	M
8 PEPA										
278.90 > 234.90	8.753	8.739	0.014		237946	0.0250		100	1124	
9 PES										
314.90 > 135.00	9.062	9.044	0.018		2196487	0.0250		100	47173	
10 PFECA B										
295.00 > 201.00	9.276	9.279	-0.003		280903	0.0263		105	9933	
11 PFO3OA										
310.90 > 85.00	9.514	9.516	-0.002		283125	0.0232		92.9	4221	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.624	9.599	0.025		1245930	0.2528		101	36596	
13 HPFO-DA										
285.00 > 169.00	9.624	9.627	-0.002	1.000	142656	0.0252		101	4207	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		2904319	0.0271		109	65677	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		1421503	0.0248		99.1	22364	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	633489	0.0262	Target=0.00	105	9694	
363.00 > 169.00	10.039	10.013	0.026	1.000	380034		1.67(0.00-0.00)	105	8739	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5909032	0.2600		104	180739	
17 Hydro-PS Acid										
463.00 > 262.90	10.066	10.042	0.024		895275	0.0251		100	22180	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		670411	0.0265		106	21725	
20 PFO4DA										
376.90 > 85.00	10.290	10.269	0.021		343798	0.0255		102	3379	
21 PS Acid										
443.00 > 146.90	10.365	10.344	0.021		407094	0.0246		98.5	10076	
22 EVE Acid										
407.00 > 262.90	10.365	10.344	0.021		1410907	0.0257		103	46409	
23 TAF										
442.90 > 85.00	10.855	10.847	0.008		94489	0.0264		105	332	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00051

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d

Injection Date: 15-Dec-2020 21:22:18

Instrument ID: A7\_N

Lims ID: IC STD 5

Client ID:

Operator ID: abservice

ALS Bottle#: 8

Worklist Smp#: 6

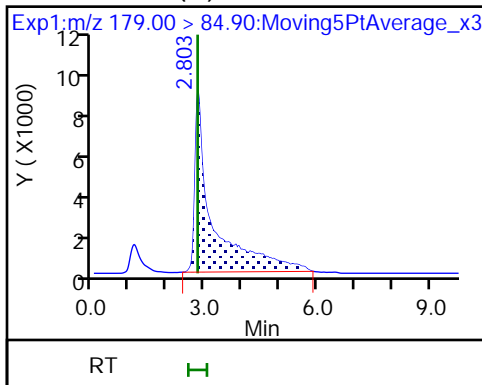
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

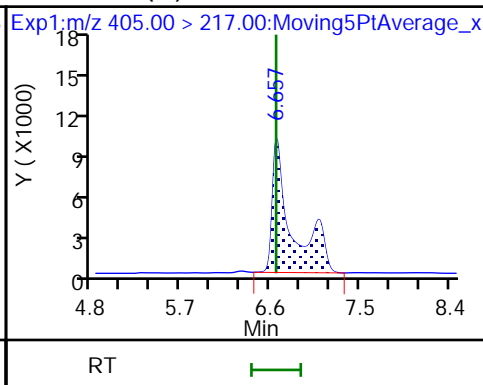
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

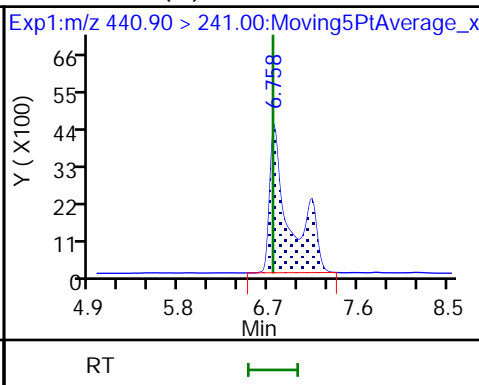
1 PFMOAA (M)



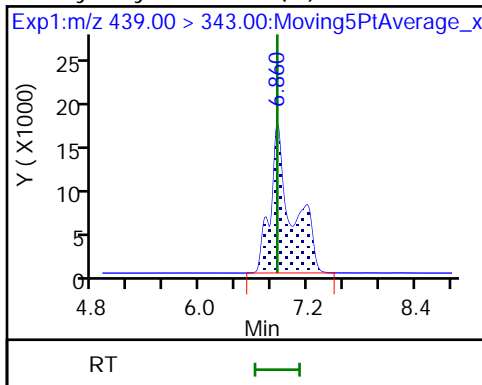
2 R-EVE (M)



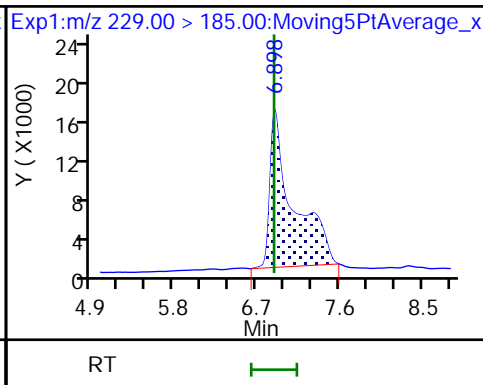
3 R-PSDA (M)



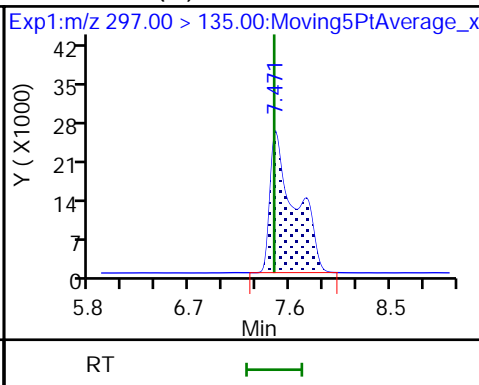
4 Hydrolyzed PSDA (M)



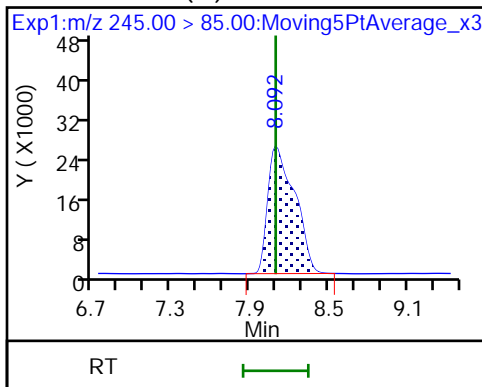
5 PMPA



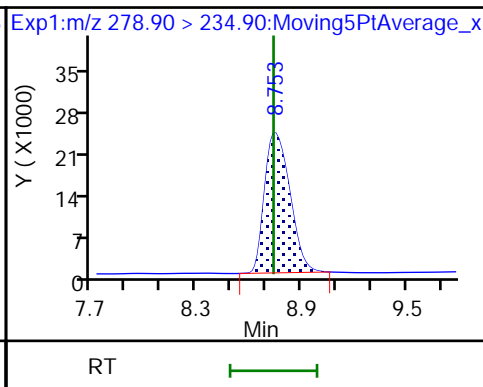
6 NVHOS (M)



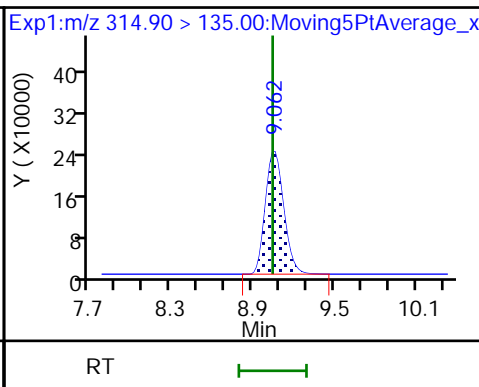
7 PFO2HxA (M)



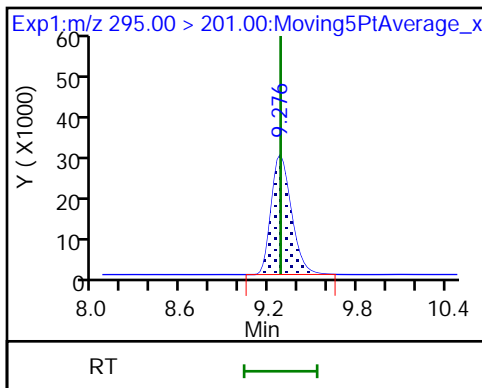
8 PEPA



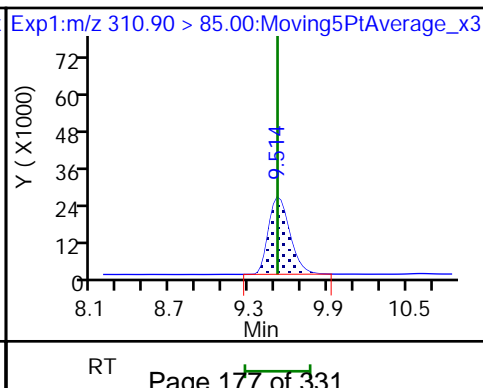
9 PES



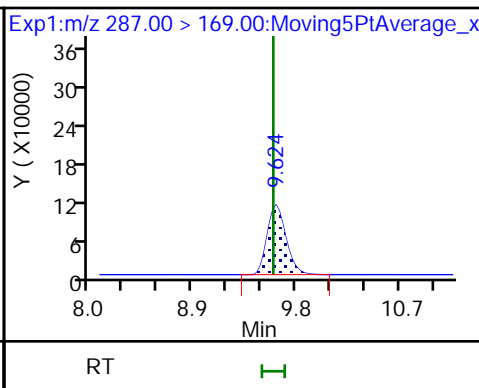
10 PFECA B

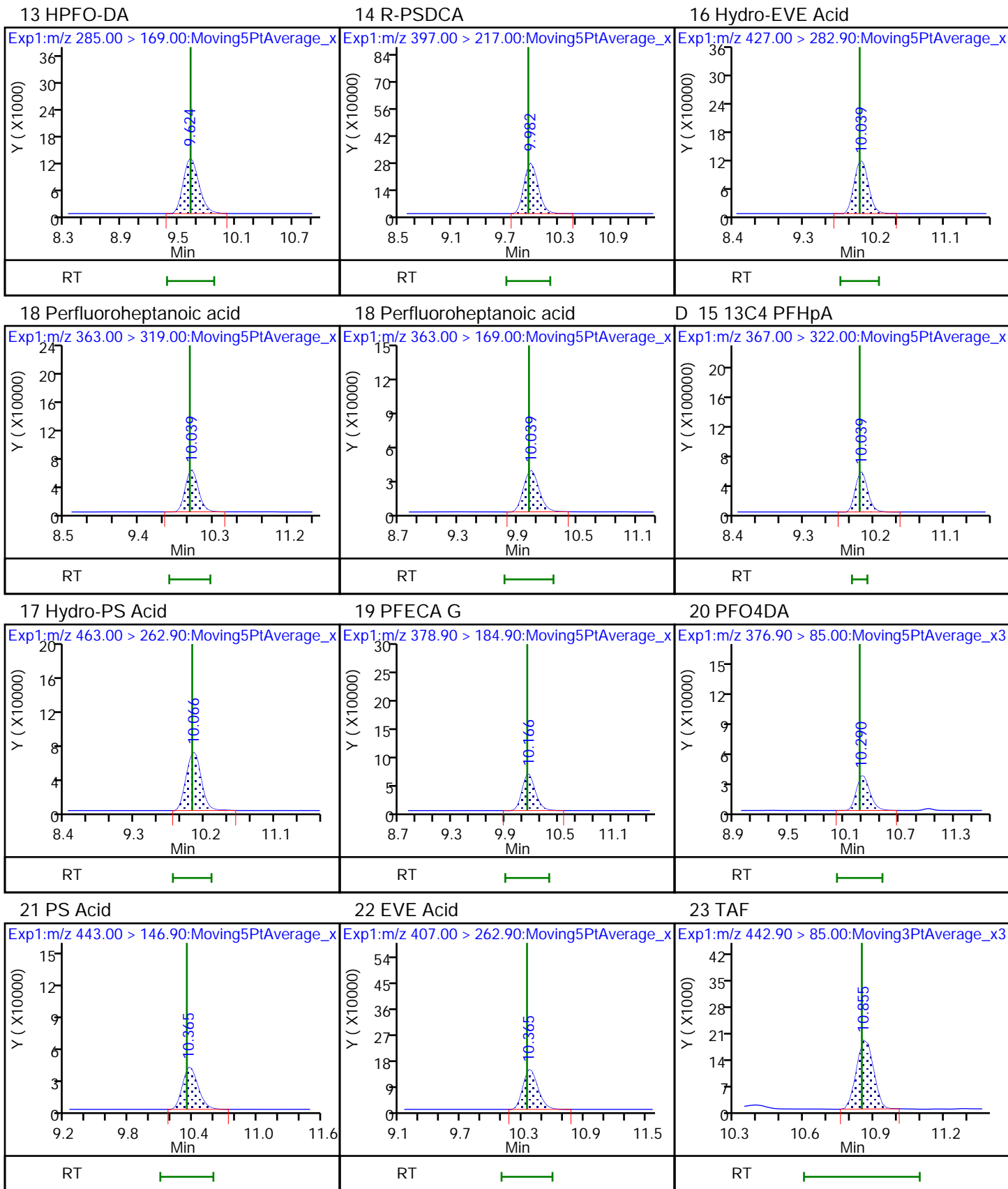


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

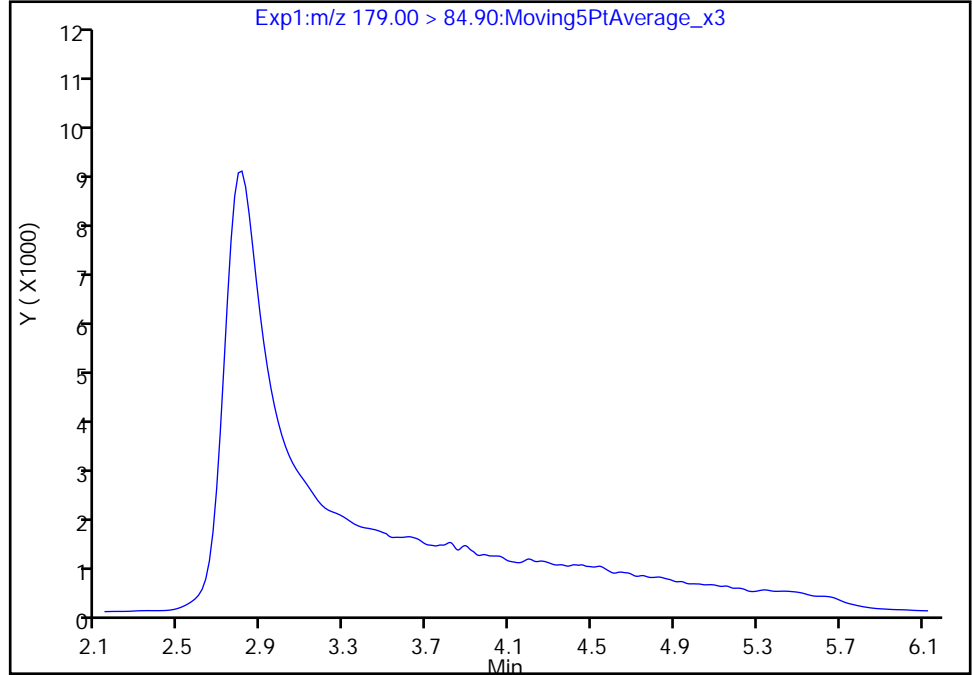
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Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

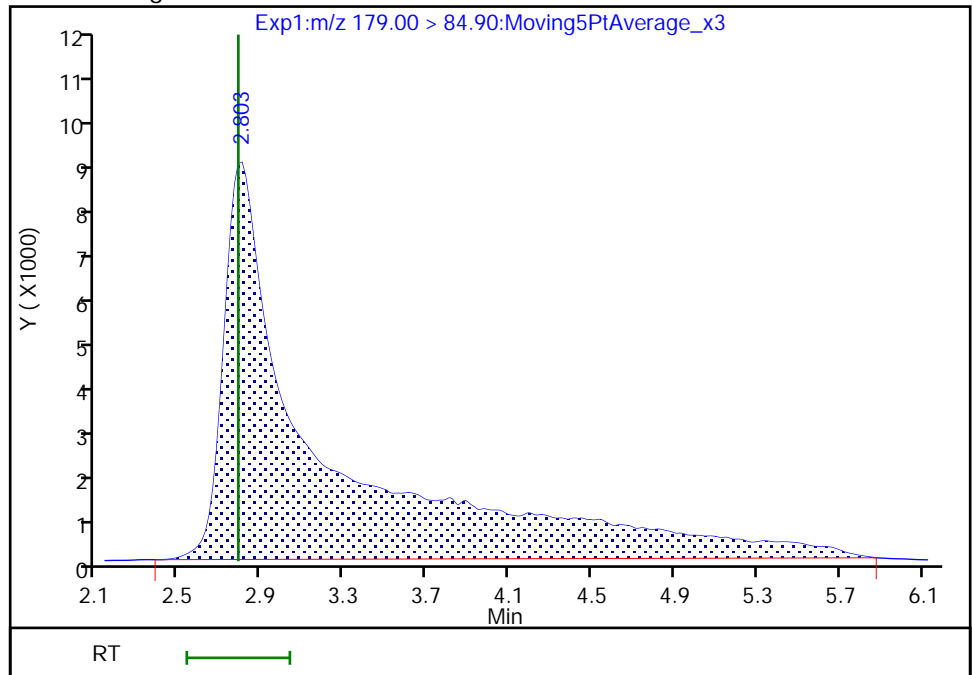
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.80  
Area: 286892  
Amount: 0.023218  
Amount Units: ng/ml





Eurofins TestAmerica, Sacramento

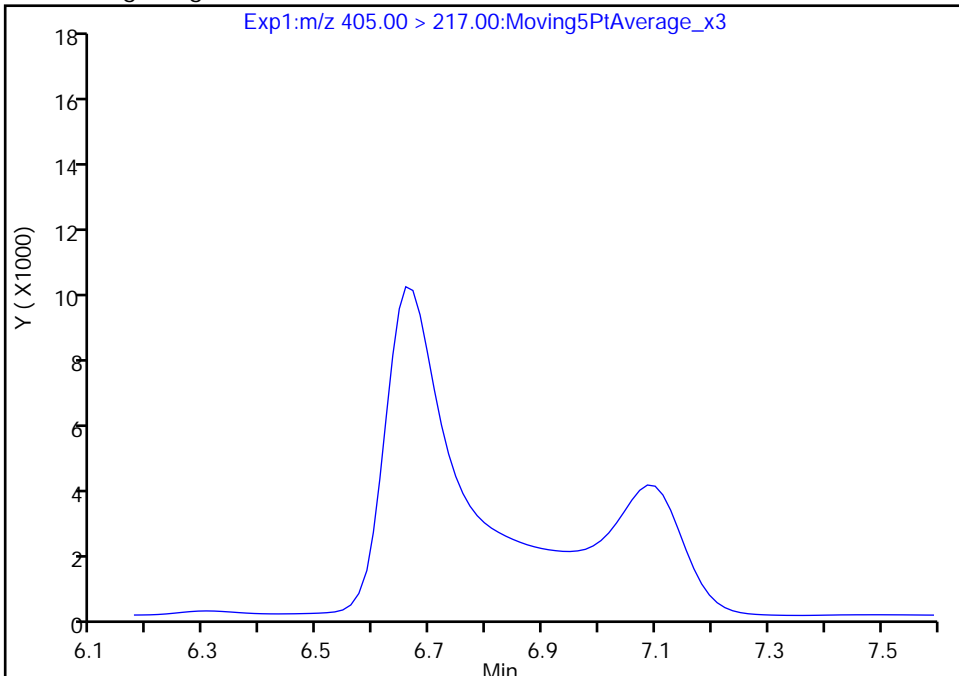
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

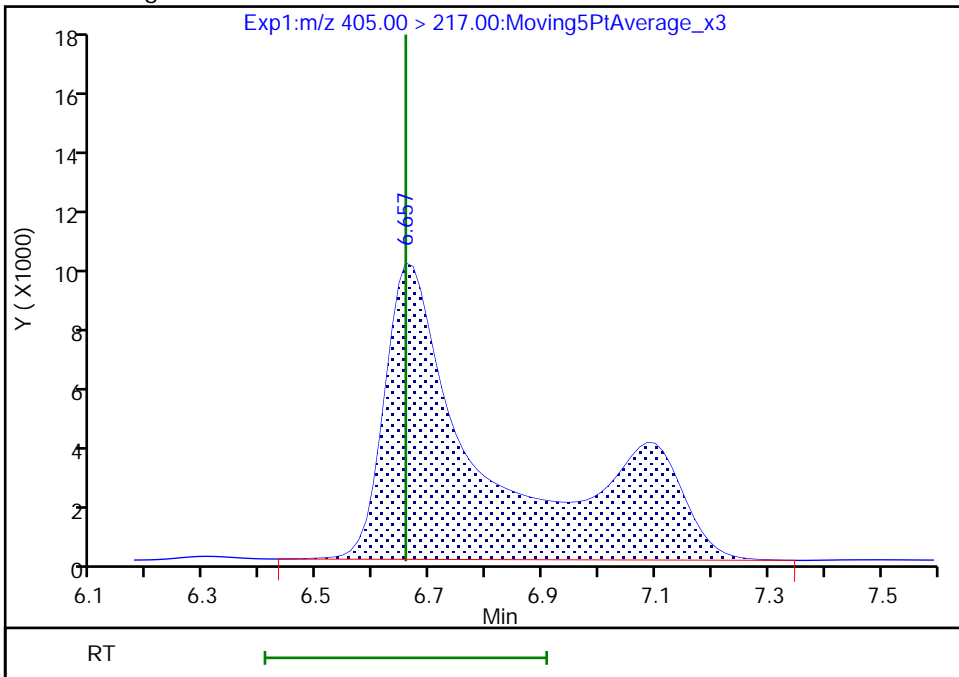
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.66  
Area: 129927  
Amount: 0.025856  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:44:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

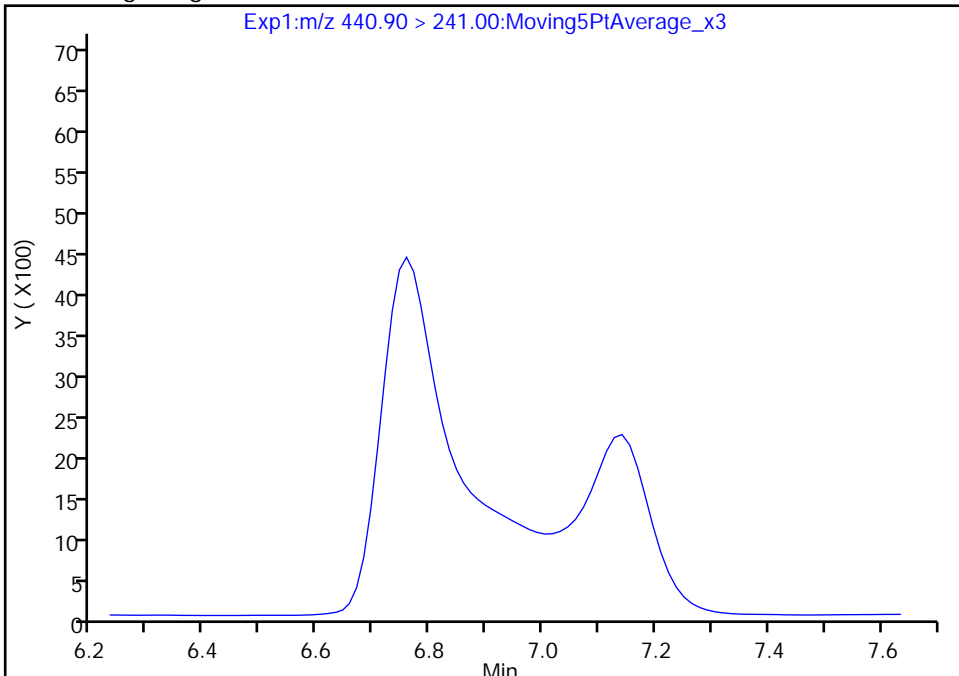
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
 Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
 Lims ID: IC STD 5  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

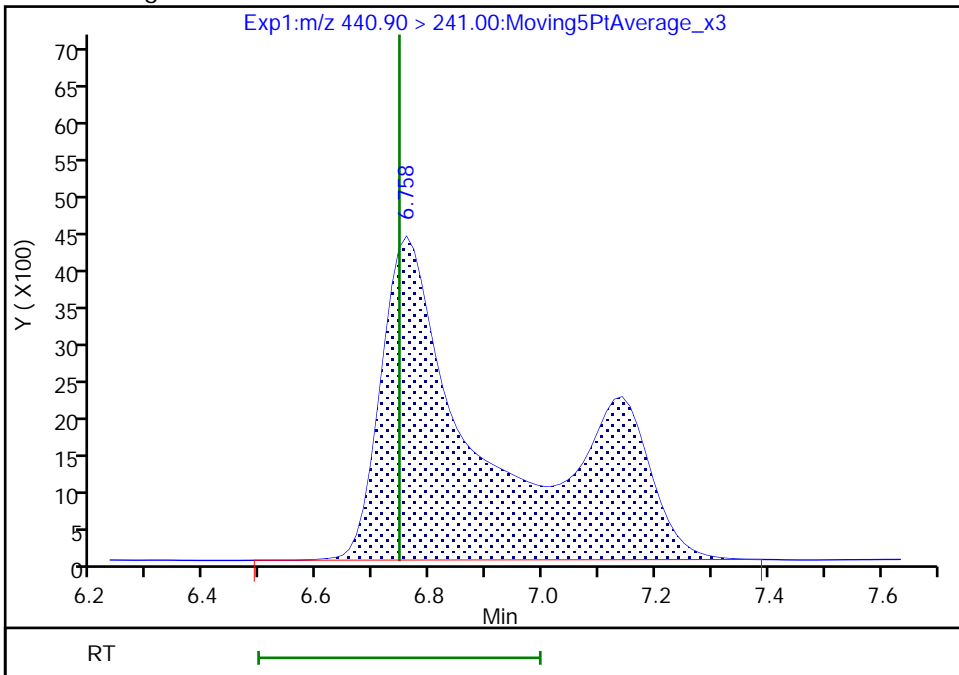
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.76  
 Area: 61642  
 Amount: 0.024139  
 Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 09:37:34  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

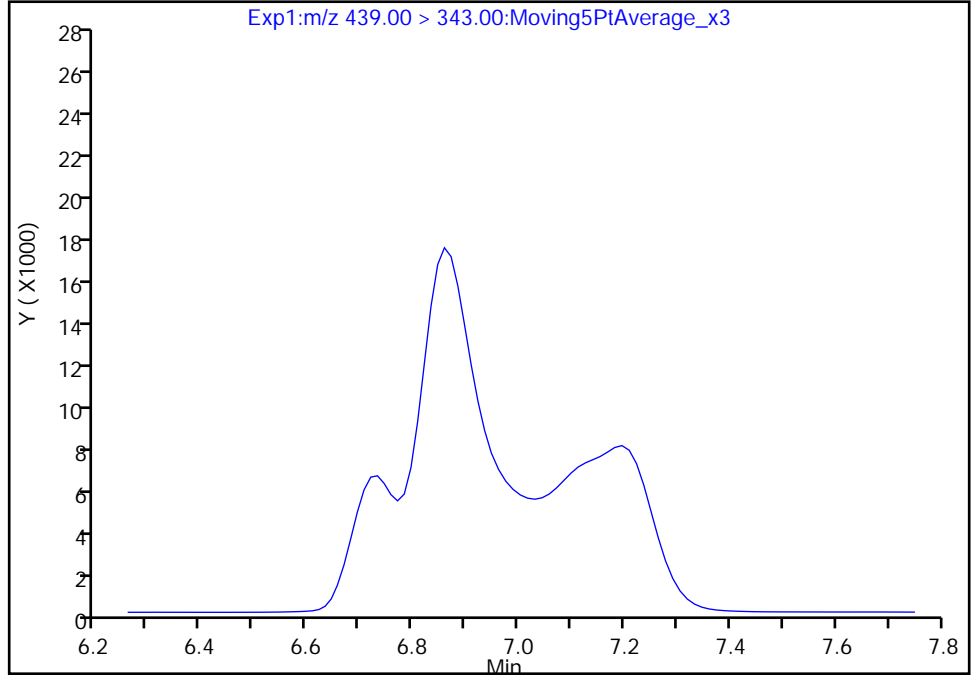
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

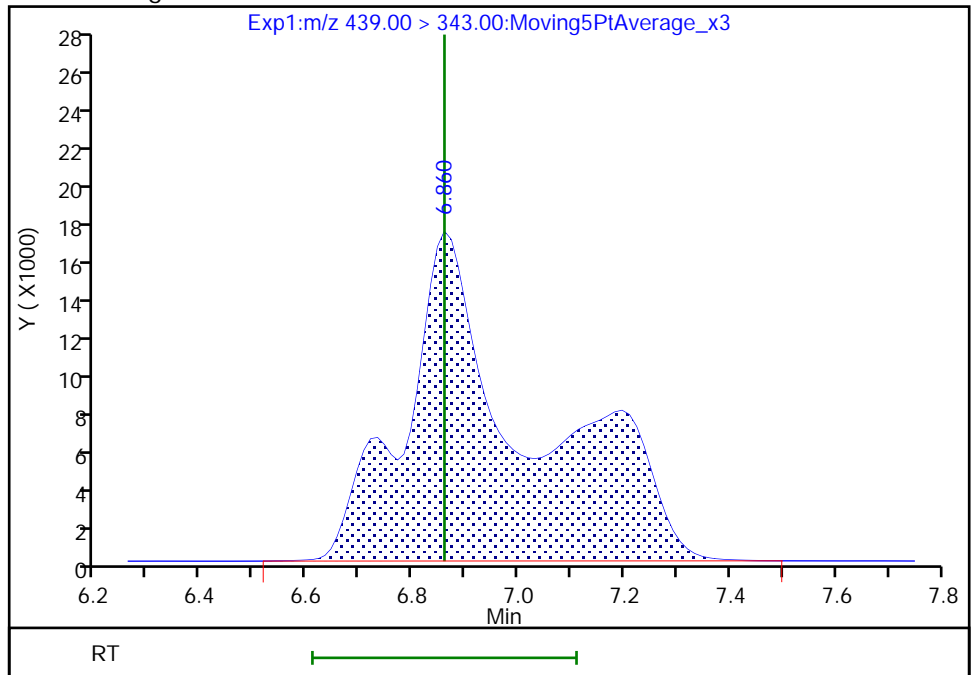
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 285958  
Amount: 0.025117  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

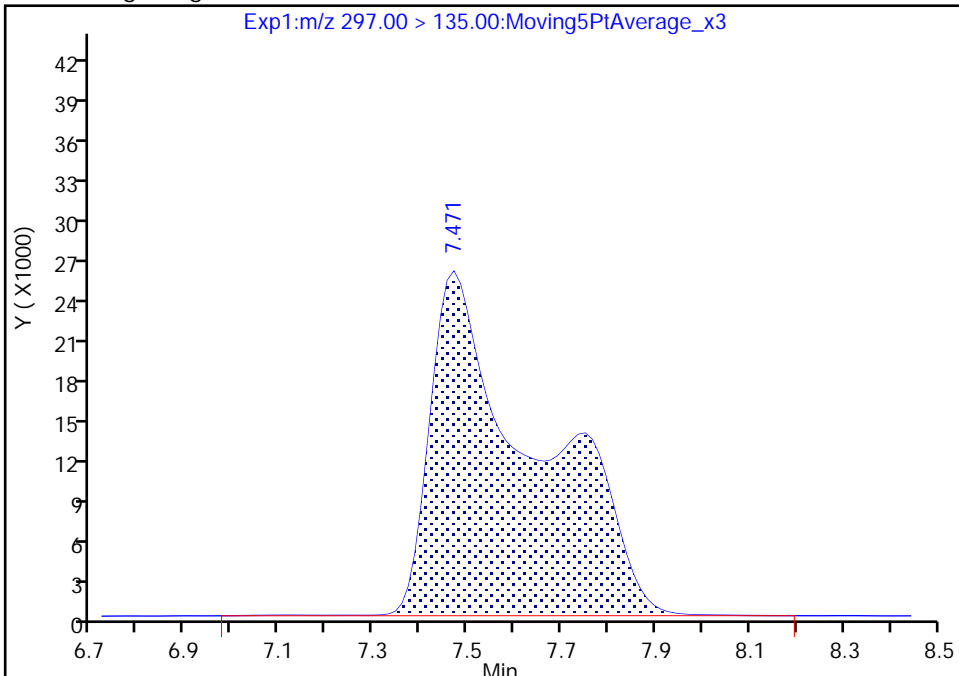
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Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

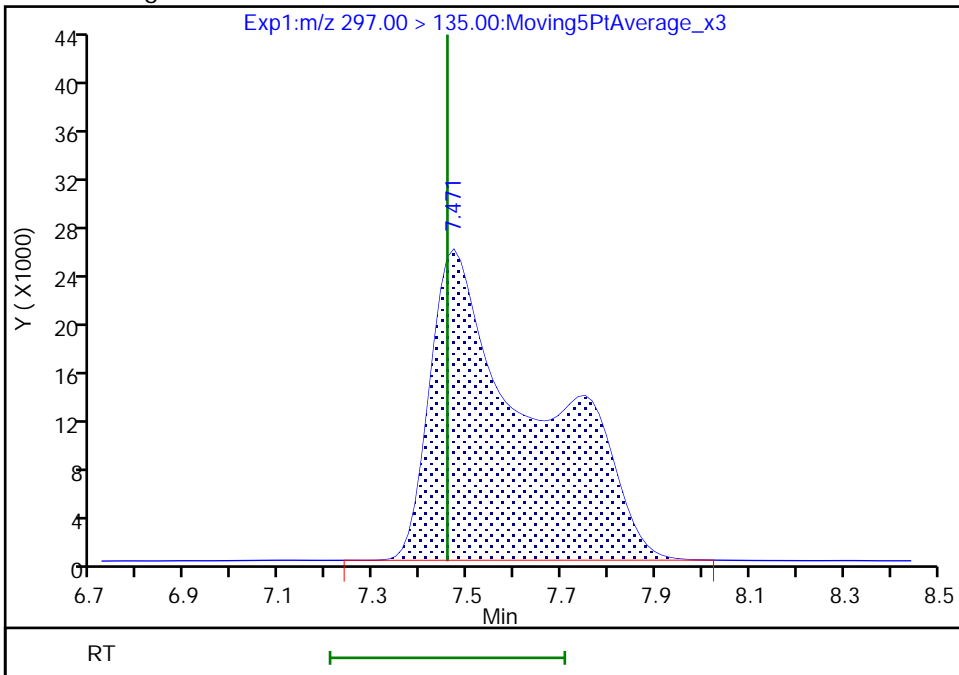
RT: 7.47  
Area: 402517  
Amount: 0.032806  
Amount Units: ng/ml

Processing Integration Results



RT: 7.47  
Area: 400267  
Amount: 0.025003  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:37:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

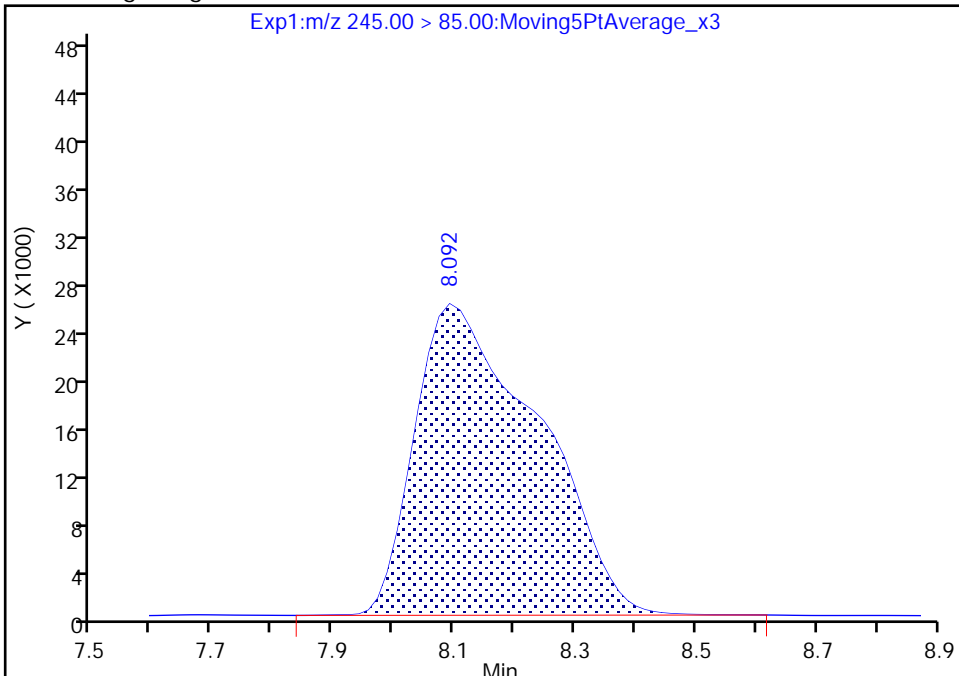
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_008.d  
Injection Date: 15-Dec-2020 21:22:18 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

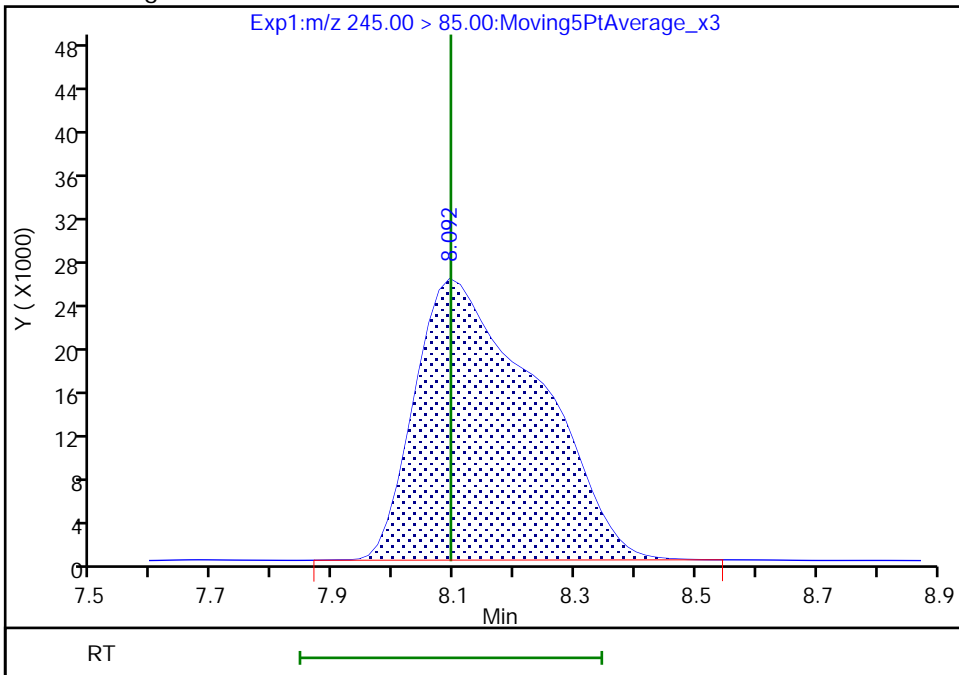
RT: 8.09  
Area: 369755  
Amount: 0.026664  
Amount Units: ng/ml

Processing Integration Results



RT: 8.09  
Area: 369085  
Amount: 0.025292  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:37:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 15-Dec-2020 21:39:54 ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (51  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:35 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:39:02

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.680	2.785	-0.105		621014	0.0503		101	1453	M
2 R-EVE										M
405.00 > 217.00	6.599	6.657	-0.058		271839	0.0541		108	4680	M
3 R-PSDA										M
440.90 > 241.00	6.695	6.746	-0.051		136730	0.0535		107	3048	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.809	6.860	-0.051		618080	0.0543		109	11513	M
5 PMPA										M
229.00 > 185.00	6.847	6.885	-0.038		599690	0.0522		104	508	M
6 NVHOS										M
297.00 > 135.00	7.443	7.457	-0.014		848428	0.0530		106	8682	M
7 PFO2HxA										M
245.00 > 85.00	8.075	8.094	-0.019		760425	0.0521		104	3949	M
8 PEPA										M
278.90 > 234.90	8.737	8.739	-0.002		502517	0.0529		106	1701	
9 PES										M
314.90 > 135.00	9.042	9.044	-0.002		4632908	0.0528		106	81739	
10 PFECA B										M
295.00 > 201.00	9.276	9.279	-0.003		571056	0.0535		107	19709	
11 PFO3OA										M
310.90 > 85.00	9.513	9.516	-0.003		672980	0.0552		110	8657	
D 12 13C3 HFPO-DA										M
287.00 > 169.00	9.624	9.599	0.025		1273217	0.2583		103	37289	
13 HPFO-DA										M
285.00 > 169.00	9.624	9.627	-0.002	1.000	302640	0.0523		105	8902	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.982	9.957	0.025		5790043	0.0541		108	104664	
16 Hydro-EVE Acid										
427.00 > 282.90	10.039	10.013	0.026		3092904	0.0539		108	40528	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.039	10.013	0.026	1.000	1282697	0.0555	Target=0.00	111	19577	
363.00 > 169.00	10.039	10.013	0.026	1.000	748067		1.71(0.00-0.00)	111	17119	
D 15 13C4 PFHpA										
367.00 > 322.00	10.039	10.013	0.026		5716892	0.2515		101	173777	
17 Hydro-PS Acid										
463.00 > 262.90	10.065	10.042	0.023		1863519	0.0522		104	45780	
19 PFECA G										
378.90 > 184.90	10.166	10.145	0.021		1264482	0.0500		100	40547	
20 PFO4DA										
376.90 > 85.00	10.290	10.269	0.021		794348	0.0590		118	7866	
21 PS Acid										
443.00 > 146.90	10.364	10.344	0.020		892902	0.0540		108	22147	
22 EVE Acid										
407.00 > 262.90	10.364	10.344	0.020		2947292	0.0537		107	72821	
23 TAF										
442.90 > 85.00	10.858	10.847	0.011		165558	0.0462		92.4	488	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00051

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d

Injection Date: 15-Dec-2020 21:39:54

Instrument ID: A7\_N

Lims ID: IC STD 6

Client ID:

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 7

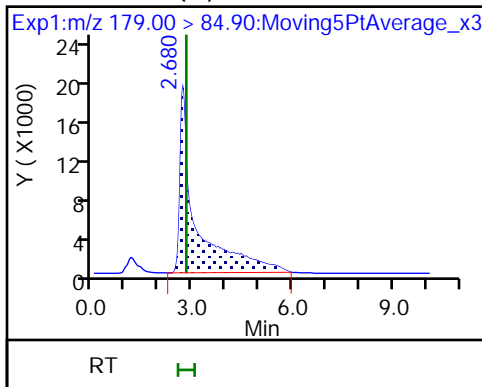
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

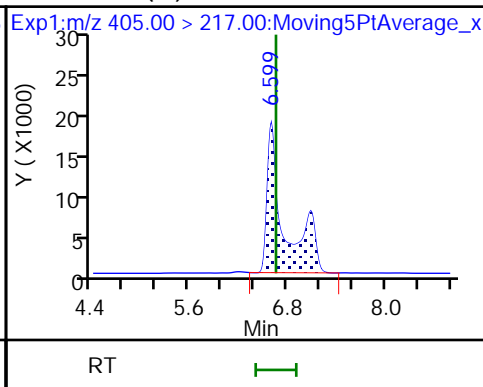
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

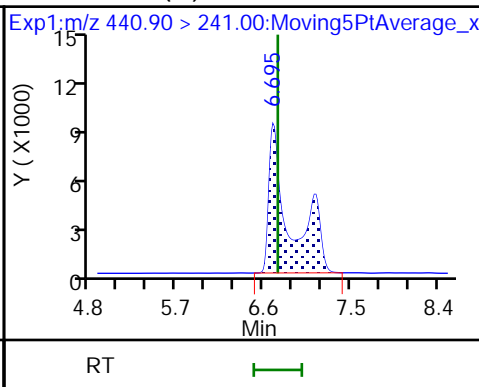
1 PFMOAA (M)



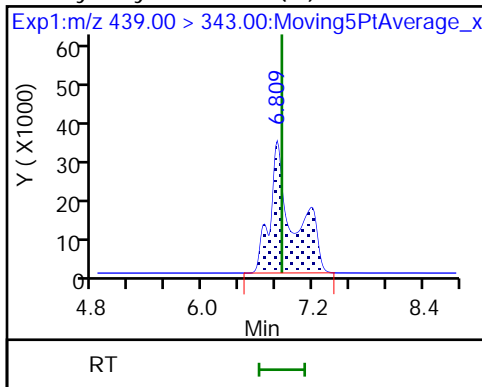
2 R-EVE (M)



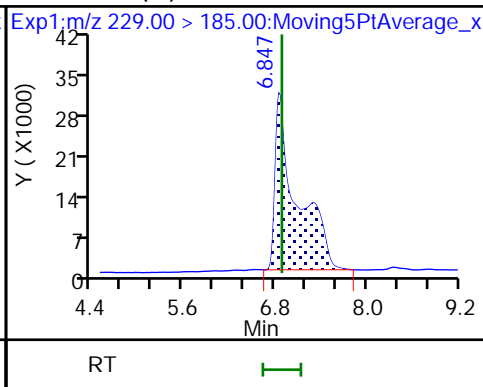
3 R-PSDA (M)



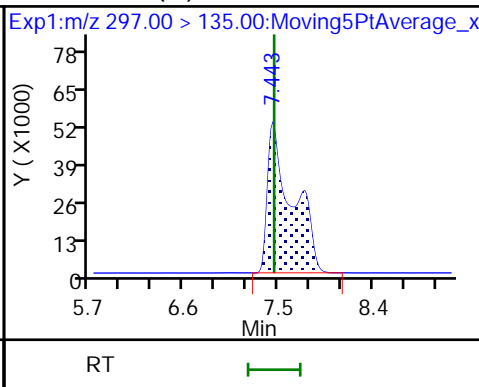
4 Hydrolyzed PSDA (M)



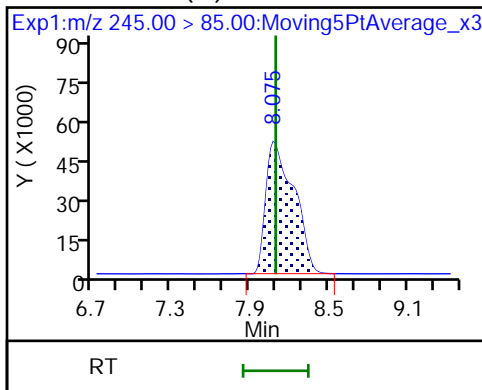
5 PMPA (M)



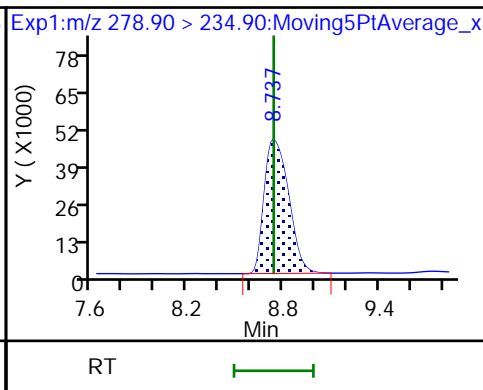
6 NVHOS (M)



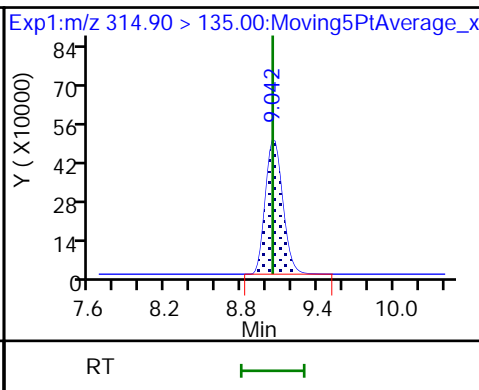
7 PFO2HxA (M)



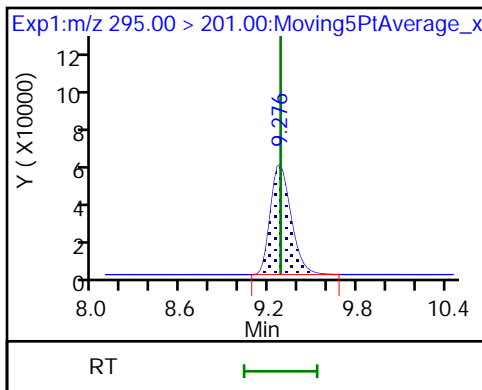
8 PEPA



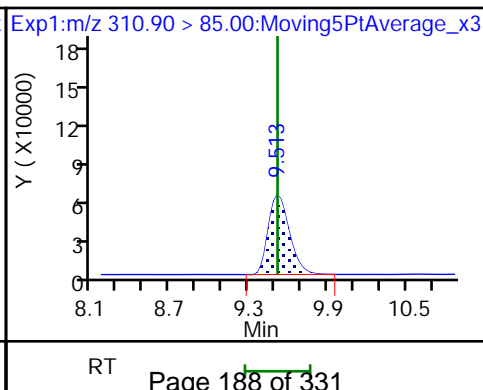
9 PES



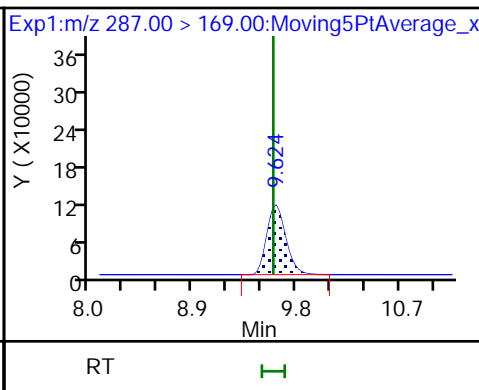
10 PFECA B



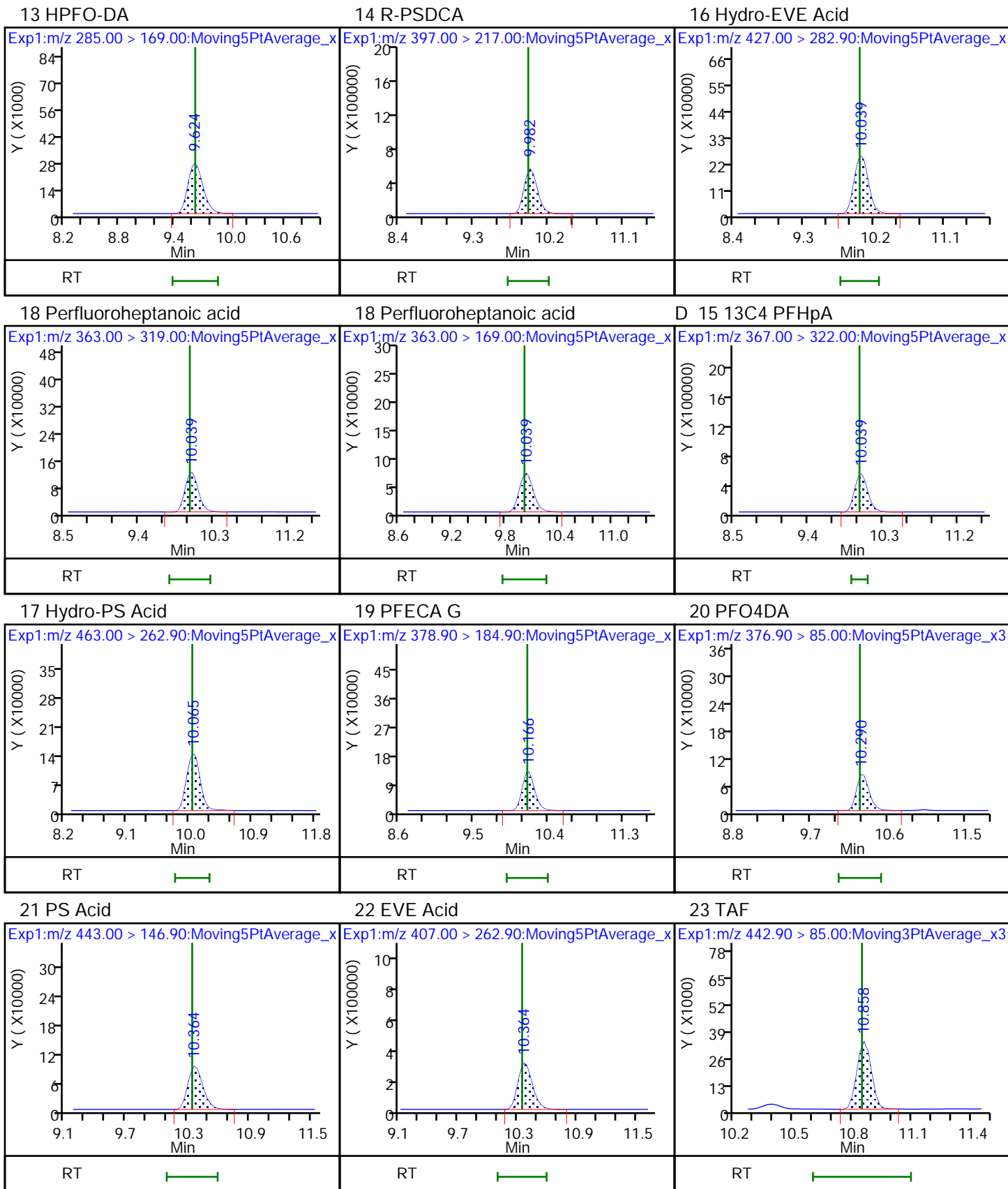
11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

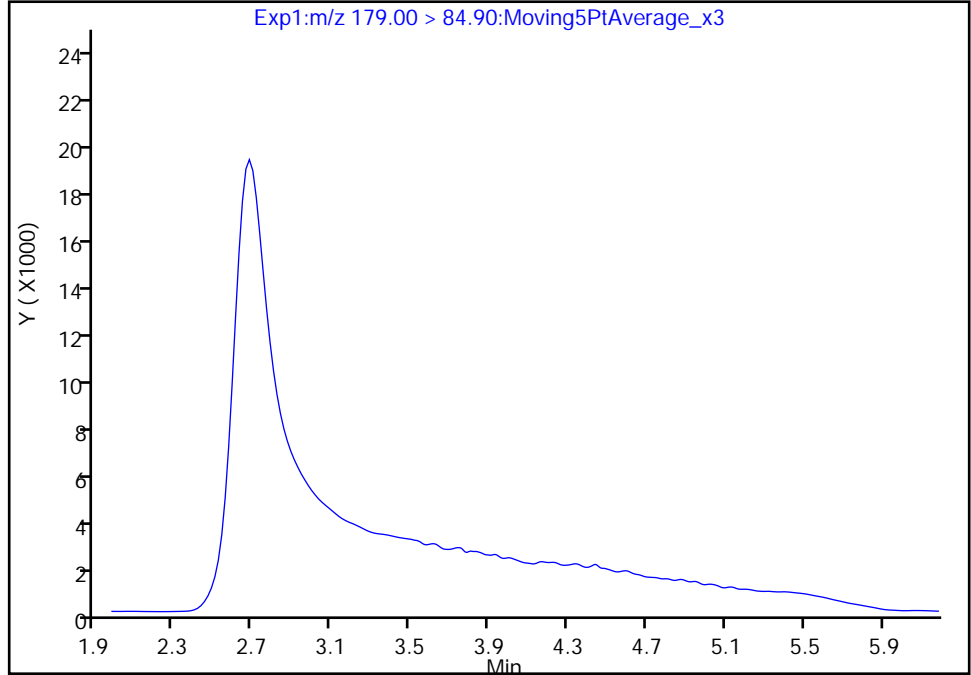
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

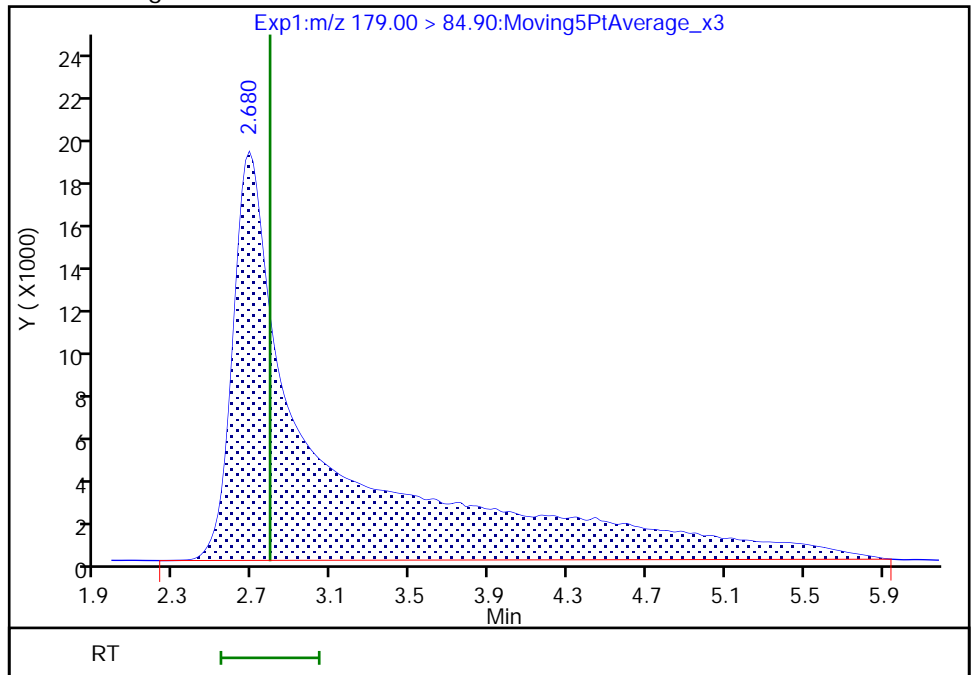
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.68  
Area: 621014  
Amount: 0.050258  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:38:16  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

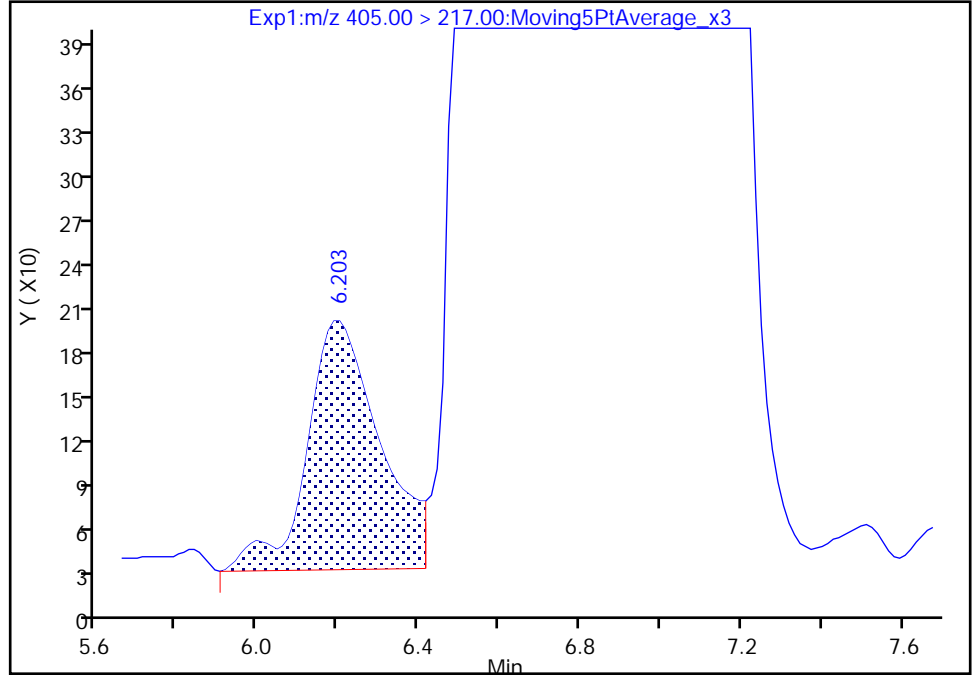
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

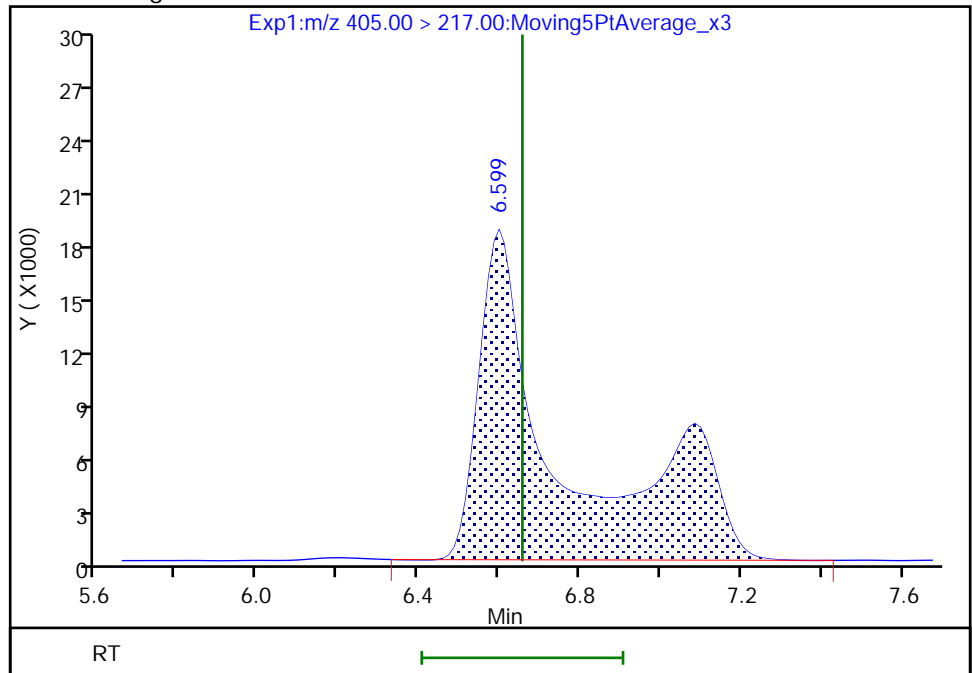
RT: 6.20  
Area: 2145  
Amount: 0.000867  
Amount Units: ng/ml

Processing Integration Results



RT: 6.60  
Area: 271839  
Amount: 0.054098  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:44:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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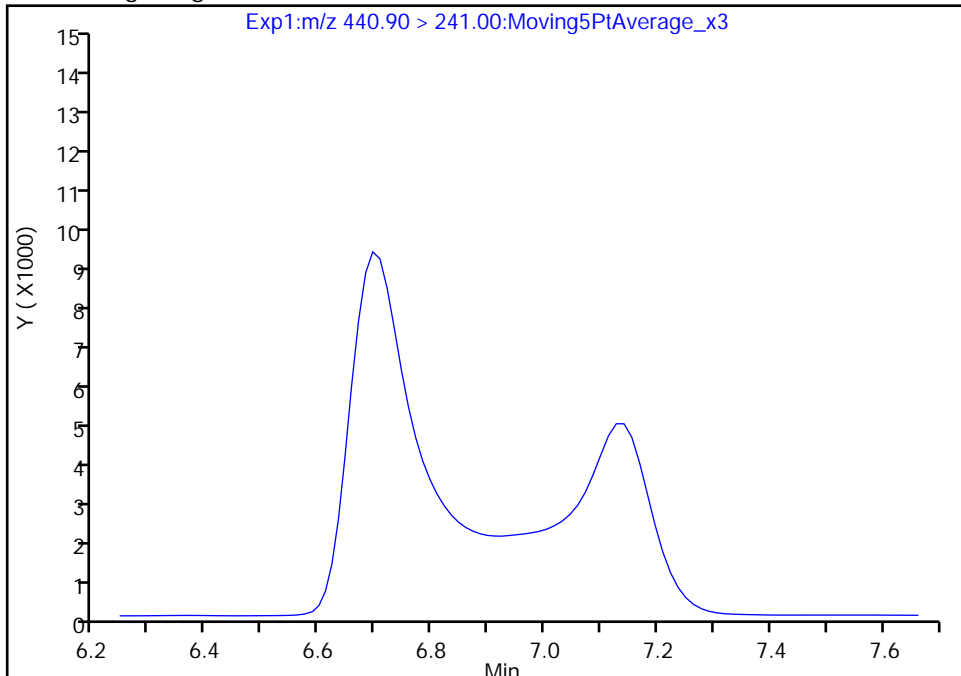
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Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

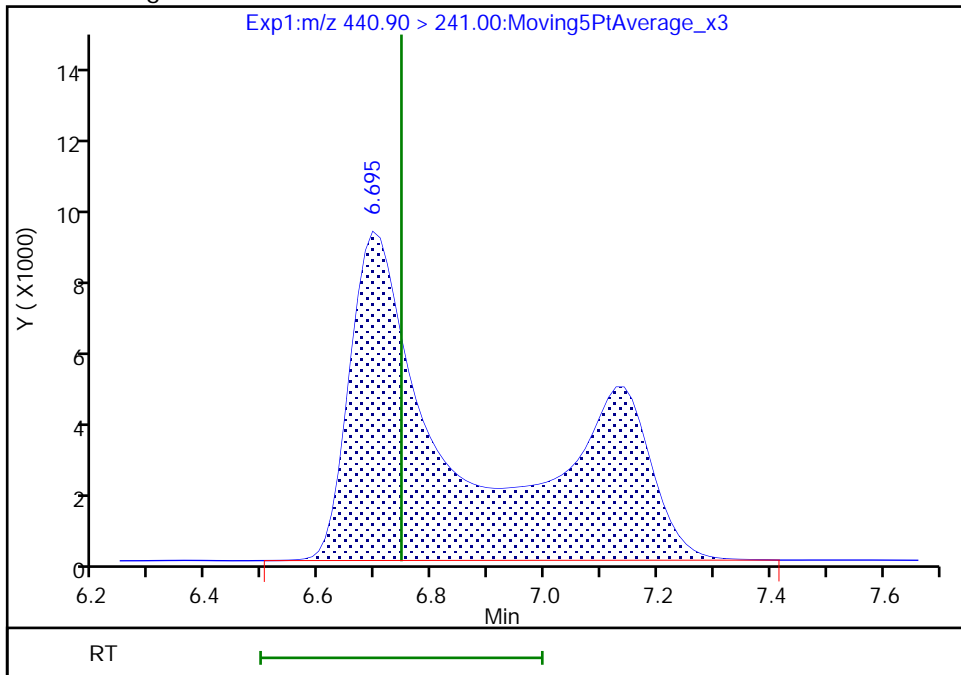
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.69  
Area: 136730  
Amount: 0.053544  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:38:20  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

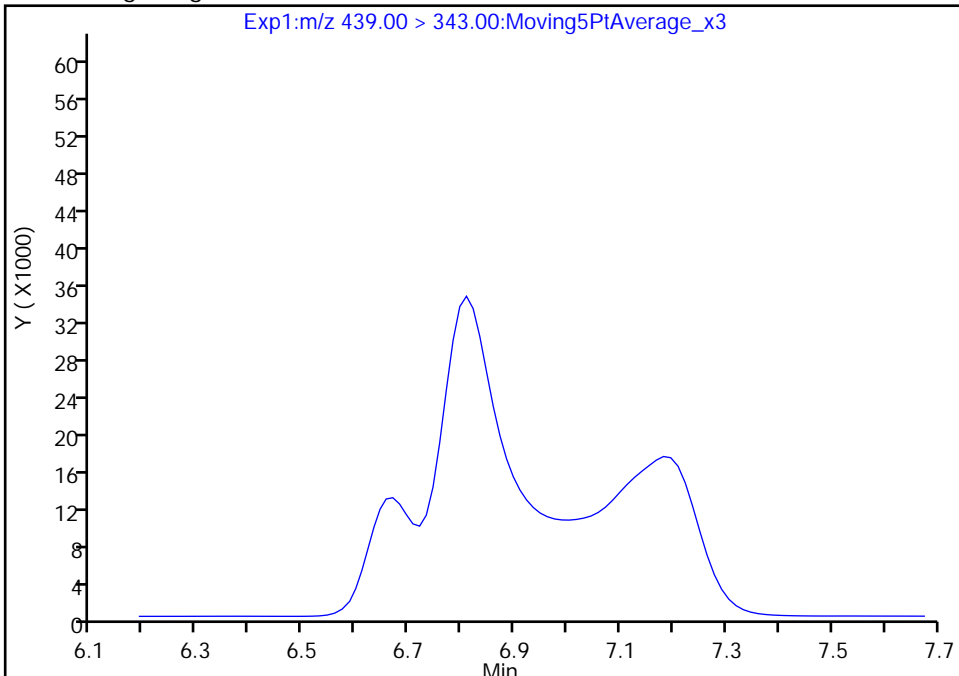
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

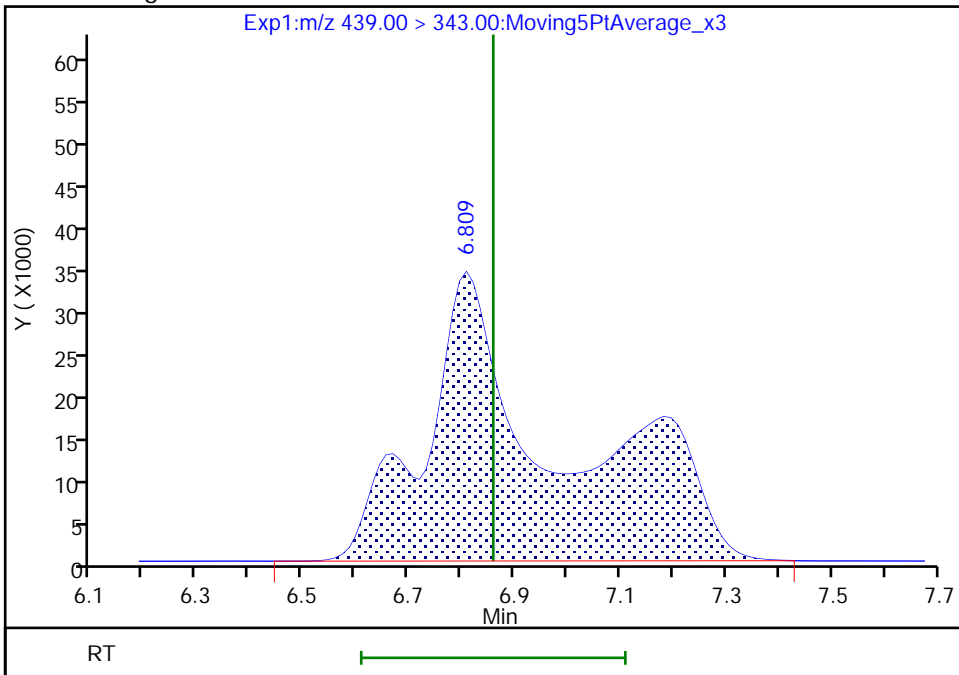
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.81  
Area: 618080  
Amount: 0.054289  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:38:23  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

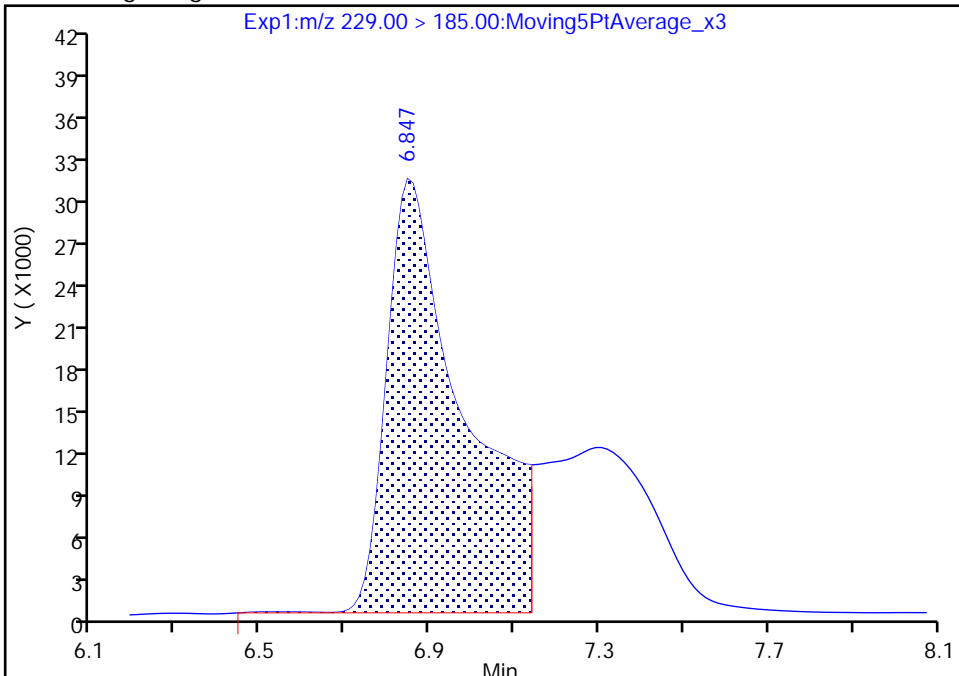
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
 Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
 Lims ID: IC STD 6  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

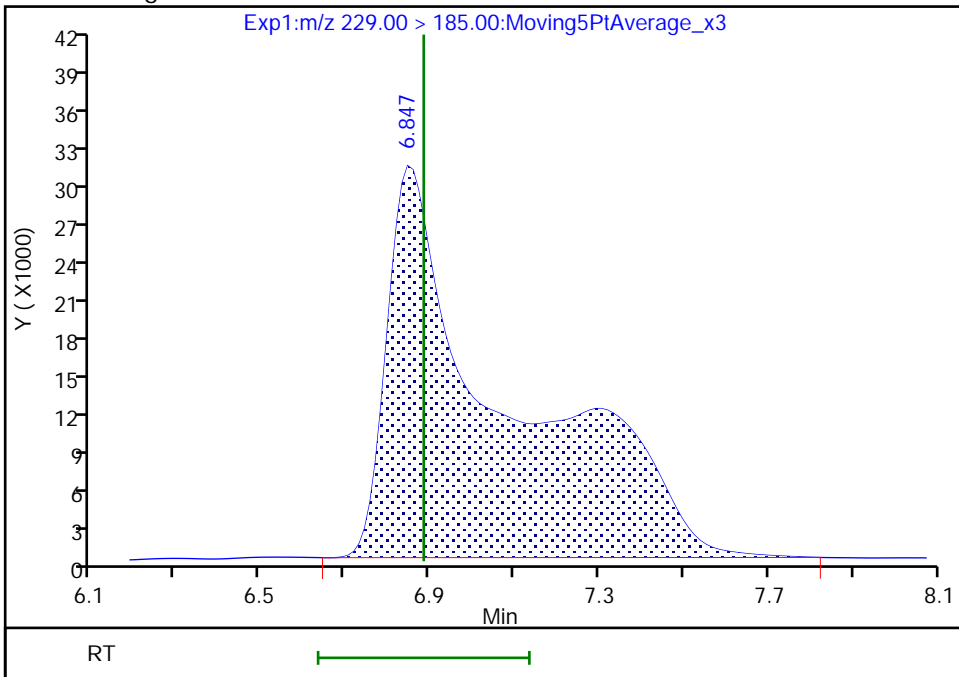
RT: 6.85  
 Area: 388129  
 Amount: 0.037559  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
 Area: 599690  
 Amount: 0.052195  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:36  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

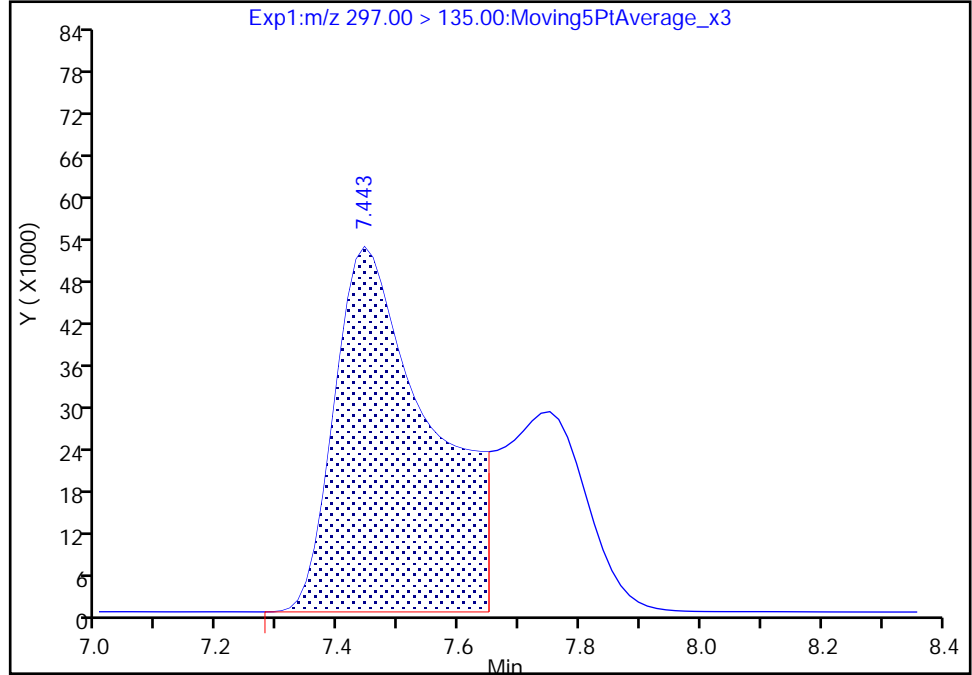
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

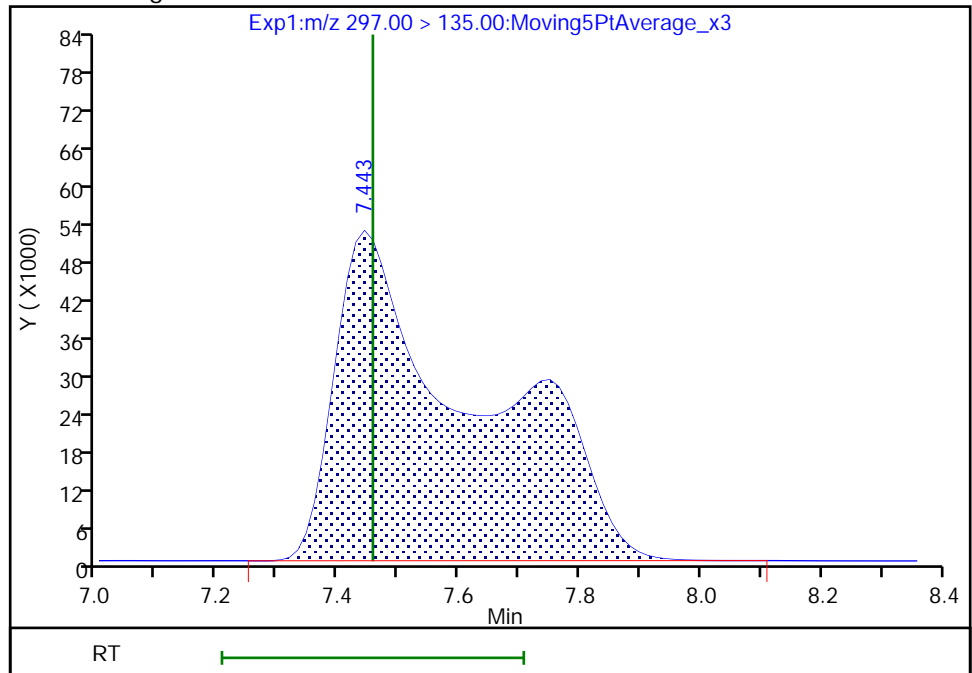
RT: 7.44  
Area: 570090  
Amount: 0.046498  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 848428  
Amount: 0.052998  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Sacramento

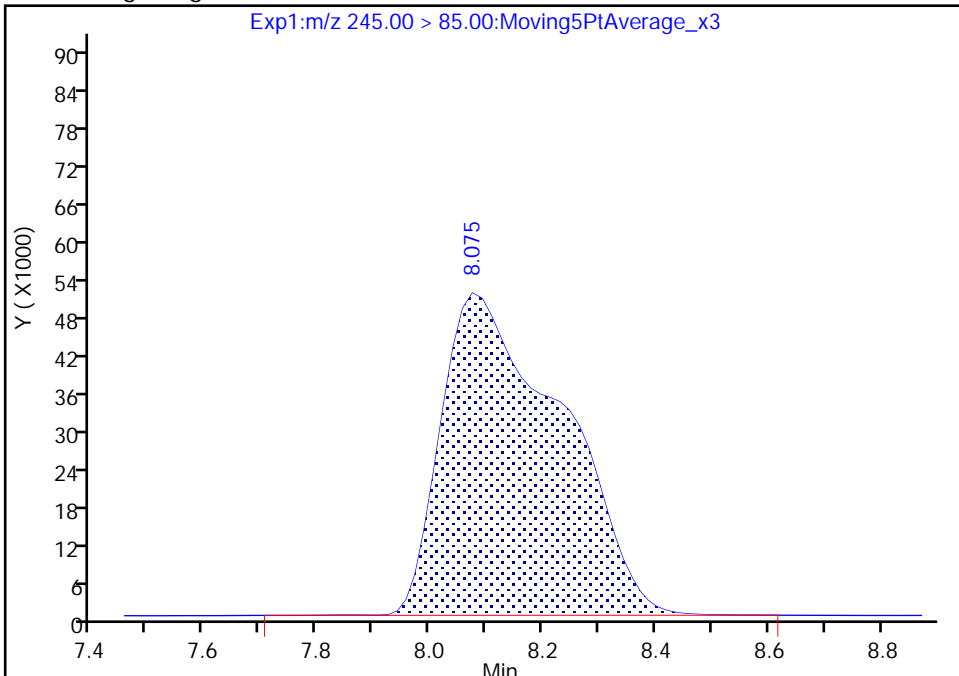
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_009.d  
Injection Date: 15-Dec-2020 21:39:54 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

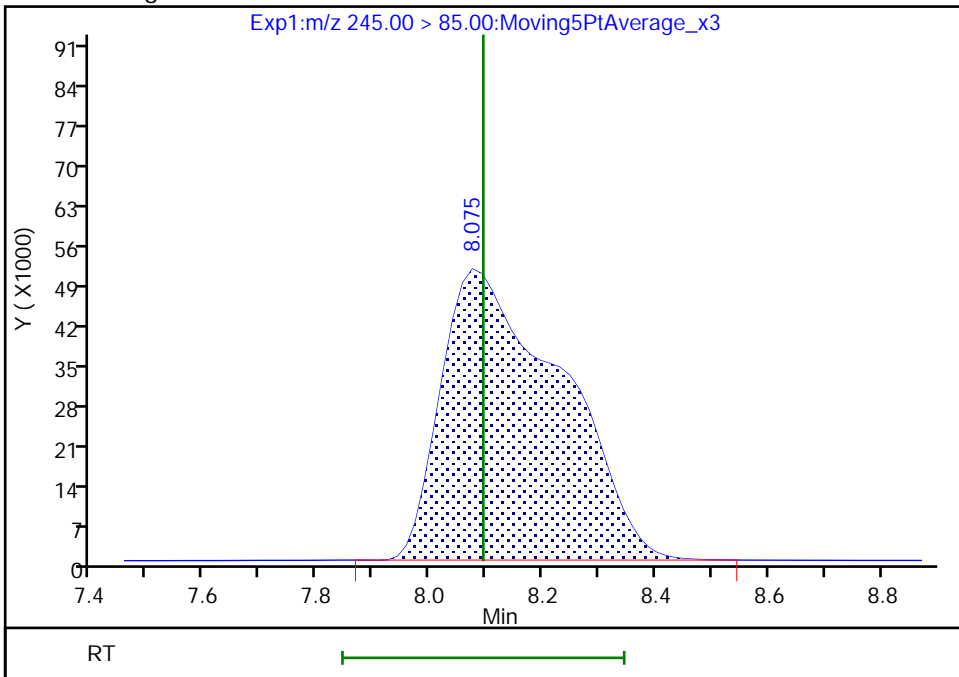
RT: 8.08  
Area: 762017  
Amount: 0.054963  
Amount Units: ng/ml

Processing Integration Results



RT: 8.08  
Area: 760425  
Amount: 0.052109  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:38:49  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 15-Dec-2020 21:57:28 ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (308  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:05:59 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerase Date: 16-Dec-2020 09:39:58

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.785	2.785	0.0		1170891	0.0948		94.8	2395	M
2 R-EVE										M
405.00 > 217.00	6.657	6.657	0.0		513487	0.1022		102	6195	M
3 R-PSDA										M
440.90 > 241.00	6.746	6.746	0.0		263743	0.1033		103	6410	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.860	6.860	0.0		1200781	0.1055		105	23761	M
5 PMPA										M
229.00 > 185.00	6.885	6.885	0.0		1137198	0.0990		99.0	1069	M
6 NVHOS										M
297.00 > 135.00	7.457	7.457	0.0		1642310	0.1026		103	14972	M
7 PFO2HxA										
245.00 > 85.00	8.094	8.094	0.0		1421707	0.0974		97.4	9211	
8 PEPA										
278.90 > 234.90	8.739	8.739	0.0		959926	0.1011		101	3519	
9 PES										
314.90 > 135.00	9.044	9.044	0.0		8864472	0.1010		101	159402	
10 PFECA B										
295.00 > 201.00	9.279	9.279	0.0		1093548	0.1025		102	38126	
11 PFO3OA										
310.90 > 85.00	9.516	9.516	0.0		1179078	0.0968		96.8	15186	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.599	9.599	0.0		1191322	0.2417		96.7	34385	
13 HPFO-DA										
285.00 > 169.00	9.627	9.627	0.0	1.003	553958	0.1022		102	16039	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.957	9.957	0.0		11028616	0.1031		103	196309	
16 Hydro-EVE Acid										
427.00 > 282.90	10.013	10.013	0.0		5897426	0.1028		103	76859	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.013	10.013	0.0	1.000	2189522	0.0965	Target=0.00	96.5	33011	
363.00 > 169.00	10.013	10.013	0.0	1.000	1417664		1.54(0.00-0.00)	96.5	32112	
D 15 13C4 PFHpA										
367.00 > 322.00	10.013	10.013	0.0		5640245	0.2481		99.3	170426	
17 Hydro-PS Acid										
463.00 > 262.90	10.042	10.042	0.0		3691742	0.1034		103	68617	
19 PFECA G										
378.90 > 184.90	10.145	10.145	0.0		2457517	0.0972		97.2	78959	
20 PFO4DA										
376.90 > 85.00	10.269	10.269	0.0		1307902	0.0971		97.1	11593	
21 PS Acid										
443.00 > 146.90	10.344	10.344	0.0		1557836	0.0943		94.3	38387	
22 EVE Acid										
407.00 > 262.90	10.344	10.344	0.0		5433377	0.0989		98.9	106732	
23 TAF										
442.90 > 85.00	10.847	10.847	0.0		349151	0.0974		97.4	967	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

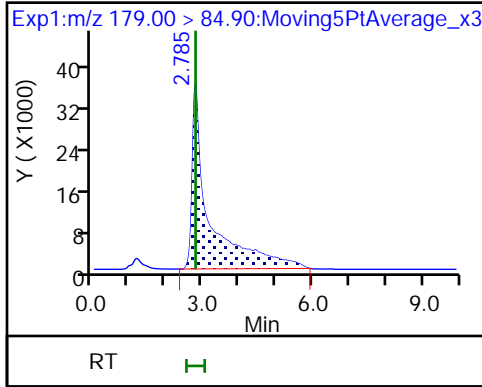
**Reagents:**

LCTB3\_LLSTD7\_00308

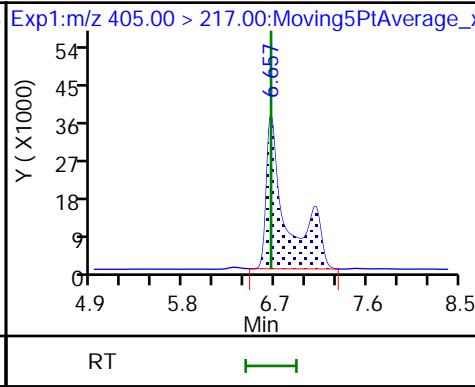
Amount Added: 1.00

Units: mL

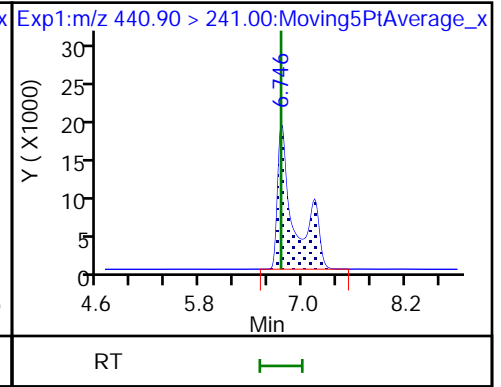
1 PFMOAA (M)



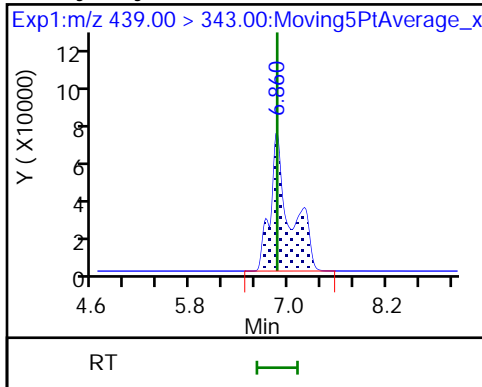
2 R-EVE (M)



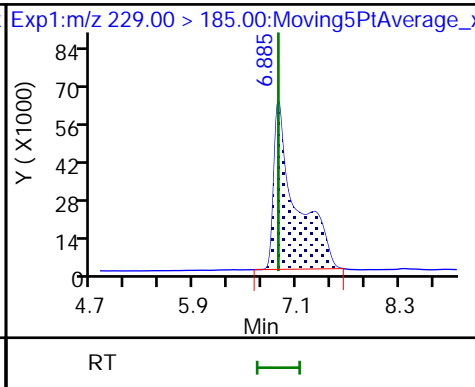
3 R-PSDA (M)



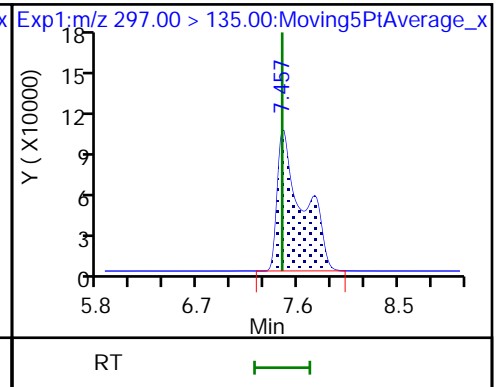
4 Hydrolyzed PSDA (M)



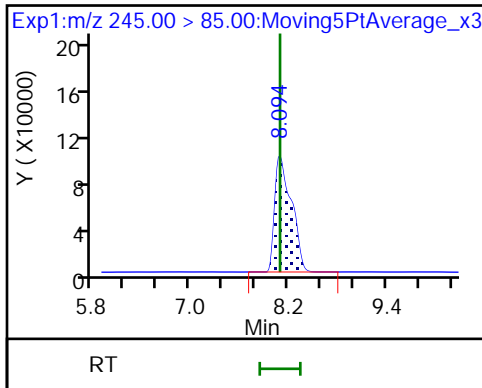
5 PMPA (M)



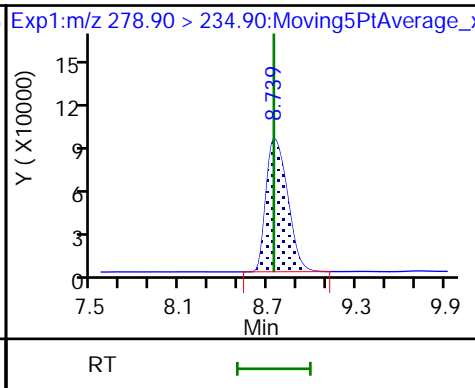
6 NVHOS (M)



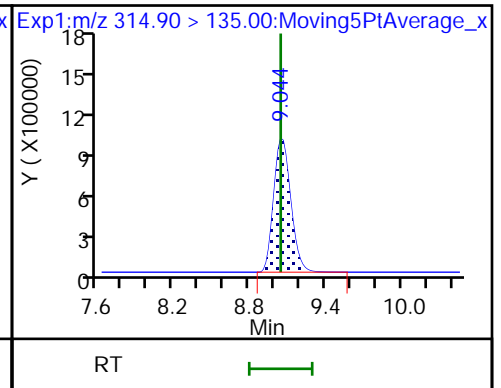
7 PFO2HxA



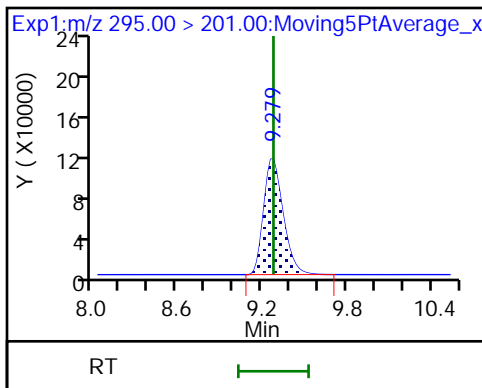
8 PEPA



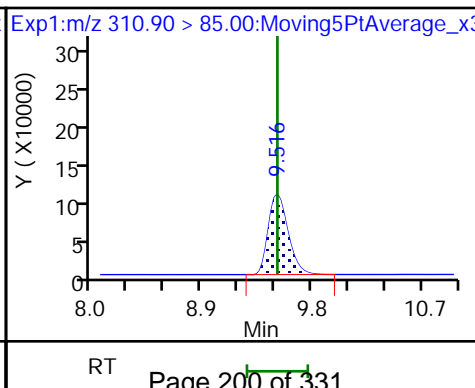
9 PES



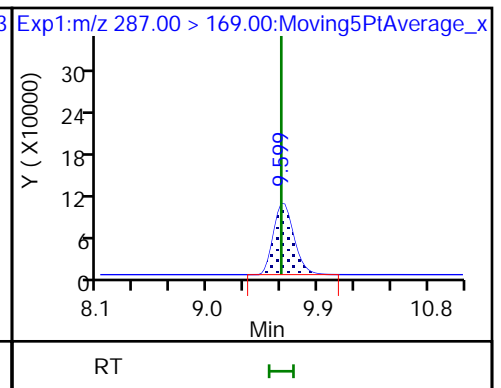
10 PFECA B

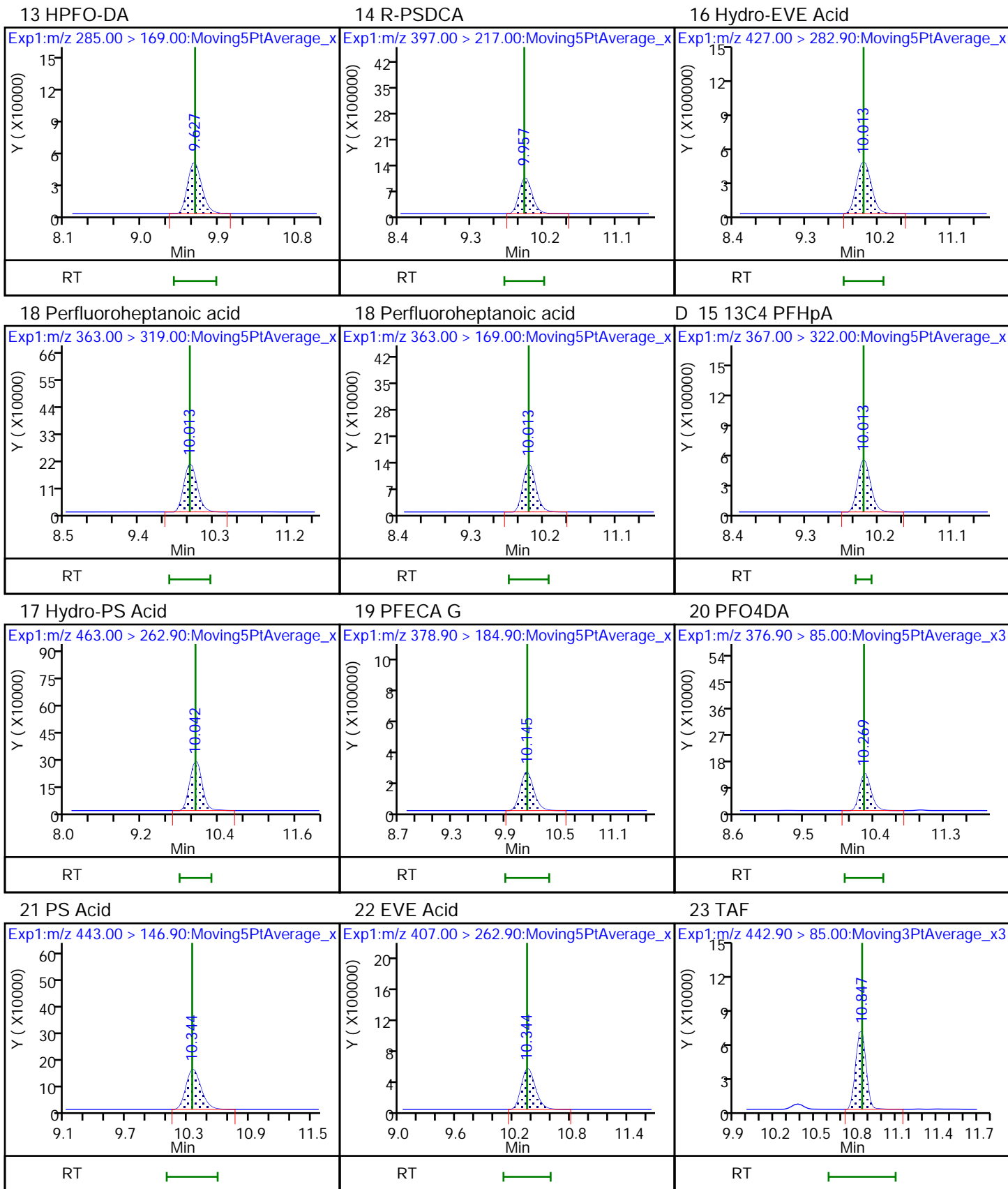


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

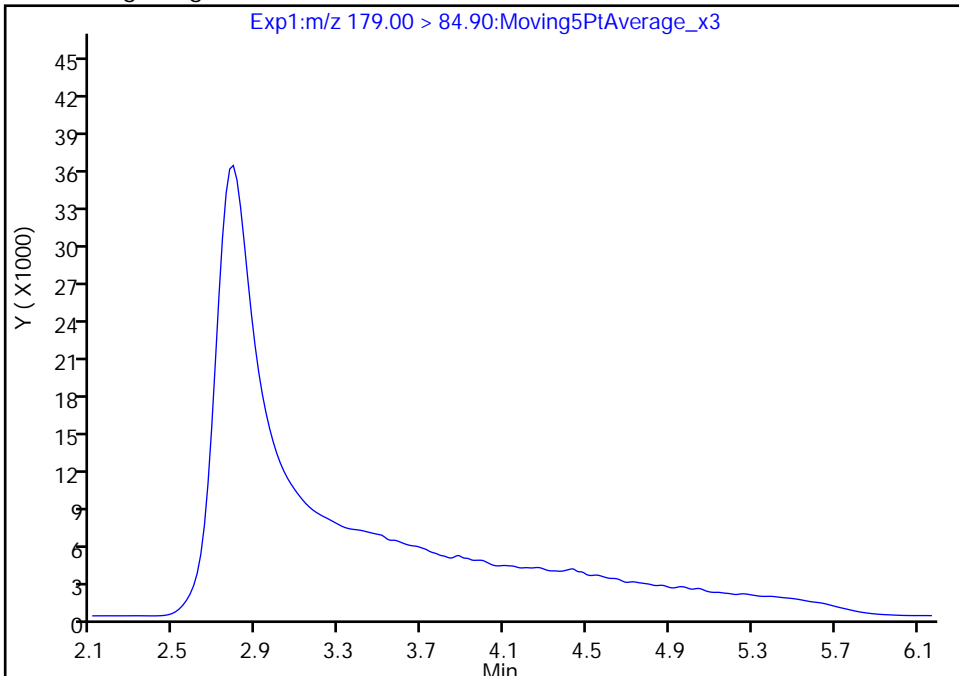
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

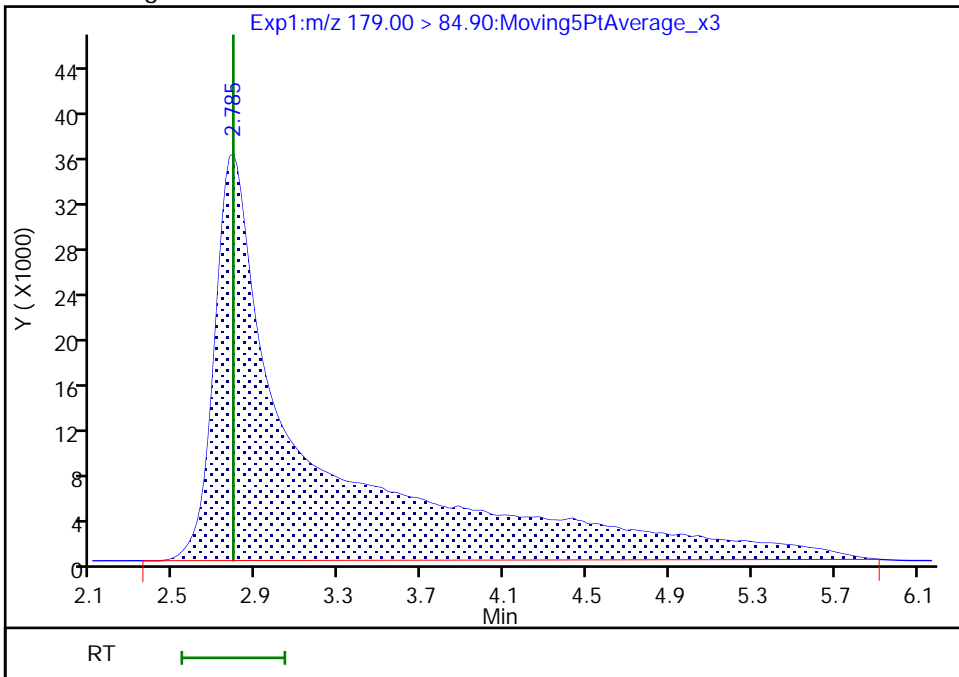
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.79  
Area: 1170891  
Amount: 0.094759  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

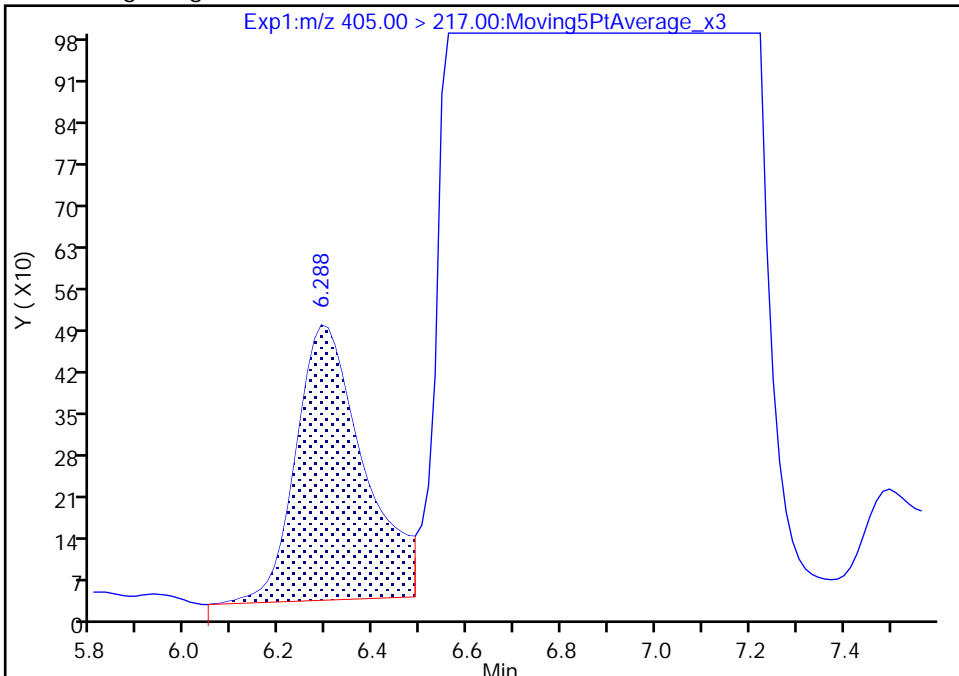
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

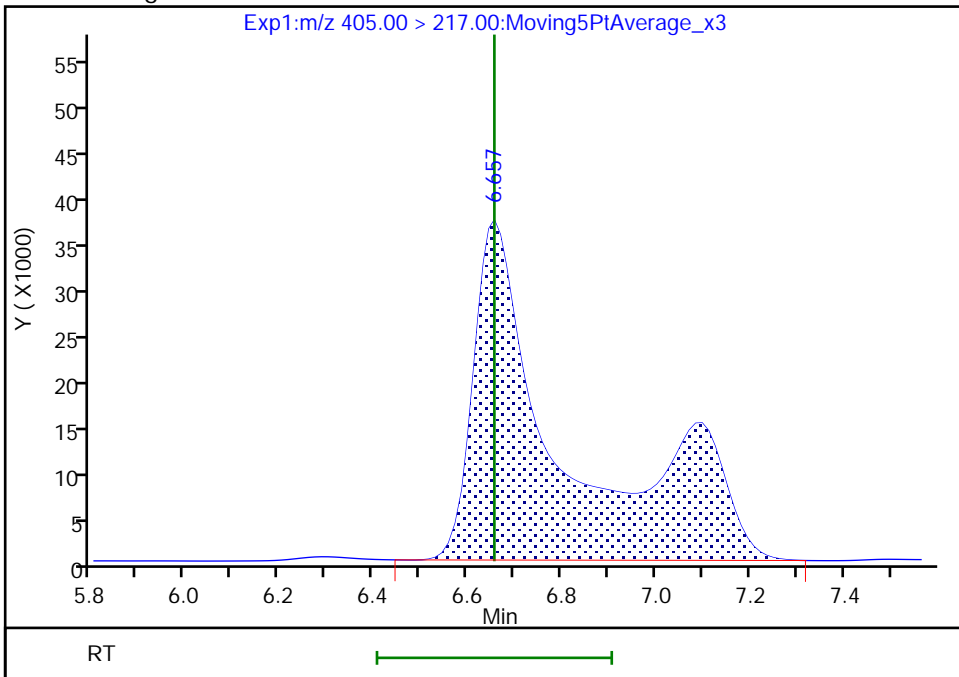
RT: 6.29  
Area: 4633  
Amount: 0.001534  
Amount Units: ng/ml

Processing Integration Results



RT: 6.66  
Area: 513487  
Amount: 0.102188  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Sacramento

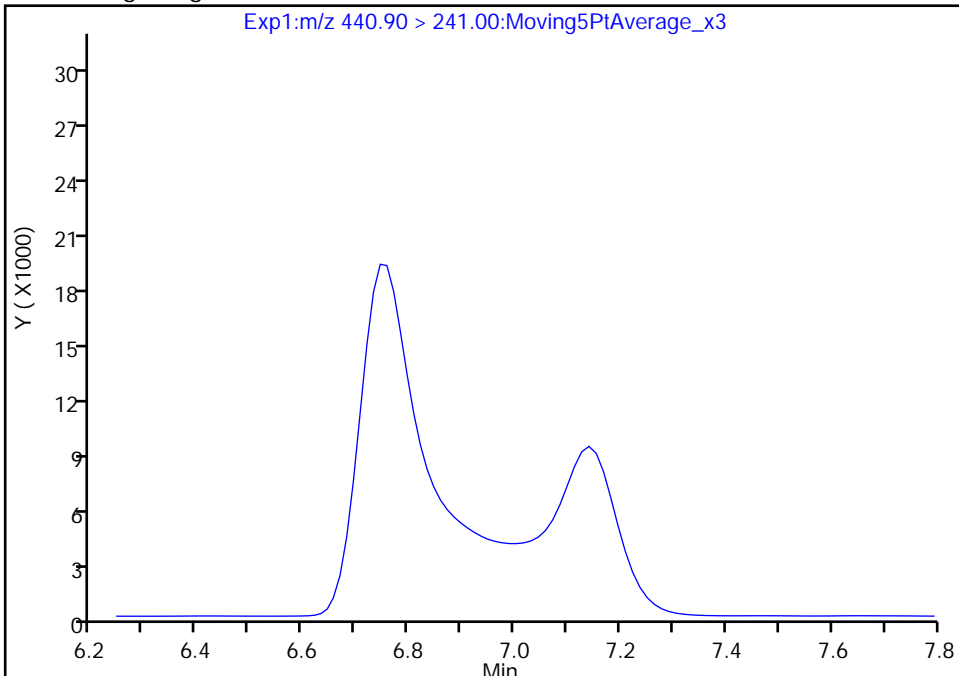
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

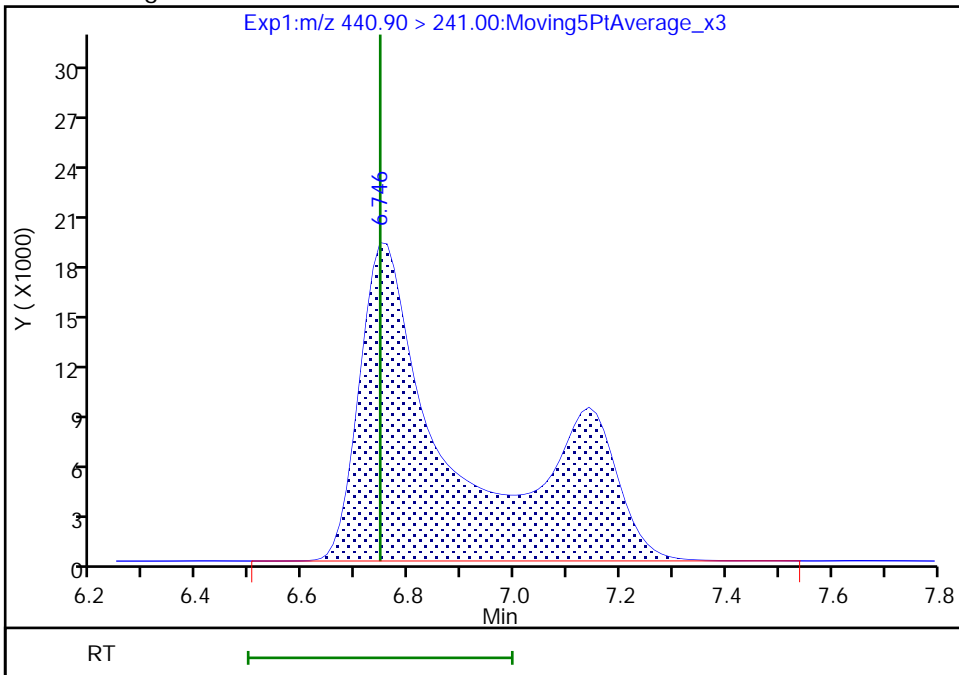
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.75  
Area: 263743  
Amount: 0.103283  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:39:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

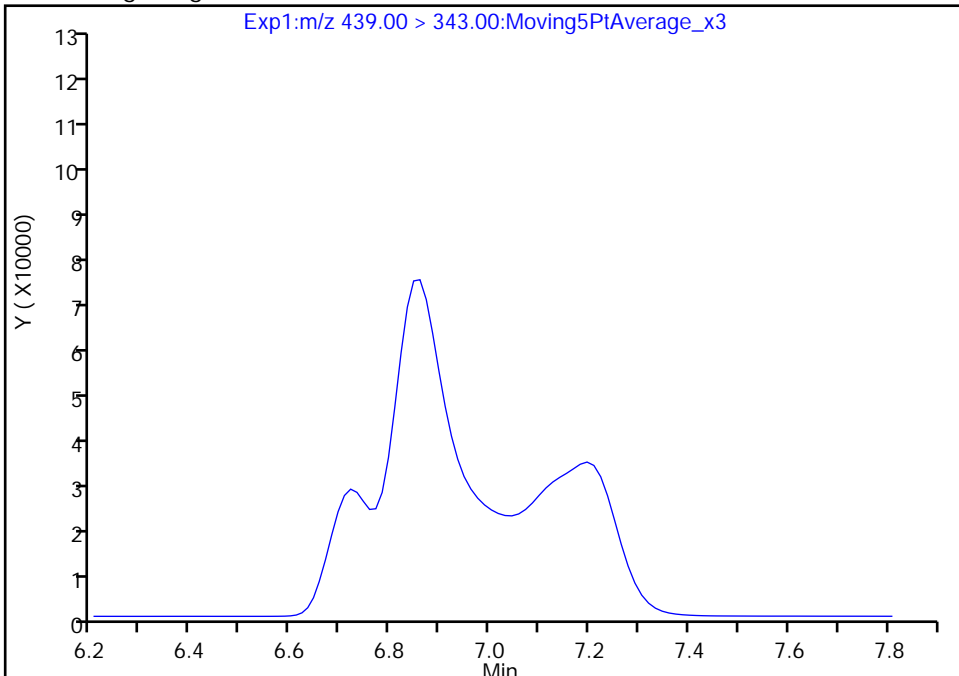
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

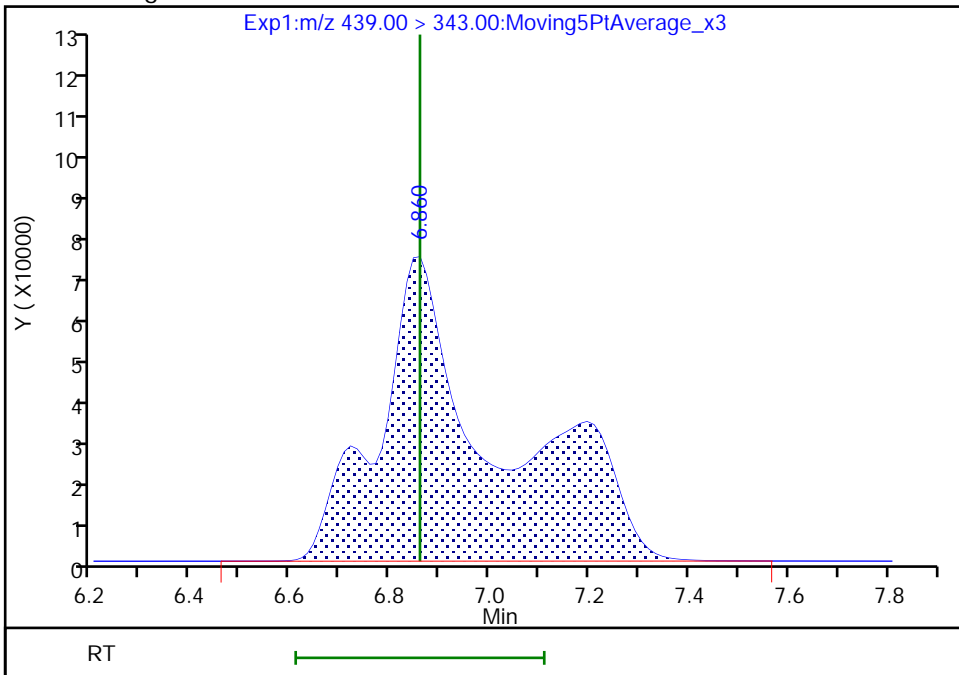
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.86  
Area: 1200781  
Amount: 0.105471  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

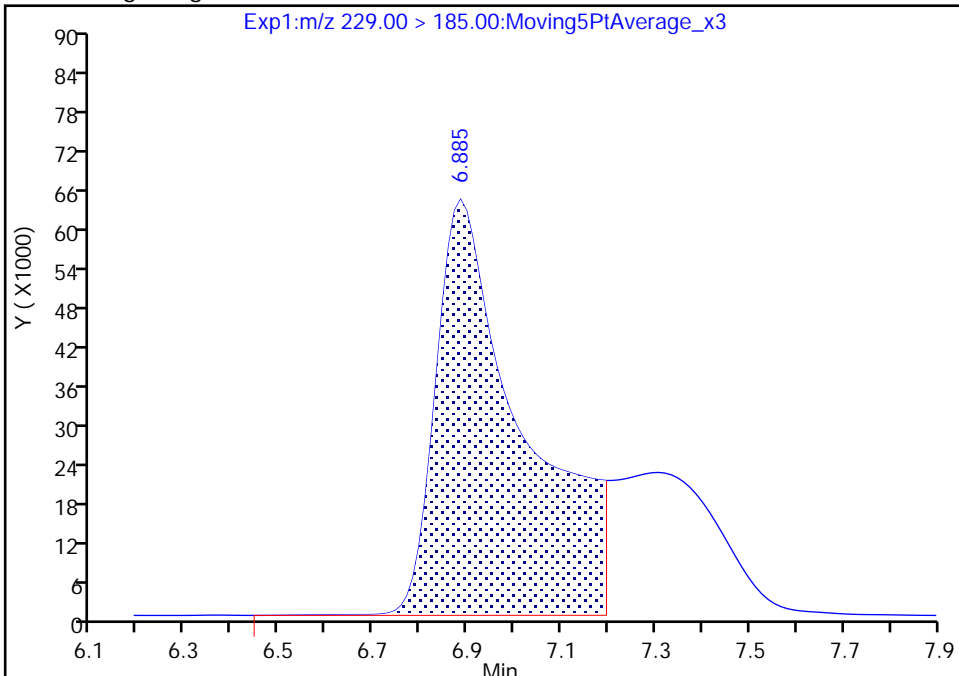
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
Lims ID: IC STD 7  
Client ID:  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

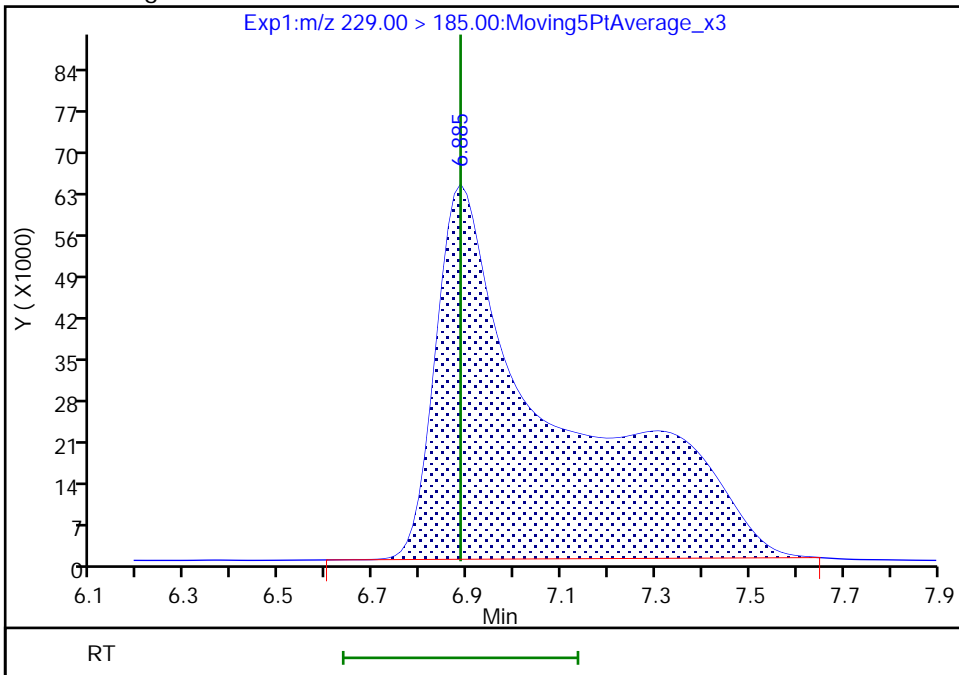
RT: 6.88  
Area: 815510  
Amount: 0.075813  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 1137198  
Amount: 0.098977  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:39:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

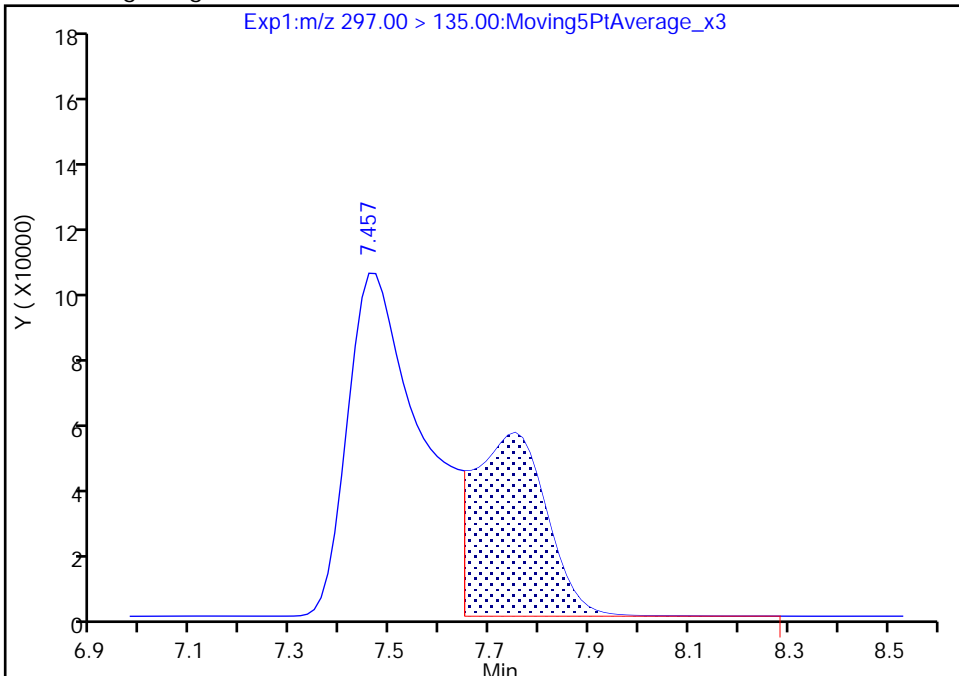
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_010.d  
 Injection Date: 15-Dec-2020 21:57:28 Instrument ID: A7\_N  
 Lims ID: IC STD 7  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

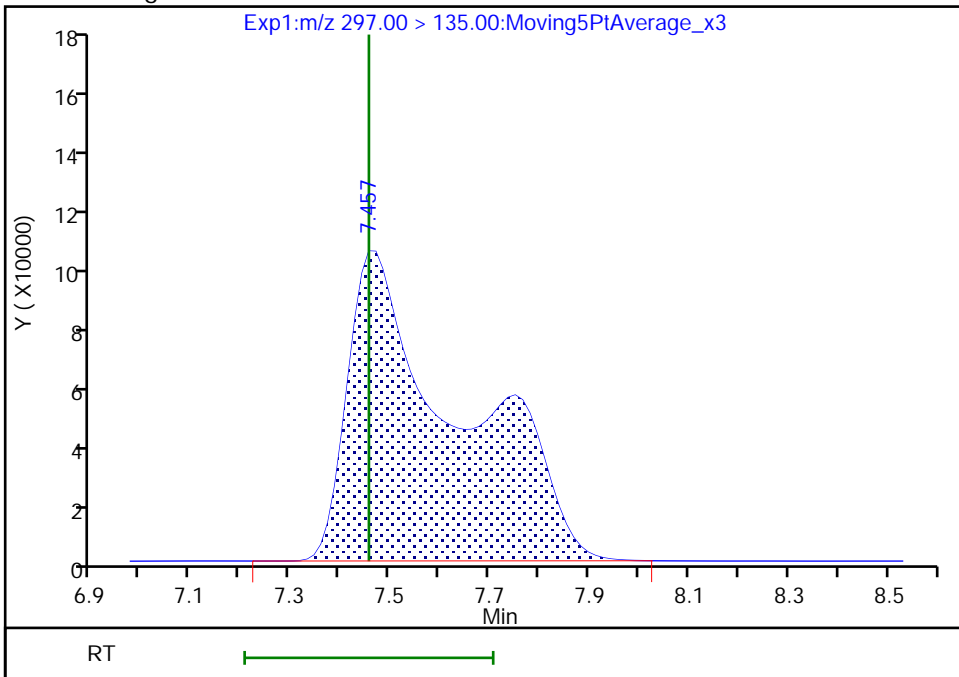
RT: 7.46  
 Area: 556176  
 Amount: 0.043393  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.46  
 Area: 1642310  
 Amount: 0.102589  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 09:39:42  
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 15-Dec-2020 22:15:04 ALS Bottle#: 11 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (40  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:06:26 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:40:38

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.855	2.785	0.070		2962580	0.2398		95.9	8246	M
2 R-EVE										M
405.00 > 217.00	6.695	6.657	0.038		1284679	0.2557		102	12666	M
3 R-PSDA										M
440.90 > 241.00	6.784	6.746	0.038		660243	0.2586		103	17603	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.885	6.860	0.025		2943913	0.2586		103	49293	M
5 PMPA										
229.00 > 185.00	6.911	6.885	0.026		2850703	0.2481		99.2	2504	
6 NVHOS										
297.00 > 135.00	7.471	7.457	0.014		4082981	0.2550		102	38366	
7 PFO2HxA										
245.00 > 85.00	8.100	8.094	0.006		3695857	0.2533		101	22550	
8 PEPA										
278.90 > 234.90	8.750	8.739	0.011		2292512	0.2413		96.5	10743	
9 PES										
314.90 > 135.00	9.040	9.044	-0.004		20672409	0.2355		94.2	321098	
10 PFECA B										
295.00 > 201.00	9.273	9.279	-0.006		2692978	0.2524		101	94658	
11 PFO3OA										
310.90 > 85.00	9.511	9.516	-0.005		3167388	0.2600		104	40956	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.621	9.599	0.022		1220443	0.2476		99.0	35696	
13 HPFO-DA										
285.00 > 169.00	9.621	9.627	-0.005	1.000	1418910	0.2556		102	41694	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.980	9.957	0.023		21811684	0.2038		81.5	217829	
16 Hydro-EVE Acid										
427.00 > 282.90	10.036	10.013	0.023		13741477	0.2396		95.8	133444	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.036	10.013	0.023	1.000	5592019	0.2464	Target=0.00	98.6	84309	
363.00 > 169.00	10.036	10.013	0.023	1.000	3307735		1.69(0.00-0.00)	98.6	74438	
D 15 13C4 PFHpA										
367.00 > 322.00	10.036	10.013	0.023		5662276	0.2491		99.6	170073	
17 Hydro-PS Acid										
463.00 > 262.90	10.062	10.042	0.020		9399925	0.2632		105	171539	
19 PFECA G										
378.90 > 184.90	10.140	10.145	-0.005		5510979	0.2180		87.2	170836	
20 PFO4DA										
376.90 > 85.00	10.298	10.269	0.029		3086735	0.2292		91.7	24536	
21 PS Acid										
443.00 > 146.90	10.373	10.344	0.029		4187794	0.2534		101	80707	
22 EVE Acid										
407.00 > 262.90	10.373	10.344	0.029		11910026	0.2169		86.8	162527	
23 TAF										
442.90 > 85.00	10.857	10.847	0.010		835930	0.2333		93.3	1601	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00040

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d

Injection Date: 15-Dec-2020 22:15:04

Instrument ID: A7\_N

Lims ID: IC STD 8

Client ID:

Operator ID: abservice

ALS Bottle#: 11

Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

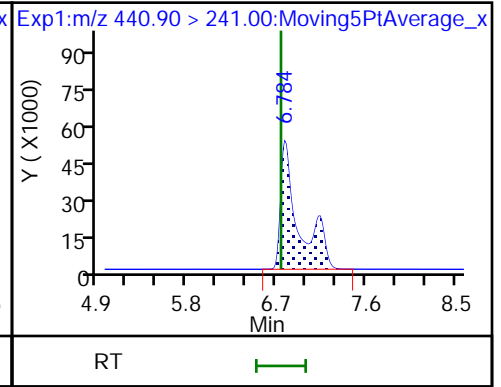
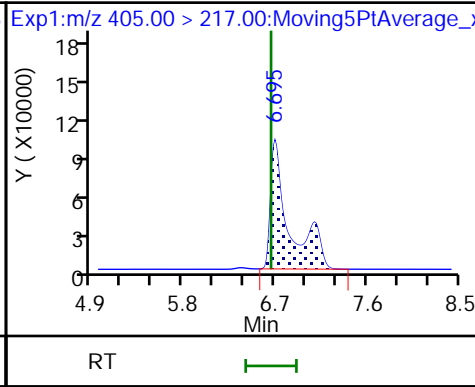
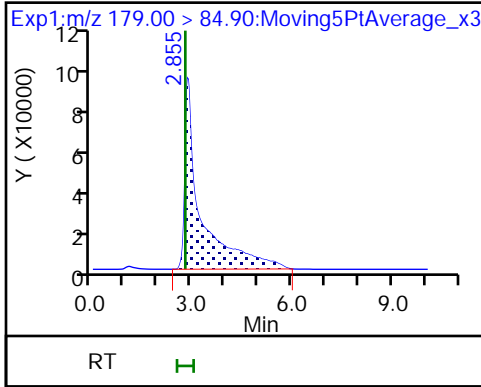
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

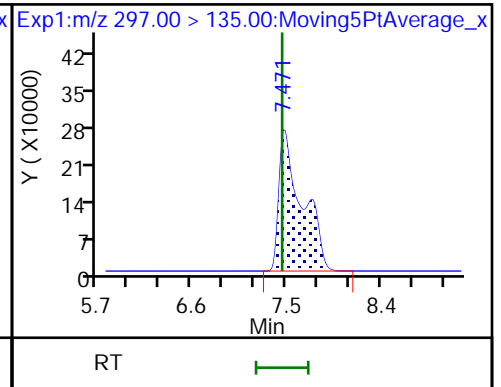
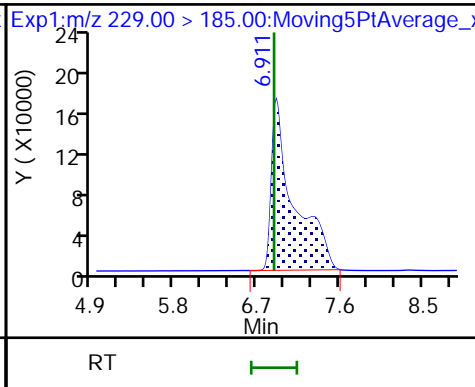
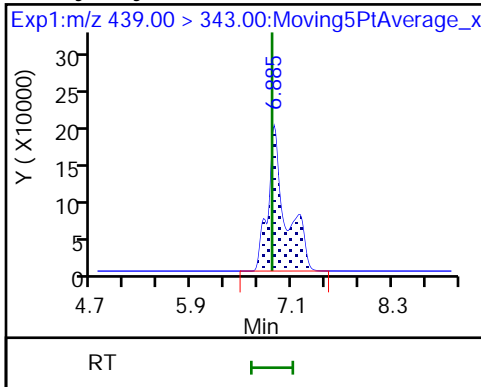
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA

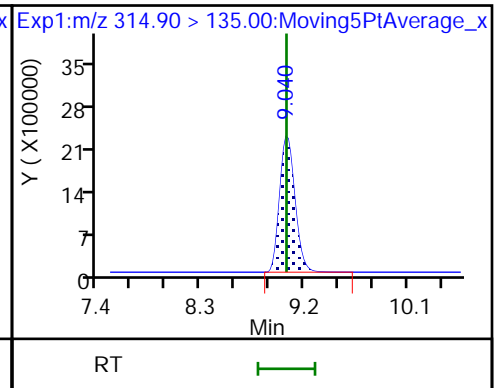
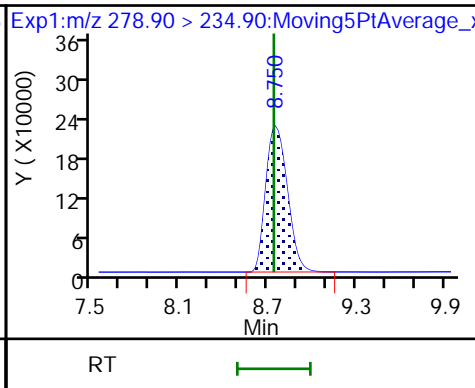
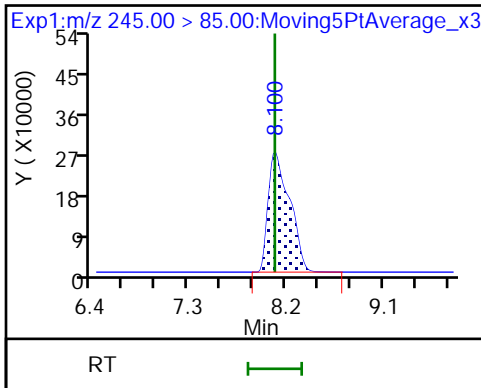
6 NVHOS



7 PFO2HxA

8 PEPA

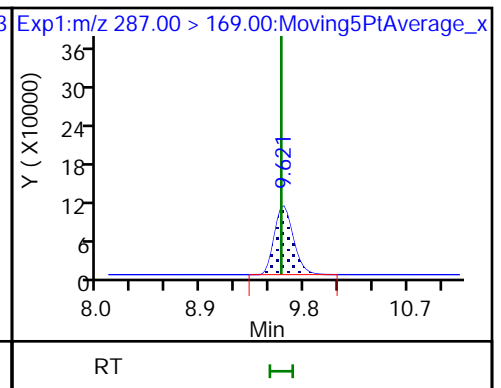
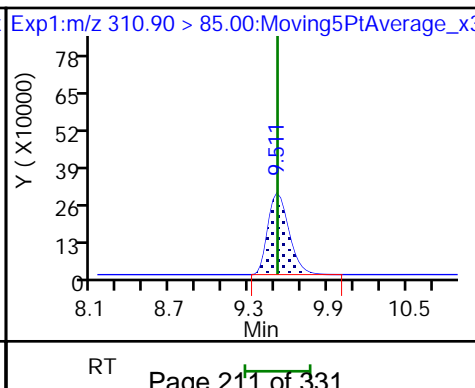
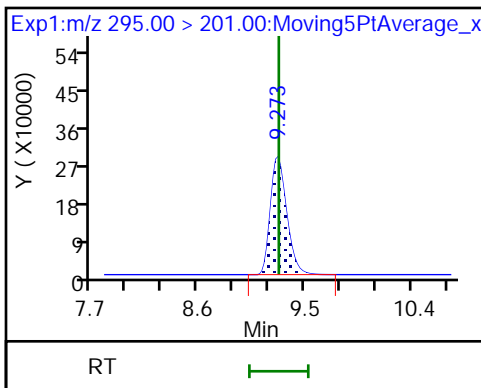
9 PES

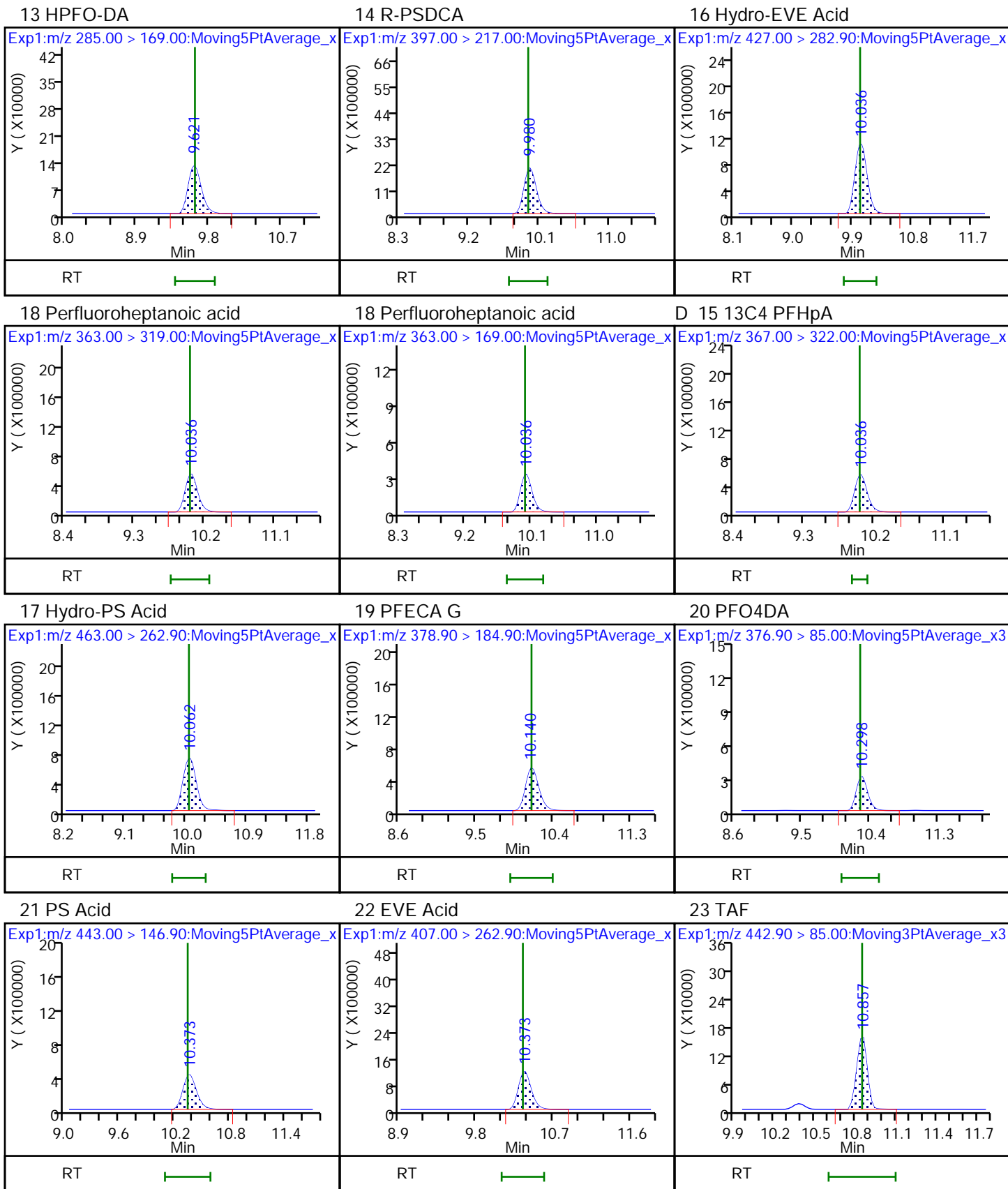


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

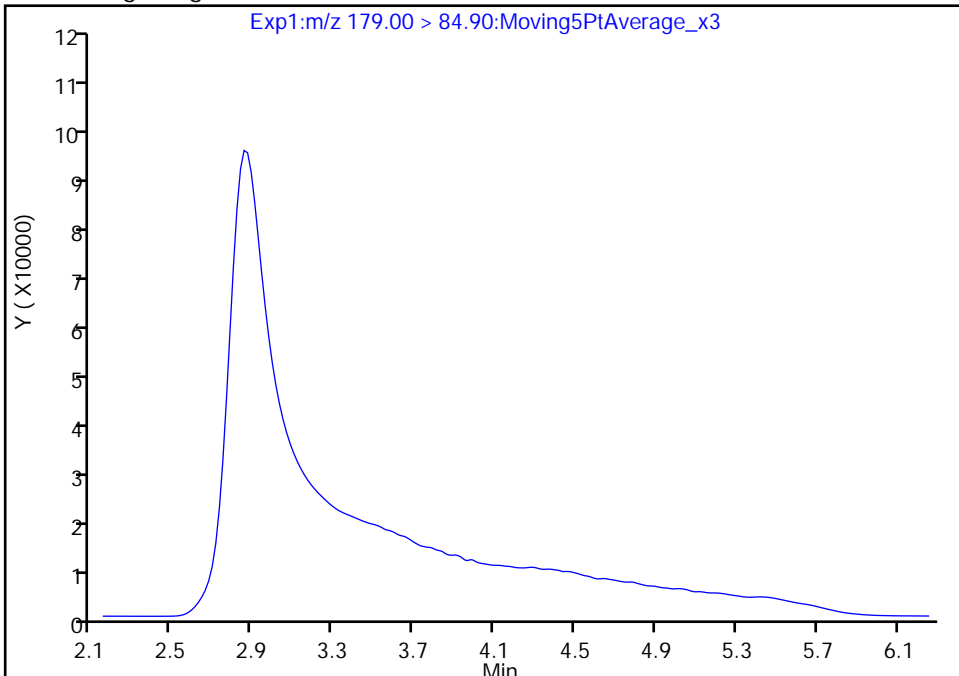
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_011.d  
Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

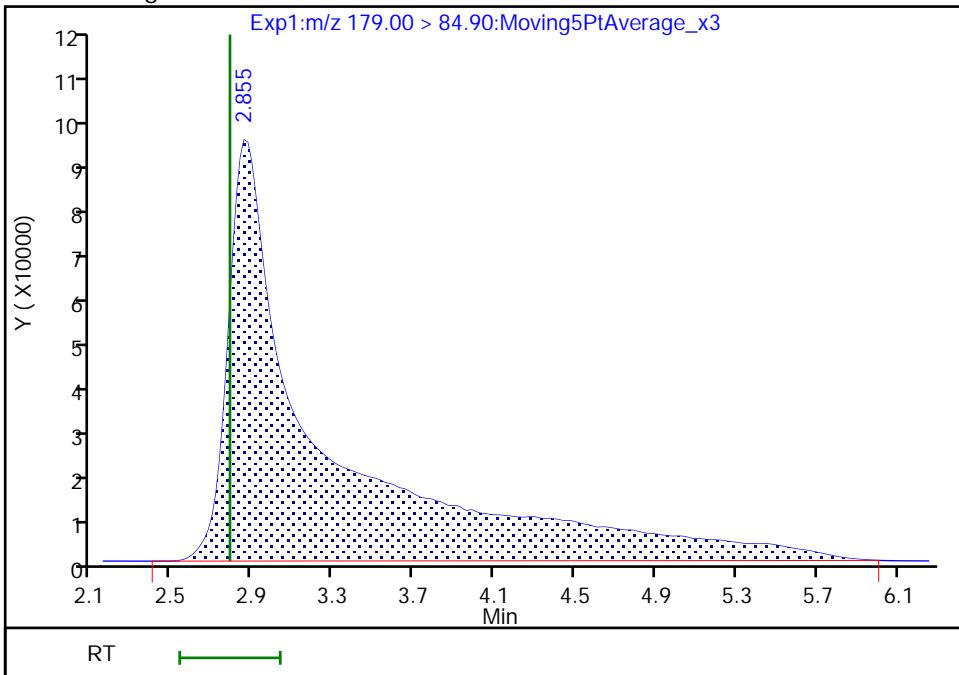
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.86  
Area: 2962580  
Amount: 0.239758  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

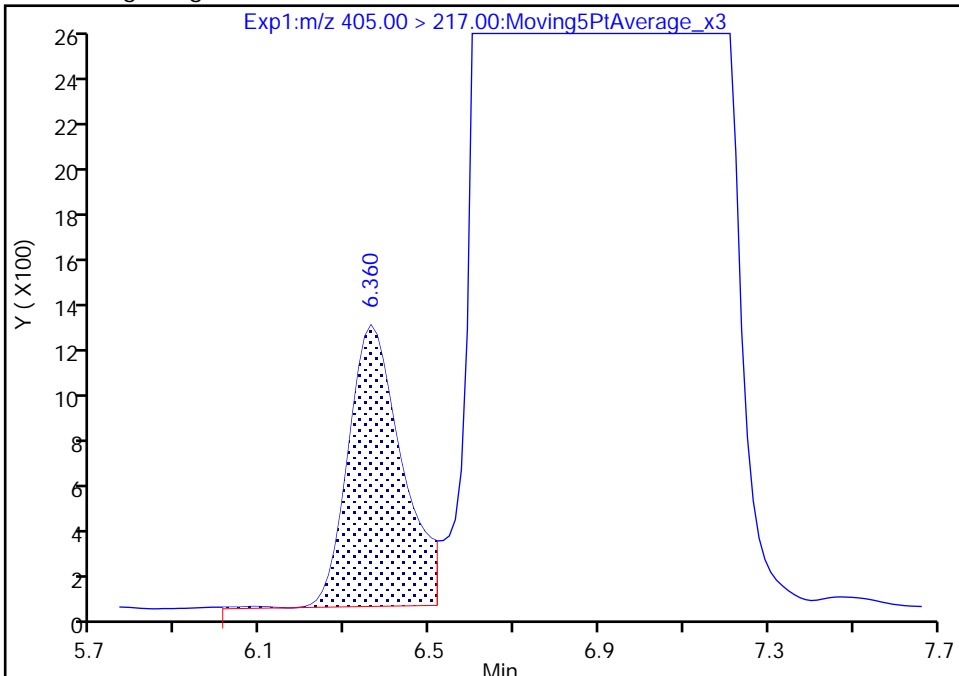
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Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

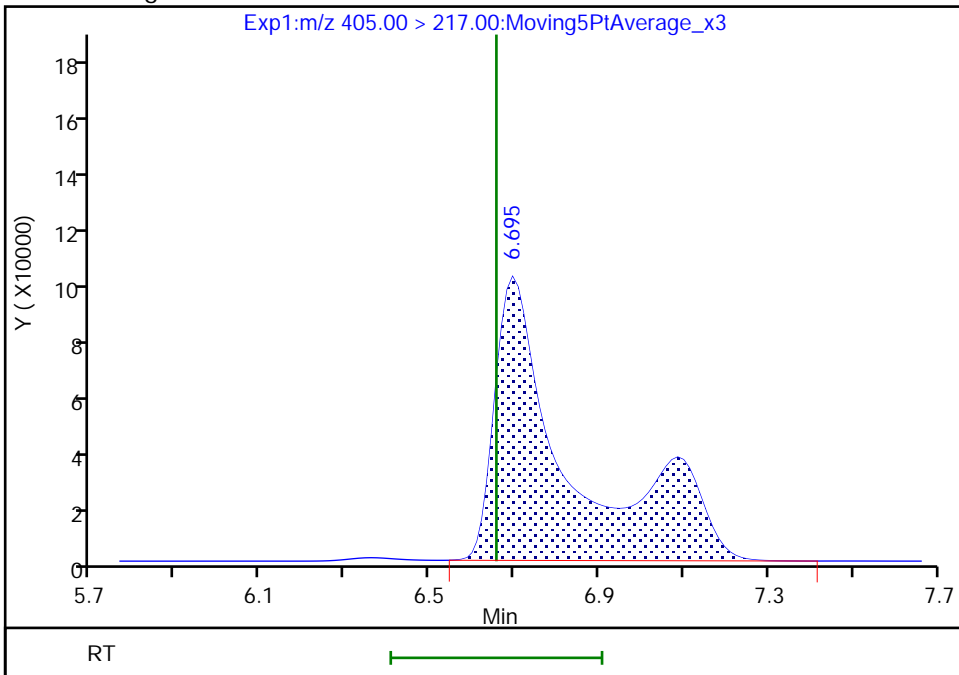
RT: 6.36  
Area: 10773  
Amount: 0.003045  
Amount Units: ng/ml

Processing Integration Results



RT: 6.70  
Area: 1284679  
Amount: 0.255661  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

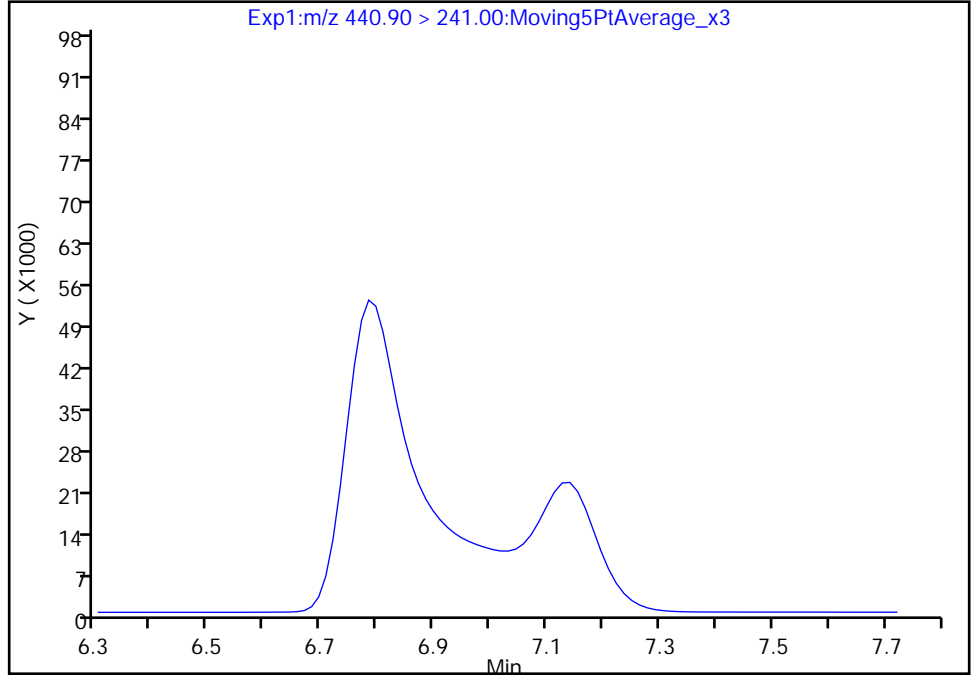
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Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

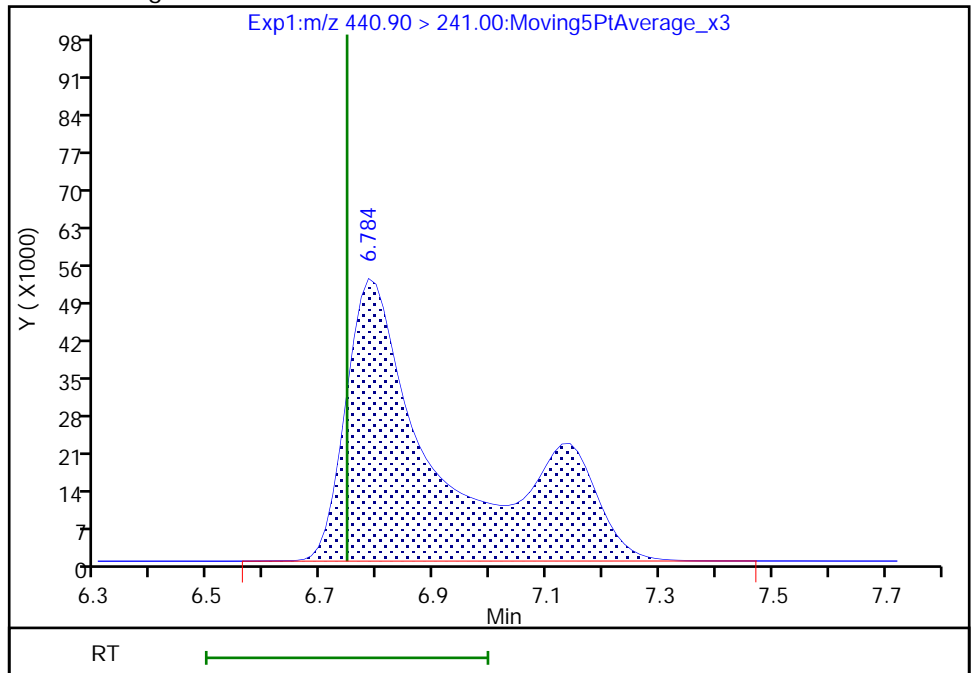
Not Detected  
Expected RT: 6.75

Processing Integration Results



RT: 6.78  
Area: 660243  
Amount: 0.258554  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:40:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

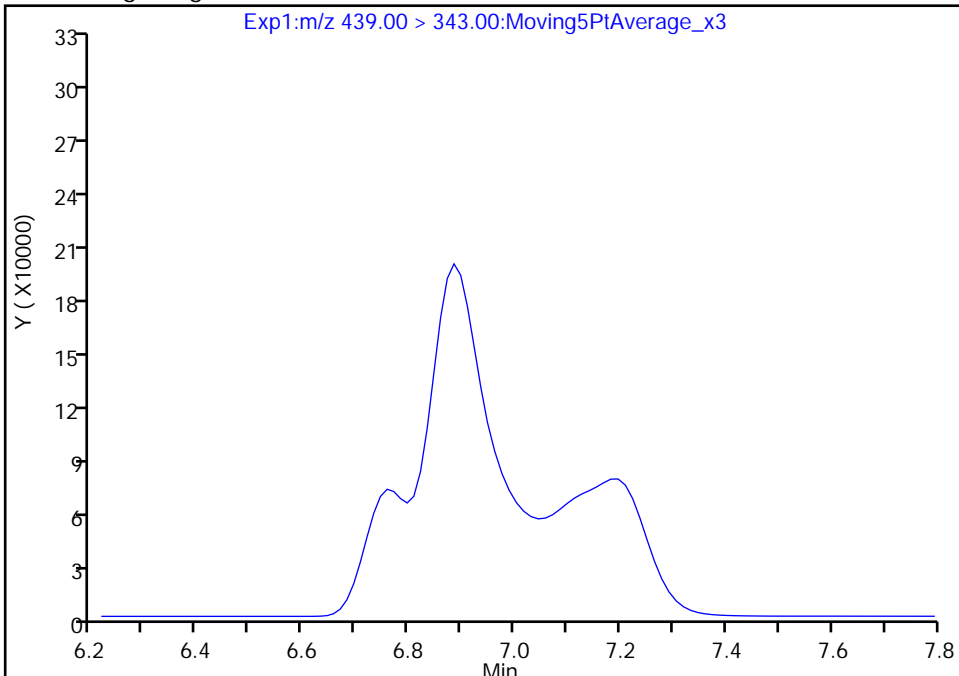
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Injection Date: 15-Dec-2020 22:15:04 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

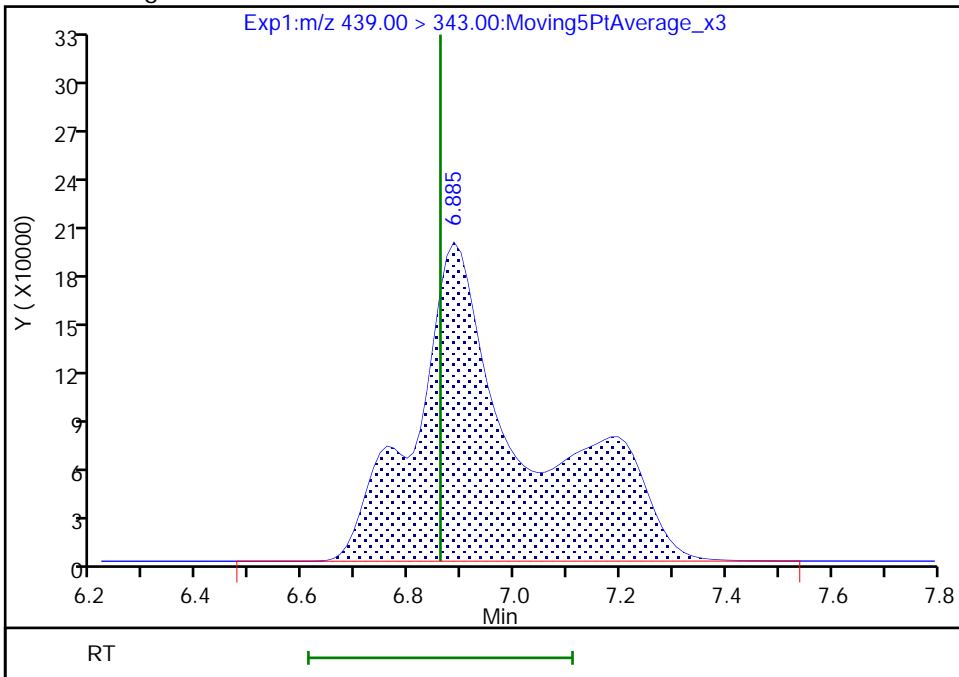
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.89  
Area: 2943913  
Amount: 0.258580  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:40:17  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 0  
 Inject. Date: 15-Dec-2020 22:50:16 ALS Bottle#: 13 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (38  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 13:06:26 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1632

First Level Reviewer: contrerese Date: 16-Dec-2020 09:41:25  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.680	2.785	-0.105		2897339	0.2345			7880	M
2 R-EVE										EM
405.00 > 217.00	6.599	6.657	-0.058		1290669	0.2569			12482	EM
3 R-PSDA										M
440.90 > 241.00	6.695	6.746	-0.051		660910	0.2588			15324	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.809	6.860	-0.051		2800615	0.2460			36945	M
5 PMPA										M
229.00 > 185.00	6.847	6.885	-0.038		2861316	0.2490			2440	M
6 NVHOS										M
297.00 > 135.00	7.443	7.457	-0.014		3970862	0.2480			34194	M
7 PFO2HxA										
245.00 > 85.00	8.075	8.094	-0.019		3637328	0.2493			20531	
8 PEPA										
278.90 > 234.90	8.758	8.739	0.019		2382221	0.2508			9893	
9 PES										
314.90 > 135.00	9.067	9.044	0.023		20671132	0.2354			272649	
10 PFECA B										
295.00 > 201.00	9.282	9.279	0.003		2819121	0.2642			73163	
11 PFO3OA										
310.90 > 85.00	9.521	9.516	0.005		2988166	0.2452			37727	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.631	9.599	0.032		1224539	0.2484		99.4	35875	
13 HPFO-DA										
285.00 > 169.00	9.631	9.627	0.005	1.000	1415297	0.2541			41533	
14 R-PSDCA										
397.00 > 217.00	9.990	9.957	0.033		21326268	0.1994			238963	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid	427.00 > 282.90	10.047	10.013	0.034		13032067	0.2272			126426
18 Perfluoroheptanoic acid	363.00 > 319.00	10.047	10.013	0.034	1.000	5260238	0.2475	Target=0.00		78883
	363.00 > 169.00	10.047	10.013	0.034	1.000	3170205	1.66(0.00-0.00)			71198
D 15 13C4 PFHpA	367.00 > 322.00	10.047	10.013	0.034		5303619	0.2333	93.3		158758
17 Hydro-PS Acid	463.00 > 262.90	10.073	10.042	0.031		9061574	0.2537			132191
19 PFECA G	378.90 > 184.90	10.152	10.145	0.007		5271992	0.2085			163070
20 PFO4DA	376.90 > 85.00	10.309	10.269	0.040		3070122	0.2280			24286
21 PS Acid	443.00 > 146.90	10.360	10.344	0.016		4246762	0.2569			102508
22 EVE Acid	407.00 > 262.90	10.360	10.344	0.016		11781335	0.2145			187169
23 TAF	442.90 > 85.00	10.871	10.847	0.024		812682	0.2268			1568

**QC Flag Legend**

Processing Flags

E - Exceeded Maximum Amount

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD9\_00038

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d

Injection Date: 15-Dec-2020 22:50:16

Instrument ID: A7\_N

Lims ID: IC STD 9

Client ID:

Operator ID: abservice

ALS Bottle#: 13

Worklist Smp#: 11

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

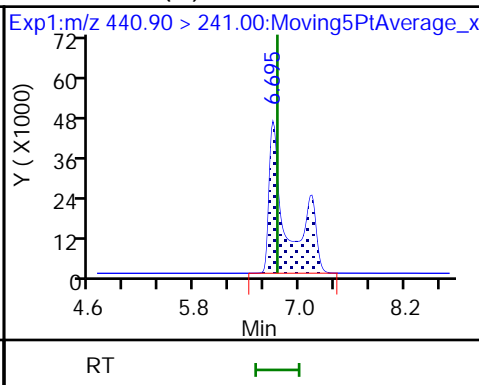
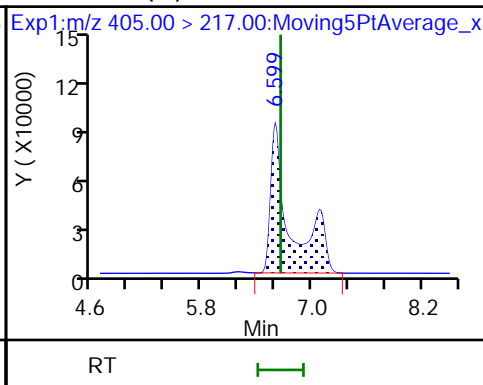
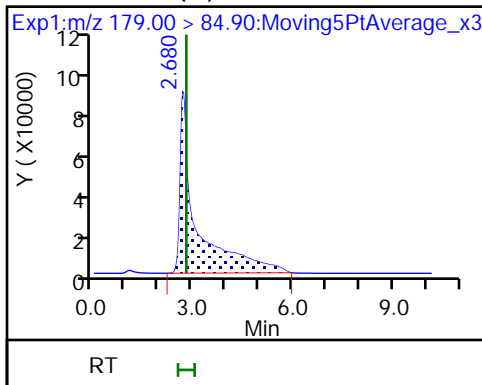
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

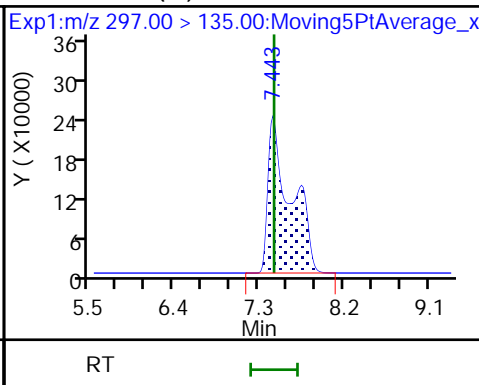
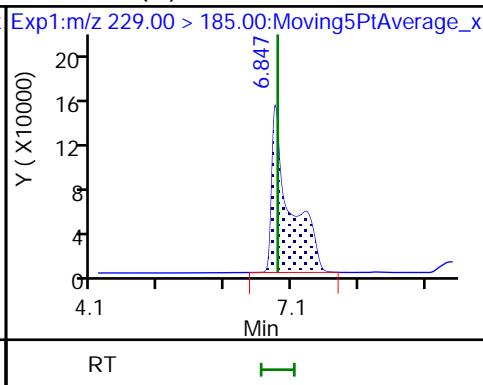
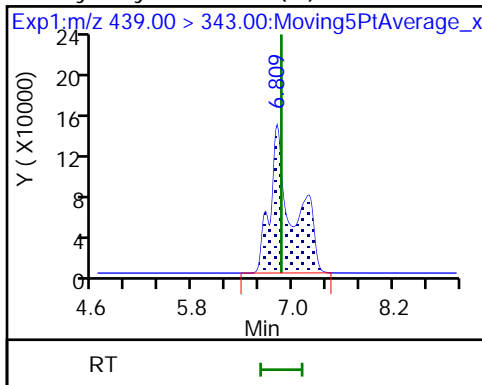
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

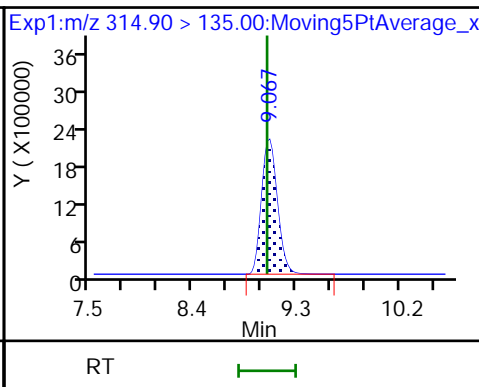
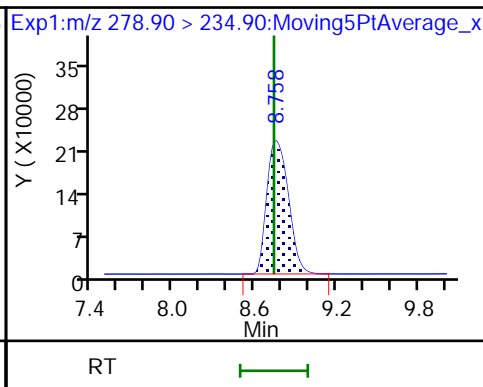
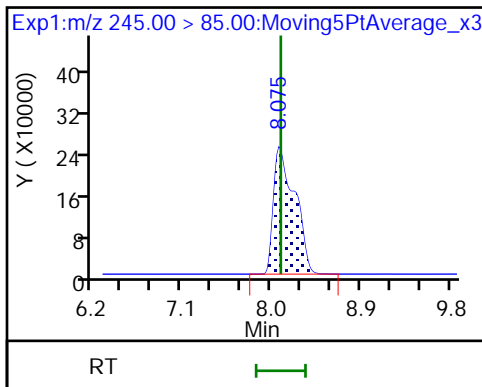
6 NVHOS (M)



7 PFO2HxA

8 PEPA

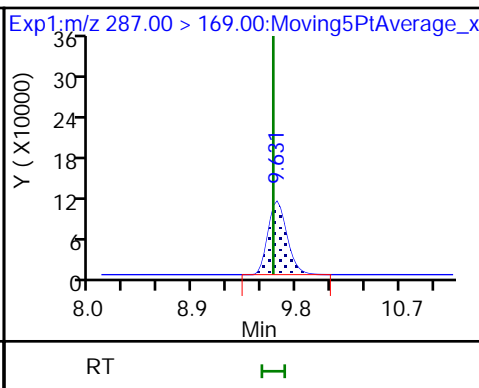
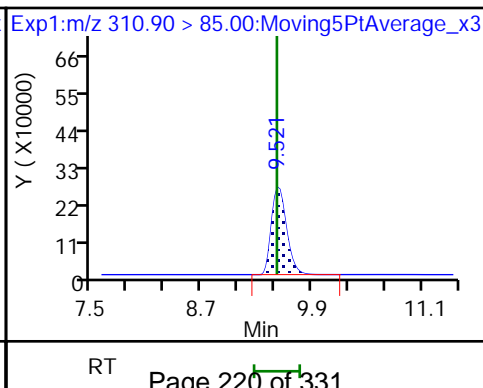
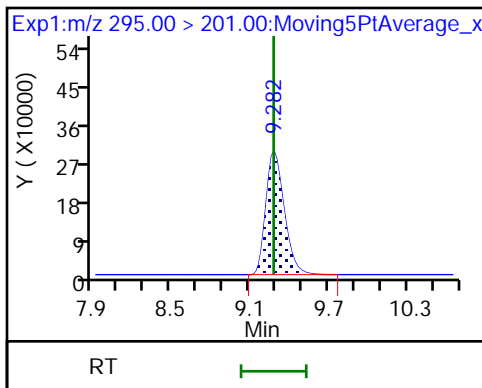
9 PES



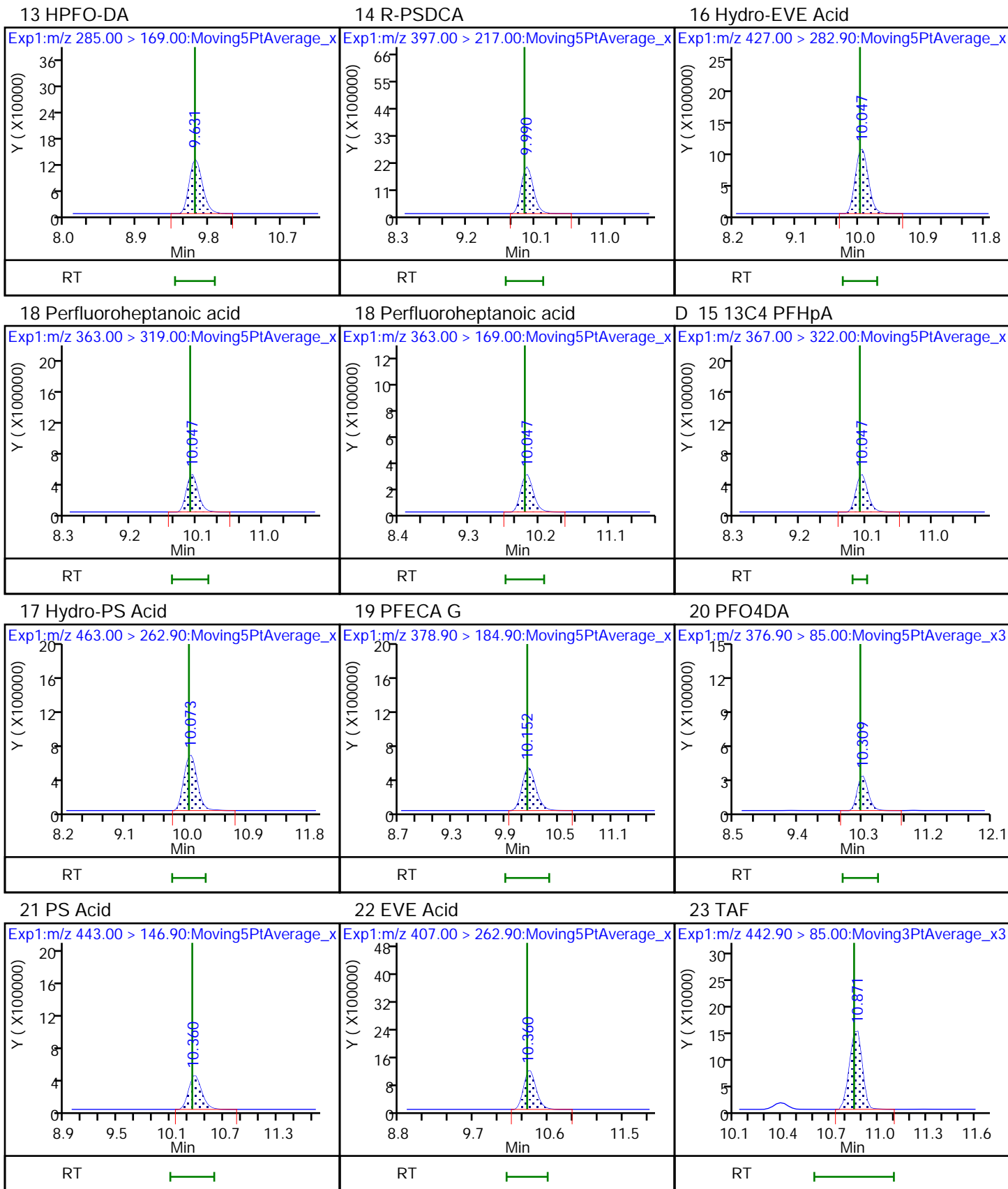
10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

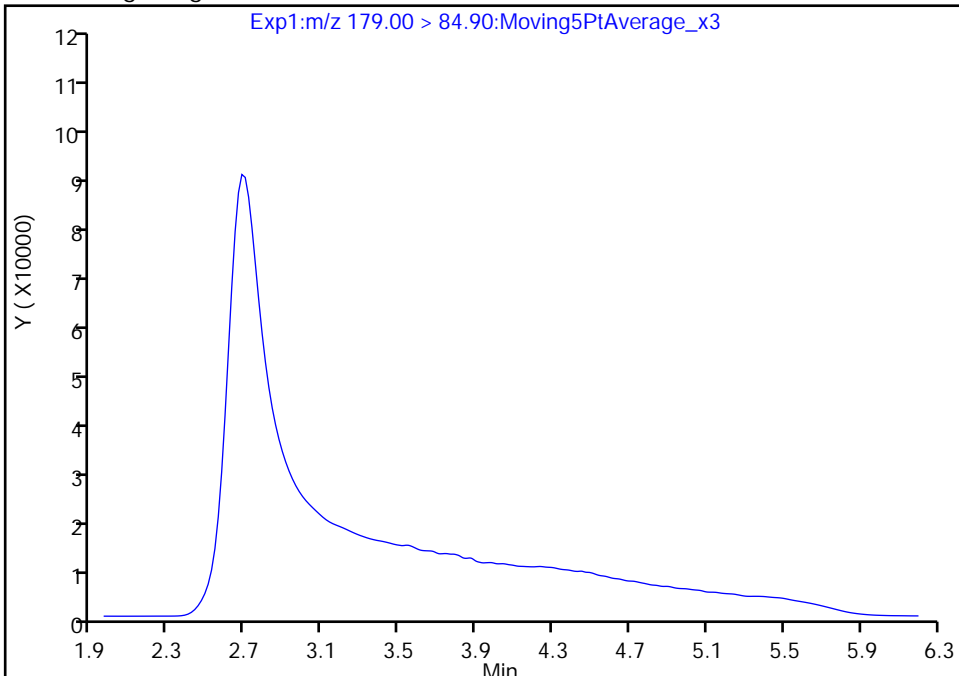
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Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

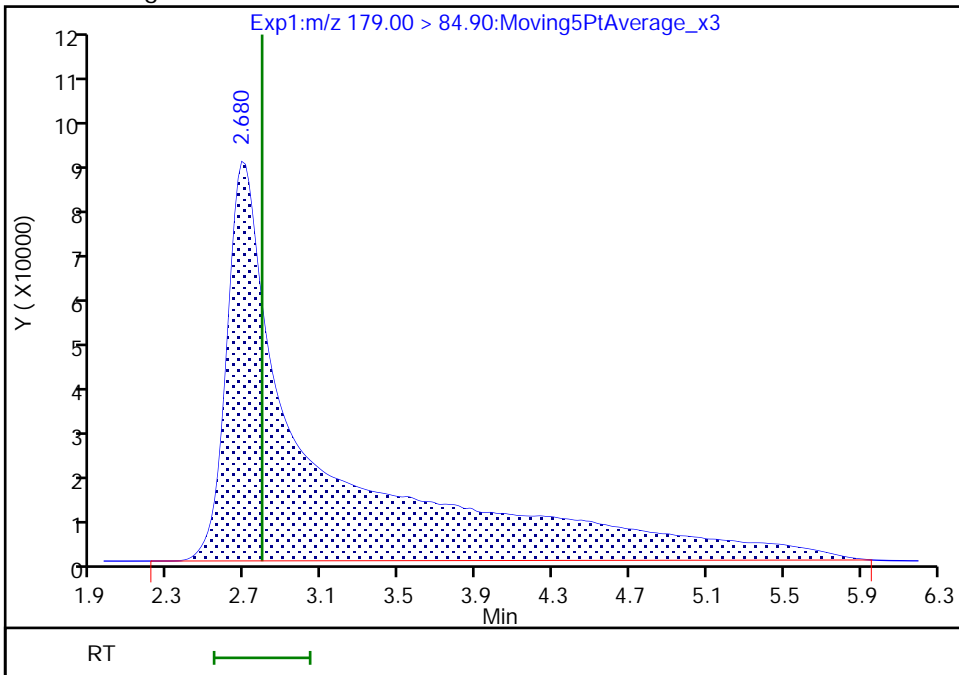
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.68  
Area: 2897339  
Amount: 0.234478  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

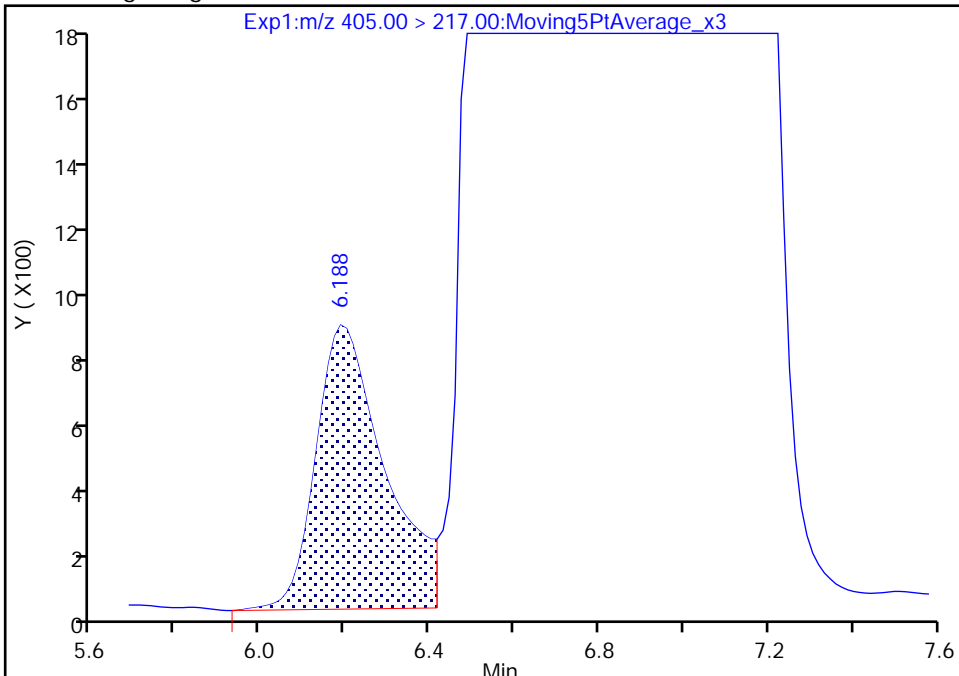
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

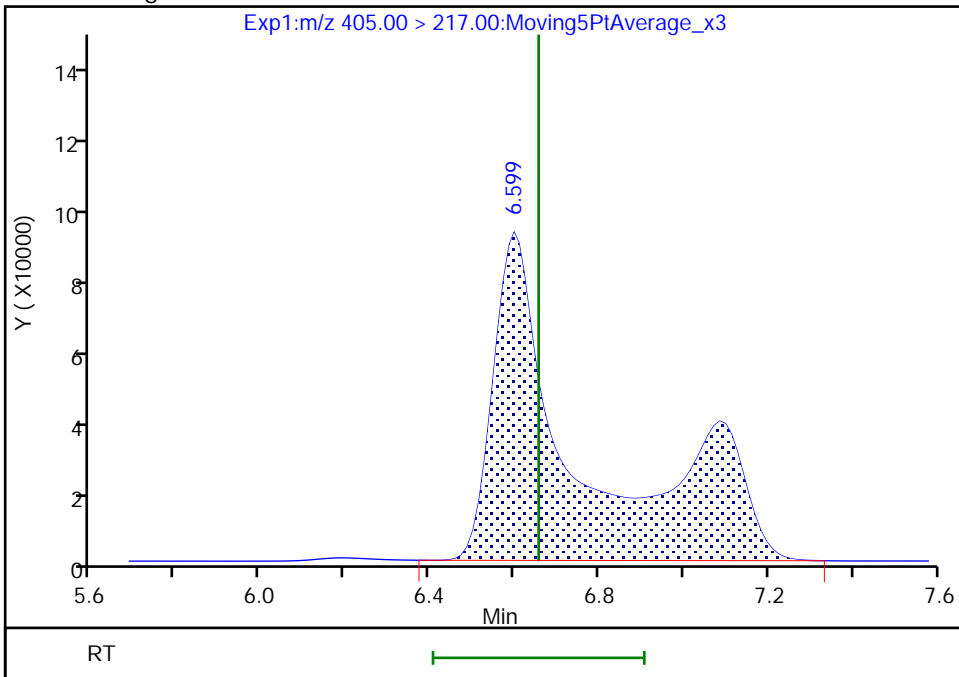
RT: 6.19  
Area: 9895  
Amount: 0.002440  
Amount Units: ng/ml

Processing Integration Results



RT: 6.60  
Area: 1290669  
Amount: 0.256853  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

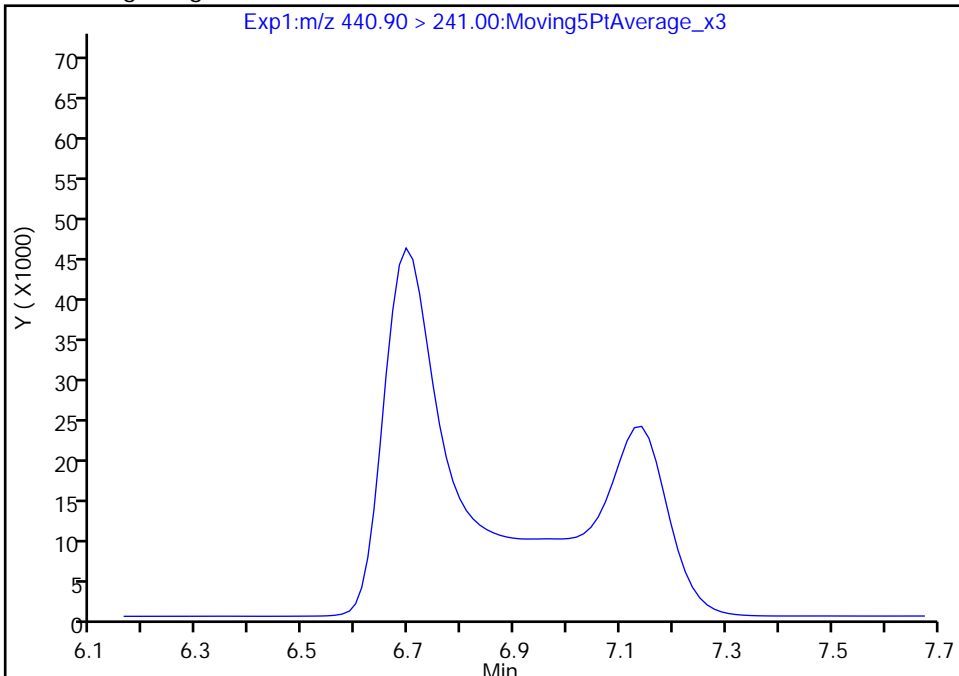
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

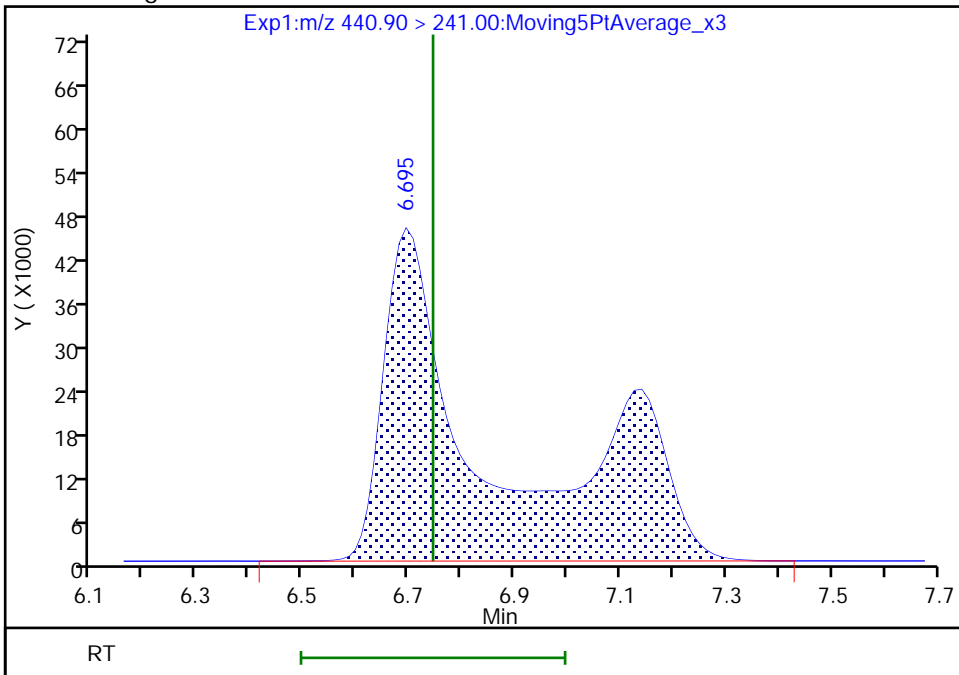
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.69  
Area: 660910  
Amount: 0.258816  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:40:54  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

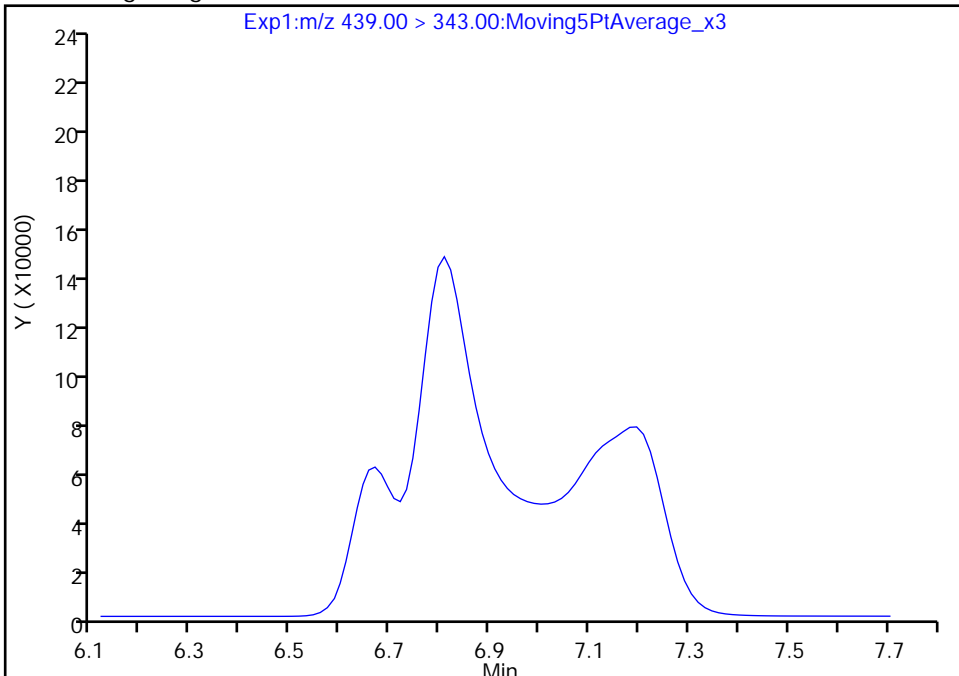
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

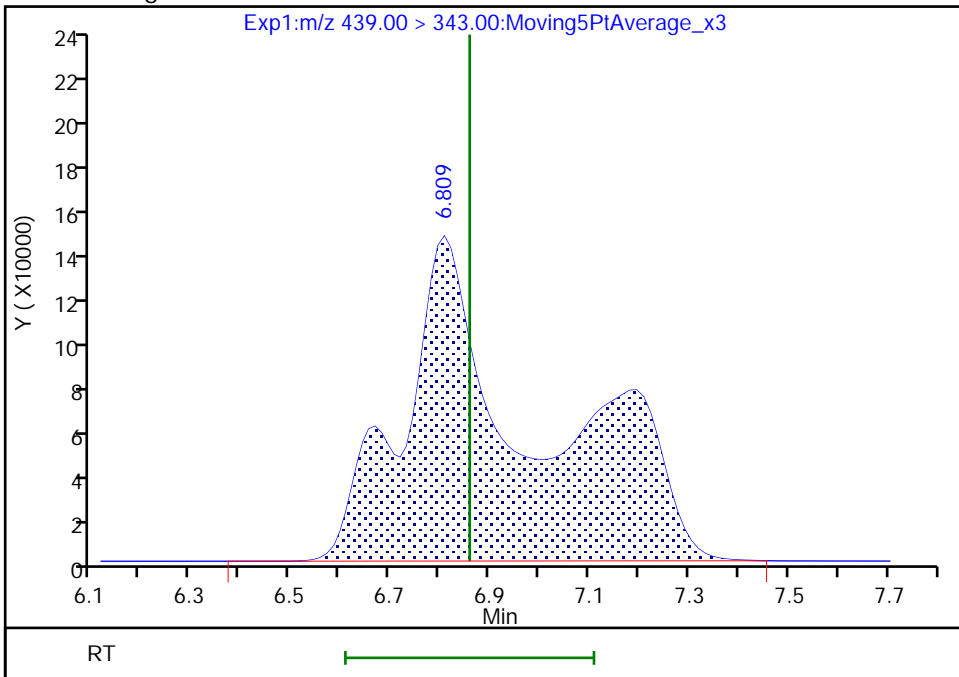
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.81  
Area: 2800615  
Amount: 0.245993  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

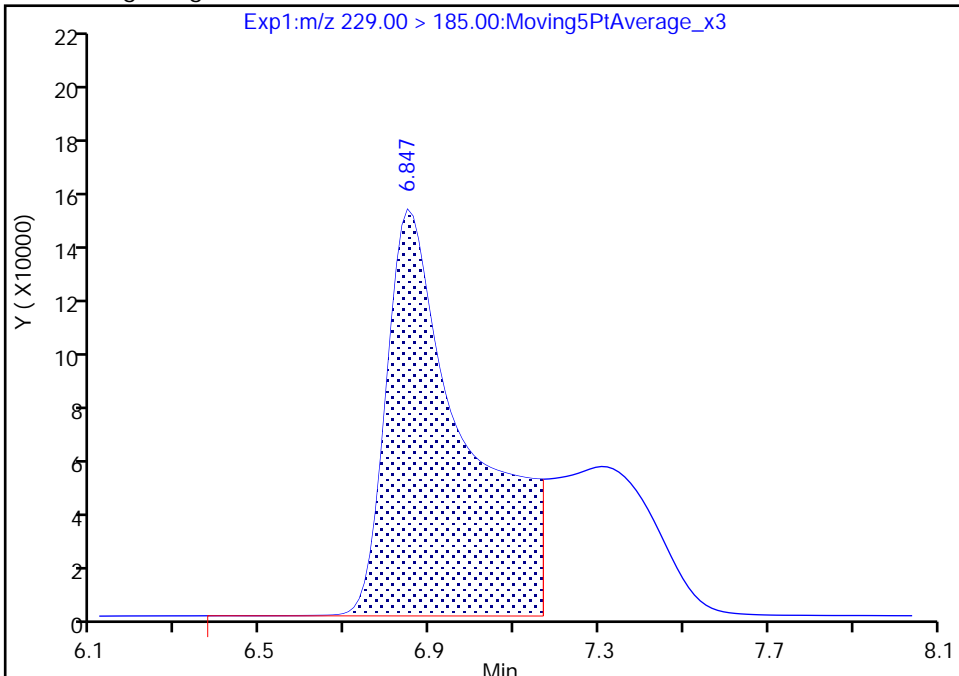
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

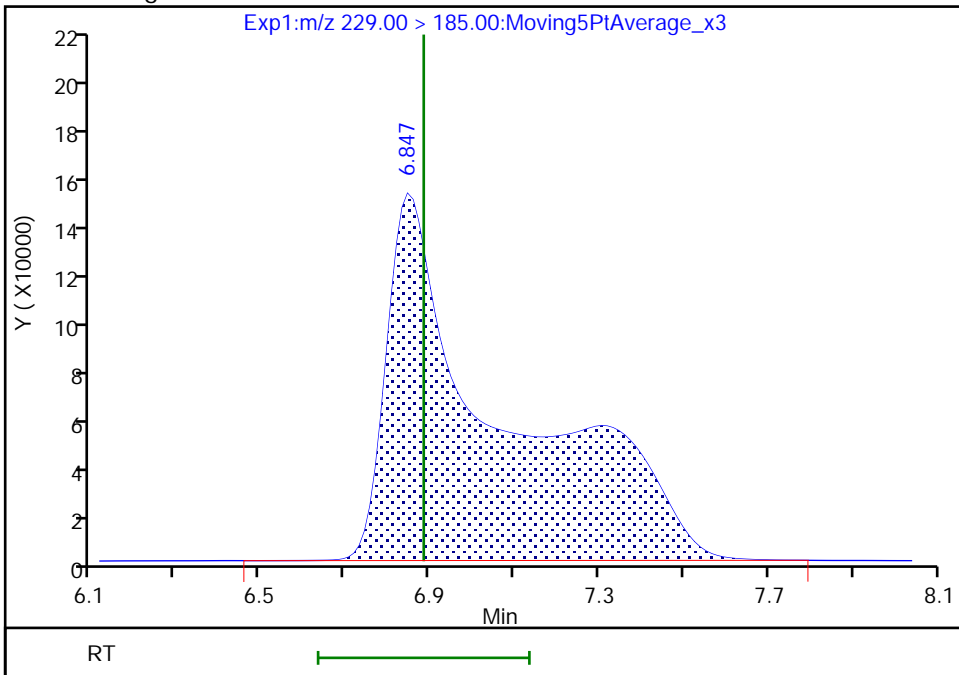
RT: 6.85  
Area: 1947618  
Amount: 0.175800  
Amount Units: ng/ml

Processing Integration Results



RT: 6.85  
Area: 2861316  
Amount: 0.249038  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

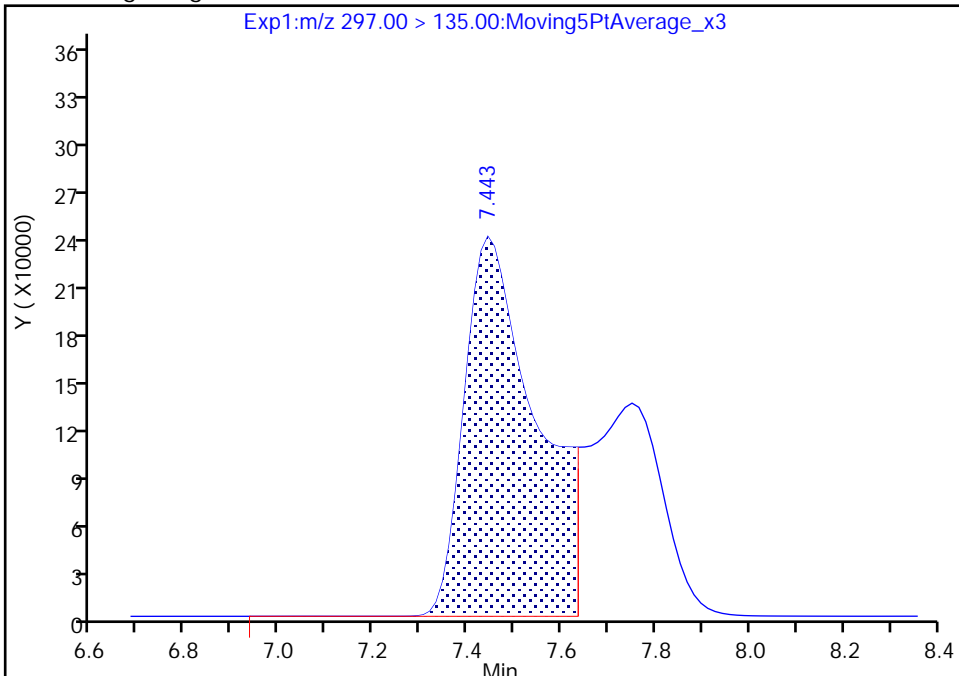
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_013.d  
Injection Date: 15-Dec-2020 22:50:16 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

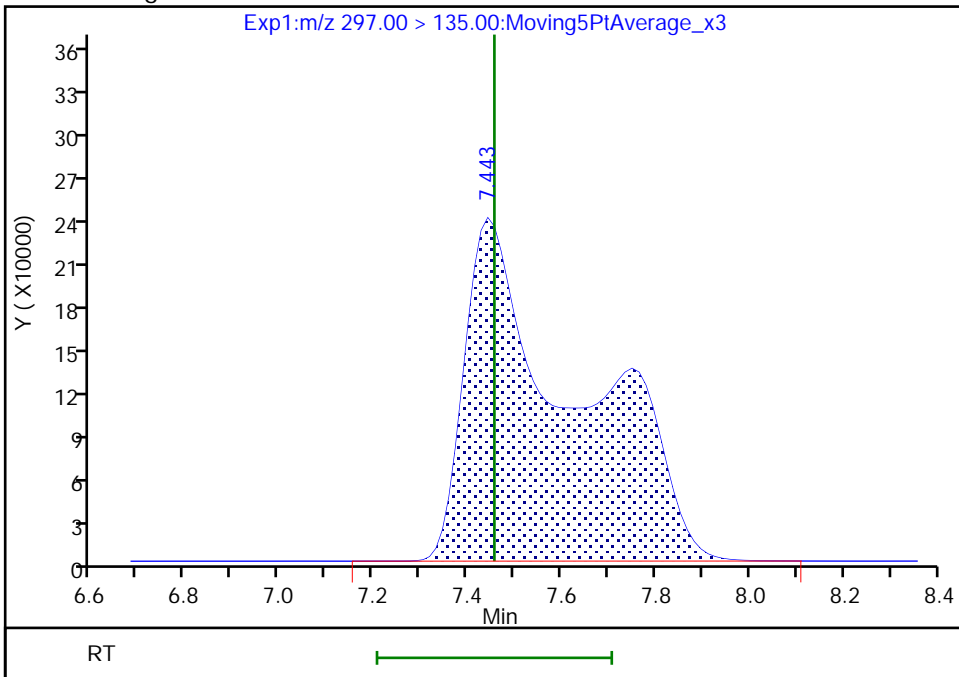
RT: 7.44  
Area: 2531086  
Amount: 0.182048  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 3970862  
Amount: 0.248045  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:11  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 15-Dec-2020 23:07:51 ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (37  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 10:39:09 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1641

First Level Reviewer: contrerese Date: 16-Dec-2020 09:42:15

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.715	2.785	-0.070		11572493	0.9365		93.7	27240	M
2 R-EVE										M
405.00 > 217.00	6.612	6.657	-0.045		5239045	1.04		104	20082	M
3 R-PSDA										M
440.90 > 241.00	6.708	6.746	-0.038		2882265	1.13		113	53015	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.822	6.860	-0.038		11769605	1.03		103	127508	M
5 PMPA										M
229.00 > 185.00	6.873	6.885	-0.012		11757457	1.02		102	11101	M
6 NVHOS										M
297.00 > 135.00	7.444	7.457	-0.013		15902147	0.99		99.3	88321	M
7 PFO2HxA										
245.00 > 85.00	8.078	8.094	-0.016		14299772	0.9799		98.0	89291	
8 PEPA										
278.90 > 234.90	8.745	8.739	0.006		9581725	1.01		101	40243	
9 PES										
314.90 > 135.00	9.035	9.044	-0.009		50045322	0.5700		57.0	368140	
10 PFECA B										
295.00 > 201.00	9.249	9.279	-0.030		10196243	0.9555		95.5	264520	
11 PFO3OA										
310.90 > 85.00	9.506	9.516	-0.010		11031957	0.9054		90.5	123825	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.616	9.599	0.017		1153177	0.2340		93.6	33156	
13 HPFO-DA										
285.00 > 169.00	9.616	9.627	-0.010	1.000	5017951	0.9567		95.7	109236	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.975	9.957	0.018		38545187	0.3602		36.0	141164	
16 Hydro-EVE Acid										
427.00 > 282.90	10.002	10.013	-0.011		37389456	0.6518		65.2	188365	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.002	10.013	-0.011	1.000	16274985	0.8557	Target=0.00	85.6	234566	
363.00 > 169.00	10.002	10.013	-0.011	1.000	10718930		1.52(0.00-0.00)	85.6	185819	
D 15 13C4 PFHpA										
367.00 > 322.00	10.002	10.013	-0.011		4753249	0.2091		83.6	138104	
17 Hydro-PS Acid										
463.00 > 262.90	10.031	10.042	-0.011		30040413	0.8410		84.1	237920	
19 PFECA G										
378.90 > 184.90	10.145	10.145	0.0		13147764	0.5200		52.0	373901	
20 PFO4DA										
376.90 > 85.00	10.287	10.269	0.018		12159262	0.9031		90.3	53084	
21 PS Acid										
443.00 > 146.90	10.344	10.344	0.0		12275588	0.7427		74.3	156587	
22 EVE Acid										
407.00 > 262.90	10.344	10.344	0.0		26500543	0.4826		48.3	129575	
23 TAF										
442.90 > 85.00	10.845	10.847	-0.002		2995282	0.8360		83.6	2996	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD10\_00037

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Injection Date: 15-Dec-2020 23:07:51

Instrument ID: A7\_N

Lims ID: IC STD 10

Client ID:

Operator ID: abservice

ALS Bottle#: 14

Worklist Smp#: 12

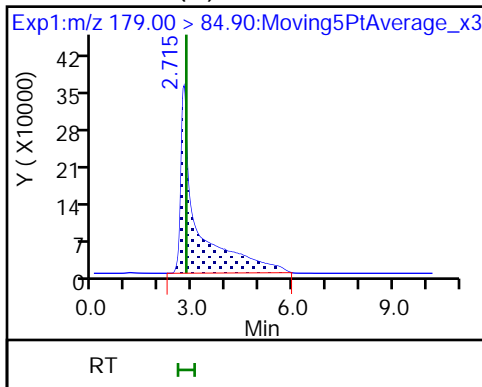
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

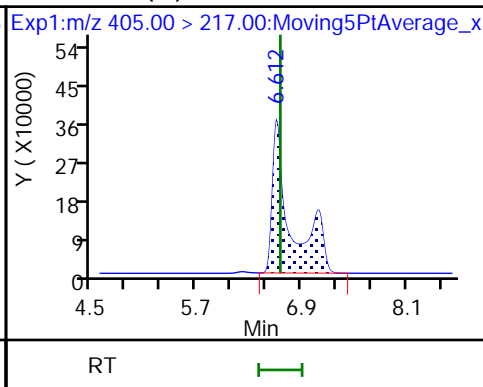
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

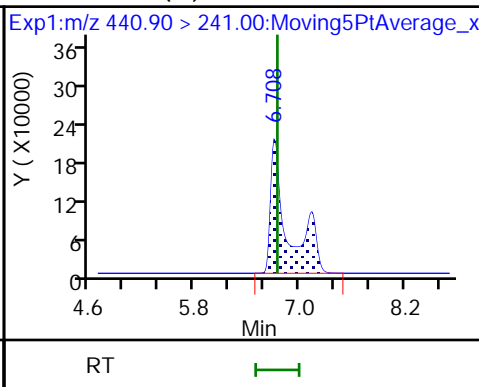
1 PFMOAA (M)



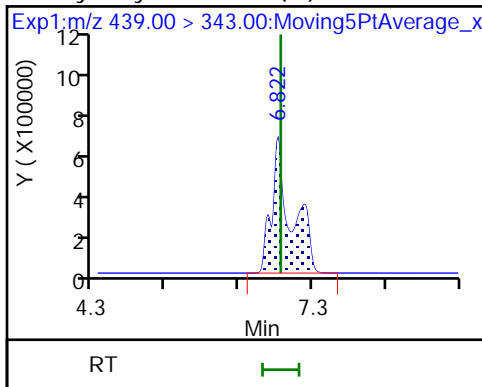
2 R-EVE (M)



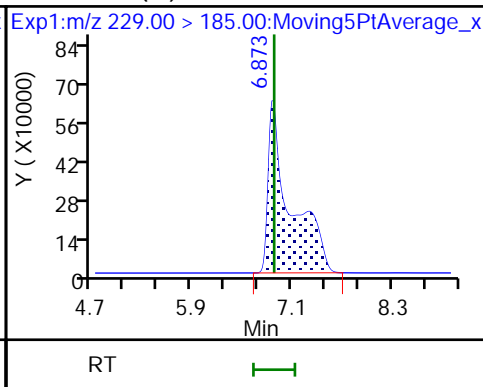
3 R-PSDA (M)



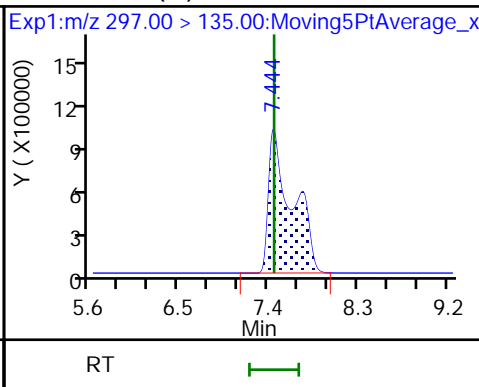
4 Hydrolyzed PSDA (M)



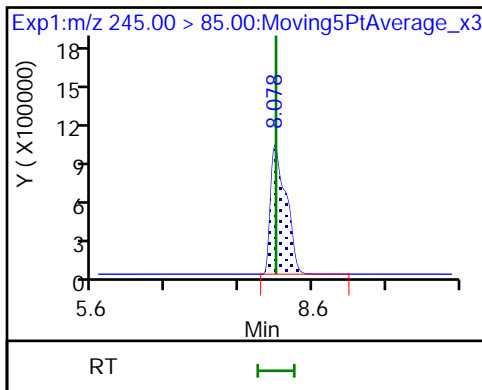
5 PMPA (M)



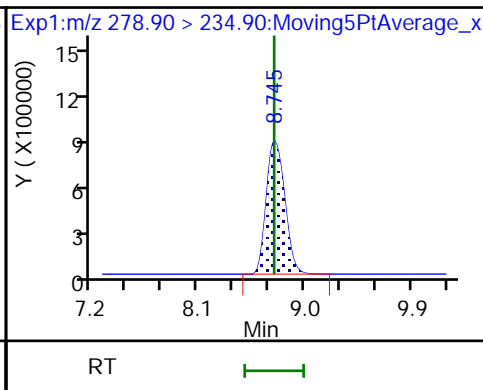
6 NVHOS (M)



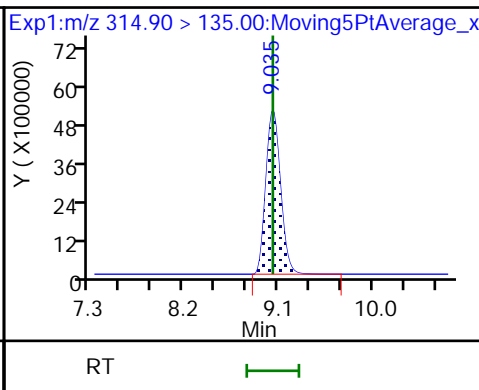
7 PFO2HxA



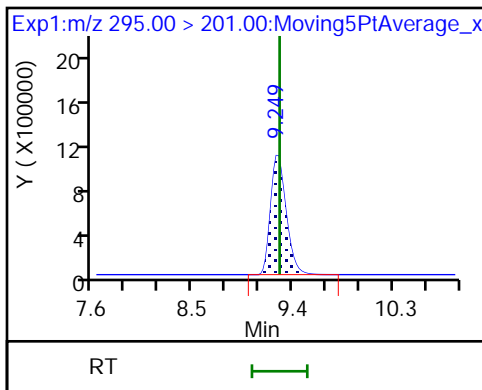
8 PEPA



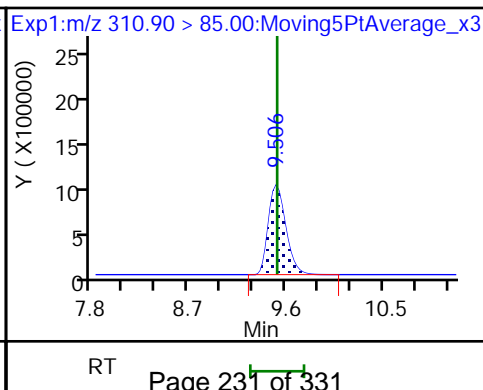
9 PES



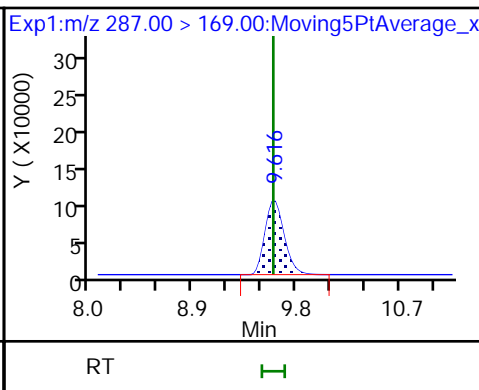
10 PFECA B

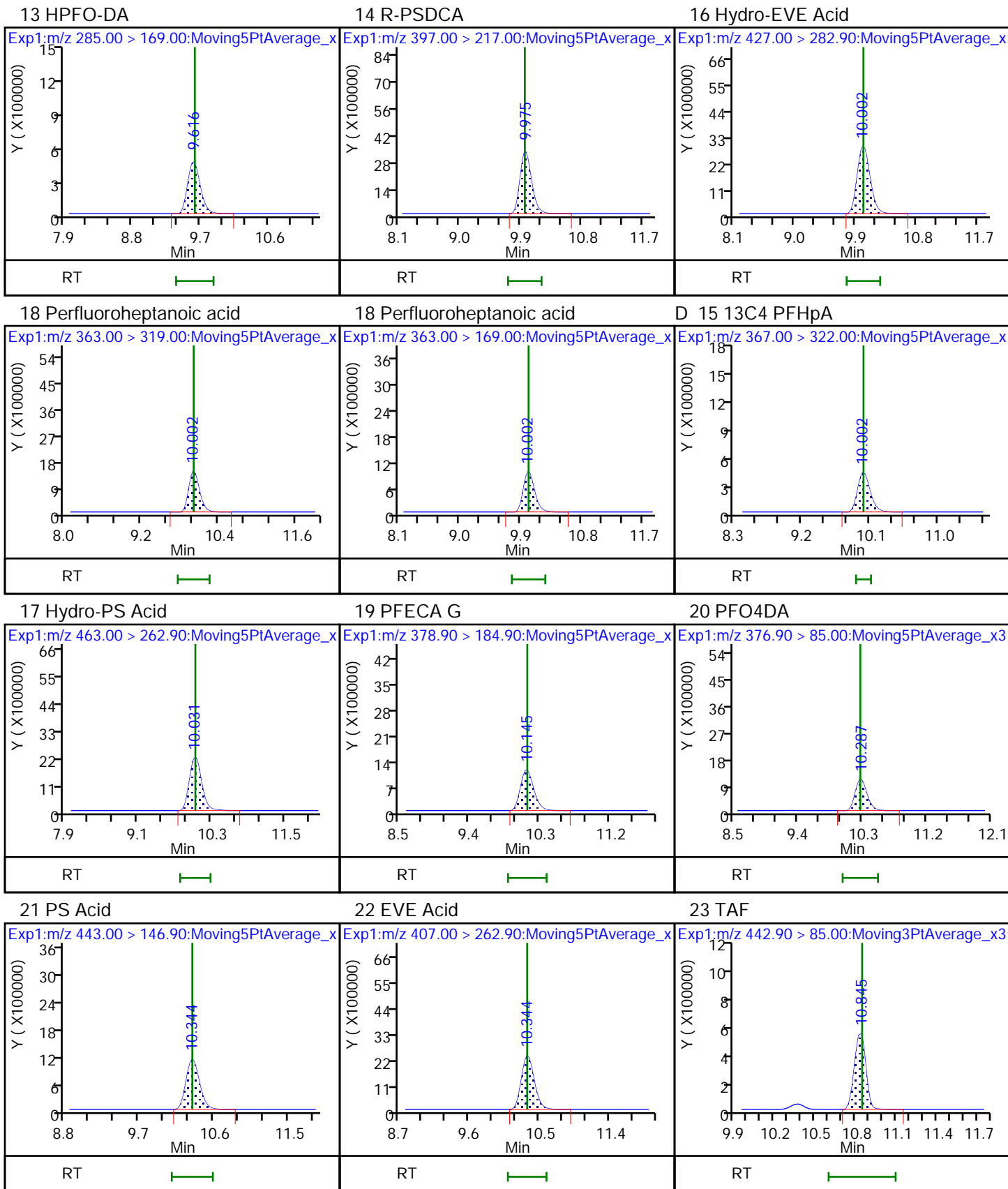


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

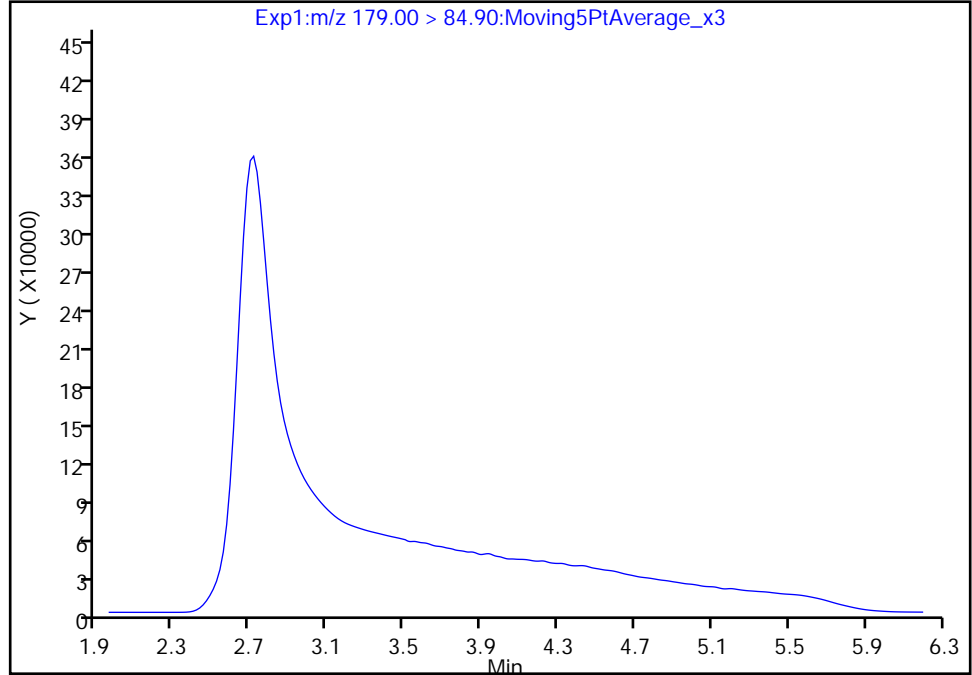
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

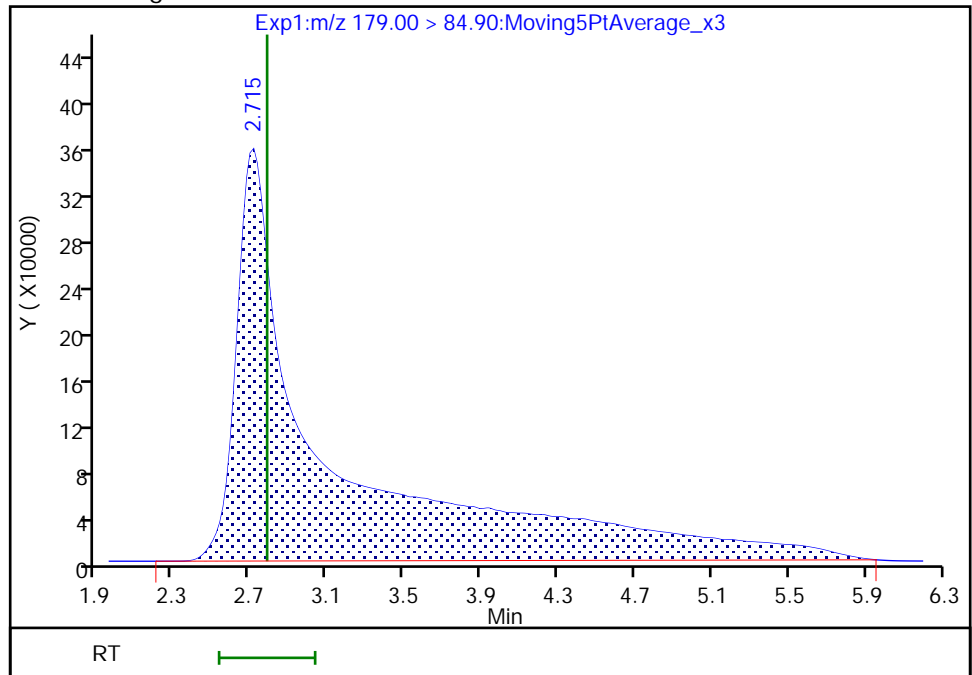
Not Detected  
Expected RT: 2.79

Processing Integration Results



Manual Integration Results

RT: 2.72  
Area: 11572493  
Amount: 0.936549  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:41:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

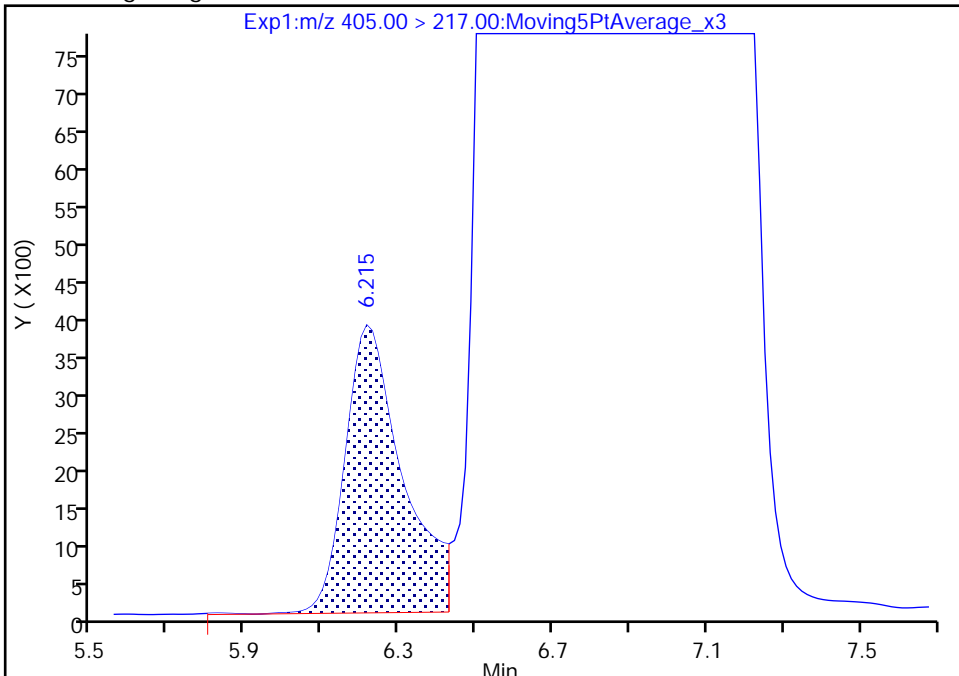
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
 Lims ID: IC STD 10  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

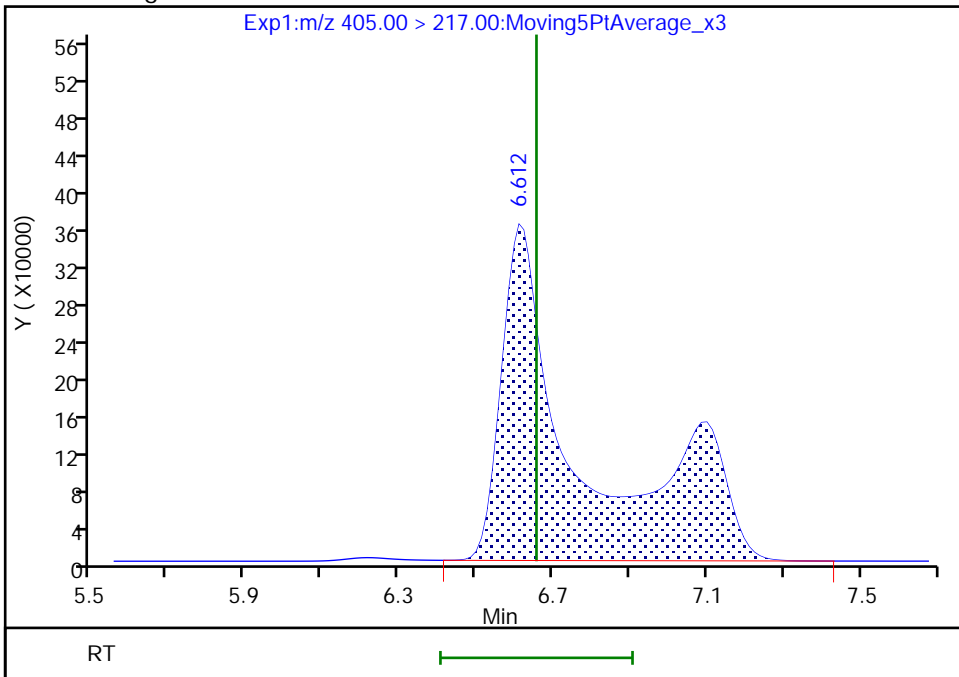
RT: 6.22  
 Area: 39782  
 Amount: 0.009221  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.61  
 Area: 5239045  
 Amount: 1.042610  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

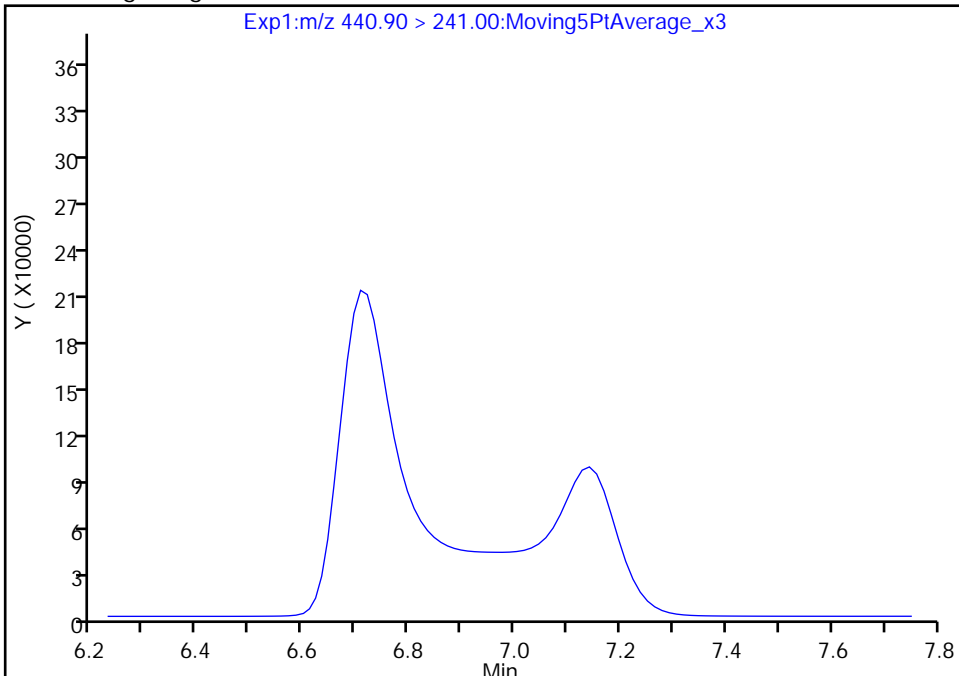
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
 Lims ID: IC STD 10  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

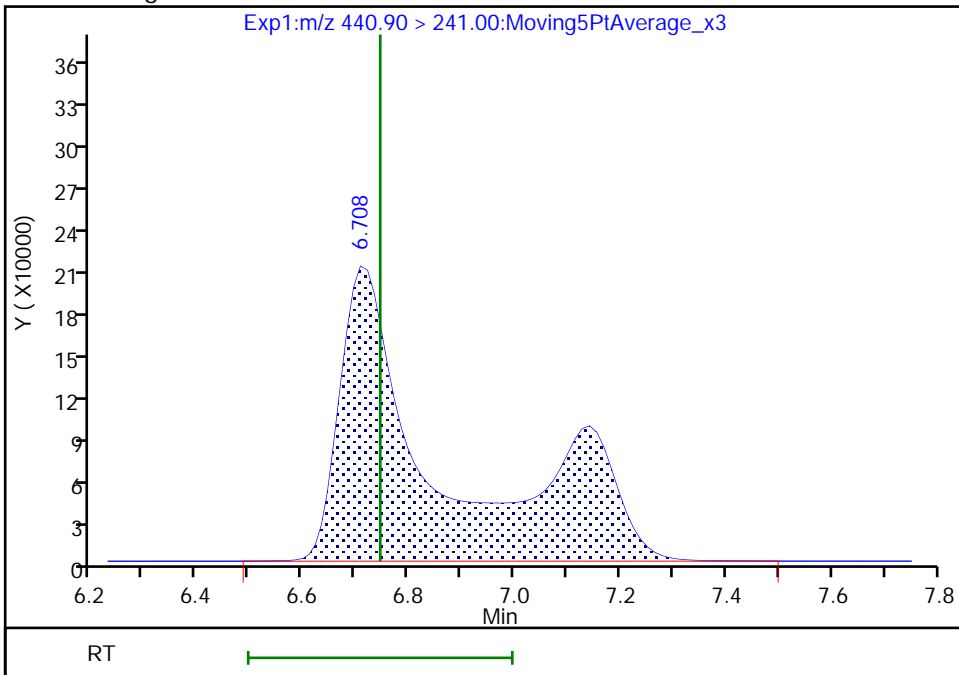
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.71  
 Area: 2882265  
 Amount: 1.128709  
 Amount Units: ng/ml





Eurofins TestAmerica, Sacramento

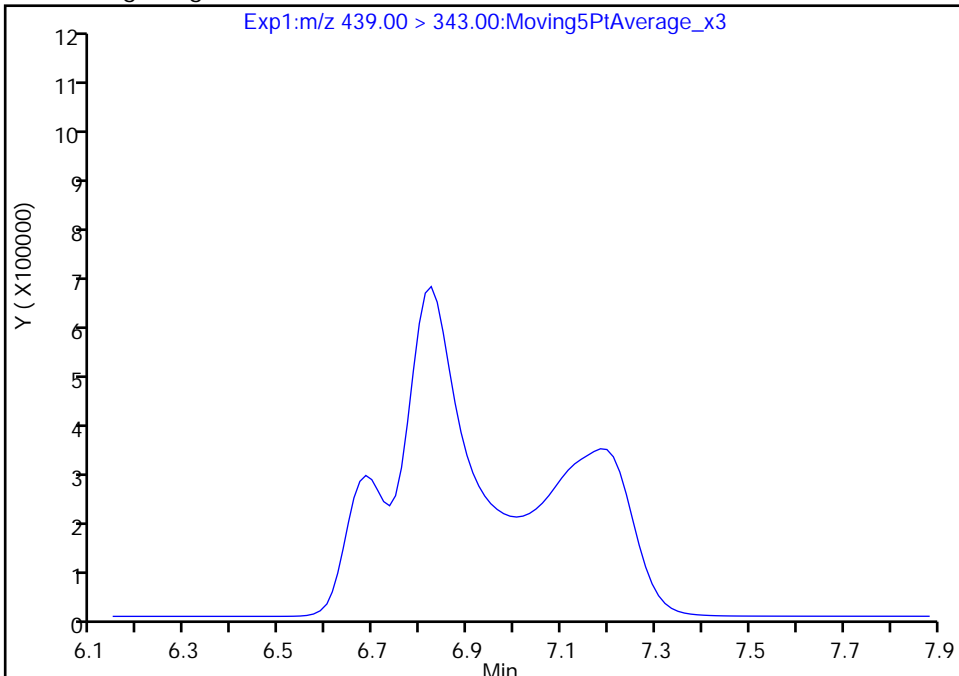
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Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

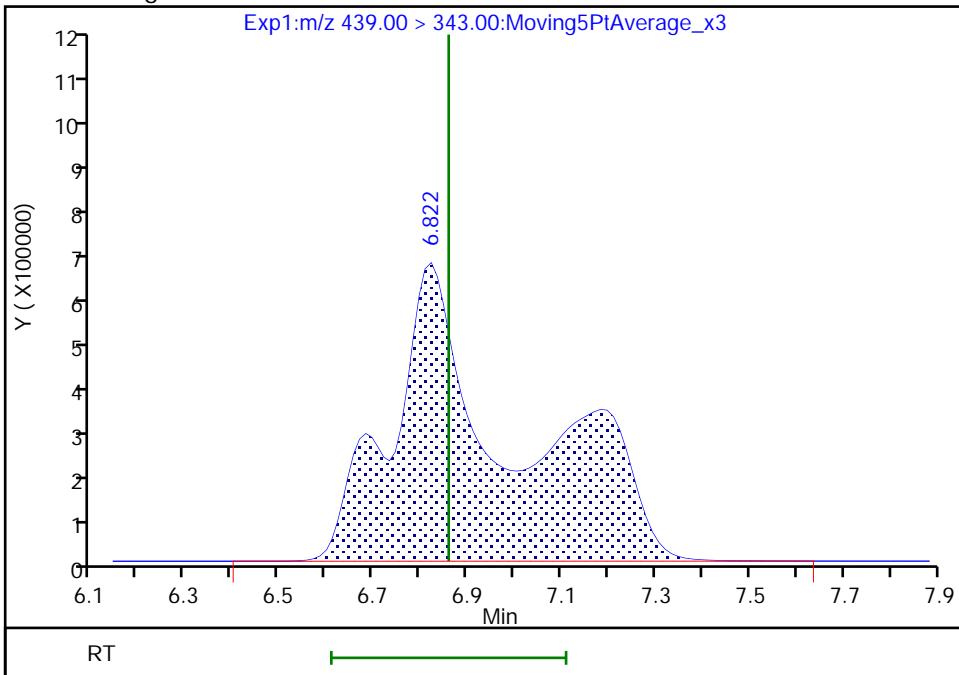
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 6.82  
Area: 11769605  
Amount: 1.033789  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 09:41:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

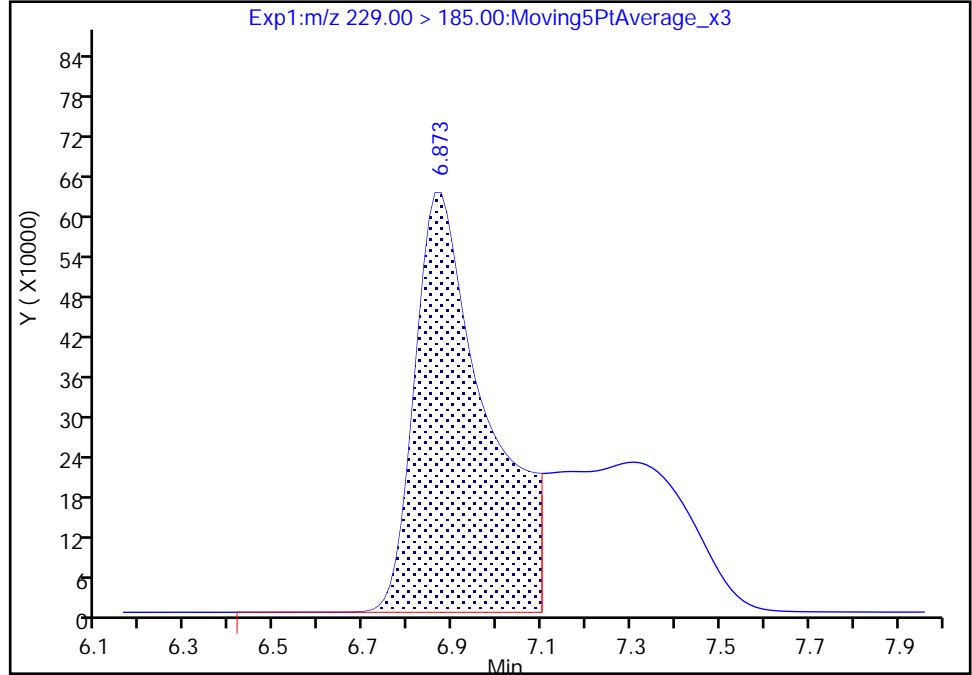
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

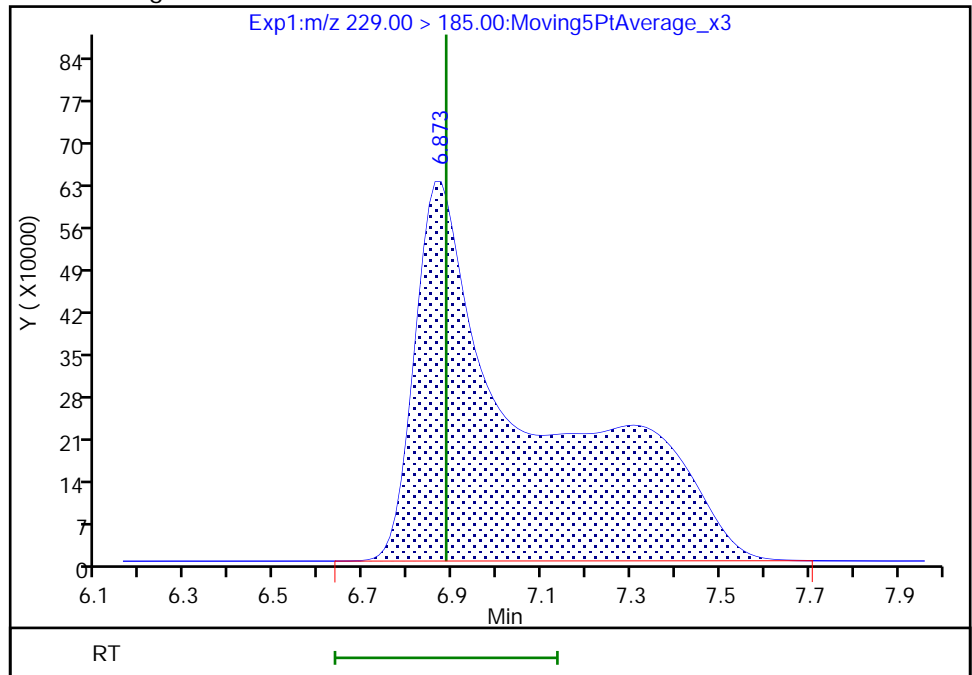
RT: 6.87  
Area: 7050611  
Amount: 0.626089  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 11757457  
Amount: 1.023325  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:41:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Euofins TestAmerica, Sacramento

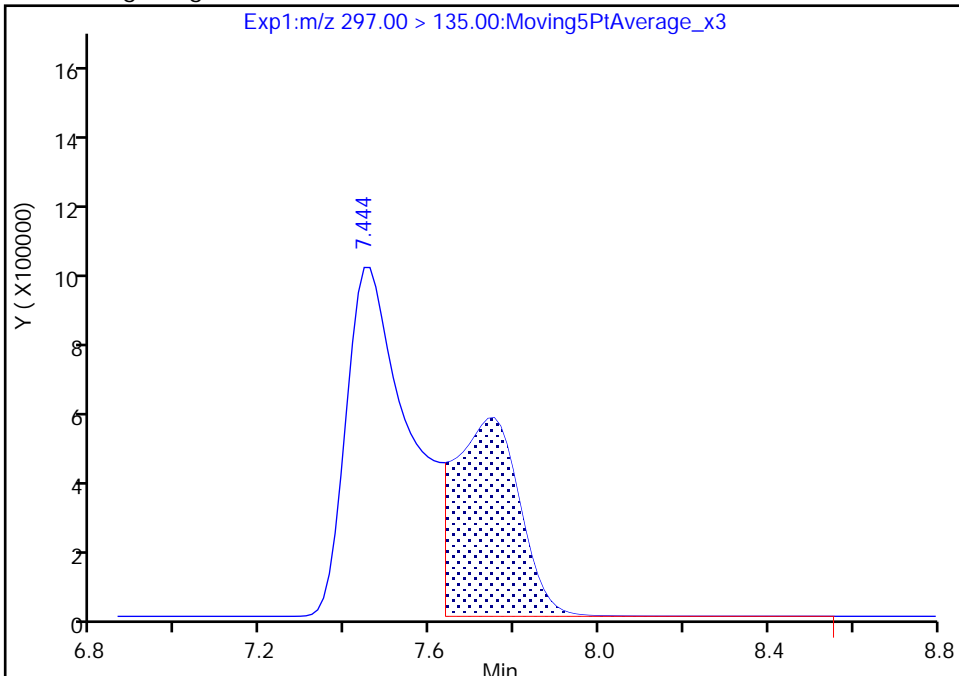
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
Injection Date: 15-Dec-2020 23:07:51 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

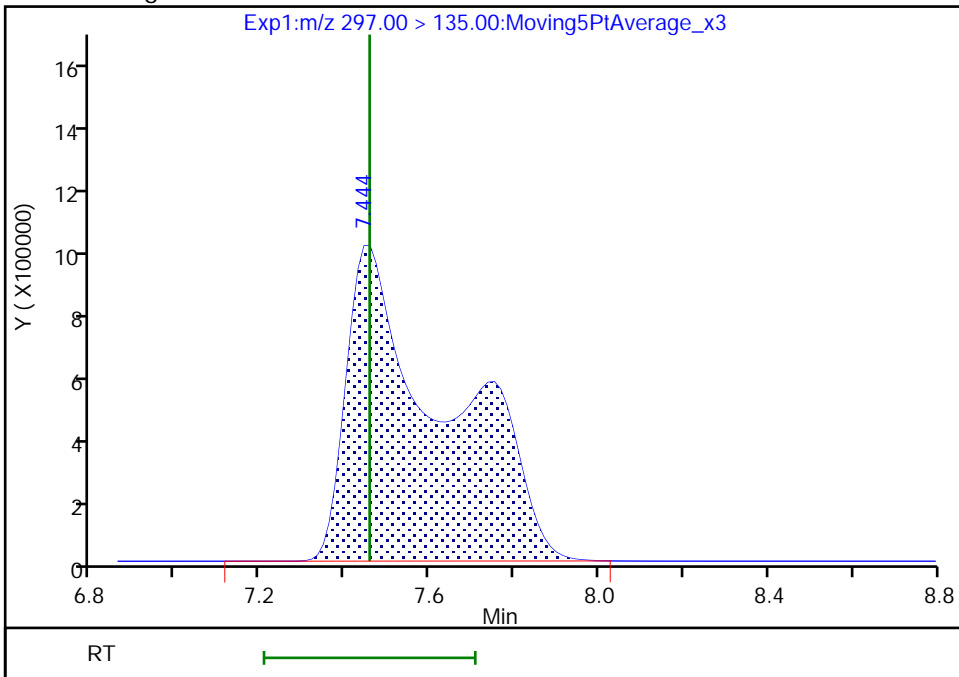
RT: 7.44  
Area: 5796390  
Amount: 0.408444  
Amount Units: ng/ml

Processing Integration Results



RT: 7.44  
Area: 15902147  
Amount: 0.993347  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 16-Dec-2020 09:42:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Calibration

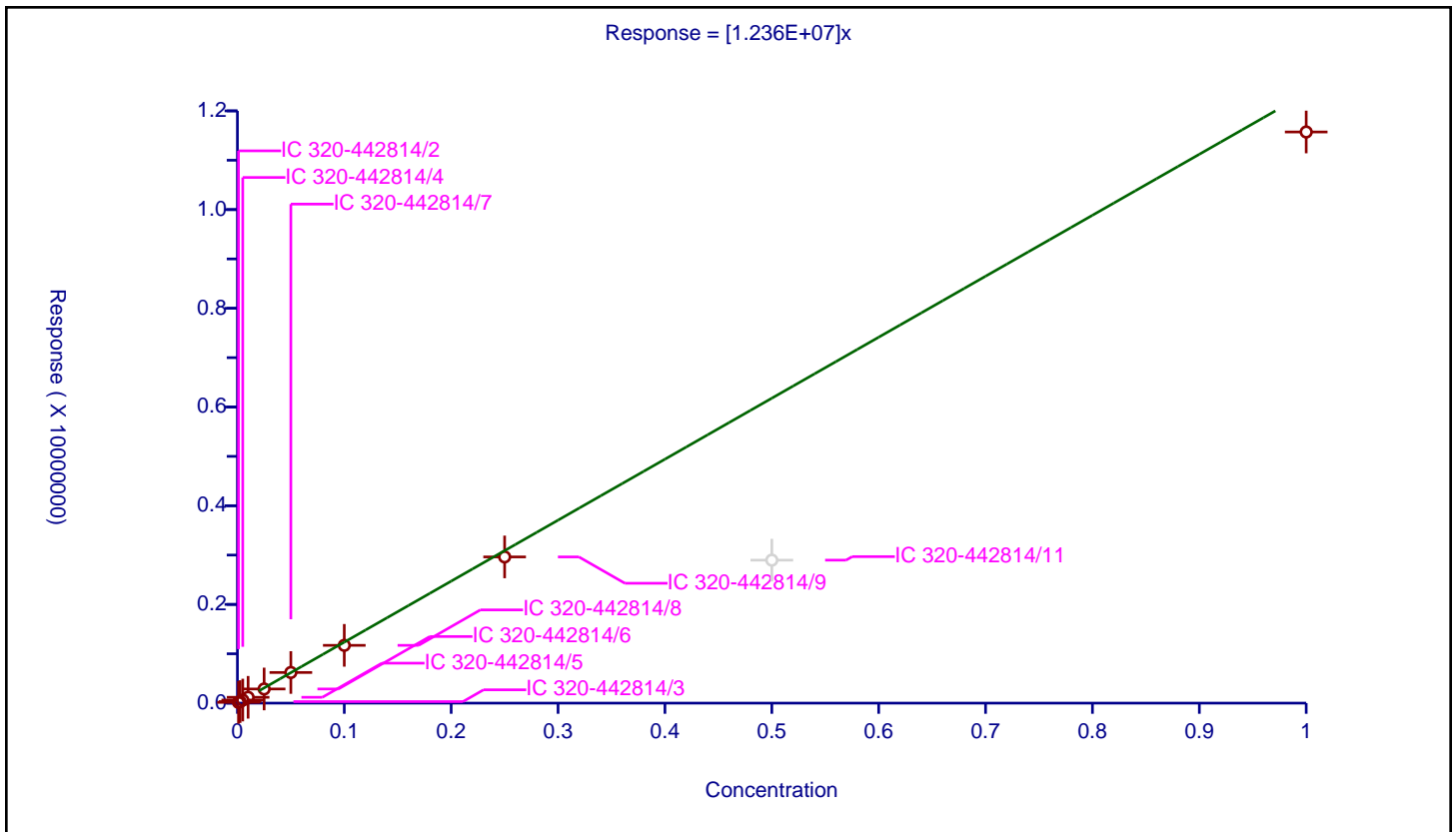
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.236E+07

Error Coefficients	
Standard Error:	282000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15572.0			15572000.0	Y
2	IC 320-442814/3	0.0025	30814.0			12325600.0	Y
3	IC 320-442814/4	0.005	62326.0			12465200.0	Y
4	IC 320-442814/5	0.01	118183.0			11818300.0	Y
5	IC 320-442814/6	0.025	286892.0			11475680.0	Y
6	IC 320-442814/7	0.05	621014.0			12420280.0	Y
7	IC 320-442814/8	0.1	1170891.0			11708910.0	Y
8	IC 320-442814/9	0.25	2962580.0			11850320.0	Y
9	IC 320-442814/11	0.5	2897339.0			5794678.0	N
10	IC 320-442814/12	1.0	11572493.0			11572493.0	Y



**Calibration**

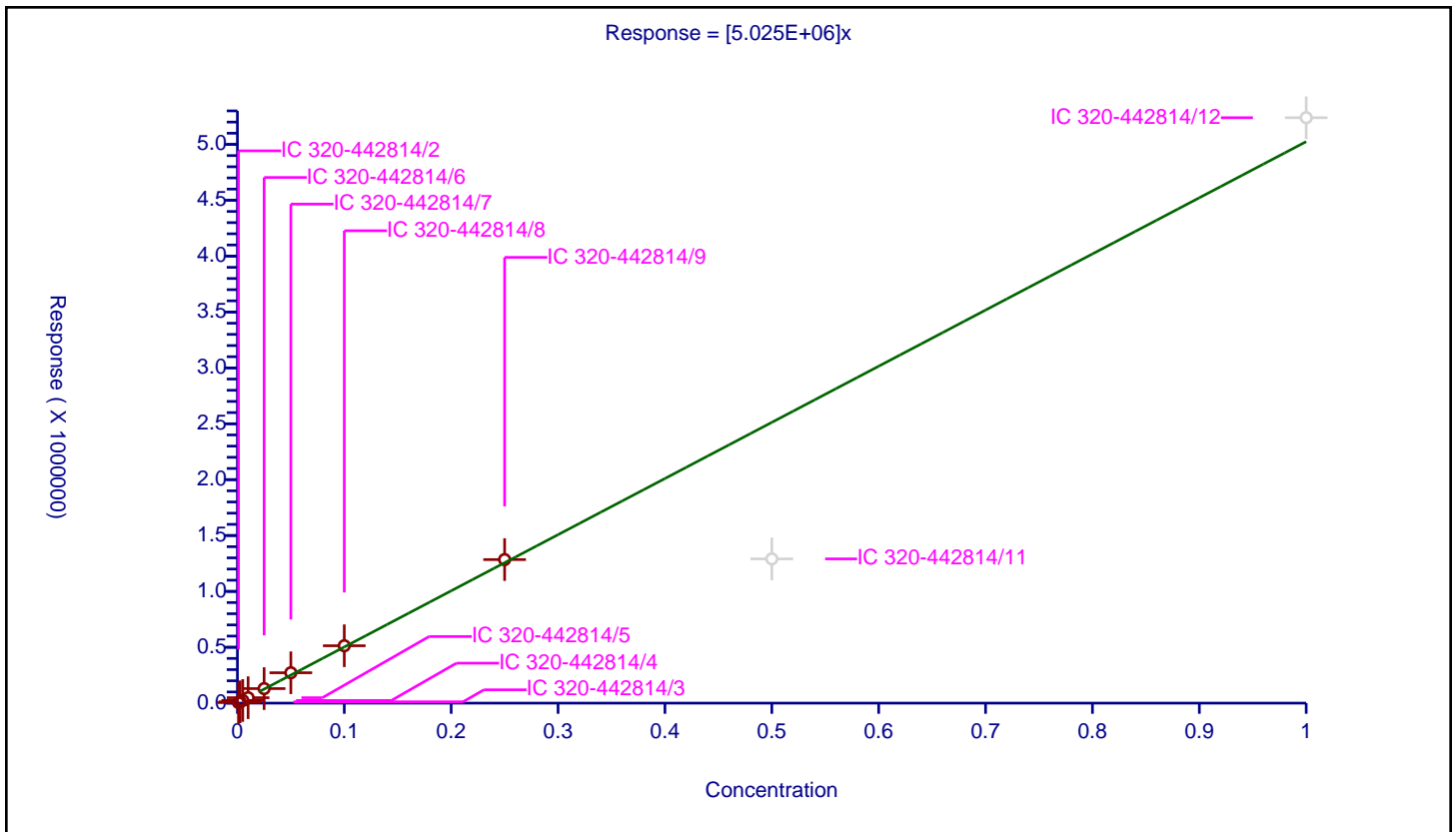
/ R-EVE

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	5.025E+06

Error Coefficients	
Standard Error:	14000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	5033.0			5033000.0	Y
2	IC 320-442814/3	0.0025	11679.0			4671600.0	Y
3	IC 320-442814/4	0.005	23702.0			4740400.0	Y
4	IC 320-442814/5	0.01	48470.0			4847000.0	Y
5	IC 320-442814/6	0.025	129927.0			5197080.0	Y
6	IC 320-442814/7	0.05	271839.0			5436780.0	Y
7	IC 320-442814/8	0.1	513487.0			5134870.0	Y
8	IC 320-442814/9	0.25	1284679.0			5138716.0	Y
9	IC 320-442814/11	0.5	1290669.0			2581338.0	N
10	IC 320-442814/12	1.0	5239045.0			5239045.0	N



Calibration

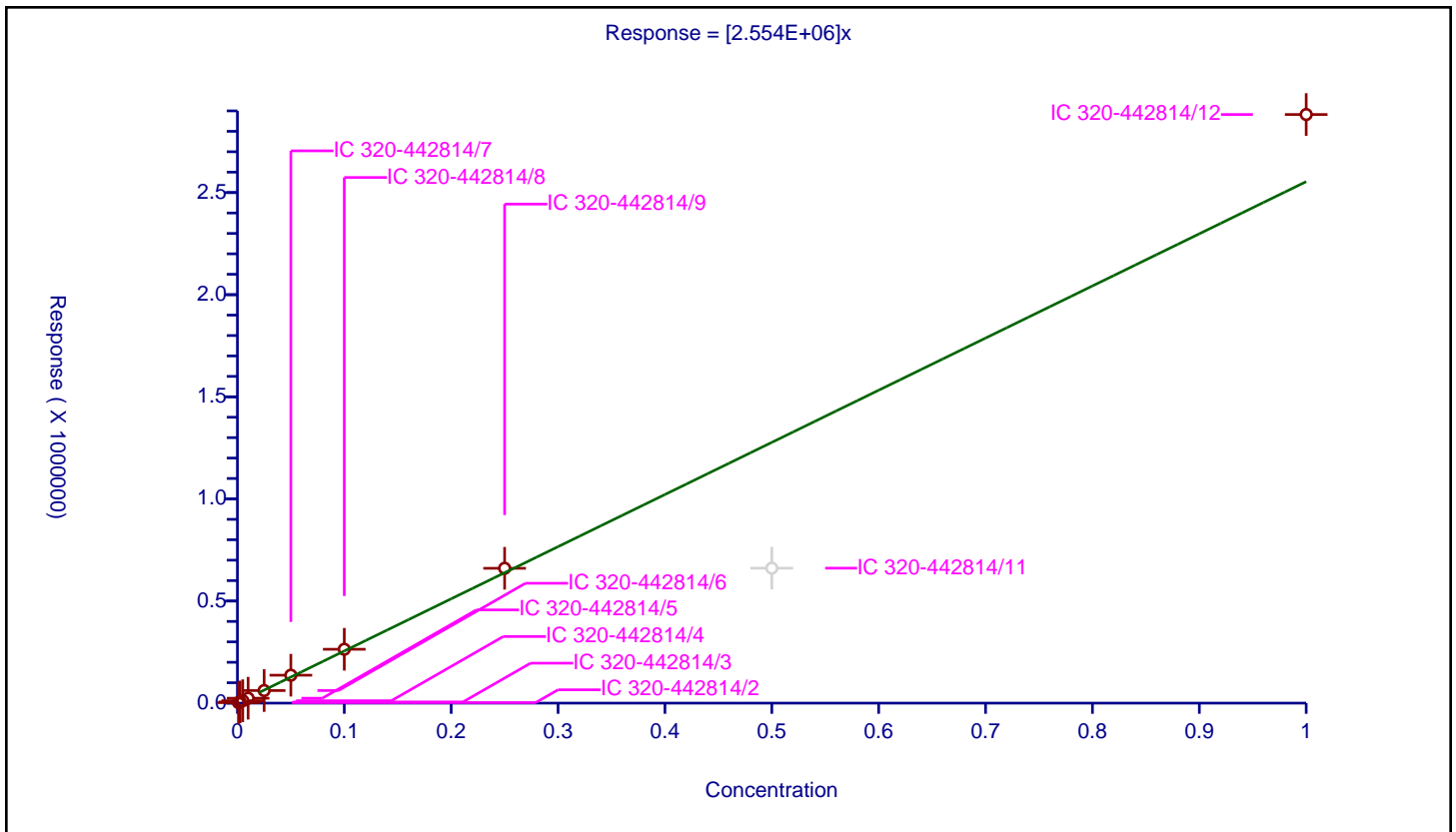
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.554E+06

Error Coefficients	
Standard Error:	117000
Relative Standard Error:	7.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	2507.0			2507000.0	Y
2	IC 320-442814/3	0.0025	5860.0			2344000.0	Y
3	IC 320-442814/4	0.005	11821.0			2364200.0	Y
4	IC 320-442814/5	0.01	24062.0			2406200.0	Y
5	IC 320-442814/6	0.025	61642.0			2465680.0	Y
6	IC 320-442814/7	0.05	136730.0			2734600.0	Y
7	IC 320-442814/8	0.1	263743.0			2637430.0	Y
8	IC 320-442814/9	0.25	660243.0			2640972.0	Y
9	IC 320-442814/11	0.5	660910.0			1321820.0	N
10	IC 320-442814/12	1.0	2882265.0			2882265.0	Y



**Calibration**

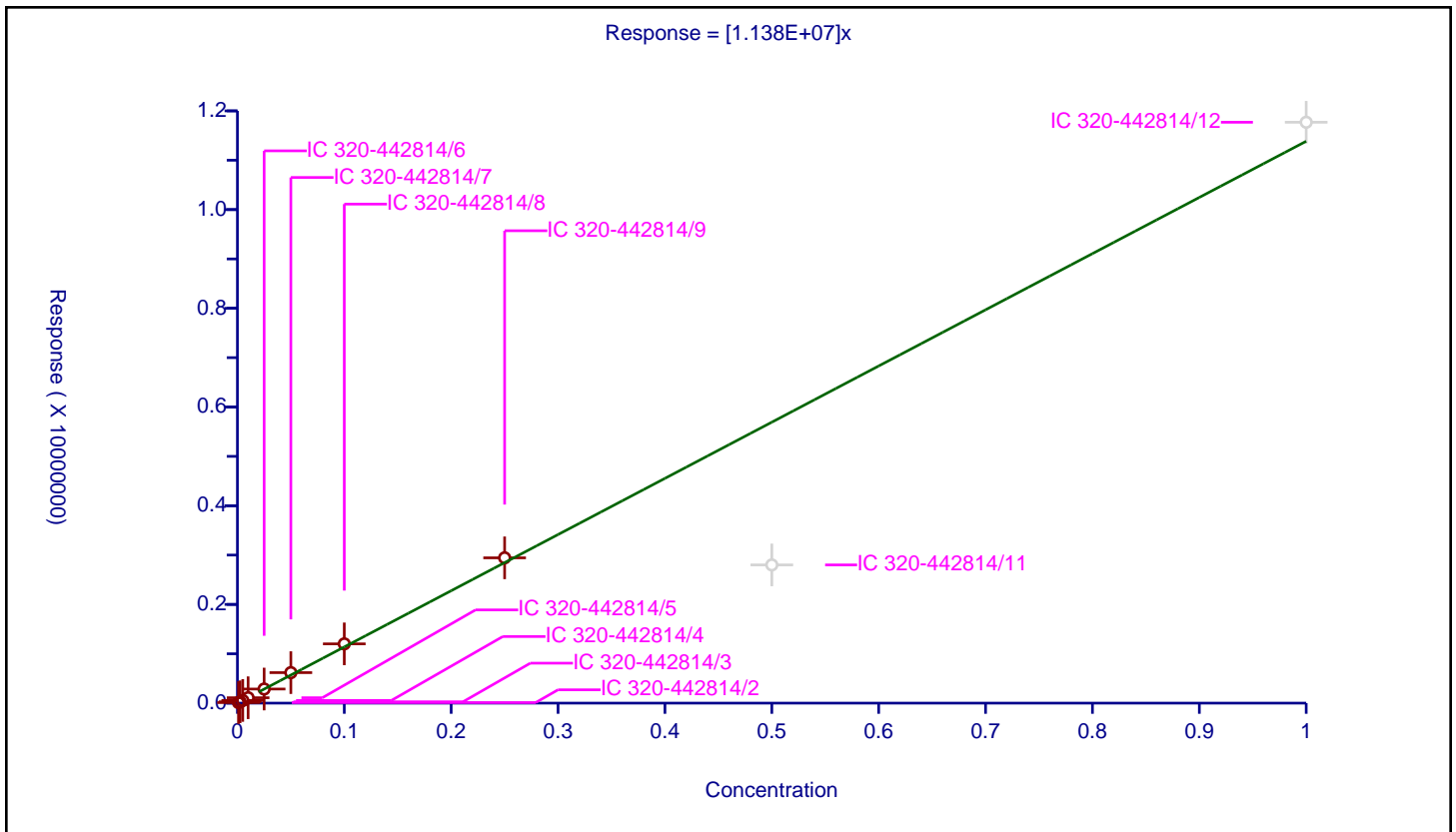
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.138E+07

Error Coefficients	
Standard Error:	47600
Relative Standard Error:	5.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	10806.0			10806000.0	Y
2	IC 320-442814/3	0.0025	27373.0			10949200.0	Y
3	IC 320-442814/4	0.005	54113.0			10822600.0	Y
4	IC 320-442814/5	0.01	109182.0			10918200.0	Y
5	IC 320-442814/6	0.025	285958.0			11438320.0	Y
6	IC 320-442814/7	0.05	618080.0			12361600.0	Y
7	IC 320-442814/8	0.1	1200781.0			12007810.0	Y
8	IC 320-442814/9	0.25	2943913.0			11775652.0	Y
9	IC 320-442814/11	0.5	2800615.0			5601230.0	N
10	IC 320-442814/12	1.0	11769605.0			11769605.0	N



Calibration

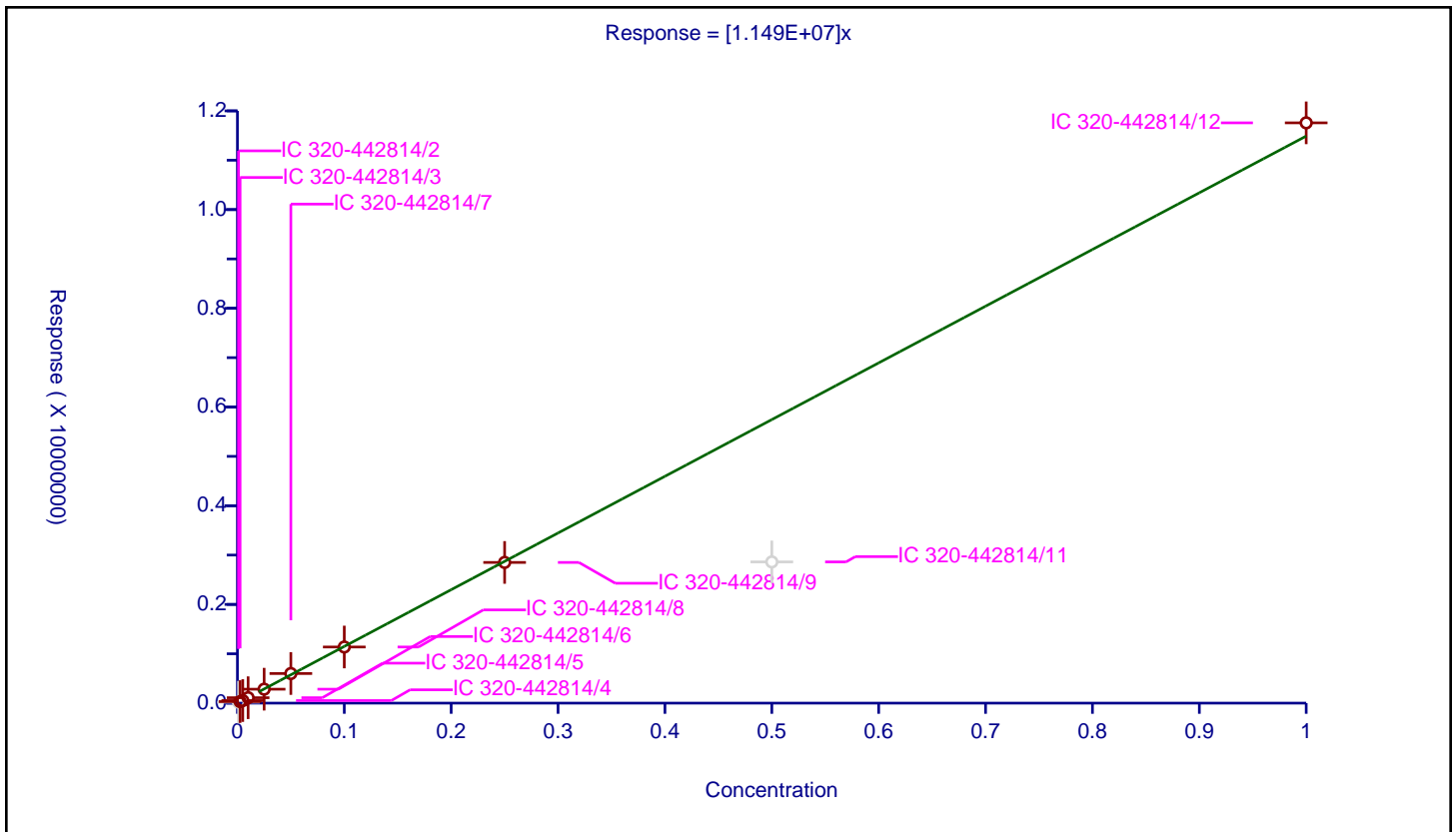
/ PMPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.149E+07

Error Coefficients	
Standard Error:	102000
Relative Standard Error:	5.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	19682.0			19682000.0	N
2	IC 320-442814/3	0.0025	31627.0			12650800.0	Y
3	IC 320-442814/4	0.005	52231.0			10446200.0	Y
4	IC 320-442814/5	0.01	109924.0			10992400.0	Y
5	IC 320-442814/6	0.025	282506.0			11300240.0	Y
6	IC 320-442814/7	0.05	599690.0			11993800.0	Y
7	IC 320-442814/8	0.1	1137198.0			11371980.0	Y
8	IC 320-442814/9	0.25	2850703.0			11402812.0	Y
9	IC 320-442814/11	0.5	2861316.0			5722632.0	N
10	IC 320-442814/12	1.0	11757457.0			11757457.0	Y





Calibration

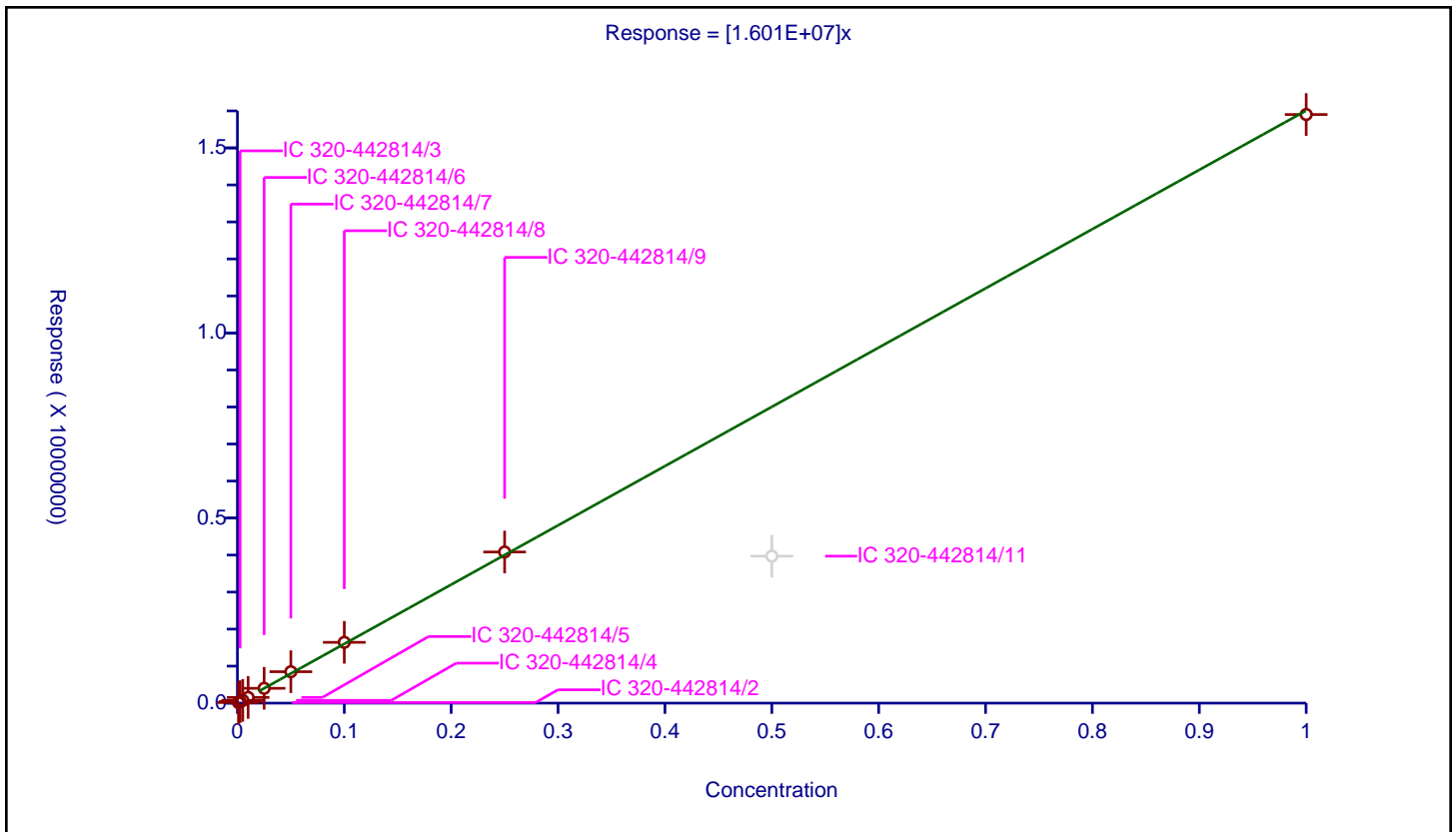
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.601E+07

Error Coefficients	
Standard Error:	52400
Relative Standard Error:	3.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15983.0			15983000.0	Y
2	IC 320-442814/3	0.0025	40279.0			16111600.0	Y
3	IC 320-442814/4	0.005	74525.0			14905000.0	Y
4	IC 320-442814/5	0.01	154419.0			15441900.0	Y
5	IC 320-442814/6	0.025	400267.0			16010680.0	Y
6	IC 320-442814/7	0.05	848428.0			16968560.0	Y
7	IC 320-442814/8	0.1	1642310.0			16423100.0	Y
8	IC 320-442814/9	0.25	4082981.0			16331924.0	Y
9	IC 320-442814/11	0.5	3970862.0			7941724.0	N
10	IC 320-442814/12	1.0	15902147.0			15902147.0	Y



Calibration

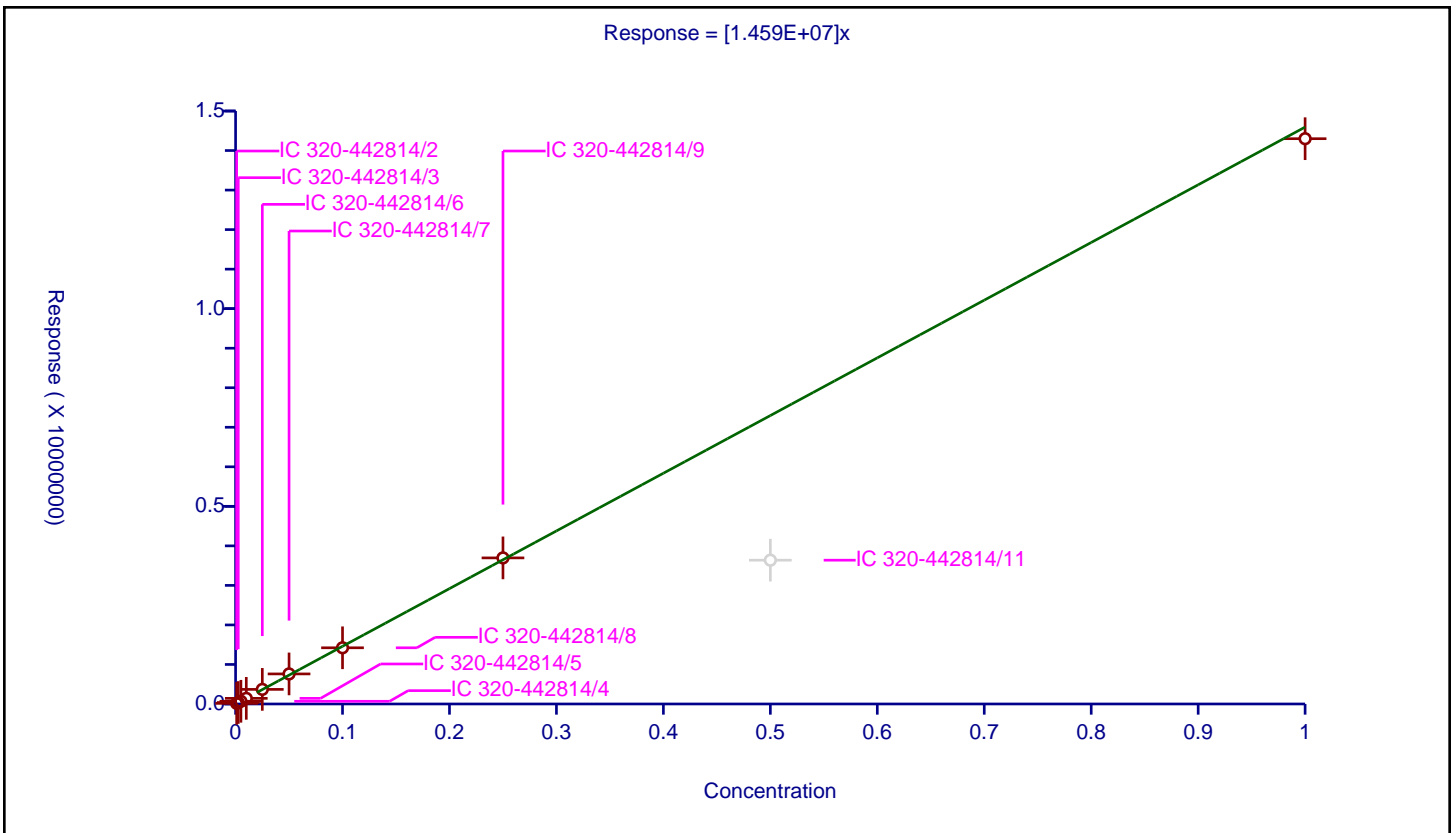
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.459E+07

Error Coefficients	
Standard Error:	106000
Relative Standard Error:	3.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	15170.0			15170000.0	Y
2	IC 320-442814/3	0.0025	37433.0			14973200.0	Y
3	IC 320-442814/4	0.005	68300.0			13660000.0	Y
4	IC 320-442814/5	0.01	142610.0			14261000.0	Y
5	IC 320-442814/6	0.025	369085.0			14763400.0	Y
6	IC 320-442814/7	0.05	760425.0			15208500.0	Y
7	IC 320-442814/8	0.1	1421707.0			14217070.0	Y
8	IC 320-442814/9	0.25	3695857.0			14783428.0	Y
9	IC 320-442814/11	0.5	3637328.0			7274656.0	N
10	IC 320-442814/12	1.0	14299772.0			14299772.0	Y



Calibration

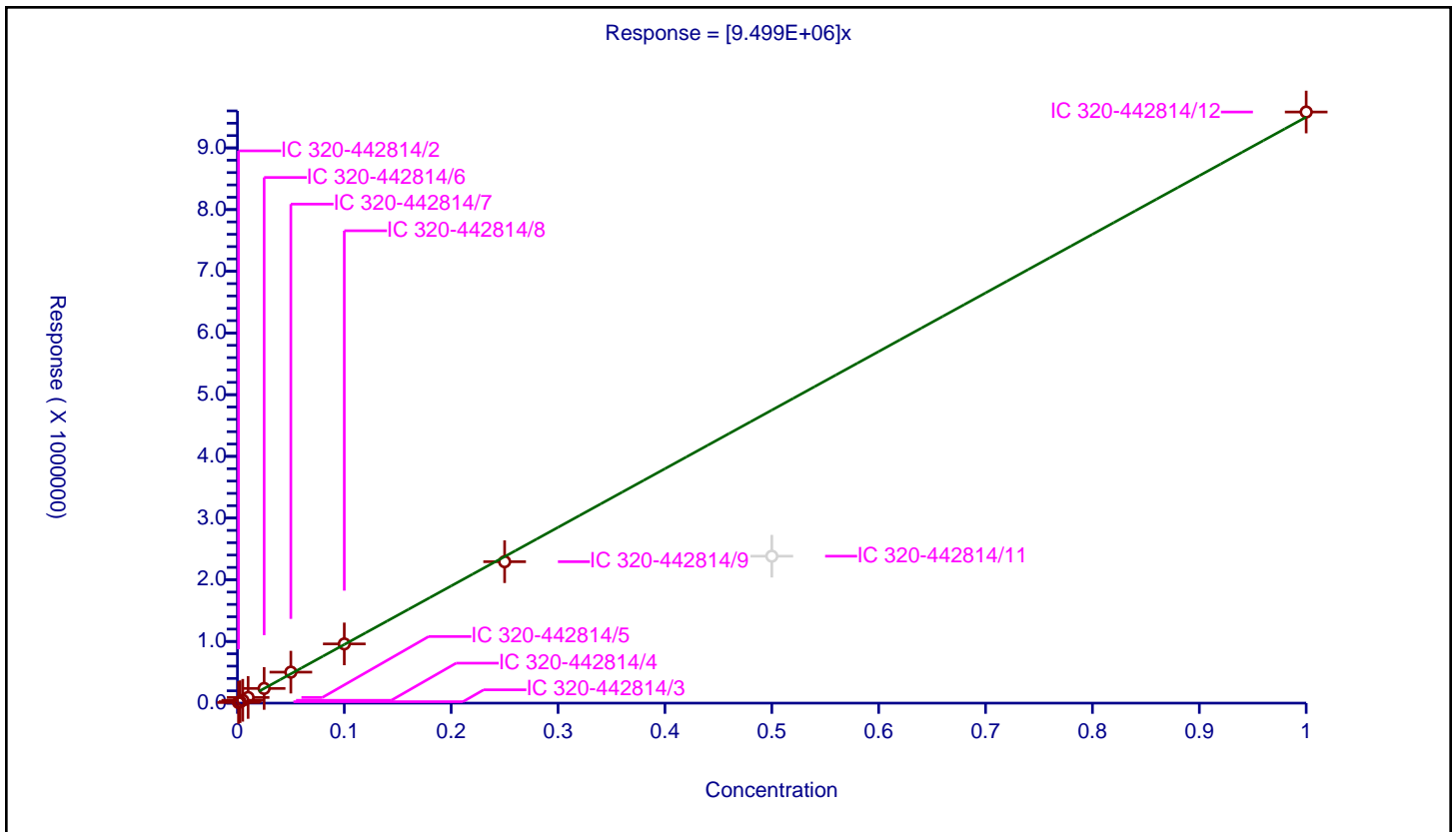
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.499E+06

Error Coefficients	
Standard Error:	42500
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	9844.0			9844000.0	Y
2	IC 320-442814/3	0.0025	23331.0			9332400.0	Y
3	IC 320-442814/4	0.005	46129.0			9225800.0	Y
4	IC 320-442814/5	0.01	91722.0			9172200.0	Y
5	IC 320-442814/6	0.025	237946.0			9517840.0	Y
6	IC 320-442814/7	0.05	502517.0			10050340.0	Y
7	IC 320-442814/8	0.1	959926.0			9599260.0	Y
8	IC 320-442814/9	0.25	2292512.0			9170048.0	Y
9	IC 320-442814/11	0.5	2382221.0			4764442.0	N
10	IC 320-442814/12	1.0	9581725.0			9581725.0	Y



Calibration

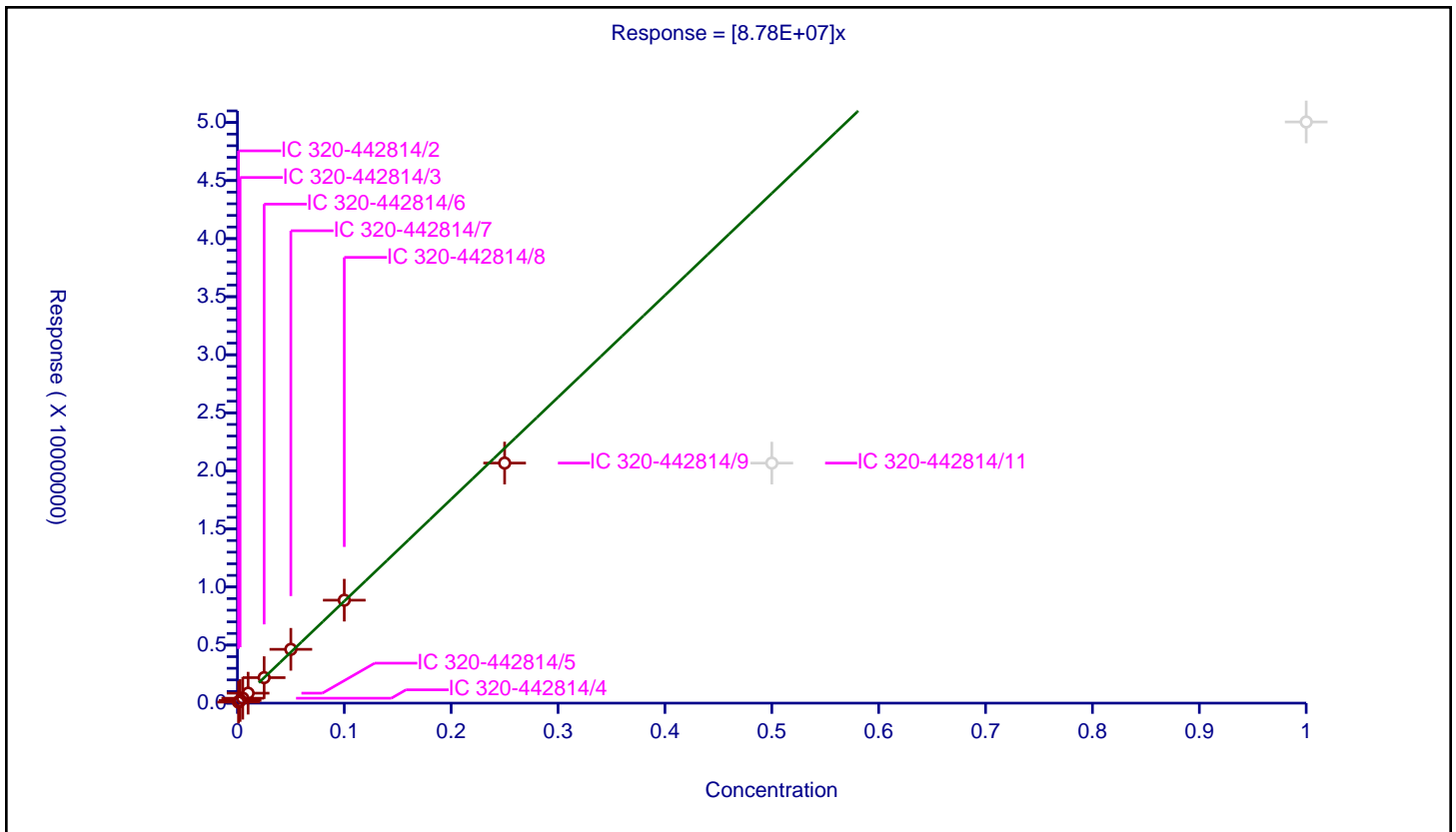
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.78E+07

Error Coefficients	
Standard Error:	492000
Relative Standard Error:	3.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	88499.0			88499000.0	Y
2	IC 320-442814/3	0.0025	228069.0			91227600.0	Y
3	IC 320-442814/4	0.005	424082.0			84816400.0	Y
4	IC 320-442814/5	0.01	859891.0			85989100.0	Y
5	IC 320-442814/6	0.025	2196487.0			87859480.0	Y
6	IC 320-442814/7	0.05	4632908.0			92658160.0	Y
7	IC 320-442814/8	0.1	8864472.0			88644720.0	Y
8	IC 320-442814/9	0.25	20672409.0			82689636.0	Y
9	IC 320-442814/11	0.5	20671132.0			41342264.0	N
10	IC 320-442814/12	1.0	50045322.0			50045322.0	N



**Calibration**

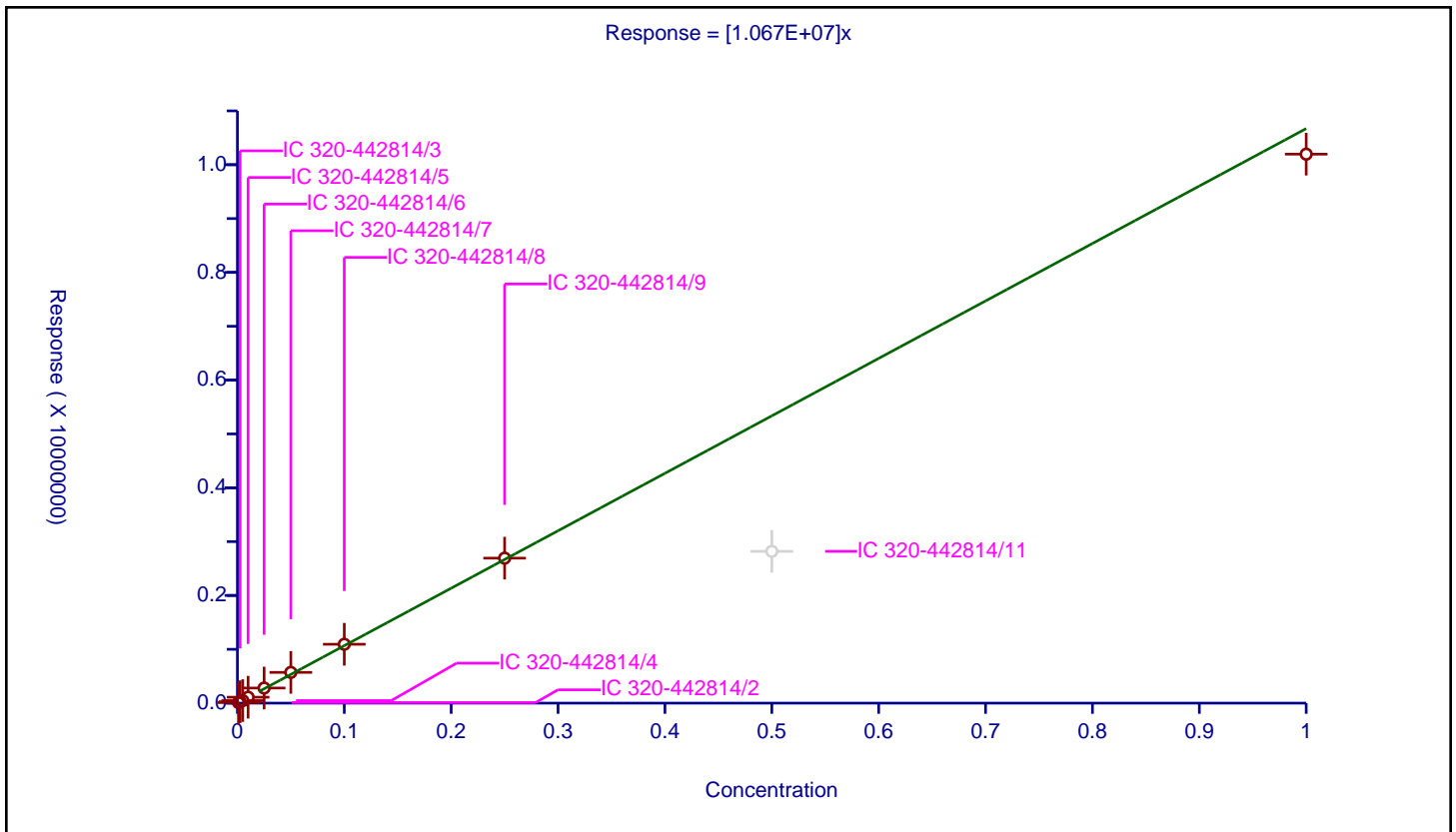
**/ PFECA B**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	1.067E+07

Error Coefficients	
<b>Standard Error:</b>	169000
<b>Relative Standard Error:</b>	5.7
<b>Correlation Coefficient:</b>	1.000
<b>Coefficient of Determination (Adjusted):</b>	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	10402.0		10402000.0		Y
2	IC 320-442814/3	0.0025	26687.0		10674800.0		Y
3	IC 320-442814/4	0.005	47009.0		9401800.0		Y
4	IC 320-442814/5	0.01	110038.0		11003800.0		Y
5	IC 320-442814/6	0.025	280903.0		11236120.0		Y
6	IC 320-442814/7	0.05	571056.0		11421120.0		Y
7	IC 320-442814/8	0.1	1093548.0		10935480.0		Y
8	IC 320-442814/9	0.25	2692978.0		10771912.0		Y
9	IC 320-442814/11	0.5	2819121.0		5638242.0		N
10	IC 320-442814/12	1.0	10196243.0		10196243.0		Y



Calibration

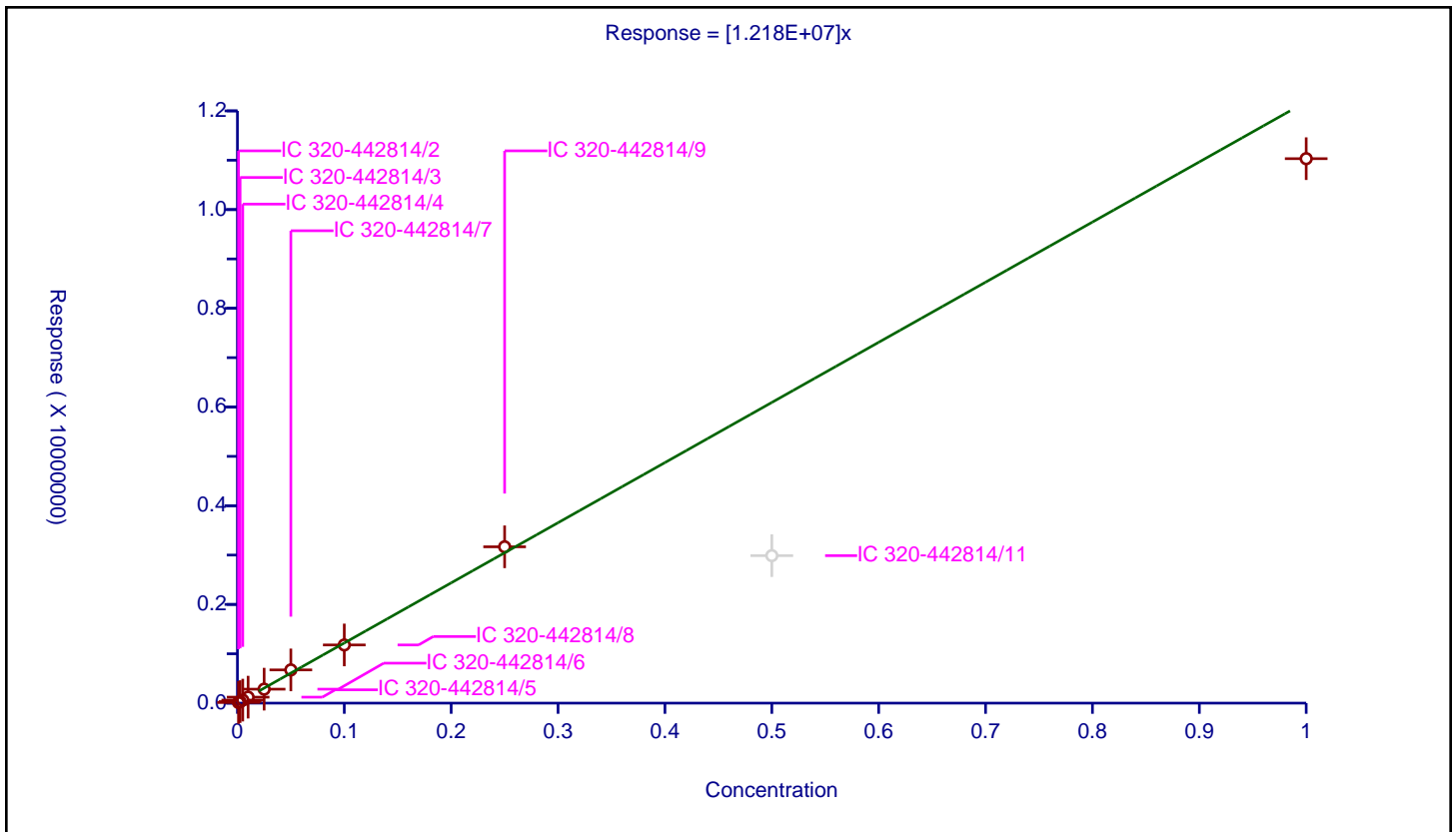
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.218E+07

Error Coefficients	
Standard Error:	411000
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	12596.0			12596000.0	Y
2	IC 320-442814/3	0.0025	30927.0			12370800.0	Y
3	IC 320-442814/4	0.005	61518.0			12303600.0	Y
4	IC 320-442814/5	0.01	121134.0			12113400.0	Y
5	IC 320-442814/6	0.025	283125.0			11325000.0	Y
6	IC 320-442814/7	0.05	672980.0			13459600.0	Y
7	IC 320-442814/8	0.1	1179078.0			11790780.0	Y
8	IC 320-442814/9	0.25	3167388.0			12669552.0	Y
9	IC 320-442814/11	0.5	2988166.0			5976332.0	N
10	IC 320-442814/12	1.0	11031957.0			11031957.0	Y



**Calibration**

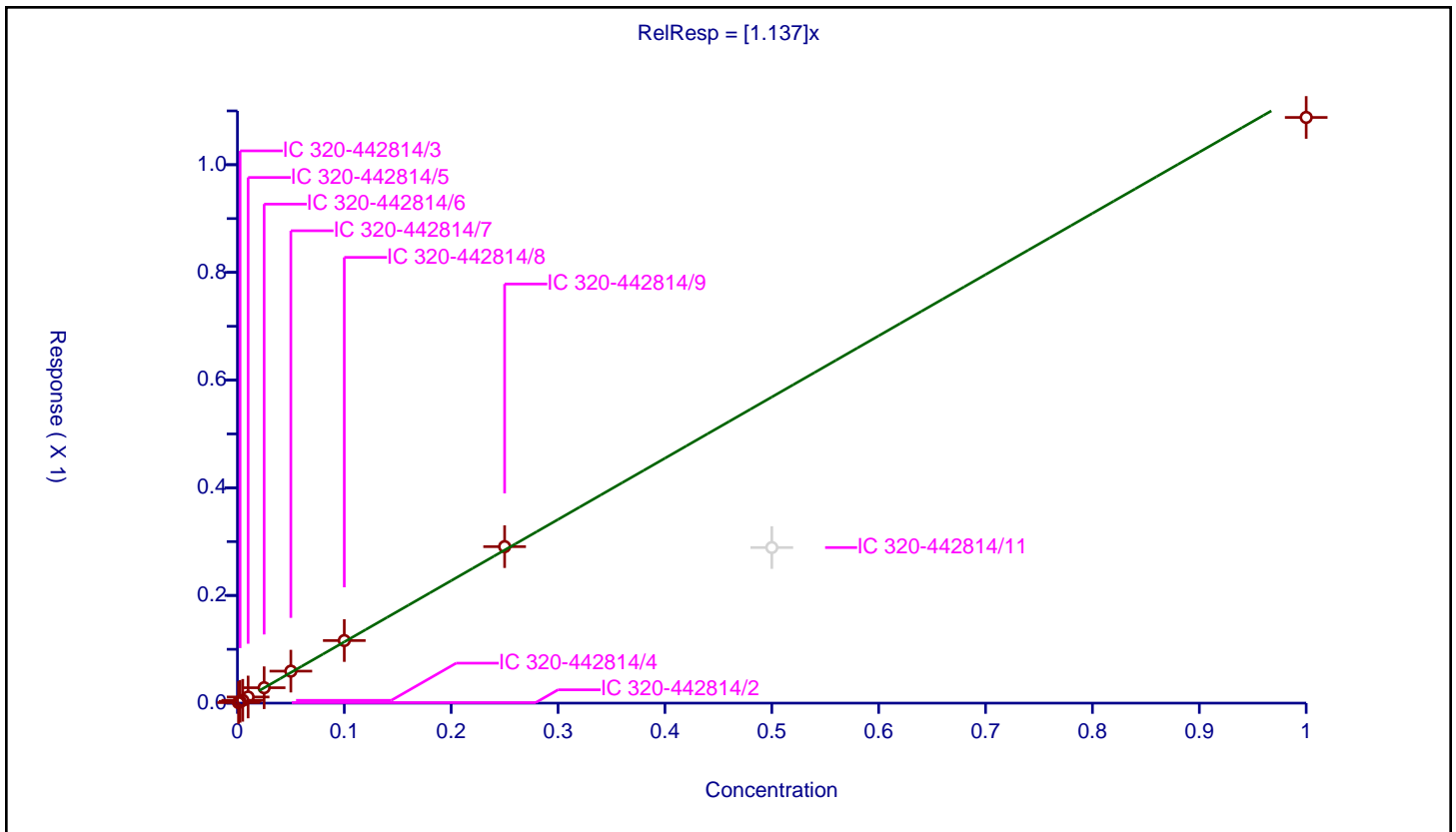
**/ Perfluoro(2-propoxypropanoic) acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	1.137

Error Coefficients	
<b>Standard Error:</b>	1860000
<b>Relative Standard Error:</b>	8.1
<b>Correlation Coefficient:</b>	0.999
<b>Coefficient of Determination (Adjusted):</b>	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-442814/2	0.001	0.000987	0.25	1246316.0	0.986708	Y
2	IC 320-442814/3	0.0025	0.003286	0.25	1247368.0	1.314528	Y
3	IC 320-442814/4	0.005	0.005238	0.25	1287578.0	1.047587	Y
4	IC 320-442814/5	0.01	0.011387	0.25	1224836.0	1.138724	Y
5	IC 320-442814/6	0.025	0.028624	0.25	1245930.0	1.144976	Y
6	IC 320-442814/7	0.05	0.059424	0.25	1273217.0	1.188486	Y
7	IC 320-442814/8	0.1	0.116249	0.25	1191322.0	1.162486	Y
8	IC 320-442814/9	0.25	0.290655	0.25	1220443.0	1.162619	Y
9	IC 320-442814/11	0.5	0.288945	0.25	1224539.0	0.57789	N
10	IC 320-442814/12	1.0	1.087854	0.25	1153177.0	1.087854	Y



Calibration

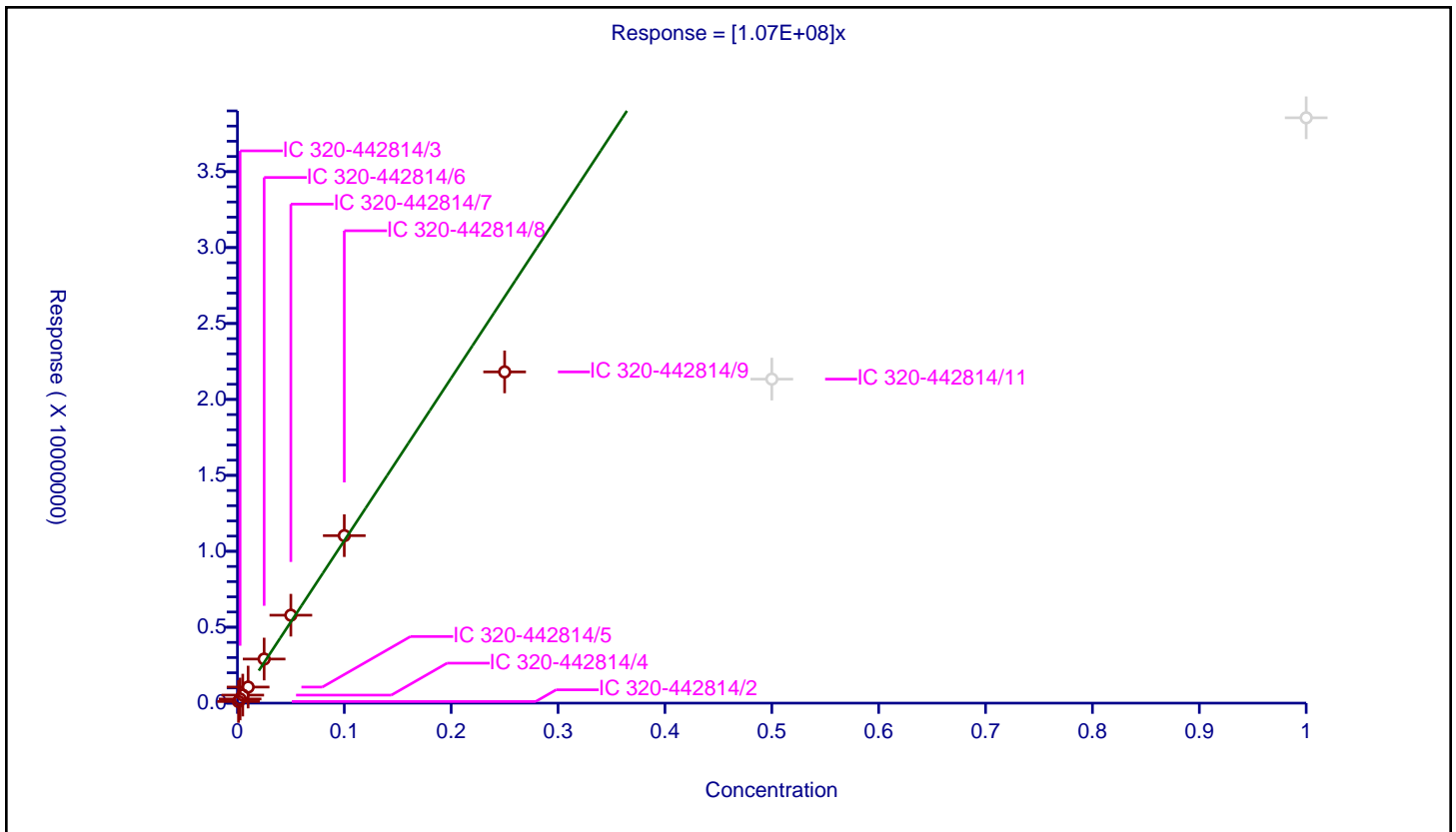
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.07E+08

Error Coefficients	
Standard Error:	1880000
Relative Standard Error:	8.4
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	106019.0			106019000.0	Y
2	IC 320-442814/3	0.0025	272132.0			108852800.0	Y
3	IC 320-442814/4	0.005	529239.0			105847800.0	Y
4	IC 320-442814/5	0.01	1058898.0			105889800.0	Y
5	IC 320-442814/6	0.025	2904319.0			116172760.0	Y
6	IC 320-442814/7	0.05	5790043.0			115800860.0	Y
7	IC 320-442814/8	0.1	11028616.0			110286160.0	Y
8	IC 320-442814/9	0.25	21811684.0			87246736.0	Y
9	IC 320-442814/11	0.5	21336363.0			42672726.0	N
10	IC 320-442814/12	1.0	38545187.0			38545187.0	N





**Calibration**

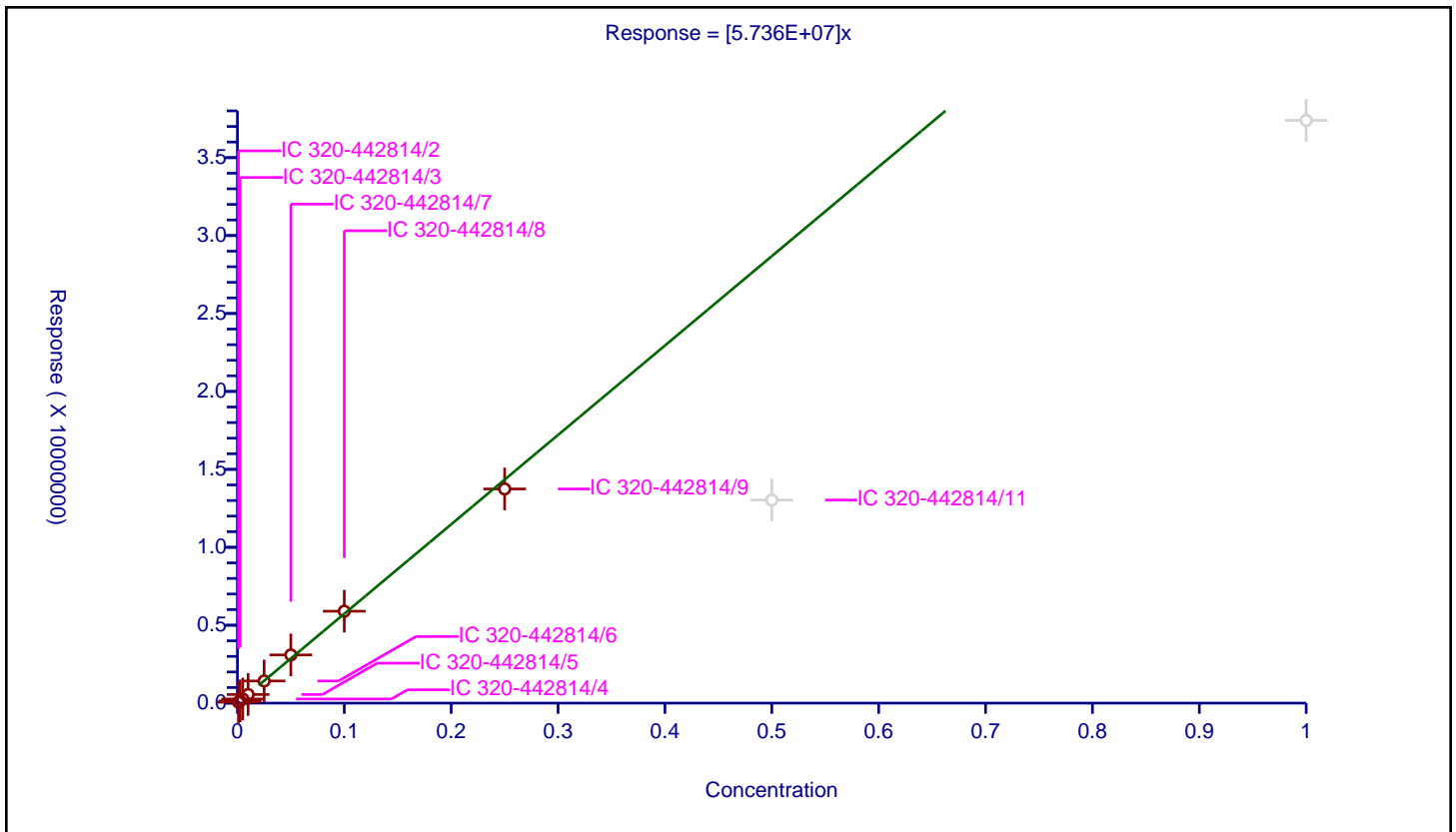
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.736E+07

Error Coefficients	
Standard Error:	250000
Relative Standard Error:	5.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	59929.0			59929000.0	Y
2	IC 320-442814/3	0.0025	144402.0			57760800.0	Y
3	IC 320-442814/4	0.005	266416.0			53283200.0	Y
4	IC 320-442814/5	0.01	552501.0			55250100.0	Y
5	IC 320-442814/6	0.025	1421503.0			56860120.0	Y
6	IC 320-442814/7	0.05	3092904.0			61858080.0	Y
7	IC 320-442814/8	0.1	5897426.0			58974260.0	Y
8	IC 320-442814/9	0.25	13741477.0			54965908.0	Y
9	IC 320-442814/11	0.5	13032067.0			26064134.0	N
10	IC 320-442814/12	1.0	37389456.0			37389456.0	N



Calibration

/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

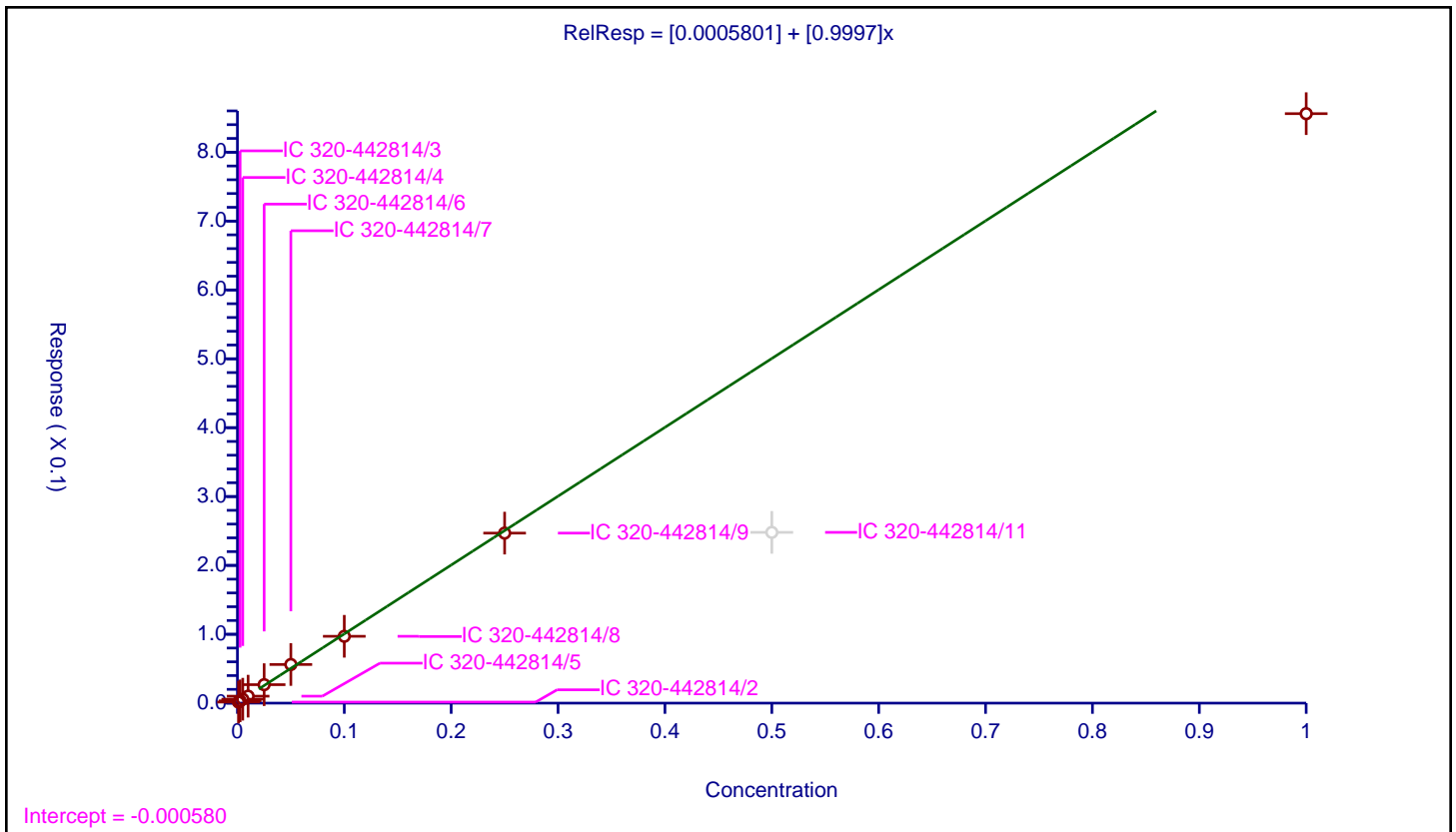
Curve Coefficients

Intercept: 0.0005801  
 Slope: 0.9997

Error Coefficients

Standard Error: 6580000  
 Relative Standard Error: 8.5  
 Correlation Coefficient: 0.991  
 Coefficient of Determination (Adjusted): 0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-442814/2	0.001	0.001537	0.25	6075553.0	1.537144	Y
2	IC 320-442814/3	0.0025	0.003319	0.25	5402471.0	1.3278	Y
3	IC 320-442814/4	0.005	0.005703	0.25	5843429.0	1.140666	Y
4	IC 320-442814/5	0.01	0.010131	0.25	6138902.0	1.013145	Y
5	IC 320-442814/6	0.025	0.026802	0.25	5909032.0	1.072069	Y
6	IC 320-442814/7	0.05	0.056092	0.25	5716892.0	1.121848	Y
7	IC 320-442814/8	0.1	0.097049	0.25	5640245.0	0.970491	Y
8	IC 320-442814/9	0.25	0.246898	0.25	5662276.0	0.987592	Y
9	IC 320-442814/11	0.5	0.247955	0.25	5303619.0	0.49591	N
10	IC 320-442814/12	1.0	0.855993	0.25	4753249.0	0.855993	Y



**Calibration**

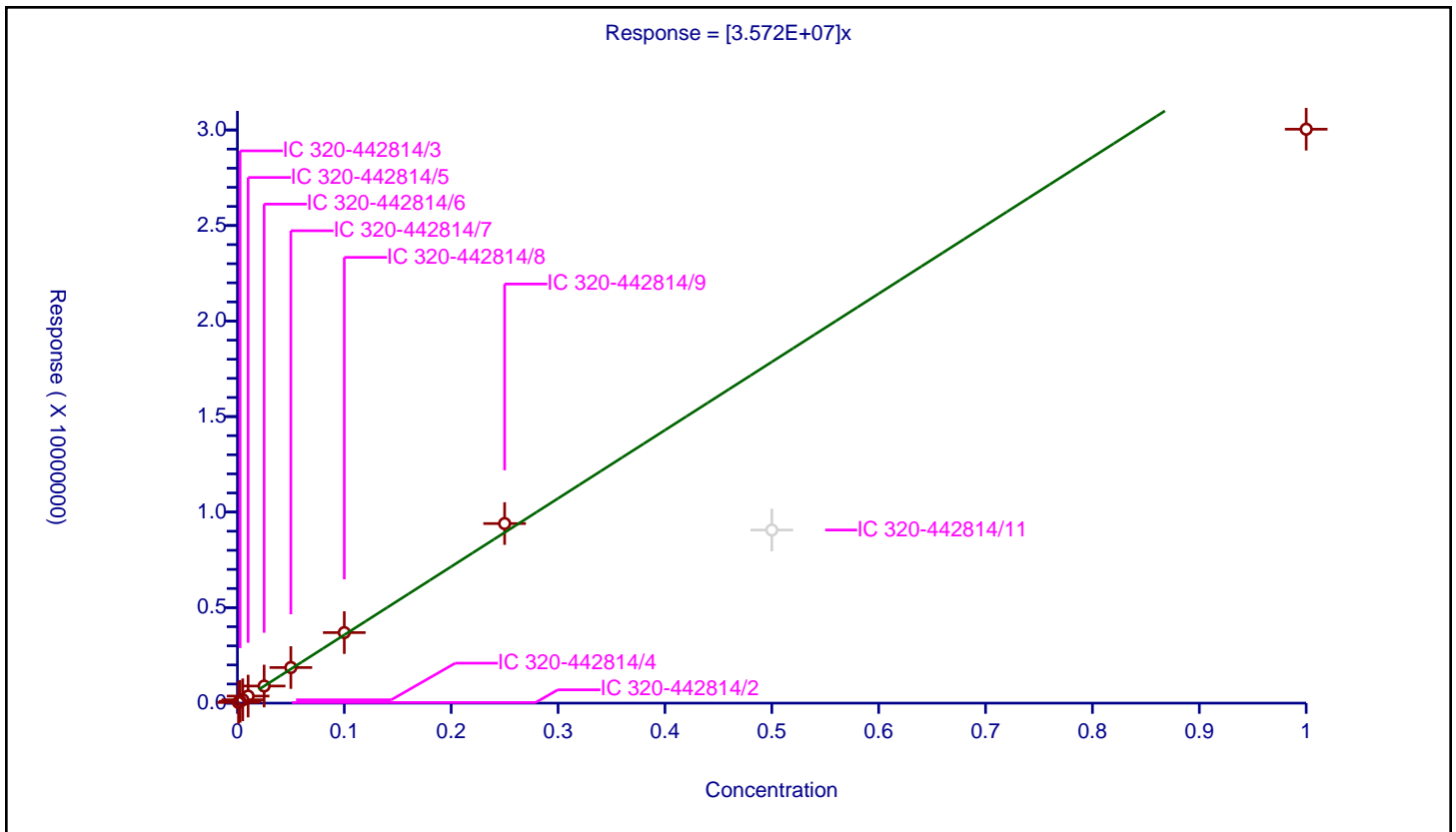
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.572E+07

Error Coefficients	
Standard Error:	2020000
Relative Standard Error:	6.7
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	34522.0			34522000.0	Y
2	IC 320-442814/3	0.0025	93165.0			37266000.0	Y
3	IC 320-442814/4	0.005	175496.0			35099200.0	Y
4	IC 320-442814/5	0.01	369602.0			36960200.0	Y
5	IC 320-442814/6	0.025	895275.0			35811000.0	Y
6	IC 320-442814/7	0.05	1863519.0			37270380.0	Y
7	IC 320-442814/8	0.1	3691742.0			36917420.0	Y
8	IC 320-442814/9	0.25	9399925.0			37599700.0	Y
9	IC 320-442814/11	0.5	9061574.0			18123148.0	N
10	IC 320-442814/12	1.0	30040413.0			30040413.0	Y



Calibration

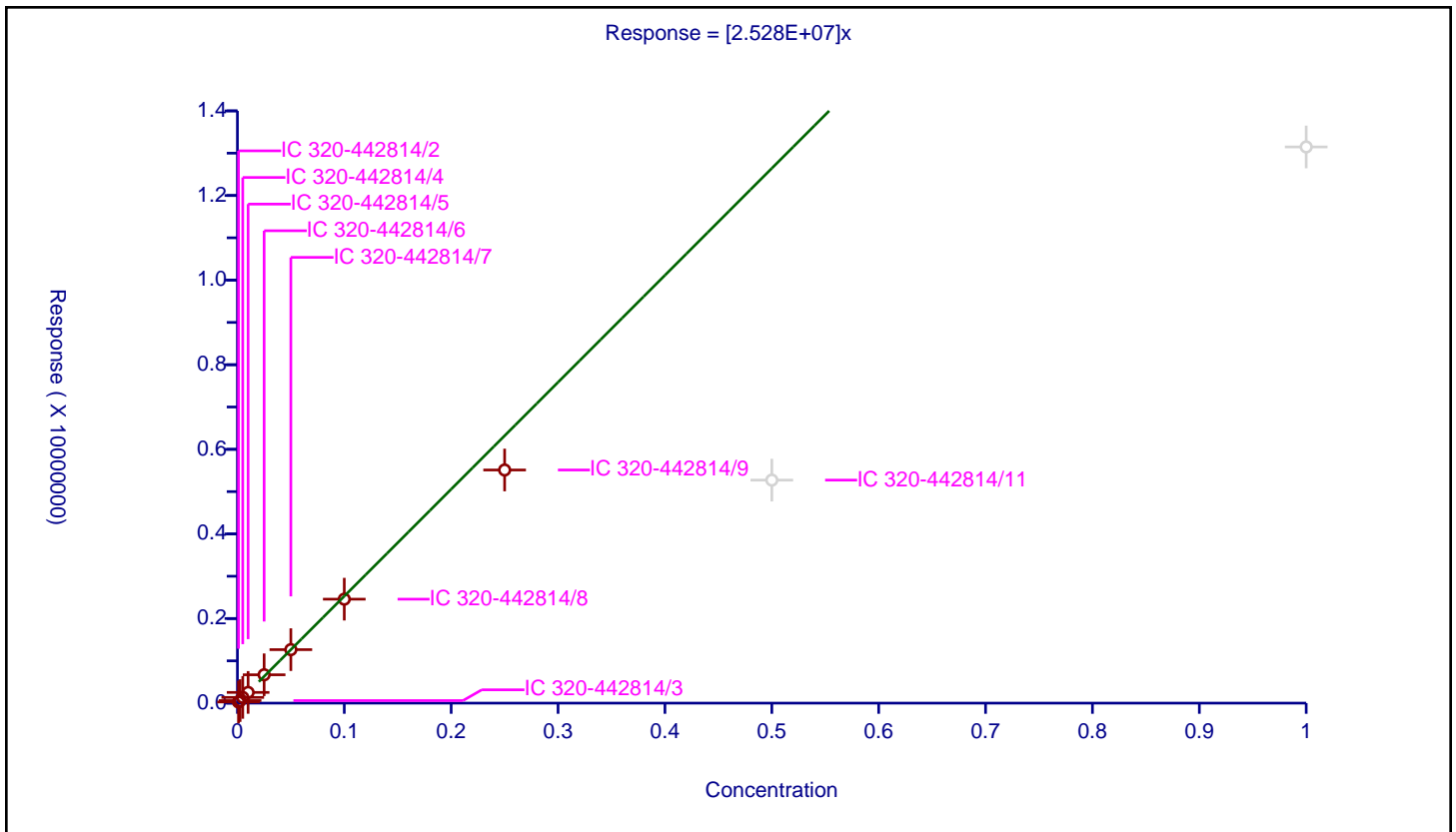
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.528E+07

Error Coefficients	
Standard Error:	308000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	27058.0			27058000.0	Y
2	IC 320-442814/3	0.0025	60281.0			24112400.0	Y
3	IC 320-442814/4	0.005	135286.0			27057200.0	Y
4	IC 320-442814/5	0.01	253267.0			25326700.0	Y
5	IC 320-442814/6	0.025	670411.0			26816440.0	Y
6	IC 320-442814/7	0.05	1264482.0			25289640.0	Y
7	IC 320-442814/8	0.1	2457517.0			24575170.0	Y
8	IC 320-442814/9	0.25	5510979.0			22043916.0	Y
9	IC 320-442814/11	0.5	5271992.0			10543984.0	N
10	IC 320-442814/12	1.0	13147764.0			13147764.0	N



Calibration

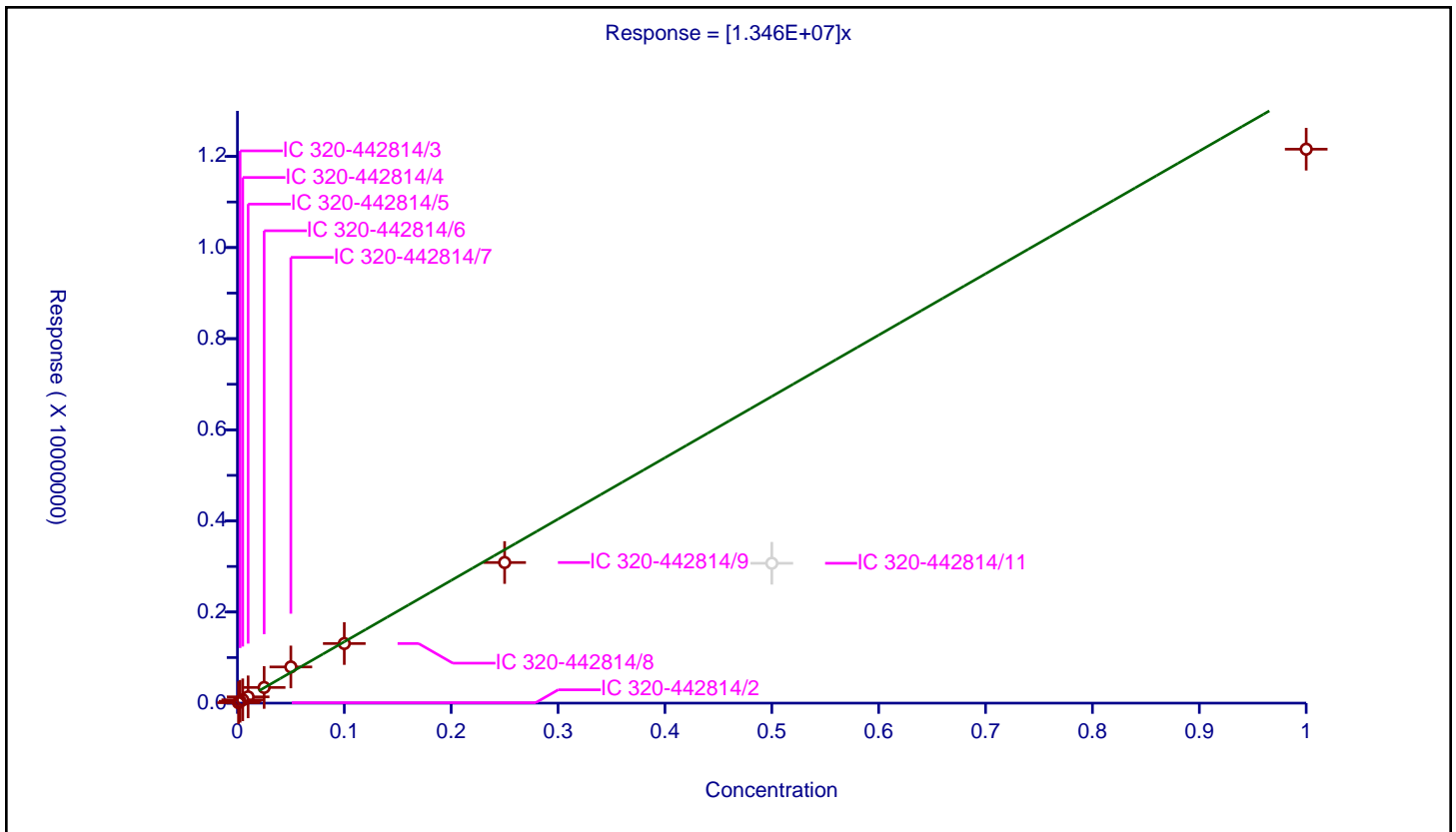
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.346E+07

Error Coefficients	
Standard Error:	474000
Relative Standard Error:	15.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.974

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	9462.0			9462000.0	Y
2	IC 320-442814/3	0.0025	40479.0			16191600.0	Y
3	IC 320-442814/4	0.005	72641.0			14528200.0	Y
4	IC 320-442814/5	0.01	137749.0			13774900.0	Y
5	IC 320-442814/6	0.025	343798.0			13751920.0	Y
6	IC 320-442814/7	0.05	794348.0			15886960.0	Y
7	IC 320-442814/8	0.1	1307902.0			13079020.0	Y
8	IC 320-442814/9	0.25	3086735.0			12346940.0	Y
9	IC 320-442814/11	0.5	3070122.0			6140244.0	N
10	IC 320-442814/12	1.0	12159262.0			12159262.0	Y



**Calibration**

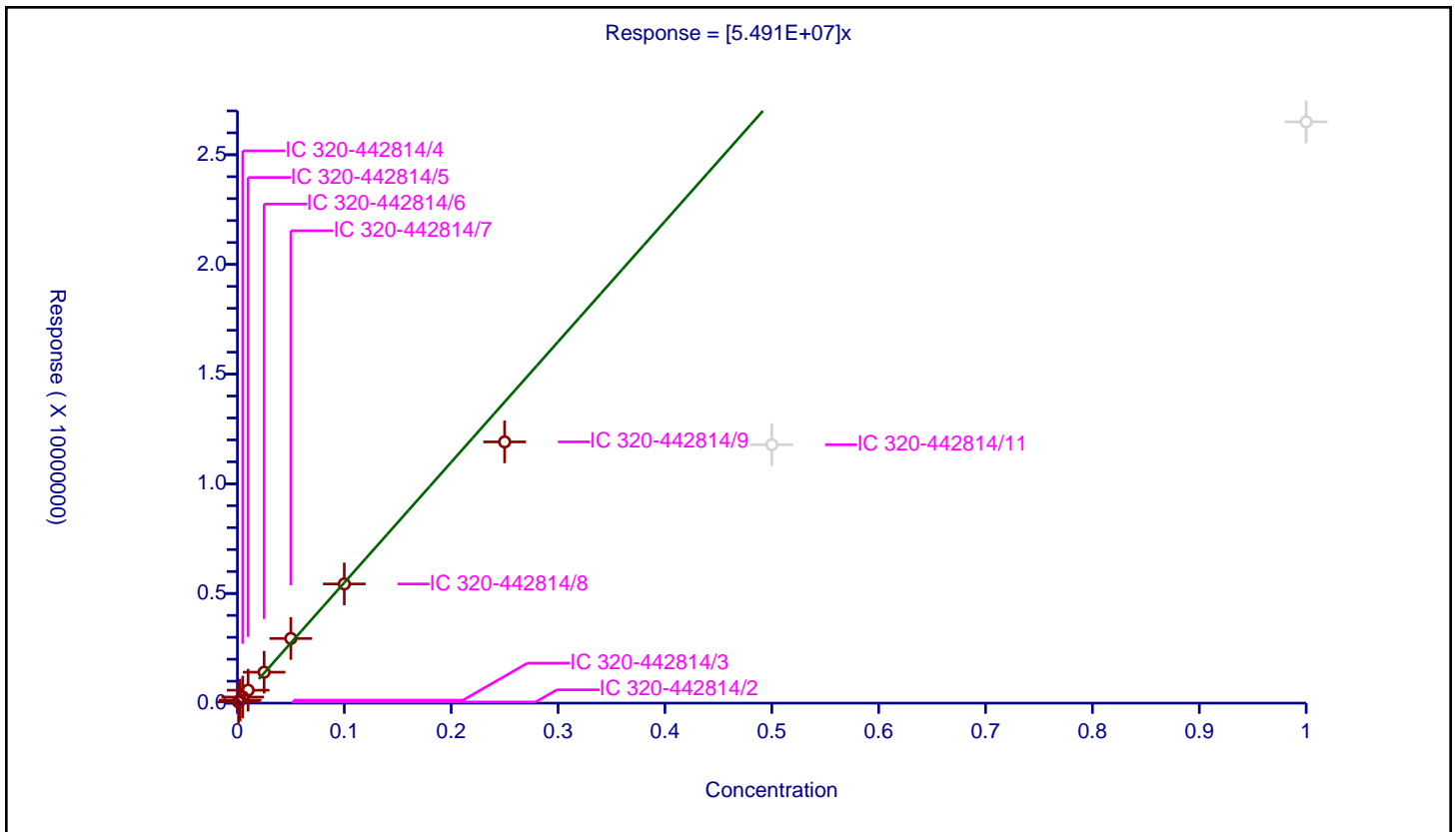
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	5.491E+07

Error Coefficients	
<b>Standard Error:</b>	692000
<b>Relative Standard Error:</b>	6.6
<b>Correlation Coefficient:</b>	0.996
<b>Coefficient of Determination (Adjusted):</b>	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	53143.0			53143000.0	Y
2	IC 320-442814/3	0.0025	136249.0			54499600.0	Y
3	IC 320-442814/4	0.005	276588.0			55317600.0	Y
4	IC 320-442814/5	0.01	589903.0			58990300.0	Y
5	IC 320-442814/6	0.025	1410907.0			56436280.0	Y
6	IC 320-442814/7	0.05	2947292.0			58945840.0	Y
7	IC 320-442814/8	0.1	5433377.0			54333770.0	Y
8	IC 320-442814/9	0.25	11910026.0			47640104.0	Y
9	IC 320-442814/11	0.5	11781335.0			23562670.0	N
10	IC 320-442814/12	1.0	26500543.0			26500543.0	N



Calibration

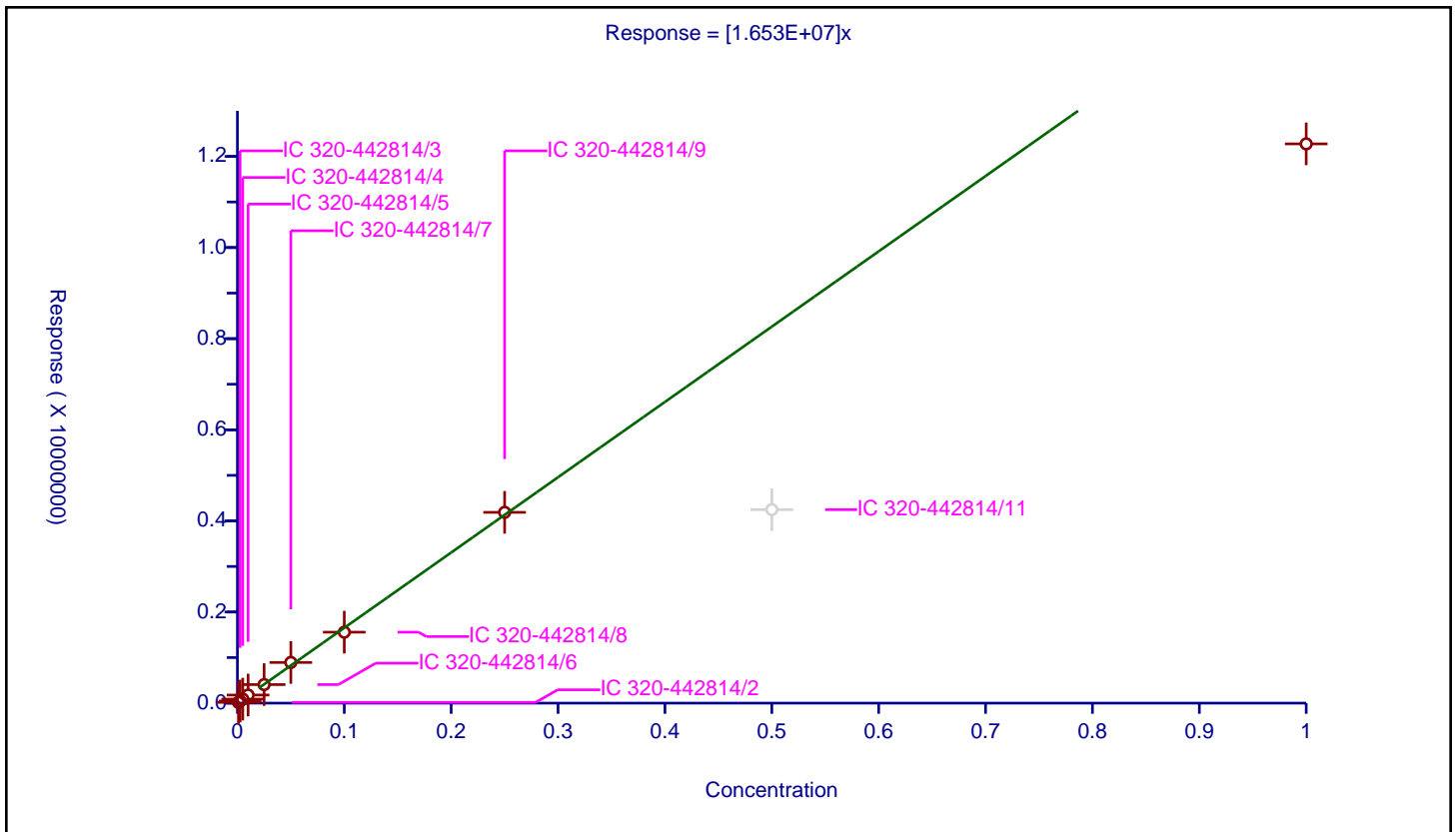
/ PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.653E+07

Error Coefficients	
Standard Error:	1500000
Relative Standard Error:	11.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	16387.0			16387000.0	Y
2	IC 320-442814/3	0.0025	45488.0			18195200.0	Y
3	IC 320-442814/4	0.005	88224.0			17644800.0	Y
4	IC 320-442814/5	0.01	177794.0			17779400.0	Y
5	IC 320-442814/6	0.025	407094.0			16283760.0	Y
6	IC 320-442814/7	0.05	892902.0			17858040.0	Y
7	IC 320-442814/8	0.1	1557836.0			15578360.0	Y
8	IC 320-442814/9	0.25	4187794.0			16751176.0	Y
9	IC 320-442814/11	0.5	4246762.0			8493524.0	N
10	IC 320-442814/12	1.0	12275588.0			12275588.0	Y



Calibration

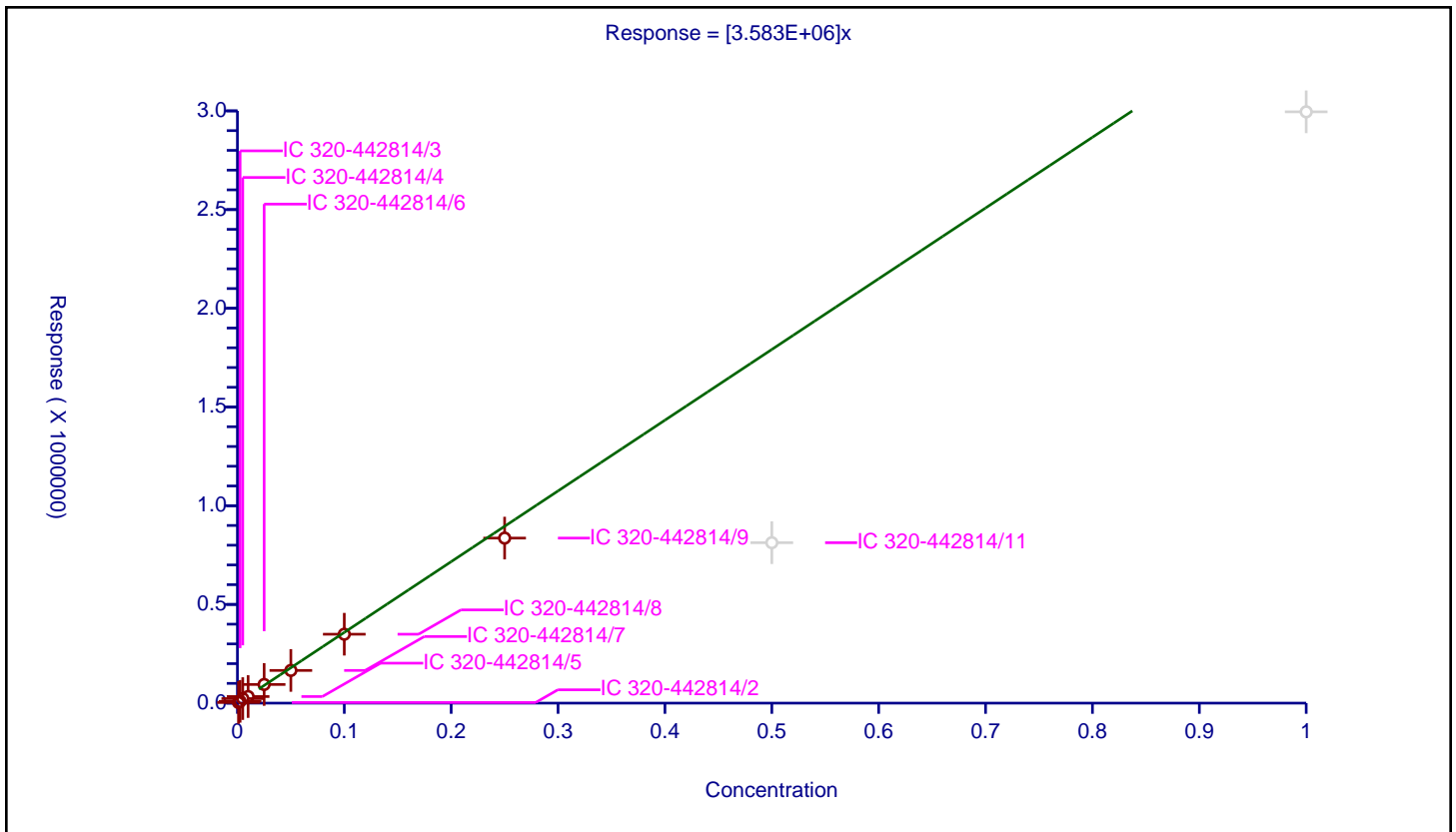
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.583E+06

Error Coefficients	
Standard Error:	23600
Relative Standard Error:	12.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-442814/2	0.001	3214.0			3214000.0	Y
2	IC 320-442814/3	0.0025	8961.0			3584400.0	Y
3	IC 320-442814/4	0.005	23004.0			4600800.0	Y
4	IC 320-442814/5	0.01	33386.0			3338600.0	Y
5	IC 320-442814/6	0.025	94489.0			3779560.0	Y
6	IC 320-442814/7	0.05	165558.0			3311160.0	Y
7	IC 320-442814/8	0.1	349151.0			3491510.0	Y
8	IC 320-442814/9	0.25	835930.0			3343720.0	Y
9	IC 320-442814/11	0.5	812682.0			1625364.0	N
10	IC 320-442814/12	1.0	2995282.0			2995282.0	N





FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-442814/14 Calibration Date: 12/15/2020 23:43  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2020.12.15\_TB3\_ICAL\_016.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	10827840		87.6	100	-12.4	30.0
R-EVE	Ave	5024931	5054840		101	100	0.6	50.0
R-PSDA	Ave	2553594	2661850		104	100	4.2	50.0
Hydrolyzed PSDA	Ave	11384923	11246810		98.8	100	-1.2	50.0
PMPA	Ave	11489461	11094870		96.6	100	-3.4	30.0
NVHOS	Ave	16008657	16011400		100	100	0.0	30.0
PFO2HxA	Ave	14592930	13898860		95.2	100	-4.8	30.0
PEPA	Ave	9499290	9739390		103	100	2.5	30.0
PES	Ave	87798012	86505850		98.5	100	-1.5	30.0
PFECA B	Ave	10671475	10499610		98.4	100	-1.6	30.0
PFO3OA	Ave	12184521	12869760		106	100	5.6	30.0
HFPO-DA	AveID	1.137	1.085		95.4	100	-4.6	40.0
R-PSDCA	Ave	107014490	108538780		101	100	1.4	30.0
Hydro-EVE Acid	Ave	57360184	55149970		96.1	100	-3.9	30.0
Perfluoroheptanoic acid	L2ID		0.9436		93.8	100	-6.2	40.0
Hydro-PS Acid	Ave	35720701	35717780		100	100	-0.0	30.0
PFECA G	Ave	25284933	23909050		94.6	100	-5.4	30.0
PFO4DA	Ave	13464534	10804370		80.2	100	-19.8	30.0
EVE Acid	Ave	54913312	49003310		89.2	100	-10.8	30.0
PS Acid	Ave	16528147	16700370		101	100	1.0	30.0
PFO5DA	Ave	3582969	3668410		102	100	2.4	50.0
13C3 HFPO-DA	Ave	4928972	4984044		253	250	1.1	50.0
13C4 PFHpA	Ave	22729800	22632796		249	250	-0.4	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_016.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 15-Dec-2020 23:43:03 ALS Bottle#: 16 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Dec-2020 11:02:03 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1641

First Level Reviewer: contrerase Date: 16-Dec-2020 10:25:47

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.312	2.785	0.527		1082784	0.0876		2082		M
2 R-EVE										M
405.00 > 217.00	6.874	6.657	0.217		505484	0.1006		9912		M
3 R-PSDA										M
440.90 > 241.00	6.950	6.746	0.204		266185	0.1042		10270		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.032	6.860	0.172		1124681	0.0988		31390		M
5 PMPA										
229.00 > 185.00	7.046	6.885	0.161		1109487	0.0966		1532		
6 NVHOS										
297.00 > 135.00	7.582	7.457	0.125		1601140	0.1000		23362		
7 PFO2HxA										
245.00 > 85.00	8.155	8.094	0.061		1389886	0.0952		11838		
8 PEPA										
278.90 > 234.90	8.777	8.739	0.038		973939	0.1025		4835		
9 PES										
314.90 > 135.00	9.070	9.044	0.026		8650585	0.0985		169090		
10 PFECA B										
295.00 > 201.00	9.286	9.279	0.007		1049961	0.0984		37869		
11 PFO3OA										
310.90 > 85.00	9.531	9.516	0.015		1286976	0.1056		16675		
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.613	9.599	0.014		1246011	0.2528		101 36202		
13 HPFO-DA										
285.00 > 169.00	9.641	9.627	0.015	1.003	540770	0.0954		15875		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	9.999	9.957	0.042		10853878	0.1014			192938	
16 Hydro-EVE Acid										
427.00 > 282.90	10.028	10.013	0.015		5514997	0.0961			71506	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.028	10.013	0.015	1.000	2135720	0.0938	Target=0.00		31988	
363.00 > 169.00	10.028	10.013	0.015	1.000	1287609		1.66(0.00-0.00)		28940	
D 15 13C4 PFHpA										
367.00 > 322.00	10.028	10.013	0.015		5658199	0.2489		99.6	169815	
17 Hydro-PS Acid										
463.00 > 262.90	10.056	10.042	0.014		3571778	0.1000			66064	
19 PFECA G										
378.90 > 184.90	10.161	10.145	0.016		2390905	0.0946			75773	
20 PFO4DA										
376.90 > 85.00	10.288	10.269	0.019		1080437	0.0802			10489	
21 PS Acid										
443.00 > 146.90	10.362	10.344	0.018		1670037	0.1010			41076	
22 EVE Acid										
407.00 > 262.90	10.362	10.344	0.018		4900331	0.0892			95825	
23 TAF										
442.90 > 85.00	10.854	10.847	0.007		366841	0.1024			931	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_016.d

Injection Date: 15-Dec-2020 23:43:03

Instrument ID: A7\_N

Lims ID: ICV

Client ID:

Operator ID: abservice

ALS Bottle#: 16

Worklist Smp#: 14

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

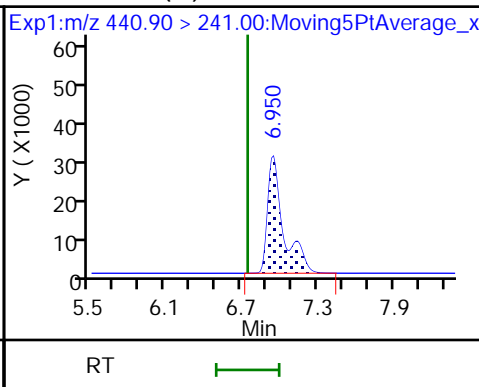
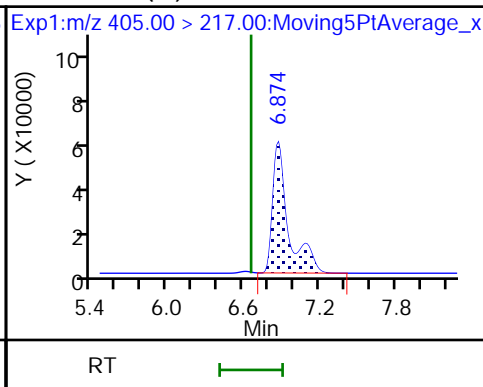
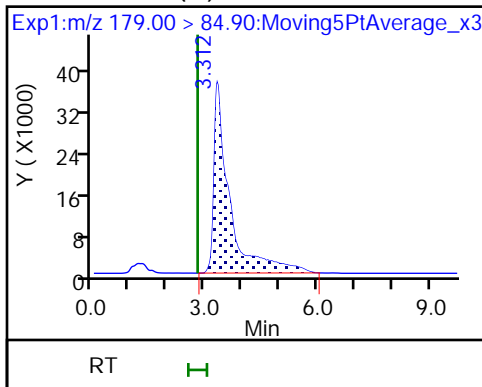
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

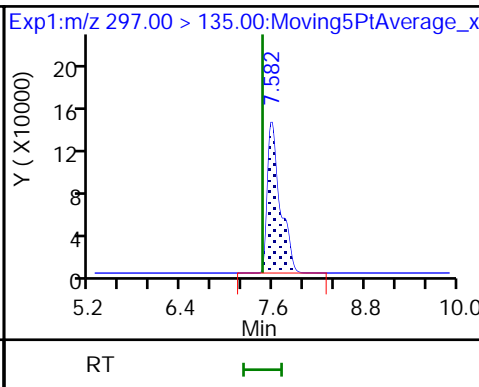
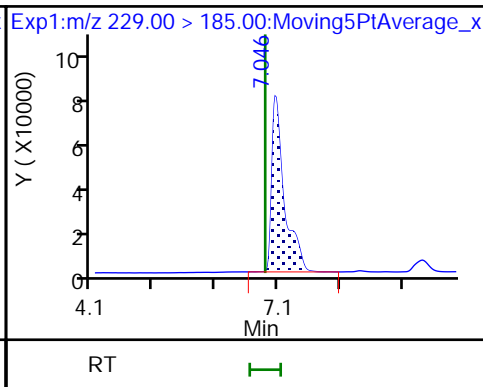
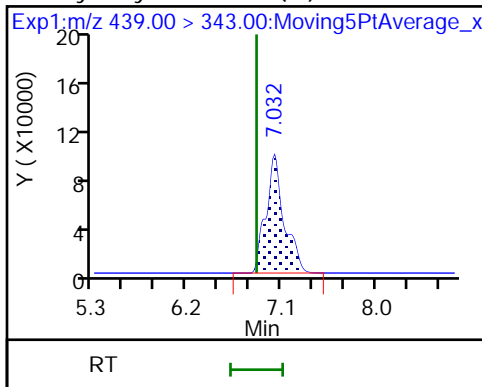
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA

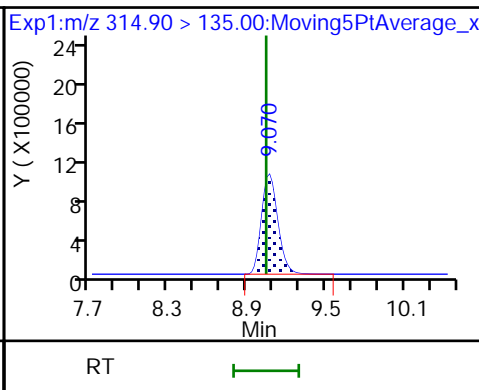
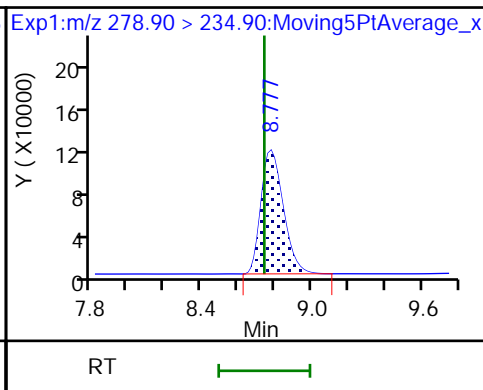
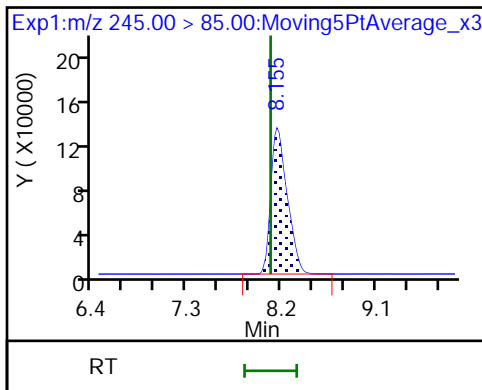
6 NVHOS



7 PFO2HxA

8 PEPA

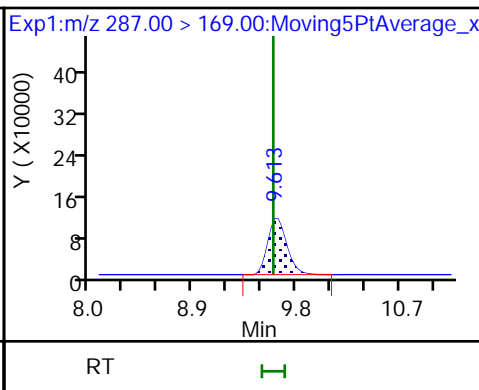
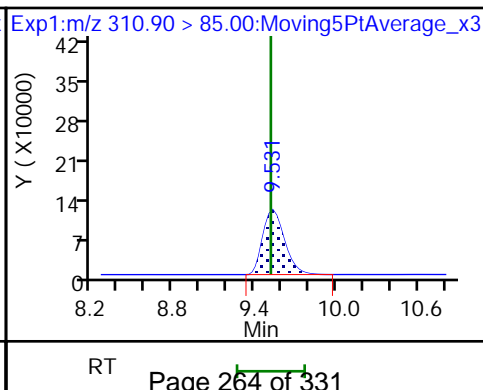
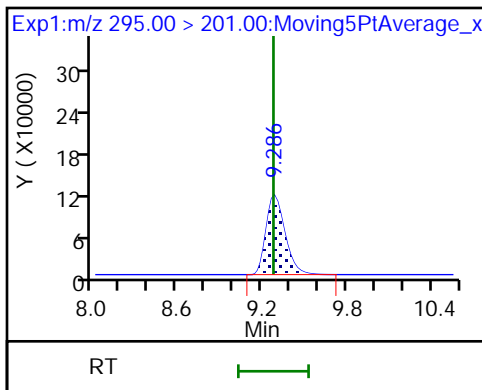
9 PES

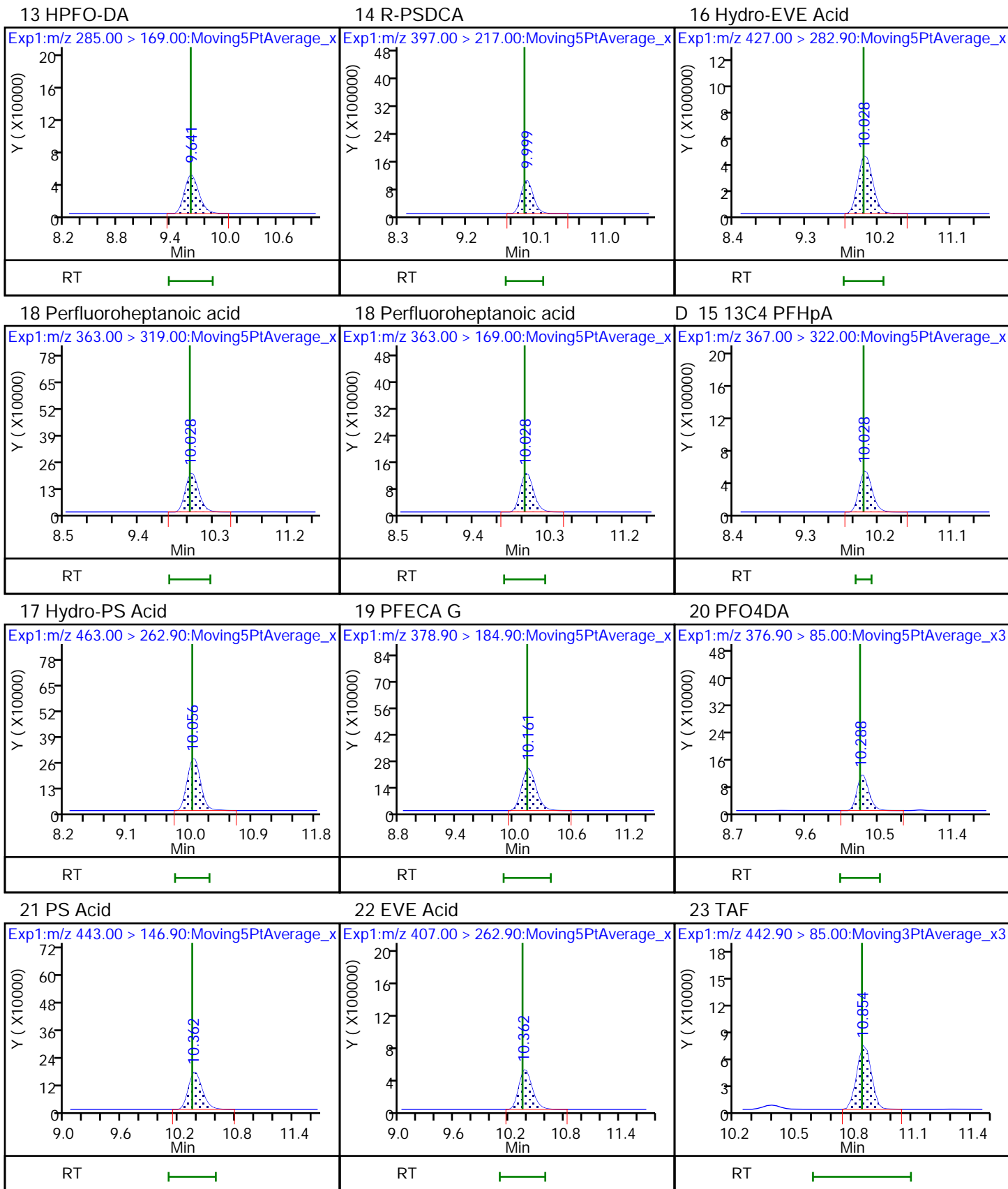


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

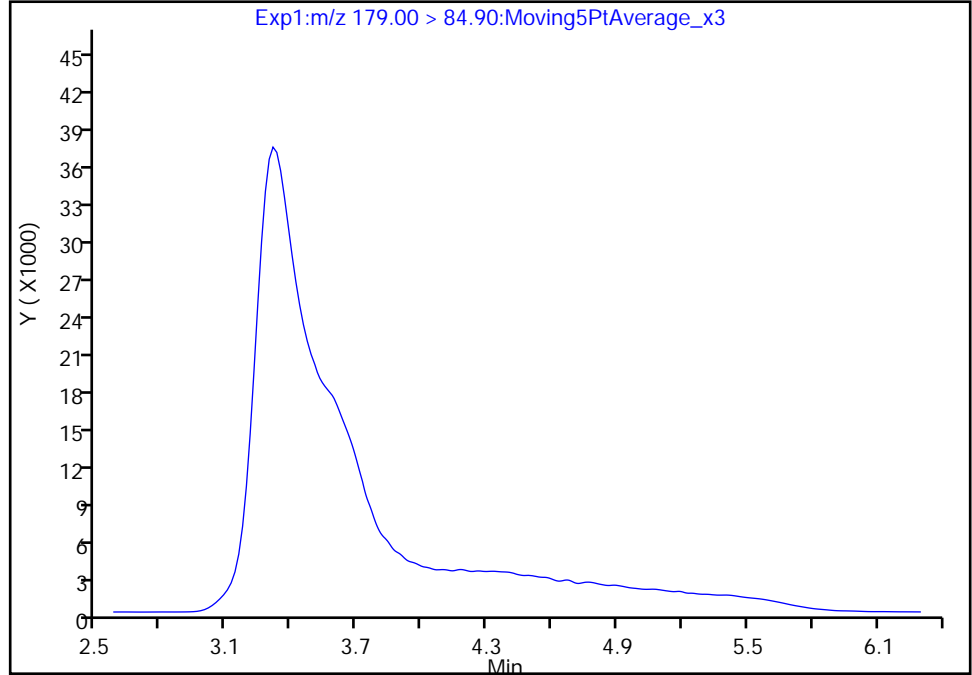
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

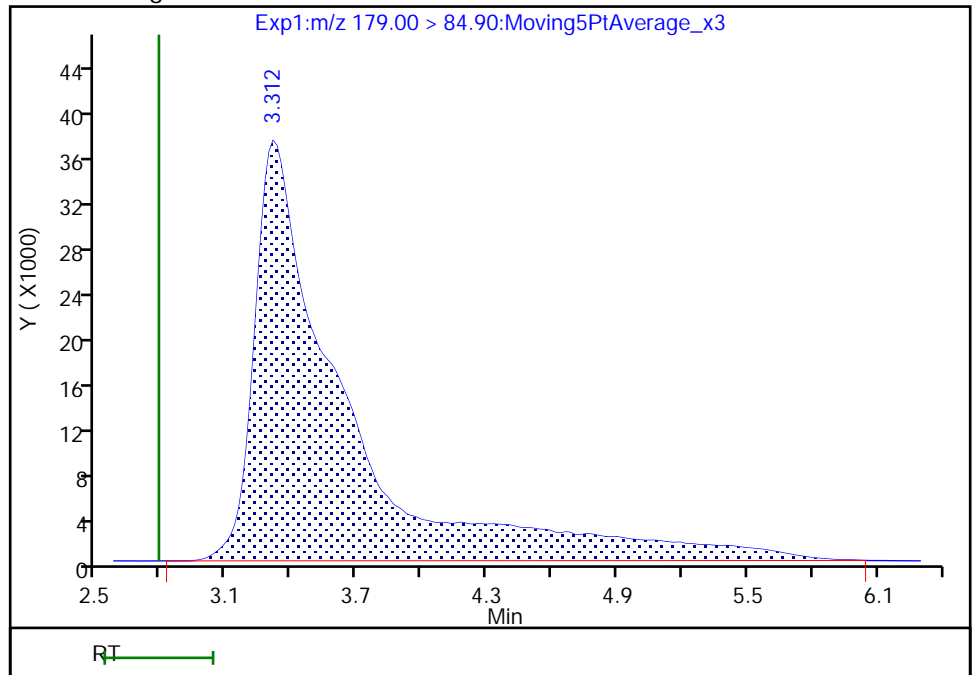
Not Detected  
Expected RT: 2.79

Processing Integration Results



RT: 3.31  
Area: 1082784  
Amount: 0.087628  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 16-Dec-2020 10:25:13  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 267 of 331

Eurofins TestAmerica, Sacramento

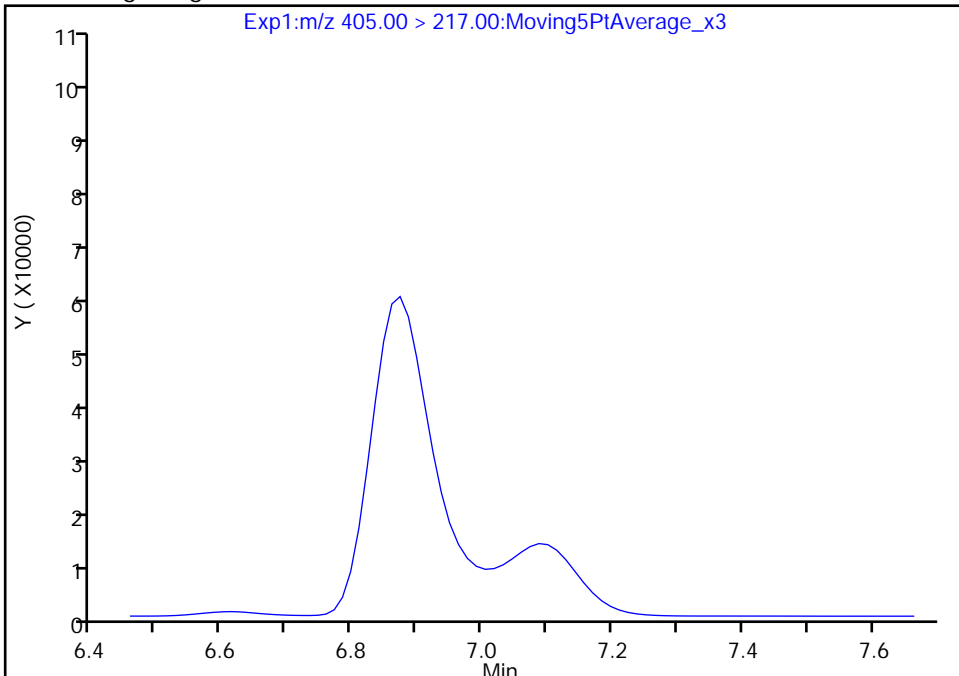
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

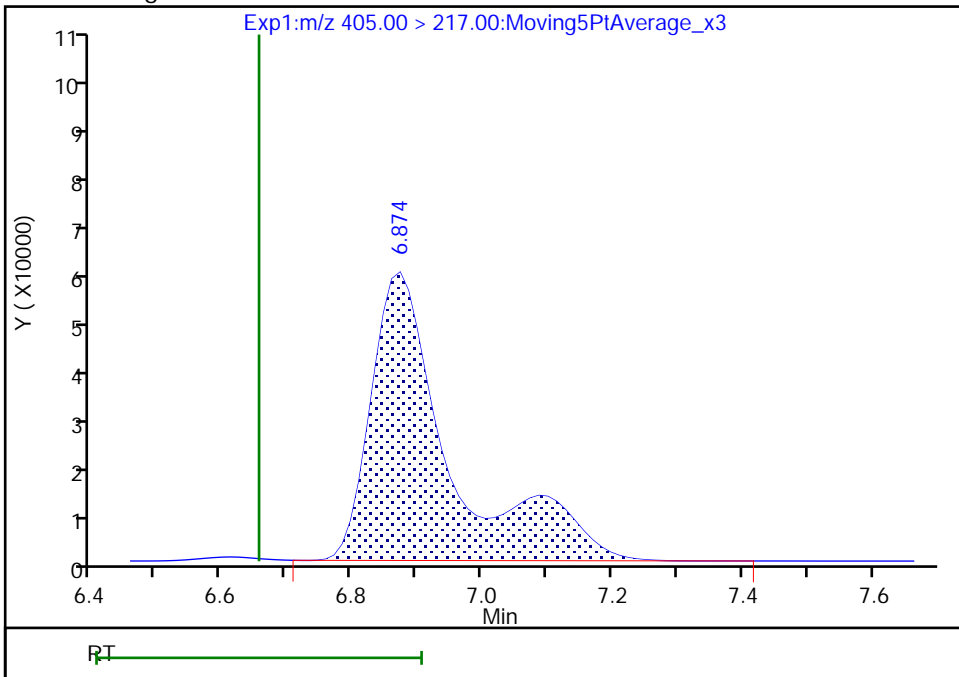
Not Detected  
Expected RT: 6.66

Processing Integration Results



Manual Integration Results

RT: 6.87  
Area: 505484  
Amount: 0.100595  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 10:25:27  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 268 of 331



Eurofins TestAmerica, Sacramento

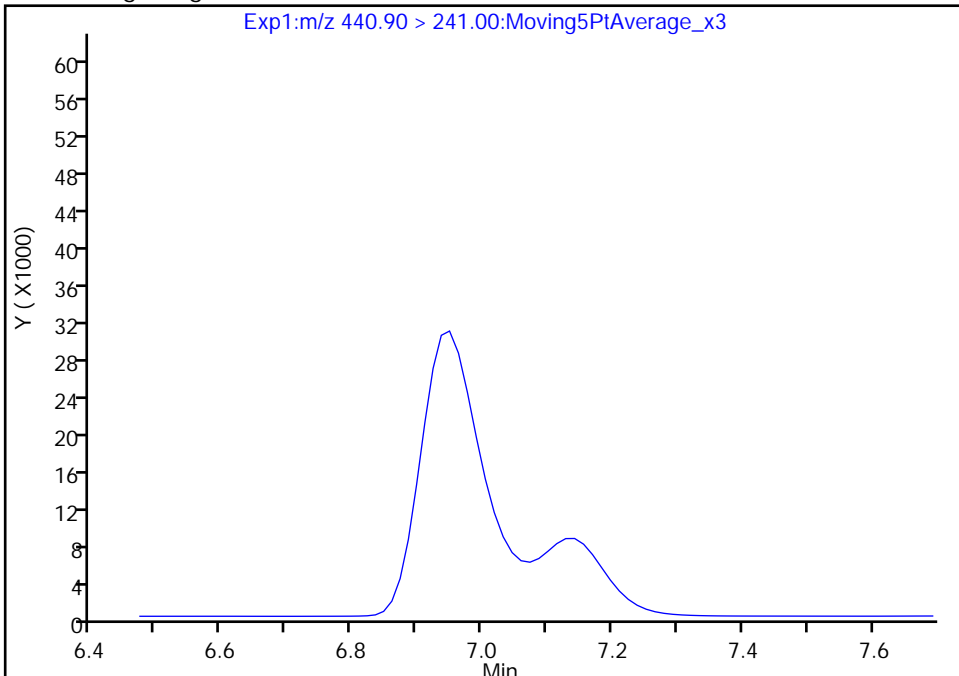
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_016.d  
Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

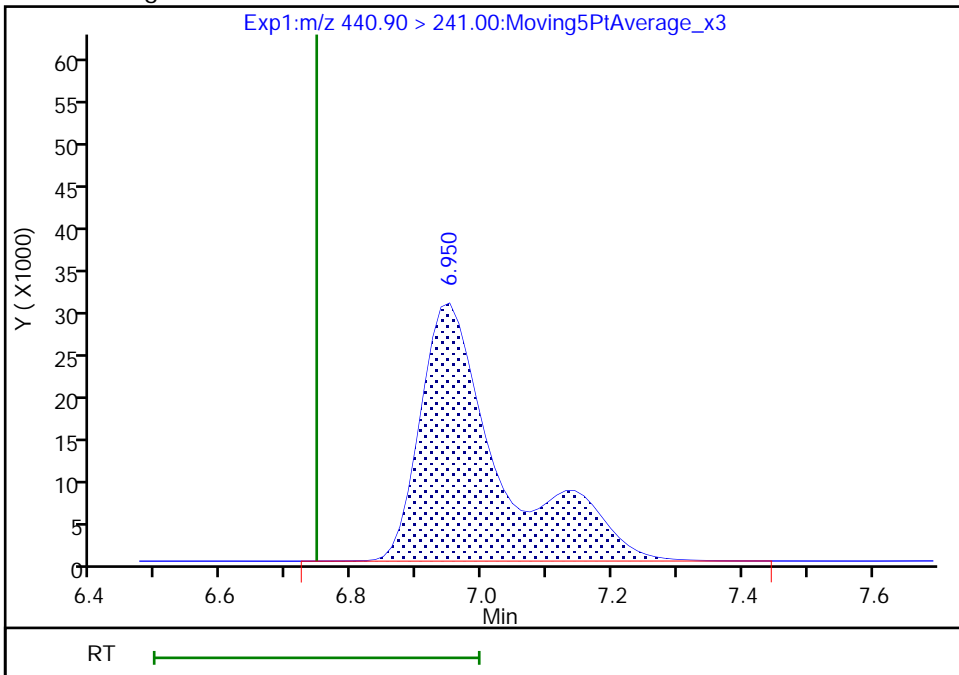
Not Detected  
Expected RT: 6.75

Processing Integration Results



Manual Integration Results

RT: 6.95  
Area: 266185  
Amount: 0.104239  
Amount Units: ng/ml



Reviewer: contrerases, 16-Dec-2020 10:25:30  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 269 of 331

Eurofins TestAmerica, Sacramento

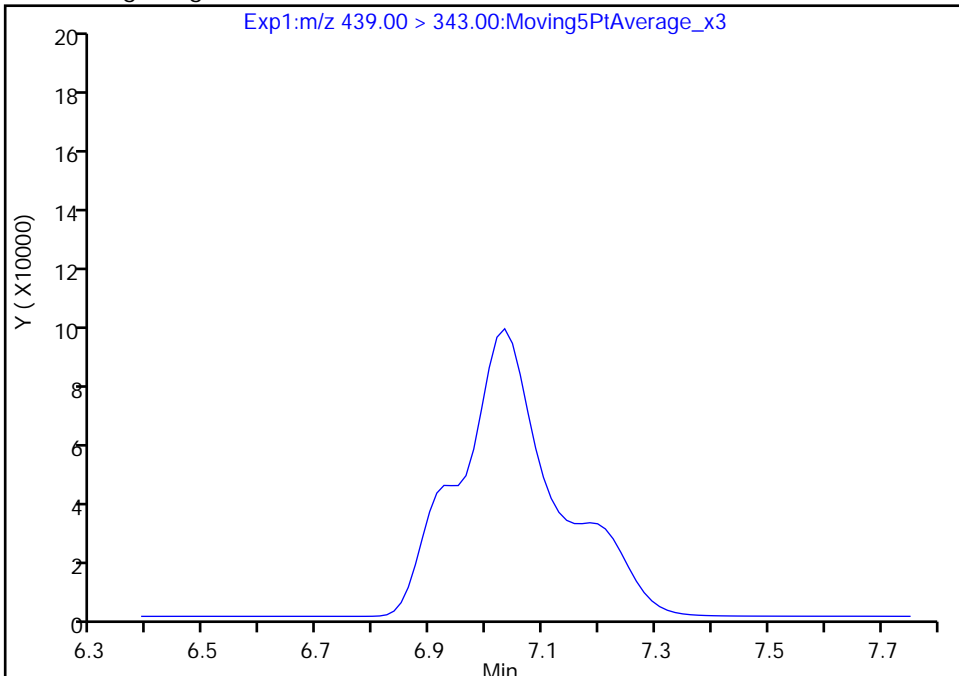
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Injection Date: 15-Dec-2020 23:43:03 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

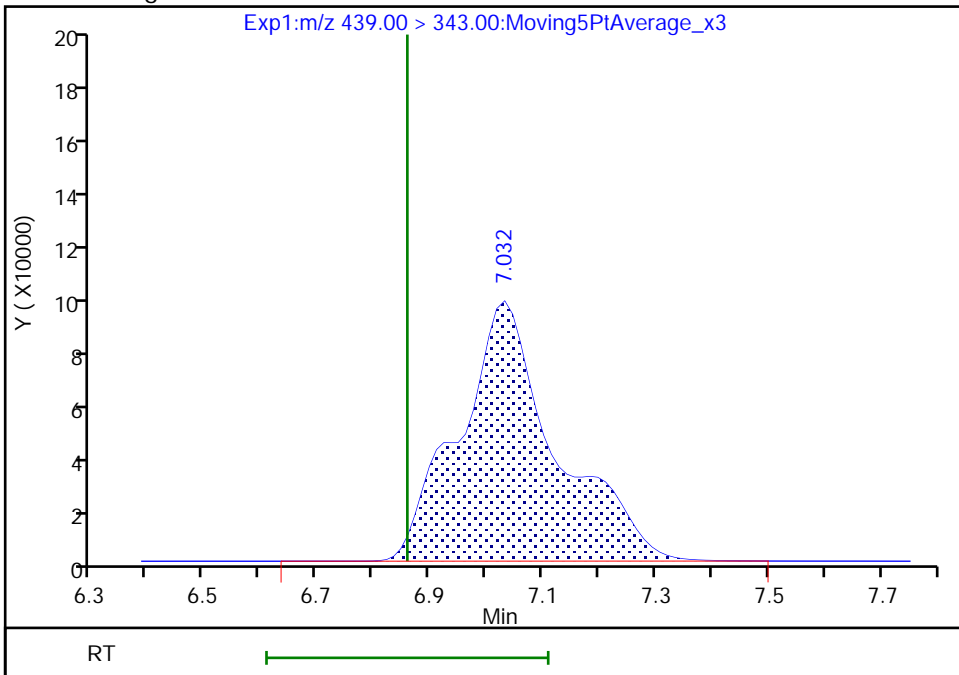
Not Detected  
Expected RT: 6.86

Processing Integration Results



Manual Integration Results

RT: 7.03  
Area: 1124681  
Amount: 0.098787  
Amount Units: ng/ml



Reviewer: contrerese, 16-Dec-2020 10:25:32  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 270 of 331

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-450034/1 Calibration Date: 01/10/2021 04:59  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2021.01.09\_TB3\_A7\_B\_036.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	10859450		87.9	100	-12.1	30.0
R-EVE	Ave	5024931	2960690		58.9	100	-41.1	50.0
R-PSDA	Ave	2553594	1358800		53.2	100	-46.8	50.0
Hydrolyzed PSDA	Ave	11384923	7079140		62.2	100	-37.8	50.0
PMPA	Ave	11489461	9389010		81.7	100	-18.3	30.0
NVHOS	Ave	16008657	13664550		85.4	100	-14.6	30.0
PFO2HxA	Ave	14592930	13176230		90.3	100	-9.7	30.0
PEPA	Ave	9499290	8618430		90.7	100	-9.3	30.0
PES	Ave	87798012	77882210		88.7	100	-11.3	30.0
PFECA B	Ave	10671475	9493210		89.0	100	-11.0	30.0
PFO3OA	Ave	12184521	11118030		91.2	100	-8.8	30.0
HFPO-DA	AveID	1.137	1.207		106	100	6.2	40.0
R-PSDCA	Ave	107014490	109570840		102	100	2.4	30.0
Hydro-EVE Acid	Ave	57360184	54880140		95.7	100	-4.3	30.0
Perfluoroheptanoic acid	L2ID		0.9943		98.9	100	-1.1	40.0
Hydro-PS Acid	Ave	35720701	32567500		91.2	100	-8.8	30.0
PFECA G	Ave	25284933	21763170		86.1	100	-13.9	30.0
PFO4DA	Ave	13464534	9725210		72.2	100	-27.8	30.0
EVE Acid	Ave	54913312	48151910		87.7	100	-12.3	30.0
PS Acid	Ave	16528147	13867560		83.9	100	-16.1	30.0
PFO5DA	Ave	3582969	2836730		79.2	100	-20.8	50.0
13C3 HFPO-DA	Ave	4928972	4650732		236	250	-5.6	50.0
13C4 PFHpA	Ave	22729800	21510204		237	250	-5.4	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_036.d  
 Lims ID: CCV L7 (345)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Jan-2021 04:59:34 ALS Bottle#: 36 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (345)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:54:38 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:54:38

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.452	2.452	0.0	1085945	0.0879		87.9	160	
2 R-EVE	405.00 > 217.00	7.182	7.182	0.0	296069	0.0589		58.9	2412	M
3 R-PSDA	440.90 > 241.00	7.237	7.237	0.0	135880	0.0532		53.2	1473	M
4 Hydrolyzed PSDA	439.00 > 343.00	7.291	7.291	0.0	707914	0.0622		62.2	7507	
5 PMPA	229.00 > 185.00	7.360	7.360	0.0	938901	0.0817		81.7	460	M
6 NVHOS	297.00 > 135.00	7.838	7.838	0.0	1366455	0.0854		85.4	5782	
7 PFO2HxA	245.00 > 85.00	8.342	8.342	0.0	1317623	0.0903		90.3	8176	
8 PEPA	278.90 > 234.90	8.890	8.890	0.0	861843	0.0907		90.7	3658	
9 PES	314.90 > 135.00	9.177	9.177	0.0	7788221	0.0887		88.7	109236	
10 PFECA B	295.00 > 201.00	9.389	9.389	0.0	949321	0.0890		89.0	25281	
11 PFO3OA	310.90 > 85.00	9.623	9.623	0.0	1111803	0.0912		91.2	12151	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.734	9.734	0.0	1162683	0.2359		94.4	31000	
13 HPFO-DA	285.00 > 169.00	9.734	9.734	0.0	1.000	561446	0.1062	106	14982	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.090	10.090	0.0		10957084	0.1024		102	165605	
16 Hydro-EVE Acid										
427.00 > 282.90	10.140	10.140	0.0		5488014	0.0957		95.7	86283	
D 15 13C4 PFHpA										
367.00 > 322.00	10.140	10.140	0.0		5377551	0.2366		94.6	164904	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.140	10.140	0.0	1.000	2138829	0.0989	Target=0.00	98.9	39221	
363.00 > 169.00	10.140	10.140	0.0	1.000	1324202		1.62(0.00-0.00)		30439	
17 Hydro-PS Acid										
463.00 > 262.90	10.165	10.165	0.0		3256750	0.0912		91.2	80858	
19 PFECA G										
378.90 > 184.90	10.264	10.264	0.0		2176317	0.0861		86.1	68841	
20 PFO4DA										
376.90 > 85.00	10.413	10.413	0.0		972521	0.0722		72.2	11544	
22 EVE Acid										
407.00 > 262.90	10.462	10.462	0.0		4815191	0.0877		87.7	116313	
21 PS Acid										
443.00 > 146.90	10.462	10.462	0.0		1386756	0.0839		83.9	33511	
23 TAF										
442.90 > 85.00	10.950	10.950	0.0		283673	0.0792		79.2	907	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00340

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_036.d

Injection Date: 10-Jan-2021 04:59:34

Instrument ID: A7\_N

Lims ID: CCV L7 (345)

Client ID:

Operator ID: abservice

ALS Bottle#: 36

Worklist Smp#: 1

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

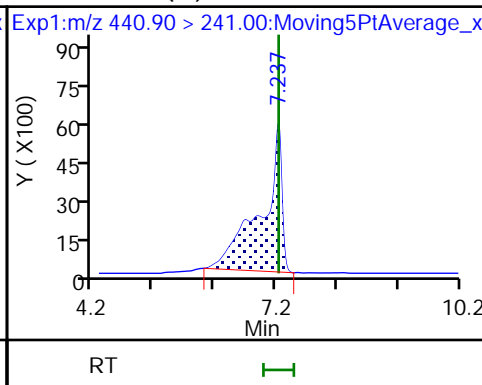
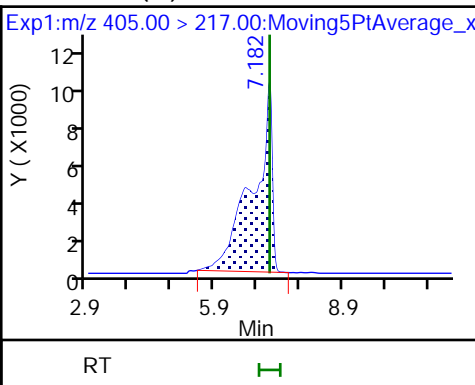
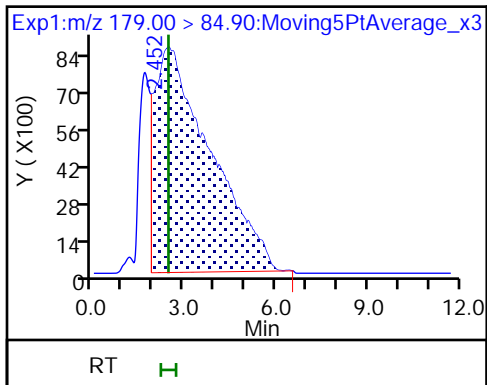
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA

2 R-EVE (M)

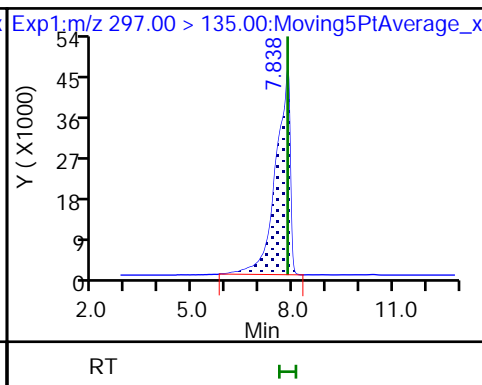
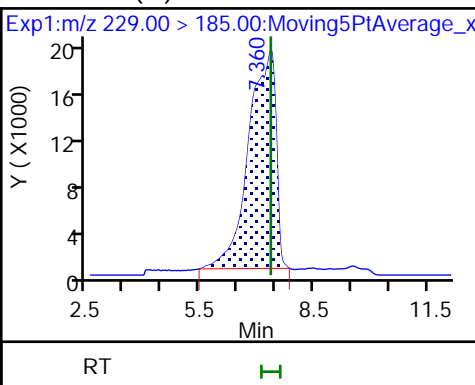
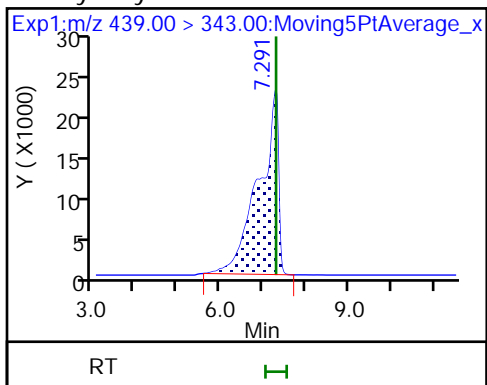
3 R-PSDA (M)



4 Hydrolyzed PSDA

5 PMPA (M)

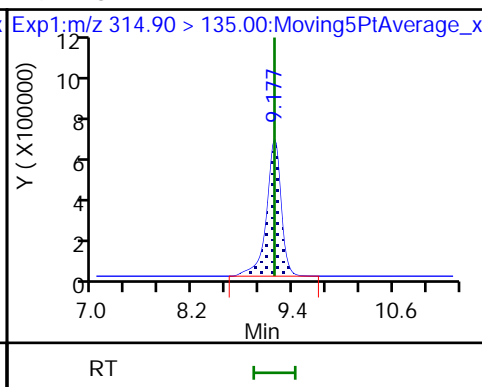
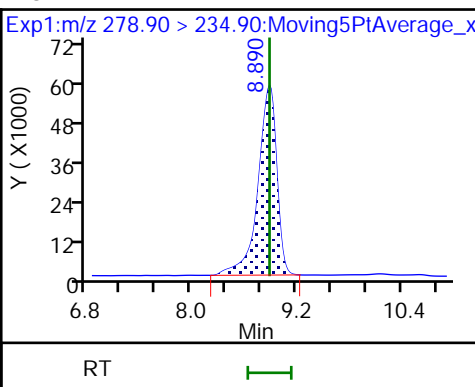
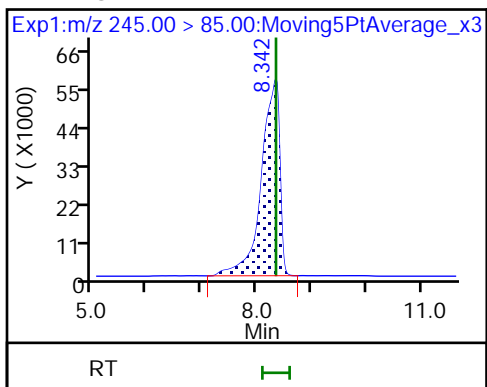
6 NVHOS



7 PFO2HxA

8 PEPA

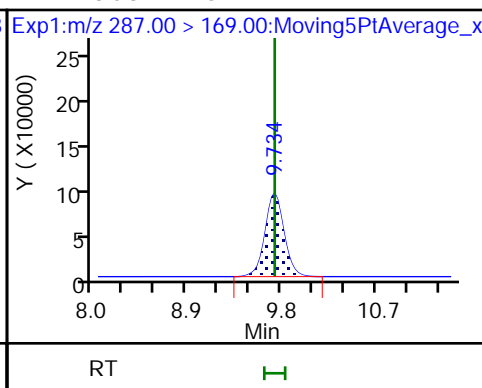
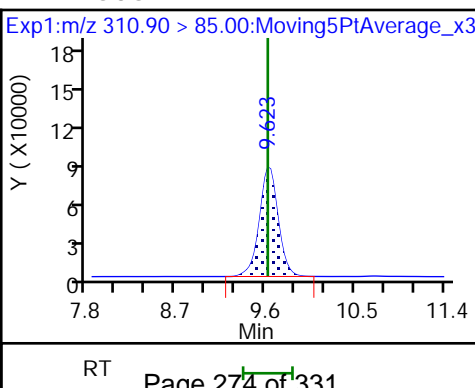
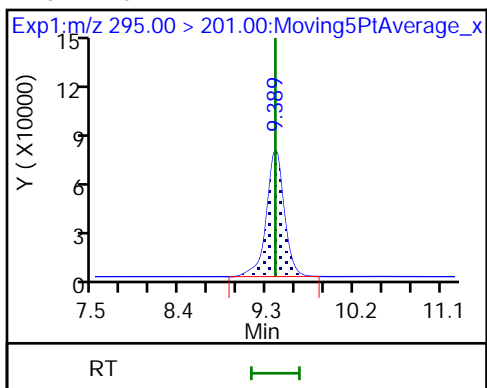
9 PES

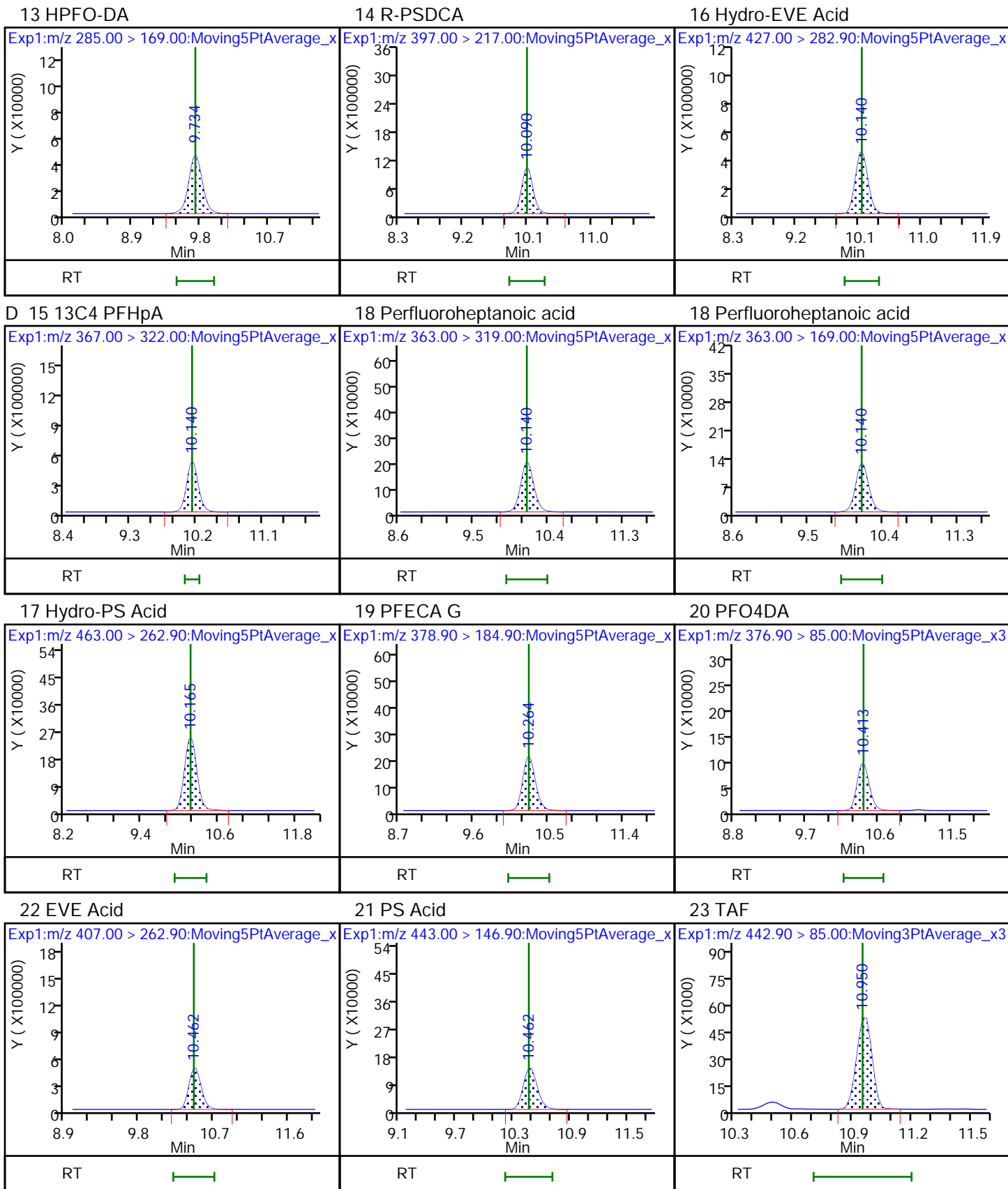


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

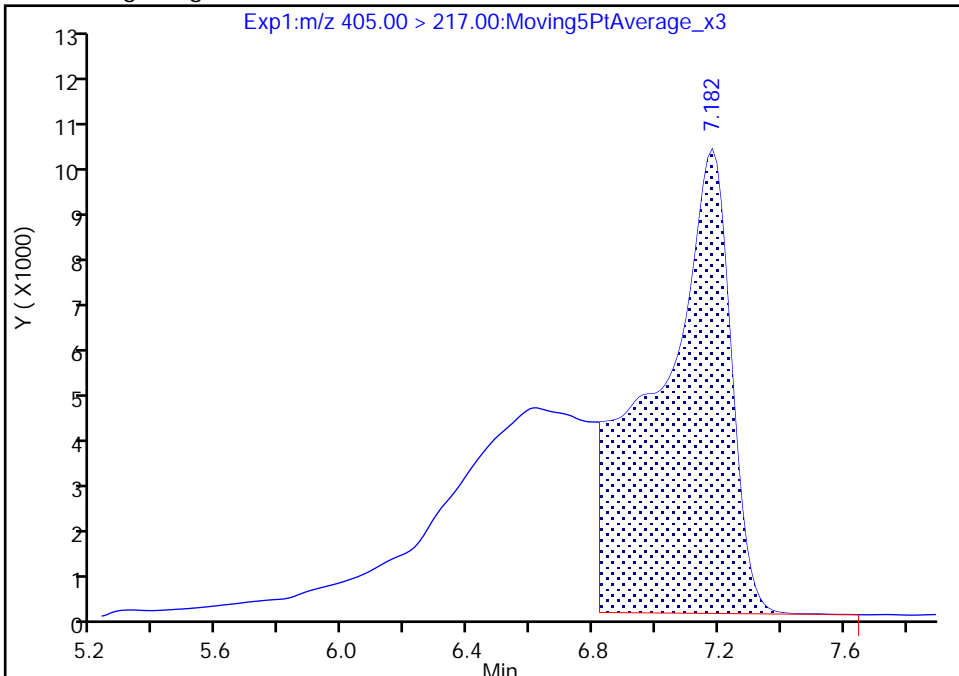
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Injection Date: 10-Jan-2021 04:59:34 Instrument ID: A7\_N  
Lims ID: CCV L7 (345)  
Client ID:  
Operator ID: abservice ALS Bottle#: 36 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

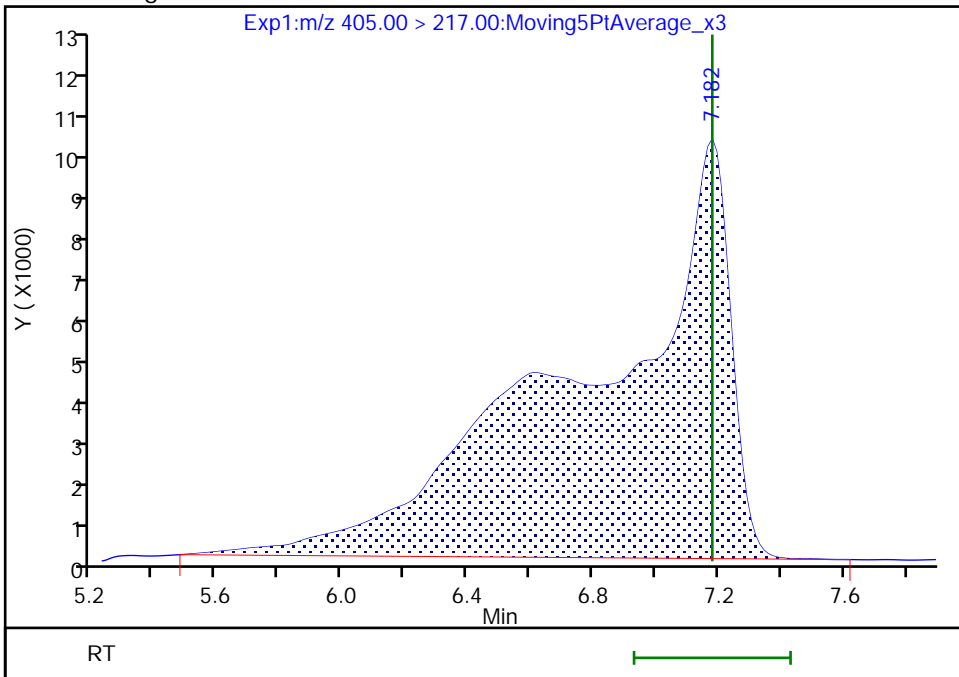
RT: 7.18  
Area: 156990  
Amount: 0.031242  
Amount Units: ng/ml

Processing Integration Results



RT: 7.18  
Area: 296069  
Amount: 0.058920  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 10-Jan-2021 08:02:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

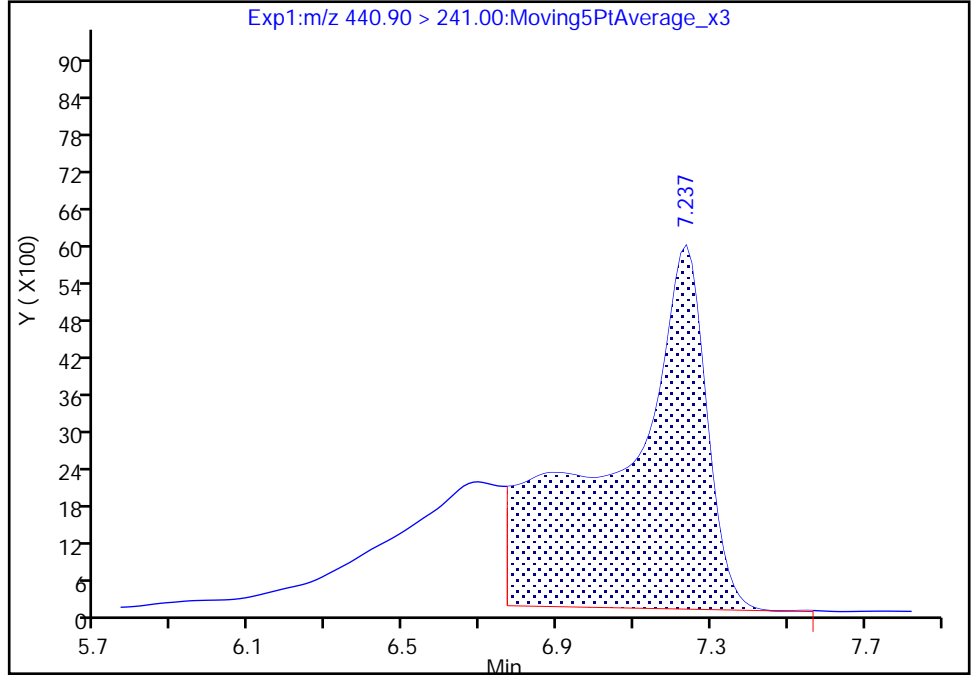
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Injection Date: 10-Jan-2021 04:59:34 Instrument ID: A7\_N  
Lims ID: CCV L7 (345)  
Client ID:  
Operator ID: abservice ALS Bottle#: 36 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

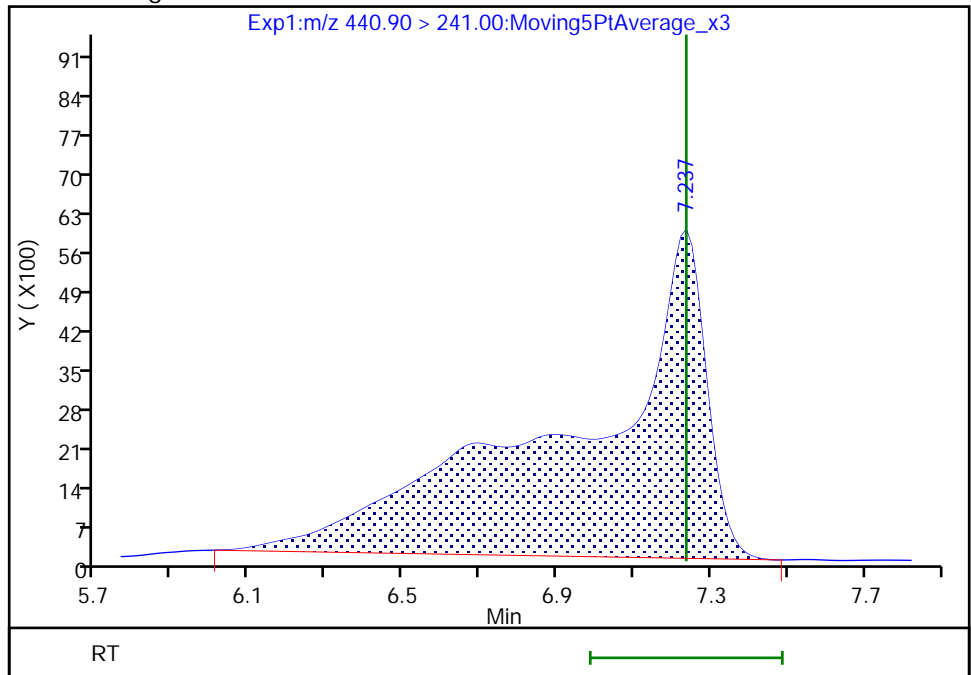
RT: 7.24  
Area: 95723  
Amount: 0.037486  
Amount Units: ng/ml

Processing Integration Results



RT: 7.24  
Area: 135880  
Amount: 0.053211  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

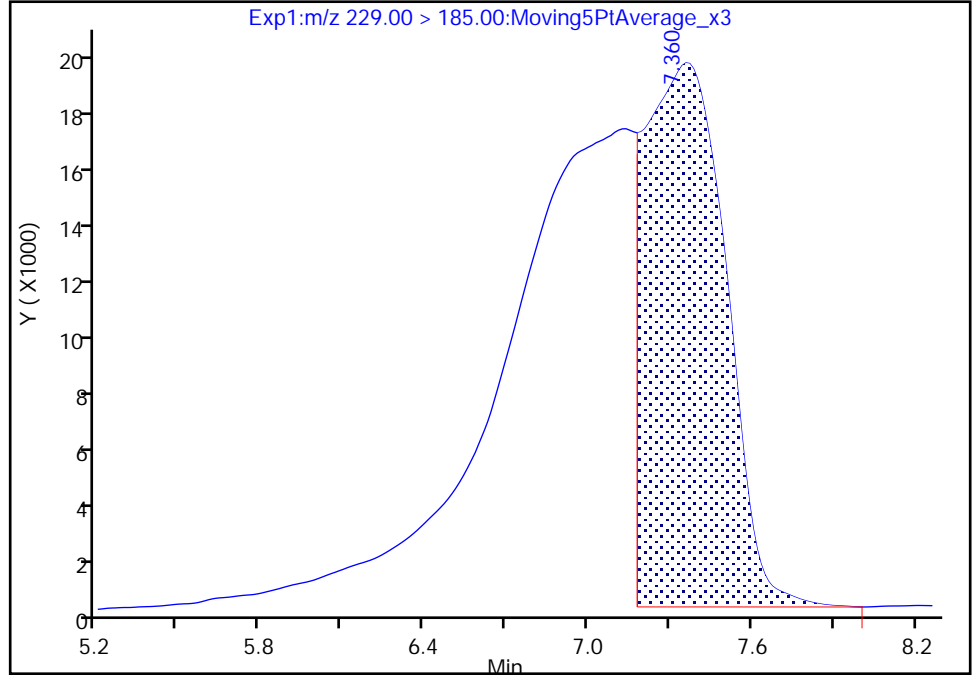
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_036.d  
Injection Date: 10-Jan-2021 04:59:34 Instrument ID: A7\_N  
Lims ID: CCV L7 (345)  
Client ID:  
Operator ID: abservice ALS Bottle#: 36 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

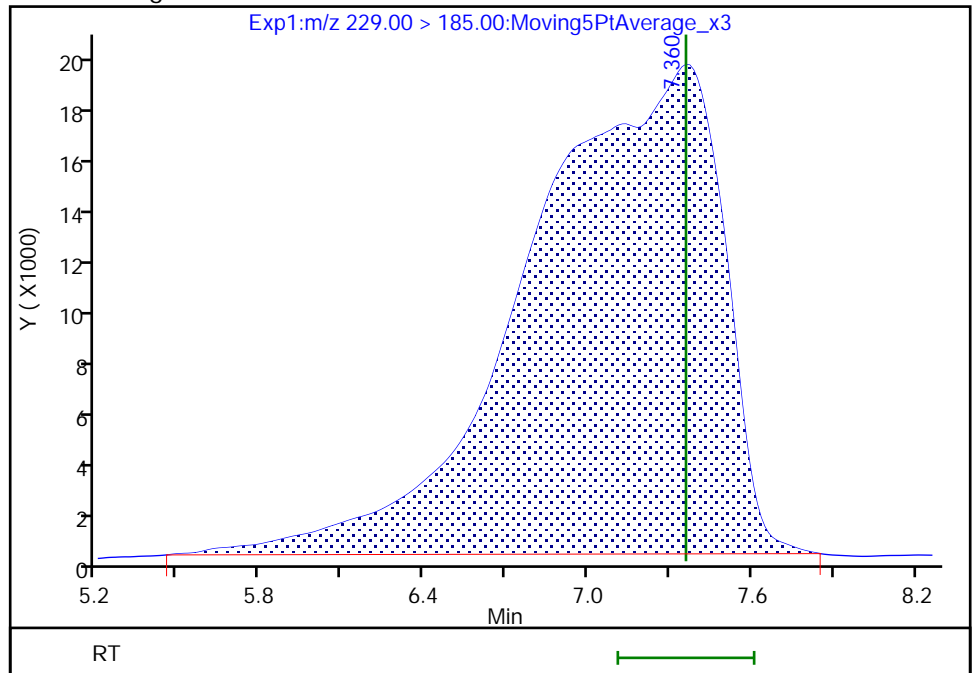
RT: 7.36  
Area: 387168  
Amount: 0.033698  
Amount Units: ng/ml

Processing Integration Results



RT: 7.36  
Area: 938901  
Amount: 0.081718  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-450034/13 Calibration Date: 01/10/2021 08:30  
 Instrument ID: A7\_N Calib Start Date: 12/15/2020 20:11  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 12/15/2020 23:07  
 Lab File ID: 2021.01.09\_TB3\_A7\_B\_048.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12356531	12506570		101	100	1.2	30.0
R-EVE	Ave	5024931	4042270		80.4	100	-19.6	50.0
R-PSDA	Ave	2553594	2099830		82.2	100	-17.8	50.0
Hydrolyzed PSDA	Ave	11384923	10136080		89.0	100	-11.0	50.0
PMPA	Ave	11489461	11503630		100	100	0.1	30.0
NVHOS	Ave	16008657	16304310		102	100	1.8	30.0
PFO2HxA	Ave	14592930	14284190		97.9	100	-2.1	30.0
PEPA	Ave	9499290	9468020		99.7	100	-0.3	30.0
PES	Ave	87798012	88162490		100	100	0.4	30.0
PFECA B	Ave	10671475	10891360		102	100	2.1	30.0
PFO3OA	Ave	12184521	12439350		102	100	2.1	30.0
HFPO-DA	AveID	1.137	1.184		104	100	4.1	40.0
R-PSDCA	Ave	107014490	111550120		104	100	4.2	30.0
Hydro-EVE Acid	Ave	57360184	59919440		104	100	4.5	30.0
Perfluoroheptanoic acid	L2ID		1.083		108	100	7.7	40.0
Hydro-PS Acid	Ave	35720701	37184950		104	100	4.1	30.0
PFECA G	Ave	25284933	23396080		92.5	100	-7.5	30.0
PFO4DA	Ave	13464534	14125290		105	100	4.9	30.0
EVE Acid	Ave	54913312	56257520		102	100	2.4	30.0
PS Acid	Ave	16528147	15644250		94.7	100	-5.3	30.0
PFO5DA	Ave	3582969	3440050		96.0	100	-4.0	50.0
13C3 HFPO-DA	Ave	4928972	5085132		258	250	3.2	50.0
13C4 PFHpA	Ave	22729800	23706744		261	250	4.3	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_048.d  
 Lims ID: CCV L7 (345)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Jan-2021 08:30:28 ALS Bottle#: 48 Worklist Smp#: 13  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (345)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:55:12 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:55:12

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	3.535	2.452	1.083	1250657	0.1012		101	2304	M
2 R-EVE	405.00 > 217.00	6.967	7.182	-0.215	404227	0.0804		80.4	8937	
3 R-PSDA	440.90 > 241.00	7.049	7.237	-0.188	209983	0.0822		82.2	6755	
4 Hydrolyzed PSDA	439.00 > 343.00	7.132	7.291	-0.159	1013608	0.0890		89.0	24453	
5 PMPA	229.00 > 185.00	7.173	7.360	-0.187	1150363	0.1001		100	1760	
6 NVHOS	297.00 > 135.00	7.712	7.838	-0.126	1630431	0.1018		102	17233	
7 PFO2HxA	245.00 > 85.00	8.271	8.342	-0.071	1428419	0.0979		97.9	12718	
8 PEPA	278.90 > 234.90	8.877	8.890	-0.013	946802	0.0997		99.7	5206	
9 PES	314.90 > 135.00	9.181	9.177	0.004	8816249	0.1004		100	162117	
10 PFECA B	295.00 > 201.00	9.394	9.389	0.005	1089136	0.1021		102	26429	
11 PFO3OA	310.90 > 85.00	9.630	9.623	0.007	1243935	0.1021		102	15578	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.740	9.734	0.006	1271283	0.2579		103	37045	
13 HPFO-DA	285.00 > 169.00	9.740	9.734	0.006	601918	0.1041	1.000	104	17710	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.098	10.090	0.008		11155012	0.1042		104	170872	
16 Hydro-EVE Acid										
427.00 > 282.90	10.124	10.140	-0.016		5991944	0.1045		104	95484	
D 15 13C4 PFHpA										
367.00 > 322.00	10.150	10.140	0.010		5926686	0.2607		104	182123	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.150	10.140	0.010	1.000	2566557	0.1077	Target=0.00	108	39641	
363.00 > 169.00	10.150	10.140	0.010	1.000	1526519		1.68(0.00-0.00)		35241	
17 Hydro-PS Acid										
463.00 > 262.90	10.176	10.165	0.011		3718495	0.1041		104	92136	
19 PFECA G										
378.90 > 184.90	10.255	10.264	-0.009		2339608	0.0925		92.5	74186	
20 PFO4DA										
376.90 > 85.00	10.406	10.413	-0.007		1412529	0.1049		105	15443	
22 EVE Acid										
407.00 > 262.90	10.481	10.462	0.019		5625752	0.1024		102	136993	
21 PS Acid										
443.00 > 146.90	10.481	10.462	0.019		1564425	0.0947		94.7	38453	
23 TAF										
442.90 > 85.00	10.952	10.950	0.002		344005	0.0960		96.0	1141	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00340

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_048.d

Injection Date: 10-Jan-2021 08:30:28

Instrument ID: A7\_N

Lims ID: CCV L7 (345)

Client ID:

Operator ID: abservice

ALS Bottle#: 48

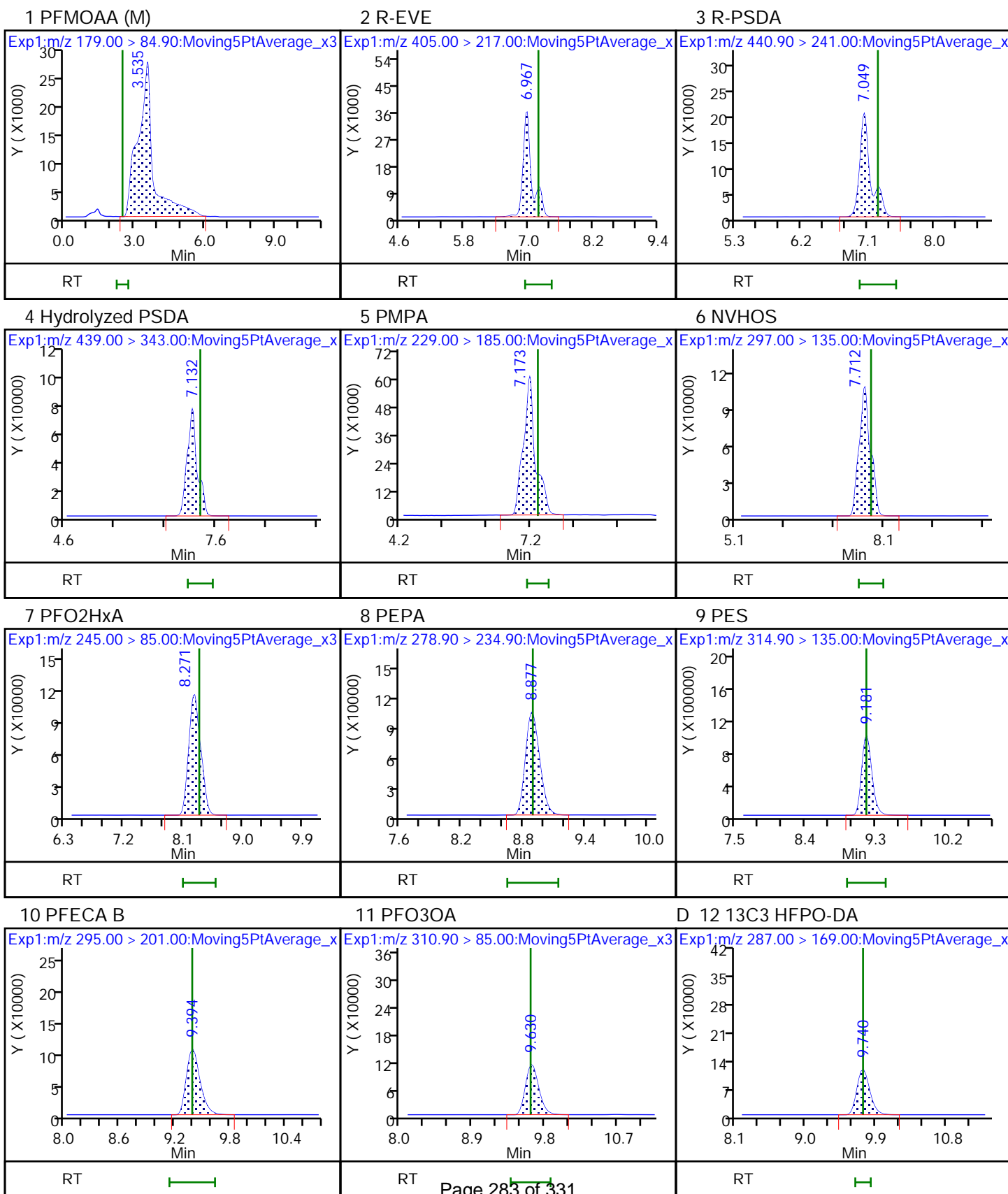
Worklist Smp#: 13

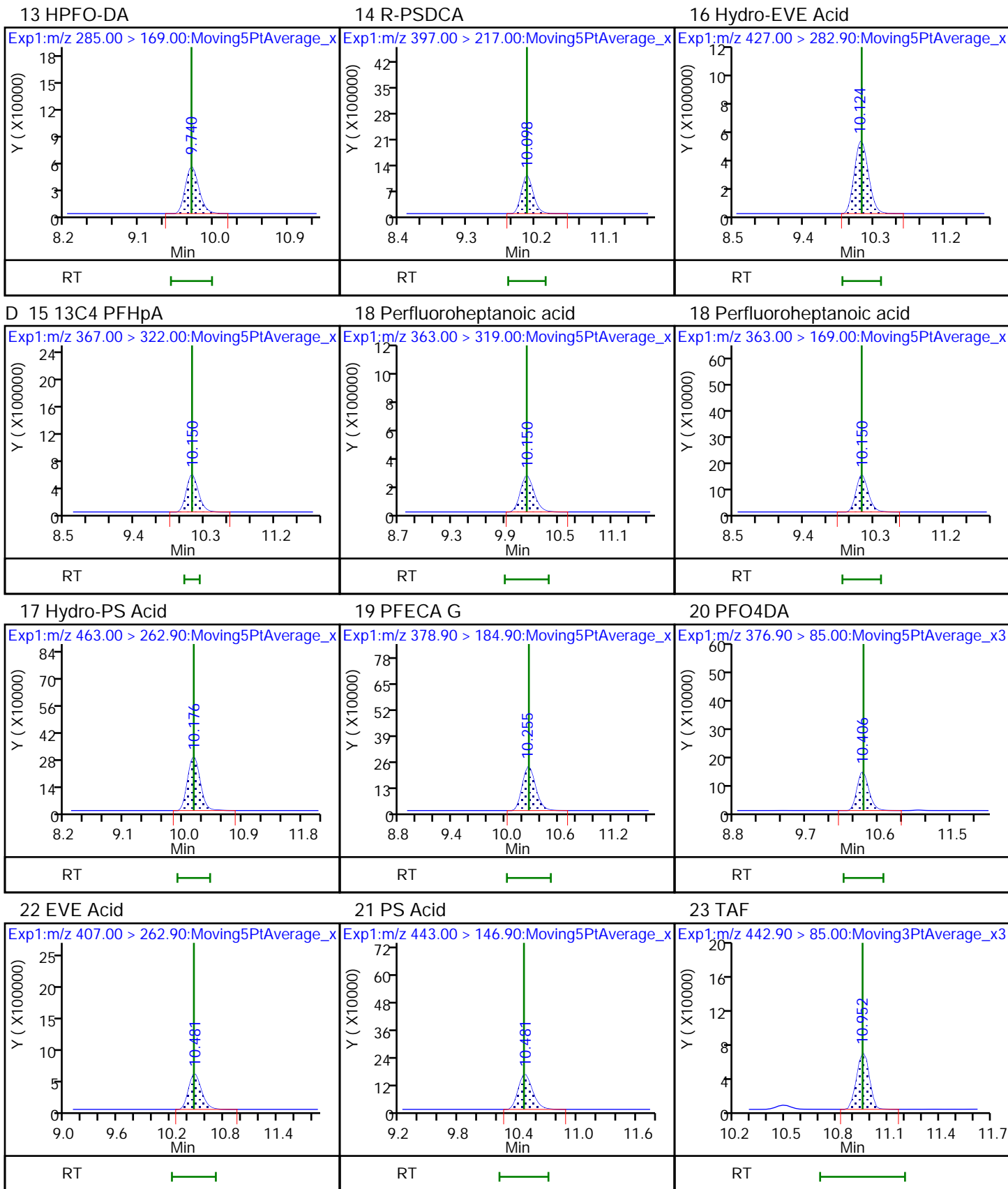
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

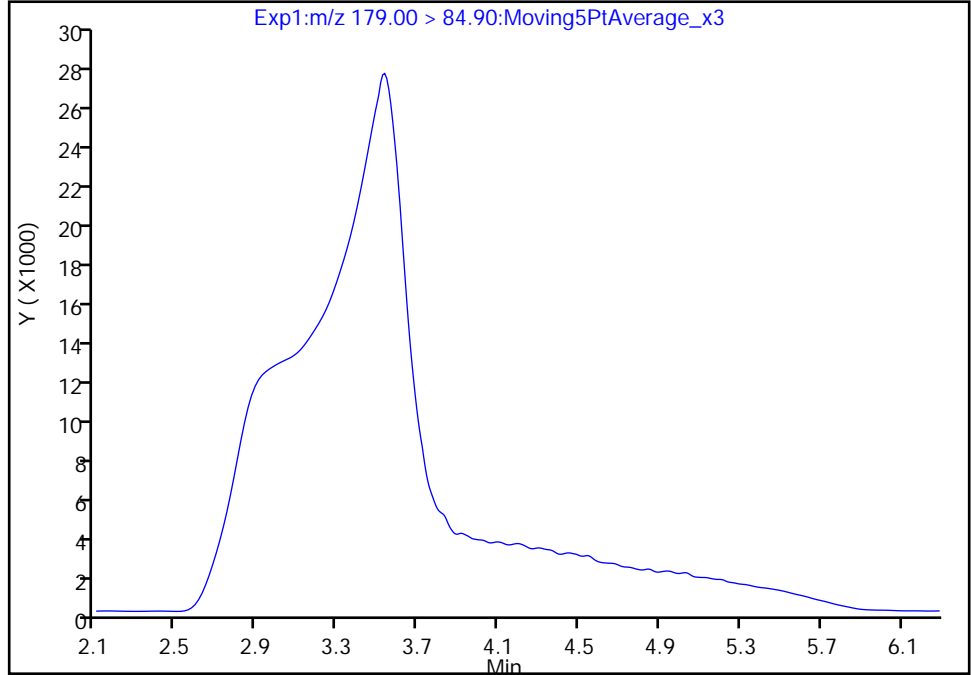
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Injection Date: 10-Jan-2021 08:30:28 Instrument ID: A7\_N  
Lims ID: CCV L7 (345)  
Client ID:  
Operator ID: abservice ALS Bottle#: 48 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

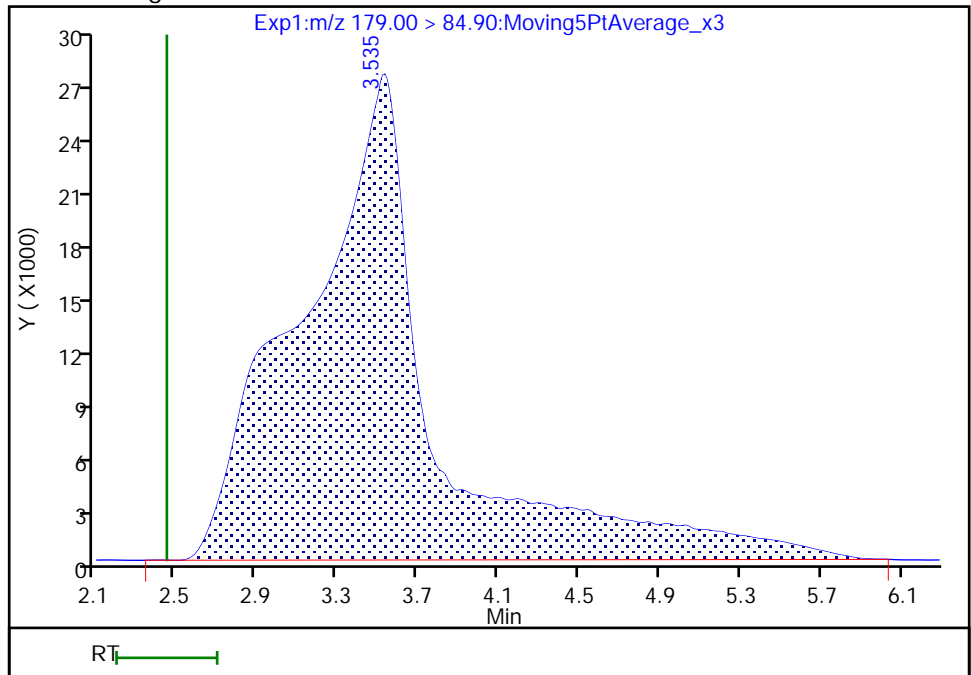
Not Detected  
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 3.53  
Area: 1250657  
Amount: 0.101214  
Amount Units: ng/ml



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-449645/1-A  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_038.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/10/2021 05:34  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	112		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_038.d  
 Lims ID: MB 320-449645/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 10-Jan-2021 05:34:44 ALS Bottle#: 38 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-449645/1-a (DUE: 1/27)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:55:44 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:55:44  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
7 PFO2HxA										M
245.00 > 85.00	8.237	8.342	-0.105		7267	0.000498		65.9		M
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.714	9.734	-0.020		1380370	0.2801		112	40521	
21 PS Acid										M
443.00 > 146.90	10.445	10.462	-0.017		5363	0.000324		179		M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_038.d

Injection Date: 10-Jan-2021 05:34:44

Instrument ID: A7\_N

Lims ID: MB 320-449645/1-A

Client ID:

Operator ID: abservice

ALS Bottle#: 38

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

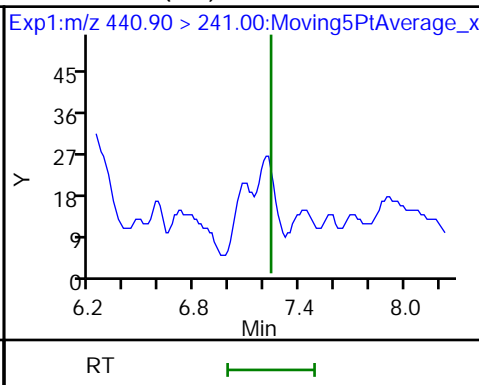
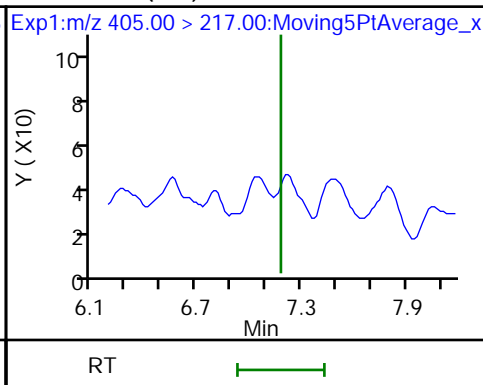
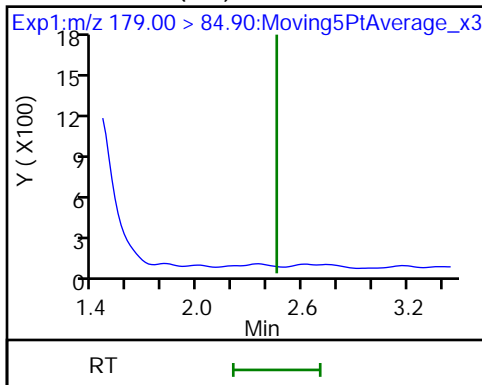
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

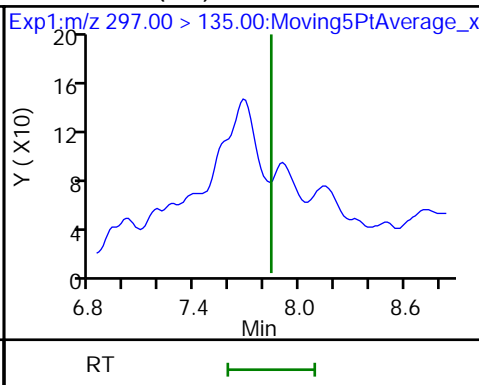
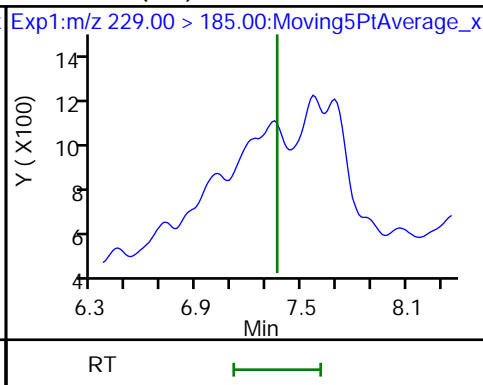
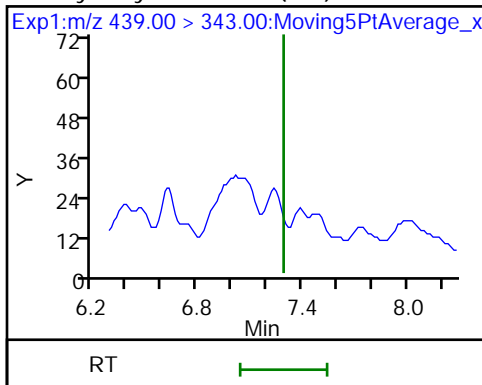
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

5 PMPA (ND)

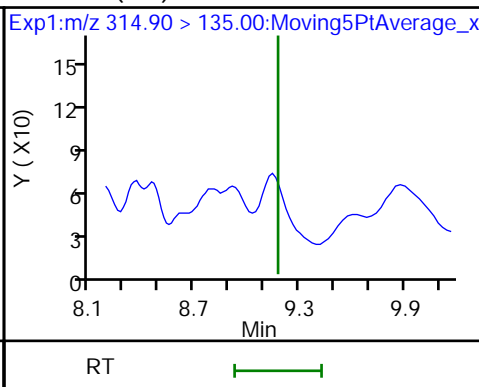
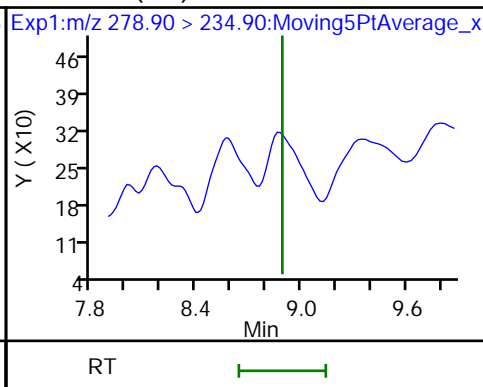
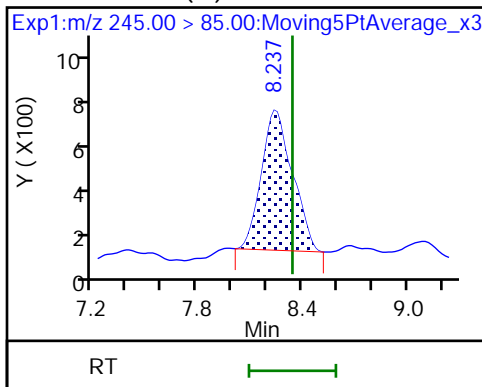
6 NVHOS (ND)



7 PFO2HxA (M)

8 PEPA (ND)

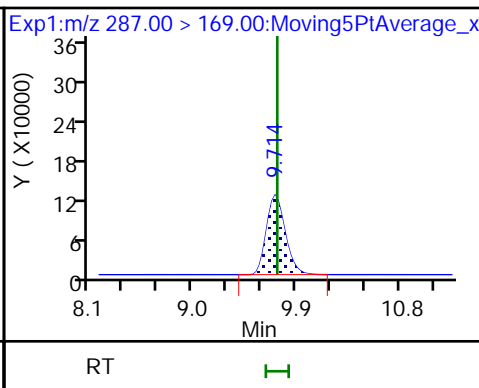
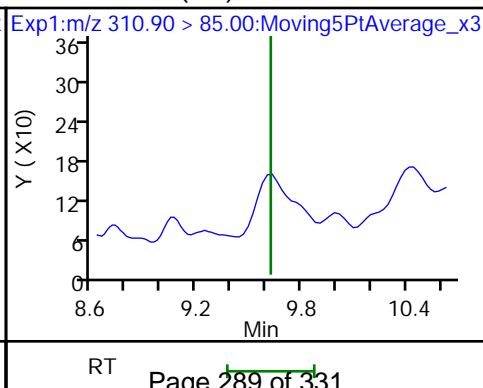
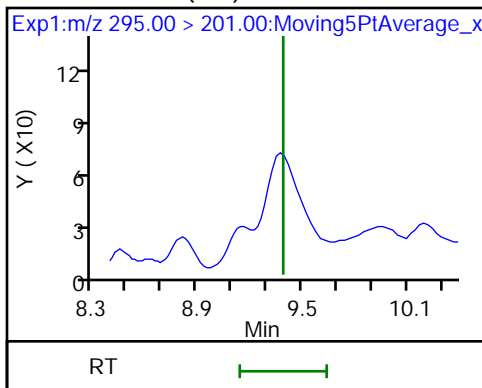
9 PES (ND)

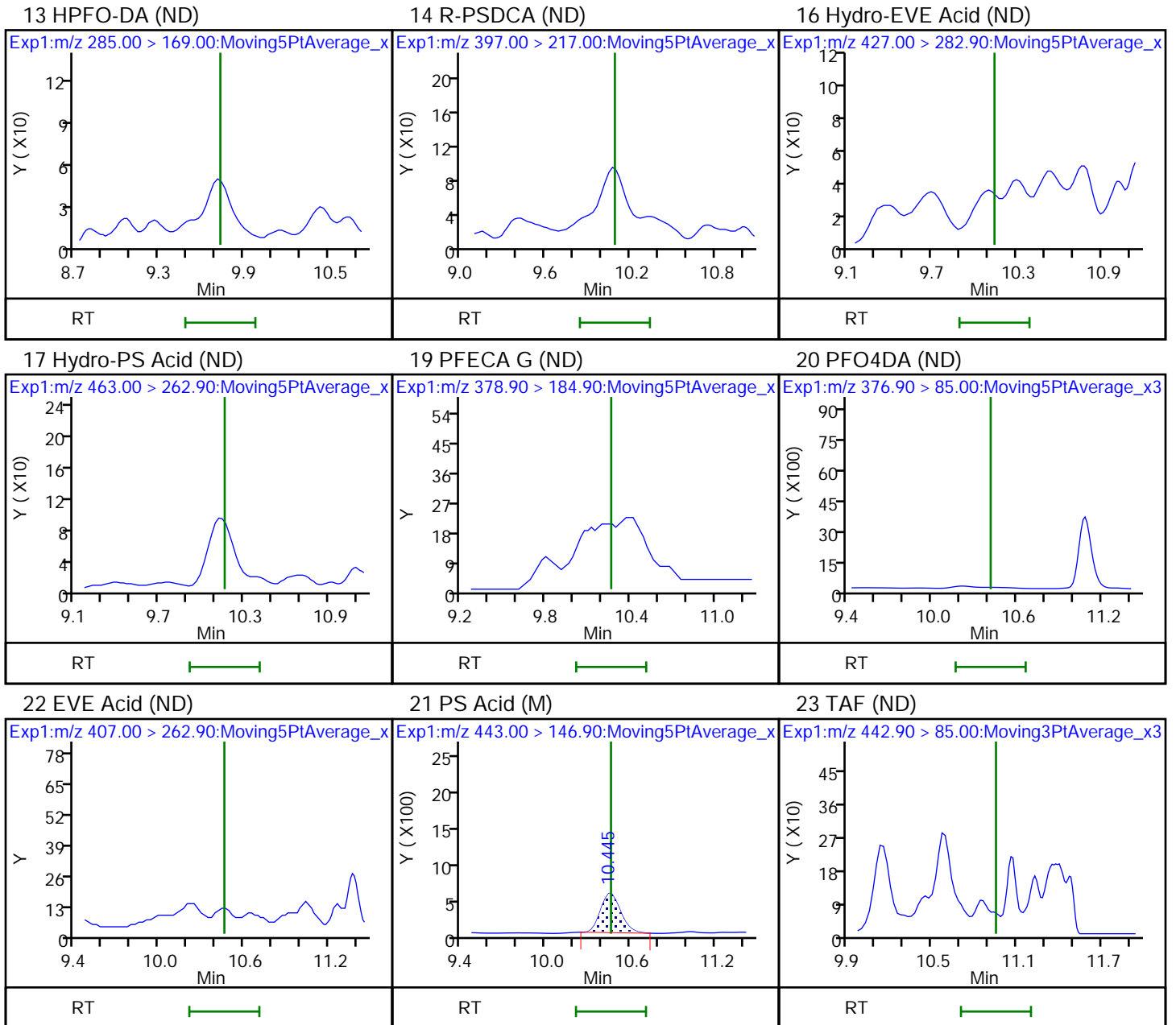


10 PFECA B (ND)

11 PFO3OA (ND)

D 12 13C3 HFPO-DA





Eurofins TestAmerica, Sacramento

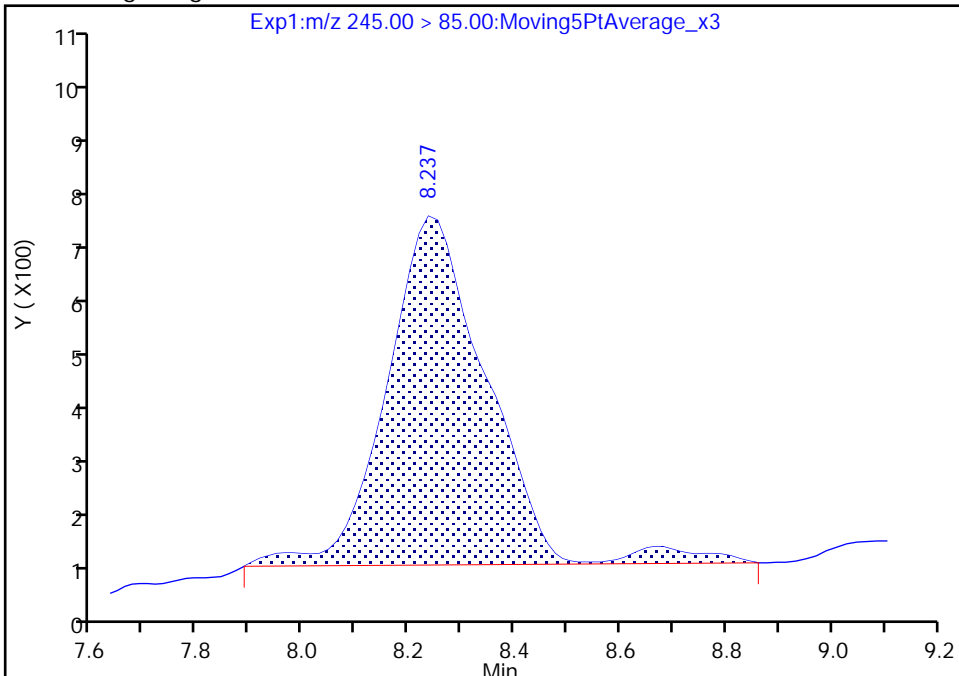
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_038.d  
Injection Date: 10-Jan-2021 05:34:44 Instrument ID: A7\_N  
Lims ID: MB 320-449645/1-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

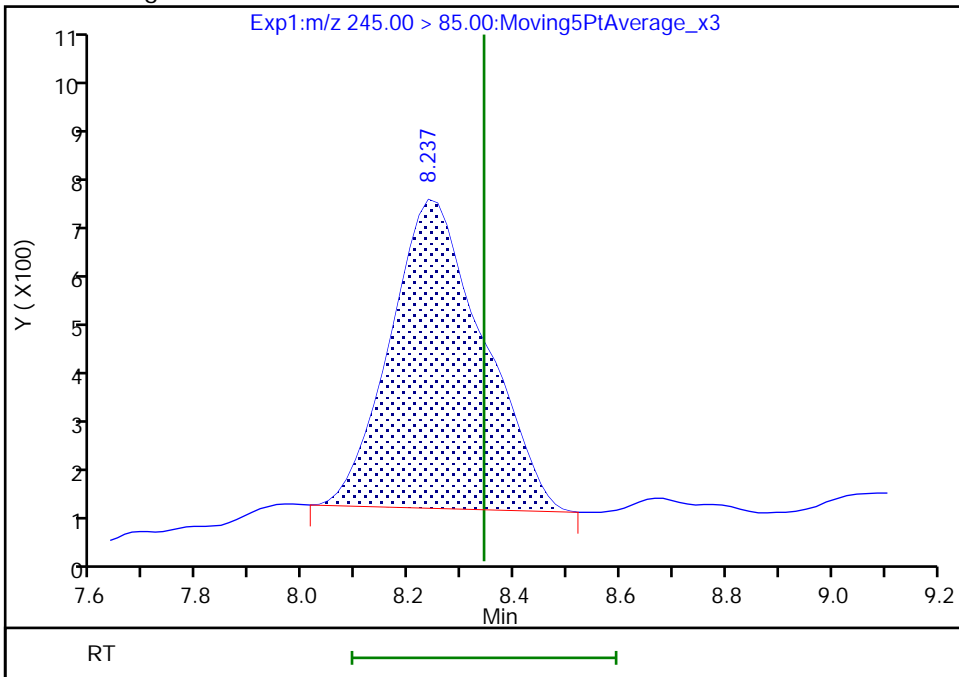
RT: 8.24  
Area: 8037  
Amount: 0.000551  
Amount Units: ng/ml

Processing Integration Results



RT: 8.24  
Area: 7267  
Amount: 0.000498  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:55:28  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 291 of 331

Eurofins TestAmerica, Sacramento

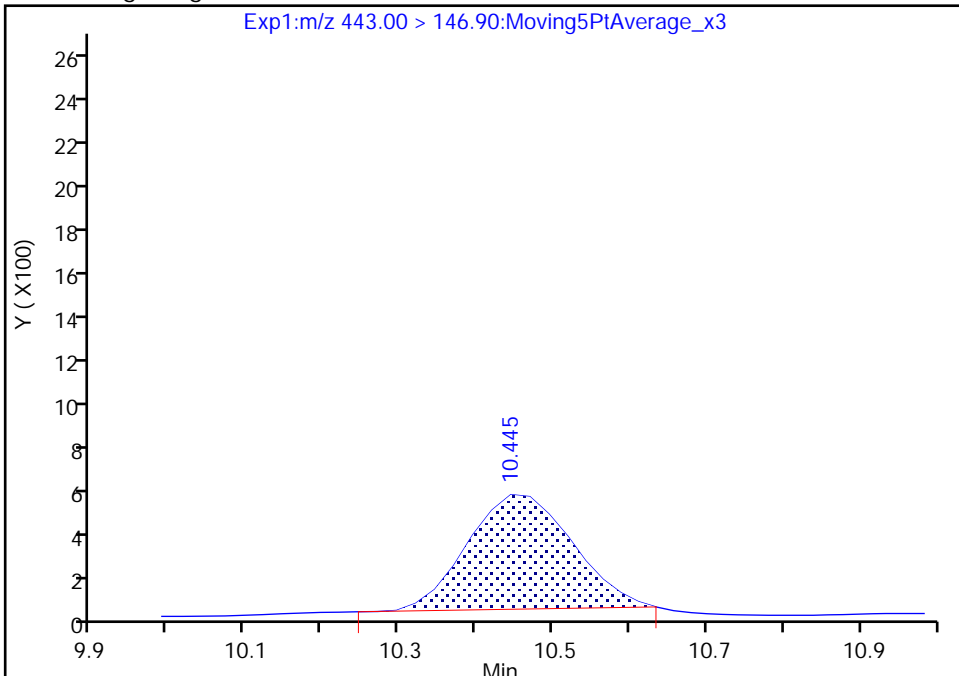
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_038.d  
 Injection Date: 10-Jan-2021 05:34:44 Instrument ID: A7\_N  
 Lims ID: MB 320-449645/1-A  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

21 PS Acid, CAS: 29311-67-9

Signal: 1

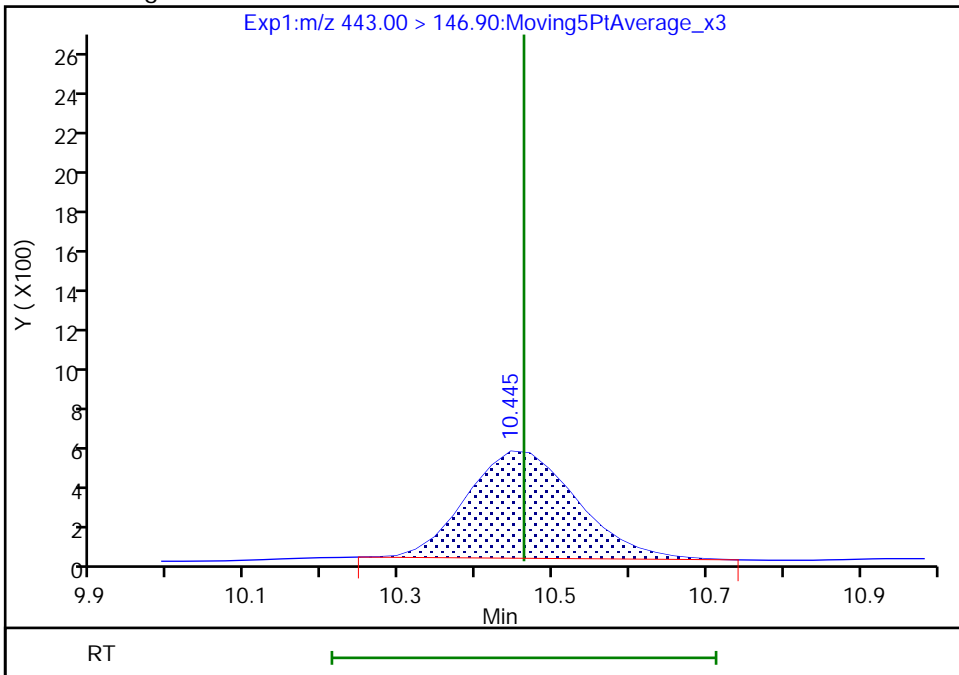
RT: 10.45  
 Area: 4917  
 Amount: 0.000297  
 Amount Units: ng/ml

Processing Integration Results



RT: 10.45  
 Area: 5363  
 Amount: 0.000324  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:55:39  
 Audit Action: Manually Integrated



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-449645/2-A  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_045.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/10/2021 07:37  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.206		0.0020	
13252-13-6	HFPO-DA	0.198		0.0020	
773804-62-9	Hydro-EVE Acid	0.212		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.219		0.0020	
749836-20-2	Hydro-PS Acid	0.209		0.0020	
1132933-86-8	NVHOS	0.202		0.0020	
267239-61-2	PEPA	0.200		0.010	
113507-82-7	PES	0.196		0.0020	
151772-58-6	PFECA B	0.211		0.0020	
801212-59-9	PFECA G	0.180		0.0020	
674-13-5	PFMOAA	0.214		0.0020	
39492-88-1	PFO2HxA	0.199		0.0020	
39492-89-2	PFO3OA	0.190		0.0020	
39492-90-5	PFO4DA	0.199		0.0020	
39492-91-6	PFO5DA	0.201		0.0020	
13140-29-9	PMPA	0.197		0.020	
29311-67-9	PS Acid	0.199		0.0020	
2416366-22-6	R-EVE	0.205		0.0020	
2416366-18-0	R-PSDA	0.213		0.0020	
2416366-21-5	R-PSDCA	0.212		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	113		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_045.d  
 Lims ID: LCS 320-449645/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 10-Jan-2021 07:37:46 ALS Bottle#: 45 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-449645/2-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 08:00:19 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:59:50  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.417	2.452	-0.035	1322567	0.1070		107	1176	
2 R-EVE	405.00 > 217.00	6.669	7.182	-0.513	514742	0.1024		102	4557	M
3 R-PSDA	440.90 > 241.00	6.783	7.237	-0.454	272231	0.1066		107	3438	M
4 Hydrolyzed PSDA	439.00 > 343.00	6.885	7.291	-0.406	1247471	0.1096		110	10807	M
5 PMPA	229.00 > 185.00	6.923	7.360	-0.437	1132386	0.0986		98.6	730	M
6 NVHOS	297.00 > 135.00	7.553	7.838	-0.285	1613393	0.1008		101	10615	M
7 PFO2HxA	245.00 > 85.00	8.178	8.342	-0.164	1454562	0.0997		99.7	9556	
8 PEPA	278.90 > 234.90	8.856	8.890	-0.034	950503	0.1001		100	5203	
9 PES	314.90 > 135.00	9.158	9.177	-0.019	8593583	0.0979		97.9	143015	
10 PFECA B	295.00 > 201.00	9.366	9.389	-0.023	1123989	0.1053		105	34798	
11 PFO3OA	310.90 > 85.00	9.623	9.623	0.0	1159506	0.0952		95.2	16536	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.706	9.734	-0.028	1388807	0.2818		113	39749	
13 HPFO-DA	285.00 > 169.00	9.706	9.734	-0.028	1.000 624112	0.0988		98.8	17787	
14 R-PSDCA	397.00 > 217.00	10.090	10.090	0.0	11338704	0.1060		106	209431	

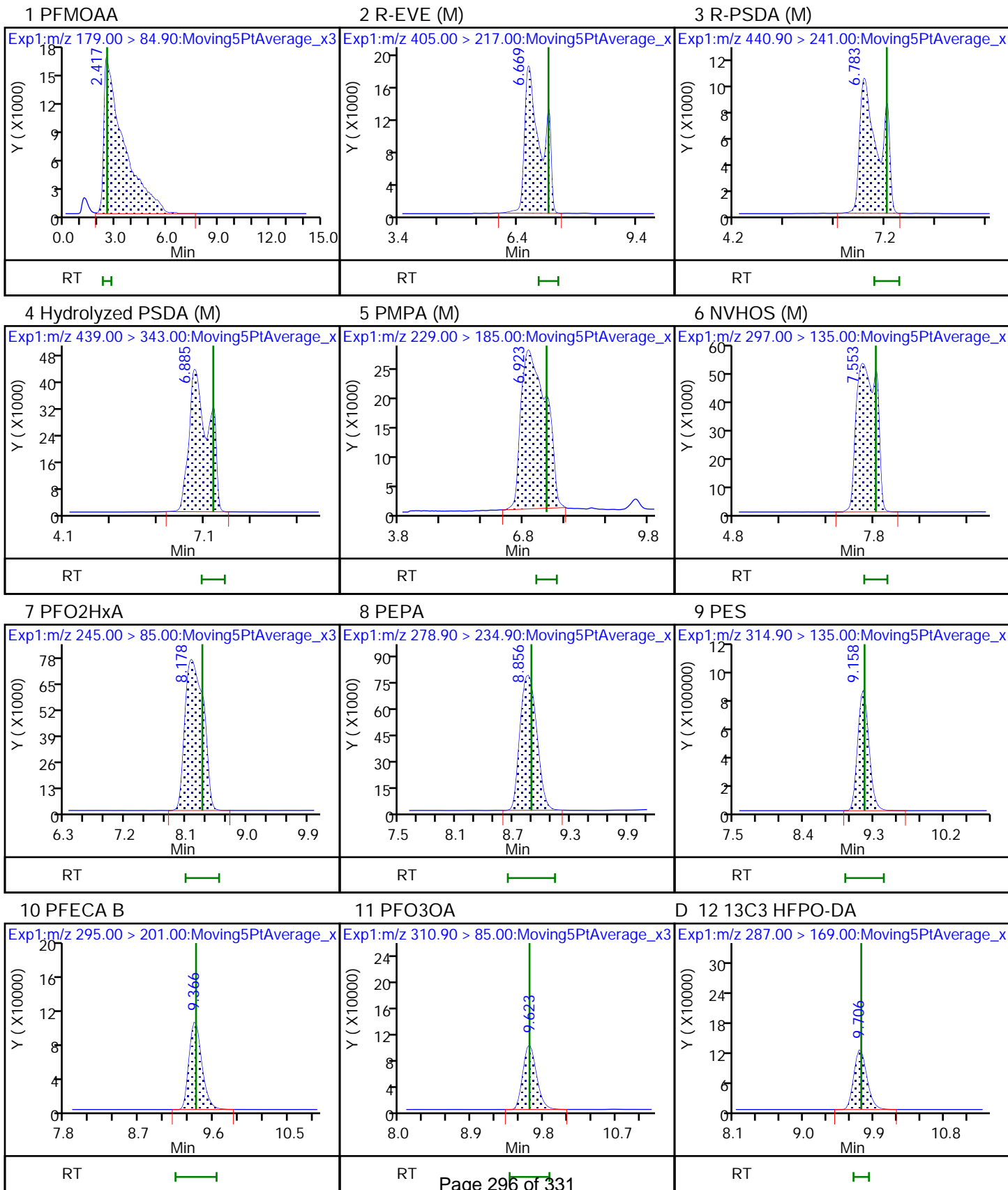
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid										
427.00 > 282.90	10.115	10.140	-0.025		6074939	0.1059		106	97899	
17 Hydro-PS Acid										
463.00 > 262.90	10.165	10.165	0.0		3739281	0.1047		105	94828	
19 PFECA G										
378.90 > 184.90	10.239	10.264	-0.025		2274312	0.0899		89.9	74031	
20 PFO4DA										
376.90 > 85.00	10.388	10.413	-0.025		1342138	0.0997		99.7	12132	
22 EVE Acid										
407.00 > 262.90	10.462	10.462	0.0		5663308	0.1031		103	114004	
21 PS Acid										
443.00 > 146.90	10.462	10.462	0.0		1640532	0.0993		99.3	41532	
23 TAF										
442.90 > 85.00	10.948	10.950	-0.002		359646	0.1004		100	1271	

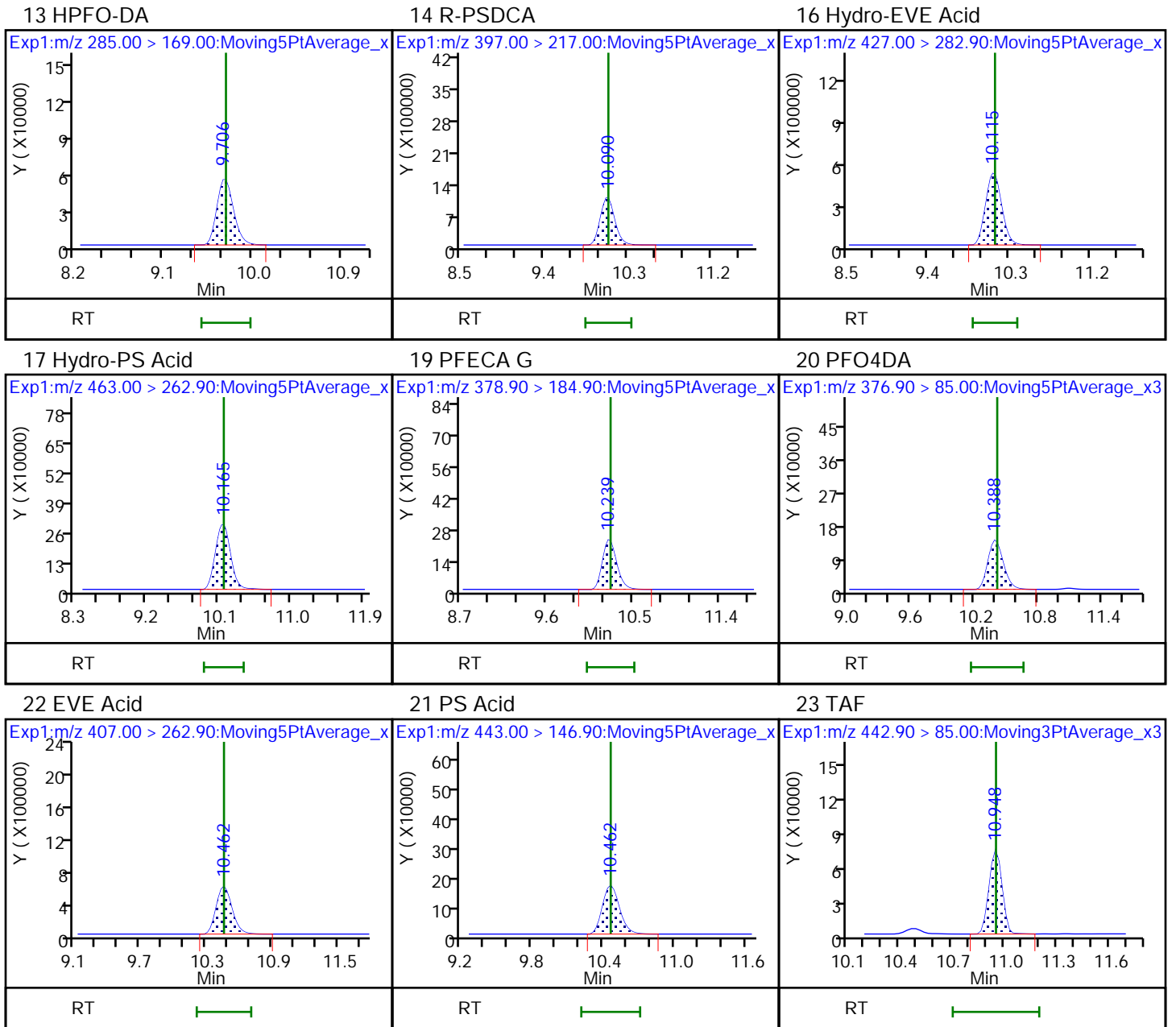
**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated





Eurofins TestAmerica, Sacramento

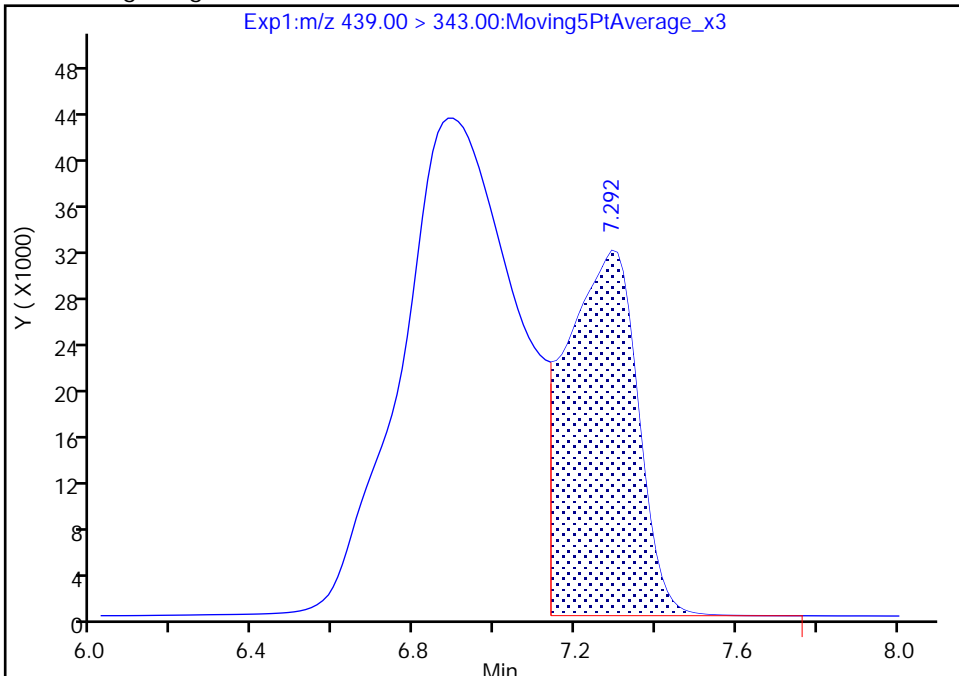
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_045.d  
 Injection Date: 10-Jan-2021 07:37:46 Instrument ID: A7\_N  
 Lims ID: LCS 320-449645/2-A  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 45 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

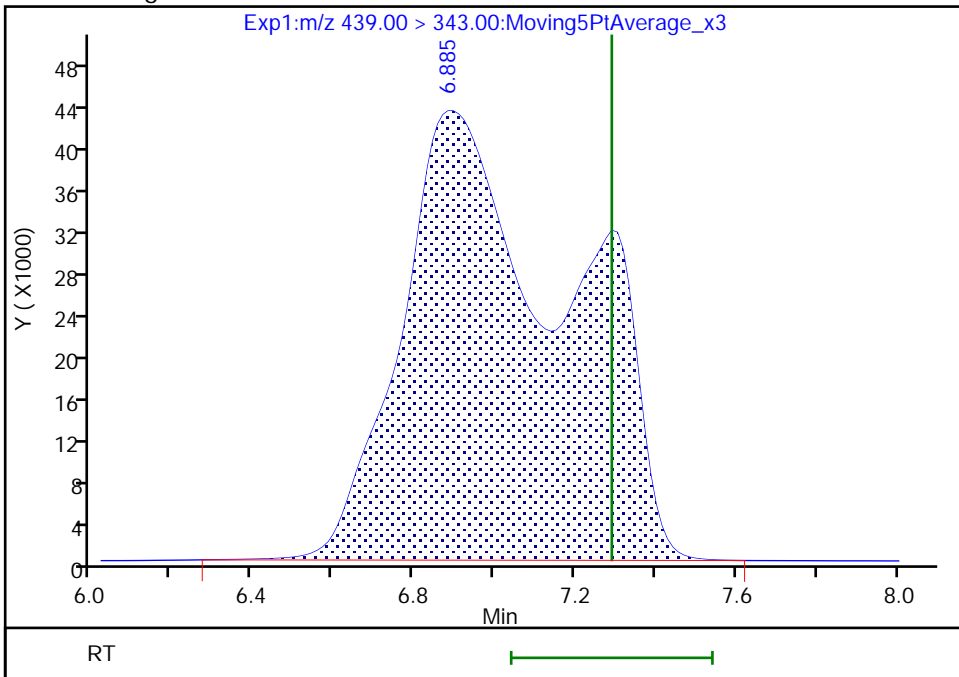
RT: 7.29  
 Area: 388163  
 Amount: 0.034094  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
 Area: 1247471  
 Amount: 0.109572  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

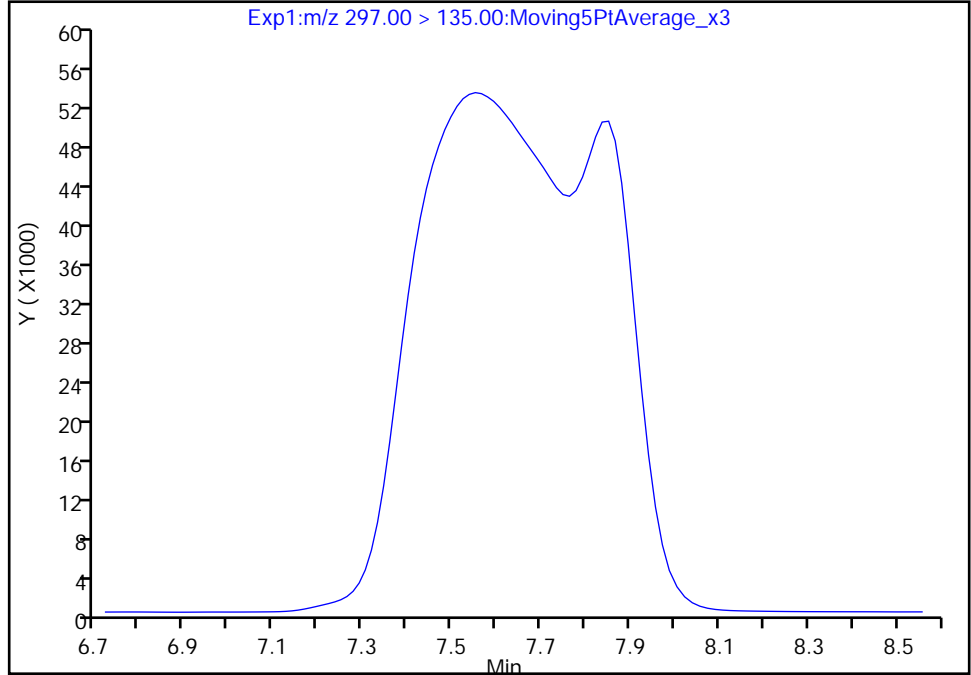
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Injection Date: 10-Jan-2021 07:37:46 Instrument ID: A7\_N  
Lims ID: LCS 320-449645/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 45 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

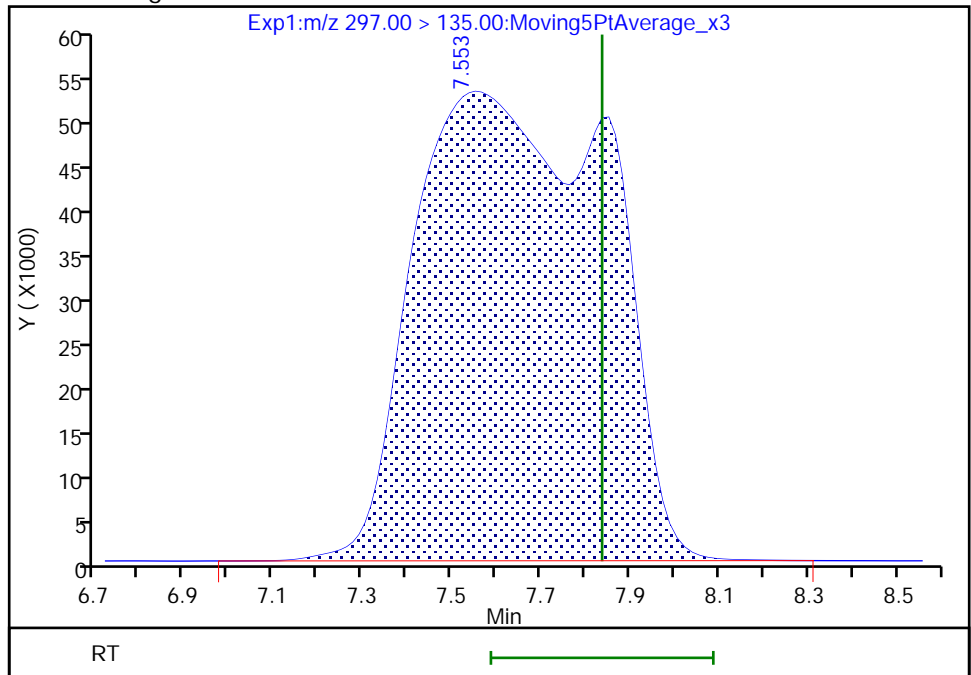
Not Detected  
Expected RT: 7.84

Processing Integration Results



Manual Integration Results

RT: 7.55  
Area: 1613393  
Amount: 0.100783  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

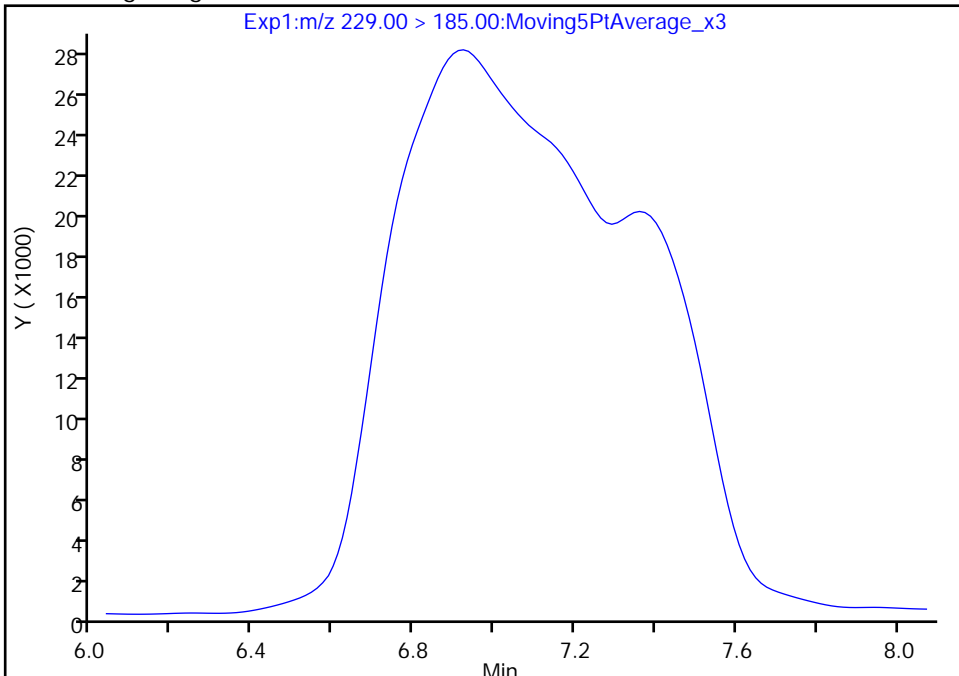
Data File:	\\chromfs\Sacramento\ChromData\A7_N\20210109-110985.b\2021.01.09_TB3_A7_B_045.d		
Injection Date:	10-Jan-2021 07:37:46	Instrument ID:	A7_N
Lims ID:	LCS 320-449645/2-A		
Client ID:			
Operator ID:	abservice	ALS Bottle#:	45
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector:	EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

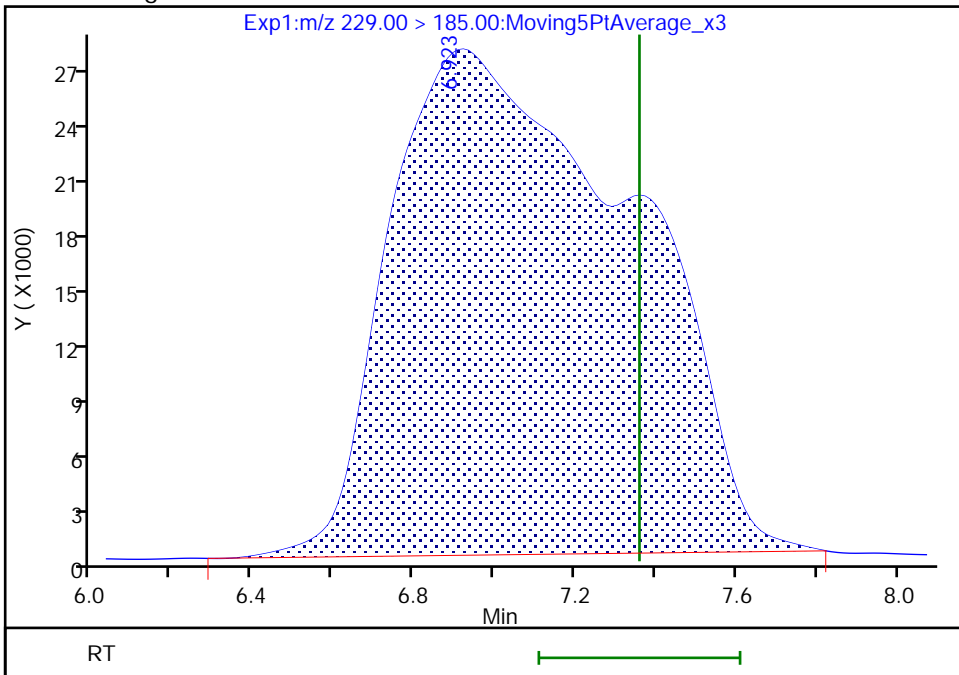
Not Detected  
Expected RT: 7.36

Processing Integration Results



Manual Integration Results

RT: 6.92  
 Area: 1132386  
 Amount: 0.098559  
 Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jan-2021 07:59:35  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 300 of 331



Eurofins TestAmerica, Sacramento

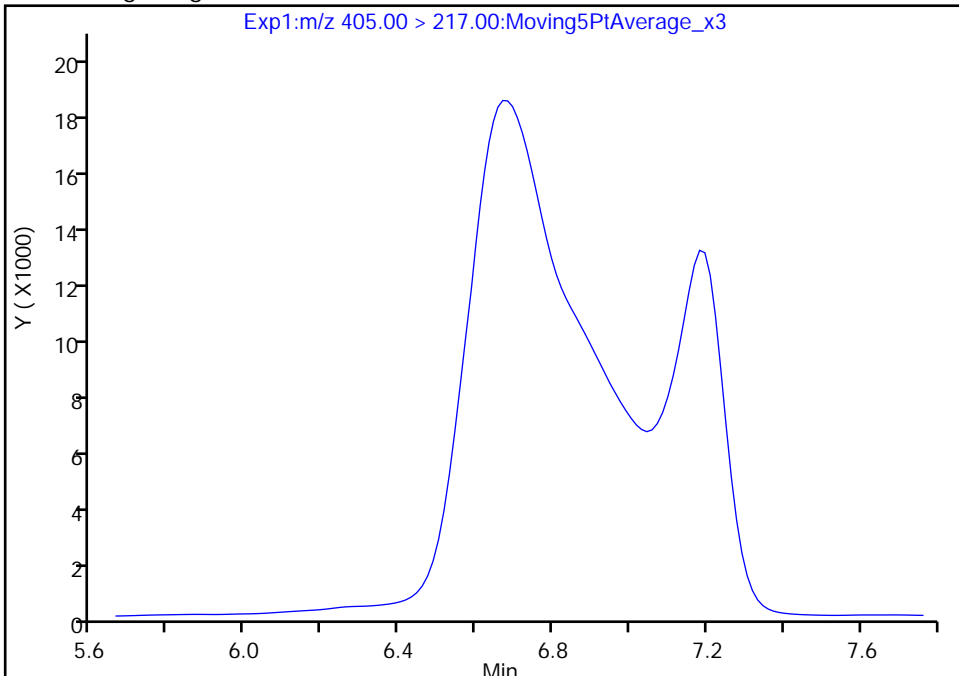
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_045.d  
Injection Date: 10-Jan-2021 07:37:46 Instrument ID: A7\_N  
Lims ID: LCS 320-449645/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 45 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

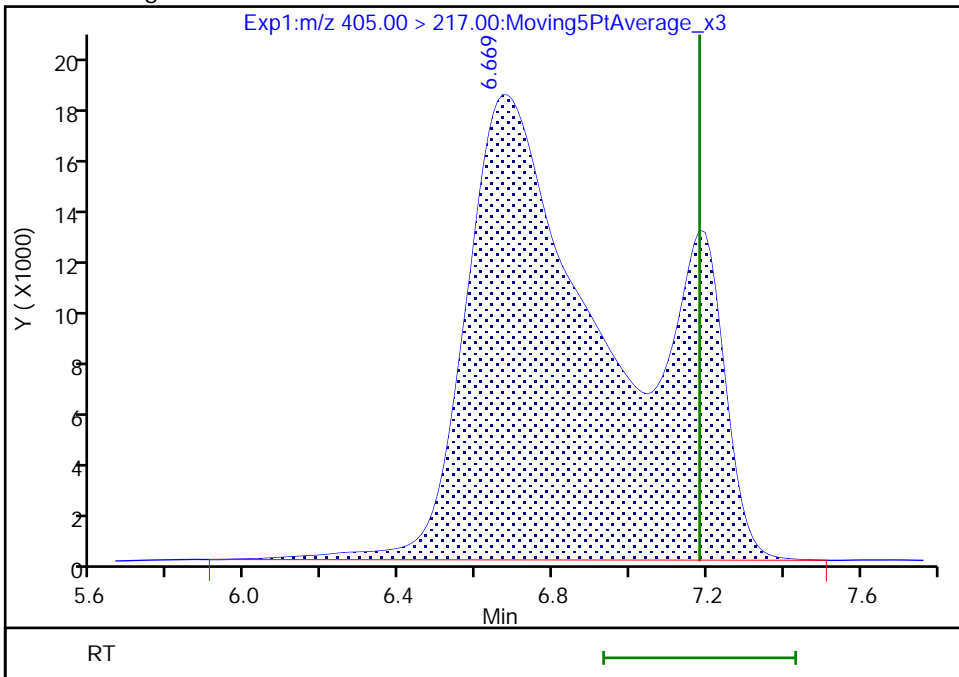
Not Detected  
Expected RT: 7.18

Processing Integration Results



Manual Integration Results

RT: 6.67  
Area: 514742  
Amount: 0.102438  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jan-2021 07:59:19  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

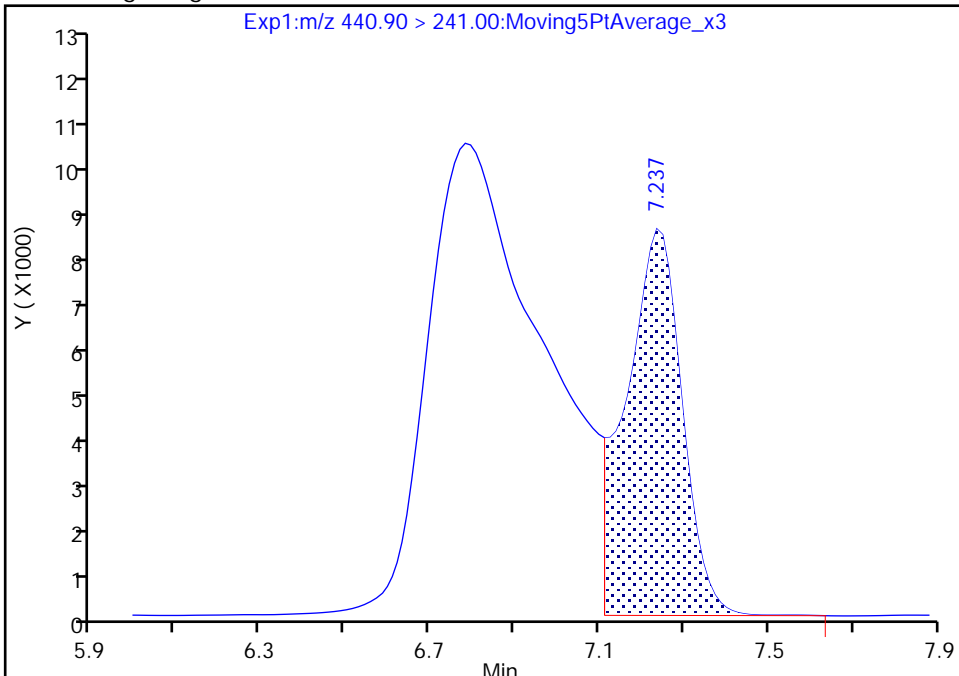
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Injection Date: 10-Jan-2021 07:37:46 Instrument ID: A7\_N  
Lims ID: LCS 320-449645/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 45 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

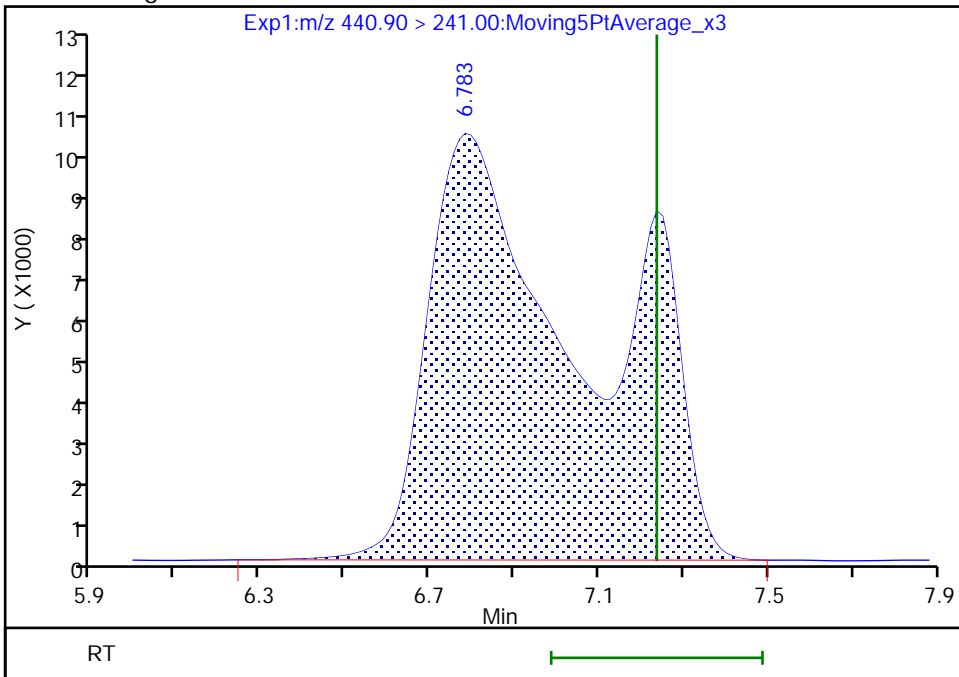
RT: 7.24  
Area: 77207  
Amount: 0.030235  
Amount Units: ng/ml

Processing Integration Results



RT: 6.78  
Area: 272231  
Amount: 0.106607  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:59:26  
Audit Action: Manually Integrated

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-449645/3-A  
 Matrix: Water Lab File ID: 2021.01.09\_TB3\_A7\_B\_046.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/08/2021 08:21  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/10/2021 07:55  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 450034 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.190		0.0020	
13252-13-6	HFPO-DA	0.201		0.0020	
773804-62-9	Hydro-EVE Acid	0.197		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.165		0.0020	
749836-20-2	Hydro-PS Acid	0.196		0.0020	
1132933-86-8	NVHOS	0.174		0.0020	
267239-61-2	PEPA	0.182		0.010	
113507-82-7	PES	0.181		0.0020	
151772-58-6	PFECA B	0.187		0.0020	
801212-59-9	PFECA G	0.175		0.0020	
674-13-5	PFMOAA	0.171		0.0020	
39492-88-1	PFO2HxA	0.183		0.0020	
39492-89-2	PFO3OA	0.191		0.0020	
39492-90-5	PFO4DA	0.167		0.0020	
39492-91-6	PFO5DA	0.195		0.0020	
13140-29-9	PMPA	0.166		0.020	
29311-67-9	PS Acid	0.187		0.0020	
2416366-22-6	R-EVE	0.164		0.0020	
2416366-18-0	R-PSDA	0.164		0.0020	
2416366-21-5	R-PSDCA	0.198		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	103		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_046.d  
 Lims ID: LCSD 320-449645/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 10-Jan-2021 07:55:20 ALS Bottle#: 46 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-449645/3-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 08:00:19 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 08:00:19  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.452	2.452	0.0	1057699	0.0856		85.6	121	
2 R-EVE	405.00 > 217.00	7.181	7.182	-0.001	412702	0.0821		82.1	4566	M
3 R-PSDA	440.90 > 241.00	7.236	7.237	-0.001	209273	0.0820		82.0	2812	M
4 Hydrolyzed PSDA	439.00 > 343.00	7.291	7.291	0.0	942017	0.0827		82.7	10258	
5 PMPA	229.00 > 185.00	7.360	7.360	0.0	955993	0.0832		83.2	440	
6 NVHOS	297.00 > 135.00	7.838	7.838	0.0	1389941	0.0868		86.8	6118	
7 PFO2HxA	245.00 > 85.00	8.327	8.342	-0.015	1333141	0.0914		91.4	8182	
8 PEPA	278.90 > 234.90	8.890	8.890	0.0	862875	0.0908		90.8	3926	
9 PES	314.90 > 135.00	9.177	9.177	0.0	7960164	0.0907		90.7	111544	
10 PFECA B	295.00 > 201.00	9.389	9.389	0.0	1000339	0.0937		93.7	26862	
11 PFO3OA	310.90 > 85.00	9.623	9.623	0.0	1164484	0.0956		95.6	15189	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.734	9.734	0.0	1270414	0.2577		103	33530	
13 HPFO-DA	285.00 > 169.00	9.734	9.734	0.0	580221	0.1004	1.000	100	15433	
14 R-PSDCA	397.00 > 217.00	10.090	10.090	0.0	10613809	0.0992		99.2	158798	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid	427.00 > 282.90	10.115	10.140	-0.025	5650093	0.0985		98.5	111258	
17 Hydro-PS Acid	463.00 > 262.90	10.164	10.165	-0.001	3492517	0.0978		97.8	86387	
19 PFECA G	378.90 > 184.90	10.264	10.264	0.0	2211154	0.0874		87.4	69376	
20 PFO4DA	376.90 > 85.00	10.388	10.413	-0.025	1124718	0.0835		83.5	10739	
22 EVE Acid	407.00 > 262.90	10.462	10.462	0.0	5228777	0.0952		95.2	128788	
21 PS Acid	443.00 > 146.90	10.462	10.462	0.0	1547483	0.0936		93.6	38335	
23 TAF	442.90 > 85.00	10.948	10.950	-0.002	349985	0.0977		97.7	1226	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_046.d

Injection Date: 10-Jan-2021 07:55:20

Instrument ID: A7\_N

Lims ID: LCSD 320-449645/3-A

Client ID:

Operator ID: abservice

ALS Bottle#: 46

Worklist Smp#: 11

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

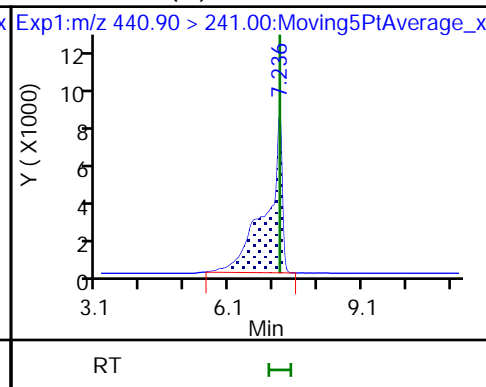
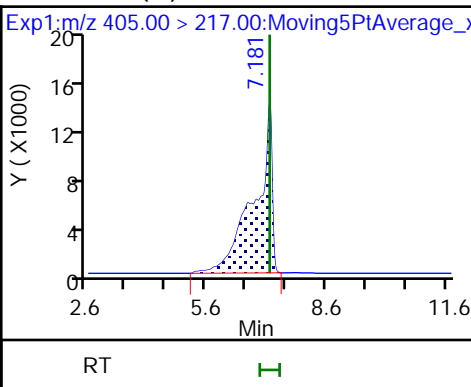
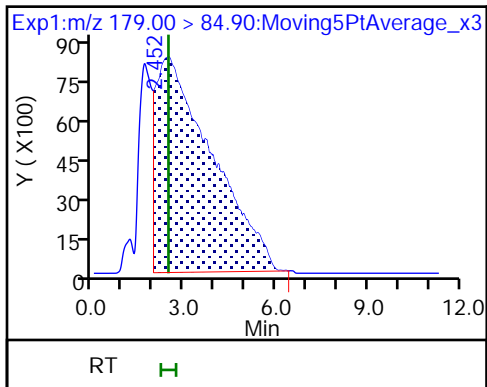
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA

2 R-EVE (M)

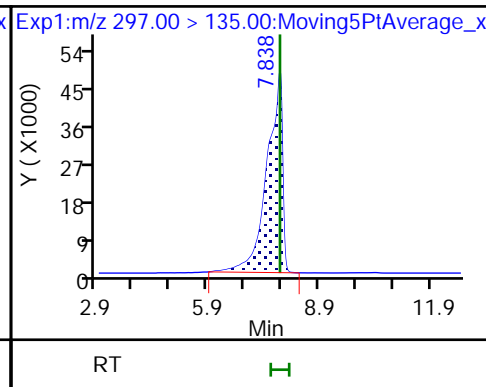
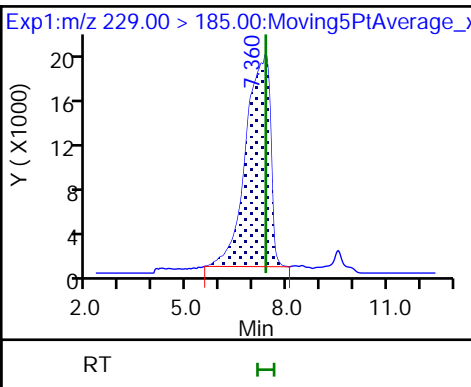
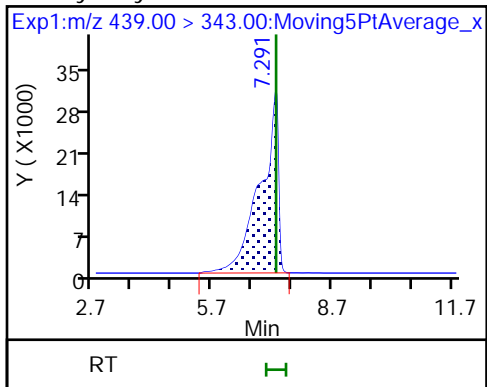
3 R-PSDA (M)



4 Hydrolyzed PSDA

5 PMPA

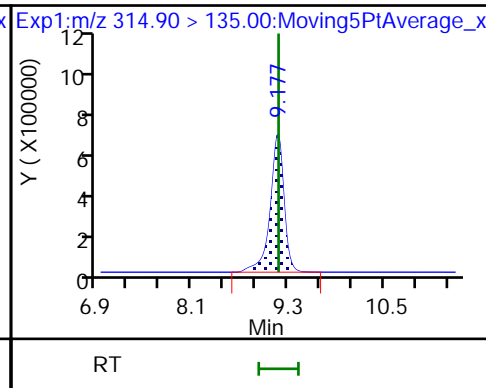
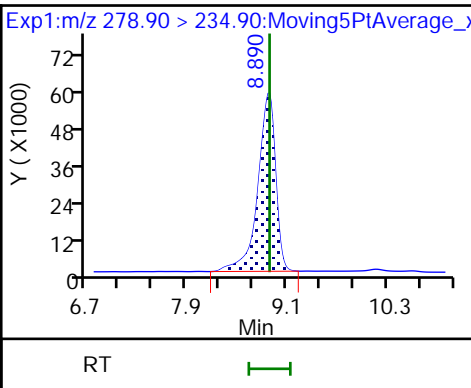
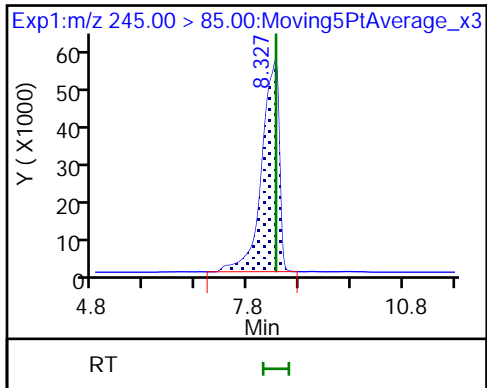
6 NVHOS



7 PFO2HxA

8 PEPA

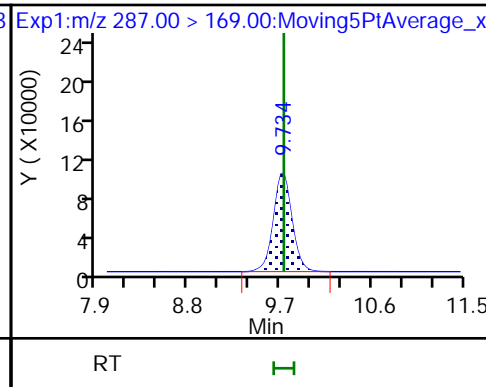
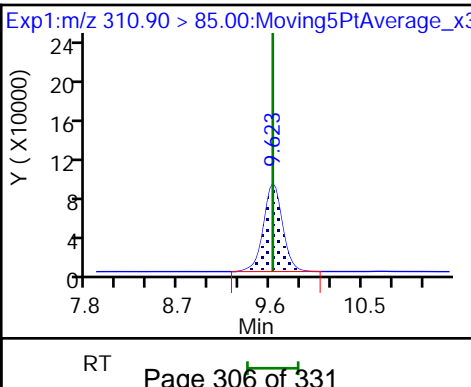
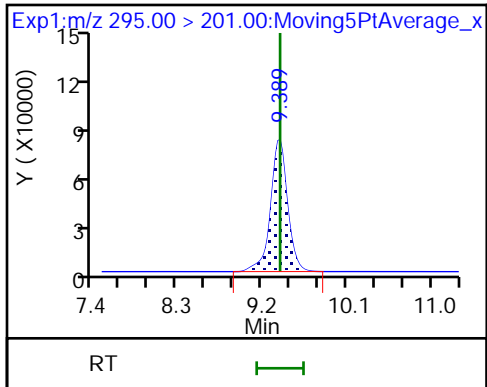
9 PES

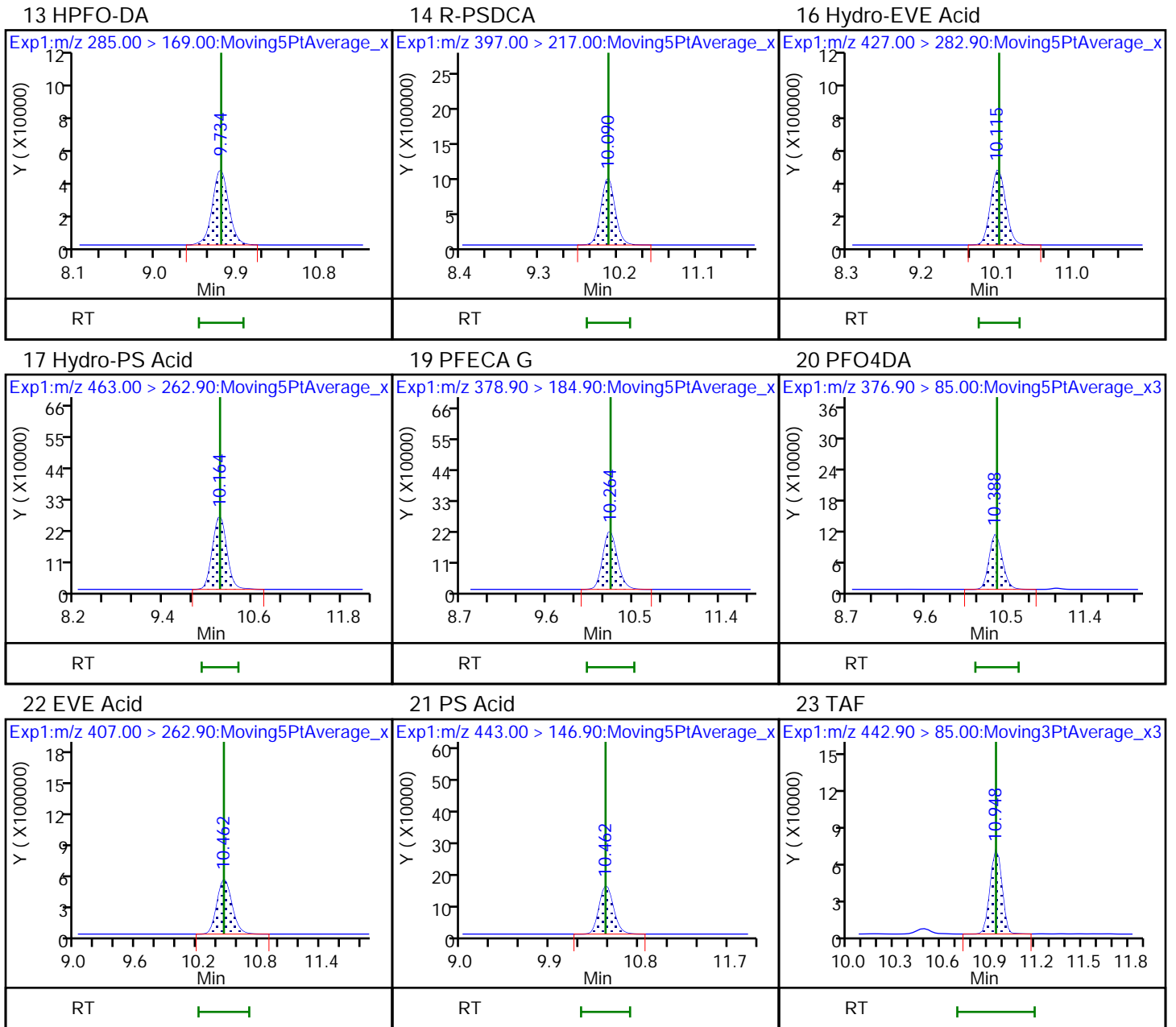


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA





Eurofins TestAmerica, Sacramento

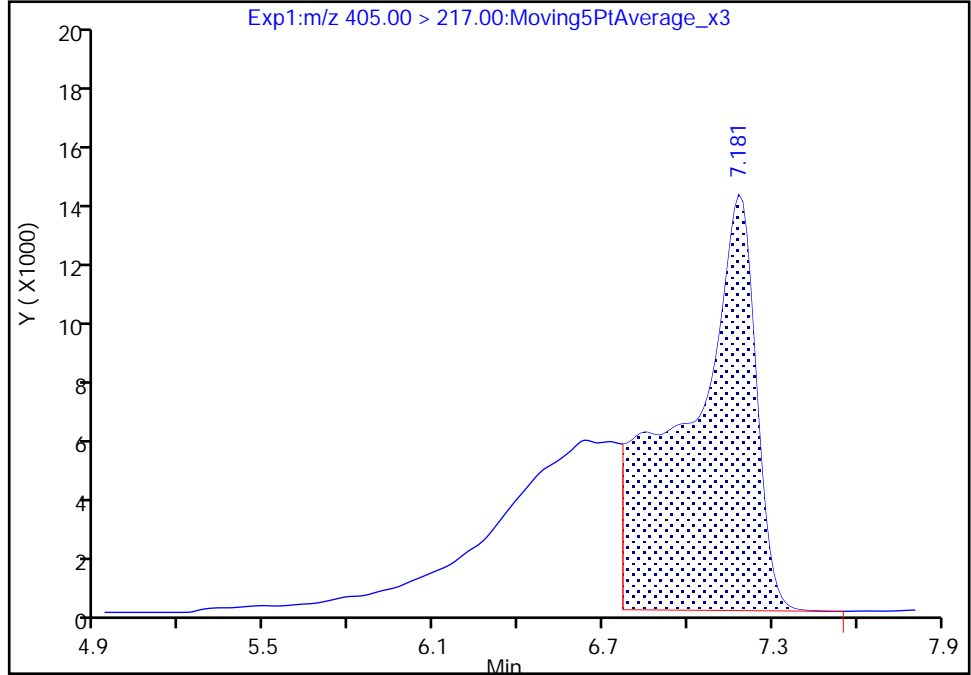
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_046.d  
Injection Date: 10-Jan-2021 07:55:20 Instrument ID: A7\_N  
Lims ID: LCSD 320-449645/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 46 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

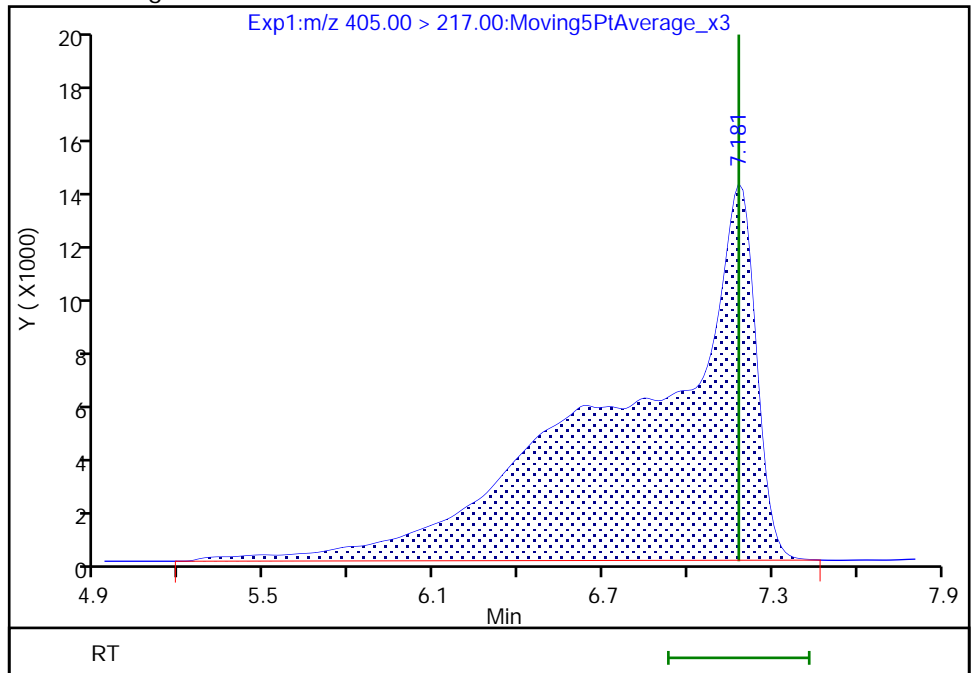
RT: 7.18  
Area: 234446  
Amount: 0.046657  
Amount Units: ng/ml

Processing Integration Results



RT: 7.18  
Area: 412702  
Amount: 0.082131  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 08:00:05

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

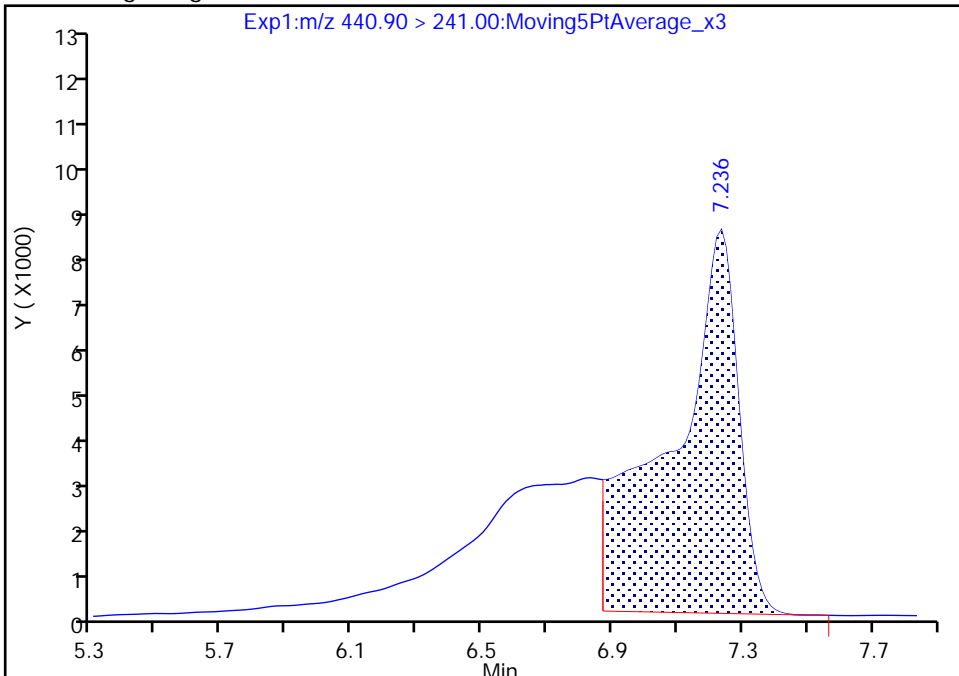
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Injection Date: 10-Jan-2021 07:55:20 Instrument ID: A7\_N  
Lims ID: LCSD 320-449645/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 46 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

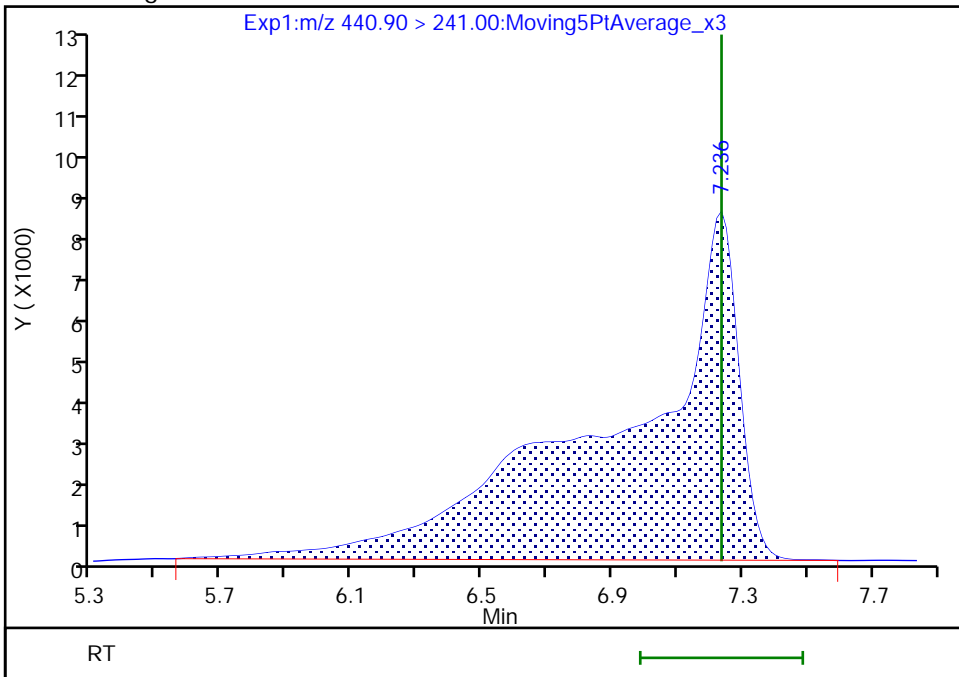
RT: 7.24  
Area: 120708  
Amount: 0.047270  
Amount Units: ng/ml

Processing Integration Results



RT: 7.24  
Area: 209273  
Amount: 0.081952  
Amount Units: ng/ml

Manual Integration Results



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Client Sample ID: SEEP-C-EFFLUENT-24-123120 MS      Lab Sample ID: 320-68542-2 MS

Matrix: Water      Lab File ID: 2021.01.09\_TB3\_A7\_B\_044.d

Analysis Method: Chemours (TB3+)      Date Collected: 12/31/2020 13:00

Extraction Method: PFAS Prep      Date Extracted: 01/08/2021 08:21

Sample wt/vol: 0.025(mL)      Date Analyzed: 01/10/2021 07:20

Con. Extract Vol.: 5.0(mL)      Dilution Factor: 1

Injection Volume: 500(uL)      GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: \_\_\_\_\_      GPC Cleanup: (Y/N) N

Analysis Batch No.: 450034      Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL
69087-46-3	EVE Acid	19.6		0.017
13252-13-6	HFPO-DA	20.0		0.081
773804-62-9	Hydro-EVE Acid	20.3		0.014
2416366-19-1	Hydrolyzed PSDA	21.5		0.038
749836-20-2	Hydro-PS Acid	21.4		0.0061
1132933-86-8	NVHOS	20.0		0.015
267239-61-2	PEPA	19.8		0.016
113507-82-7	PES	19.6		0.0067
151772-58-6	PFECA B	20.3		0.027
801212-59-9	PFECA G	18.3		0.048
674-13-5	PFMOAA	21.6		0.080
39492-88-1	PFO2HxA	19.6		0.027
39492-89-2	PFO3OA	19.8		0.039
39492-90-5	PFO4DA	15.8		0.059
39492-91-6	PFO5DA	16.9		0.078
13140-29-9	PMPA	19.6		0.62
29311-67-9	PS Acid	19.7		0.020
2416366-22-6	R-EVE	20.6		0.072
2416366-18-0	R-PSDA	21.7		0.071
2416366-21-5	R-PSDCA	22.7		0.017

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_044.d  
 Lims ID: 320-68542-A-2-C MS  
 Client ID: SEEP-C-EFFLUENT-24-123120  
 Sample Type: MS  
 Inject. Date: 10-Jan-2021 07:20:13 ALS Bottle#: 44 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-2-c ms  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:59:04 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld

Date: 11-Jan-2021 07:59:04

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.136	2.452	-0.316		1334701	0.1080		108	992	M
2 R-EVE										M
405.00 > 217.00	7.185	7.182	0.002		518812	0.1032		103	3266	M
3 R-PSDA										M
440.90 > 241.00	7.239	7.237	0.002		276588	0.1083		108	2764	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.294	7.291	0.003		1221852	0.1073		107	10319	M
5 PMPA										M
229.00 > 185.00	6.965	7.360	-0.395		1123904	0.0978		97.8	592	M
6 NVHOS										
297.00 > 135.00	7.841	7.838	0.003		1601619	0.1000		100	9694	
7 PFO2HxA										
245.00 > 85.00	8.200	8.342	-0.142		1427310	0.0978		97.8	7814	
8 PEPA										
278.90 > 234.90	8.860	8.890	-0.030		939454	0.0989		98.9	4550	
9 PES										
314.90 > 135.00	9.162	9.177	-0.015		8603825	0.0980		98.0	132536	
10 PFECA B										
295.00 > 201.00	9.371	9.389	-0.018		1084555	0.1016		102	32545	
11 PFO3OA										
310.90 > 85.00	9.630	9.623	0.007		1205486	0.0989		98.9	16665	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.712	9.734	-0.022		1309649	0.2657		106	37320	
13 HPFO-DA										
285.00 > 169.00	9.712	9.734	-0.022	1.000	594369	0.0998		99.8	16861	
14 R-PSDCA										
397.00 > 217.00	10.071	10.090	-0.019		12156227	0.1136		114	188985	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid										
427.00 > 282.90	10.121	10.140	-0.019		5813787	0.1014		101	93094	
17 Hydro-PS Acid										
463.00 > 262.90	10.146	10.165	-0.019		3827024	0.1071		107	97223	
19 PFECA G										
378.90 > 184.90	10.245	10.264	-0.019		2319068	0.0917		91.7	75791	
20 PFO4DA										
376.90 > 85.00	10.393	10.413	-0.020		1062916	0.0789		78.9	10429	
22 EVE Acid										
407.00 > 262.90	10.468	10.462	0.006		5373469	0.0979		97.9	133070	
21 PS Acid										
443.00 > 146.90	10.468	10.462	0.006		1627400	0.0985		98.5	40690	
23 TAF										
442.90 > 85.00	10.953	10.950	0.003		303205	0.0846		84.6	1028	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_044.d

Injection Date: 10-Jan-2021 07:20:13

Instrument ID: A7\_N

Lims ID: 320-68542-A-2-C MS

Client ID: SEEP-C-EFFLUENT-24-123120

Operator ID: abservice

ALS Bottle#: 44

Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

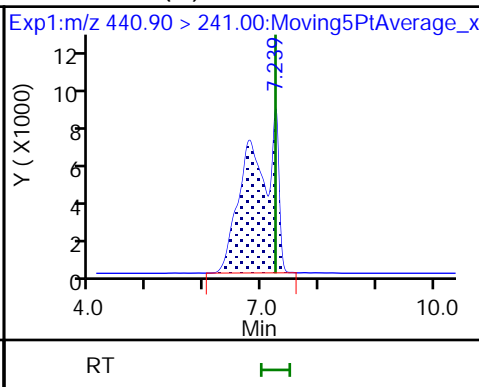
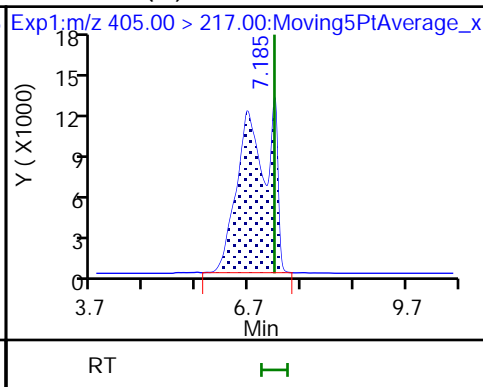
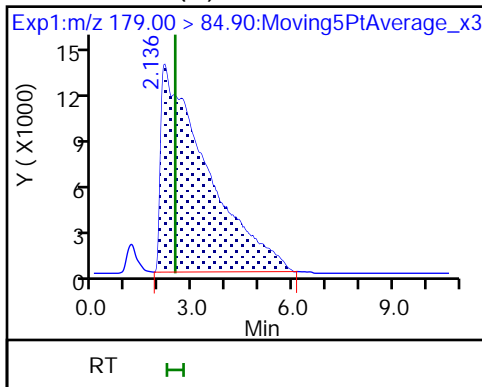
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

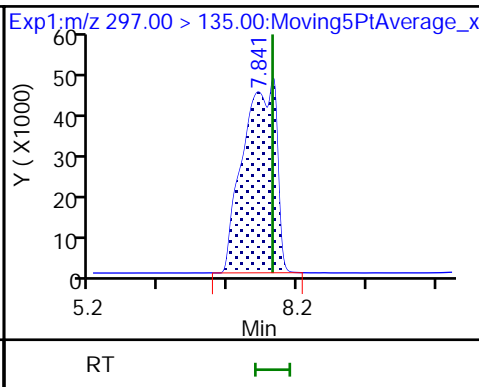
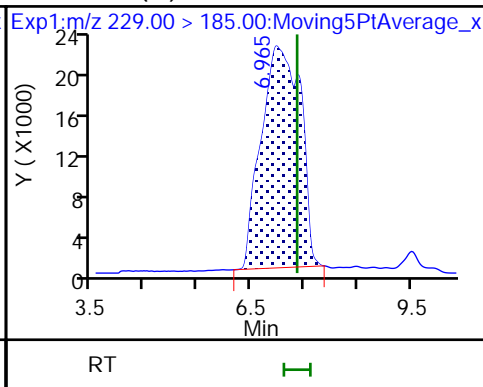
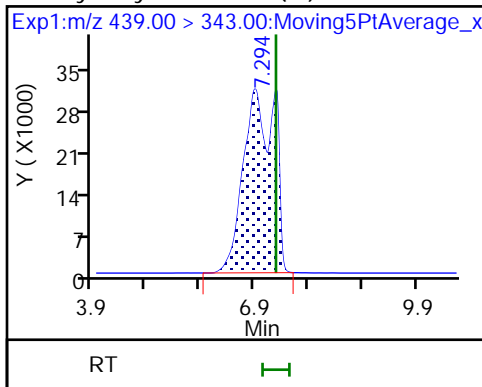
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

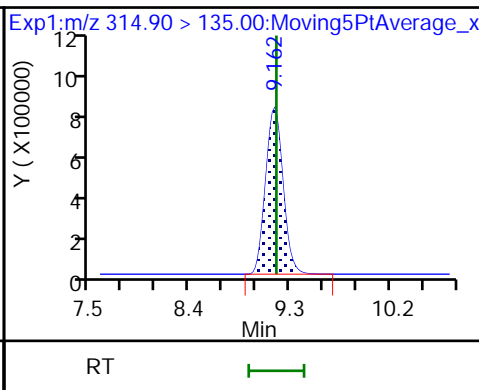
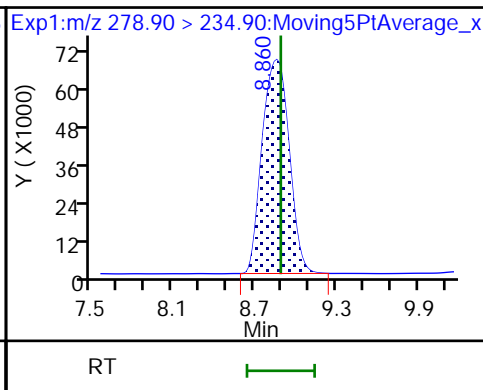
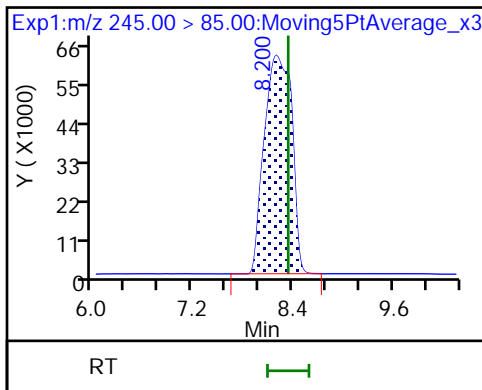
6 NVHOS



7 PFO2HxA

8 PEPA

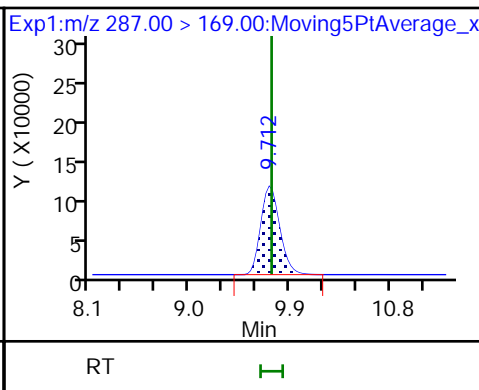
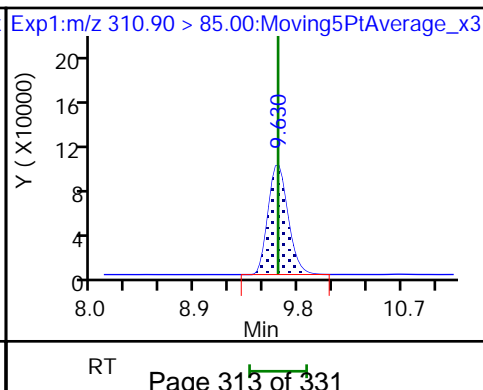
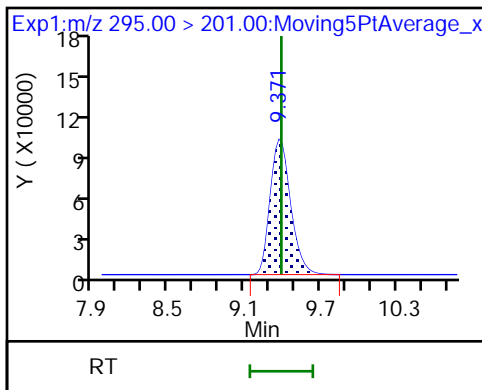
9 PES

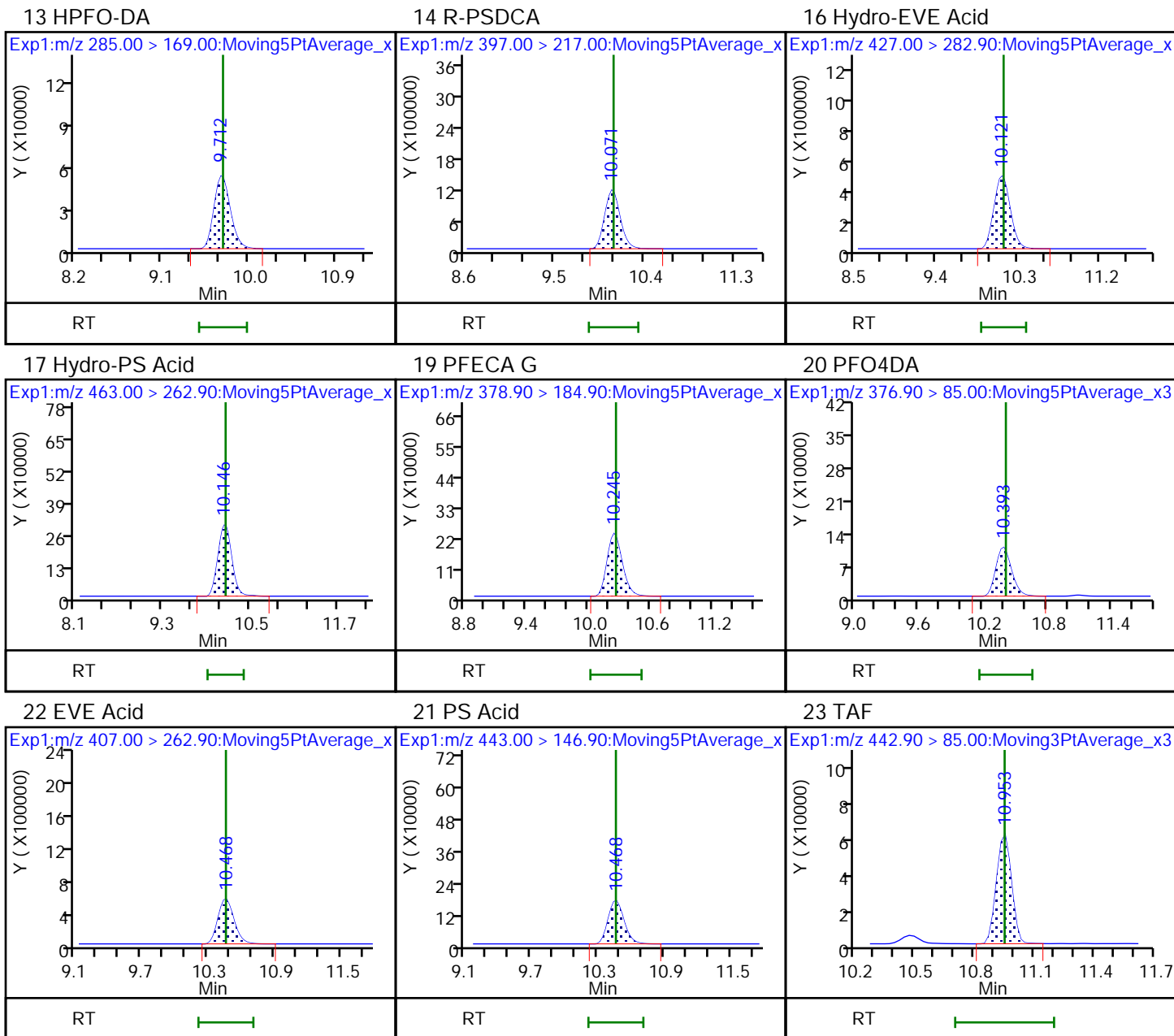


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA





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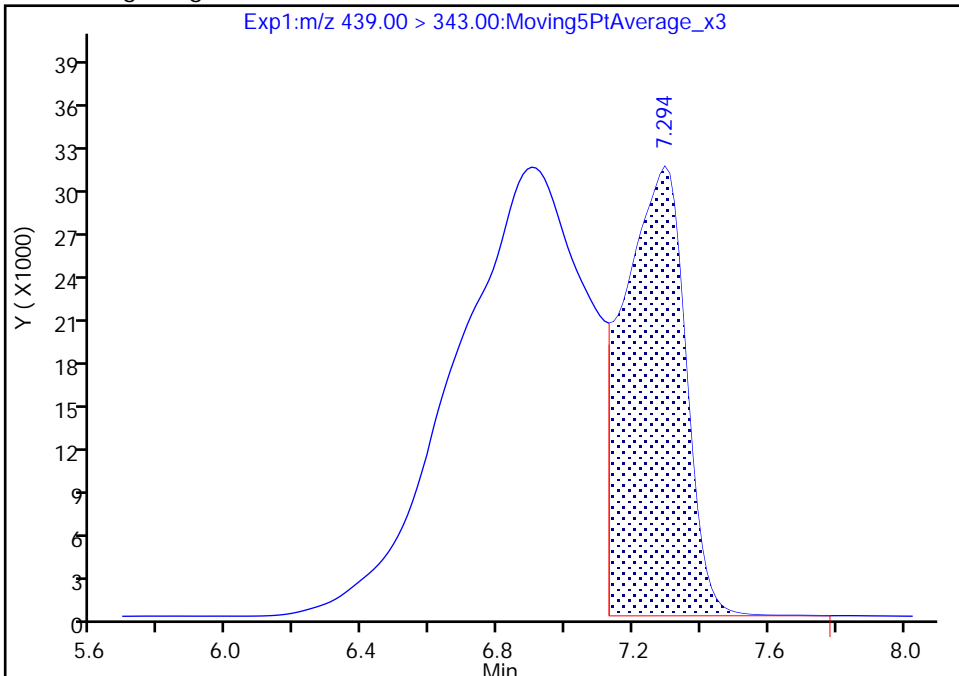
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_044.d  
Injection Date: 10-Jan-2021 07:20:13 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-C MS  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 44 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

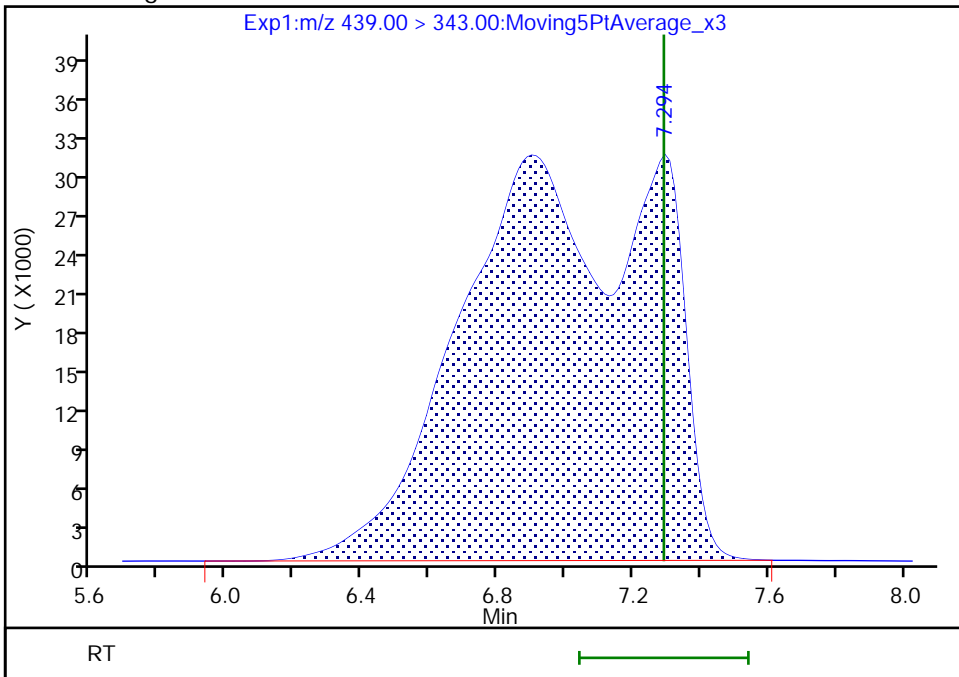
RT: 7.29  
Area: 387710  
Amount: 0.034055  
Amount Units: ng/ml

Processing Integration Results



RT: 7.29  
Area: 1221852  
Amount: 0.107322  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

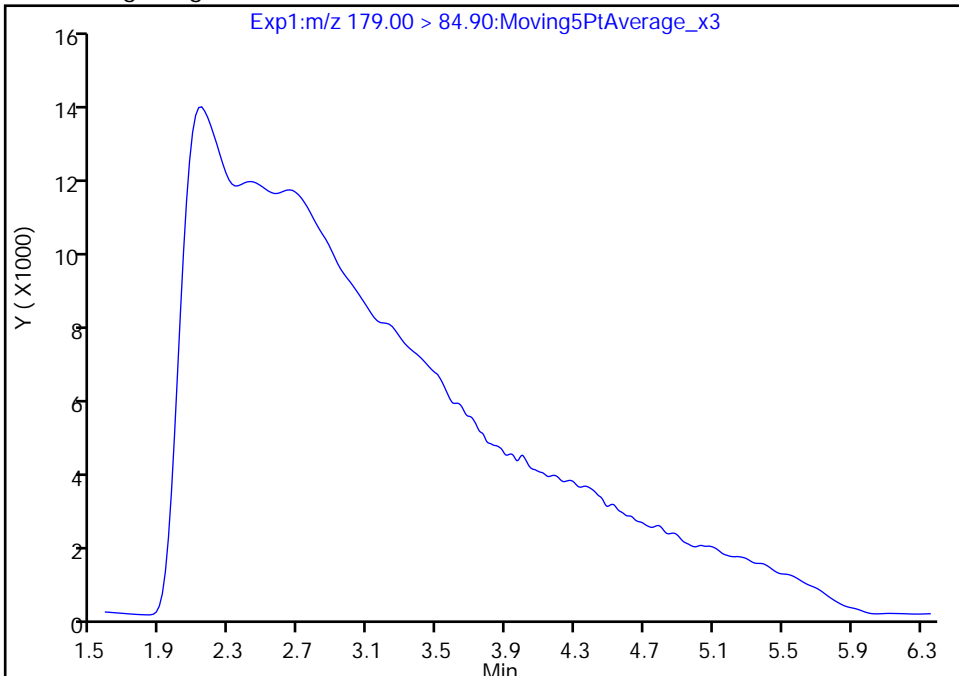
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Injection Date: 10-Jan-2021 07:20:13 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-C MS  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 44 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

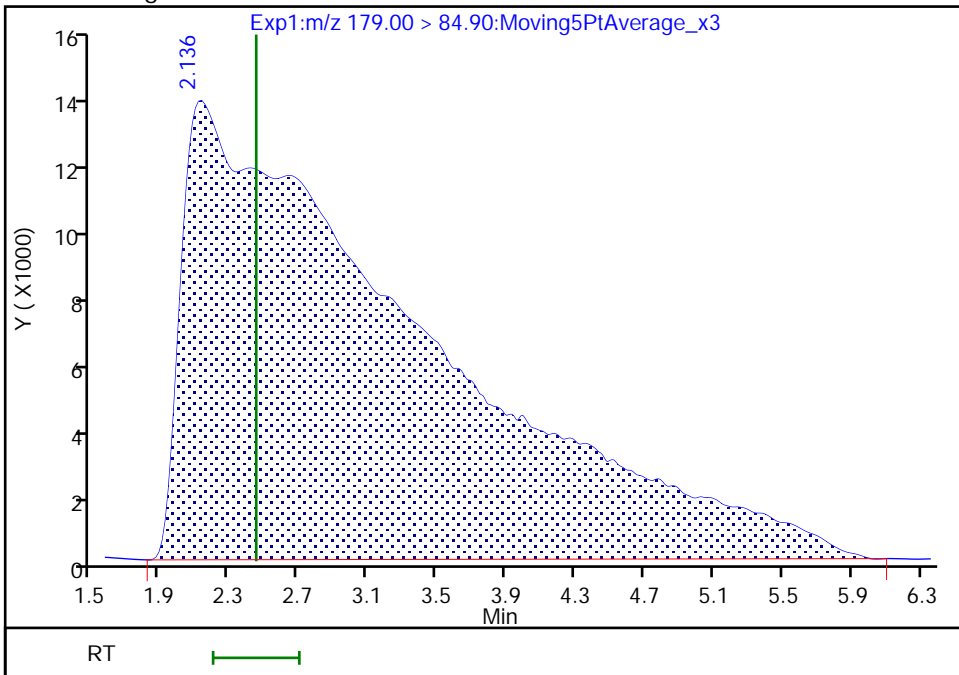
Not Detected  
Expected RT: 2.45

Processing Integration Results



Manual Integration Results

RT: 2.14  
Area: 1334701  
Amount: 0.108016  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jan-2021 07:58:40  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

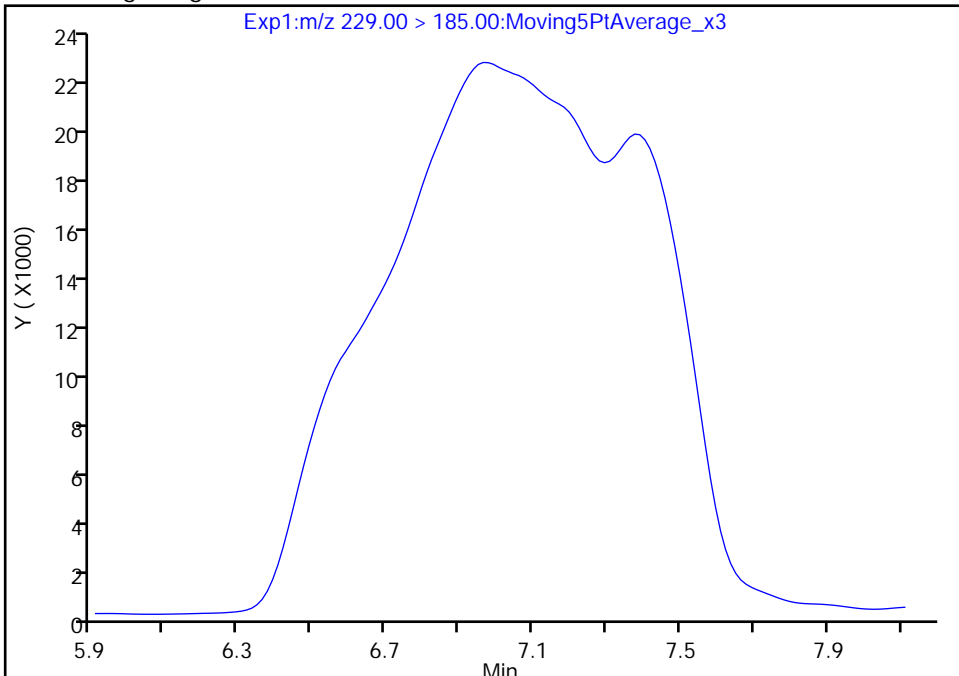
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Injection Date: 10-Jan-2021 07:20:13 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-C MS  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 44 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

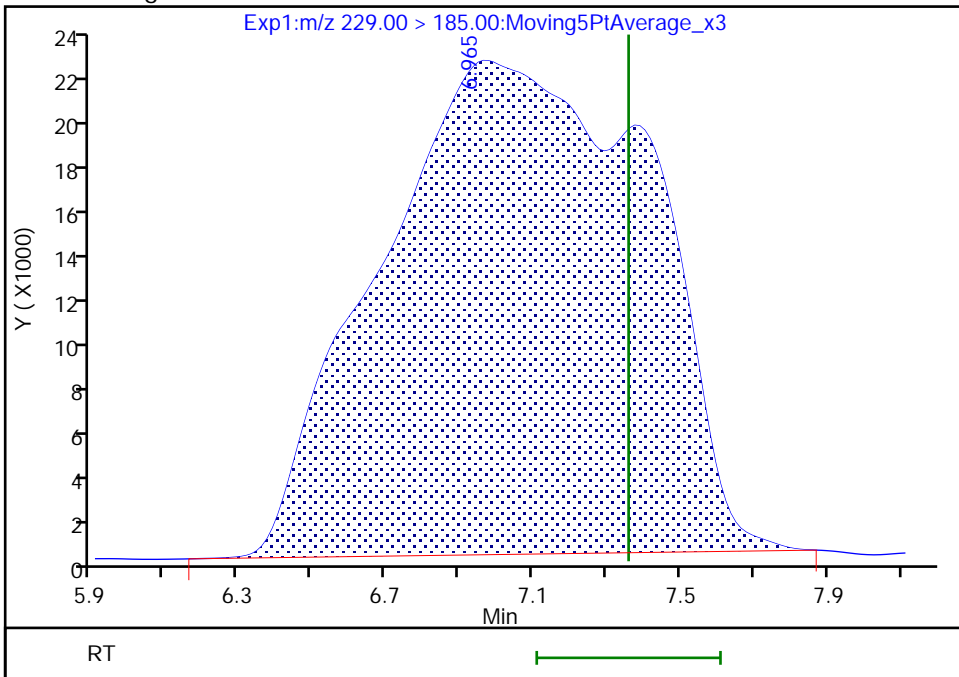
Not Detected  
Expected RT: 7.36

Processing Integration Results



RT: 6.96  
Area: 1123904  
Amount: 0.097820  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

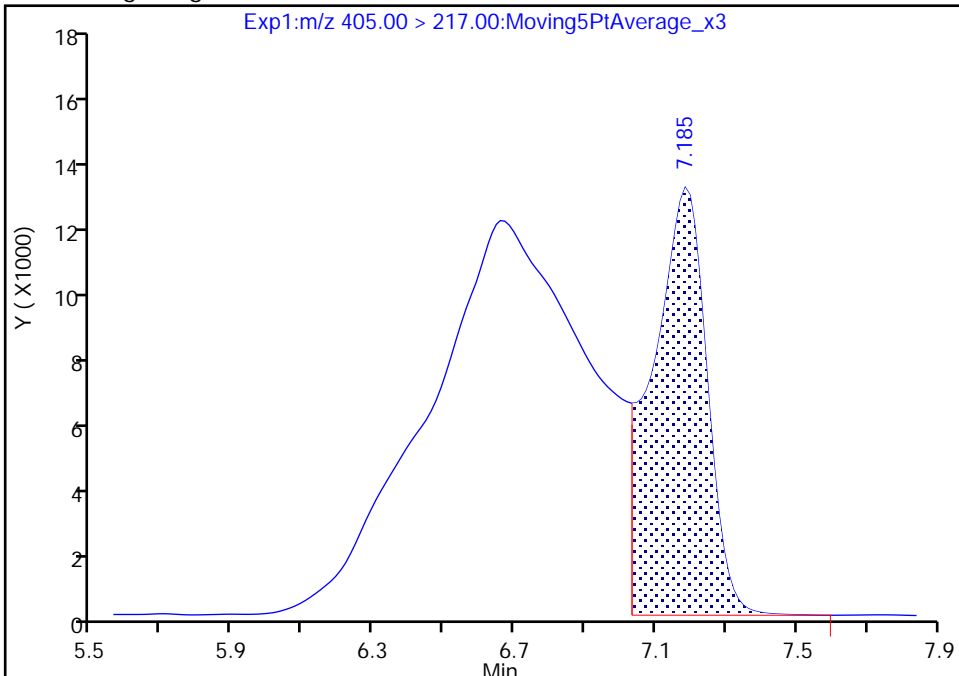
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 Injection Date: 10-Jan-2021 07:20:13 Instrument ID: A7\_N  
 Lims ID: 320-68542-A-2-C MS  
 Client ID: SEEP-C-EFFLUENT-24-123120  
 Operator ID: abservice ALS Bottle#: 44 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

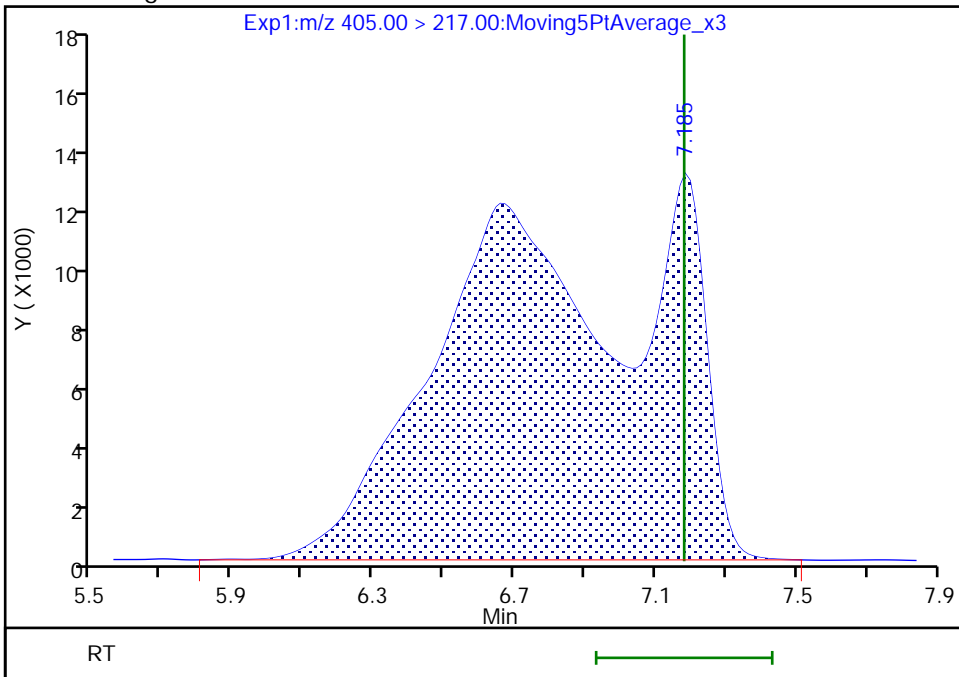
RT: 7.18  
 Area: 138905  
 Amount: 0.027643  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.18  
 Area: 518812  
 Amount: 0.103248  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:58:44  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

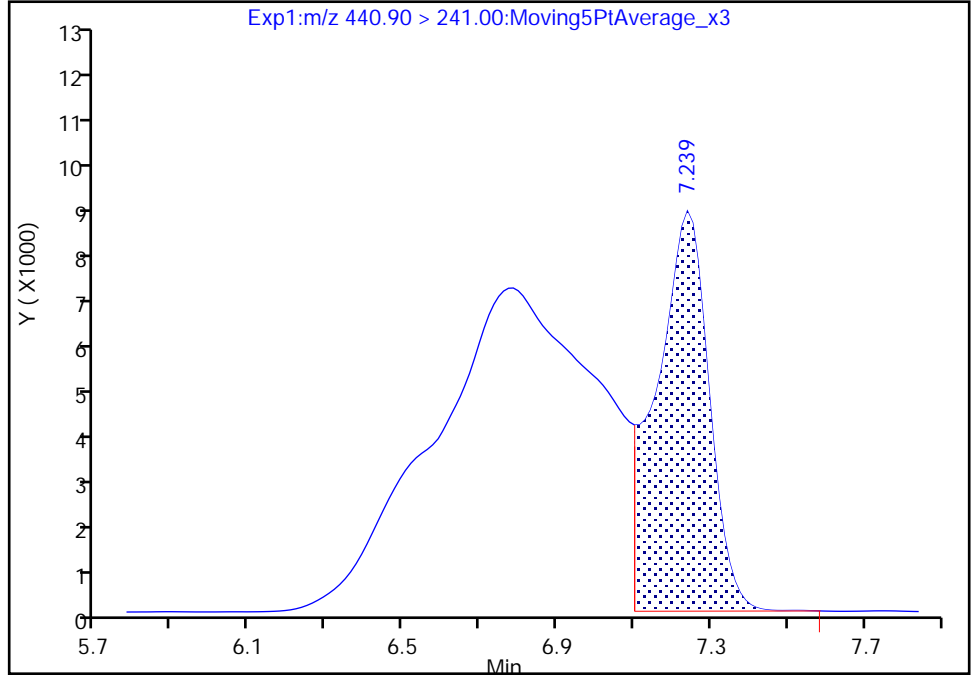
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_044.d  
Injection Date: 10-Jan-2021 07:20:13 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-C MS  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 44 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

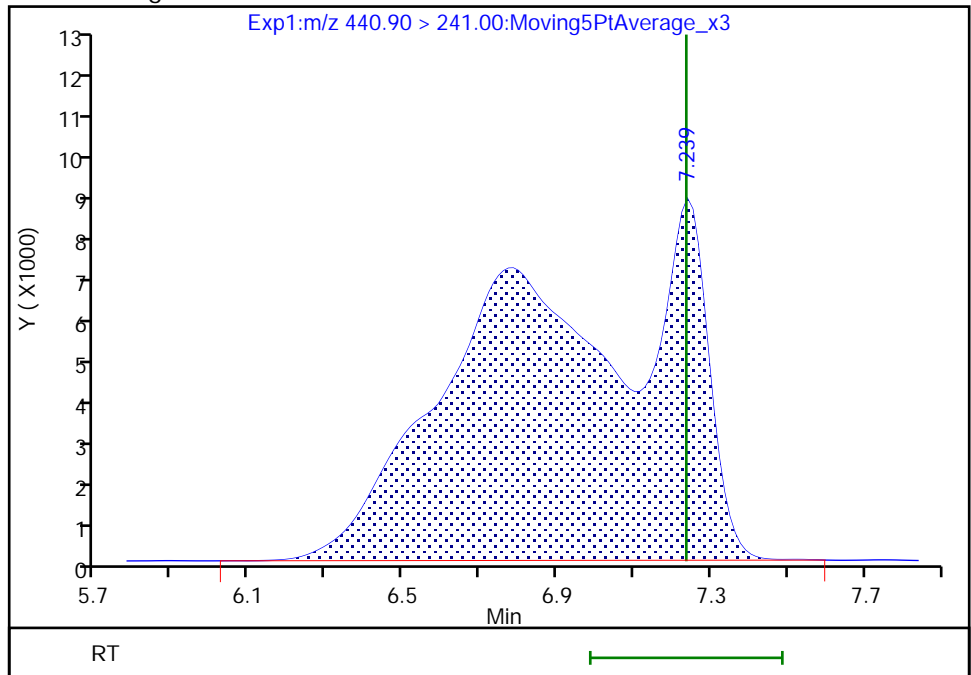
RT: 7.24  
Area: 78369  
Amount: 0.030690  
Amount Units: ng/ml

Processing Integration Results



RT: 7.24  
Area: 276588  
Amount: 0.108313  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:58:47

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_043.d  
 Lims ID: 320-68542-A-2-B DU  
 Client ID: SEEP-C-EFFLUENT-24-123120  
 Sample Type: DU  
 Inject. Date: 10-Jan-2021 07:02:37 ALS Bottle#: 43 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-68542-a-2-b du  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 11-Jan-2021 07:58:28 Calib Date: 15-Dec-2020 23:07:51  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20201216-109593.b\2020.12.15\_TB3\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1650

First Level Reviewer: ruangyotsakuld Date: 11-Jan-2021 07:58:28  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 13C3 HFPO-DA	287.00 > 169.00	9.723	9.734	-0.011	1288804	0.2615		105	35026	
D 15 13C4 PFHpA	367.00 > 322.00	10.129	10.140	-0.011	6048993	0.2661		106	188753	
18 Perfluoroheptanoic acid	363.00 > 319.00	10.129	10.140	-0.011	14791	0.00003124	Target=0.00		276	
	363.00 > 169.00	10.129	10.140	-0.011	8665		1.71(0.00-0.00)		211	
21 PS Acid	443.00 > 146.90	10.452	10.462	-0.010	6260	0.000379			208	M

QC Flag Legend

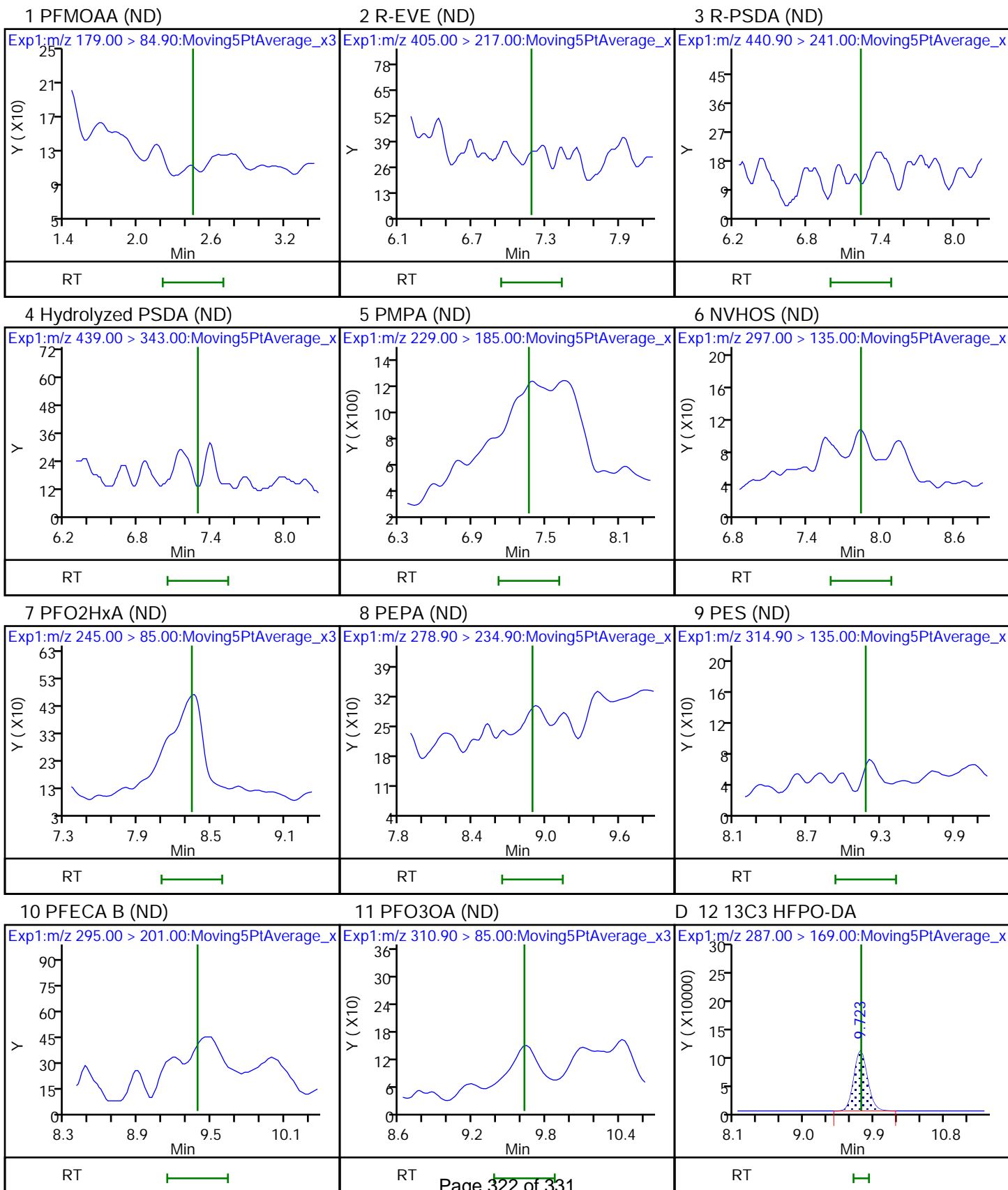
Processing Flags

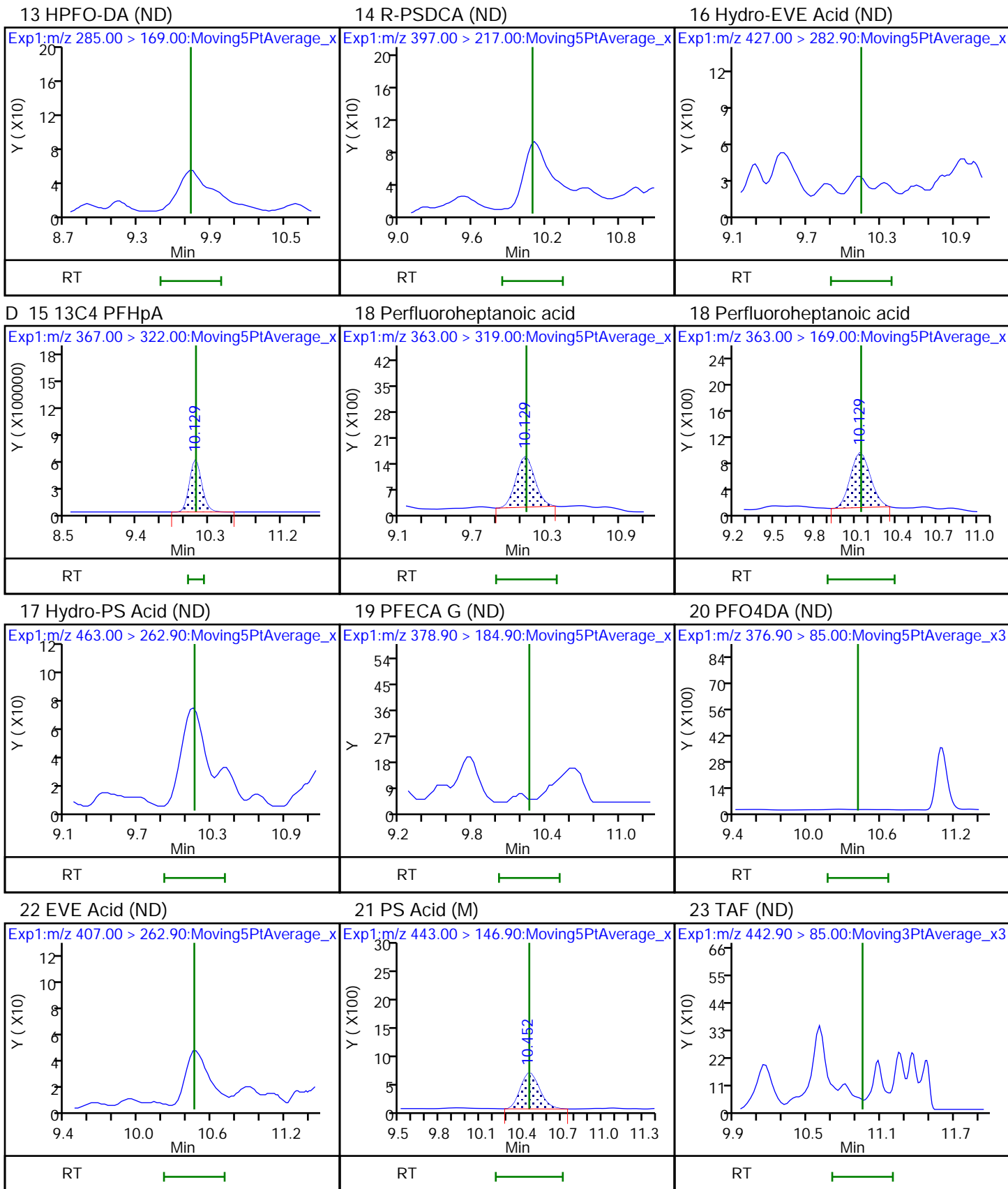
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_043.d  
Injection Date: 10-Jan-2021 07:02:37 Instrument ID: A7\_N  
Lims ID: 320-68542-A-2-B DU  
Client ID: SEEP-C-EFFLUENT-24-123120  
Operator ID: abservice ALS Bottle#: 43 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

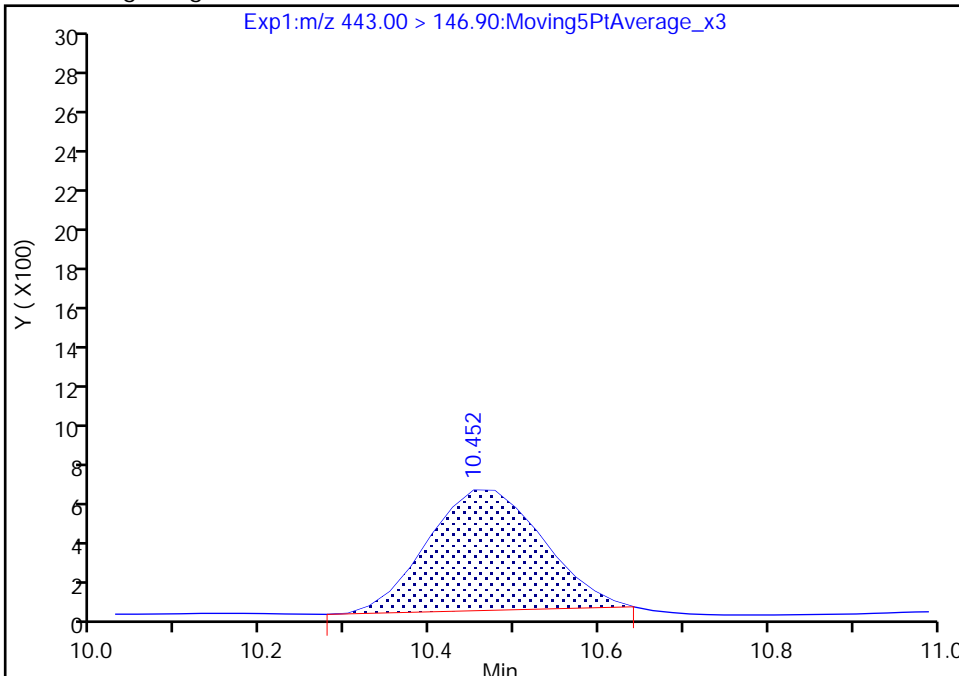
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210109-110985.b\2021.01.09\_TB3\_A7\_B\_043.d  
 Injection Date: 10-Jan-2021 07:02:37 Instrument ID: A7\_N  
 Lims ID: 320-68542-A-2-B DU  
 Client ID: SEEP-C-EFFLUENT-24-123120  
 Operator ID: abservice ALS Bottle#: 43 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

21 PS Acid, CAS: 29311-67-9

Signal: 1

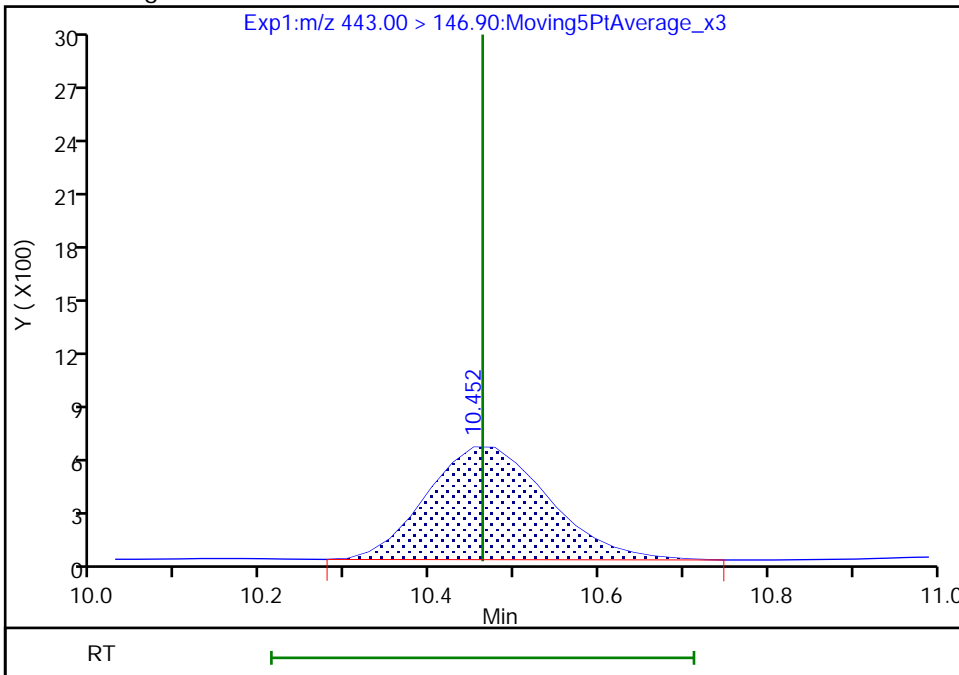
RT: 10.45  
 Area: 5741  
 Amount: 0.000347  
 Amount Units: ng/ml

Processing Integration Results



RT: 10.45  
 Area: 6260  
 Amount: 0.000379  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 11-Jan-2021 07:58:24  
 Audit Action: Manually Integrated

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 12/15/2020 19:54

Analysis Batch Number: 442814 End Date: 12/16/2020 00:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		12/15/2020 19:54	1		GeminiC18 3x100 3(mm)
IC 320-442814/2		12/15/2020 20:11	1	2020.12.15_TB3_ICAL 004.d	GeminiC18 3x100 3(mm)
IC 320-442814/3		12/15/2020 20:29	1	2020.12.15_TB3_ICAL 005.d	GeminiC18 3x100 3(mm)
IC 320-442814/4		12/15/2020 20:47	1	2020.12.15_TB3_ICAL 006.d	GeminiC18 3x100 3(mm)
IC 320-442814/5		12/15/2020 21:04	1	2020.12.15_TB3_ICAL 007.d	GeminiC18 3x100 3(mm)
IC 320-442814/6		12/15/2020 21:22	1	2020.12.15_TB3_ICAL 008.d	GeminiC18 3x100 3(mm)
IC 320-442814/7		12/15/2020 21:39	1	2020.12.15_TB3_ICAL 009.d	GeminiC18 3x100 3(mm)
IC 320-442814/8		12/15/2020 21:57	1	2020.12.15_TB3_ICAL 010.d	GeminiC18 3x100 3(mm)
IC 320-442814/9		12/15/2020 22:15	1	2020.12.15_TB3_ICAL 011.d	GeminiC18 3x100 3(mm)
ZZZZZ		12/15/2020 22:32	1		GeminiC18 3x100 3(mm)
IC 320-442814/11		12/15/2020 22:50	1	2020.12.15_TB3_ICAL 013.d	GeminiC18 3x100 3(mm)
IC 320-442814/12		12/15/2020 23:07	1	2020.12.15_TB3_ICAL 014.d	GeminiC18 3x100 3(mm)
ICB 320-442814/13		12/15/2020 23:25	1		GeminiC18 3x100 3(mm)
ICV 320-442814/14		12/15/2020 23:43	1	2020.12.15_TB3_ICAL 016.d	GeminiC18 3x100 3(mm)
ZZZZZ		12/16/2020 00:00	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 01/10/2021 04:59

Analysis Batch Number: 450034 End Date: 01/10/2021 08:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-450034/1		01/10/2021 04:59	1	2021.01.09_TB3_ A7 B 036.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/10/2021 05:17	1		GeminiC18 3x100 3(mm)
MB 320-449645/1-A		01/10/2021 05:34	1	2021.01.09_TB3_ A7 B 038.d	GeminiC18 3x100 3(mm)
320-68542-1	SEEP-C-INFLUENT-24-12 3120	01/10/2021 05:52	1	2021.01.09_TB3_ A7 B 039.d	GeminiC18 3x100 3(mm)
320-68542-3	SEEP-C-EFFLUENT-24-12 3120-D	01/10/2021 06:09	1	2021.01.09_TB3_ A7 B 040.d	GeminiC18 3x100 3(mm)
320-68542-4	SEEP-C-FBLK-123120	01/10/2021 06:27	1	2021.01.09_TB3_ A7 B 041.d	GeminiC18 3x100 3(mm)
320-68542-2	SEEP-C-EFFLUENT-24-12 3120	01/10/2021 06:45	1	2021.01.09_TB3_ A7 B 042.d	GeminiC18 3x100 3(mm)
320-68542-2 DU	SEEP-C-EFFLUENT-24-12 3120 DU	01/10/2021 07:02	1	2021.01.09_TB3_ A7 B 043.d	GeminiC18 3x100 3(mm)
320-68542-2 MS	SEEP-C-EFFLUENT-24-12 3120 MS	01/10/2021 07:20	1	2021.01.09_TB3_ A7 B 044.d	GeminiC18 3x100 3(mm)
LCS 320-449645/2-A		01/10/2021 07:37	1	2021.01.09_TB3_ A7 B 045.d	GeminiC18 3x100 3(mm)
LCSD 320-449645/3-A		01/10/2021 07:55	1	2021.01.09_TB3_ A7 B 046.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/10/2021 08:12	1		GeminiC18 3x100 3(mm)
CCV 320-450034/13		01/10/2021 08:30	1	2021.01.09_TB3_ A7 B 048.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-68542-1

SDG No.: \_\_\_\_\_

Batch Number: 449645 Batch Start Date: 01/08/21 08:21 Batch Analyst: Anderson, Marina M

Batch Method: PFAS Prep Batch End Date: 01/08/21 12:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00016	LCTB3_SP 00063	AnalysisComment	
MB 320-449645/1		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL			
LCS 320-449645/2		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
LCSD 320-449645/3		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
320-68542-A-1	SEEP-C-INFLUENT-24-123120	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH=7.	
320-68542-A-2	SEEP-C-EFFLUENT-24-123120	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH=7.	
320-68542-A-2 DU	SEEP-C-EFFLUENT-24-123120	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH=7.	
320-68542-A-2 MS	SEEP-C-EFFLUENT-24-123120	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL	100 uL	pH=7.	
320-68542-A-3	SEEP-C-EFFLUENT-24-123120-D	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH=7.	
320-68542-A-4	SEEP-C-FBLK-123120	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH=7.	

Batch Notes	

Basis	Basis Description
T	Total/NA


The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

# Shipping and Receiving Documents

Chain of Custody Record

Sacramento, CA 95605  
(916) 373-5600

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Site Contact: Christel Compton		Date: 01/04/2021	Carrier: FedEx	COC No: PAR-050720-2	1 of 1 COCs		
Chemours		Lab Contact:		Sampler:					
22828 NC HWY 87 W		Analysis Turnaround Time		For Lab Use Only:					
Fayetteville, NC 28306		<input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		Walk-in Client:					
910-678-1213		TAT if different from Below		Lab Sampling:					
Project Name: Seep Flow Through Cell Sampling 2020		<input checked="" type="checkbox"/> 2 weeks		Job / SDG No.:					
Site: Chemours Fayetteville Works Plant		<input type="checkbox"/> 1 week		Sample Specific Notes:					
P O #		<input type="checkbox"/> 2 days		Hold All Remaining Volumes					
		<input type="checkbox"/> 1 day		as Retains					
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Table 3+ (20) HL	Table 3+ (20) LL
SEEP-C-INFLUENT-24-123120	12/31/2020	13:00	C	W	5	N	N	X	
SEEP-C-EFFLUENT-24-123120	12/31/2020	13:00	C	W	5	N	N	X	
SEEP-C-EFFLUENT-24-123120-MS	12/31/2020	13:00	C	W	5	N	N	X	
SEEP-C-EFFLUENT-24-123120-D	12/31/2020	13:00	C	W	5	N	N	X	
SEEP-C-FBLK-123120	12/31/2020	13:30	G	W	5	N	N	X	
 320-68542 Chain of Custody									
<b>Preservation Used:</b> 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other <b>Possible Hazard Identification:</b> Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown									
<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months									
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>									
Custody Seal No.: 145677A		Cooler Temp. (°C): Obs'd: 02		Therm ID No.: C-21					
Relinquished by: [Signature]		Received by: [Signature]		Company: pta sac		Date/Time: 01/06/21 1040			
Relinquished by:		Received by:		Company:		Date/Time:			
Relinquished by:		Received in Laboratory by:		Company:		Date/Time:			

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-68542-1

**Login Number: 68542**

**List Source: Eurofins TestAmerica, Sacramento**

**List Number: 1**

**Creator: Oropeza, Salvador**

<b>Question</b>	<b>Answer</b>	<b>Comment</b>
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1456727
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

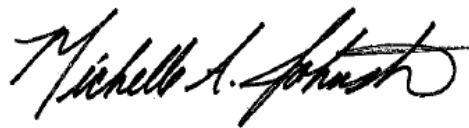
Job Number: 320-69350-1

Job Description: FAY-Seep Flow Through Cell Sampling 2021

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
2/2/2021 10:06 AM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
02/02/2021

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Sacramento**

880 Riverside Parkway, West Sacramento, CA 95605

Tel (916) 373-5600 Fax (916) 372-1059 [www.testamericainc.com](http://www.testamericainc.com)





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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2021**  
**Report Number: 320-69350-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Sample Arrival and Receipt**

The samples were received on 1/27/2021 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

No anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-RAIN-INFLUENT-24-012621 (320-69350-1), SEEP-C-RAIN-EFFLUENT-24-012621 (320-69350-2), SEEP-C-RAIN-EQBLK-012621 (320-69350-3), SEEP-C-INFLUENT-138-011821 (320-69350-4), SEEP-C-EFFLUENT-138-011821 (320-69350-5) and SEEP-C-FBLK-011821 (320-69350-6) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared on 01/28/2021 and analyzed on 01/29/2021, 01/30/2021 and 01/31/2021.

The following samples are yellow and contain floating particulates at the bottom of the bottle prior to extraction: SEEP-C-INFLUENT-138-011821 (320-69350-4) and SEEP-C-EFFLUENT-138-011821 (320-69350-5).

Results for samples SEEP-C-RAIN-INFLUENT-24-012621 (320-69350-1) and SEEP-C-INFLUENT-138-011821 (320-69350-4) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The surrogate recoveries were calculated from diluted samples. The reporting limits have been adjusted relative to the dilutions required.

The project required MS and Sample Duplicate could not be performed for prep batch 320-456552, due to either being from a different job/SDG or due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-69350-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	EVE Acid	<0.017	<0.017	0.017
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	HFPO-DA	23	23	0.081
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Hydro-EVE Acid	1.5	1.5	0.014
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Hydrolyzed PSDA	0.74	0.74	0.038
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Hydro-PS Acid	0.44	0.44	0.0061
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	NVHOS	0.93	0.93	0.015
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PEPA	3.9	3.9	0.016
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PES	<0.0067	<0.0067	0.0067
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFECA B	<0.027	<0.027	0.027
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFECA G	<0.048	<0.048	0.048
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFMOAA	80	80	0.080
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFO2HxA	26	26	0.027
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFO3OA	8.2	8.2	0.039
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFO4DA	3.1	3.1	0.059
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PFO5DA	<0.078	<0.078	0.078
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PMPA	9.5	9.5	0.62
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	PS Acid	<0.020	<0.020	0.020
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	R-EVE	0.78	0.78	0.072
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	R-PSDA	0.56	0.56	0.071
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	R-PSDCA	0.025	0.025	0.017
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	EVE Acid	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	HFPO-DA	0.21	0.21	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Hydro-EVE Acid	0.015	0.015	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Hydrolyzed PSDA	0.0095	0.0095	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Hydro-PS Acid	0.0048	0.0048	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	NVHOS	0.0080	0.0080	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PEPA	0.034	0.034	0.010
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PES	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFECA B	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFECA G	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFMOAA	0.74	0.74	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFO2HxA	0.23	0.23	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFO3OA	0.066	0.066	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFO4DA	0.026	0.026	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFO5DA	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PMPA	0.094	0.094	0.020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	PS Acid	<0.0020	<0.0020	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	R-EVE	0.0076	0.0076	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	R-PSDA	0.0054	0.0054	0.0020
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	R-PSDCA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	EVE Acid	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	HFPO-DA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-69350-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	NVHOS	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PEPA	<0.010	<0.010	0.010
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PES	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFECA B	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFECA G	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFMOAA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFO2HxA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFO3OA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFO4DA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PFO5DA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PMPA	<0.020	<0.020	0.020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	PS Acid	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	R-EVE	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	R-PSDA	<0.0020	<0.0020	0.0020
320-69350-3	SEEP-C-RAIN-EQBLK-012621	R-PSDCA	<0.0020	<0.0020	0.0020
320-69350-4	SEEP-C-INFLUENT-138-011821	EVE Acid	<0.017	<0.017	0.017
320-69350-4	SEEP-C-INFLUENT-138-011821	HFPO-DA	14	14	0.081
320-69350-4	SEEP-C-INFLUENT-138-011821	Hydro-EVE Acid	1.3	1.3	0.014
320-69350-4	SEEP-C-INFLUENT-138-011821	Hydrolyzed PSDA	0.59	0.59	0.038
320-69350-4	SEEP-C-INFLUENT-138-011821	Hydro-PS Acid	0.39	0.39	0.0061
320-69350-4	SEEP-C-INFLUENT-138-011821	NVHOS	0.75	0.75	0.015
320-69350-4	SEEP-C-INFLUENT-138-011821	PEPA	3.2	3.2	0.016
320-69350-4	SEEP-C-INFLUENT-138-011821	PES	<0.0067	<0.0067	0.0067
320-69350-4	SEEP-C-INFLUENT-138-011821	PFECA B	<0.027	<0.027	0.027
320-69350-4	SEEP-C-INFLUENT-138-011821	PFECA G	<0.048	<0.048	0.048
320-69350-4	SEEP-C-INFLUENT-138-011821	PFMOAA	64	64	0.080
320-69350-4	SEEP-C-INFLUENT-138-011821	PFO2HxA	21	21	0.027
320-69350-4	SEEP-C-INFLUENT-138-011821	PFO3OA	6.4	6.4	0.039
320-69350-4	SEEP-C-INFLUENT-138-011821	PFO4DA	2.9	2.9	0.059
320-69350-4	SEEP-C-INFLUENT-138-011821	PFO5DA	<0.078	<0.078	0.078
320-69350-4	SEEP-C-INFLUENT-138-011821	PMPA	8.3	8.3	0.62
320-69350-4	SEEP-C-INFLUENT-138-011821	PS Acid	<0.020	<0.020	0.020
320-69350-4	SEEP-C-INFLUENT-138-011821	R-EVE	0.74	0.74	0.072
320-69350-4	SEEP-C-INFLUENT-138-011821	R-PSDA	0.50	0.50	0.071
320-69350-4	SEEP-C-INFLUENT-138-011821	R-PSDCA	0.024	0.024	0.017
320-69350-5	SEEP-C-EFFLUENT-138-011821	EVE Acid	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	HFPO-DA	0.017	0.017	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-69350-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-69350-5	SEEP-C-EFFLUENT-138-011821	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	NVHOS	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PEPA	<0.010	<0.010	0.010
320-69350-5	SEEP-C-EFFLUENT-138-011821	PES	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFECA B	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFECA G	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFMOAA	0.11	0.11	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFO2HxA	0.019	0.019	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFO3OA	0.0051	0.0051	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFO4DA	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PFO5DA	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PMPA	<0.020	<0.020	0.020
320-69350-5	SEEP-C-EFFLUENT-138-011821	PS Acid	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	R-EVE	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	R-PSDA	<0.0020	<0.0020	0.0020
320-69350-5	SEEP-C-EFFLUENT-138-011821	R-PSDCA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	EVE Acid	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	HFPO-DA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	NVHOS	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PEPA	<0.010	<0.010	0.010
320-69350-6	SEEP-C-FBLK-011821	PES	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFECA B	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFECA G	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFMOAA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFO2HxA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFO3OA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFO4DA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PFO5DA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	PMPA	<0.020	<0.020	0.020
320-69350-6	SEEP-C-FBLK-011821	PS Acid	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	R-EVE	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	R-PSDA	<0.0020	<0.0020	0.0020
320-69350-6	SEEP-C-FBLK-011821	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-24-012621**

**Lab Sample ID: 320-69350-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	23		0.081		ug/L	100		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.5		0.014		ug/L	100		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.74		0.038		ug/L	100		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.44		0.0061		ug/L	100		Chemours (TB3+)	Total/NA
NVHOS	0.93		0.015		ug/L	100		Chemours (TB3+)	Total/NA
PEPA	3.9		0.016		ug/L	100		Chemours (TB3+)	Total/NA
PFMOAA	80		0.080		ug/L	100		Chemours (TB3+)	Total/NA
PFO2HxA	26		0.027		ug/L	100		Chemours (TB3+)	Total/NA
PFO3OA	8.2		0.039		ug/L	100		Chemours (TB3+)	Total/NA
PFO4DA	3.1		0.059		ug/L	100		Chemours (TB3+)	Total/NA
PMPA	9.5		0.62		ug/L	100		Chemours (TB3+)	Total/NA
R-EVE	0.78		0.072		ug/L	100		Chemours (TB3+)	Total/NA
R-PSDA	0.56		0.071		ug/L	100		Chemours (TB3+)	Total/NA
R-PSDCA	0.025		0.017		ug/L	100		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-012621**

**Lab Sample ID: 320-69350-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.21		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	0.015		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.0095		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.0048		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.0080		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	0.034		0.010		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	0.74		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	0.23		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	0.066		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.026		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	0.094		0.020		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.0076		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.0054		0.0020		ug/L	1		Chemours (TB3+)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-012621**

**Lab Sample ID: 320-69350-3**

No Detections.

**Client Sample ID: SEEP-C-INFLUENT-138-011821**

**Lab Sample ID: 320-69350-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	14		0.081		ug/L	100		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.3		0.014		ug/L	100		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.59		0.038		ug/L	100		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.39		0.0061		ug/L	100		Chemours (TB3+)	Total/NA
NVHOS	0.75		0.015		ug/L	100		Chemours (TB3+)	Total/NA
PEPA	3.2		0.016		ug/L	100		Chemours (TB3+)	Total/NA
PFMOAA	64		0.080		ug/L	100		Chemours (TB3+)	Total/NA
PFO2HxA	21		0.027		ug/L	100		Chemours (TB3+)	Total/NA
PFO3OA	6.4		0.039		ug/L	100		Chemours (TB3+)	Total/NA
PFO4DA	2.9		0.059		ug/L	100		Chemours (TB3+)	Total/NA
PMPA	8.3		0.62		ug/L	100		Chemours (TB3+)	Total/NA
R-EVE	0.74		0.072		ug/L	100		Chemours (TB3+)	Total/NA
R-PSDA	0.50		0.071		ug/L	100		Chemours (TB3+)	Total/NA
R-PSDCA	0.024		0.017		ug/L	100		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-EFFLUENT-138-011821**

**Lab Sample ID: 320-69350-5**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.017		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	0.11		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	0.019		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	0.0051		0.0020		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-FBLK-011821**

**Lab Sample ID: 320-69350-6**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-24-012621**

**Lab Sample ID: 320-69350-1**

Date Collected: 01/26/21 11:35

Matrix: Water

Date Received: 01/27/21 10:00

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>HFPO-DA</b>	<b>23</b>		0.081		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>Hydro-EVE Acid</b>	<b>1.5</b>		0.014		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>Hydrolyzed PSDA</b>	<b>0.74</b>		0.038		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>Hydro-PS Acid</b>	<b>0.44</b>		0.0061		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>NVHOS</b>	<b>0.93</b>		0.015		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PEPA</b>	<b>3.9</b>		0.016		ug/L		01/28/21 18:56	01/31/21 01:17	100
PES	<0.0067		0.0067		ug/L		01/28/21 18:56	01/31/21 01:17	100
PFECA B	<0.027		0.027		ug/L		01/28/21 18:56	01/31/21 01:17	100
PFECA G	<0.048		0.048		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PFMOAA</b>	<b>80</b>		0.080		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PFO2HxA</b>	<b>26</b>		0.027		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PFO3OA</b>	<b>8.2</b>		0.039		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PFO4DA</b>	<b>3.1</b>		0.059		ug/L		01/28/21 18:56	01/31/21 01:17	100
PFO5DA	<0.078		0.078		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>PMPA</b>	<b>9.5</b>		0.62		ug/L		01/28/21 18:56	01/31/21 01:17	100
PS Acid	<0.020		0.020		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>R-EVE</b>	<b>0.78</b>		0.072		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>R-PSDA</b>	<b>0.56</b>		0.071		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>R-PSDCA</b>	<b>0.025</b>		0.017		ug/L		01/28/21 18:56	01/31/21 01:17	100
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	83		25 - 150				01/28/21 18:56	01/31/21 01:17	100

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-012621**

**Lab Sample ID: 320-69350-2**

Date Collected: 01/26/21 11:35

Matrix: Water

Date Received: 01/27/21 10:00

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>HFPO-DA</b>	<b>0.21</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>Hydro-EVE Acid</b>	<b>0.015</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>Hydrolyzed PSDA</b>	<b>0.0095</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>Hydro-PS Acid</b>	<b>0.0048</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>NVHOS</b>	<b>0.0080</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PEPA</b>	<b>0.034</b>		0.010		ug/L		01/28/21 18:56	01/31/21 00:07	1
PES	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
PFECA B	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
PFECA G	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PFMOAA</b>	<b>0.74</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PFO2HxA</b>	<b>0.23</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PFO3OA</b>	<b>0.066</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PFO4DA</b>	<b>0.026</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
PFO5DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>PMPA</b>	<b>0.094</b>		0.020		ug/L		01/28/21 18:56	01/31/21 00:07	1
PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>R-EVE</b>	<b>0.0076</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>R-PSDA</b>	<b>0.0054</b>		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
R-PSDCA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/31/21 00:07	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	81		25 - 150				01/28/21 18:56	01/31/21 00:07	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-012621**

**Lab Sample ID: 320-69350-3**

**Date Collected: 01/26/21 15:30**

**Matrix: Water**

**Date Received: 01/27/21 10:00**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
HFPO-DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
NVHOS	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PEPA	<0.010		0.010		ug/L		01/28/21 18:56	01/29/21 22:51	1
PES	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFECA B	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFECA G	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFMOAA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFO2HxA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFO3OA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFO4DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PFO5DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PMPA	<0.020		0.020		ug/L		01/28/21 18:56	01/29/21 22:51	1
PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
R-EVE	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
R-PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
R-PSDCA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 22:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	83		25 - 150				01/28/21 18:56	01/29/21 22:51	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-INFLUENT-138-011821**

**Lab Sample ID: 320-69350-4**

Date Collected: 01/18/21 08:00

Matrix: Water

Date Received: 01/27/21 10:00

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>HFPO-DA</b>	<b>14</b>		0.081		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>Hydro-EVE Acid</b>	<b>1.3</b>		0.014		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>Hydrolyzed PSDA</b>	<b>0.59</b>		0.038		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>Hydro-PS Acid</b>	<b>0.39</b>		0.0061		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>NVHOS</b>	<b>0.75</b>		0.015		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PEPA</b>	<b>3.2</b>		0.016		ug/L		01/28/21 18:56	01/31/21 01:35	100
PES	<0.0067		0.0067		ug/L		01/28/21 18:56	01/31/21 01:35	100
PFECA B	<0.027		0.027		ug/L		01/28/21 18:56	01/31/21 01:35	100
PFECA G	<0.048		0.048		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PFMOAA</b>	<b>64</b>		0.080		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PFO2HxA</b>	<b>21</b>		0.027		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PFO3OA</b>	<b>6.4</b>		0.039		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PFO4DA</b>	<b>2.9</b>		0.059		ug/L		01/28/21 18:56	01/31/21 01:35	100
PFO5DA	<0.078		0.078		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>PMPA</b>	<b>8.3</b>		0.62		ug/L		01/28/21 18:56	01/31/21 01:35	100
PS Acid	<0.020		0.020		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>R-EVE</b>	<b>0.74</b>		0.072		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>R-PSDA</b>	<b>0.50</b>		0.071		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>R-PSDCA</b>	<b>0.024</b>		0.017		ug/L		01/28/21 18:56	01/31/21 01:35	100
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	107		25 - 150				01/28/21 18:56	01/31/21 01:35	100

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-EFFLUENT-138-011821**

**Lab Sample ID: 320-69350-5**

**Date Collected: 01/18/21 08:00**

**Matrix: Water**

**Date Received: 01/27/21 10:00**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
<b>HFPO-DA</b>	<b>0.017</b>		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
NVHOS	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PEPA	<0.010		0.010		ug/L		01/28/21 18:56	01/30/21 00:19	1
PES	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PFECA B	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PFECA G	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
<b>PFMOAA</b>	<b>0.11</b>		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
<b>PFO2HxA</b>	<b>0.019</b>		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
<b>PFO3OA</b>	<b>0.0051</b>		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PFO4DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PFO5DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PMPA	<0.020		0.020		ug/L		01/28/21 18:56	01/30/21 00:19	1
PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
R-EVE	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
R-PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
R-PSDCA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:19	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	82		25 - 150				01/28/21 18:56	01/30/21 00:19	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-FBLK-011821**

**Lab Sample ID: 320-69350-6**

**Date Collected: 01/18/21 16:00**

**Matrix: Water**

**Date Received: 01/27/21 10:00**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
HFPO-DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
NVHOS	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PEPA	<0.010		0.010		ug/L		01/28/21 18:56	01/30/21 00:37	1
PES	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFECA B	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFECA G	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFMOAA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFO2HxA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFO3OA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFO4DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PFO5DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PMPA	<0.020		0.020		ug/L		01/28/21 18:56	01/30/21 00:37	1
PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
R-EVE	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
R-PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
R-PSDCA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/30/21 00:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C3 HFPO-DA	81		25 - 150				01/28/21 18:56	01/30/21 00:37	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.010	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.020	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L



# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	HFPODA (25-150)			
320-69350-1	SEEP-C-RAIN-INFLUENT-24-0	83			
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-0 2621	81			
320-69350-3	SEEP-C-RAIN-EQBLK-012621	83			
320-69350-4	SEEP-C-INFLUENT-138-01182	107			
320-69350-5	SEEP-C-EFFLUENT-138-01182	82			
320-69350-6	SEEP-C-FBLK-011821	81			
LCS 320-456552/2-A	Lab Control Sample	80			
LCSD 320-456552/3-A	Lab Control Sample Dup	86			
MB 320-456552/1-A	Method Blank	84			
<b>Surrogate Legend</b>					
HFPODA = 13C3 HFPO-DA					

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

**Lab Sample ID: MB 320-456552/1-A**

**Matrix: Water**

**Analysis Batch: 456828**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 456552**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
HFPO-DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
NVHOS	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PEPA	<0.010		0.010		ug/L		01/28/21 18:56	01/29/21 16:42	1
PES	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFECA B	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFECA G	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFMOAA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFO2HxA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFO3OA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFO4DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PFO5DA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PMPA	<0.020		0.020		ug/L		01/28/21 18:56	01/29/21 16:42	1
PS Acid	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
R-EVE	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
R-PSDA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
R-PSDCA	<0.0020		0.0020		ug/L		01/28/21 18:56	01/29/21 16:42	1
		<b>MB</b>	<b>MB</b>						
<b>Isotope Dilution</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA		84		25 - 150			01/28/21 18:56	01/29/21 16:42	1

**Lab Sample ID: LCS 320-456552/2-A**

**Matrix: Water**

**Analysis Batch: 456828**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 456552**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
HFPO-DA	0.200	0.205		ug/L		102	70 - 130	
Hydro-EVE Acid	0.200	0.194		ug/L		97	70 - 130	
Hydrolyzed PSDA	0.200	0.165		ug/L		82	50 - 150	
Hydro-PS Acid	0.200	0.197		ug/L		99	70 - 130	
NVHOS	0.200	0.187		ug/L		93	70 - 130	
PEPA	0.200	0.203		ug/L		102	70 - 130	
PES	0.200	0.210		ug/L		105	70 - 130	
PFECA B	0.200	0.176		ug/L		88	70 - 130	
PFECA G	0.200	0.185		ug/L		92	70 - 130	
PFMOAA	0.200	0.175		ug/L		88	70 - 130	
PFO2HxA	0.200	0.181		ug/L		90	70 - 130	
PFO3OA	0.200	0.172		ug/L		86	70 - 130	
PFO4DA	0.200	0.188		ug/L		94	50 - 150	
PFO5DA	0.200	0.148		ug/L		74	50 - 150	
PMPA	0.200	0.177		ug/L		89	70 - 130	
PS Acid	0.200	0.210		ug/L		105	70 - 130	
R-EVE	0.200	0.207		ug/L		103	50 - 150	
R-PSDA	0.200	0.152		ug/L		76	50 - 150	
R-PSDCA	0.200	0.196		ug/L		98	70 - 130	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	80		25 - 150

**Lab Sample ID: LCSD 320-456552/3-A**  
**Matrix: Water**  
**Analysis Batch: 456828**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 456552**

<b>Analyte</b>	<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec.</b>	<b>RPD</b>	<b>RPD</b>	<b>Limit</b>
	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>				<b>Limits</b>	<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
EVE Acid	0.200	0.193		ug/L		97	70 - 130	4		25
HFPO-DA	0.200	0.200		ug/L		100	70 - 130	3		25
Hydro-EVE Acid	0.200	0.194		ug/L		97	70 - 130	0		25
Hydrolyzed PSDA	0.200	0.180		ug/L		90	50 - 150	9		25
Hydro-PS Acid	0.200	0.202		ug/L		101	70 - 130	3		25
NVHOS	0.200	0.191		ug/L		96	70 - 130	2		25
PEPA	0.200	0.208		ug/L		104	70 - 130	2		25
PES	0.200	0.207		ug/L		104	70 - 130	1		25
PFECA B	0.200	0.189		ug/L		95	70 - 130	7		25
PFECA G	0.200	0.184		ug/L		92	70 - 130	0		25
PFMOAA	0.200	0.172		ug/L		86	70 - 130	2		25
PFO2HxA	0.200	0.188		ug/L		94	70 - 130	4		25
PFO3OA	0.200	0.183		ug/L		92	70 - 130	7		25
PFO4DA	0.200	0.177		ug/L		88	50 - 150	6		25
PFO5DA	0.200	0.165		ug/L		82	50 - 150	10		25
PMPA	0.200	0.185		ug/L		92	70 - 130	4		25
PS Acid	0.200	0.204		ug/L		102	70 - 130	3		25
R-EVE	0.200	0.212		ug/L		106	50 - 150	3		25
R-PSDA	0.200	0.164		ug/L		82	50 - 150	8		25
R-PSDCA	0.200	0.204		ug/L		102	70 - 130	4		25

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	86		25 - 150

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## LCMS

### Prep Batch: 456552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Total/NA	Water	PFAS Prep	
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Total/NA	Water	PFAS Prep	
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Total/NA	Water	PFAS Prep	
320-69350-4	SEEP-C-INFLUENT-138-011821	Total/NA	Water	PFAS Prep	
320-69350-5	SEEP-C-EFFLUENT-138-011821	Total/NA	Water	PFAS Prep	
320-69350-6	SEEP-C-FBLK-011821	Total/NA	Water	PFAS Prep	
MB 320-456552/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-456552/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-456552/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 456828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Total/NA	Water	Chemours (TB3+)	456552
320-69350-5	SEEP-C-EFFLUENT-138-011821	Total/NA	Water	Chemours (TB3+)	456552
320-69350-6	SEEP-C-FBLK-011821	Total/NA	Water	Chemours (TB3+)	456552
MB 320-456552/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	456552
LCS 320-456552/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	456552
LCSD 320-456552/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	456552

### Analysis Batch: 457168

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Total/NA	Water	Chemours (TB3+)	456552
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Total/NA	Water	Chemours (TB3+)	456552
320-69350-4	SEEP-C-INFLUENT-138-011821	Total/NA	Water	Chemours (TB3+)	456552

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-24-012621**

**Lab Sample ID: 320-69350-1**

Date Collected: 01/26/21 11:35

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		100			457168	01/31/21 01:17	D1R	TAL SAC

**Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-012621**

**Lab Sample ID: 320-69350-2**

Date Collected: 01/26/21 11:35

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			457168	01/31/21 00:07	D1R	TAL SAC

**Client Sample ID: SEEP-C-RAIN-EQBLK-012621**

**Lab Sample ID: 320-69350-3**

Date Collected: 01/26/21 15:30

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/29/21 22:51	D1R	TAL SAC

**Client Sample ID: SEEP-C-INFLUENT-138-011821**

**Lab Sample ID: 320-69350-4**

Date Collected: 01/18/21 08:00

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		100			457168	01/31/21 01:35	D1R	TAL SAC

**Client Sample ID: SEEP-C-EFFLUENT-138-011821**

**Lab Sample ID: 320-69350-5**

Date Collected: 01/18/21 08:00

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/30/21 00:19	D1R	TAL SAC

**Client Sample ID: SEEP-C-FBLK-011821**

**Lab Sample ID: 320-69350-6**

Date Collected: 01/18/21 16:00

Matrix: Water

Date Received: 01/27/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/30/21 00:37	D1R	TAL SAC

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Client Sample ID: Method Blank

Lab Sample ID: MB 320-456552/1-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/29/21 16:42	D1R	TAL SAC

## Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 320-456552/2-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/29/21 19:03	D1R	TAL SAC

## Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 320-456552/3-A

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	456552	01/28/21 18:56	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			456828	01/29/21 19:20	D1R	TAL SAC

### Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-21 *
ANAB	ISO/IEC 17025	L2468	01-20-21 *
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-30-21 *
Hawaii	State	<cert No.>	01-29-21 *
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-21 *
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-21 *
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

Client = Client derived Standard Operating Procedure

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69350-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	Water	01/26/21 11:35	01/27/21 10:00	
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	Water	01/26/21 11:35	01/27/21 10:00	
320-69350-3	SEEP-C-RAIN-EQBLK-012621	Water	01/26/21 15:30	01/27/21 10:00	
320-69350-4	SEEP-C-INFLUENT-138-011821	Water	01/18/21 08:00	01/27/21 10:00	
320-69350-5	SEEP-C-EFFLUENT-138-011821	Water	01/18/21 08:00	01/27/21 10:00	
320-69350-6	SEEP-C-FBLK-011821	Water	01/18/21 16:00	01/27/21 10:00	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 452203

Lab Sample ID: IC 320-452203/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 16:23 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.64	Baseline	yuj	01/16/21 11:52
R-EVE	7.03	Baseline	yuj	01/16/21 11:45
R-PSDA	7.10	Baseline	yuj	01/16/21 11:45
PMPA	7.29	Baseline	yuj	01/16/21 11:46
NVHOS	7.76	Baseline	yuj	01/16/21 11:46
PFECA B	9.46	Baseline	yuj	01/16/21 11:46

Lab Sample ID: IC 320-452203/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 16:40 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.42	Baseline	yuj	01/16/21 11:51
R-EVE	6.94	Baseline	yuj	01/16/21 11:47
PMPA	7.21	Incomplete Integration	yuj	01/16/21 11:47
NVHOS	7.69	Baseline	yuj	01/16/21 11:47
PFO2HxA	8.31	Baseline	yuj	01/16/21 11:47

Lab Sample ID: IC 320-452203/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 16:58 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.60	Baseline	yuj	01/16/21 11:51
R-EVE	7.00	Baseline	yuj	01/16/21 11:48
PMPA	7.25	Baseline	yuj	01/16/21 11:48

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 452203

Lab Sample ID: IC 320-452203/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 17:15 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.49	Baseline	yuj	01/16/21 11:51
R-EVE	6.95	Baseline	yuj	01/16/21 11:48
PMPA	7.22	Baseline	yuj	01/16/21 11:48

Lab Sample ID: IC 320-452203/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 17:33 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.44	Baseline	yuj	01/16/21 11:50
R-EVE	6.94	Baseline	yuj	01/16/21 11:49

Lab Sample ID: IC 320-452203/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 17:51 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.45	Baseline	yuj	01/16/21 11:50
R-PSDA	7.00	Incomplete Integration	yuj	01/16/21 11:50

Lab Sample ID: IC 320-452203/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 18:08 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-PSDA	6.98	Incomplete Integration	yuj	01/16/21 11:52

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 452203

Lab Sample ID: IC 320-452203/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 18:26 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.92	Incomplete Integration	yuj	01/16/21 11:52
R-PSDA	7.00	Incomplete Integration	yuj	01/16/21 11:52

Lab Sample ID: IC 320-452203/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 19:01 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.93	Baseline	yuj	01/16/21 11:53

Lab Sample ID: IC 320-452203/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 19:19 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.04	Peak assignment corrected	yuj	01/16/21 11:53
R-EVE	7.05	Baseline	yuj	01/16/21 11:53

Lab Sample ID: ICV 320-452203/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/15/21 19:54 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.35	Baseline	yuj	01/16/21 11:54
R-EVE	6.88	Incomplete Integration	yuj	01/16/21 11:54

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 456828

Lab Sample ID: CCV 320-456828/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/29/21 16:07 Lab File ID: 2021.01.29\_TB3\_A\_007.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.15	Baseline	kurilyaki	01/30/21 09:19
R-PSDA	6.87	Incomplete Integration	kurilyaki	01/30/21 09:19
Hydrolyzed PSDA	6.98	Incomplete Integration	kurilyaki	01/30/21 09:19
PMPA	7.09	Incomplete Integration	kurilyaki	01/30/21 09:19
NVHOS	7.82	Incomplete Integration	kurilyaki	01/30/21 09:19

Lab Sample ID: LCS 320-456552/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/29/21 19:03 Lab File ID: 2021.01.29\_TB3\_A\_017.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.22	Baseline	kurilyaki	01/30/21 09:39
R-PSDA	6.87	Incomplete Integration	kurilyaki	01/30/21 09:39
Hydrolyzed PSDA	6.96	Incomplete Integration	kurilyaki	01/30/21 09:39

Lab Sample ID: LCSD 320-456552/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/29/21 19:20 Lab File ID: 2021.01.29\_TB3\_A\_018.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.12	Baseline	kurilyaki	01/30/21 09:40
R-EVE	6.80	Baseline	kurilyaki	01/30/21 09:40
R-PSDA	6.87	Incomplete Integration	kurilyaki	01/30/21 09:40

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 456828

Lab Sample ID: CCV 320-456828/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/29/21 19:55 Lab File ID: 2021.01.29\_TB3\_A\_020.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.14	Baseline	kurilyaki	01/30/21 09:20
R-PSDA	6.86	Incomplete Integration	kurilyaki	01/30/21 09:20
PMPA	7.06	Incomplete Integration	kurilyaki	01/30/21 09:21
NVHOS	7.58	Incomplete Integration	kurilyaki	01/30/21 09:21

Lab Sample ID: CCV 320-456828/27 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/29/21 23:44 Lab File ID: 2021.01.29\_TB3\_A\_033.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.08	Incomplete Integration	kurilyaki	01/30/21 09:22
R-EVE	6.75	Incomplete Integration	kurilyaki	01/30/21 09:22
R-PSDA	6.84	Incomplete Integration	kurilyaki	01/30/21 09:22
Hydrolyzed PSDA	6.93	Incomplete Integration	kurilyaki	01/30/21 09:22
PMPA	7.01	Incomplete Integration	kurilyaki	01/30/21 09:22

Lab Sample ID: 320-69350-5 Client Sample ID: SEEP-C-EFFLUENT-138-011821

Date Analyzed: 01/30/21 00:19 Lab File ID: 2021.01.29\_TB3\_A\_035.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.65	Baseline	ruangyots akuld	02/01/21 06:17
Hydrolyzed PSDA	7.18	Baseline	ruangyots akuld	02/01/21 06:17
PMPA	7.40	Baseline	ruangyots akuld	02/01/21 06:17
Hydro-PS Acid	10.11	Baseline	ruangyots akuld	02/01/21 06:17

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 456828

Lab Sample ID: CCV 320-456828/32 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/30/21 01:12 Lab File ID: 2021.01.29\_TB3\_A\_038.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.96	Baseline	kurilyaki	01/30/21 09:23
PMPA	6.99	Incomplete Integration	kurilyaki	01/30/21 09:23
R-EVE	7.13	Incomplete Integration	kurilyaki	01/30/21 09:23
R-PSDA	7.17	Incomplete Integration	kurilyaki	01/30/21 09:23
Hydrolyzed PSDA	7.22	Incomplete Integration	kurilyaki	01/30/21 09:23
NVHOS	7.79	Incomplete Integration	kurilyaki	01/30/21 09:23

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 457168

Lab Sample ID: CCV 320-457168/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/30/21 23:14 Lab File ID: 2021.01.30\_TB3\_B\_002.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.67	Baseline	ruangyots akuld	02/01/21 05:08
R-PSDA	6.77	Incomplete Integration	contreras e	01/31/21 11:36
Hydrolyzed PSDA	6.87	Incomplete Integration	contreras e	01/31/21 11:36
PMPA	6.96	Incomplete Integration	contreras e	01/31/21 11:36

Lab Sample ID: 320-69350-2 Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-012621

Date Analyzed: 01/31/21 00:07 Lab File ID: 2021.01.30\_TB3\_B\_005.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.55	Baseline	ruangyots akuld	02/01/21 05:10
Hydrolyzed PSDA	7.17	Baseline	ruangyots akuld	02/01/21 05:10
R-PSDA	7.17	Baseline	ruangyots akuld	02/01/21 05:10
NVHOS	7.80	Baseline	ruangyots akuld	02/01/21 05:10
PFO2HxA	8.13	Baseline	ruangyots akuld	02/01/21 05:10

Lab Sample ID: 320-69350-1 Client Sample ID: SEEP-C-RAIN-INFLUENT-24-012621

Date Analyzed: 01/31/21 01:17 Lab File ID: 2021.01.30\_TB3\_B\_009.d GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.28	Baseline	ruangyots akuld	02/01/21 05:13



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Analysis Batch Number: 457168

Lab Sample ID: 320-69350-4 Client Sample ID: SEEP-C-INFLUENT-138-011821

Date Analyzed: 01/31/21 01:35 Lab File ID: 2021.01.30\_TB3\_B\_010.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.31	Baseline	ruangyots akuld	02/01/21 05:13
PFO5DA		Invalid Compound ID	ruangyots akuld	02/01/21 05:14

Lab Sample ID: CCV 320-457168/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 01/31/21 02:10 Lab File ID: 2021.01.30\_TB3\_B\_012.d GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
R-EVE	6.69	Baseline	ruangyots akuld	02/01/21 05:09
R-PSDA	6.78	Incomplete Integration	contreras e	01/31/21 11:43
Hydrolyzed PSDA	6.90	Incomplete Integration	contreras e	01/31/21 11:43
PMPA	6.98	Incomplete Integration	contreras e	01/31/21 11:43

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00021</b>	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLICV_00045</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_ICVSP_00014	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
PFO3OA	0.1 ug/L							
PFO4DA	0.1 ug/L							
PFO5DA	0.1 ug/L							
PMPA	0.1 ug/L							
R-EVE	0.1 ug/L							
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00054</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFMOAA	0.001 ug/L
		PFO2HxA	0.001 ug/L					
		PFO3OA	0.001 ug/L					
		PFO4DA	0.001 ug/L					
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920			(Purchased Reagent)	13C4 PFHPa	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHPa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHPa 00020	07/09/25		Wellington Laboratories, Lot PFHPa0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00039</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
							PFO3OA	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00044</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
		PFO2HxA	0.0025 ug/L					
		PFO30A	0.0025 ug/L					
		PFO4DA	0.0025 ug/L					
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA 00001	100 uL	PFO5DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00044</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
							PFO2HxA	0.005 ug/L
							PFO3OA	0.005 ug/L
							PFO4DA	0.005 ug/L
							PFO5DA	0.005 ug/L
							PMPA	0.005 ug/L
							R-EVE	0.005 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
						LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
						LCBP4 00001	100 uL	R-PSDA	5000 ug/L
						LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
						LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
						LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
						LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
						LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
						LCPEPA 00002	100 uL	PEPA	5000 ug/L
						LCPEP 00001	100 uL	PES	5000 ug/L
						LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
						LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
						LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
						LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
						LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
						LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
						LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
						LCMPA 00002	100 uL	PMPA	5000 ug/L
						LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00043</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL		LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
								13C4 PFHpA	0.25 ug/L
						LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
								Perfluoroheptanoic acid	0.01 ug/L
								PS Acid	0.01 ug/L
								Hydro-PS Acid	0.01 ug/L
								R-PSDA	0.01 ug/L
								Hydrolyzed PSDA	0.01 ug/L
								R-PSDCA	0.01 ug/L
								EVE Acid	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00053</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
							PFO2HxA	0.025 ug/L
							PFO3OA	0.025 ug/L
							PFO4DA	0.025 ug/L
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00053</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
							PFO3OA	0.05 ug/L
							PFO4DA	0.05 ug/L
							PFO5DA	0.05 ug/L
							PMPA	0.05 ug/L
							R-EVE	0.05 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
PFO5DA	5 ug/L							
PMPA	5 ug/L							
R-EVE	5 ug/L							
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCTB3_IM2_00011	200 uL	HFPO-DA	50 ug/L
							Perfluoroheptanoic acid	50 ug/L
							PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO30A	50 ug/L
							PFO4DA	50 ug/L
PFO5DA	50 ug/L							
PMPA	50 ug/L							
R-EVE	50 ug/L							
..LCHFPO-DA_00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)		HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFHpA 00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD7_00347	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
					LCM4PFHPA 00035	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C4 PFHpA	0.5 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00387</b>	03/23/21	01/26/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
		PFO3OA	0.1 ug/L					
		PFO4DA	0.1 ug/L					
		PFO5DA	0.1 ug/L					
		PMPA	0.1 ug/L					
		R-EVE	0.1 ug/L					
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00388</b>	03/23/21	01/26/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFM0AA	0.1 ug/L
							PFO2HxA	0.1 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHPA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00389</b>	03/23/21	01/26/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFM0AA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
LCTB3_LLSTD8_00042	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCTB3_SP_00065	500 uL	HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L
							PFO2HxA	0.25 ug/L
PFO3OA	0.25 ug/L							
PFO4DA	0.25 ug/L							
PFO5DA	0.25 ug/L							
PMPA	0.25 ug/L							
R-EVE	0.25 ug/L							
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020				13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920				13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
PFO4DA	5 ug/L							
PFO5DA	5 ug/L							
PMPA	5 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	R-EVE	5 ug/L
					LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
					LCTB3_IM_00020	2 mL	Hydro-PS Acid	50 ug/L
					LCTB3_IM_00020	2 mL	R-PSDA	50 ug/L
					LCTB3_IM_00020	2 mL	Hydrolyzed PSDA	50 ug/L
					LCTB3_IM_00020	2 mL	R-PSDCA	50 ug/L
					LCTB3_IM_00020	2 mL	EVE Acid	50 ug/L
					LCTB3_IM_00020	2 mL	Hydro-EVE Acid	50 ug/L
					LCTB3_IM_00020	2 mL	NVHOS	50 ug/L
					LCTB3_IM_00020	2 mL	PEPA	50 ug/L
					LCTB3_IM_00020	2 mL	PES	50 ug/L
					LCTB3_IM_00020	2 mL	PFECA B	50 ug/L
					LCTB3_IM_00020	2 mL	PFECA G	50 ug/L
					LCTB3_IM_00020	2 mL	PFMOAA	50 ug/L
LCTB3_IM_00020	2 mL	PFO2HxA	50 ug/L					
LCTB3_IM_00020	2 mL	PFO3OA	50 ug/L					
LCTB3_IM_00020	2 mL	PFO4DA	50 ug/L					
LCTB3_IM_00020	2 mL	PFO5DA	50 ug/L					
LCTB3_IM_00020	2 mL	PMPA	50 ug/L					
LCTB3_IM_00020	2 mL	R-EVE	50 ug/L					
...LCHFPO-DA_00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		R-PSDCA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00040</b>	03/23/21	01/10/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00021	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
		PFO2HxA	0.5 ug/L					
		PFO3OA	0.5 ug/L					
		PFO4DA	0.5 ug/L					
		PFO5DA	0.5 ug/L					
		PMPA	0.5 ug/L					
		R-EVE	0.5 ug/L					
.LCMTB3_SU_00021	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
...LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_SP_00063</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							DFSA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							MMF	5 ug/L
							MTP	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							PPF Acid	5 ug/L
							R-EVE	5 ug/L
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							DFSA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							MMF	50 ug/L
							MTP	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							PPF Acid	50 ug/L
							R-EVE	50 ug/L
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
...LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
...LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
...LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
...LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
...LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPPFA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL

Reagent

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**LCHFPO-DA\_00014**



2106190  
 ID: LCHFPO-DA\_00014  
 Exp: 07/09/23 Prpd: YH  
 HFPO-DA

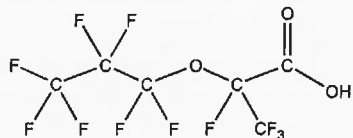


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>7</sub>F<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

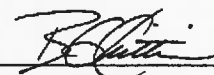
**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**  **Date:** 07/16/2020  
 B.G. Chittim, General Manager (mm/dd/yyyy)

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
**519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

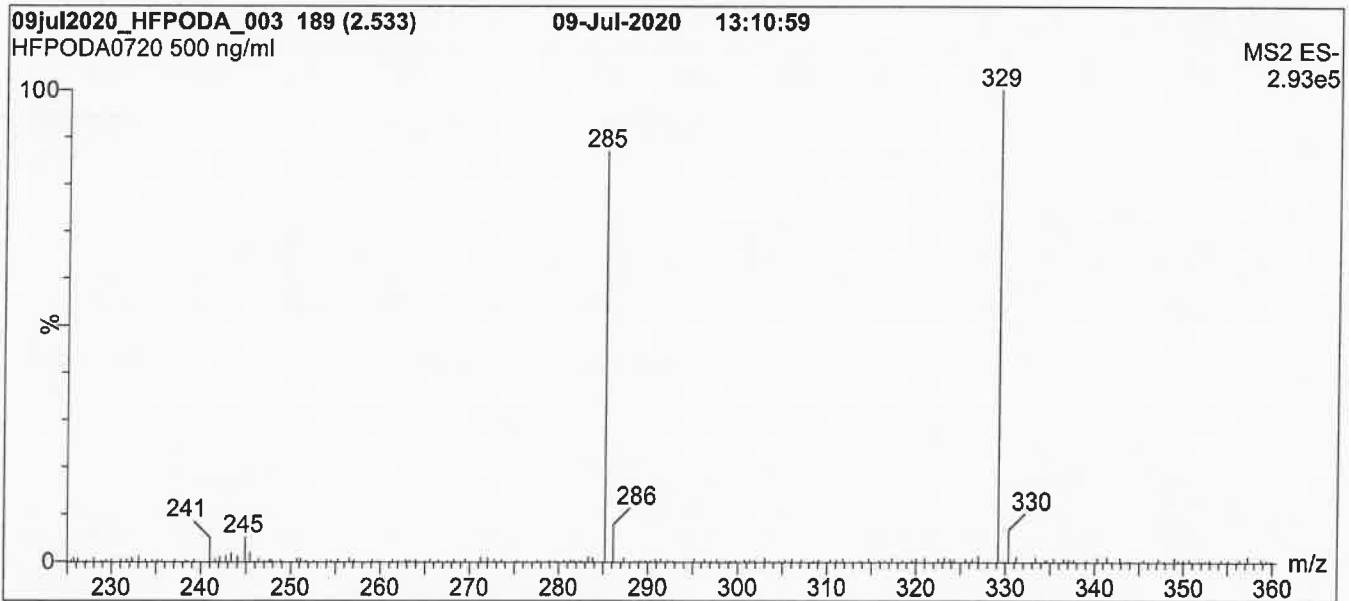
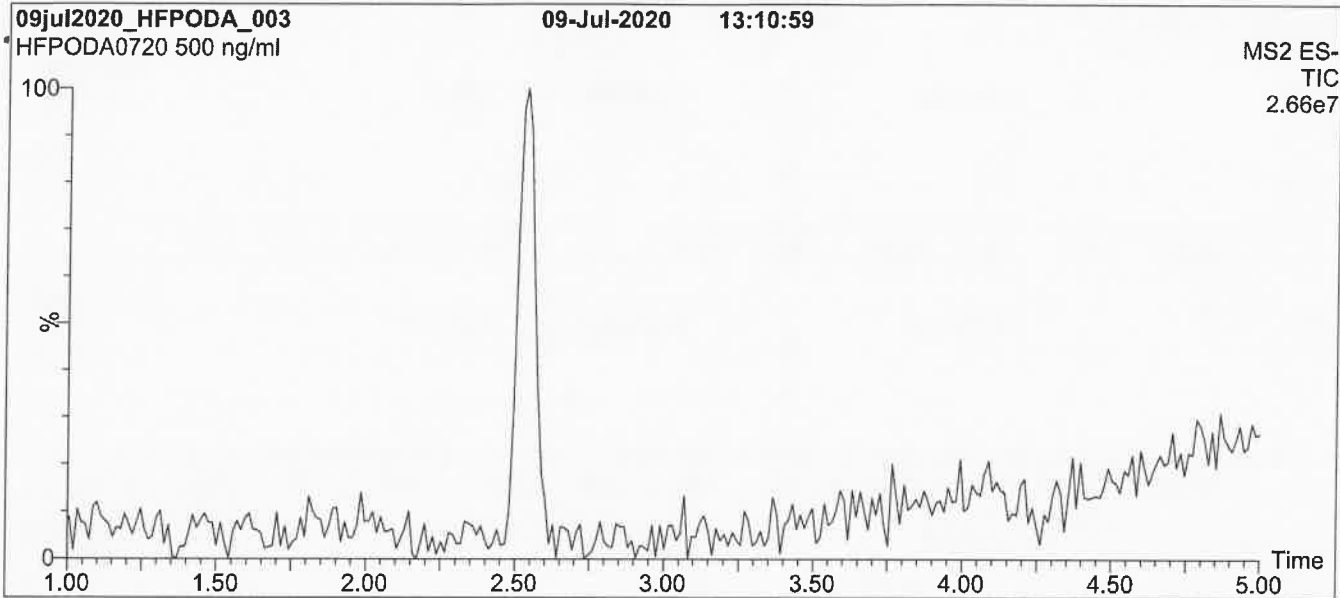
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

**MS Parameters**

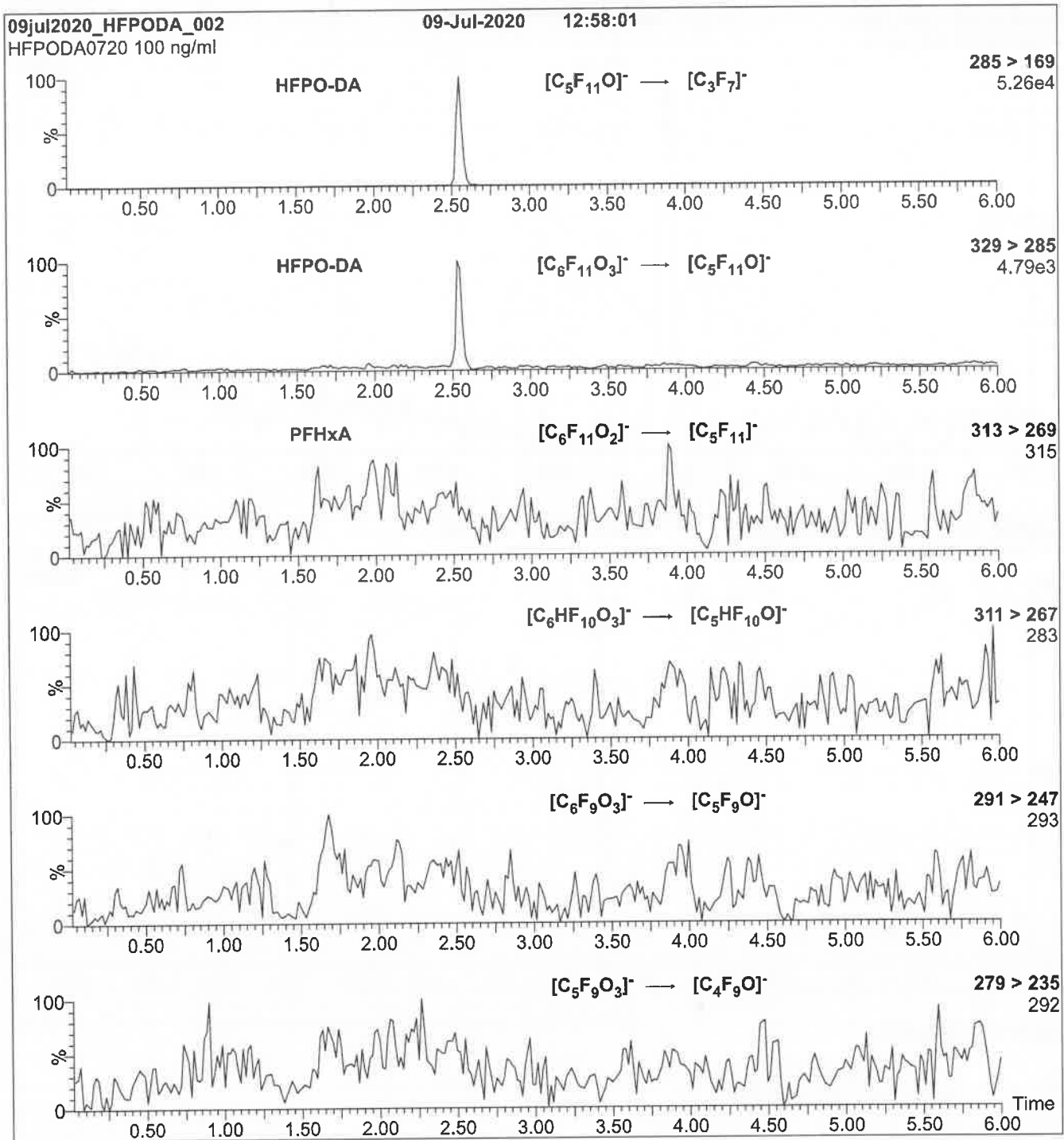
Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature (°C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

Flow: 300  $\mu$ l/min



**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

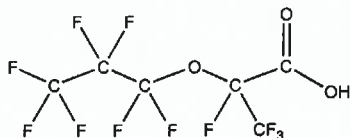
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**LCHFPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>11</sub>F<sub>10</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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**SYNTHESIS / CHARACTERIZATION:**

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The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

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**TRACEABILITY:**

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**EXPIRY DATE / PERIOD OF VALIDITY:**

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**LIMITED WARRANTY:**

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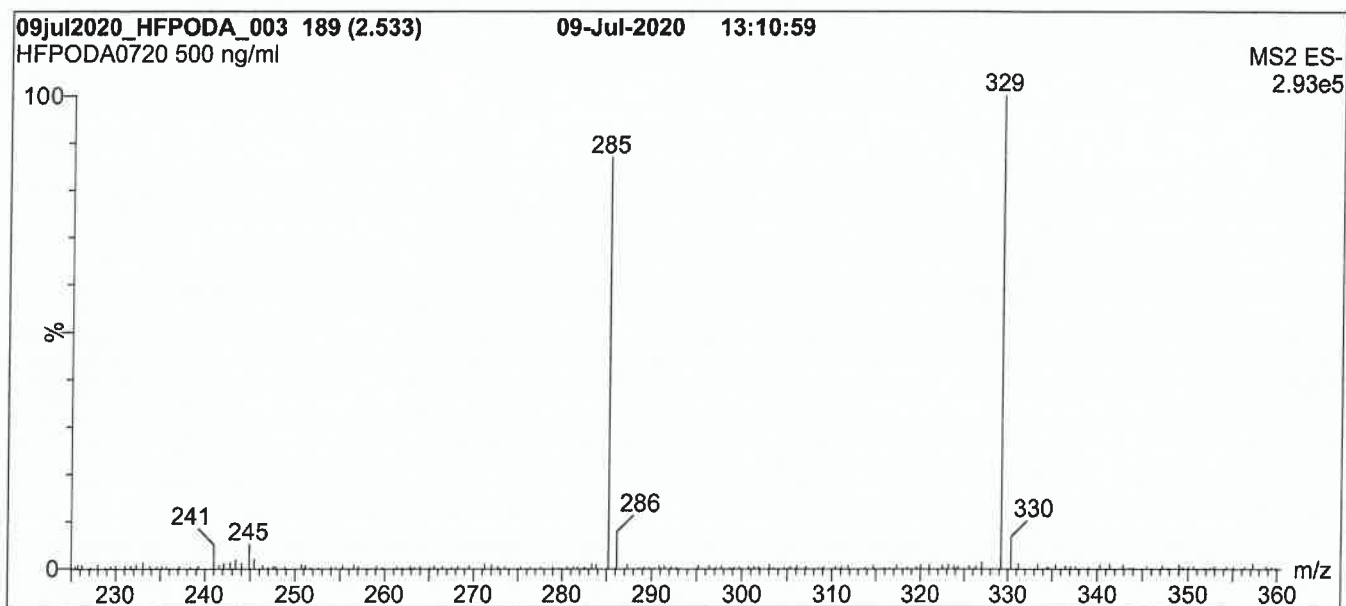
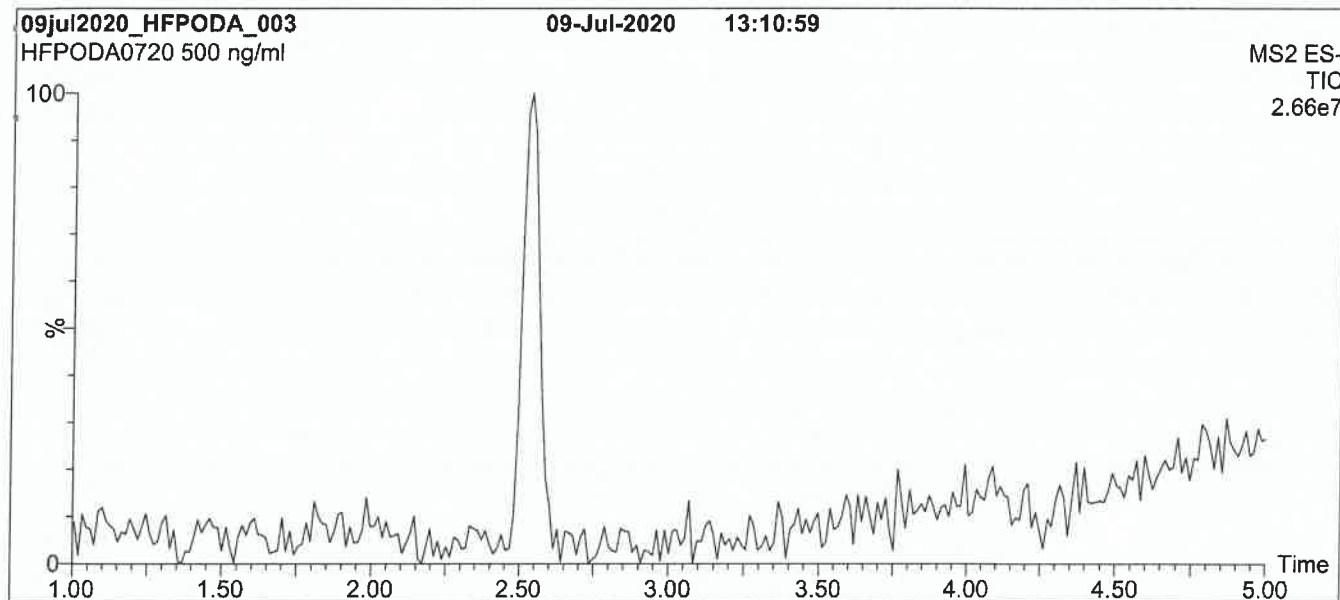
**QUALITY MANAGEMENT:**

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\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

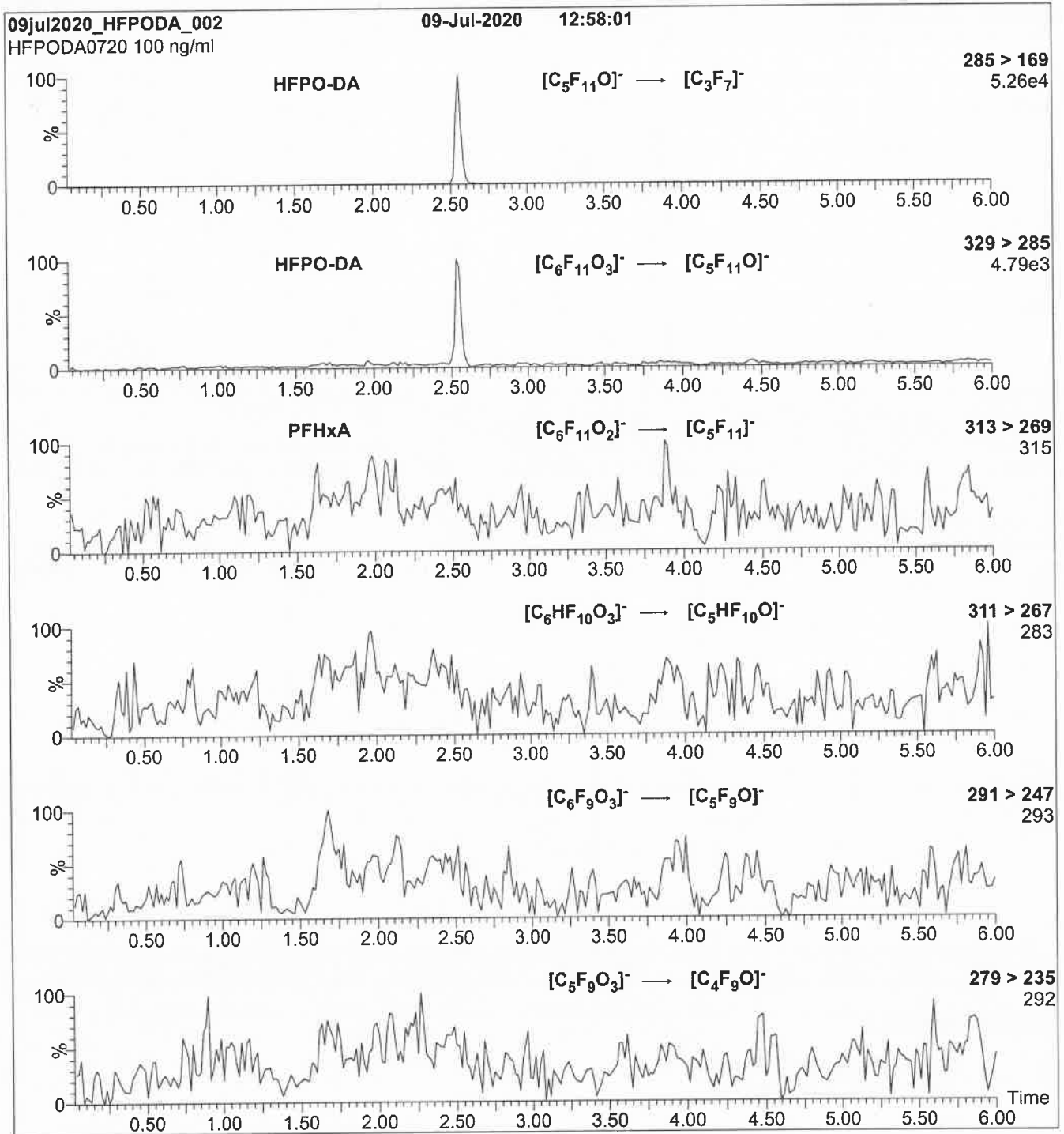
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

Reagent

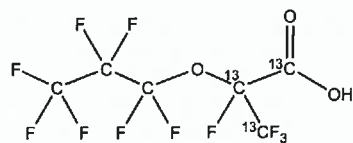
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**LCM3HFPO-DA\_00027**



**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA1020  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>3</sub><sup>12</sup>C<sub>3</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 333.03  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% **ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
**LAST TESTED:** (mm/dd/yyyy) 10/21/2020 (<sup>13</sup>C<sub>3</sub>)  
**EXPIRY DATE:** (mm/dd/yyyy) 10/21/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/23/2020  
(mm/dd/yyyy)



### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

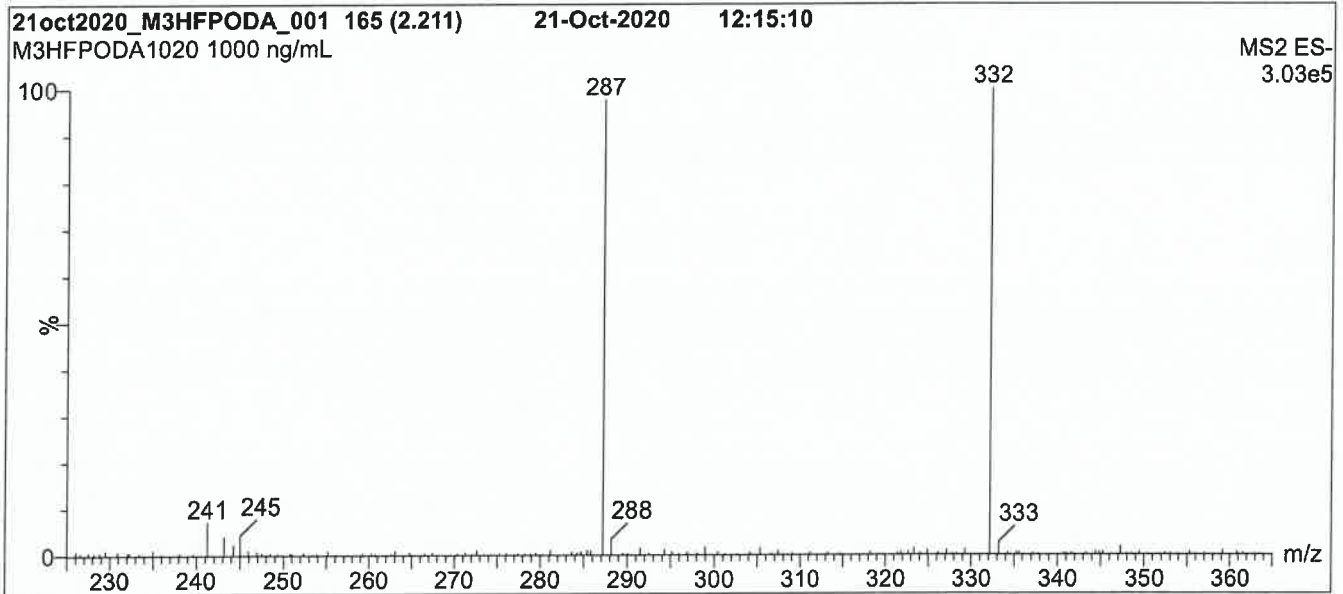
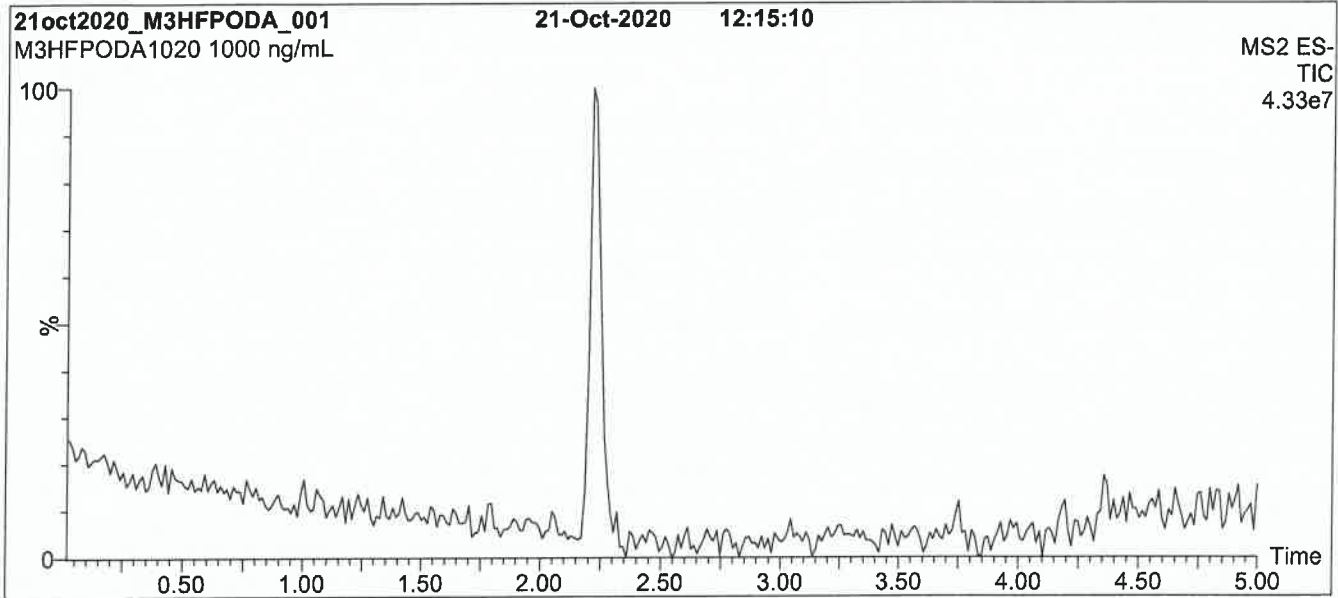
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% H<sub>2</sub>O / 50% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

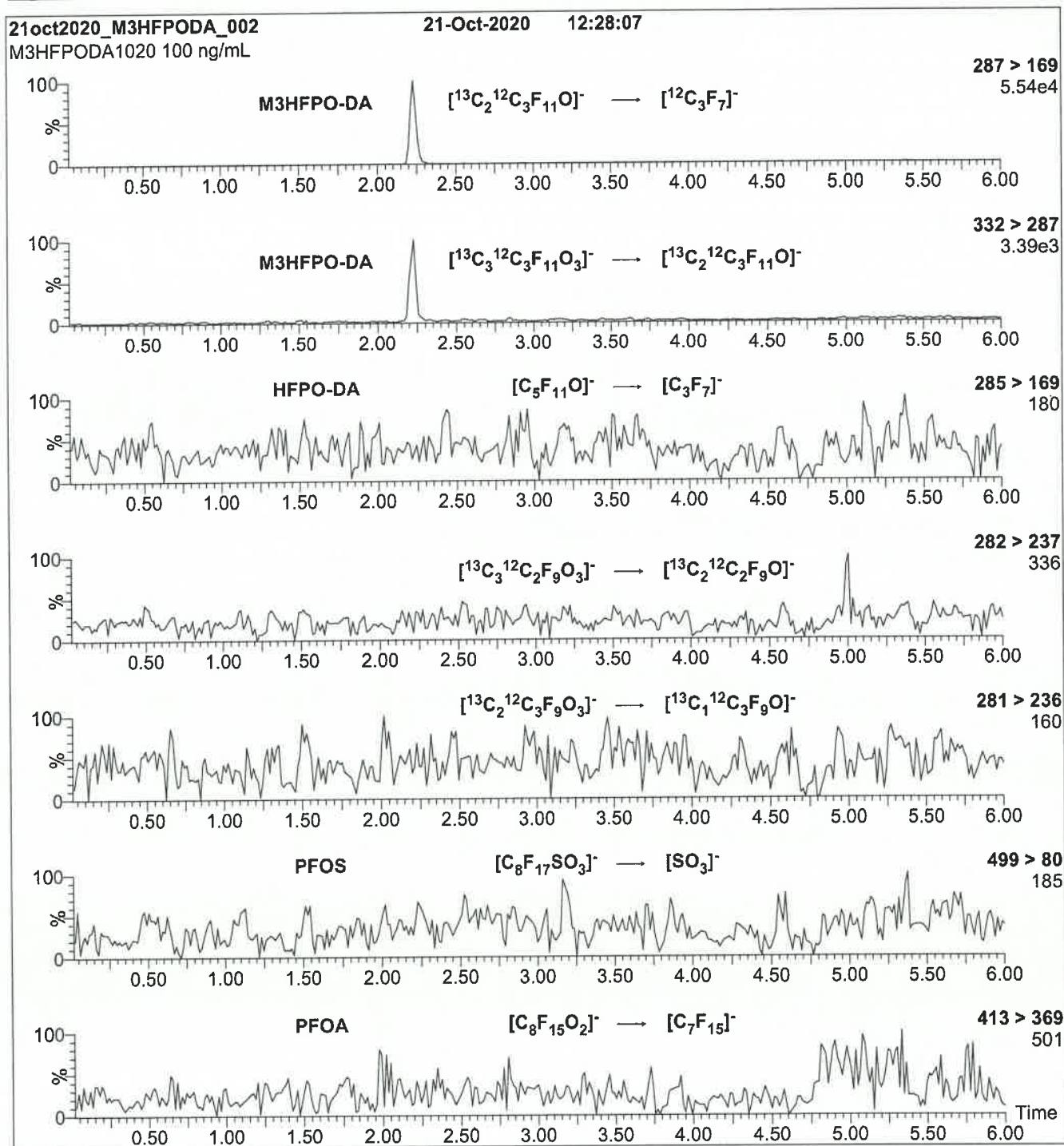
Flow: 300  $\mu$ L/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.50  
Cone Voltage (V) = 15.00  
Desolvation Temperature ( $^{\circ}$ C) = 300  
Desolvation Gas Flow (L/hr) = 1000

**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.41e-3

Collision Energy (eV) = 8

Reagent

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**LCM4PFHPA\_00035**

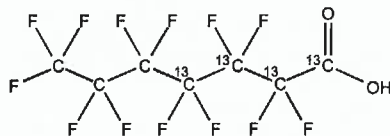


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0920

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)

**CHEMICAL PURITY:** >98%

**ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**LAST TESTED:** (mm/dd/yyyy) 09/29/2020

**EXPIRY DATE:** (mm/dd/yyyy) 09/29/2025

**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/22/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

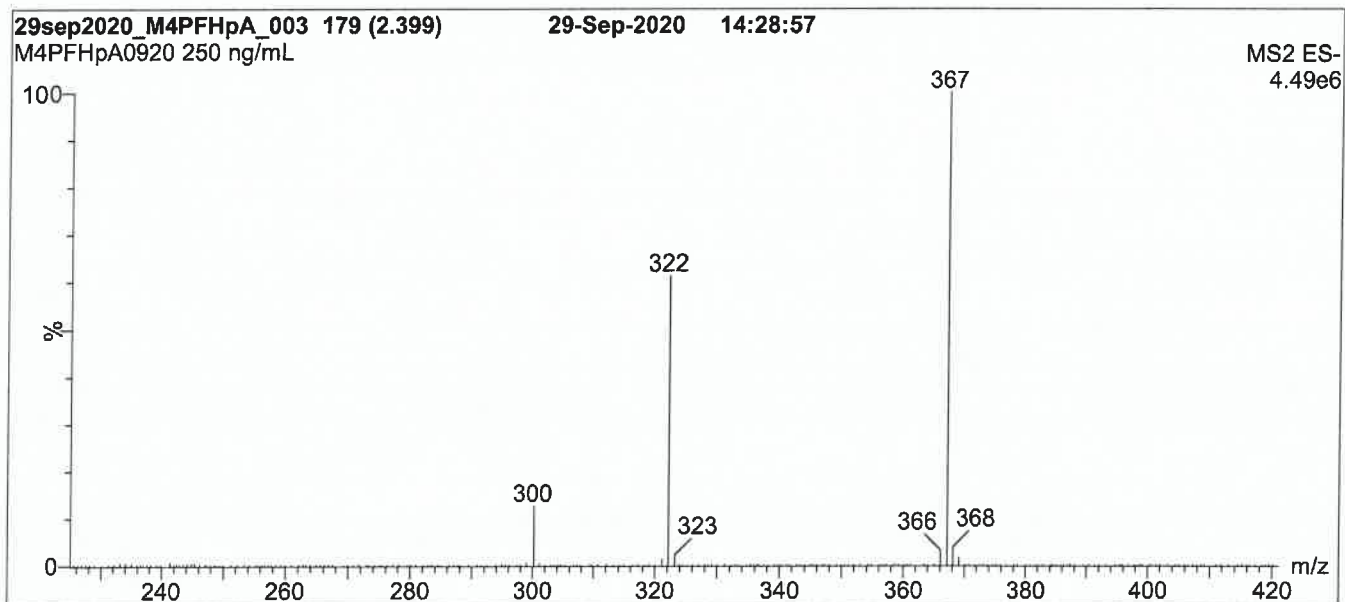
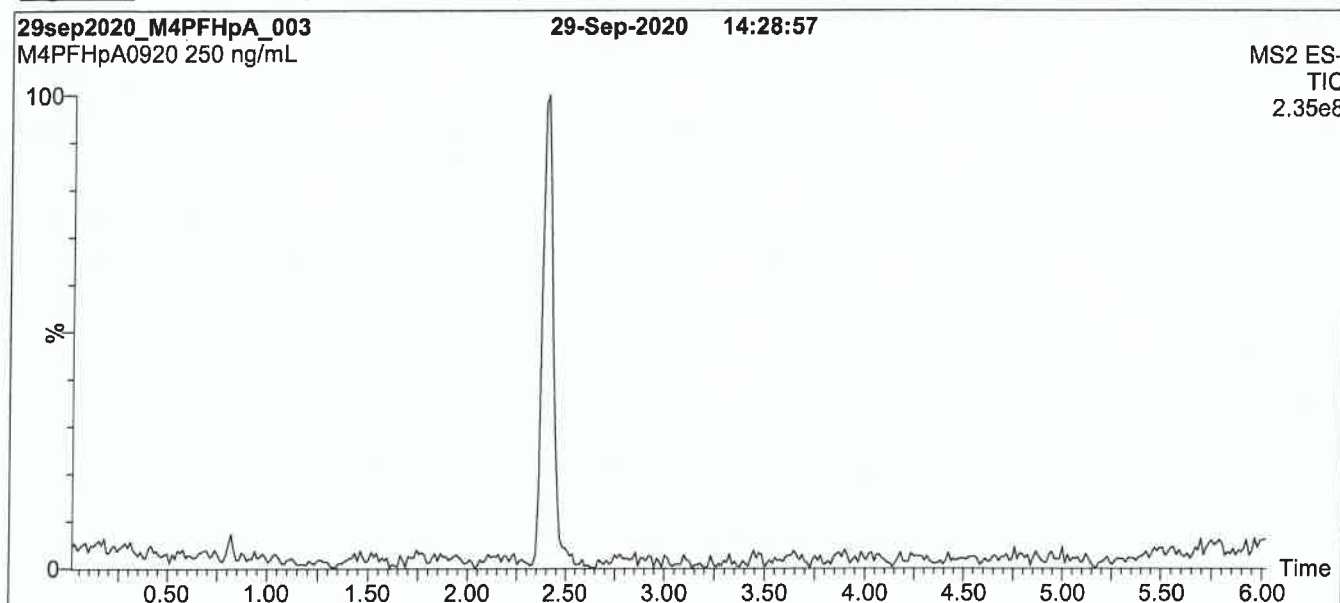
### **QUALITY MANAGEMENT:**

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**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient

Start: 45% H<sub>2</sub>O / 55% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

Flow: 300  $\mu$ L/min

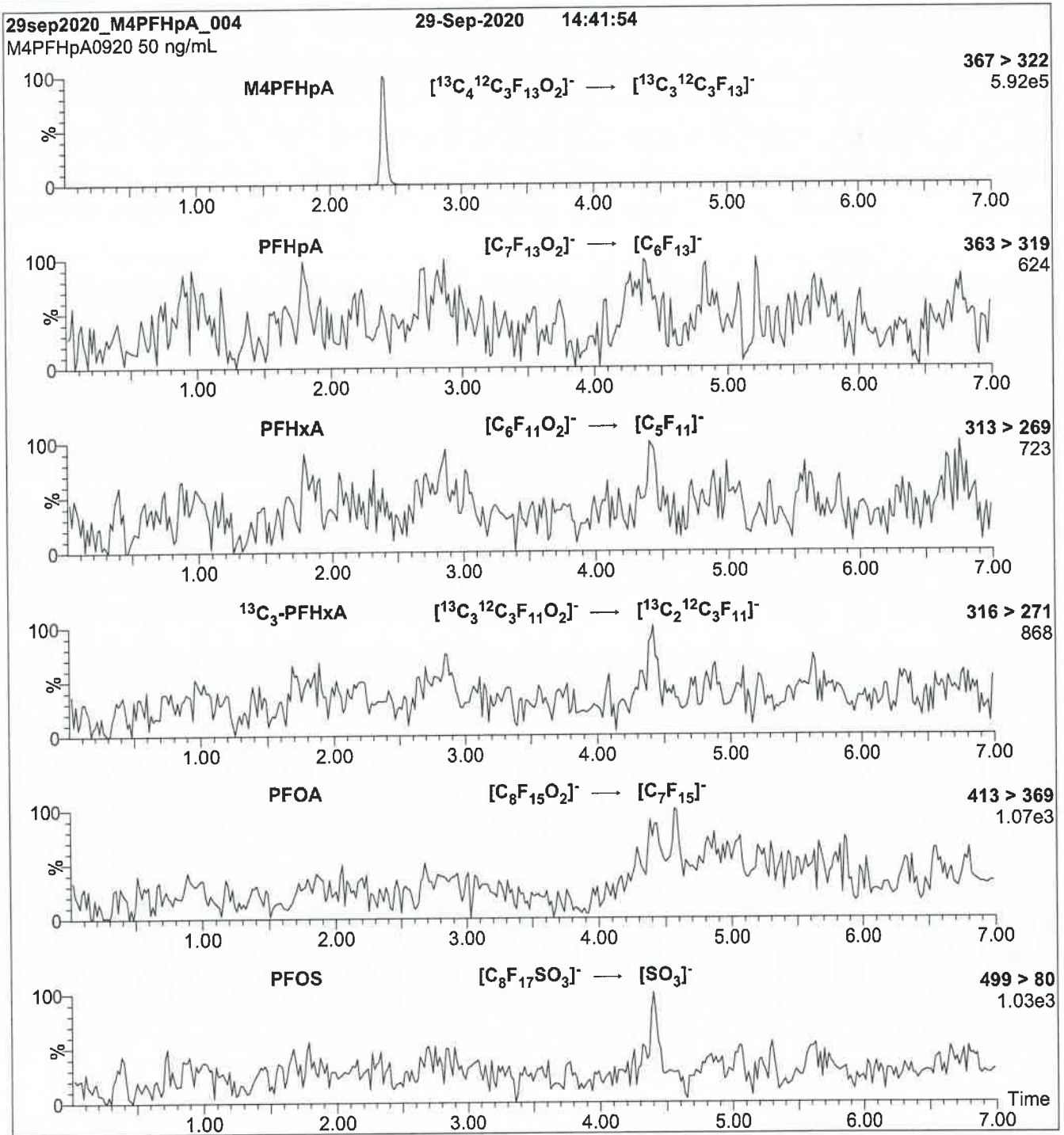
**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (L/hr) = 1000



**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.27e-3

Collision Energy (eV) = 8



Reagent

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**LCPFHpA\_00020**



**INTENDED USE:**

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**HANDLING:**

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**SYNTHESIS / CHARACTERIZATION:**

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where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

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**LIMITED WARRANTY:**

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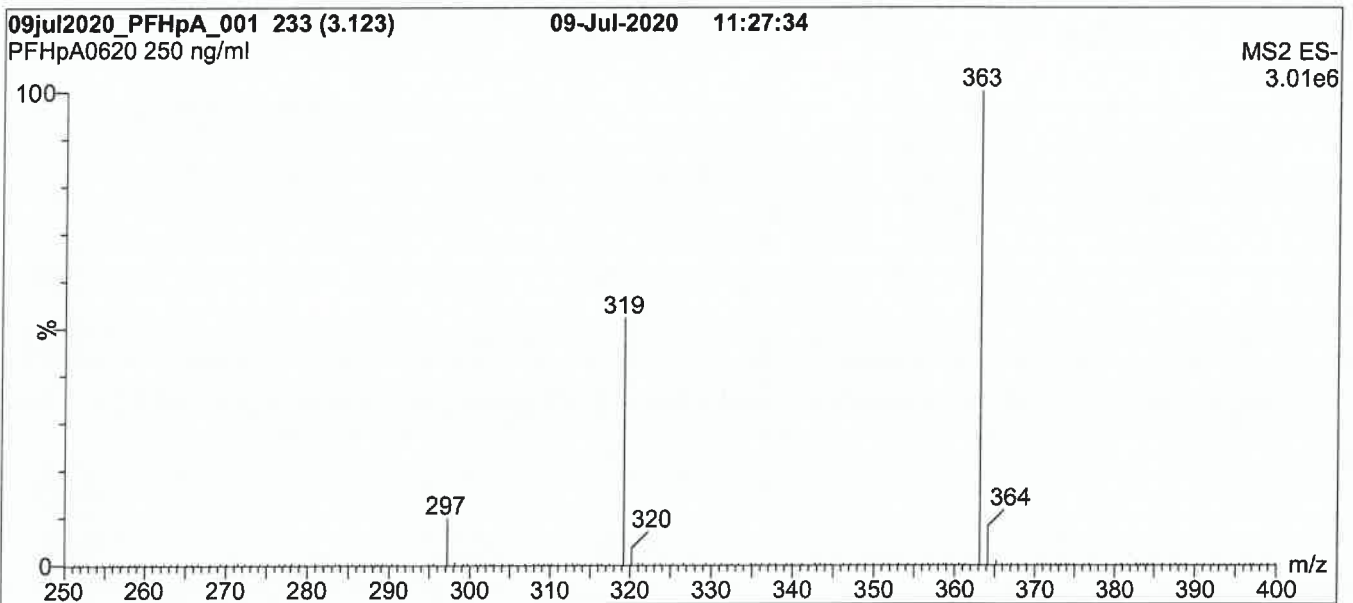
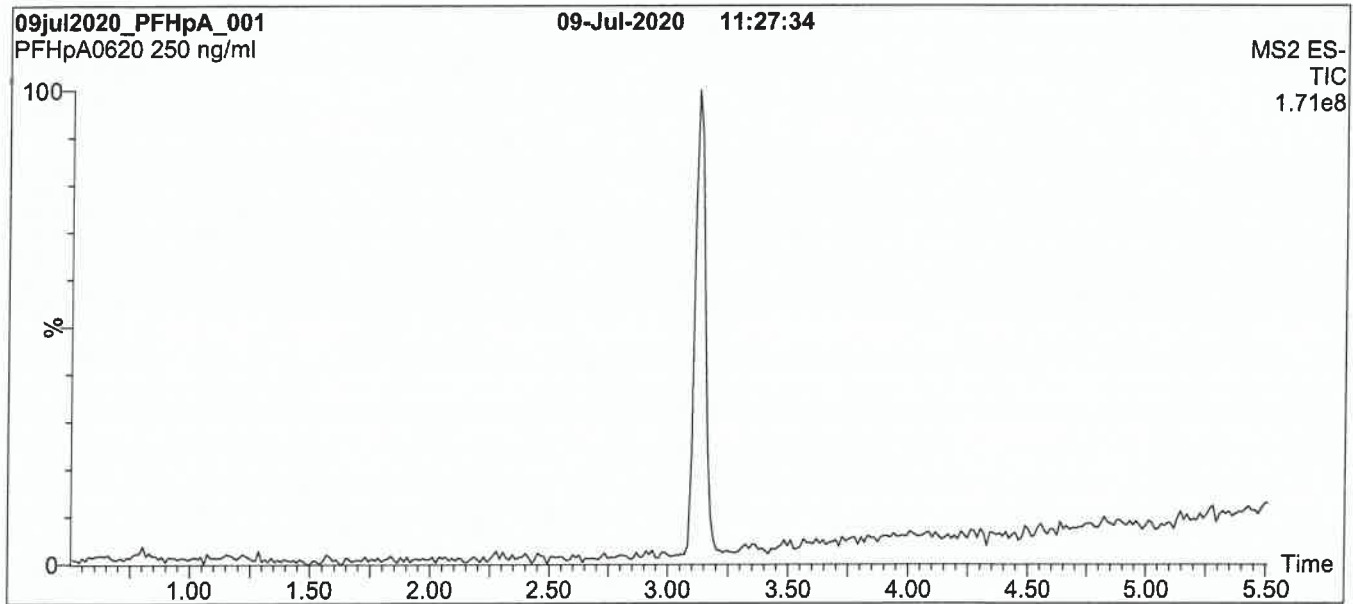
**QUALITY MANAGEMENT:**

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**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

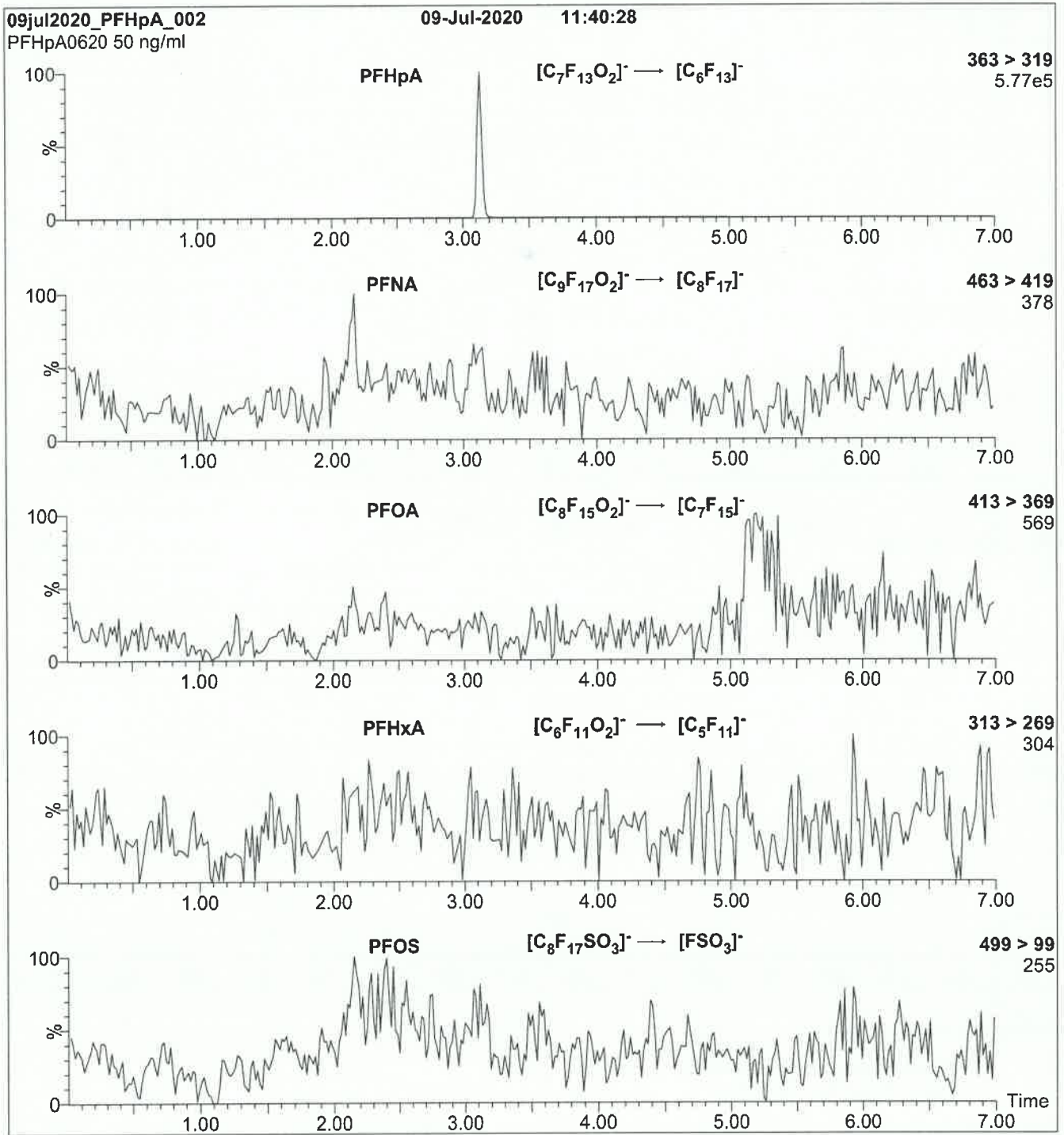
**Flow:** 300 μl/min

**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature (°C) = 500  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

# PFAS\_CHEM\_TB3P

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Fluoroproducts Analytical Method -  
Table 3+

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-RAIN-INFLUE NT-24-012621	320-69350-1	83
SEEP-C-RAIN-EFFLUE NT-24-012621	320-69350-2	81
SEEP-C-RAIN-EQBLK- 012621	320-69350-3	83
SEEP-C-INFLUENT-13 8-011821	320-69350-4	107
SEEP-C-EFFLUENT-13 8-011821	320-69350-5	82
SEEP-C-FBLK-011821	320-69350-6	81
	MB 320-456552/1-A	84
	LCS 320-456552/2-A	80
	LCSD 320-456552/3-A	86

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 2021.01.29\_TB3\_A\_017.d  
 Lab ID: LCS 320-456552/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.401	80	25-150	
EVE Acid	0.200	0.186	93	70-130	
HFPO-DA	0.200	0.205	102	70-130	
Hydro-EVE Acid	0.200	0.194	97	70-130	
Hydrolyzed PSDA	0.200	0.165	82	50-150	
Hydro-PS Acid	0.200	0.197	99	70-130	
NVHOS	0.200	0.187	93	70-130	
PEPA	0.200	0.203	102	70-130	
PES	0.200	0.210	105	70-130	
PFECA B	0.200	0.176	88	70-130	
PFECA G	0.200	0.185	92	70-130	
PFMOAA	0.200	0.175	88	70-130	
PFO2HxA	0.200	0.181	90	70-130	
PFO3OA	0.200	0.172	86	70-130	
PFO4DA	0.200	0.188	94	50-150	
PFO5DA	0.200	0.148	74	50-150	
PMPA	0.200	0.177	89	70-130	
PS Acid	0.200	0.210	105	70-130	
R-EVE	0.200	0.207	103	50-150	
R-PSDA	0.200	0.152	76	50-150	
R-PSDCA	0.200	0.196	98	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)



FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.01.29\_TB3\_A\_018.d

Lab ID: LCSD 320-456552/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.431	86			25-150	
EVE Acid	0.200	0.193	97	4	25	70-130	
HFPO-DA	0.200	0.200	100	3	25	70-130	
Hydro-EVE Acid	0.200	0.194	97	0	25	70-130	
Hydrolyzed PSDA	0.200	0.180	90	9	25	50-150	
Hydro-PS Acid	0.200	0.202	101	3	25	70-130	
NVHOS	0.200	0.191	96	2	25	70-130	
PEPA	0.200	0.208	104	2	25	70-130	
PES	0.200	0.207	104	1	25	70-130	
PFECA B	0.200	0.189	95	7	25	70-130	
PFECA G	0.200	0.184	92	0	25	70-130	
PFMOAA	0.200	0.172	86	2	25	70-130	
PFO2HxA	0.200	0.188	94	4	25	70-130	
PFO3OA	0.200	0.183	92	7	25	70-130	
PFO4DA	0.200	0.177	88	6	25	50-150	
PFO5DA	0.200	0.165	82	10	25	50-150	
PMPA	0.200	0.185	92	4	25	70-130	
PS Acid	0.200	0.204	102	3	25	70-130	
R-EVE	0.200	0.212	106	3	25	50-150	
R-PSDA	0.200	0.164	82	8	25	50-150	
R-PSDCA	0.200	0.204	102	4	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.01.29\_TB3\_A\_009.d      Lab Sample ID: MB 320-456552/1-A  
 Matrix: Water      Date Extracted: 01/28/2021 18:56  
 Instrument ID: A7\_N      Date Analyzed: 01/29/2021 16:42  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-456552/2-A	2021.01.29_TB3 A 017.d	01/29/2021 19:03
	LCSD 320-456552/3-A	2021.01.29_TB3 A 018.d	01/29/2021 19:20
SEEP-C-RAIN-EQBLK-012621	320-69350-3	2021.01.29_TB3 A 030.d	01/29/2021 22:51
SEEP-C-EFFLUENT-138-011821	320-69350-5	2021.01.29_TB3 A 035.d	01/30/2021 00:19
SEEP-C-FBLK-011821	320-69350-6	2021.01.29_TB3 A 036.d	01/30/2021 00:37
SEEP-C-RAIN-EFFLUENT-24-012621	320-69350-2	2021.01.30_TB3 B 005.d	01/31/2021 00:07
SEEP-C-RAIN-INFLUENT-24-012621	320-69350-1	2021.01.30_TB3 B 009.d	01/31/2021 01:17
SEEP-C-INFLUENT-138-011821	320-69350-4	2021.01.30_TB3 B 010.d	01/31/2021 01:35

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: SEEP-C-RAIN-INFLUENT-24-0 Lab Sample ID: 320-69350-1  
12621  
Matrix: Water Lab File ID: 2021.01.30\_TB3\_B\_009.d  
Analysis Method: Chemours (TB3+) Date Collected: 01/26/2021 11:35  
Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
Sample wt/vol: 2.5(mL) Date Analyzed: 01/31/2021 01:17  
Con. Extract Vol.: 5.0(mL) Dilution Factor: 100  
Injection Volume: 500(uL) GC Column: GeminiC18 3x100 ID: 3(mm)  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 457168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.017		0.017	
13252-13-6	HFPO-DA	23		0.081	
773804-62-9	Hydro-EVE Acid	1.5		0.014	
2416366-19-1	Hydrolyzed PSDA	0.74		0.038	
749836-20-2	Hydro-PS Acid	0.44		0.0061	
1132933-86-8	NVHOS	0.93		0.015	
267239-61-2	PEPA	3.9		0.016	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	80		0.080	
39492-88-1	PFO2HxA	26		0.027	
39492-89-2	PFO3OA	8.2		0.039	
39492-90-5	PFO4DA	3.1		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	9.5		0.62	
29311-67-9	PS Acid	<0.020		0.020	
2416366-22-6	R-EVE	0.78		0.072	
2416366-18-0	R-PSDA	0.56		0.071	
2416366-21-5	R-PSDCA	0.025		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_009.d  
 Lims ID: 320-69350-A-1-A  
 Client ID: SEEP-C-RAIN-INFLUENT-24-012621  
 Sample Type: Client  
 Inject. Date: 31-Jan-2021 01:17:45 ALS Bottle#: 9 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 100.0000  
 Sample Info: 320-69350-a-1-a 100X  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:13:38 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld

Date: 01-Feb-2021 05:13:38

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.281	2.768	0.513		5588645	0.3993			17282	M
2 R-EVE										
405.00 > 217.00	6.872	6.551	0.321		32156	0.003908			505	
3 R-PSDA										
440.90 > 241.00	6.948	6.662	0.286		17176	0.002803			471	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.045	6.751	0.293		82042	0.003714			1628	
5 PMPA										
229.00 > 185.00	7.100	6.968	0.132		525592	0.0474			821	
6 NVHOS										
297.00 > 135.00	7.622	7.514	0.108		81786	0.004639			1086	
7 PFO2HxA										
245.00 > 85.00	8.230	8.134	0.096		1772136	0.1323			14792	
8 PEPA										
278.90 > 234.90	8.839	8.827	0.012		142004	0.0195			679	
11 PFO3OA										
310.90 > 85.00	9.569	9.576	-0.007		406118	0.0412			4449	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.679	9.686	-0.007		12808	0.002072		0.8	384	
13 HPFO-DA										
285.00 > 169.00	9.679	9.686	-0.007	1.000	662634	0.1131			19413	
14 R-PSDCA										
397.00 > 217.00	10.038	10.046	-0.008		14578	0.000127			336	
16 Hydro-EVE Acid										
427.00 > 282.90	10.091	10.097	-0.006		472716	0.007545			9085	
17 Hydro-PS Acid										
463.00 > 262.90	10.091	10.097	-0.006		81030	0.002216			1991	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 PFO4DA	376.90	> 85.00	10.352	10.345	0.007	132431	0.0157		2107	

**QC Flag Legend**

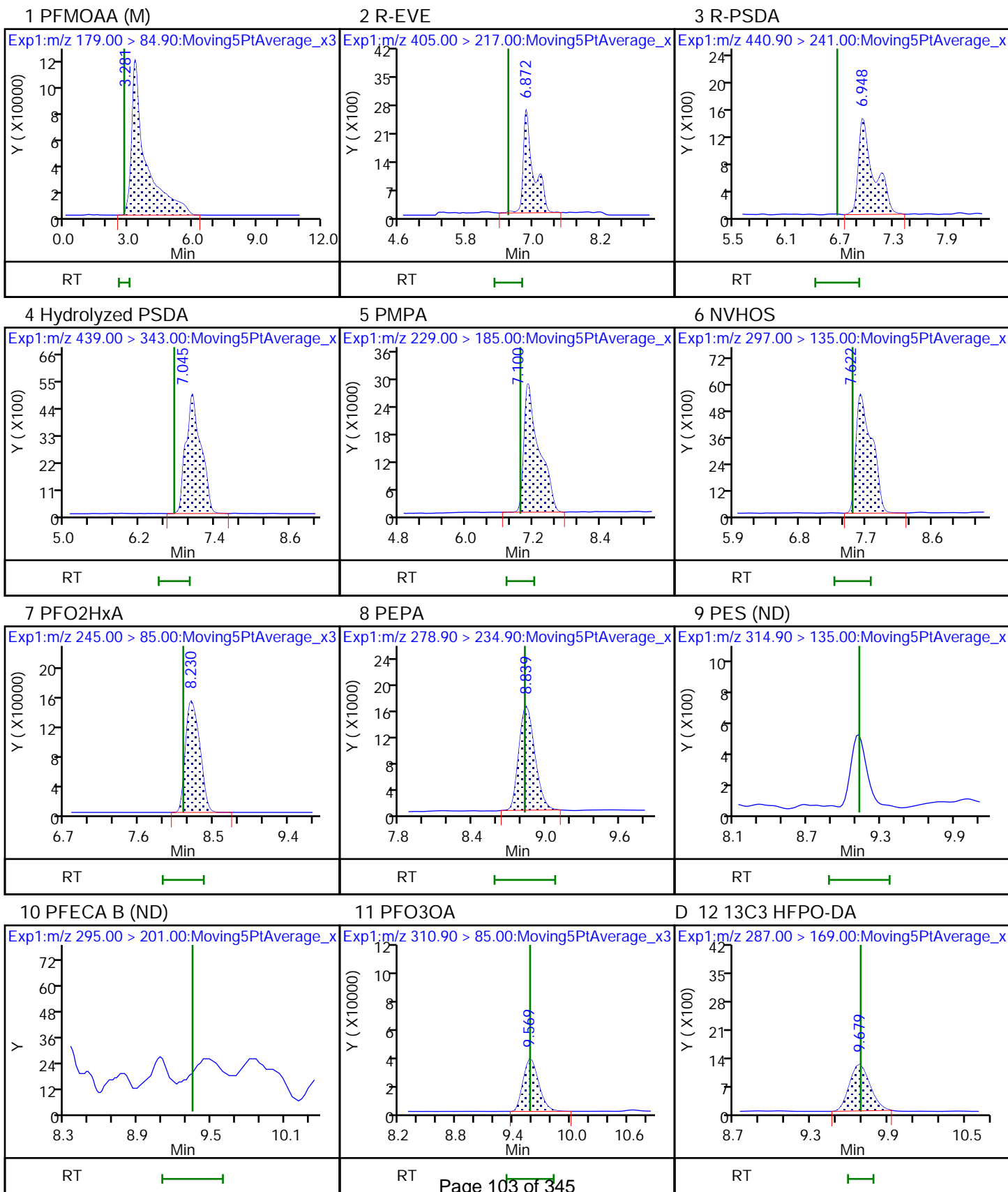
Processing Flags

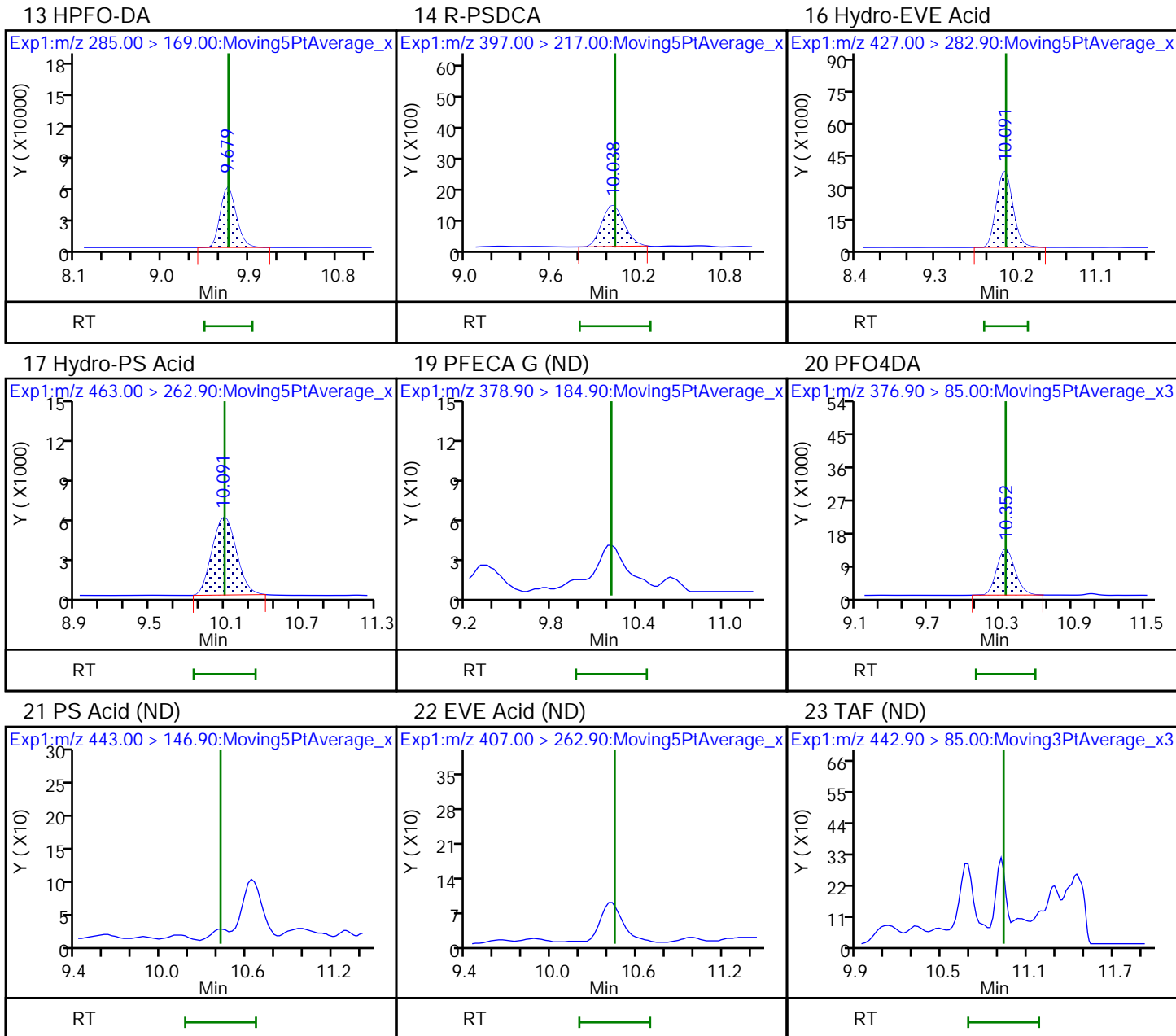
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_009.d  
Injection Date: 31-Jan-2021 01:17:45 Instrument ID: A7\_N  
Lims ID: 320-69350-A-1-A Lab Sample ID: 320-69350-1  
Client ID: SEEP-C-RAIN-INFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 100.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

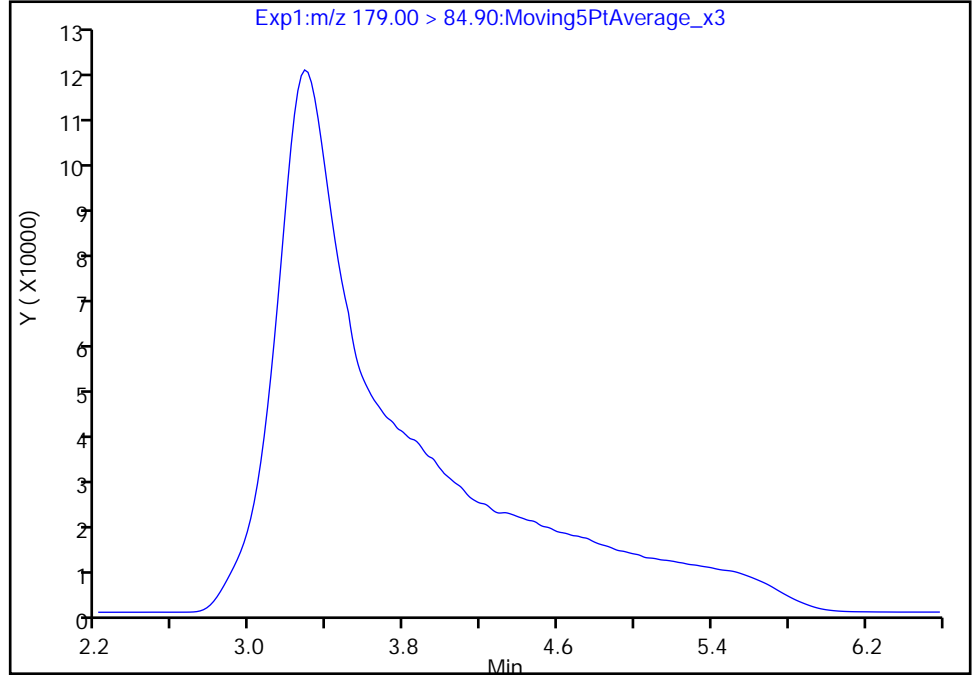
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Injection Date: 31-Jan-2021 01:17:45 Instrument ID: A7\_N  
Lims ID: 320-69350-A-1-A Lab Sample ID: 320-69350-1  
Client ID: SEEP-C-RAIN-INFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 100.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

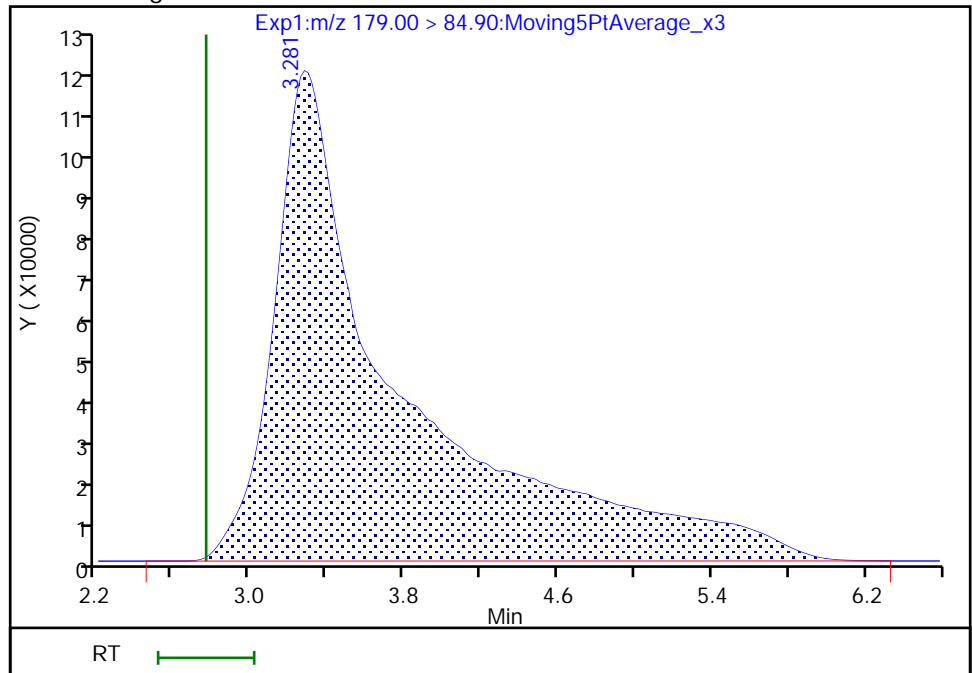
Not Detected  
Expected RT: 2.77

Processing Integration Results



Manual Integration Results

RT: 3.28  
Area: 5588645  
Amount: 0.399326  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 01-Feb-2021 05:13:19

Audit Action: Manually Integrated

Audit Reason: Baseline





Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
 Lims ID: 320-69350-A-2-A  
 Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
 Sample Type: Client  
 Inject. Date: 31-Jan-2021 00:07:31 ALS Bottle#: 5 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69350-a-2-a RI  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:11:02 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 05:11:02  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.768	2.768	0.0	5188323	0.3707			12573	
2 R-EVE	405.00 > 217.00	6.551	6.551	0.0	31136	0.003784			215	M
3 R-PSDA	440.90 > 241.00	7.174	6.662	0.512	16401	0.002676			179	M
4 Hydrolyzed PSDA	439.00 > 343.00	7.174	6.751	0.423	104666	0.004739			954	M
5 PMPA	229.00 > 185.00	6.968	6.968	0.0	523868	0.0472			261	
6 NVHOS	297.00 > 135.00	7.801	7.514	0.287	70899	0.004022			391	M
7 PFO2HxA	245.00 > 85.00	8.134	8.134	0.0	1522538	0.1136			6889	M
8 PEPA	278.90 > 234.90	8.827	8.827	0.0	122925	0.0169			422	
11 PFO3OA	310.90 > 85.00	9.576	9.576	0.0	323212	0.0328			3374	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.686	9.686	0.0	1258434	0.2036		81.4	35346	
13 HPFO-DA	285.00 > 169.00	9.686	9.686	0.0	1.000	597874	0.1039		16849	
14 R-PSDCA	397.00 > 217.00	10.046	10.046	0.0	11514	0.000101			217	
16 Hydro-EVE Acid	427.00 > 282.90	10.097	10.097	0.0	472969	0.007549			9268	
17 Hydro-PS Acid	463.00 > 262.90	10.097	10.097	0.0	87285	0.002387			2181	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 PFO4DA	376.90	> 85.00	10.345	10.345	0.0	107634	0.0128		799	

**QC Flag Legend**

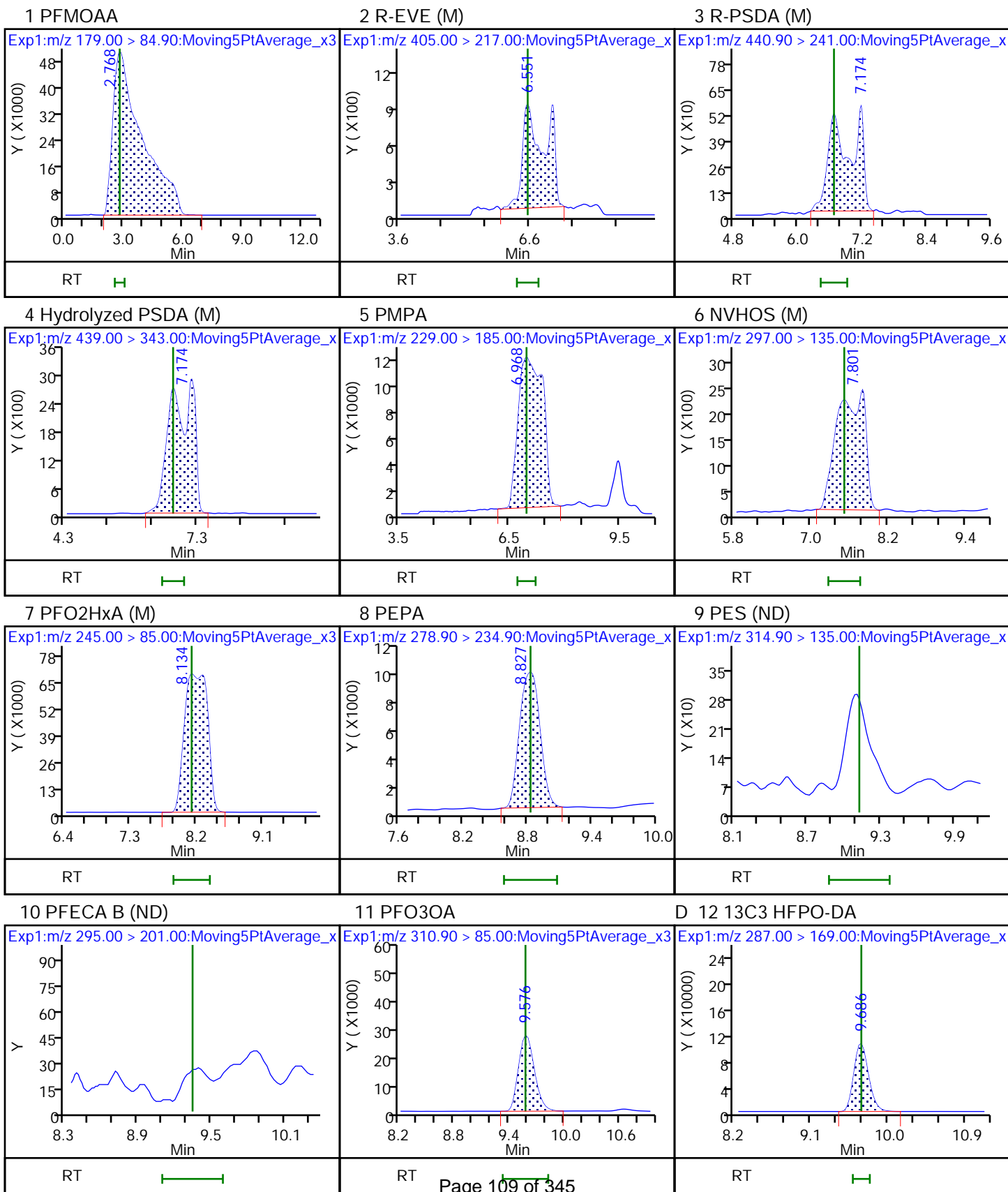
Processing Flags

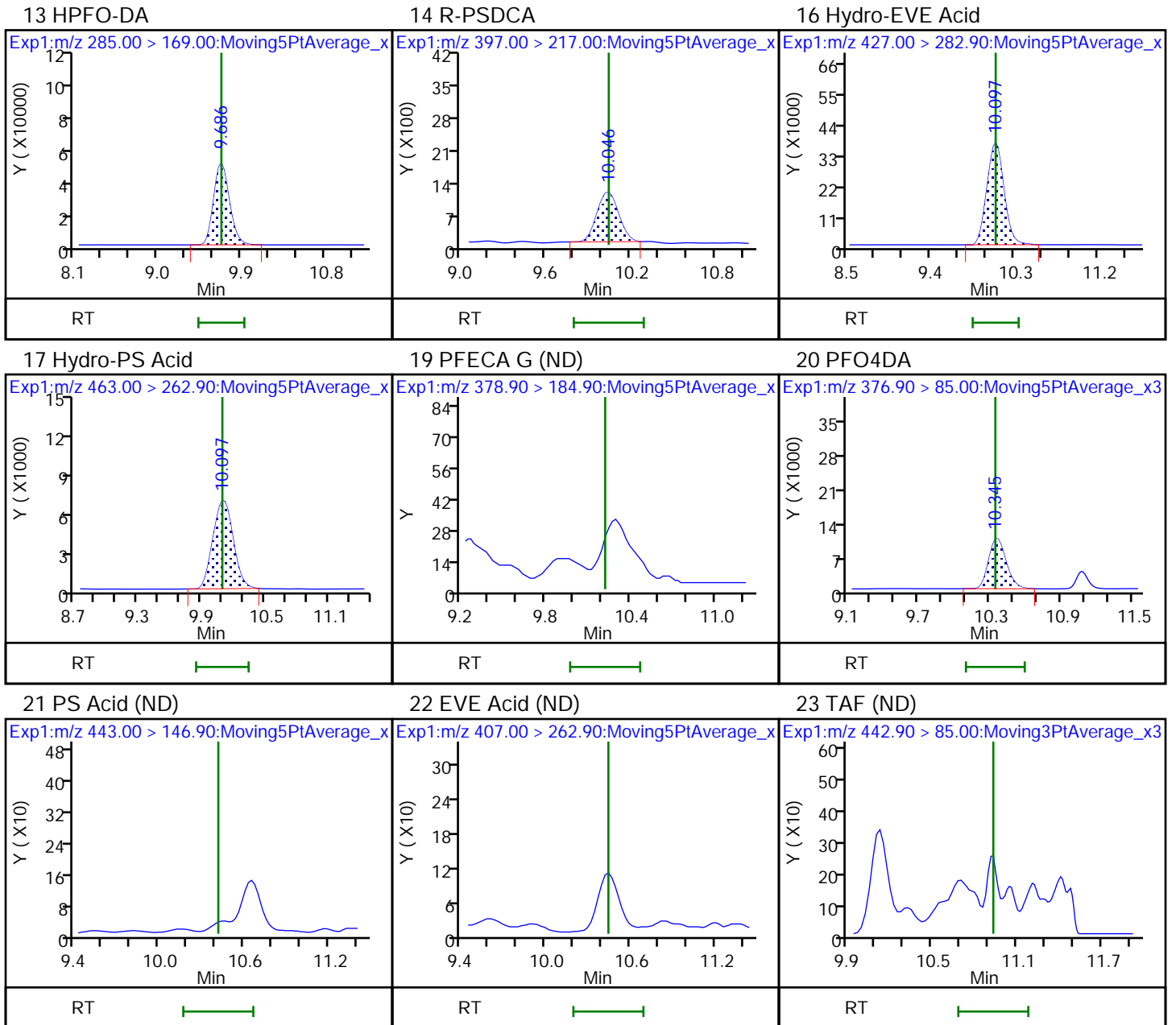
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

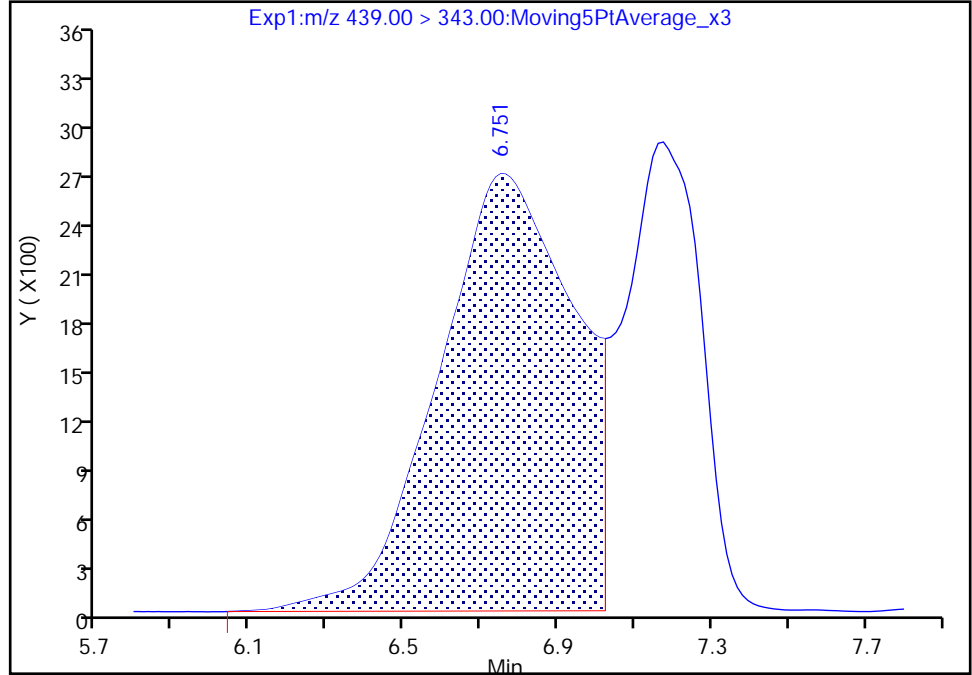
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

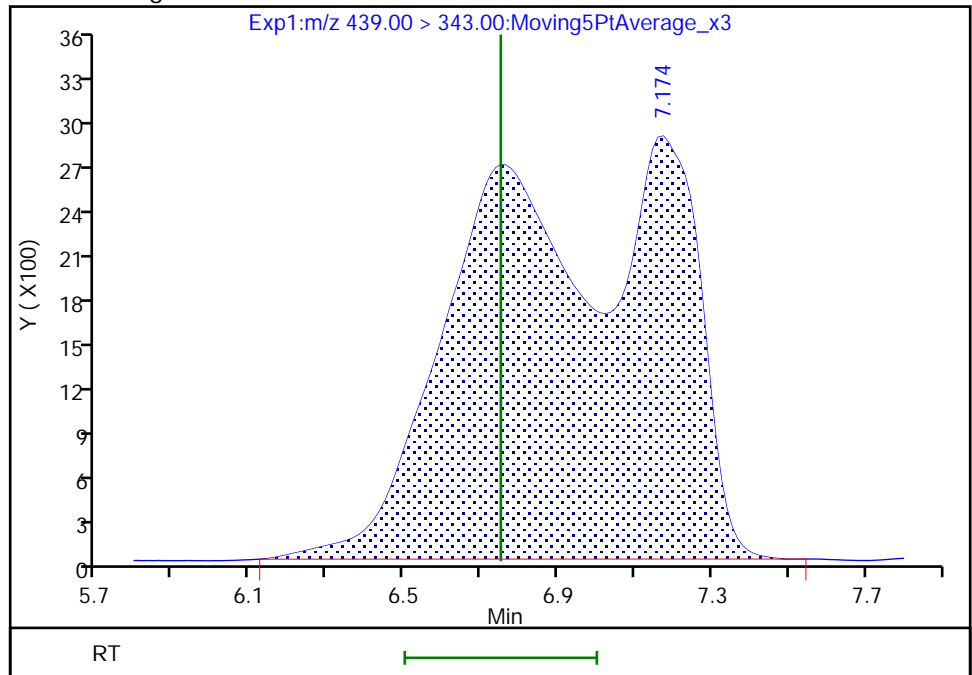
RT: 6.75  
Area: 65560  
Amount: 0.002968  
Amount Units: ng/ml

Processing Integration Results



RT: 7.17  
Area: 104666  
Amount: 0.004739  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

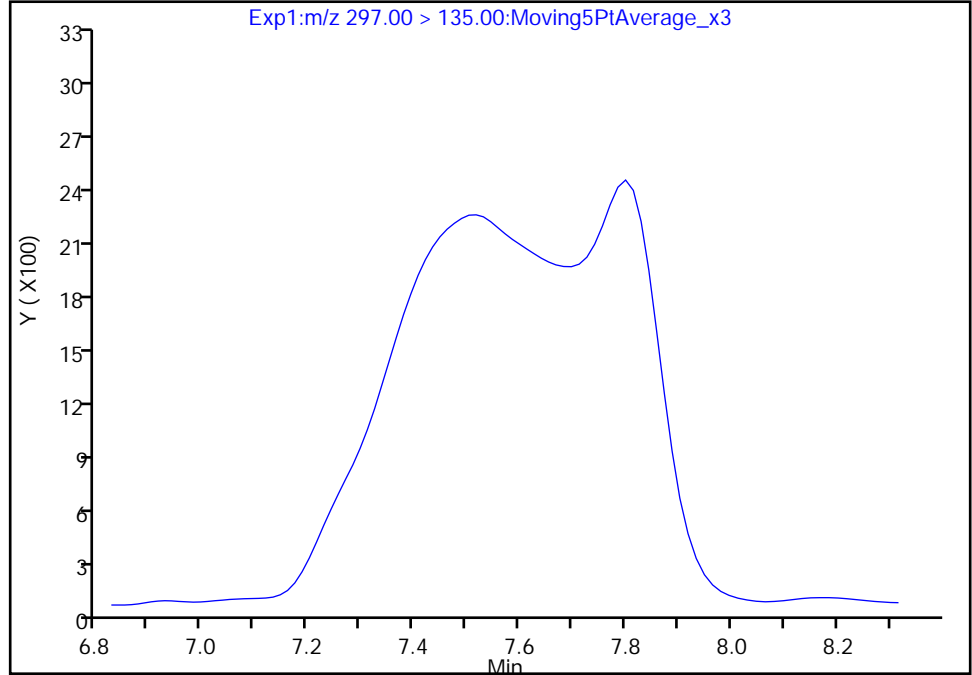
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

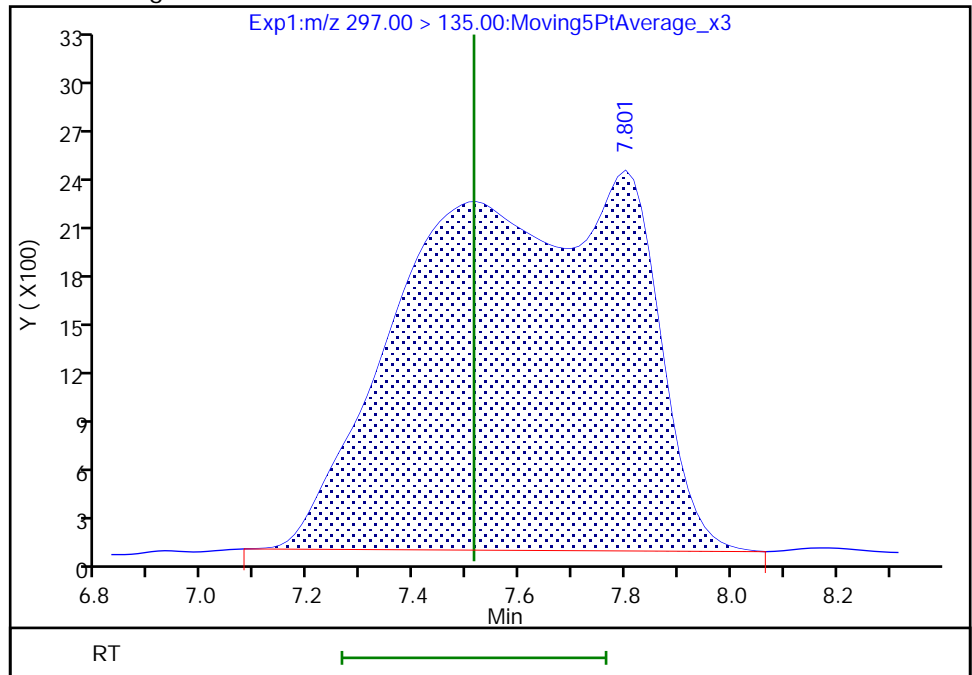
Not Detected  
Expected RT: 7.51

Processing Integration Results



Manual Integration Results

RT: 7.80  
Area: 70899  
Amount: 0.004022  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 01-Feb-2021 05:10:42  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 112 of 345

Eurofins TestAmerica, Sacramento

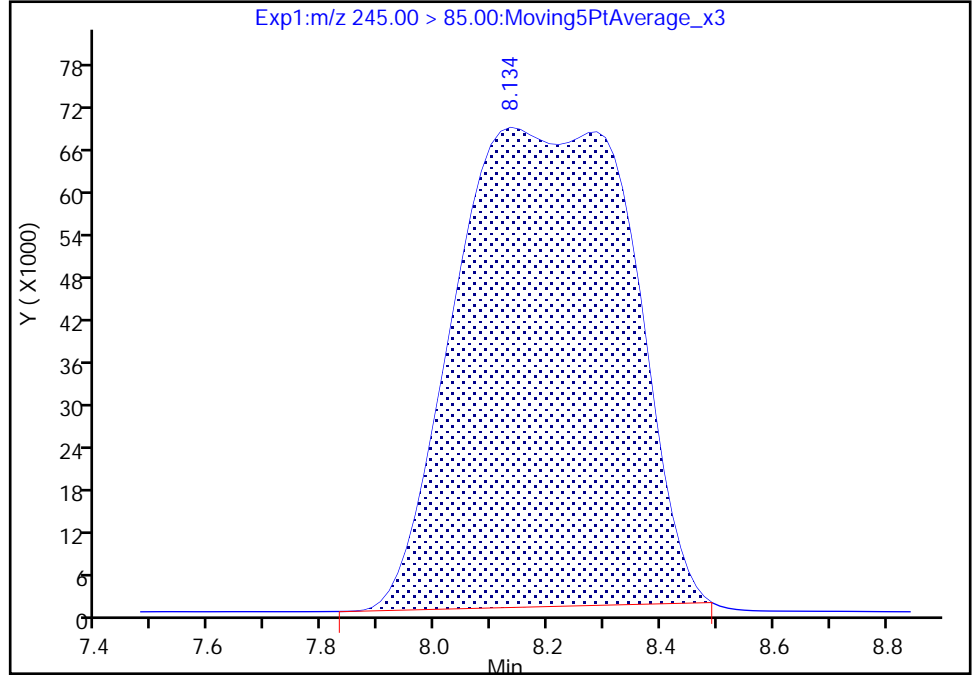
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Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

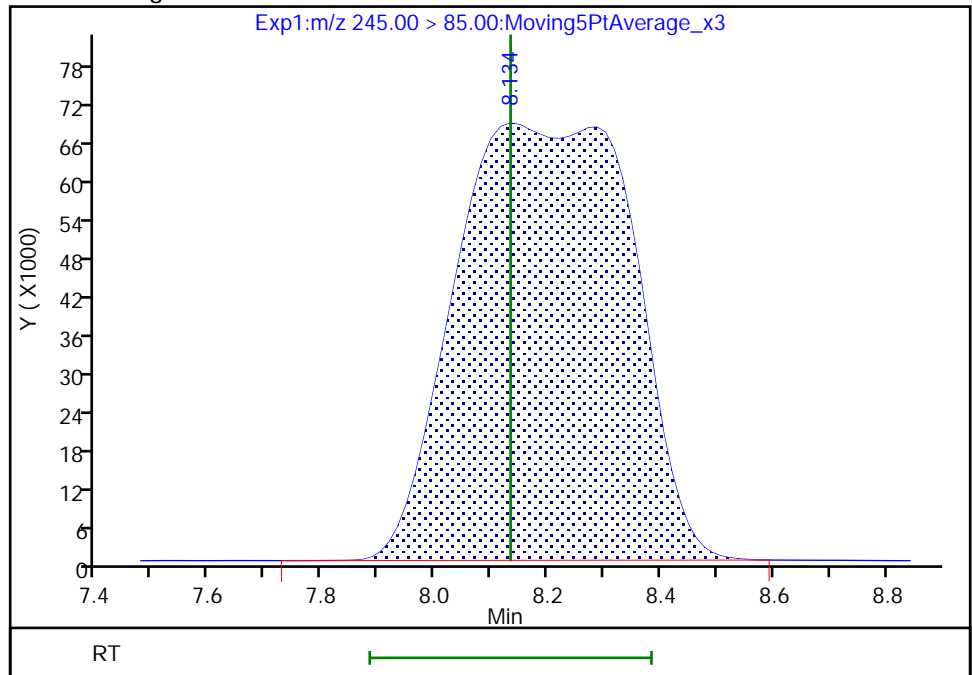
RT: 8.13  
Area: 1496697  
Amount: 0.111708  
Amount Units: ng/ml

Processing Integration Results



RT: 8.13  
Area: 1522538  
Amount: 0.113637  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:10:49

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

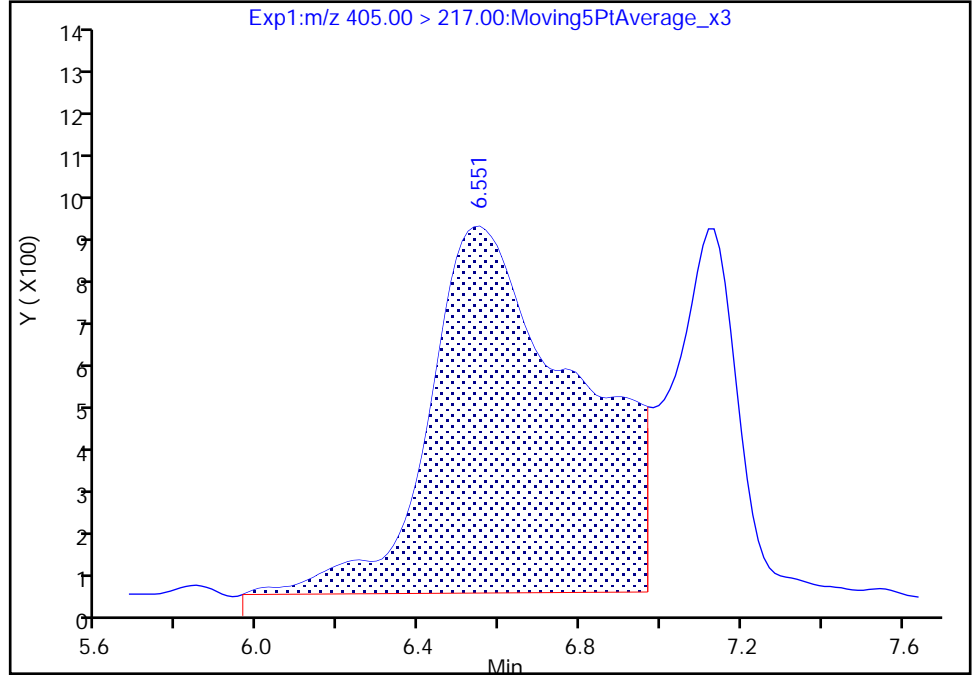
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

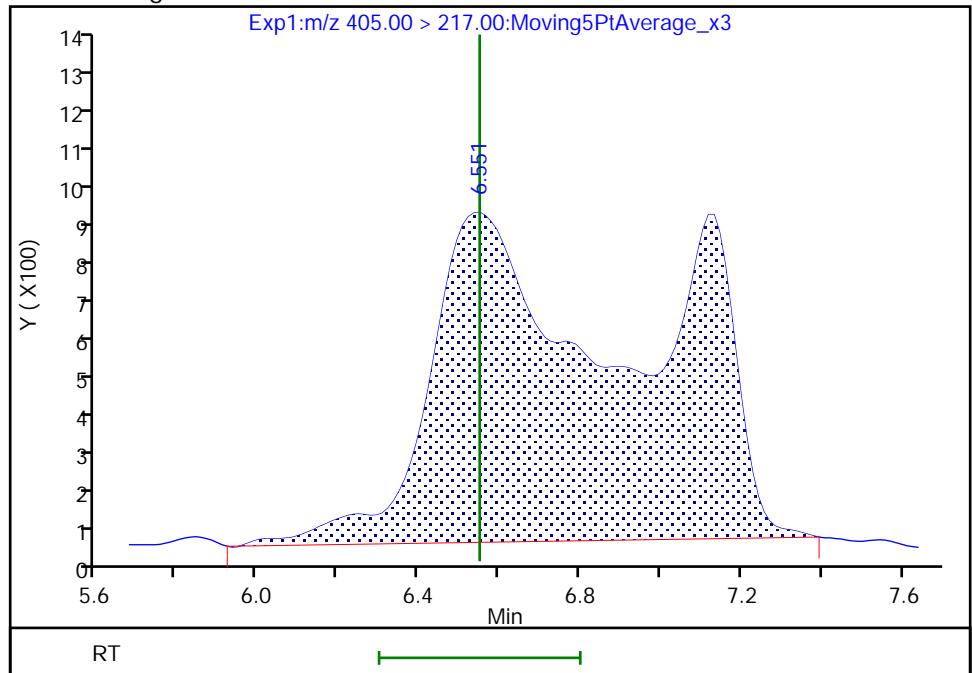
RT: 6.55  
Area: 22020  
Amount: 0.002676  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 31136  
Amount: 0.003784  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:10:27

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

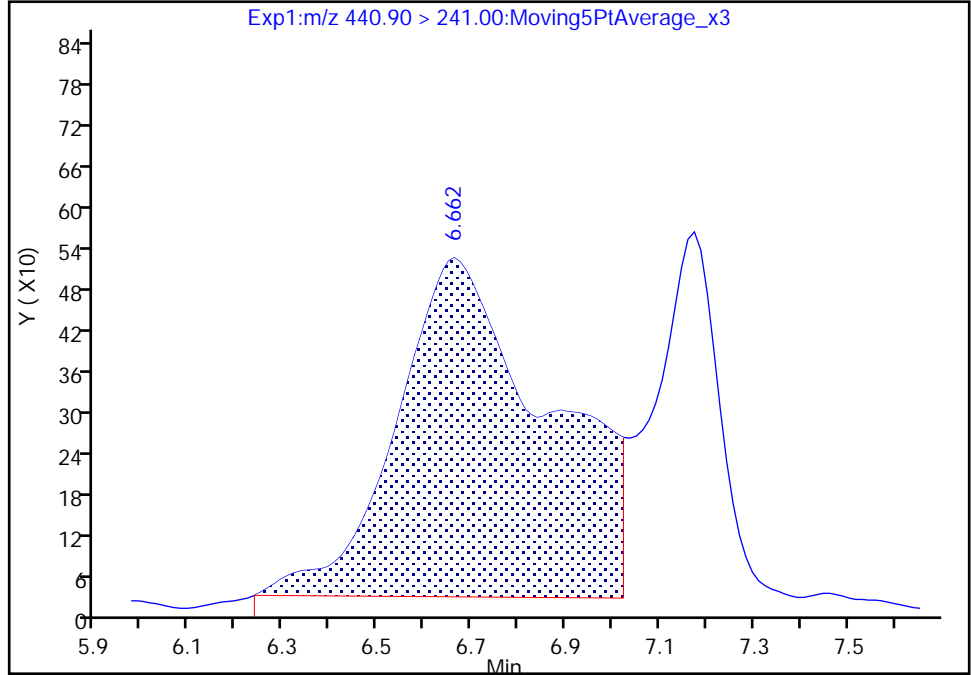
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_005.d  
Injection Date: 31-Jan-2021 00:07:31 Instrument ID: A7\_N  
Lims ID: 320-69350-A-2-A Lab Sample ID: 320-69350-2  
Client ID: SEEP-C-RAIN-EFFLUENT-24-012621  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

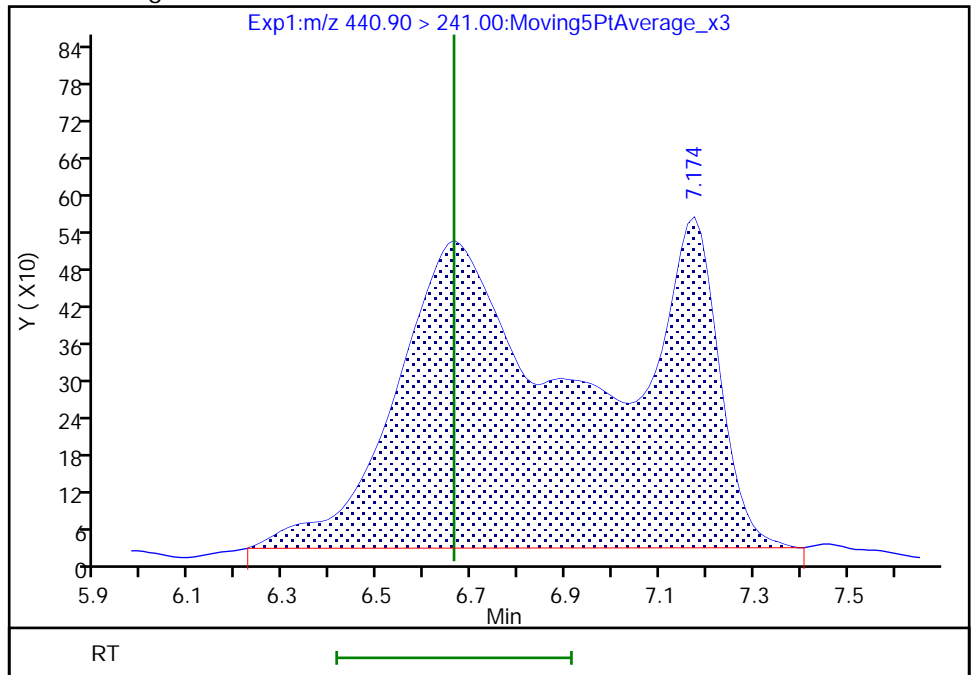
RT: 6.66  
Area: 11180  
Amount: 0.001824  
Amount Units: ng/ml

Processing Integration Results



RT: 7.17  
Area: 16401  
Amount: 0.002676  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:10:32

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-RAIN-EQBLK-012621 Lab Sample ID: 320-69350-3  
 Matrix: Water Lab File ID: 2021.01.29\_TB3\_A\_030.d  
 Analysis Method: Chemours (TB3+) Date Collected: 01/26/2021 15:30  
 Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/29/2021 22:51  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 456828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	83		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_030.d  
 Lims ID: 320-69350-A-3-A  
 Client ID: SEEP-C-RAIN-EQBLK-012621  
 Sample Type: Client  
 Inject. Date: 29-Jan-2021 22:51:40 ALS Bottle#: 30 Worklist Smp#: 24  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69350-a-3-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 06:15:45 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 06:15:59  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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D 12 13C3 HFPO-DA  
 287.00 > 169.00 9.678 9.681 -0.003 1280109 0.2071 82.8 36508

**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_030.d

Injection Date: 29-Jan-2021 22:51:40

Instrument ID: A7\_N

Lims ID: 320-69350-A-3-A

Lab Sample ID: 320-69350-3

Client ID: SEEP-C-RAIN-EQBLK-012621

Operator ID: abservice

ALS Bottle#: 30

Worklist Smp#: 24

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

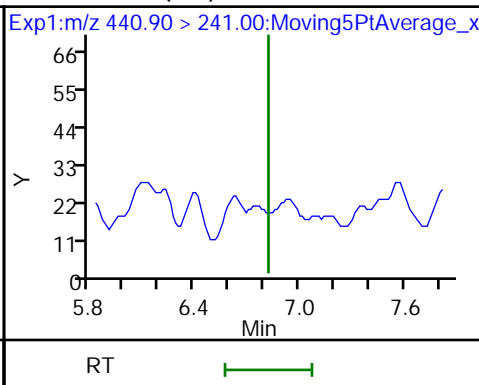
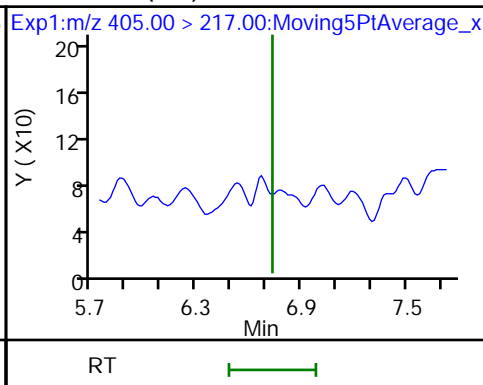
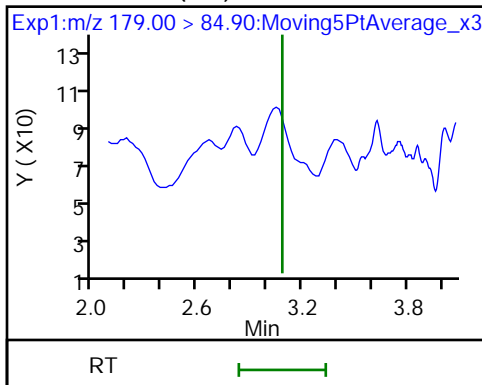
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

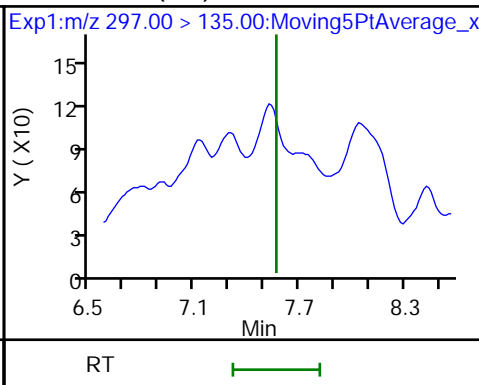
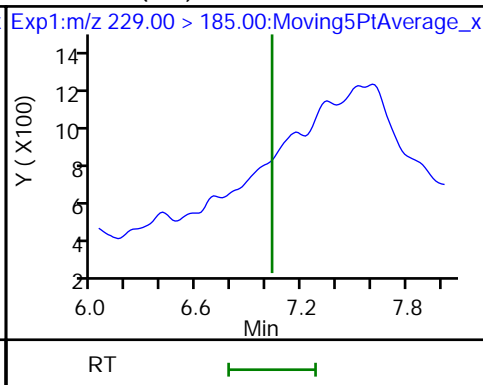
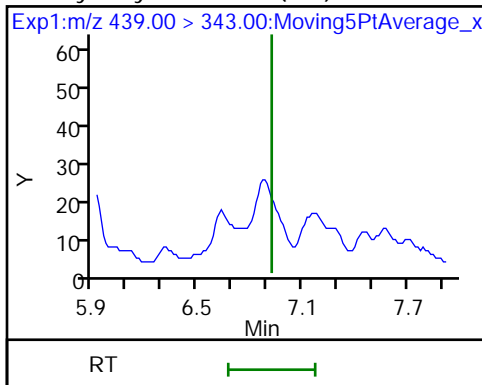
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

5 PMPA (ND)

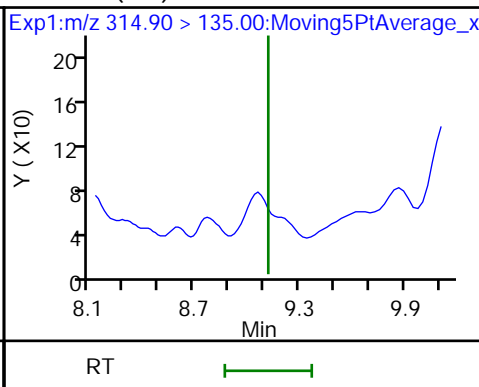
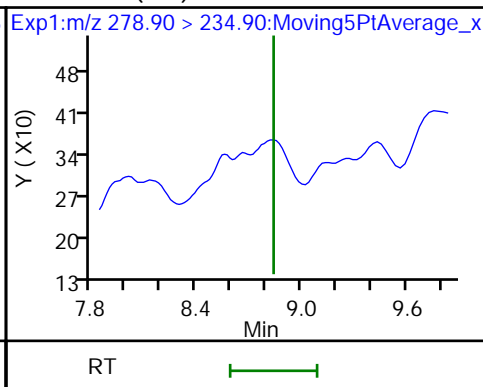
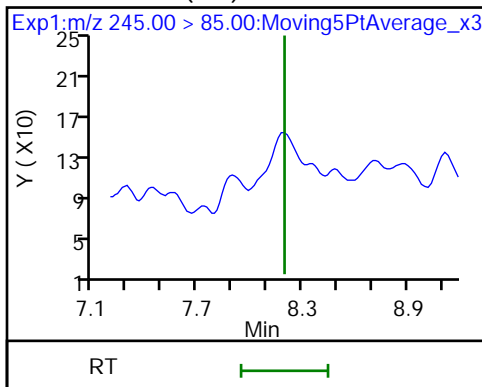
6 NVHOS (ND)



7 PFO2HxA (ND)

8 PEPA (ND)

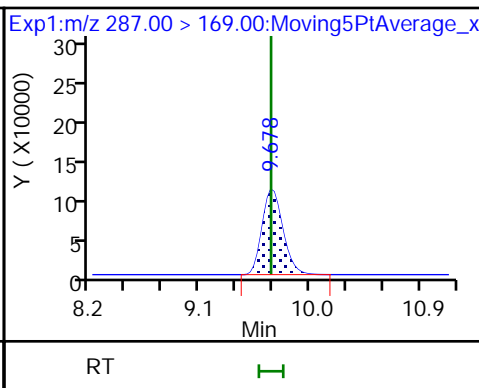
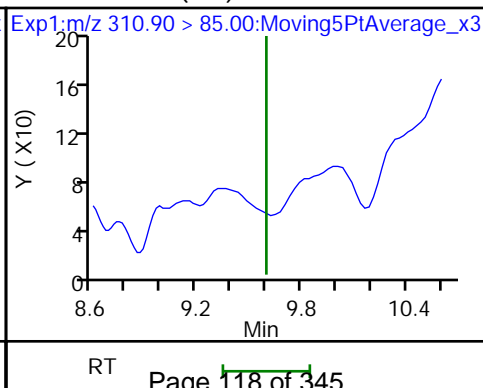
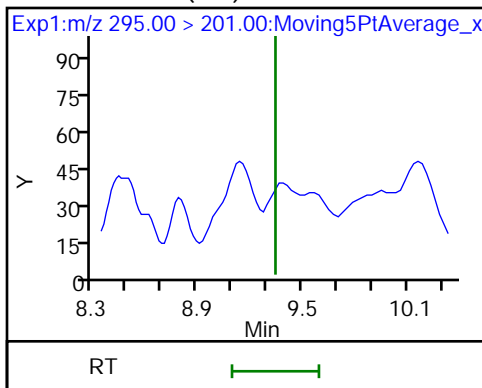
9 PES (ND)

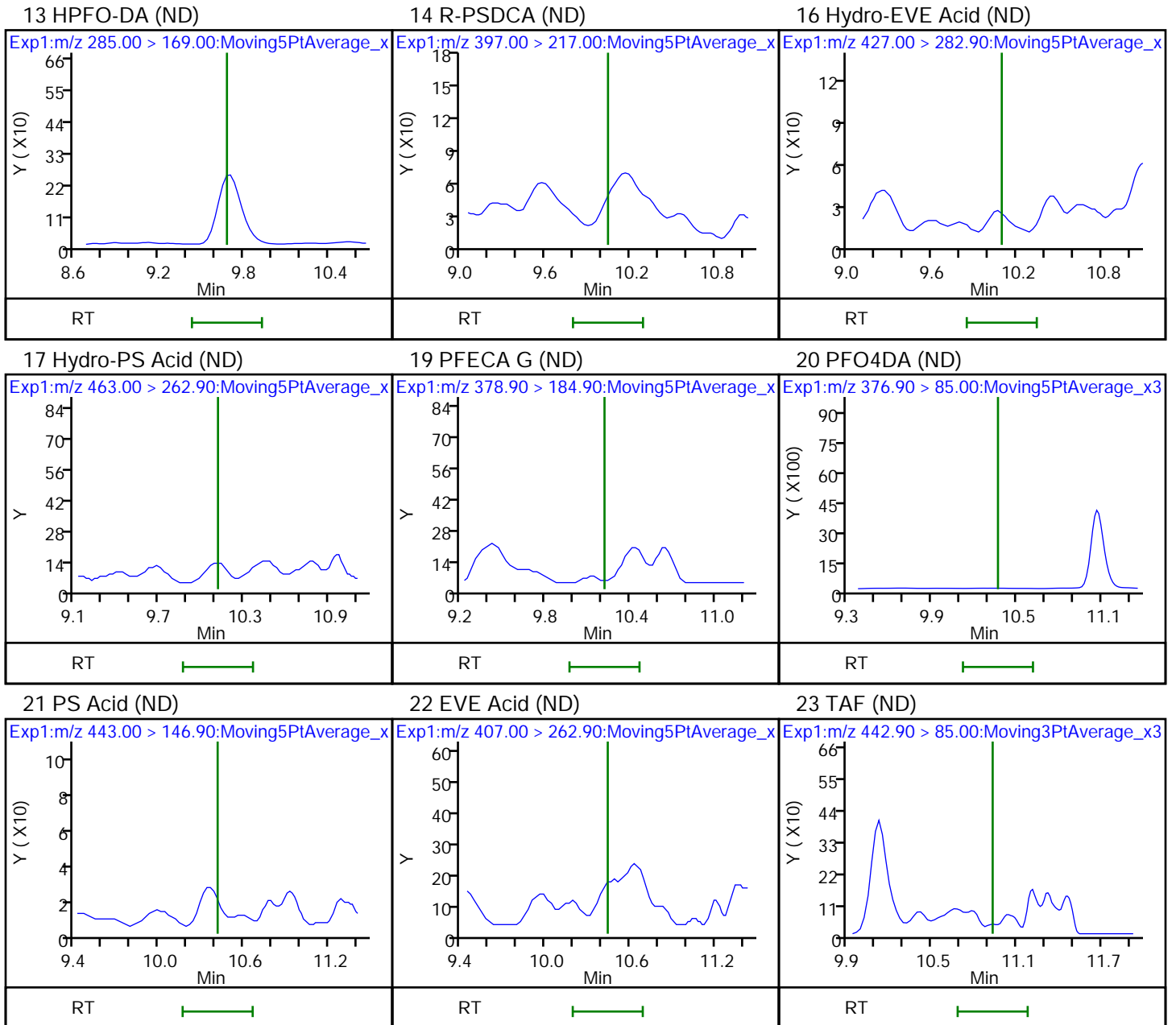


10 PFECA B (ND)

11 PFO3OA (ND)

D 12 13C3 HFPO-DA





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
SDG No.: \_\_\_\_\_  
Client Sample ID: SEEP-C-INFLUENT-138-01182 Lab Sample ID: 320-69350-4  
1  
Matrix: Water Lab File ID: 2021.01.30\_TB3\_B\_010.d  
Analysis Method: Chemours (TB3+) Date Collected: 01/18/2021 08:00  
Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
Sample wt/vol: 2.5(mL) Date Analyzed: 01/31/2021 01:35  
Con. Extract Vol.: 5.0(mL) Dilution Factor: 100  
Injection Volume: 500(uL) GC Column: GeminiC18 3x100 ID: 3(mm)  
% Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
Analysis Batch No.: 457168 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.017		0.017	
13252-13-6	HFPO-DA	14		0.081	
773804-62-9	Hydro-EVE Acid	1.3		0.014	
2416366-19-1	Hydrolyzed PSDA	0.59		0.038	
749836-20-2	Hydro-PS Acid	0.39		0.0061	
1132933-86-8	NVHOS	0.75		0.015	
267239-61-2	PEPA	3.2		0.016	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	64		0.080	
39492-88-1	PFO2HxA	21		0.027	
39492-89-2	PFO3OA	6.4		0.039	
39492-90-5	PFO4DA	2.9		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	8.3		0.62	
29311-67-9	PS Acid	<0.020		0.020	
2416366-22-6	R-EVE	0.74		0.072	
2416366-18-0	R-PSDA	0.50		0.071	
2416366-21-5	R-PSDCA	0.024		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	107		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_010.d  
 Lims ID: 320-69350-A-4-A  
 Client ID: SEEP-C-INFLUENT-138-011821  
 Sample Type: Client  
 Inject. Date: 31-Jan-2021 01:35:19 ALS Bottle#: 10 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 100.0000  
 Sample Info: 320-69350-a-4-a 100X  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:14:07 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 05:14:07

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.312	2.768	0.544		4445737	0.3177			12997	M
2 R-EVE										
405.00 > 217.00	6.885	6.551	0.334		30320	0.003684			598	
3 R-PSDA										
440.90 > 241.00	6.962	6.662	0.300		15212	0.002482			407	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.050	6.751	0.299		65324	0.002958			1373	
5 PMPA										
229.00 > 185.00	7.119	6.968	0.151		458805	0.0413			729	
6 NVHOS										
297.00 > 135.00	7.627	7.514	0.113		66476	0.003771			925	
7 PFO2HxA										
245.00 > 85.00	8.237	8.134	0.103		1439017	0.1074			12153	
8 PEPA										
278.90 > 234.90	8.845	8.827	0.017		115294	0.0158			525	
11 PFO3OA										
310.90 > 85.00	9.585	9.576	0.009		314376	0.0319			3403	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.695	9.686	0.009		16494	0.002668		1.1	491	
13 HPFO-DA										
285.00 > 169.00	9.695	9.686	0.009	1.000	545388	0.0723			15970	
14 R-PSDCA										
397.00 > 217.00	10.053	10.046	0.007		13632	0.000119			317	
16 Hydro-EVE Acid										
427.00 > 282.90	10.105	10.097	0.008		419554	0.006696			8181	
17 Hydro-PS Acid										
463.00 > 262.90	10.105	10.097	0.008		71959	0.001968			1802	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 PFO4DA	376.90 > 85.00	10.363	10.345	0.018	122323	0.0145			2004	

**QC Flag Legend**

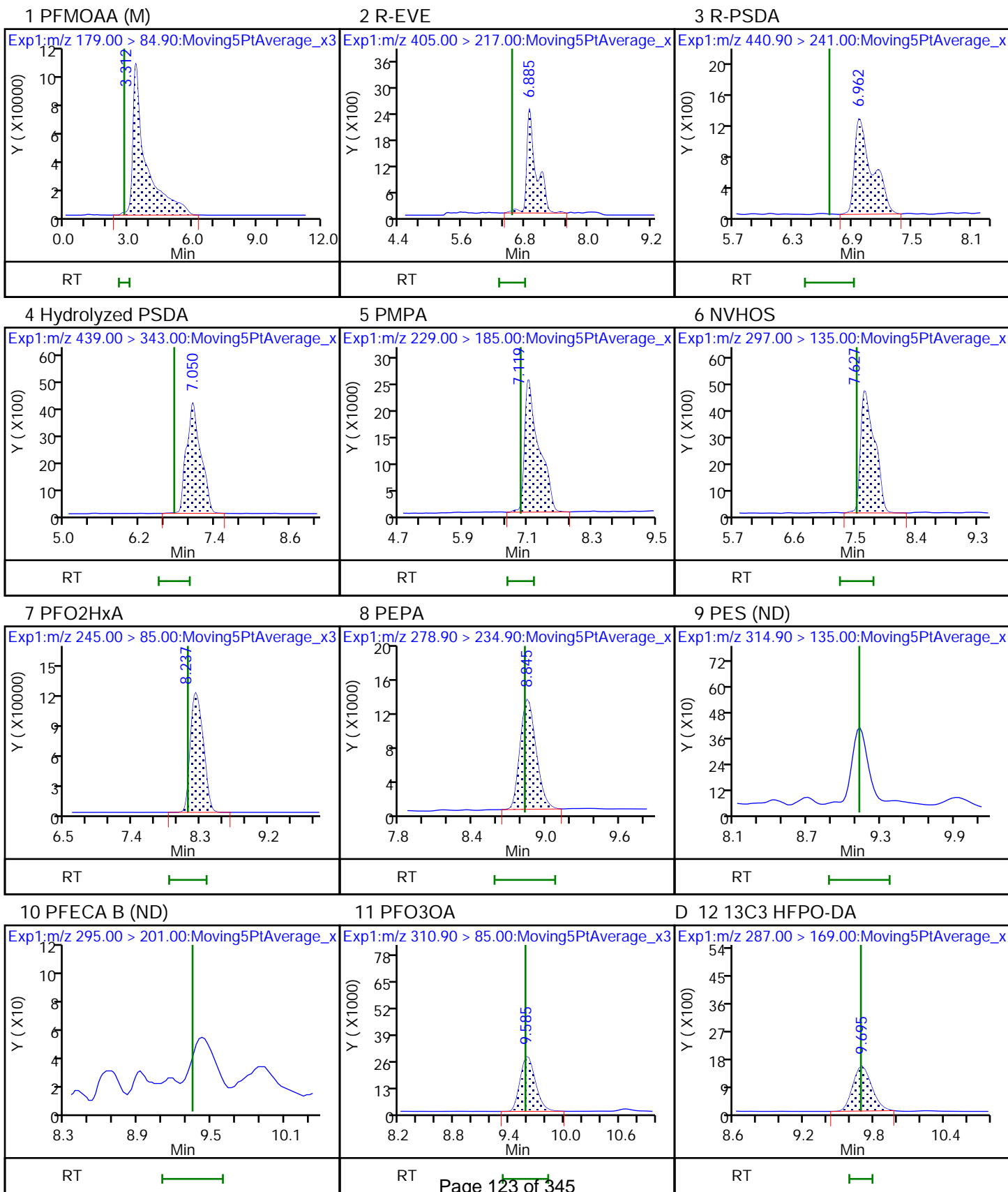
Processing Flags

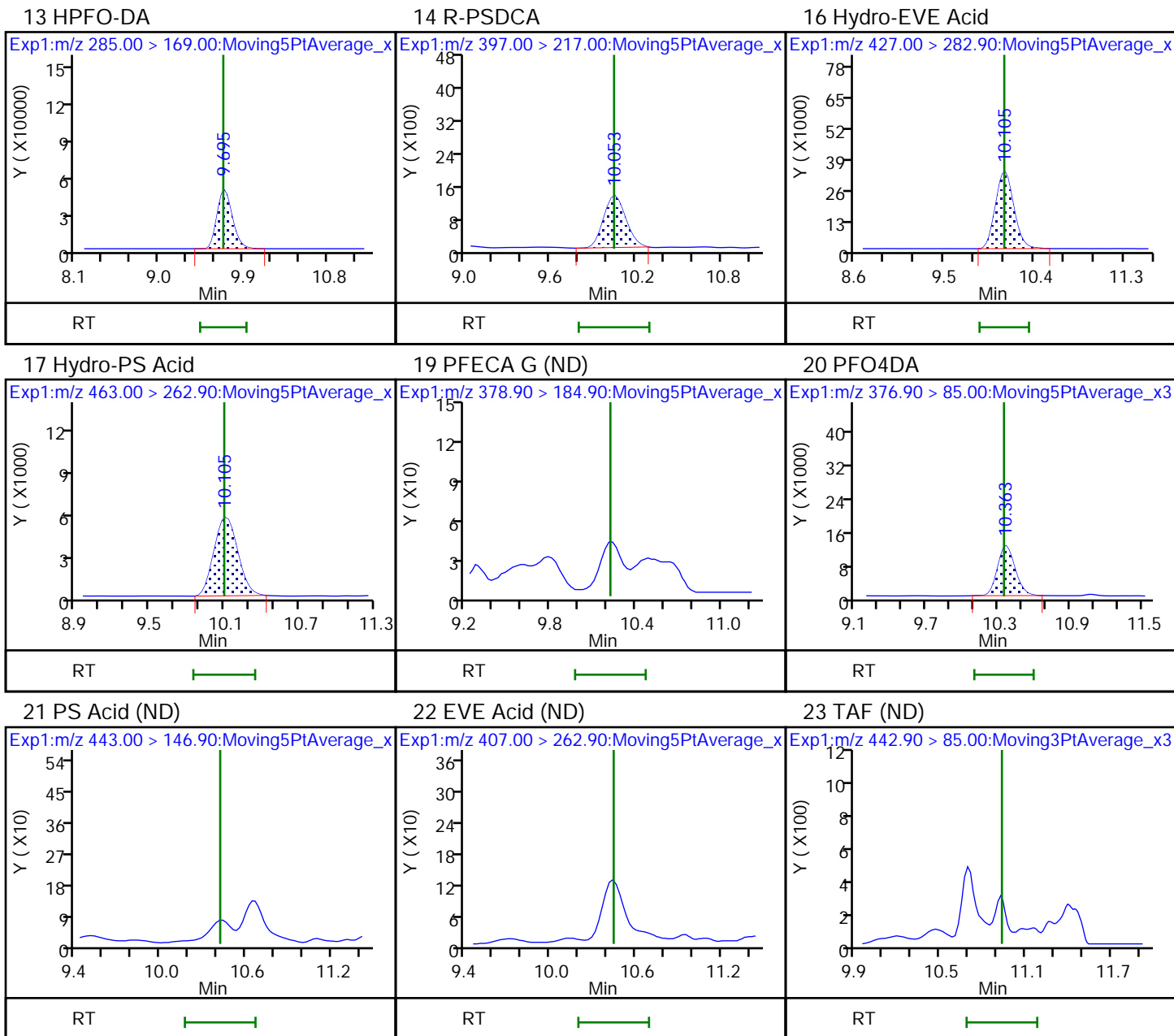
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_010.d  
Injection Date: 31-Jan-2021 01:35:19 Instrument ID: A7\_N  
Lims ID: 320-69350-A-4-A Lab Sample ID: 320-69350-4  
Client ID: SEEP-C-INFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 100.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

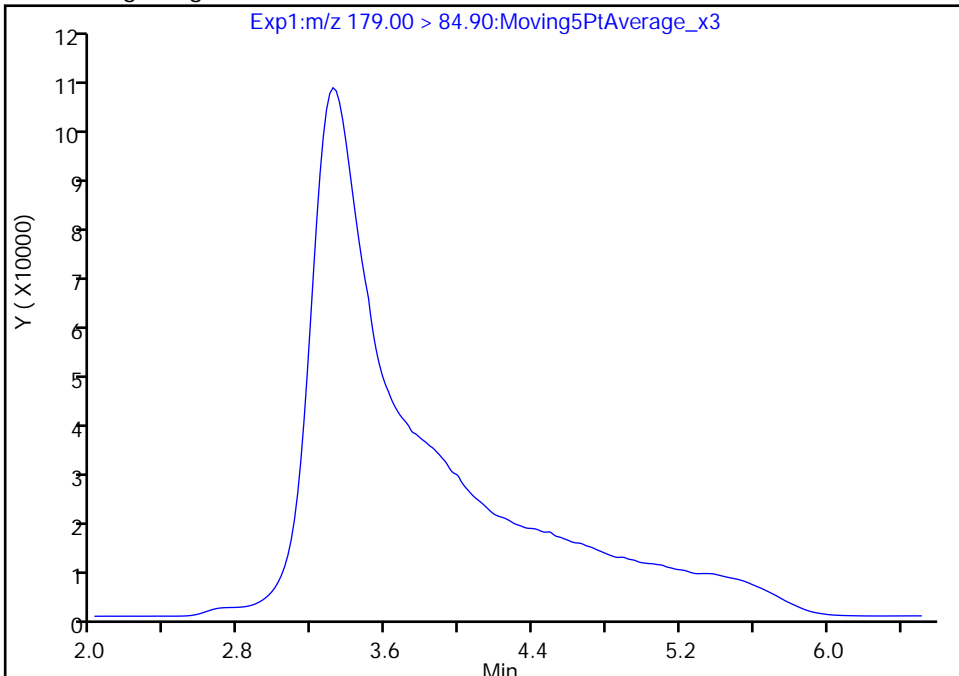
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Injection Date: 31-Jan-2021 01:35:19 Instrument ID: A7\_N  
Lims ID: 320-69350-A-4-A Lab Sample ID: 320-69350-4  
Client ID: SEEP-C-INFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 100.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

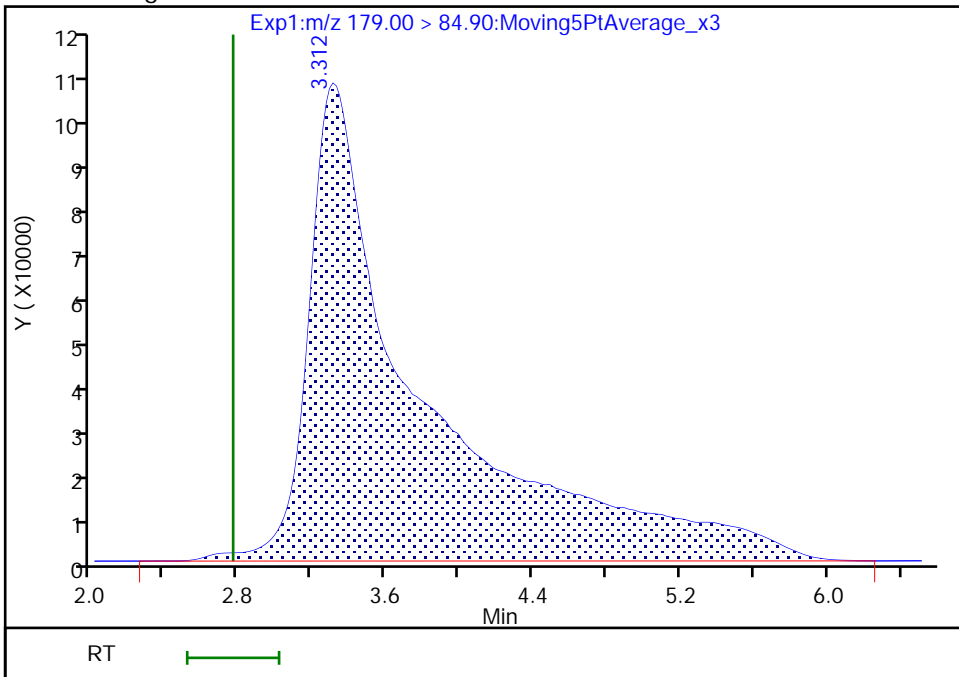
Not Detected  
Expected RT: 2.77

Processing Integration Results



RT: 3.31  
Area: 4445737  
Amount: 0.317661  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:13:50  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
 Lims ID: 320-69350-A-5-A  
 Client ID: SEEP-C-EFFLUENT-138-011821  
 Sample Type: Client  
 Inject. Date: 30-Jan-2021 00:19:33 ALS Bottle#: 35 Worklist Smp#: 29  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69350-a-5-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 06:17:55 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 06:17:55  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.645	3.084	-0.439		793023	0.0567			2017	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.176	6.923	0.253		8223	0.000372			82.0	M
5 PMPA										M
229.00 > 185.00	7.396	7.031	0.365		102247	0.008674			34.9	M
7 PFO2HxA										
245.00 > 85.00	8.307	8.197	0.110		126447	0.009438			792	
8 PEPA										
278.90 > 234.90	8.812	8.840	-0.028		13785	0.001892			45.7	
11 PFO3OA										
310.90 > 85.00	9.587	9.598	-0.011		24982	0.002533			353	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.669	9.681	-0.012		1270687	0.2055		82.2	35644	
13 HPFO-DA										
285.00 > 169.00	9.669	9.681	-0.012	1.000	49433	0.008506			1396	
16 Hydro-EVE Acid										
427.00 > 282.90	10.106	10.092	0.014		31989	0.000511			866	
17 Hydro-PS Acid										M
463.00 > 262.90	10.106	10.117	-0.011		7272	0.000199			178	M
20 PFO4DA										
376.90 > 85.00	10.354	10.365	-0.011		7617	0.000902			57.7	

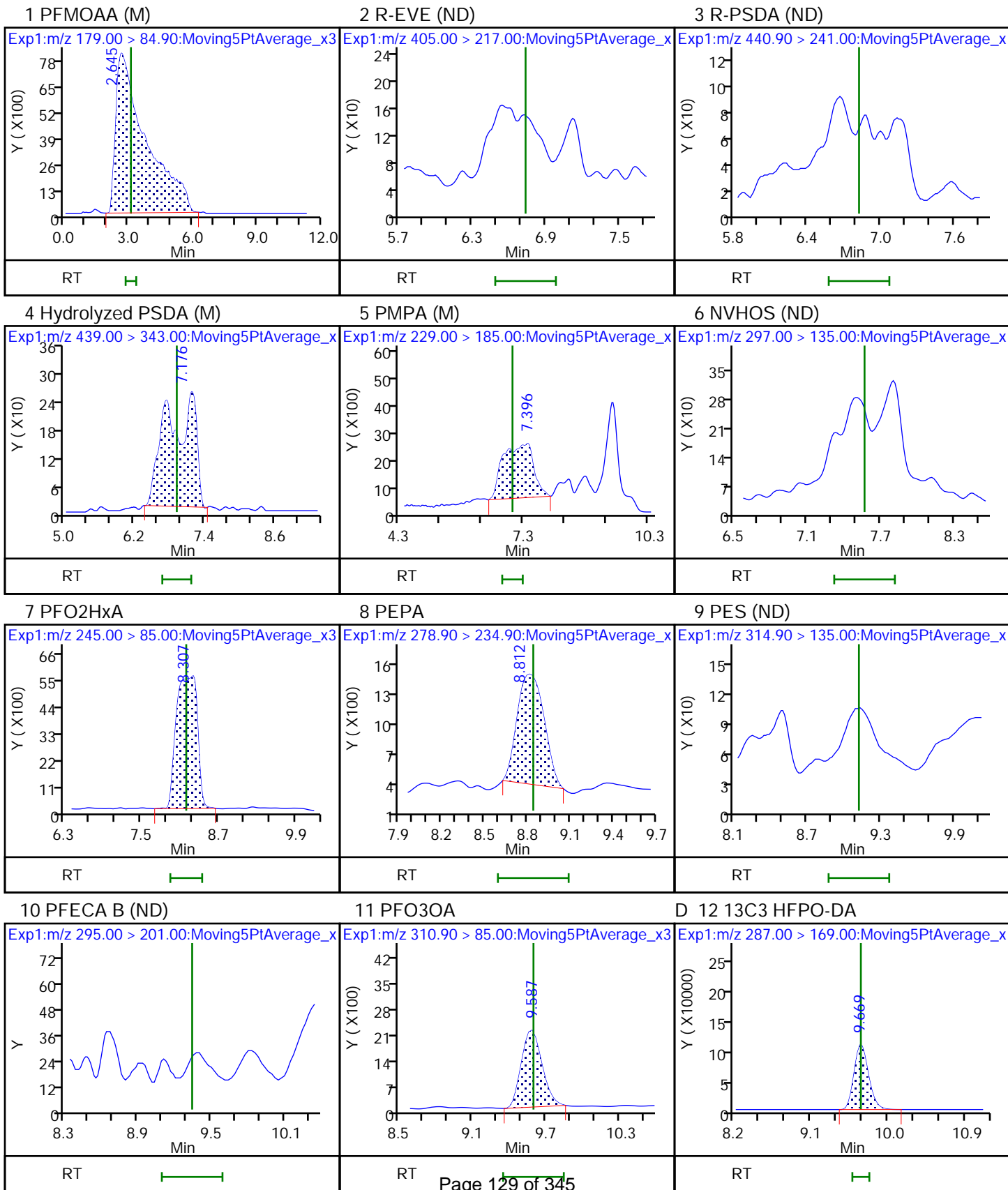
QC Flag Legend  
Processing Flags

Review Flags

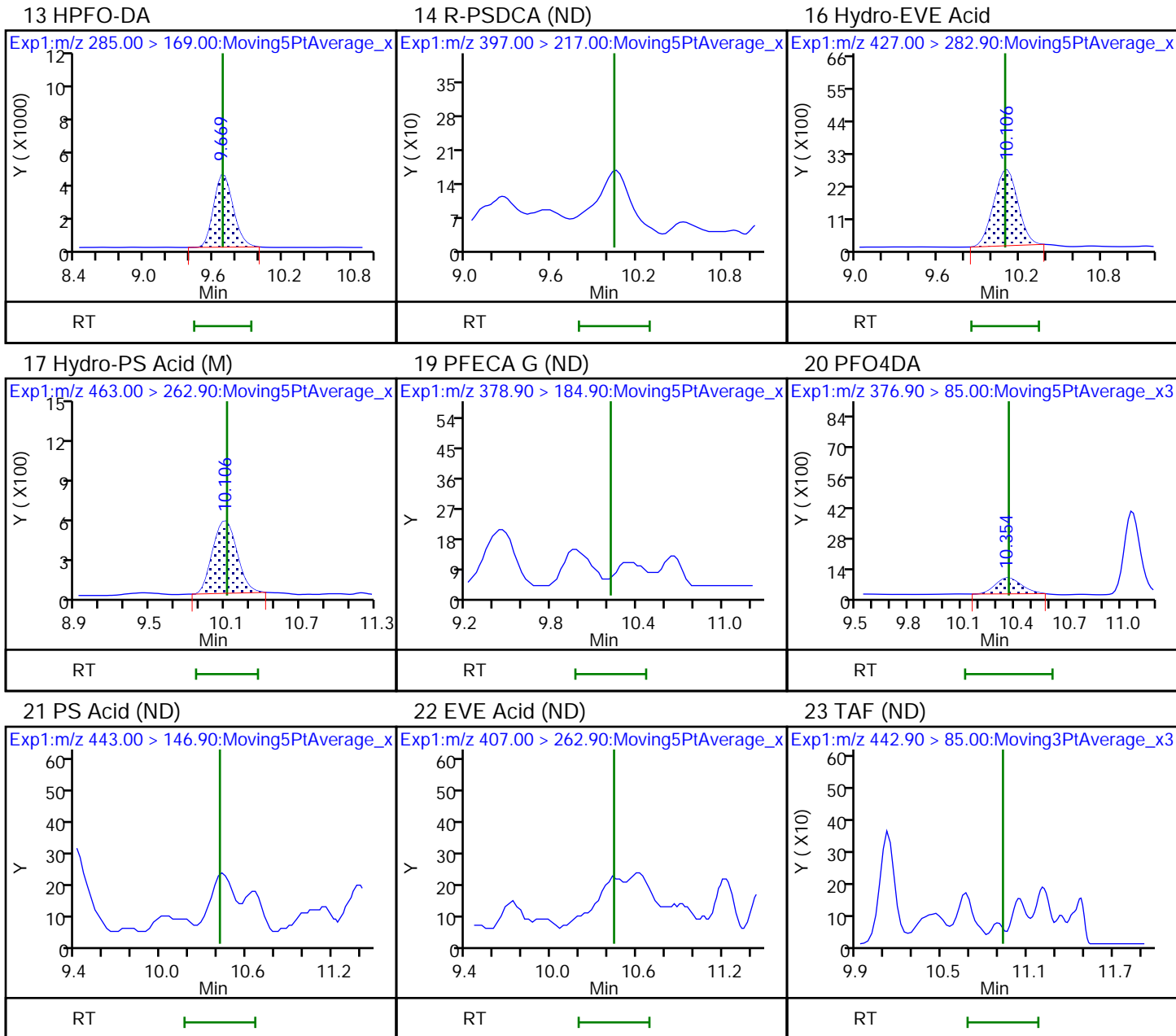
M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
Injection Date: 30-Jan-2021 00:19:33 Instrument ID: A7\_N  
Lims ID: 320-69350-A-5-A Lab Sample ID: 320-69350-5  
Client ID: SEEP-C-EFFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 35 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

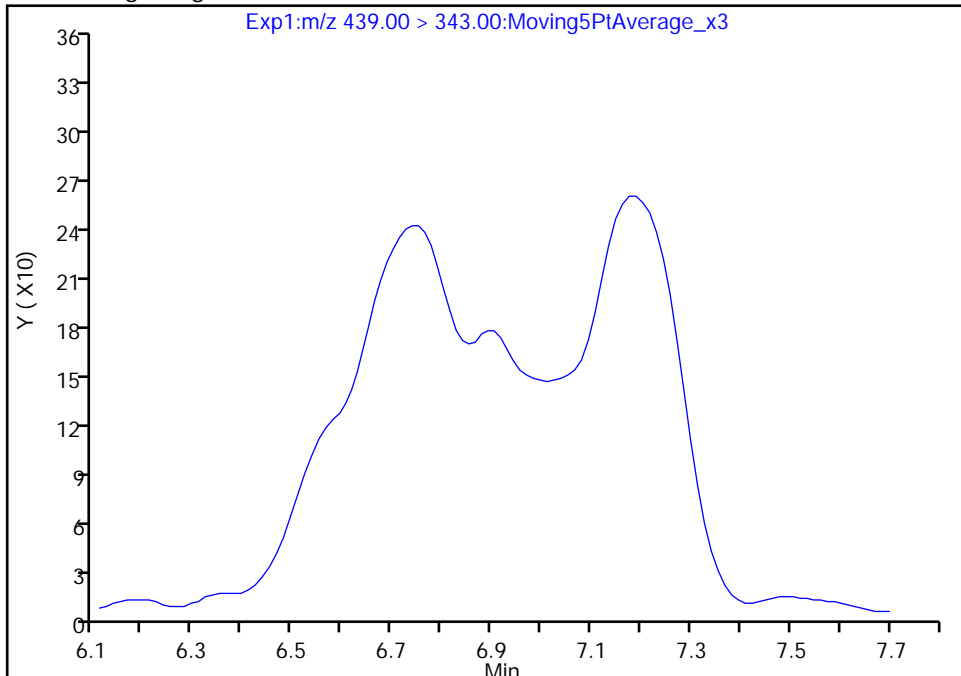
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
Injection Date: 30-Jan-2021 00:19:33 Instrument ID: A7\_N  
Lims ID: 320-69350-A-5-A Lab Sample ID: 320-69350-5  
Client ID: SEEP-C-EFFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 35 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

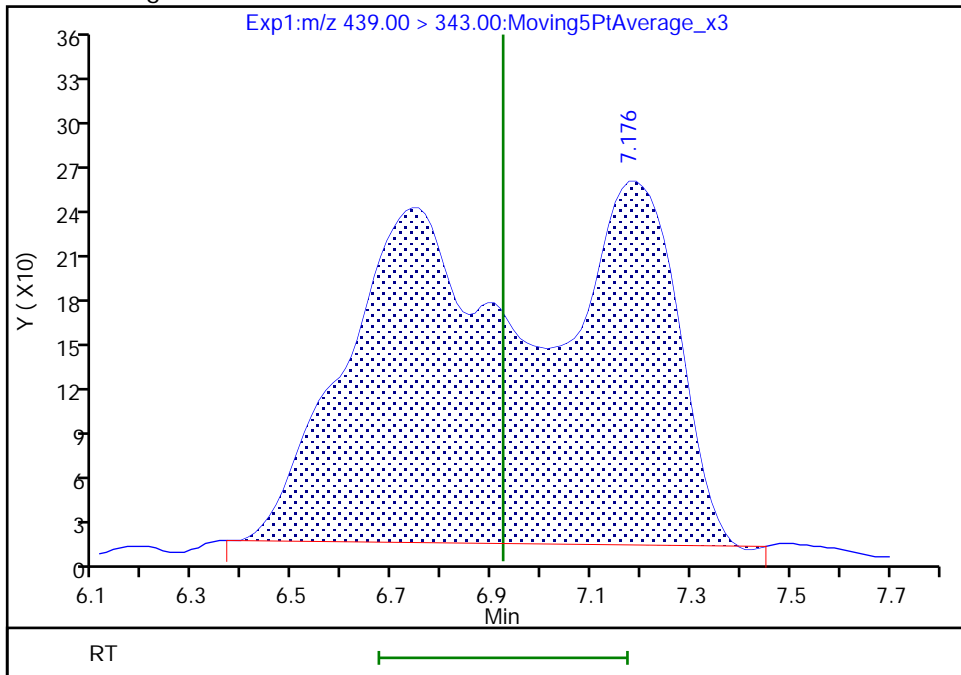
Not Detected  
Expected RT: 6.92

Processing Integration Results



Manual Integration Results

RT: 7.18  
Area: 8223  
Amount: 0.000372  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 01-Feb-2021 06:17:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

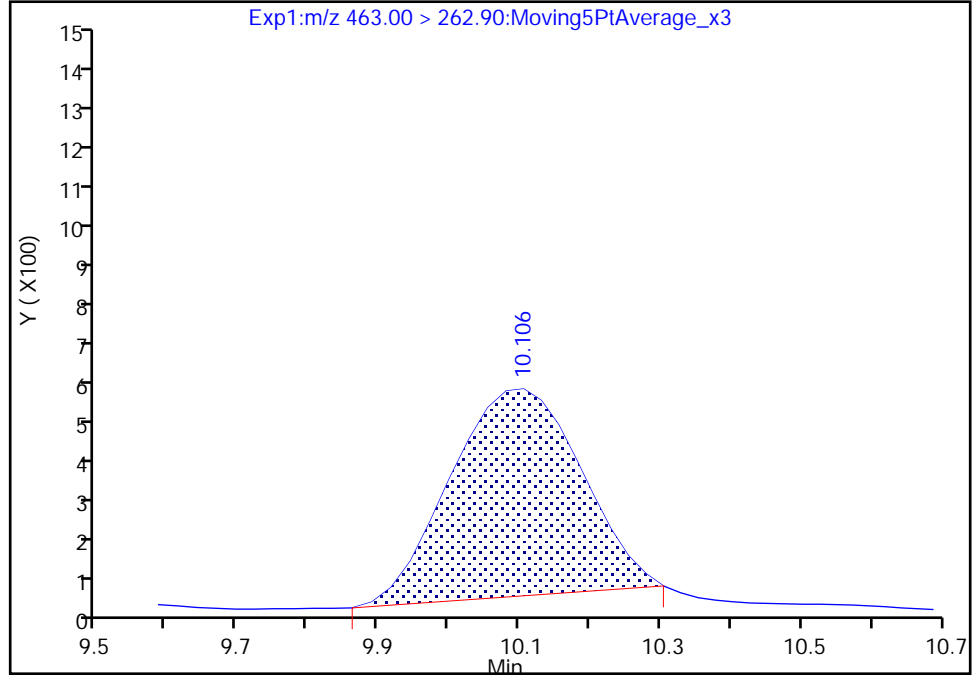
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
Injection Date: 30-Jan-2021 00:19:33 Instrument ID: A7\_N  
Lims ID: 320-69350-A-5-A Lab Sample ID: 320-69350-5  
Client ID: SEEP-C-EFFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 35 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

17 Hydro-PS Acid, CAS: 749836-20-2

Signal: 1

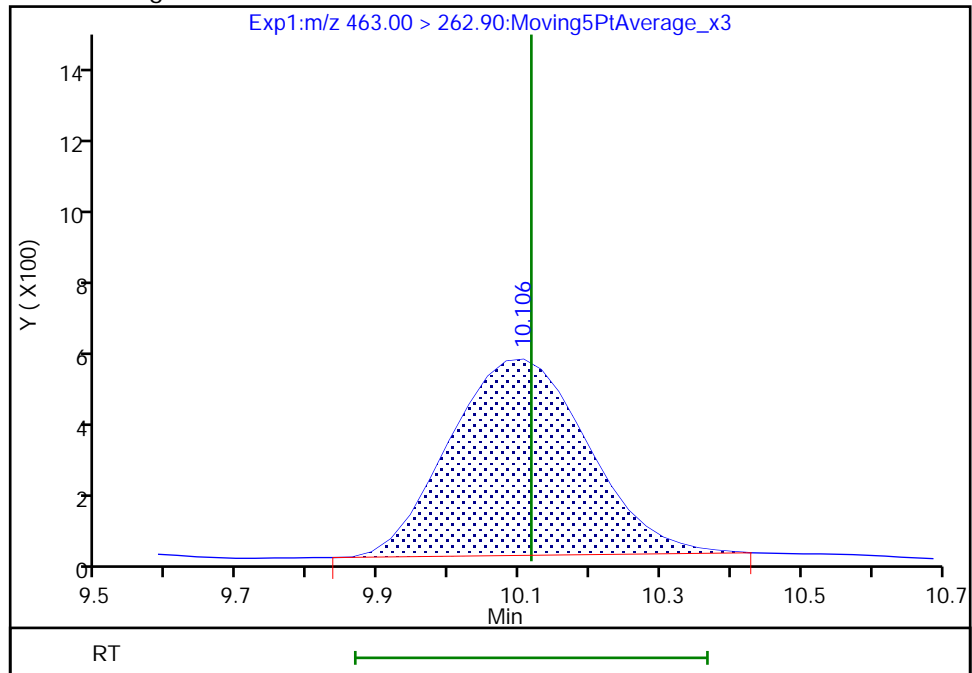
RT: 10.11  
Area: 6561  
Amount: 0.000179  
Amount Units: ng/ml

Processing Integration Results



RT: 10.11  
Area: 7272  
Amount: 0.000199  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 06:17:47

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

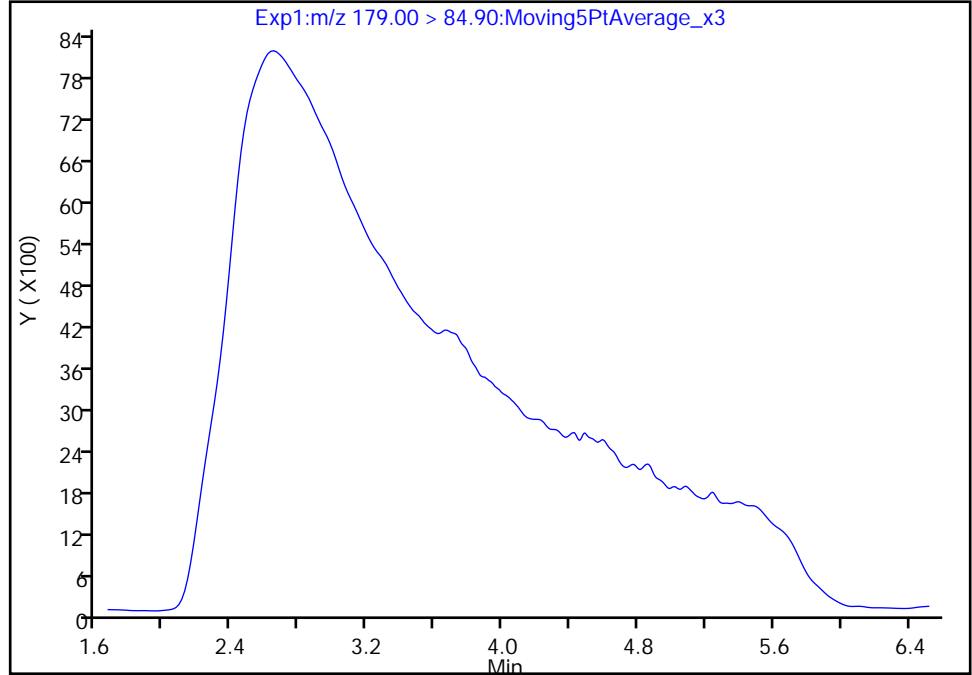
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
Injection Date: 30-Jan-2021 00:19:33 Instrument ID: A7\_N  
Lims ID: 320-69350-A-5-A Lab Sample ID: 320-69350-5  
Client ID: SEEP-C-EFFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 35 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

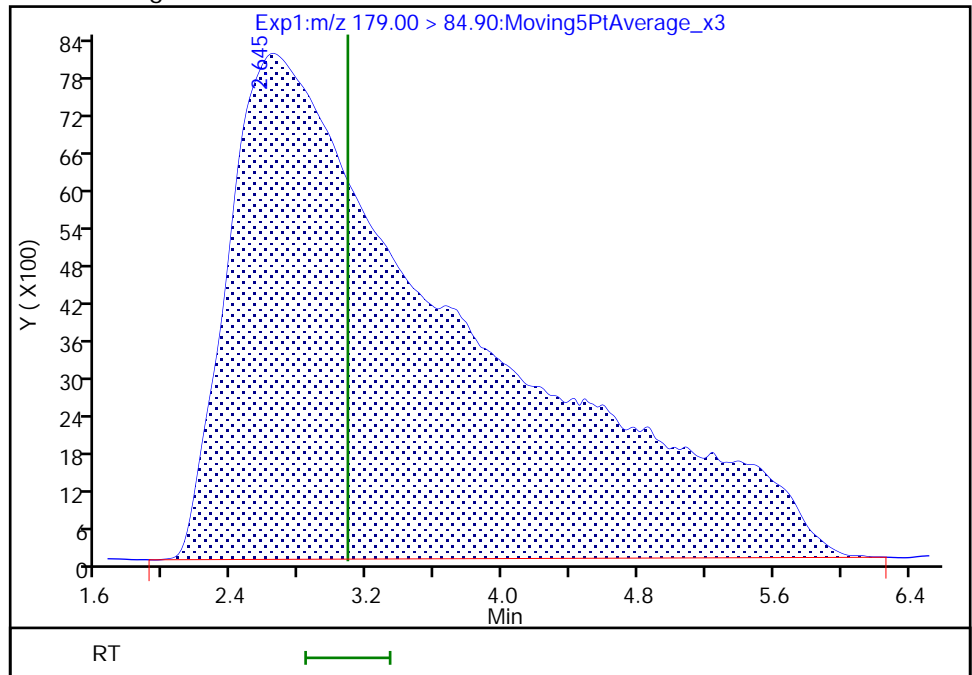
Not Detected  
Expected RT: 3.08

Processing Integration Results



RT: 2.64  
Area: 793023  
Amount: 0.056664  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 06:17:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

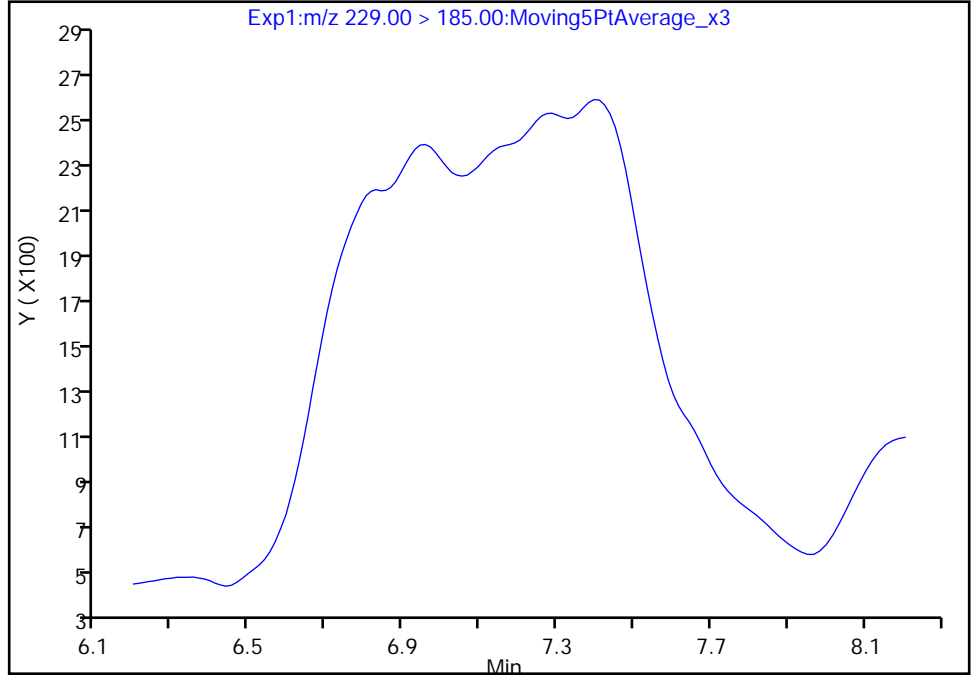
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_035.d  
Injection Date: 30-Jan-2021 00:19:33 Instrument ID: A7\_N  
Lims ID: 320-69350-A-5-A Lab Sample ID: 320-69350-5  
Client ID: SEEP-C-EFFLUENT-138-011821  
Operator ID: abservice ALS Bottle#: 35 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

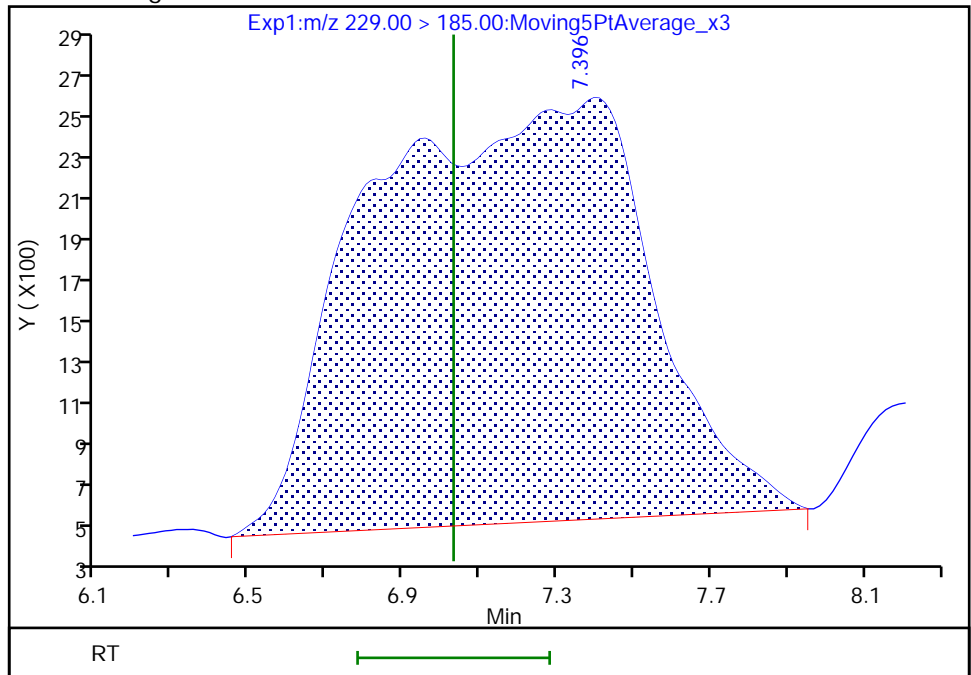
Not Detected  
Expected RT: 7.03

Processing Integration Results



Manual Integration Results

RT: 7.40  
Area: 102247  
Amount: 0.008674  
Amount Units: ng/ml



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-011821 Lab Sample ID: 320-69350-6  
 Matrix: Water Lab File ID: 2021.01.29\_TB3\_A\_036.d  
 Analysis Method: Chemours (TB3+) Date Collected: 01/18/2021 16:00  
 Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/30/2021 00:37  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 456828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_036.d  
 Lims ID: 320-69350-A-6-A  
 Client ID: SEEP-C-FBLK-011821  
 Sample Type: Client  
 Inject. Date: 30-Jan-2021 00:37:08 ALS Bottle#: 36 Worklist Smp#: 30  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69350-a-6-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 06:17:55 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 06:18:19  
 Ratio Calibration: Initial Calibration Level: 1

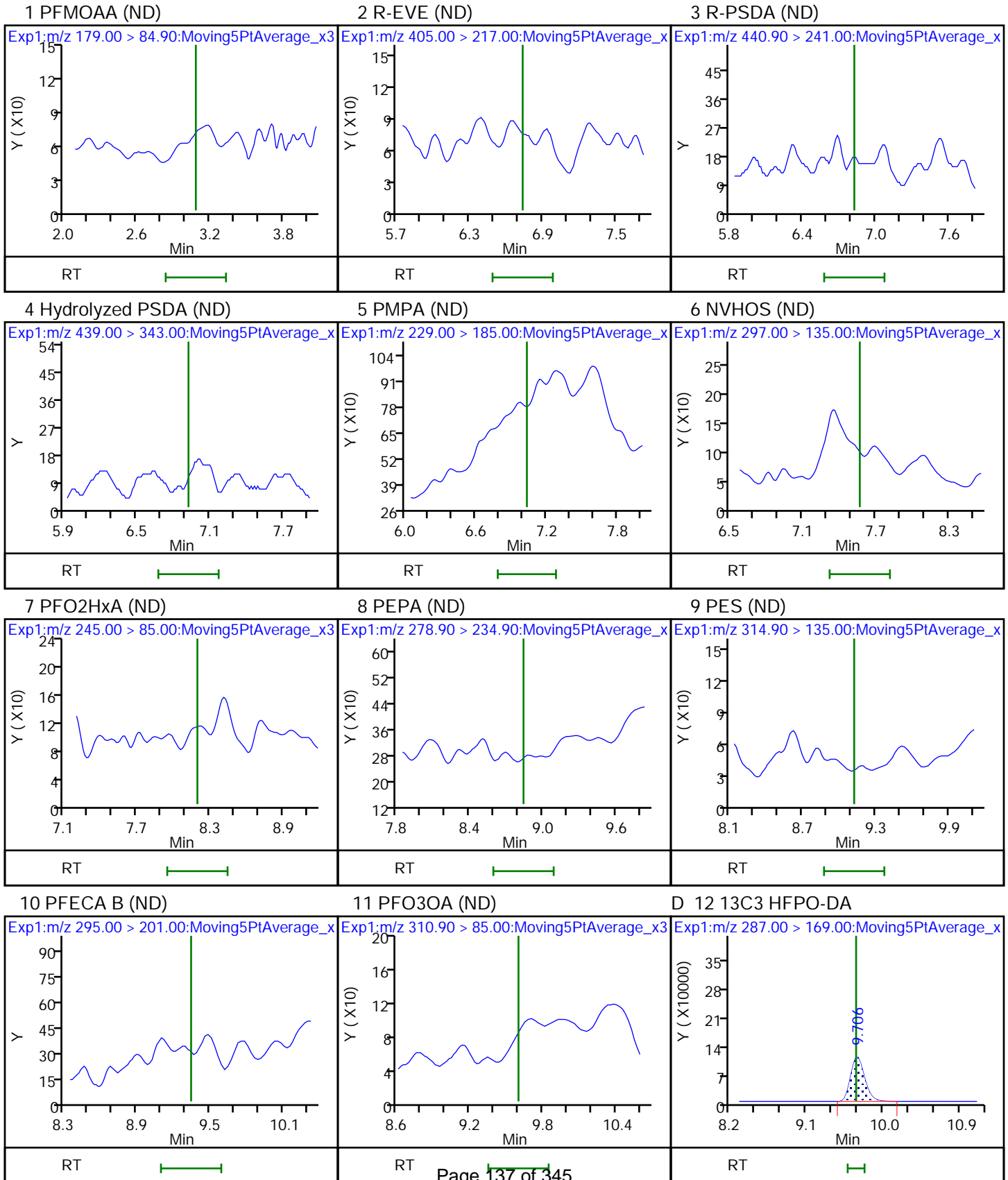
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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D 12 13C3 HFPO-DA  
 287.00 > 169.00 9.706 9.681 0.025 1245430 0.2015 80.6 35904

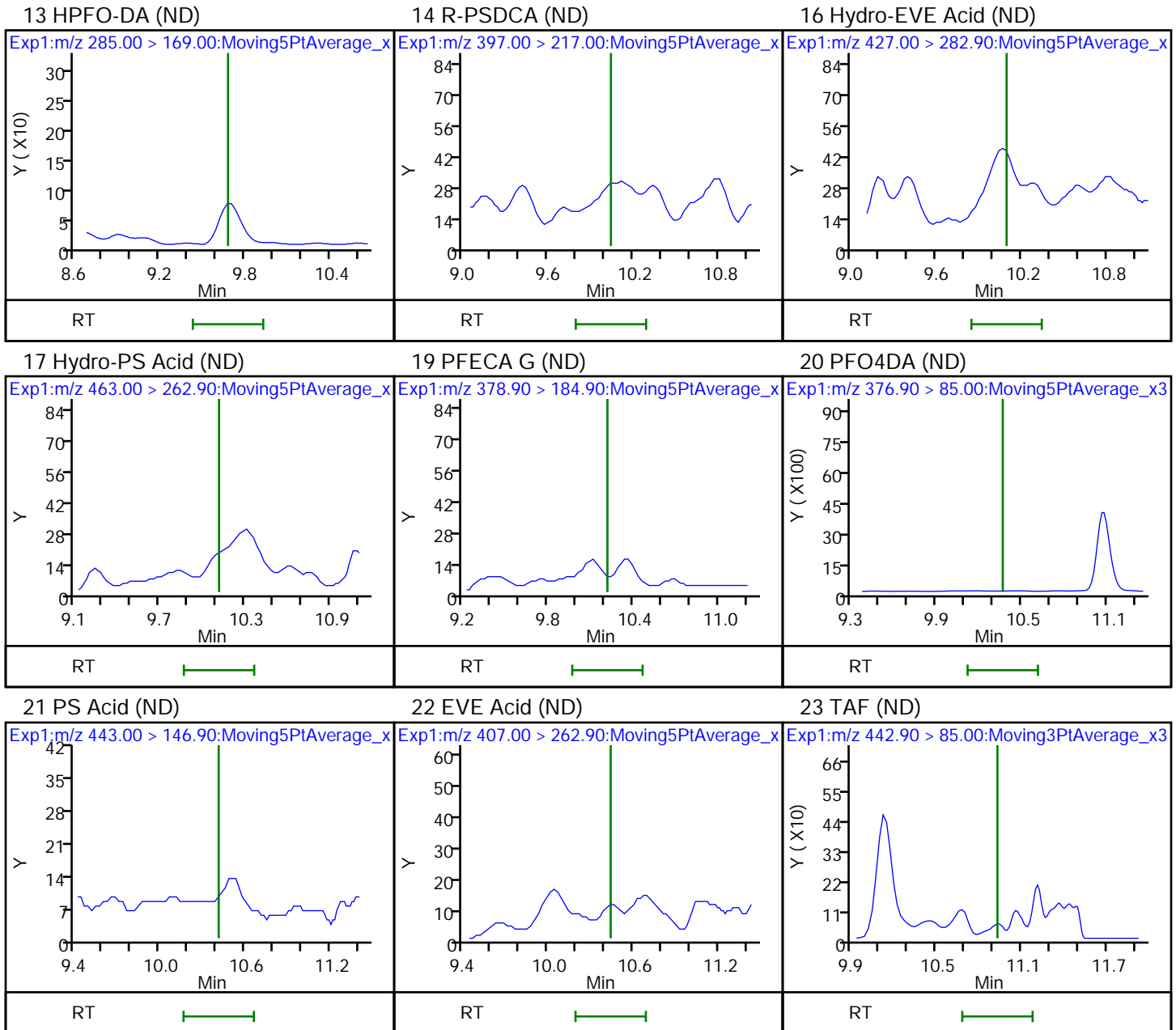
**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_036.d  
Injection Date: 30-Jan-2021 00:37:08 Instrument ID: A7\_N  
Lims ID: 320-69350-A-6-A Lab Sample ID: 320-69350-6  
Client ID: SEEP-C-FBLK-011821  
Operator ID: abservice ALS Bottle#: 36 Worklist Smp#: 30  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL







FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-452203/2	2021.01.15._A7_TB3_A_ICAL_004.d
Level 2	IC 320-452203/3	2021.01.15._A7_TB3_A_ICAL_005.d
Level 3	IC 320-452203/4	2021.01.15._A7_TB3_A_ICAL_006.d
Level 4	IC 320-452203/5	2021.01.15._A7_TB3_A_ICAL_007.d
Level 5	IC 320-452203/6	2021.01.15._A7_TB3_A_ICAL_008.d
Level 6	IC 320-452203/7	2021.01.15._A7_TB3_A_ICAL_009.d
Level 7	IC 320-452203/8	2021.01.15._A7_TB3_A_ICAL_010.d
Level 8	IC 320-452203/9	2021.01.15._A7_TB3_A_ICAL_011.d
Level 9	IC 320-452203/11	2021.01.15._A7_TB3_A_ICAL_013.d
Level 10	IC 320-452203/12	2021.01.15._A7_TB3_A_ICAL_014.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	3.643	+++++	3.595	3.487	3.435	3.452	3.330	3.435	3.454	4.039	3.080 - 3.580	3.541
R-EVE	7.030	+++++	7.003	6.948	6.935	6.935	6.897	6.918	6.934	7.049	6.647 - 7.147	6.961
R-PSDA	7.099	+++++	7.071	7.030	7.017	7.003	6.975	6.999	7.002	7.099	6.725 - 7.225	7.033
Hydrolyzed PSDA	7.181	+++++	7.154	7.113	7.099	7.099	7.058	7.081	7.098	7.181	6.808 - 7.308	7.118
PMPA	7.291	+++++	7.250	7.223	7.209	7.209	7.168	7.191	7.194	7.341	6.918 - 7.418	7.231
NVHOS	7.764	+++++	7.735	7.712	7.706	7.691	7.676	7.687	7.690	7.788	7.426 - 7.926	7.717
PFO2HxA	8.358	+++++	8.342	8.317	8.316	8.296	8.297	8.317	8.299	8.344	8.047 - 8.547	8.321
PEPA	8.964	+++++	8.965	8.932	8.951	8.932	8.917	8.924	8.923	8.950	8.667 - 9.167	8.940
PES	9.235	+++++	9.236	9.222	9.222	9.203	9.206	9.214	9.192	+++++	8.956 - 9.456	9.216
PFECA B	9.459	+++++	9.459	9.442	9.442	9.419	9.426	9.434	9.409	9.441	9.176 - 9.676	9.437
PFO3OA	9.706	+++++	9.706	9.686	9.686	9.659	9.669	9.676	9.675	9.685	9.419 - 9.919	9.683
HFPO-DA	9.816	+++++	9.816	9.797	9.796	9.769	9.779	9.787	9.758	9.768	9.529 - 10.029	9.787
R-PSDCA	10.164	+++++	10.164	10.147	10.147	10.123	10.133	10.121	+++++	+++++	9.883 - 10.383	10.143
Hydro-EVE Acid	10.214	+++++	10.214	10.197	10.196	10.172	10.159	10.178	10.148	10.159	9.909 - 10.409	10.182
Perfluoroheptanoic acid	10.239	+++++	10.214	10.197	10.196	10.172	10.185	10.178	10.176	10.188	9.935 - 10.435	10.194
Hydro-PS Acid	10.239	+++++	10.239	10.222	10.221	10.197	10.185	10.207	10.176	10.188	9.935 - 10.435	10.208
PFECA G	10.338	+++++	10.338	10.321	10.320	10.296	10.290	10.318	10.290	+++++	10.040 - 10.540	10.314
PFO4DA	10.487	+++++	10.487	10.470	10.469	10.445	10.440	10.449	10.432	10.444	10.190 - 10.690	10.458
PS Acid	10.559	+++++	10.559	10.542	10.542	10.519	10.514	10.525	10.516	10.528	10.264 - 10.764	10.534
EVE Acid	10.582	+++++	10.559	10.542	10.542	10.519	10.514	10.525	10.516	+++++	10.264 - 10.764	10.537
PFO5DA	11.087	+++++	11.072	11.052	11.038	11.024	11.018	11.047	11.025	11.037	10.768 - 11.268	11.044
13C3 HFPO-DA	9.816	+++++	9.816	9.797	9.796	9.769	9.779	9.787	9.758	9.768	9.679 - 9.879	9.787
13C4 PFHpA	10.239	+++++	10.214	10.197	10.196	10.172	10.185	10.178	10.176	10.188	10.085 - 10.285	10.194

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-452203/2	2021.01.15._A7_TB3_A_ICAL_004.d
Level 2	IC 320-452203/3	2021.01.15._A7_TB3_A_ICAL_005.d
Level 3	IC 320-452203/4	2021.01.15._A7_TB3_A_ICAL_006.d
Level 4	IC 320-452203/5	2021.01.15._A7_TB3_A_ICAL_007.d
Level 5	IC 320-452203/6	2021.01.15._A7_TB3_A_ICAL_008.d
Level 6	IC 320-452203/7	2021.01.15._A7_TB3_A_ICAL_009.d
Level 7	IC 320-452203/8	2021.01.15._A7_TB3_A_ICAL_010.d
Level 8	IC 320-452203/9	2021.01.15._A7_TB3_A_ICAL_011.d
Level 9	IC 320-452203/11	2021.01.15._A7_TB3_A_ICAL_013.d
Level 10	IC 320-452203/12	2021.01.15._A7_TB3_A_ICAL_014.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	16127000 13118760 13777304	++++ 14150640 13450571	14127800 14208030	13190900 13805868	Ave		13995208.1			6.4		50.0				
R-EVE	8891000 7659160 8446948	++++ 8295980 9028160	7355400 7941100	7841000 8603928	Ave		8229186.22			6.9		50.0				
R-PSDA	7635000 5205160 6250190	++++ 4991380 7014889	6033800 5687160	5740500 6600516	Ave		6128732.78			13.9		50.0				
Hydrolyzed PSDA	23680000 20927960 23755738	++++ 20626660 22705356	20403800 21545960	20854900 24285336	Ave		22087301.1			6.9		50.0				
PMPA	18375000 10886680 11458812	++++ 11309660 11095646	12353800 11040100	11063000 11006908	Lin2	7354.00336	10940349.3			3.2			0.9990		0.9900	
NVHOS	18054000 17701360 17567774	++++ 18094540 16852358	17831200 17767160	17440700 17353940	Ave		17629225.8			2.2		50.0				
PFO2HxA	13317000 13022320 13571536	++++ 13896320 12781213	13329600 13460760	13459000 13746716	Ave		13398273.9			2.6		50.0				
PEPA	5758000 7120120 8083672	++++ 8118120 7230504	6676600 8008370	7036800 7539020	Ave		7285689.56			10.5		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	89583000 86956360 70607728	++++ 91463260 ++++	88600000 86873470	87737700 81205020	Ave		85378317.3			7.8		50.0				
PFECA B	8622000 8616760 8054474	++++ 8709860 7552497	8979600 8856750	9579100 8748132	Ave		8635463.67			6.6		50.0				
PFO3OA	8803000 9547840 9486728	++++ 10057140 9974161	9251600 10571830	10502100 10573500	Ave		9863099.89			6.4		50.0				
R-PSDCA	121866000 112422000 ++++	++++ 124565760 ++++	113233000 113422800	121712400 93899040	Ave		114445857			9.0		50.0				
Hydro-EVE Acid	69831000 65393840 55301114	++++ 65492400 46064842	65427000 67720930	66788000 61876748	Ave		62655097.1			11.9		50.0				
Hydro-PS Acid	37128000 36905200 35928420	++++ 39508880 31219062	38198600 37264800	37001700 35912896	Ave		36563062.0			6.3		50.0				
PFECA G	24987000 26013320 18258654	++++ 26624600 ++++	26596600 24480580	25672600 22124324	Ave		24344709.8			11.7		50.0				
PFO4DA	7499000 6459960 9578474	++++ 9412920 7726158	8036000 9682260	7590200 9987316	Ave		8441365.33			14.7		50.0				
PS Acid	16613000 17302240 14346066	++++ 16337020 12175406	15873800 17588170	17773300 15493088	Ave		15944676.7			11.2		50.0				
EVE Acid	71433000 68121200 47850838	++++ 65812040 ++++	66492200 64390960	66654600 55568844	Ave		63290460.3			12.2		50.0				
PFO5DA	2633000 2713880 2373736	++++ 2949960 1913289	2290400 2323470	2622100 2373544	Ave		2465931.00			12.2		50.0				
13C3 HFPO-DA	6437328 6376308 5848384	++++ 6144252 5613204	6372080 6289852	6331304 6228120	Ave		6182314.67			4.5		50.0				
13C4 PFHpA	27336916 27568744 22761768	++++ 27119920 21201372	25730900 28286224	28174928 25351708	Ave		25948053.3			9.6		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	1.1929	++++	1.1645	1.1705	1.1049	AveID		1.1433			2.8		35.0				
Perfluoroheptanoic acid	1.1355	1.1392	1.1193	1.1651	1.0981	L2ID	0.0004	1.0246			8.2		0.9940			0.9900	
	1.4319	++++	1.2675	1.0743	1.0148												
	1.0733	0.9778	1.0134	1.0743	0.8976												

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-452203/2	2021.01.15._A7_TB3_A_ICAL_004.d
Level 2	IC 320-452203/3	2021.01.15._A7_TB3_A_ICAL_005.d
Level 3	IC 320-452203/4	2021.01.15._A7_TB3_A_ICAL_006.d
Level 4	IC 320-452203/5	2021.01.15._A7_TB3_A_ICAL_007.d
Level 5	IC 320-452203/6	2021.01.15._A7_TB3_A_ICAL_008.d
Level 6	IC 320-452203/7	2021.01.15._A7_TB3_A_ICAL_009.d
Level 7	IC 320-452203/8	2021.01.15._A7_TB3_A_ICAL_010.d
Level 8	IC 320-452203/9	2021.01.15._A7_TB3_A_ICAL_011.d
Level 9	IC 320-452203/11	2021.01.15._A7_TB3_A_ICAL_013.d
Level 10	IC 320-452203/12	2021.01.15._A7_TB3_A_ICAL_014.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	16127	++++	70639	131909	327969	0.00100	++++	0.00500	0.0100	0.0250
		707532	1420803	3451467	6888652	13450571	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	8891	++++	36777	78410	191479	0.00100	++++	0.00500	0.0100	0.0250
		414799	794110	2150982	4223474	9028160	0.0500	0.100	0.250	0.500	1.00
R-PSDA	Ave	7635	++++	30169	57405	130129	0.00100	++++	0.00500	0.0100	0.0250
		249569	568716	1650129	3125095	7014889	0.0500	0.100	0.250	0.500	1.00
Hydrolyzed PSDA	Ave	23680	++++	102019	208549	523199	0.00100	++++	0.00500	0.0100	0.0250
		1031333	2154596	6071334	11877869	22705356	0.0500	0.100	0.250	0.500	1.00
PMPA	Lin2	18375	++++	61769	110630	272167	0.00100	++++	0.00500	0.0100	0.0250
		565483	1104010	2751727	5729406	11095646	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	18054	++++	89156	174407	442534	0.00100	++++	0.00500	0.0100	0.0250
		904727	1776716	4338485	8783887	16852358	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	13317	++++	66648	134590	325558	0.00100	++++	0.00500	0.0100	0.0250
		694816	1346076	3436679	6785768	12781213	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	5758	++++	33383	70368	178003	0.00100	++++	0.00500	0.0100	0.0250
		405906	800837	1884755	4041836	7230504	0.0500	0.100	0.250	0.500	1.00
PES	Ave	89583	++++	443000	877377	2173909	0.00100	++++	0.00500	0.0100	0.0250
		4573163	8687347	20301255	35303864	++++	0.0500	0.100	0.250	0.500	++++
PFECA B	Ave	8622	++++	44898	95791	215419	0.00100	++++	0.00500	0.0100	0.0250
		435493	885675	2187033	4027237	7552497	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	8803	++++	46258	105021	238696	0.00100	++++	0.00500	0.0100	0.0250
		502857	1057183	2643375	4743364	9974161	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	121866	++++	566165	1217124	2810550	0.00100	++++	0.00500	0.0100	0.0250
		6228288	11342280	23474760	++++	++++	0.0500	0.100	0.250	++++	++++
Hydro-EVE Acid	Ave	69831	++++	327135	667880	1634846	0.00100	++++	0.00500	0.0100	0.0250
		3274620	6772093	15469187	27650557	46064842	0.0500	0.100	0.250	0.500	1.00
Hydro-PS Acid	Ave	37128	++++	190993	370017	922630	0.00100	++++	0.00500	0.0100	0.0250
		1975444	3726480	8978224	17964210	31219062	0.0500	0.100	0.250	0.500	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	24987 1331230	++++ 2448058	132983 5531081	256726 9129327	650333 ++++	0.00100 0.0500	++++ 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO4DA	Ave	7499 470646	++++ 968226	40180 2496829	75902 4789237	161499 7726158	0.00100 0.0500	++++ 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
PS Acid	Ave	16613 816851	++++ 1758817	79369 3873272	177733 7173033	432556 12175406	0.00100 0.0500	++++ 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
EVE Acid	Ave	71433 3290602	++++ 6439096	332461 13892211	666546 23925419	1703030 ++++	0.00100 0.0500	++++ 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO5DA	Ave	2633 147498	++++ 232347	11452 593386	26221 1186868	67847 1913289	0.00100 0.0500	++++ 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
13C3 HFPO-DA	Ave	1609332 1536063	++++ 1572463	1593020 1557030	1582826 1462096	1594077 1403301	0.250 0.250	++++ 0.250	0.250 0.250	0.250 0.250	0.250 0.250
13C4 PFHpA	Ave	6834229 6779980	++++ 7071556	6432725 6337927	7043732 5690442	6892186 5300343	0.250 0.250	++++ 0.250	0.250 0.250	0.250 0.250	0.250 0.250

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1 Analy Batch No.: 452203

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 01/15/2021 16:23 Calibration End Date: 01/15/2021 19:19 Calibration ID: 53692

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-452203/2	2021.01.15._A7_TB3_A_ICAL_004.d
Level 2	IC 320-452203/3	2021.01.15._A7_TB3_A_ICAL_005.d
Level 3	IC 320-452203/4	2021.01.15._A7_TB3_A_ICAL_006.d
Level 4	IC 320-452203/5	2021.01.15._A7_TB3_A_ICAL_007.d
Level 5	IC 320-452203/6	2021.01.15._A7_TB3_A_ICAL_008.d
Level 6	IC 320-452203/7	2021.01.15._A7_TB3_A_ICAL_009.d
Level 7	IC 320-452203/8	2021.01.15._A7_TB3_A_ICAL_010.d
Level 8	IC 320-452203/9	2021.01.15._A7_TB3_A_ICAL_011.d
Level 9	IC 320-452203/11	2021.01.15._A7_TB3_A_ICAL_013.d
Level 10	IC 320-452203/12	2021.01.15._A7_TB3_A_ICAL_014.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	7679	++++	37101	74108	176123	0.00100	++++	0.00500	0.0100	0.0250
			348840	716567	1742828	3406979	6163773	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		L2ID	39144	++++	163070	302670	699427	0.00100	++++	0.00500	0.0100	0.0250
			1455335	2765743	6422738	12226897	19029361	0.0500	0.100	0.250	0.500	1.00

Curve Type Legend:

AveID = Average isotope dilution  
 L2ID = Linear 1/conc^2 IsoDil



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_004.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 15-Jan-2021 16:23:13 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (54)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:35 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:41:31

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.643	3.330	0.313		16127	0.001152		115	29.0	M
2 R-EVE										M
405.00 > 217.00	7.030	6.897	0.133		8891	0.001080		108	170	M
3 R-PSDA										M
440.90 > 241.00	7.099	6.975	0.124		7635	0.001246		125	175	M
4 Hydrolyzed PSDA										
439.00 > 343.00	7.181	7.058	0.123		23680	0.001072		107	570	
5 PMPA										M
229.00 > 185.00	7.291	7.168	0.123		18375	0.001007		101	16.7	M
6 NVHOS										M
297.00 > 135.00	7.764	7.676	0.088		18054	0.001024		102	249	M
7 PFO2HxA										
245.00 > 85.00	8.358	8.297	0.061		13317	0.000994		99.4	131	
8 PEPA										
278.90 > 234.90	8.964	8.917	0.048		5758	0.000790		79.0	47.8	
9 PES										
314.90 > 135.00	9.235	9.206	0.029		89583	0.001049		105	1943	
10 PFECA B										M
295.00 > 201.00	9.459	9.426	0.033		8622	0.000998		99.8	262	M
11 PFO3OA										
310.90 > 85.00	9.706	9.669	0.037		8803	0.000893		89.3	159	
13 HPFO-DA										
285.00 > 169.00	9.816	9.779	0.037	1.000	7679	0.001043		104	227	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.816	9.779	0.037		1609332	0.2603		104	47107	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.164	10.133	0.031		121866	0.001065		106	3888	
16 Hydro-EVE Acid										
427.00 > 282.90	10.214	10.159	0.055		69831	0.001115		111	1420	
D 15 13C4 PFHpA										
367.00 > 322.00	10.239	10.185	0.054		6834229	0.2634		105	218185	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.239	10.185	0.054	1.000	39144	0.000970	Target=0.00	97.0	468	
363.00 > 169.00	10.239	10.185	0.054	1.000	22920		1.71(0.00-0.00)	97.0	371	
17 Hydro-PS Acid										
463.00 > 262.90	10.239	10.185	0.054		37128	0.001015		102	950	
19 PFECA G										
378.90 > 184.90	10.338	10.290	0.048		24987	0.001026		103	809	
20 PFO4DA										
376.90 > 85.00	10.487	10.440	0.047		7499	0.000888		88.8	109	
21 PS Acid										
443.00 > 146.90	10.559	10.514	0.045		16613	0.001042		104	573	
22 EVE Acid										
407.00 > 262.90	10.582	10.514	0.068		71433	0.001129		113	2455	
23 TAF										
442.90 > 85.00	11.087	11.018	0.069		2633	0.001068		107	22.0	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD1\_00054

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_004.d

Injection Date: 15-Jan-2021 16:23:13

Instrument ID: A7\_N

Lims ID: IC STD 1

Client ID:

Operator ID: abservice

ALS Bottle#: 4

Worklist Smp#: 2

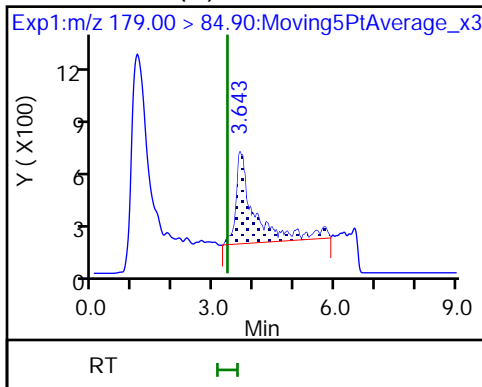
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

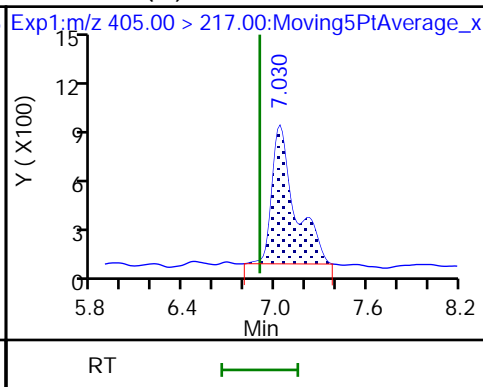
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

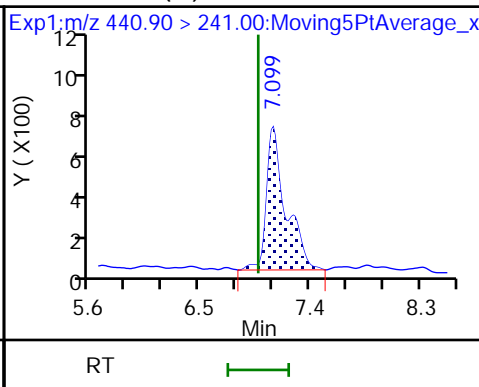
1 PFMOAA (M)



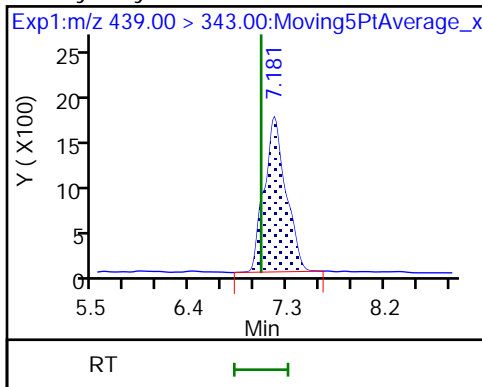
2 R-EVE (M)



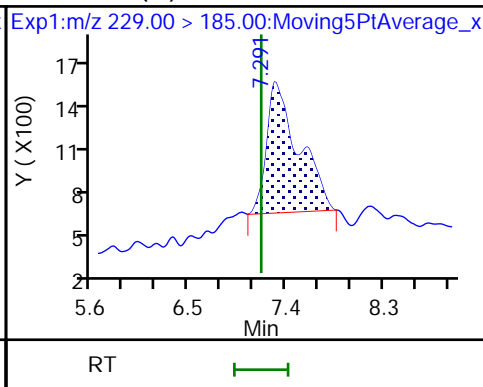
3 R-PSDA (M)



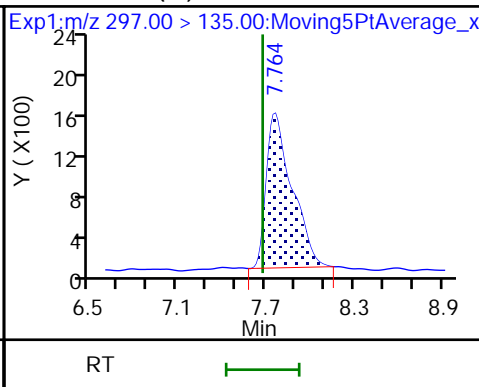
4 Hydrolyzed PSDA



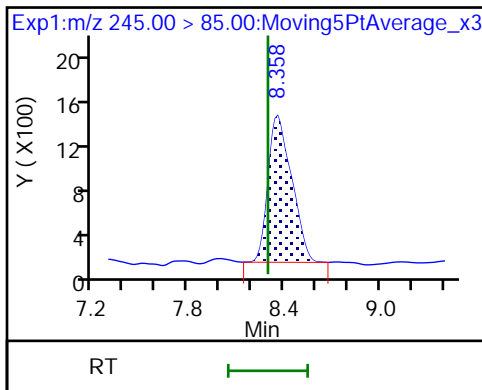
5 PMPA (M)



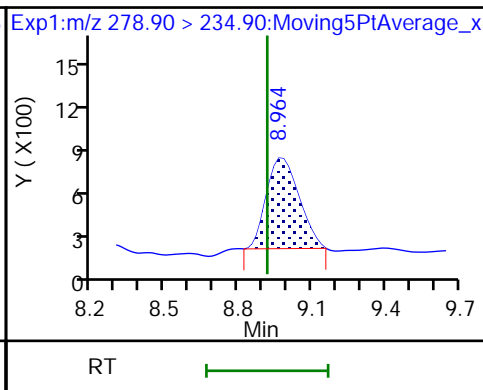
6 NVHOS (M)



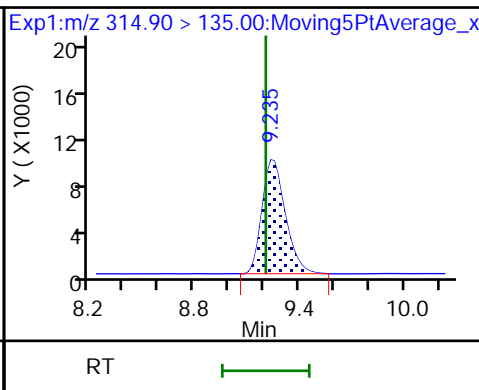
7 PFO2HxA



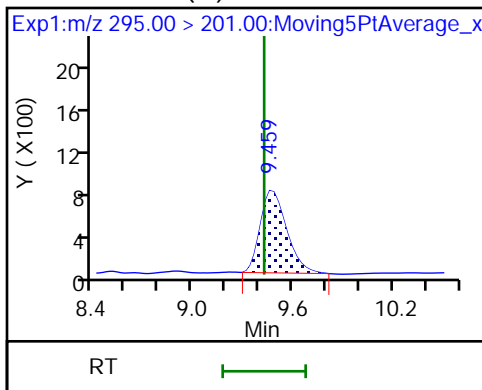
8 PEPA



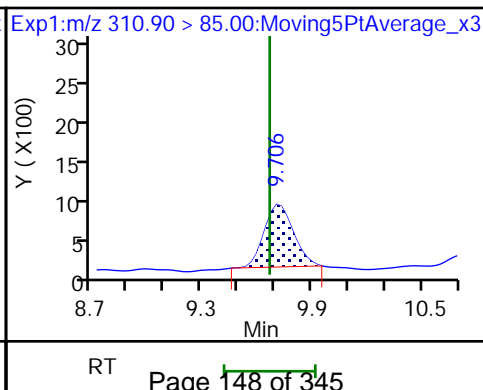
9 PES



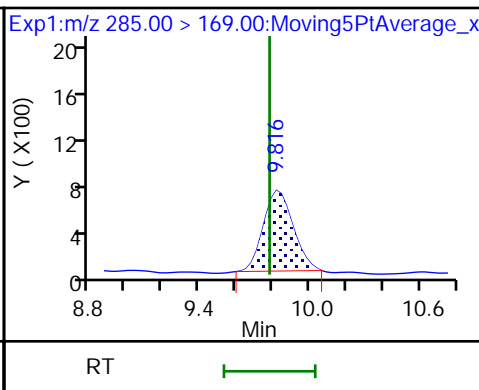
10 PFECA B (M)



11 PFO3OA



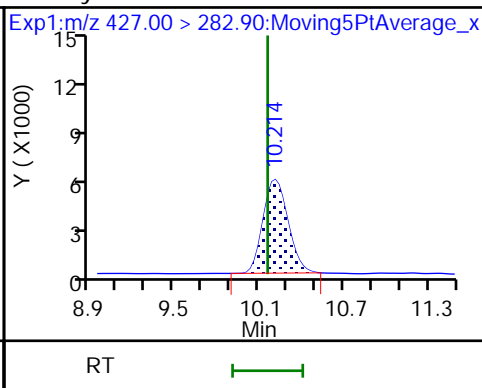
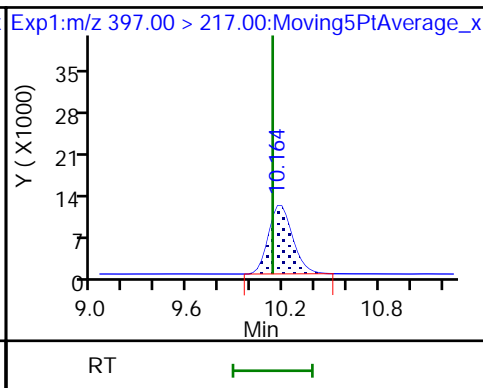
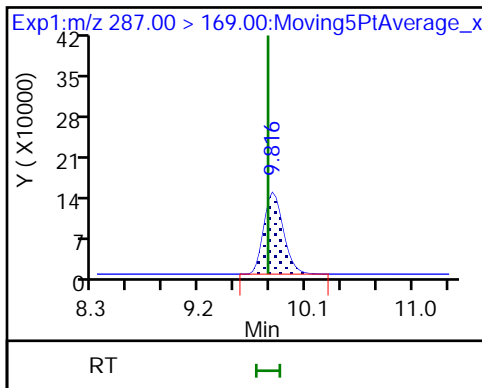
13 HPFO-DA



D 12 13C3 HFPO-DA

14 R-PSDCA

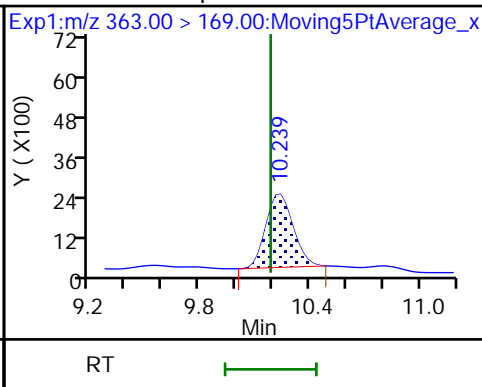
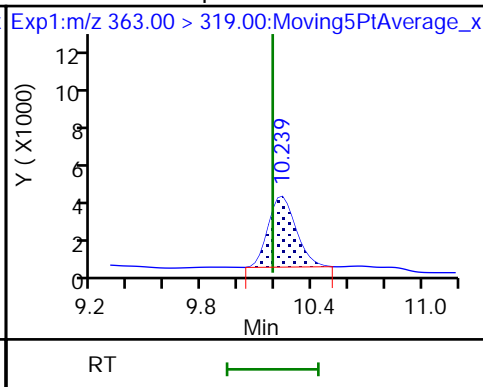
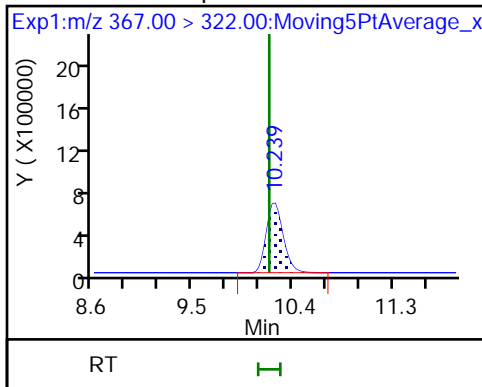
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

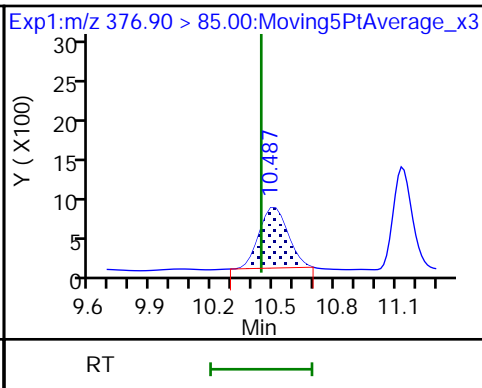
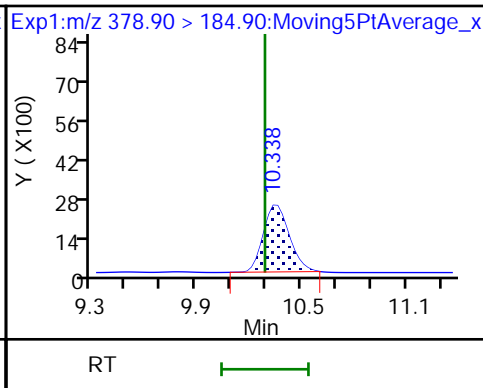
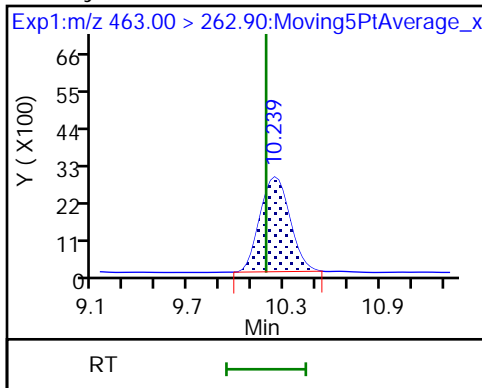
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

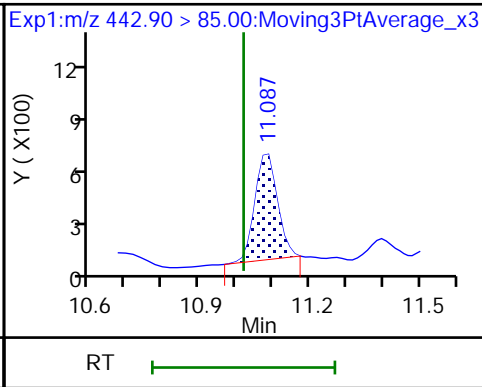
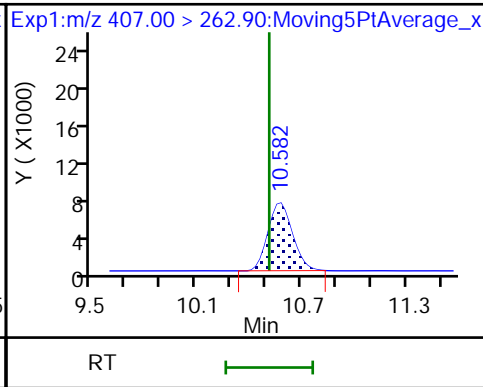
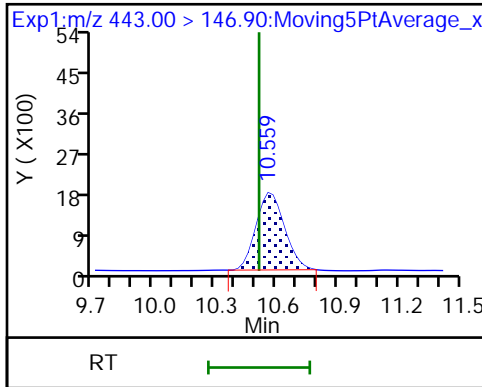
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF





Eurofins TestAmerica, Sacramento

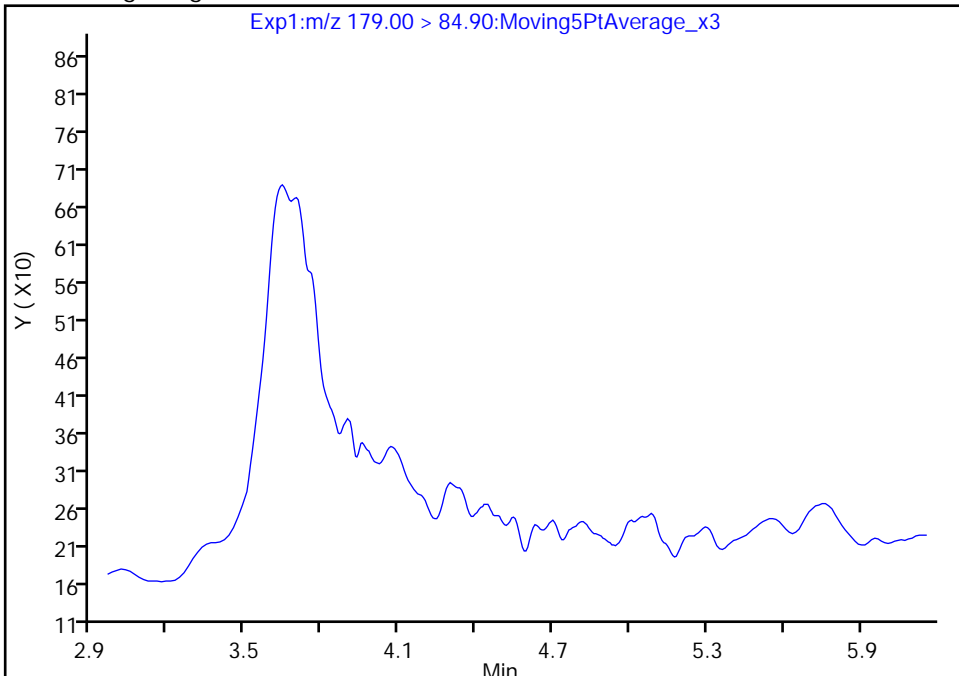
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Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

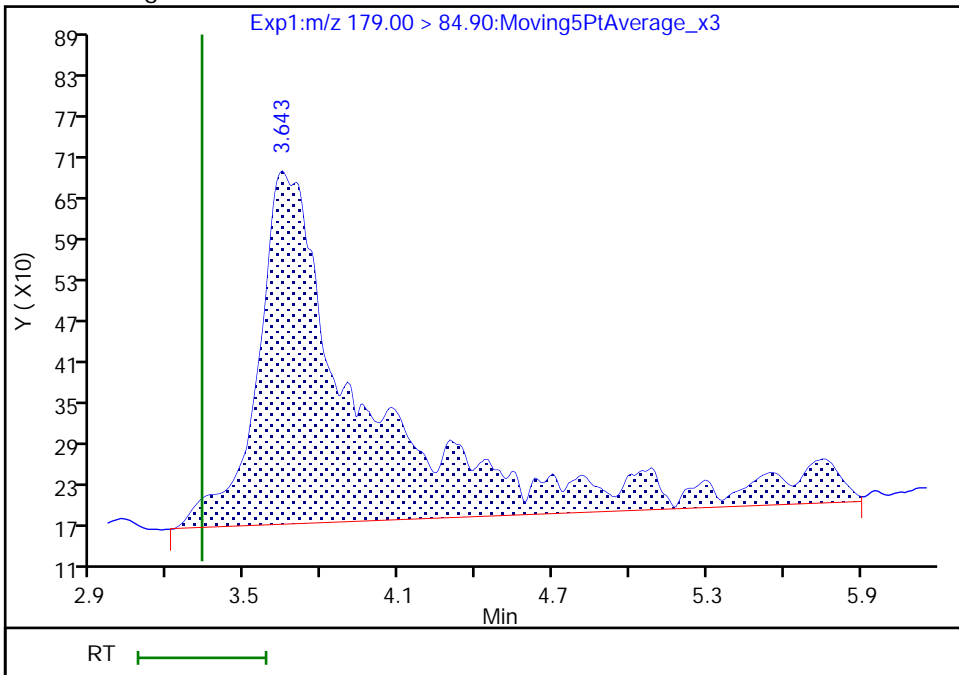
Not Detected  
Expected RT: 3.33

Processing Integration Results



RT: 3.64  
Area: 16127  
Amount: 0.001152  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:52:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

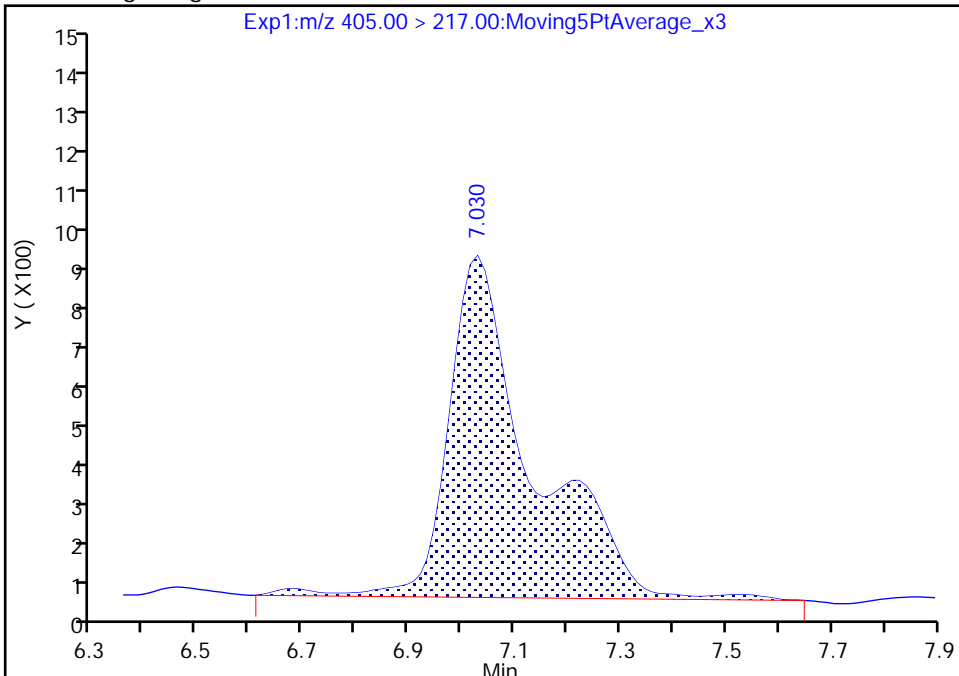
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Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

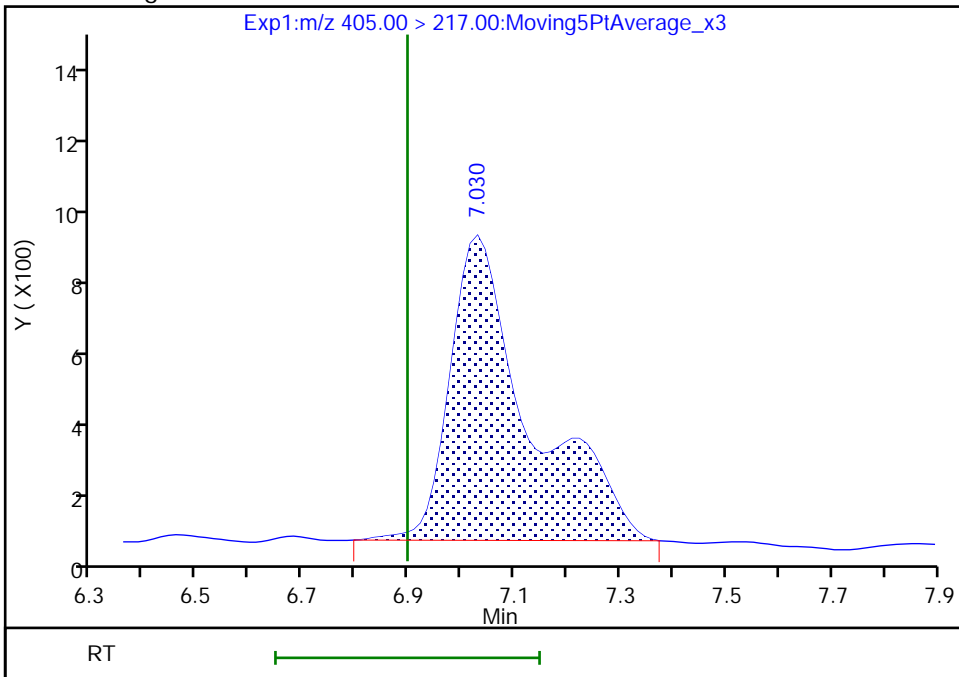
RT: 7.03  
Area: 9516  
Amount: 0.001134  
Amount Units: ng/ml

Processing Integration Results



RT: 7.03  
Area: 8891  
Amount: 0.001080  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:45:46  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

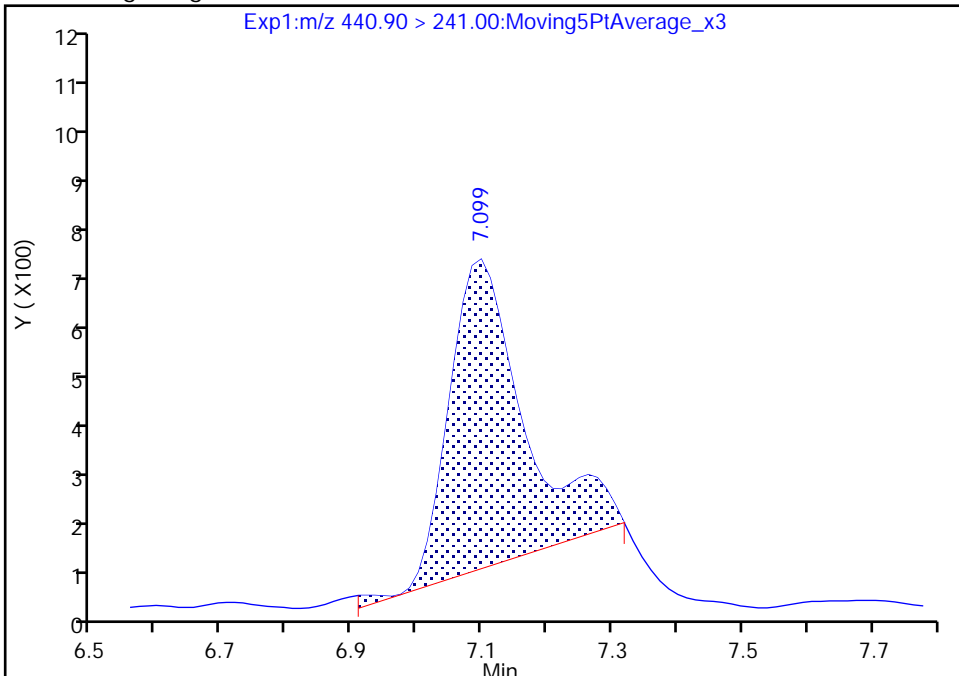
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Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

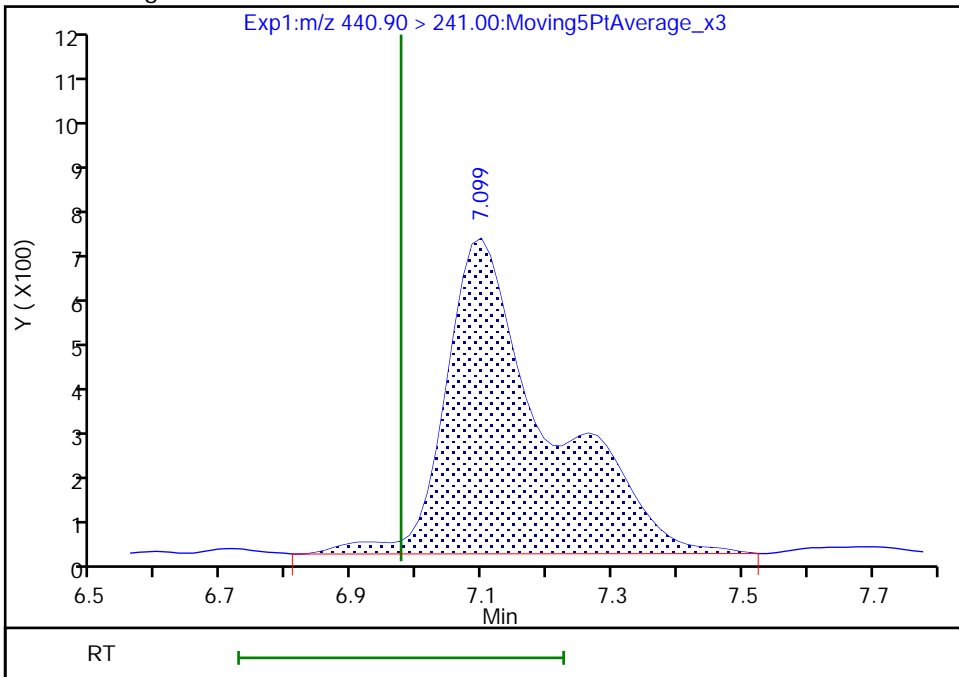
RT: 7.10  
Area: 4972  
Amount: 0.000877  
Amount Units: ng/ml

Processing Integration Results



RT: 7.10  
Area: 7635  
Amount: 0.001246  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:45:54  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

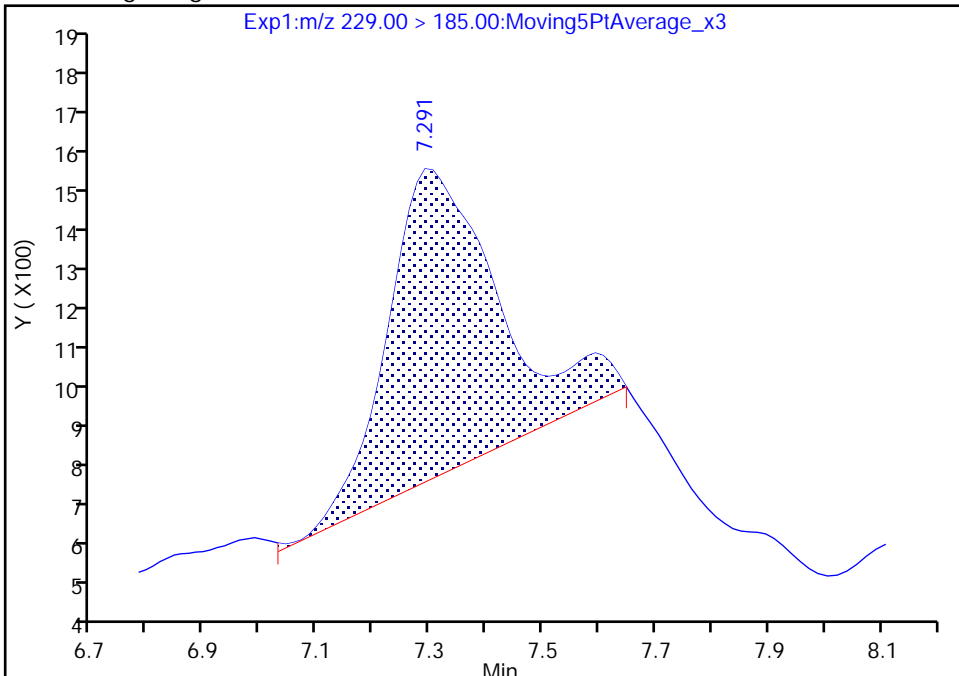
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_004.d  
Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

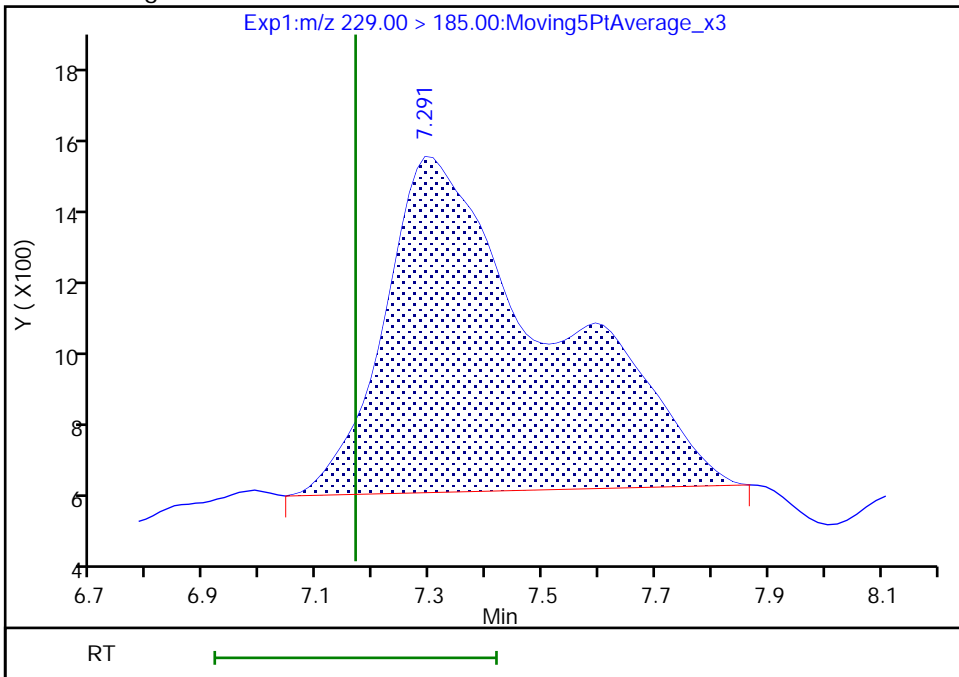
RT: 7.29  
Area: 10147  
Amount: 0.000948  
Amount Units: ng/ml

Processing Integration Results



RT: 7.29  
Area: 18375  
Amount: 0.001007  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:46:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

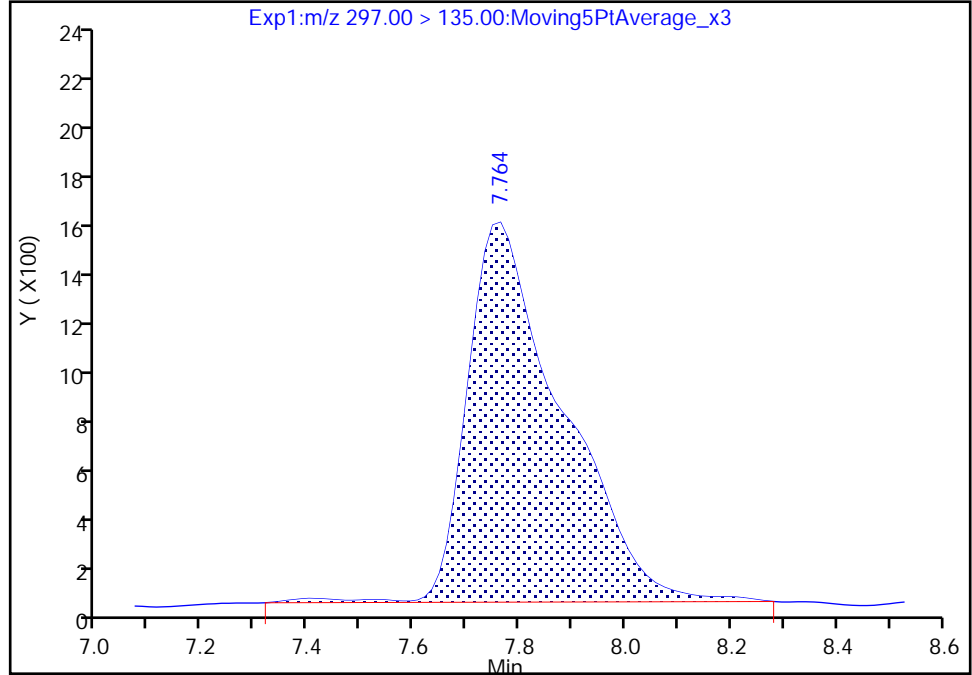
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_004.d  
Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

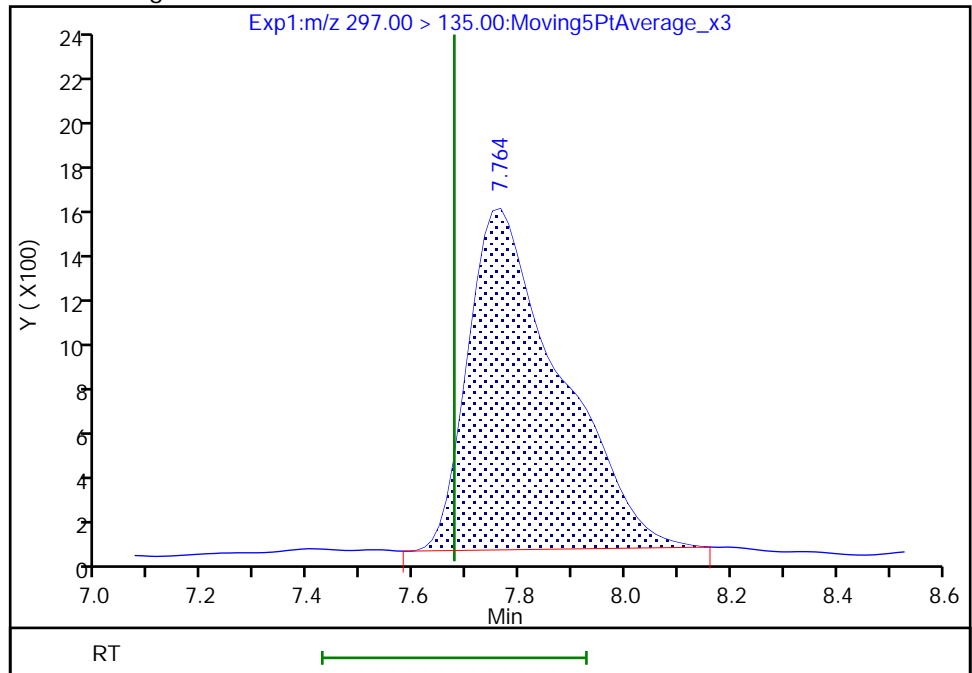
RT: 7.76  
Area: 18723  
Amount: 0.001054  
Amount Units: ng/ml

Processing Integration Results



RT: 7.76  
Area: 18054  
Amount: 0.001024  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:46:06  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 155 of 345

Eurofins TestAmerica, Sacramento

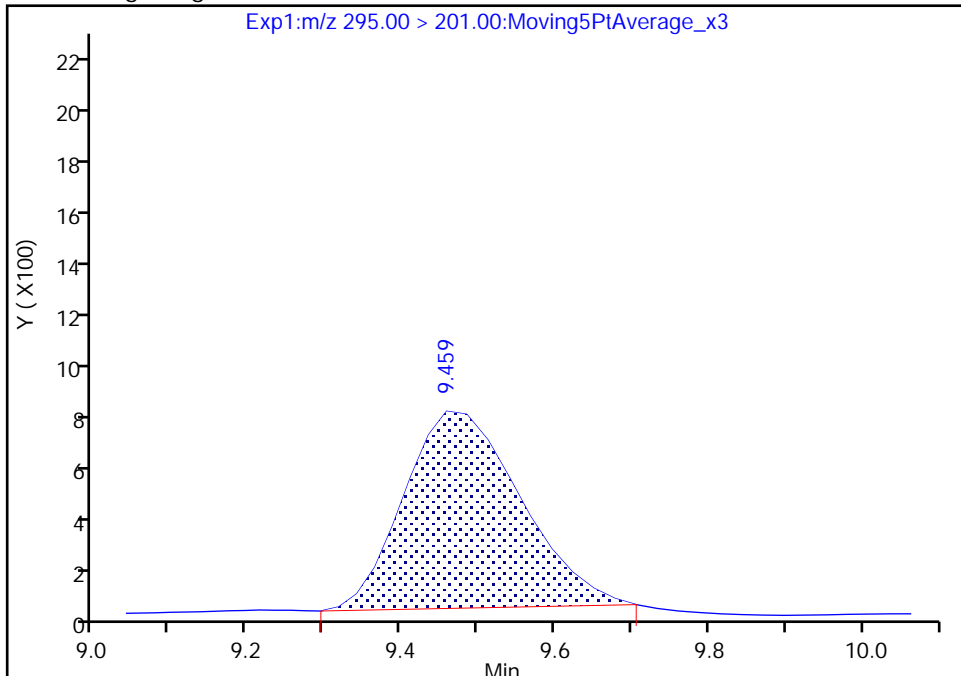
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_004.d  
Injection Date: 15-Jan-2021 16:23:13 Instrument ID: A7\_N  
Lims ID: IC STD 1  
Client ID:  
Operator ID: abservice ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

10 PFECA B, CAS: 151772-58-6

Signal: 1

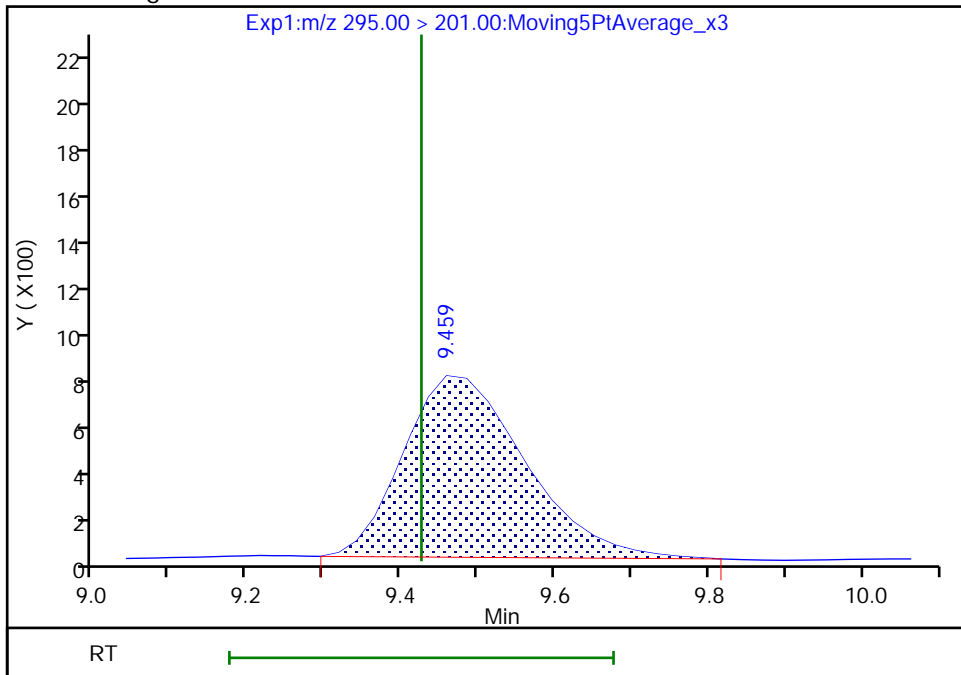
RT: 9.46  
Area: 8124  
Amount: 0.000960  
Amount Units: ng/ml

Processing Integration Results



RT: 9.46  
Area: 8622  
Amount: 0.000998  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:46:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_005.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 15-Jan-2021 16:40:48 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (44)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:37 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:47:08

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.417	3.330	0.087		34489	0.002464		98.6	58.7	M
2 R-EVE										M
405.00 > 217.00	6.935	6.897	0.038		29295	0.003560		142	394	M
3 R-PSDA										
440.90 > 241.00	7.003	6.975	0.028		23979	0.003913		157	464	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.099	7.058	0.041		75019	0.003396		136	1527	
5 PMPA										M
229.00 > 185.00	7.209	7.168	0.041		32972	0.002342		93.7	30.0	M
6 NVHOS										M
297.00 > 135.00	7.691	7.676	0.015		44286	0.002512		100	513	M
7 PFO2HxA										M
245.00 > 85.00	8.312	8.297	0.015		33160	0.002475		99.0	279	M
8 PEPA										
278.90 > 234.90	8.946	8.917	0.030		17306	0.002375		95.0	117	
9 PES										
314.90 > 135.00	9.236	9.206	0.030		228509	0.002676		107	4857	
10 PFECA B										
295.00 > 201.00	9.460	9.426	0.034		18449	0.002136		85.5	573	
11 PFO3OA										
310.90 > 85.00	9.706	9.669	0.037		27061	0.002744		110	391	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.817	9.779	0.038		1588419	0.2569		103	45853	
13 HPFO-DA										
285.00 > 169.00	9.817	9.779	0.038	1.000	16473	0.002268		90.7	478	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.166	10.133	0.033		276289	0.002414		96.6	8862	
16 Hydro-EVE Acid										
427.00 > 282.90	10.215	10.159	0.056		161029	0.002570		103	3237	
D 15 13C4 PFHpA										
367.00 > 322.00	10.215	10.185	0.030		6888789	0.2655		106	165731	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.215	10.185	0.030	1.000	85552	0.002603	Target=0.00	104	1172	
363.00 > 169.00	10.215	10.185	0.030	1.000	48955		1.75(0.00-0.00)	104	941	
17 Hydro-PS Acid										
463.00 > 262.90	10.240	10.185	0.055		90610	0.002478		99.1	2305	
19 PFECA G										
378.90 > 184.90	10.339	10.290	0.049		67660	0.002779		111	2185	
20 PFO4DA										
376.90 > 85.00	10.488	10.440	0.048		17967	0.002128		85.1	264	
21 PS Acid										
443.00 > 146.90	10.559	10.514	0.045		42359	0.002657		106	1471	
22 EVE Acid										
407.00 > 262.90	10.559	10.514	0.045		167318	0.002644		106	5686	
23 TAF										
442.90 > 85.00	11.071	11.018	0.053		5961	0.002417		96.7	46.5	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_005.d

Injection Date: 15-Jan-2021 16:40:48

Instrument ID: A7\_N

Lims ID: IC STD 2

Client ID:

Operator ID: abservice

ALS Bottle#: 5

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

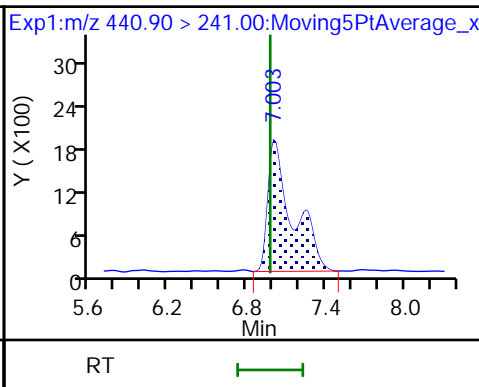
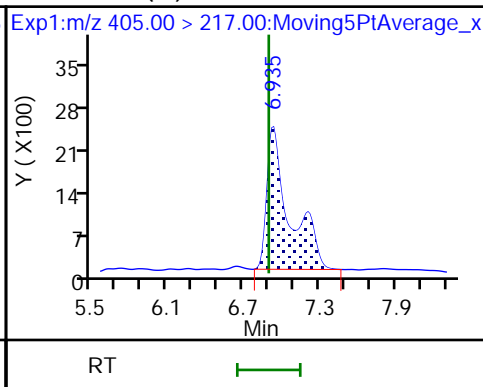
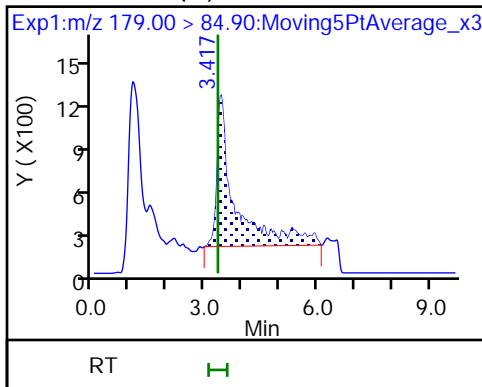
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

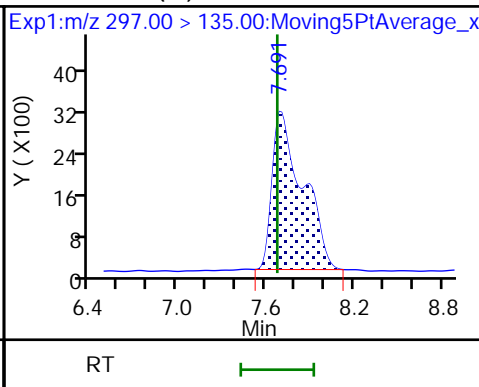
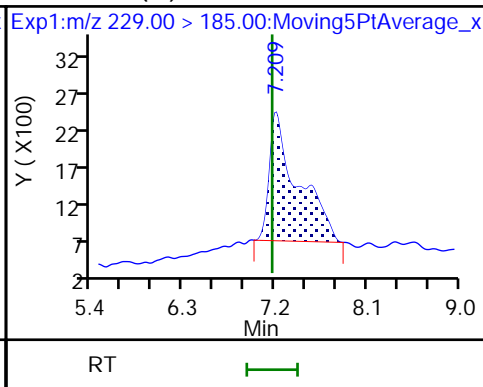
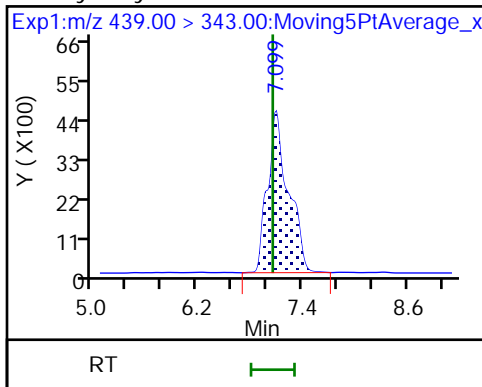
3 R-PSDA



4 Hydrolyzed PSDA

5 PMPA (M)

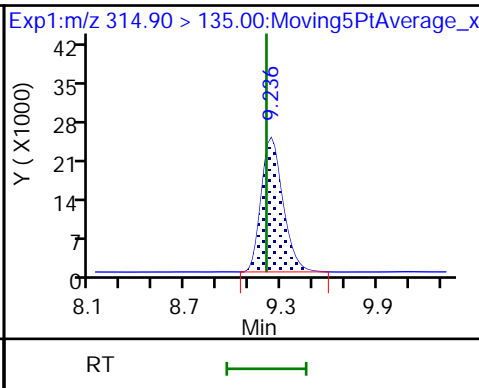
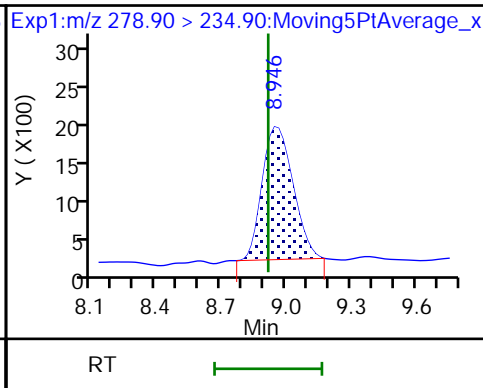
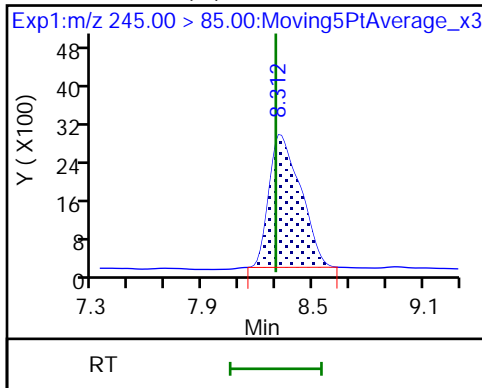
6 NVHOS (M)



7 PFO2HxA (M)

8 PEPA

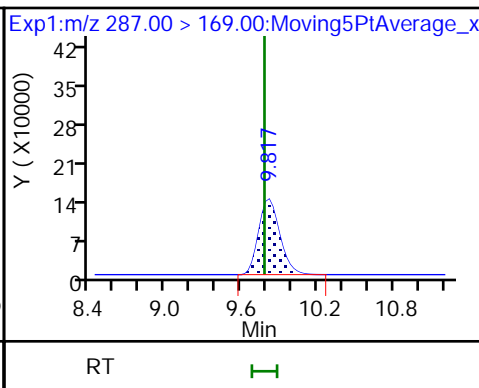
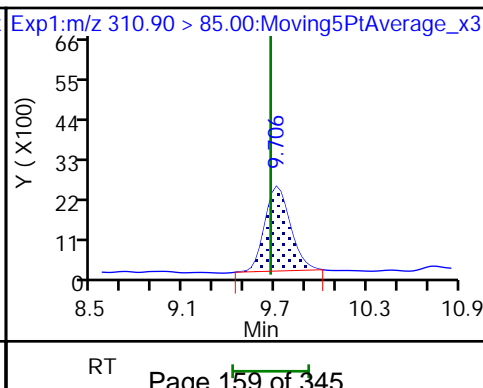
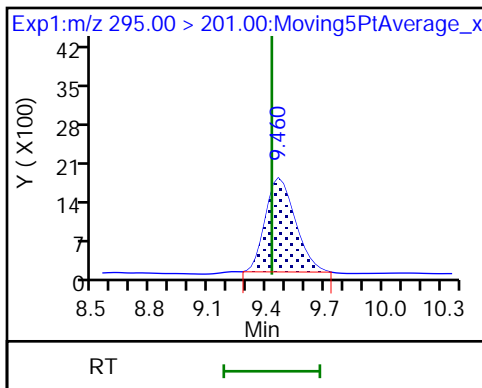
9 PES

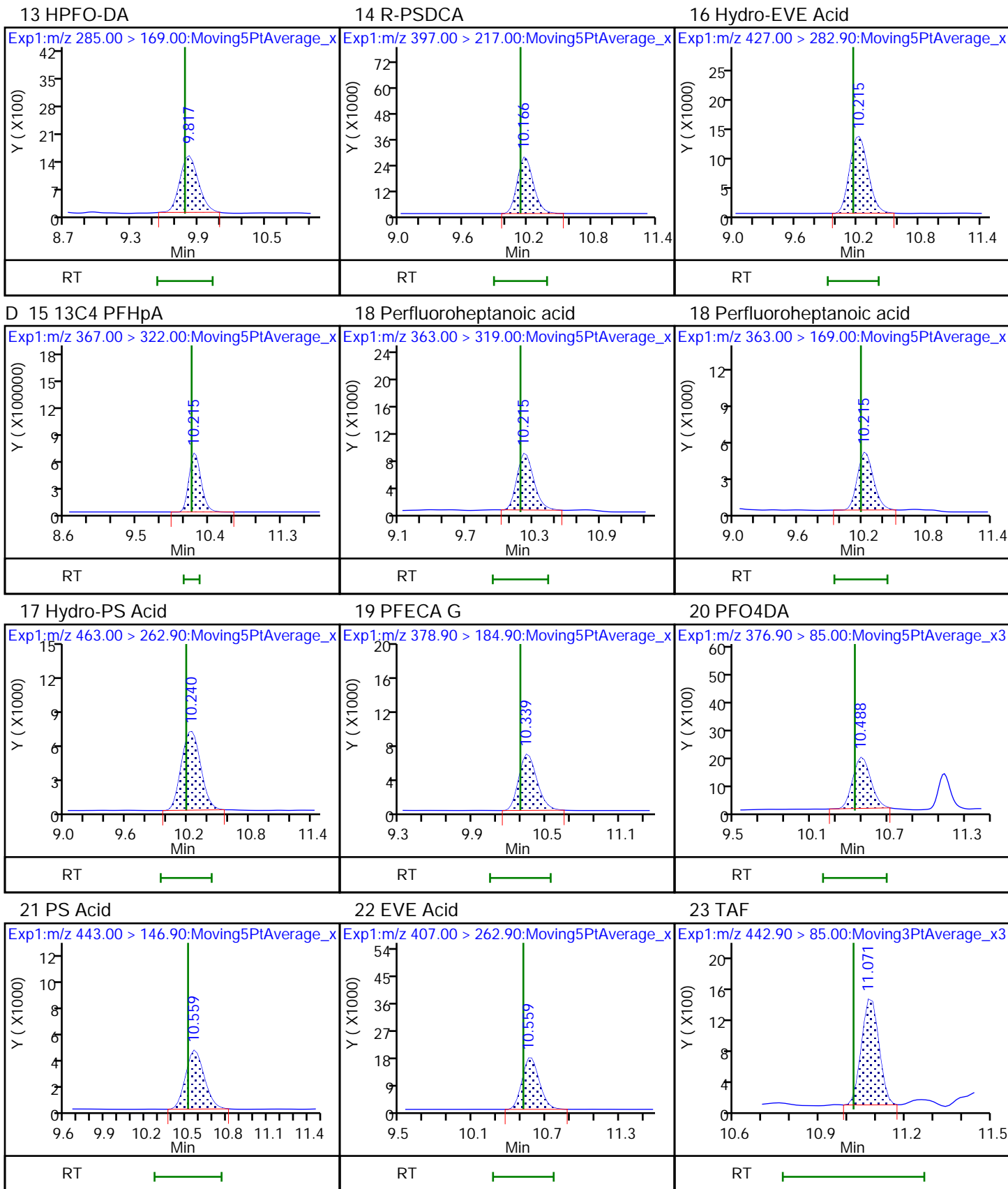


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

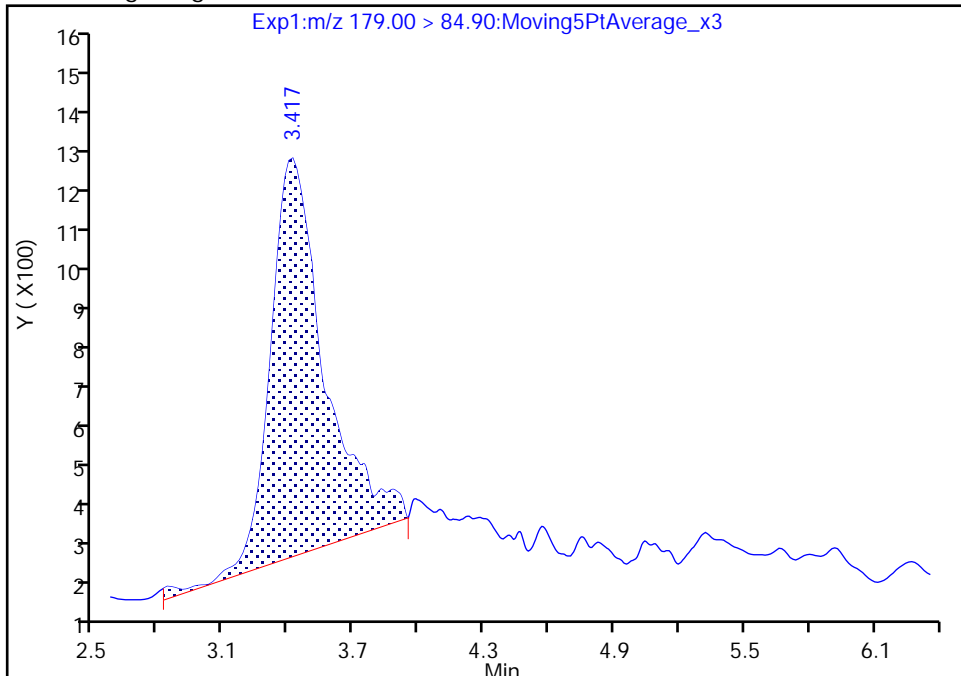
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_005.d  
Injection Date: 15-Jan-2021 16:40:48 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

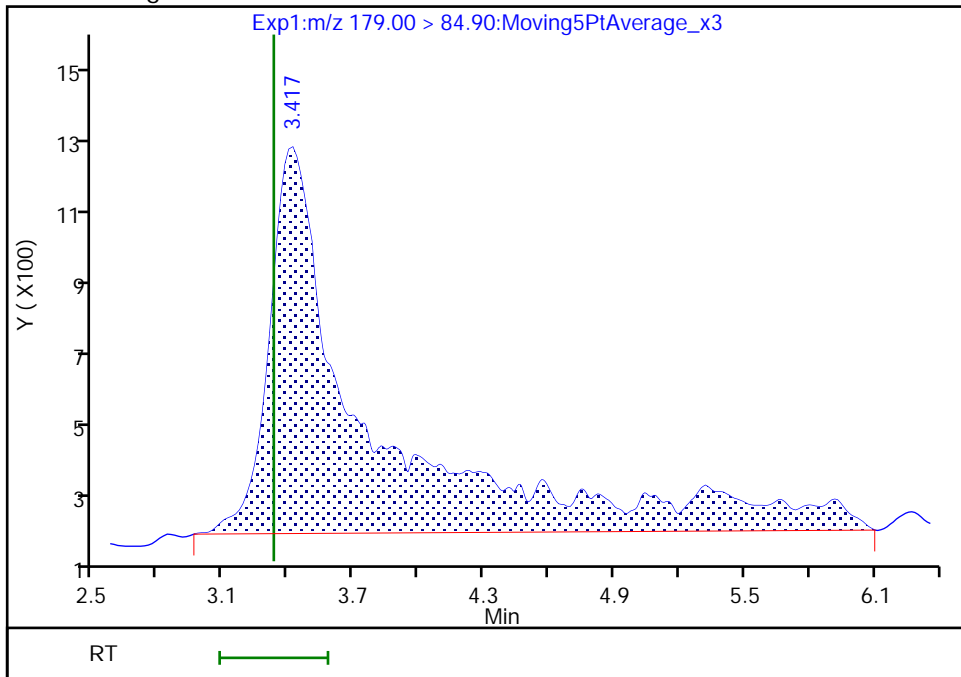
RT: 3.42  
Area: 17229  
Amount: 0.001185  
Amount Units: ng/ml

Processing Integration Results



RT: 3.42  
Area: 34489  
Amount: 0.002464  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:51:35  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

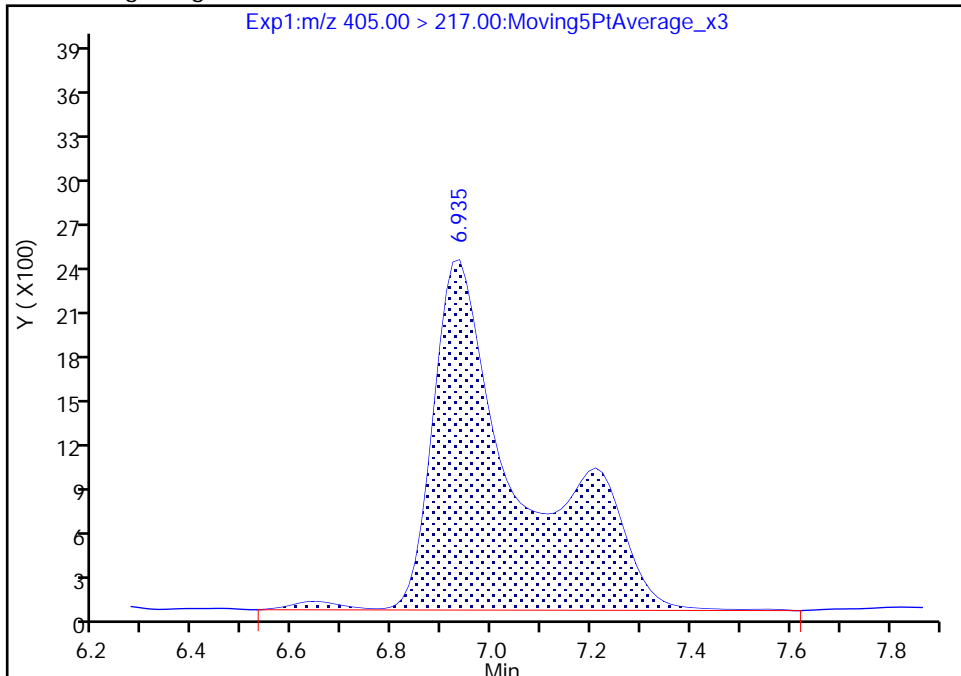
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Injection Date:	15-Jan-2021 16:40:48	Instrument ID:	A7_N
Lims ID:	IC STD 2		
Client ID:			
Operator ID:	abservice	ALS Bottle#:	5 Worklist Smp#: 3
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	PFAS_ChemoursP	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector:	EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

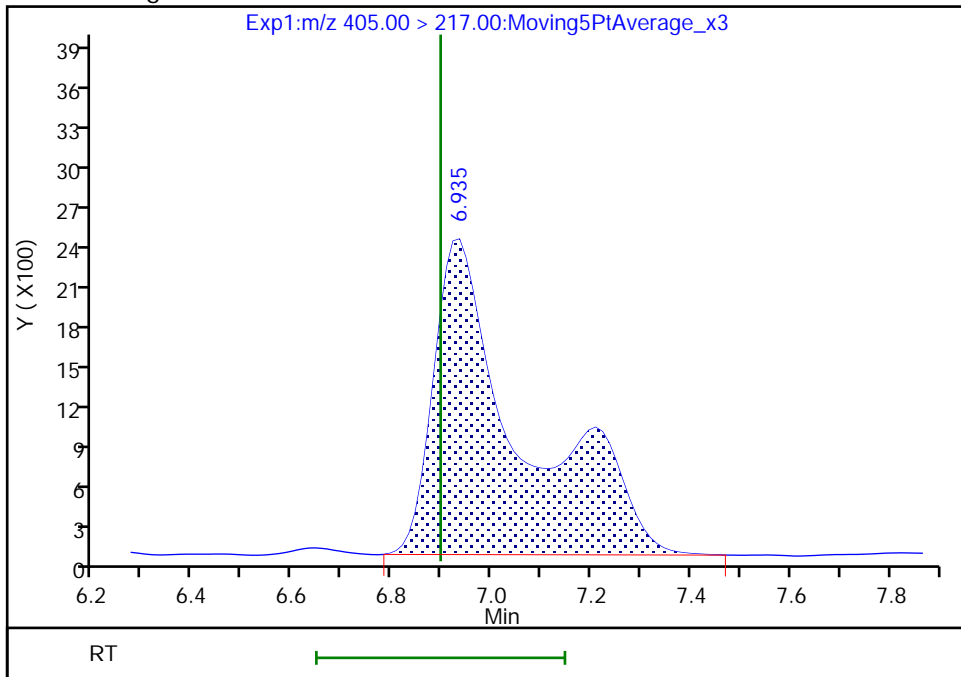
RT: 6.94  
 Area: 30005  
 Amount: 0.003603  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.94  
 Area: 29295  
 Amount: 0.003560  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:47:17  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

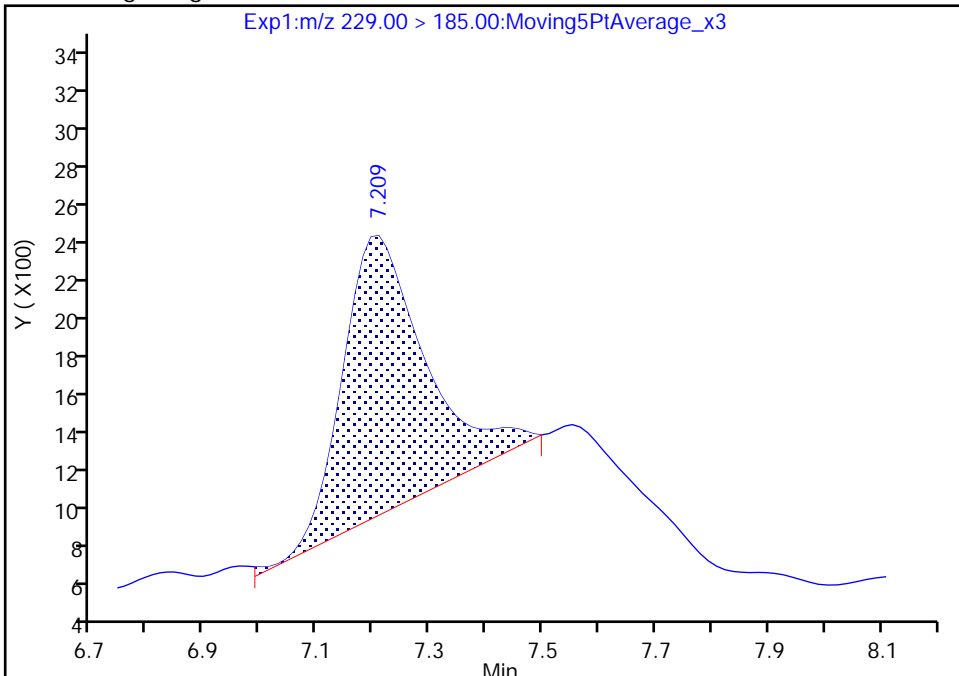
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Injection Date: 15-Jan-2021 16:40:48 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

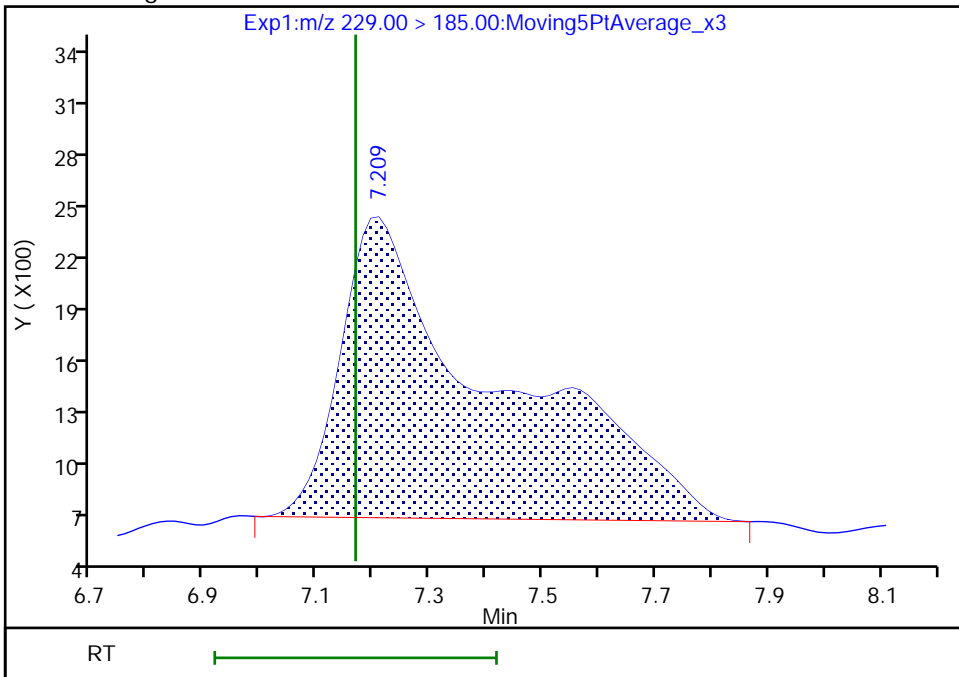
RT: 7.21  
Area: 14606  
Amount: 0.001267  
Amount Units: ng/ml

Processing Integration Results



RT: 7.21  
Area: 32972  
Amount: 0.002342  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:47:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

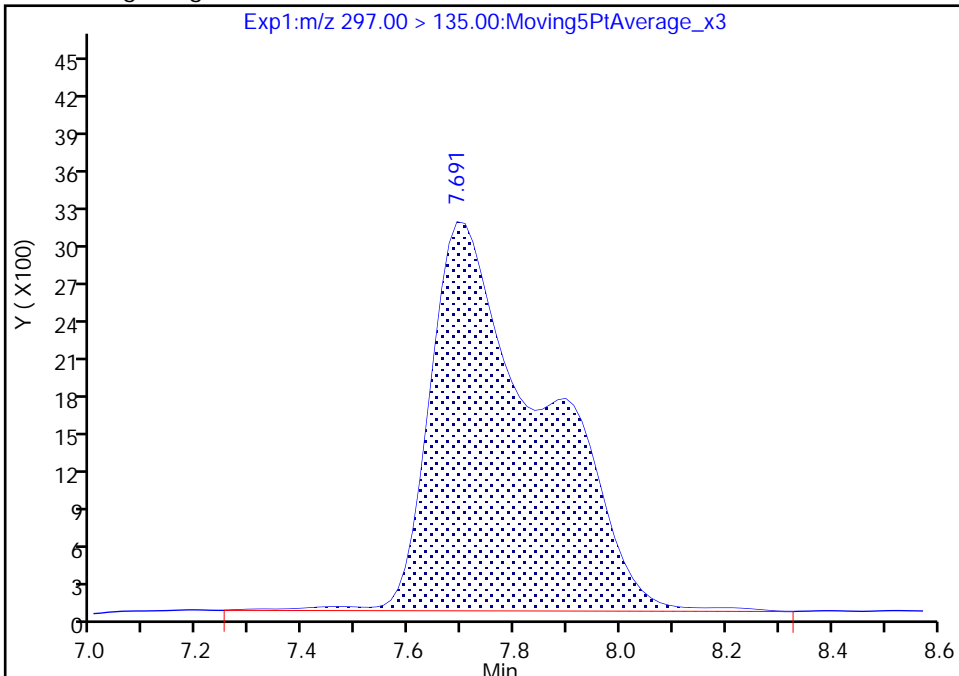
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Injection Date: 15-Jan-2021 16:40:48 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

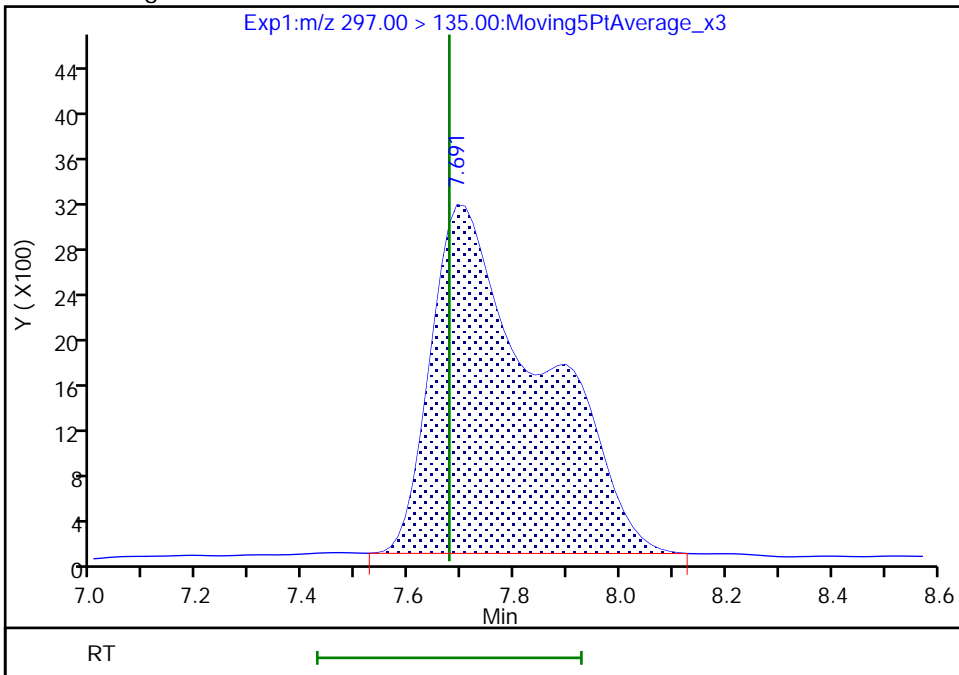
RT: 7.69  
Area: 45700  
Amount: 0.002583  
Amount Units: ng/ml

Processing Integration Results



RT: 7.69  
Area: 44286  
Amount: 0.002512  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:47:32  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

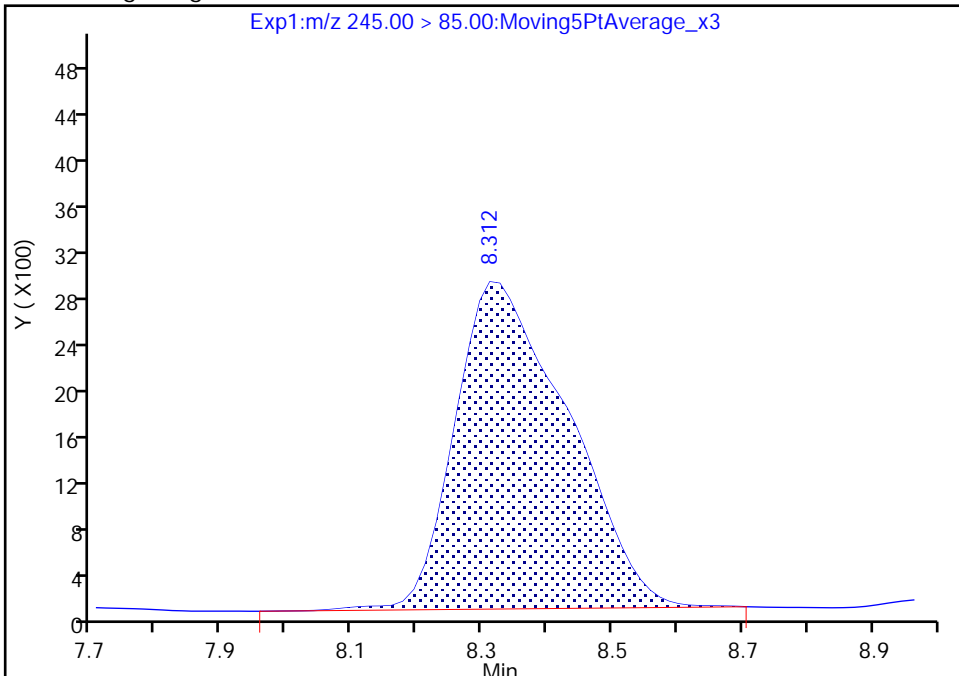
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Injection Date: 15-Jan-2021 16:40:48 Instrument ID: A7\_N  
Lims ID: IC STD 2  
Client ID:  
Operator ID: abservice ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

7 PFO2HxA, CAS: 39492-88-1

Signal: 1

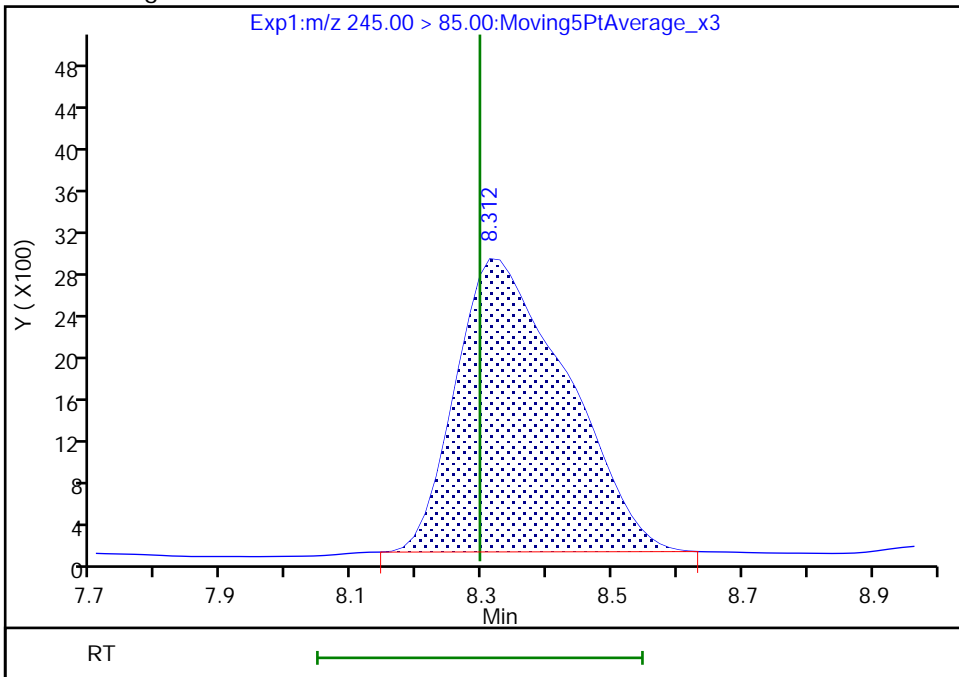
RT: 8.31  
Area: 33995  
Amount: 0.002533  
Amount Units: ng/ml

Processing Integration Results



RT: 8.31  
Area: 33160  
Amount: 0.002475  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:47:38  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 166 of 345

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_006.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 15-Jan-2021 16:58:25 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (44)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:38 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:48:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.595	3.330	0.265		70639	0.005047		101	151	M
2 R-EVE										M
405.00 > 217.00	7.003	6.897	0.106		36777	0.004469		89.4	575	M
3 R-PSDA										
440.90 > 241.00	7.071	6.975	0.096		30169	0.004923		98.5	698	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.154	7.058	0.096		102019	0.004619		92.4	2457	
5 PMPA										M
229.00 > 185.00	7.250	7.168	0.082		61769	0.004974		99.5	68.7	M
6 NVHOS										
297.00 > 135.00	7.735	7.676	0.059		89156	0.005057		101	1147	
7 PFO2HxA										
245.00 > 85.00	8.342	8.297	0.045		66648	0.004974		99.5	703	
8 PEPA										
278.90 > 234.90	8.965	8.917	0.049		33383	0.004582		91.6	275	
9 PES										
314.90 > 135.00	9.236	9.206	0.030		443000	0.005189		104	9676	
10 PFECA B										
295.00 > 201.00	9.459	9.426	0.033		44898	0.005199		104	1400	
11 PFO3OA										
310.90 > 85.00	9.706	9.669	0.037		46258	0.004690		93.8	681	
13 HPFO-DA										
285.00 > 169.00	9.816	9.779	0.037	1.000	37101	0.005093		102	1090	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.816	9.779	0.037		1593020	0.2577		103	46154	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.164	10.133	0.031		566165	0.004947		98.9	13738	
16 Hydro-EVE Acid										
427.00 > 282.90	10.214	10.159	0.055		327135	0.005221		104	6551	
D 15 13C4 PFHpA										
367.00 > 322.00	10.214	10.185	0.029		6432725	0.2479		99.2	208426	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.214	10.185	0.029	1.000	163070	0.005758	Target=0.00	115	2255	
363.00 > 169.00	10.214	10.185	0.029	1.000	91607		1.78(0.00-0.00)	115	1479	
17 Hydro-PS Acid										
463.00 > 262.90	10.239	10.185	0.054		190993	0.005224		104	4848	
19 PFECA G										
378.90 > 184.90	10.338	10.290	0.048		132983	0.005463		109	4347	
20 PFO4DA										
376.90 > 85.00	10.487	10.440	0.047		40180	0.004760		95.2	577	
21 PS Acid										
443.00 > 146.90	10.559	10.514	0.045		79369	0.004978		99.6	2723	
22 EVE Acid										
407.00 > 262.90	10.559	10.514	0.045		332461	0.005253		105	11393	
23 TAF										
442.90 > 85.00	11.072	11.018	0.054		11452	0.004644		92.9	79.8	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_006.d

Injection Date: 15-Jan-2021 16:58:25

Instrument ID: A7\_N

Lims ID: IC STD 3

Client ID:

Operator ID: abservice

ALS Bottle#: 6

Worklist Smp#: 4

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

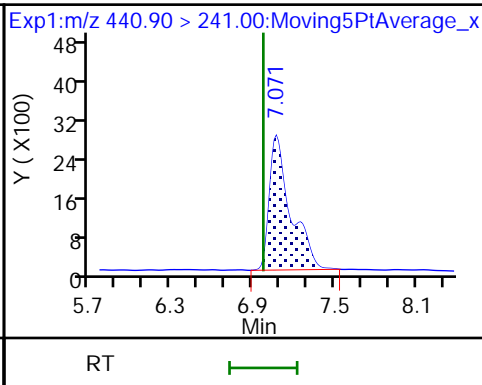
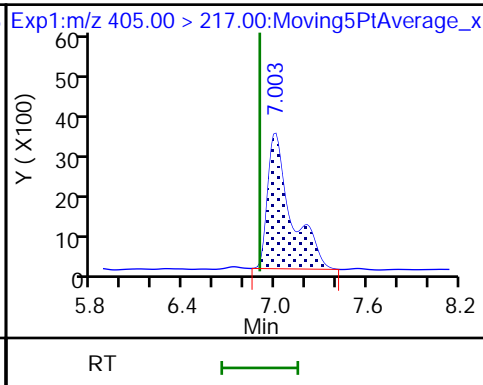
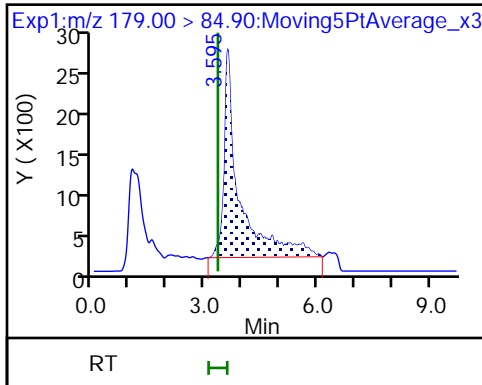
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

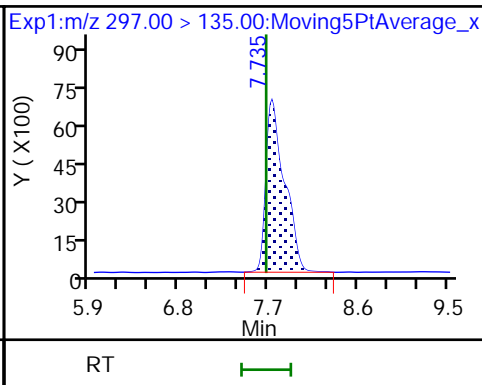
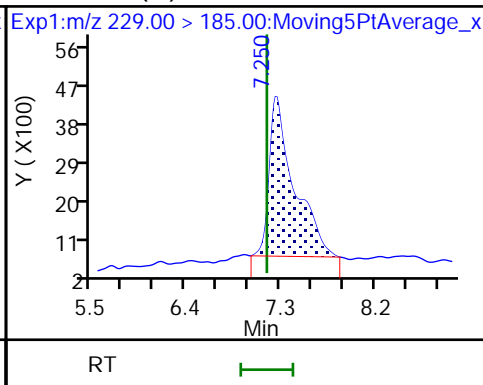
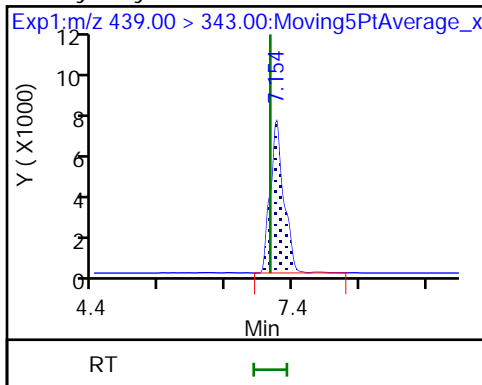
3 R-PSDA



4 Hydrolyzed PSDA

5 PMPA (M)

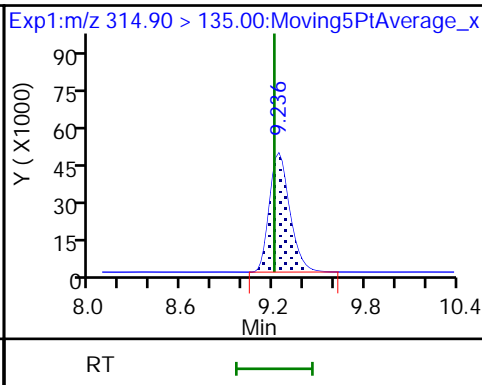
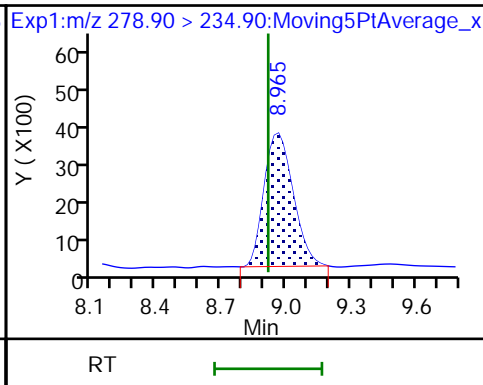
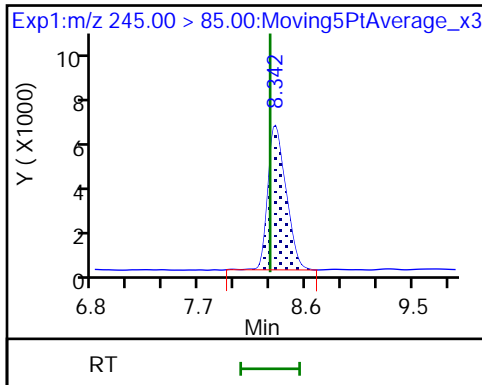
6 NVHOS



7 PFO2HxA

8 PEPA

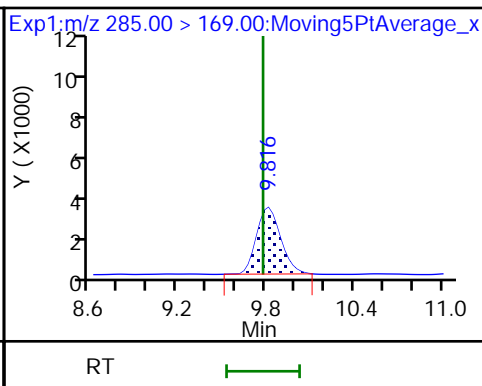
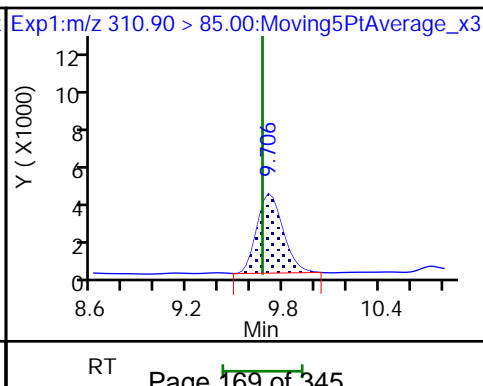
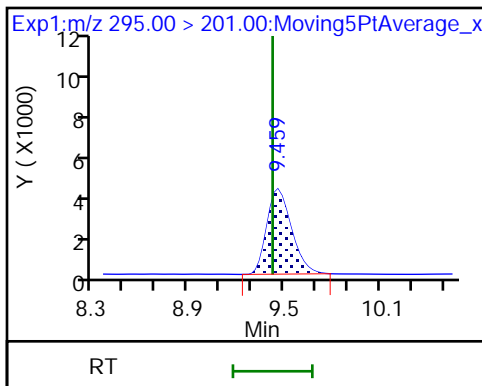
9 PES



10 PFECA B

11 PFO3OA

13 HPFO-DA

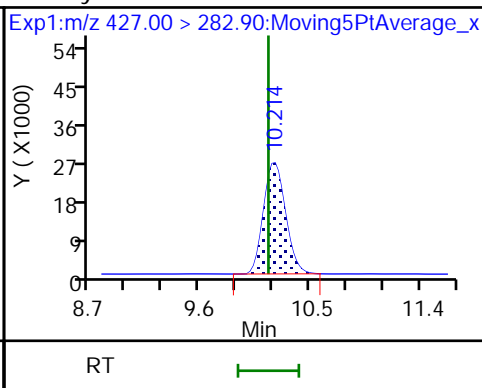
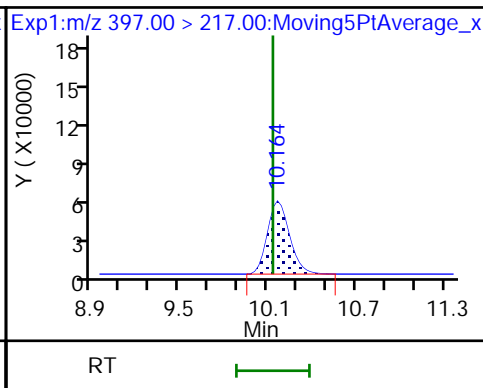
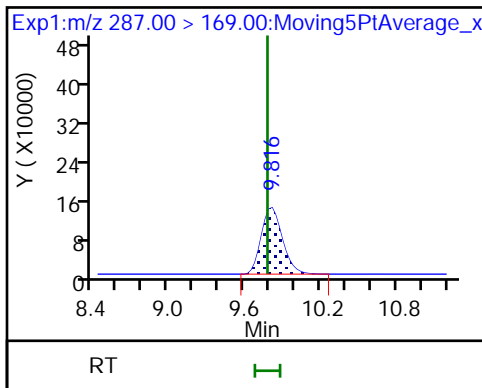




D 12 13C3 HFPO-DA

14 R-PSDCA

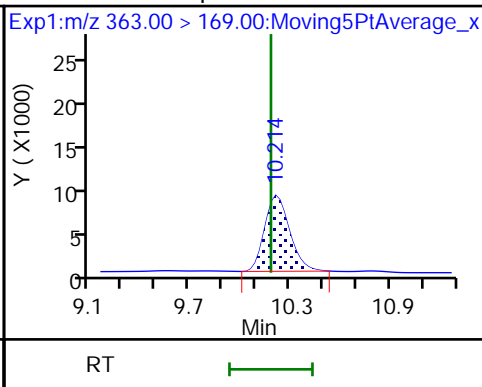
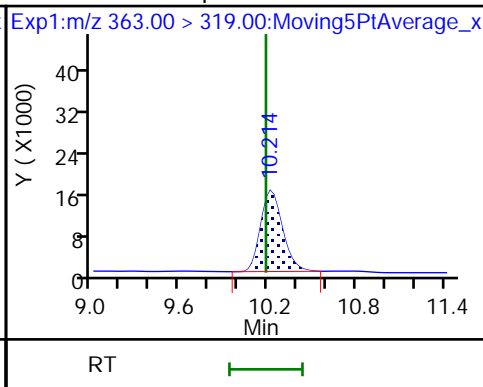
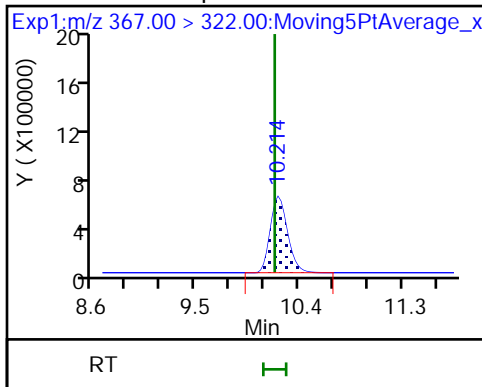
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

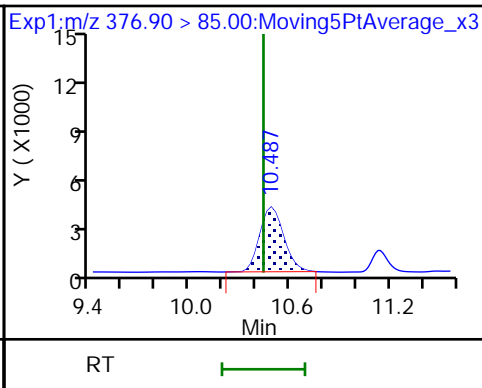
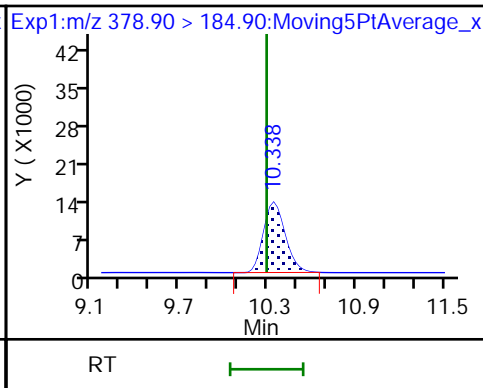
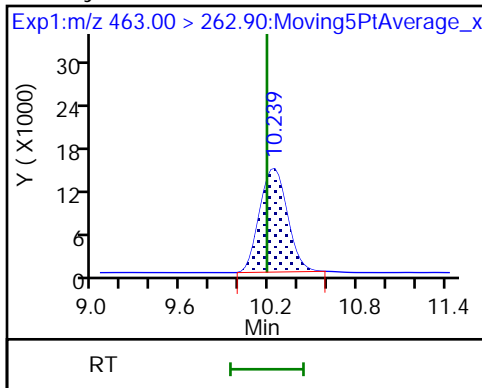
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

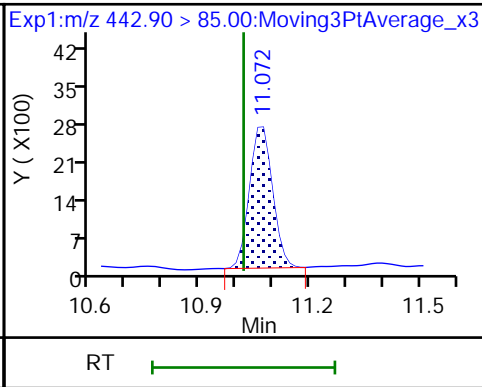
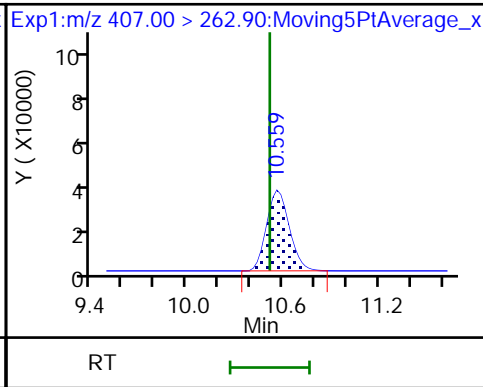
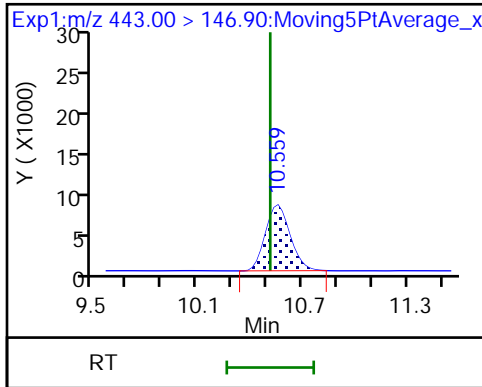
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF





Eurofins TestAmerica, Sacramento

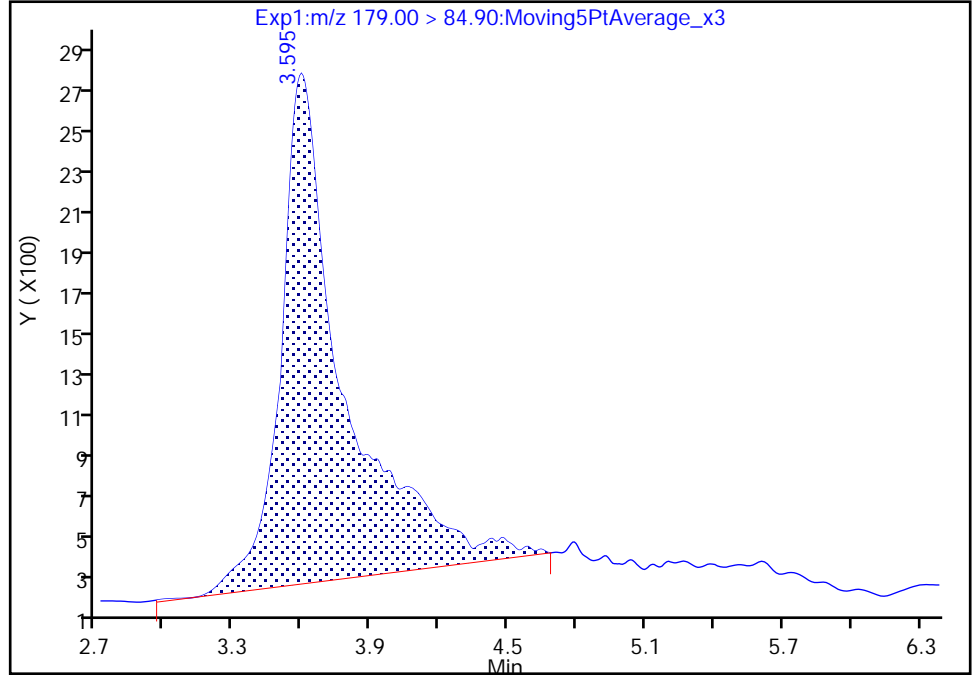
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Injection Date: 15-Jan-2021 16:58:25 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

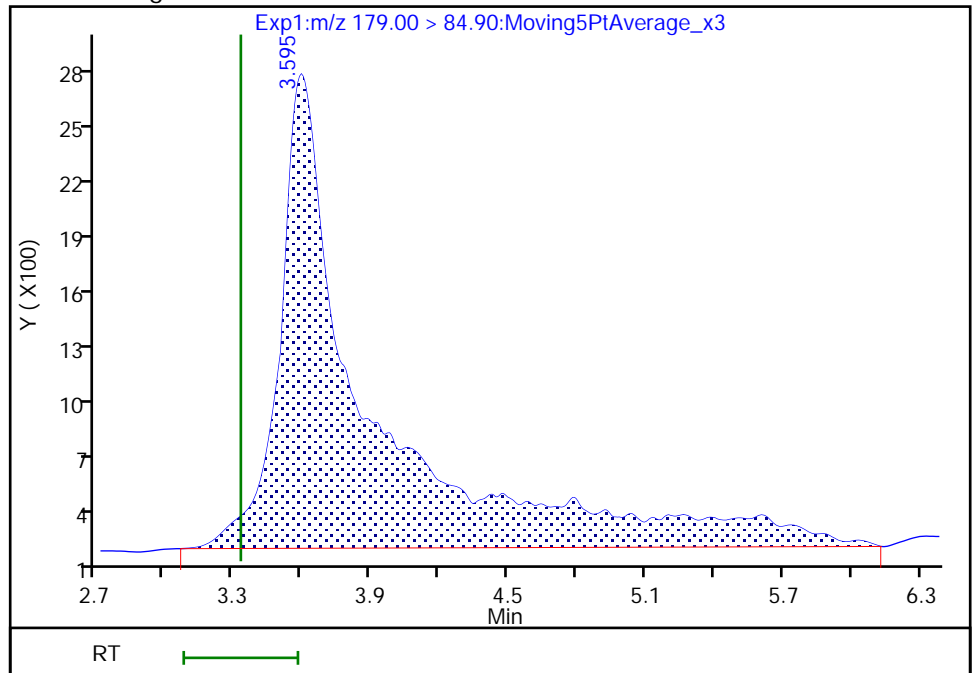
RT: 3.59  
Area: 48502  
Amount: 0.002977  
Amount Units: ng/ml

Processing Integration Results



RT: 3.59  
Area: 70639  
Amount: 0.005047  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:51:22  
Audit Action: Manually Integrated

Audit Reason: Baseline

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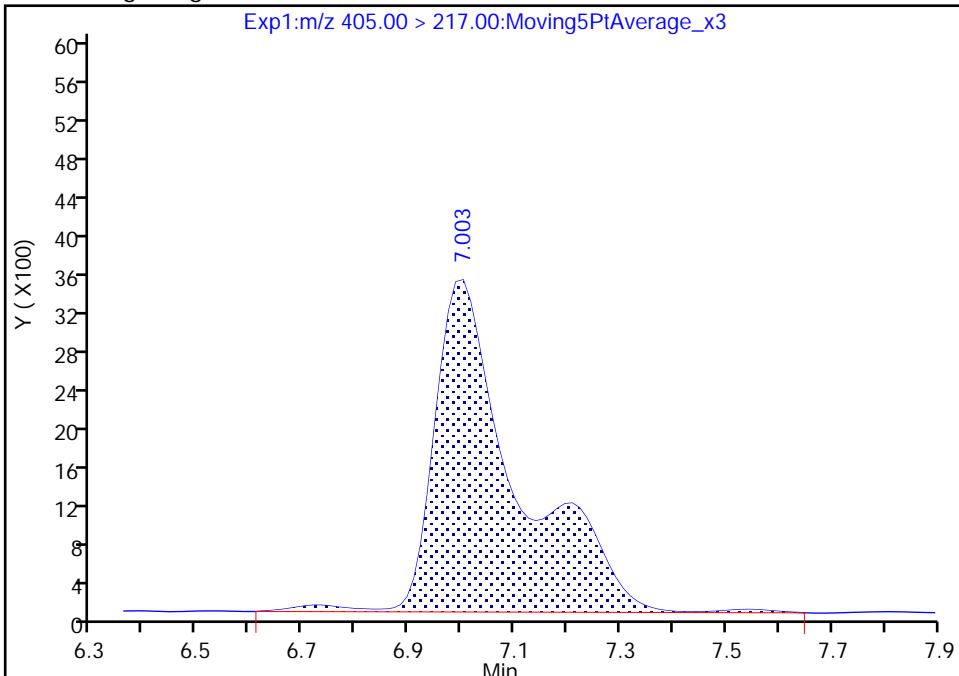
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Injection Date: 15-Jan-2021 16:58:25 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

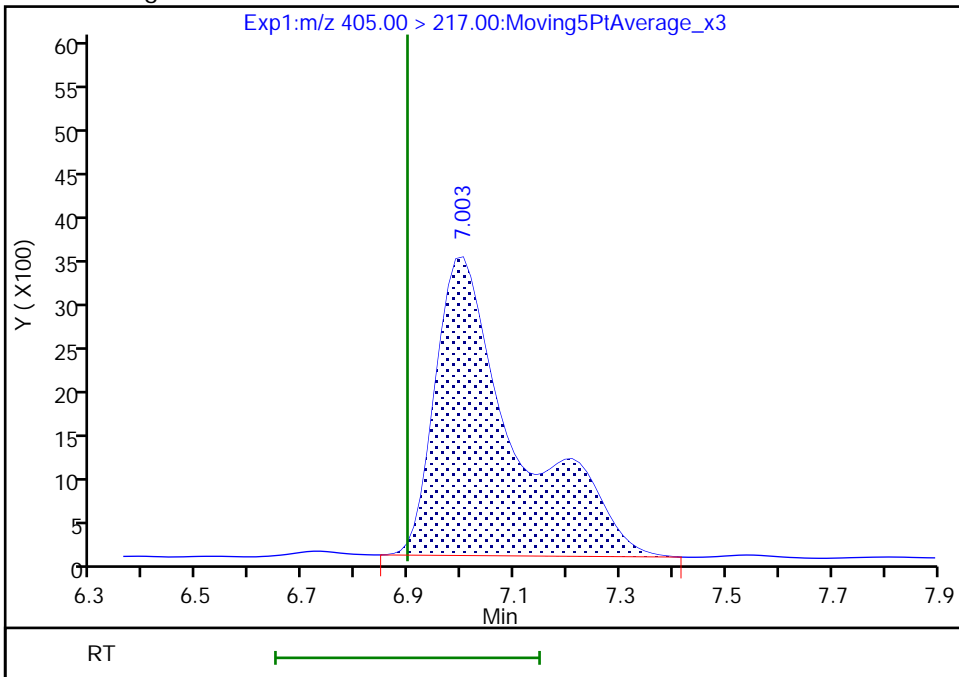
RT: 7.00  
Area: 38094  
Amount: 0.004589  
Amount Units: ng/ml

Processing Integration Results



RT: 7.00  
Area: 36777  
Amount: 0.004469  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:48:02  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 173 of 345

Eurofins TestAmerica, Sacramento

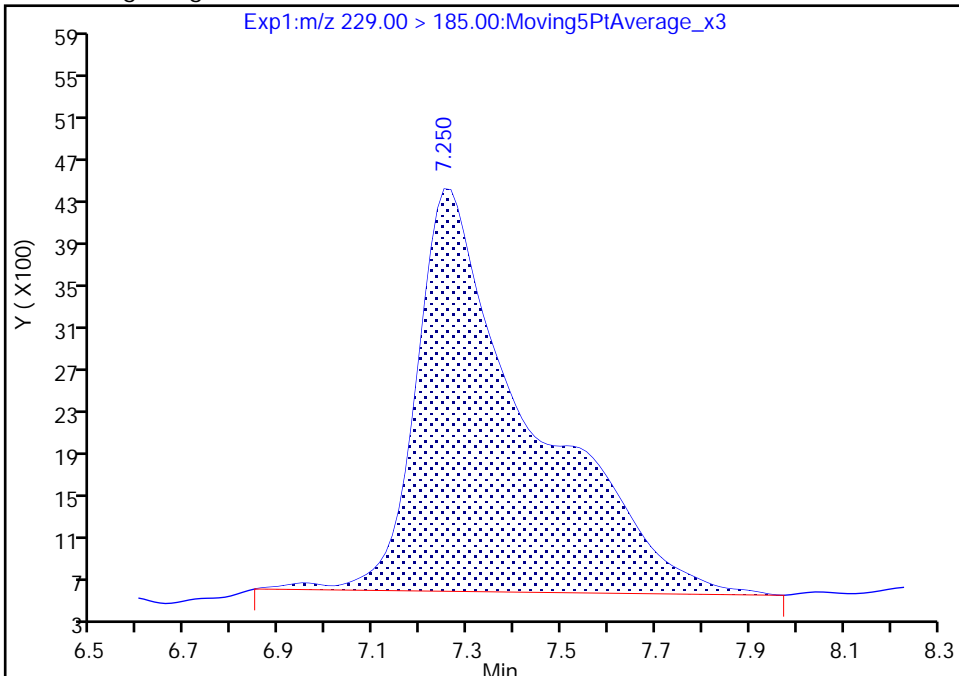
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Injection Date: 15-Jan-2021 16:58:25 Instrument ID: A7\_N  
Lims ID: IC STD 3  
Client ID:  
Operator ID: abservice ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

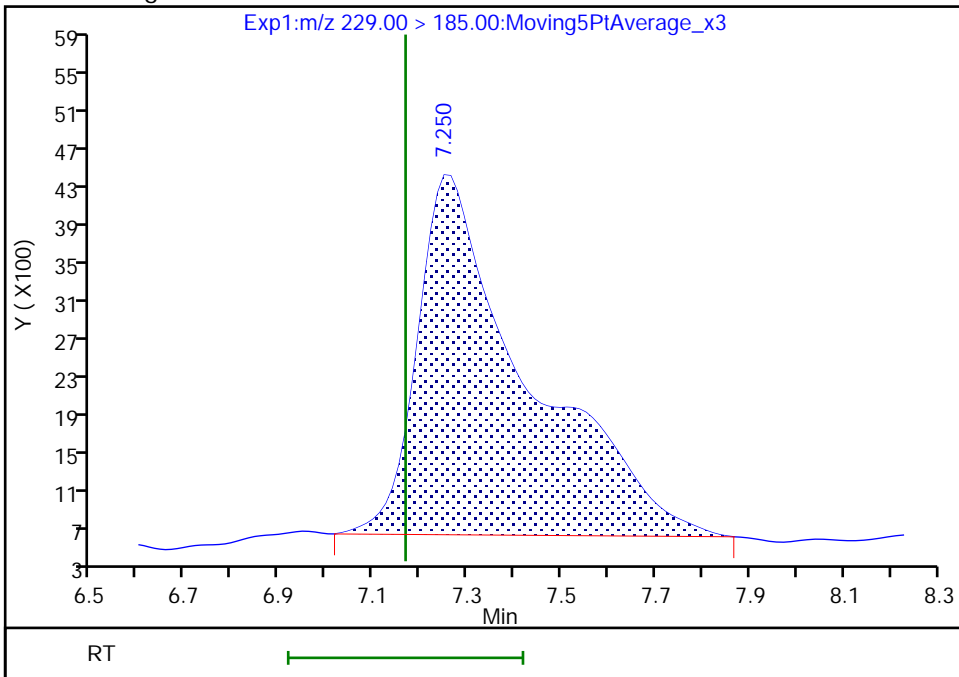
RT: 7.25  
Area: 64538  
Amount: 0.005263  
Amount Units: ng/ml

Processing Integration Results



RT: 7.25  
Area: 61769  
Amount: 0.004974  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:48:08  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_007.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 15-Jan-2021 17:15:59 ALS Bottle#: 7 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (43)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:39 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:48:54

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.487	3.330	0.157		131909	0.009425		94.3	265	M
2 R-EVE										M
405.00 > 217.00	6.948	6.897	0.051		78410	0.009528		95.3	1372	M
3 R-PSDA										
440.90 > 241.00	7.030	6.975	0.055		57405	0.009367		93.7	1175	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.113	7.058	0.055		208549	0.009442		94.4	4642	
5 PMPA										M
229.00 > 185.00	7.223	7.168	0.055		110630	0.009440		94.4	122	M
6 NVHOS										
297.00 > 135.00	7.712	7.676	0.036		174407	0.009893		98.9	2501	
7 PFO2HxA										
245.00 > 85.00	8.317	8.297	0.020		134590	0.0100		100	1184	
8 PEPA										
278.90 > 234.90	8.932	8.917	0.016		70368	0.009658		96.6	562	
9 PES										
314.90 > 135.00	9.222	9.206	0.016		877377	0.0103		103	18877	
10 PFECA B										
295.00 > 201.00	9.442	9.426	0.016		95791	0.0111		111	2970	
11 PFO3OA										
310.90 > 85.00	9.686	9.669	0.017		105021	0.0106		106	1828	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.797	9.779	0.018		1582826	0.2560		102	45883	
13 HPFO-DA										
285.00 > 169.00	9.797	9.779	0.018	1.000	74108	0.0102		102	2169	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.147	10.133	0.014		1217124	0.0106		106	29304	
16 Hydro-EVE Acid										
427.00 > 282.90	10.197	10.159	0.038		667880	0.0107		107	13406	
D 15 13C4 PFHpA										
367.00 > 322.00	10.197	10.185	0.012		7043732	0.2715		109	226698	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.197	10.185	0.012	1.000	302670	0.0101	Target=0.00	101	4177	
363.00 > 169.00	10.197	10.185	0.012	1.000	187095		1.62(0.00-0.00)	101	3611	
17 Hydro-PS Acid										
463.00 > 262.90	10.222	10.185	0.037		370017	0.0101		101	9404	
19 PFECA G										
378.90 > 184.90	10.321	10.290	0.031		256726	0.0105		105	8312	
20 PFO4DA										
376.90 > 85.00	10.470	10.440	0.030		75902	0.008992		89.9	1081	
21 PS Acid										
443.00 > 146.90	10.542	10.514	0.028		177733	0.0111		111	6109	
22 EVE Acid										
407.00 > 262.90	10.542	10.514	0.028		666546	0.0105		105	22689	
23 TAF										
442.90 > 85.00	11.052	11.018	0.034		26221	0.0106		106	188	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00043

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_007.d

Injection Date: 15-Jan-2021 17:15:59

Instrument ID: A7\_N

Lims ID: IC STD 4

Client ID:

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

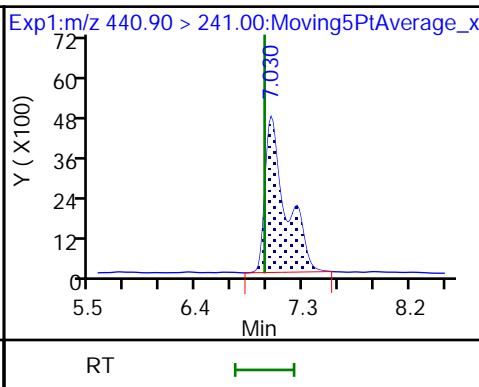
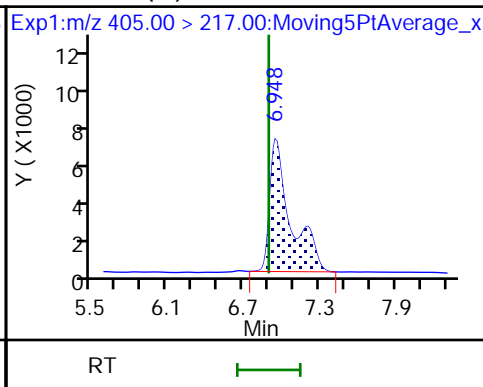
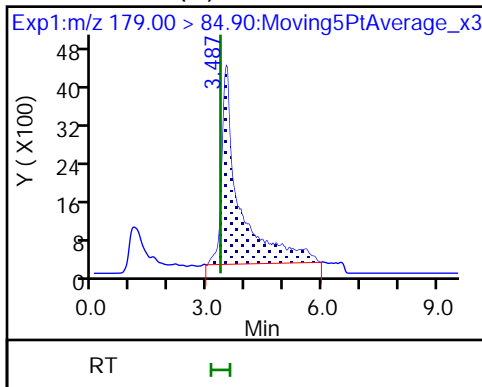
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

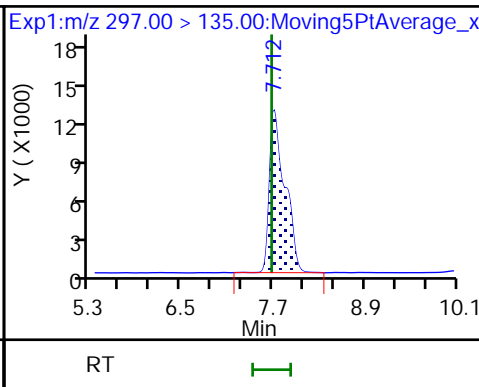
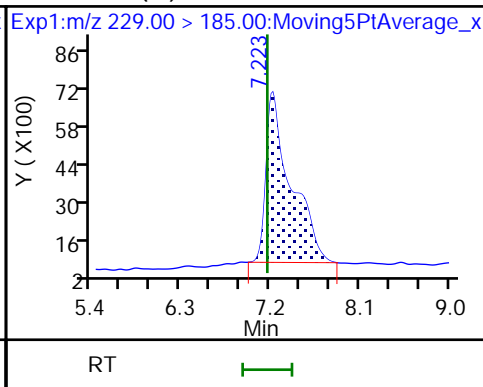
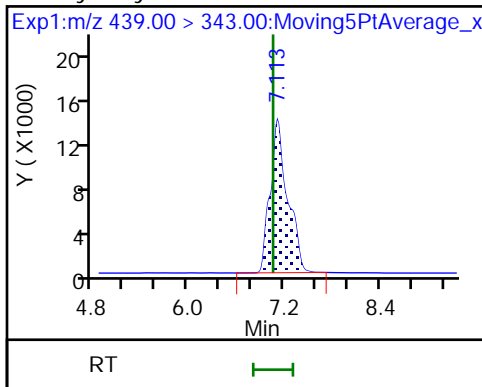
3 R-PSDA



4 Hydrolyzed PSDA

5 PMPA (M)

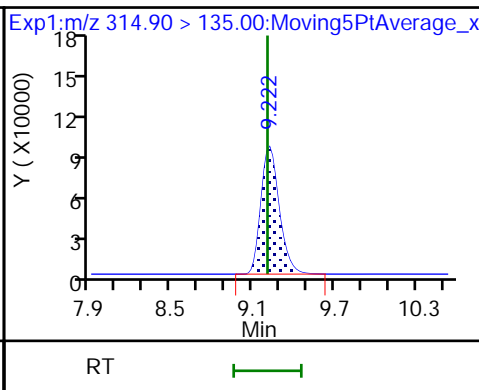
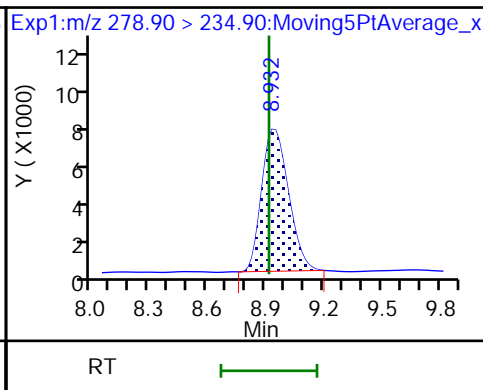
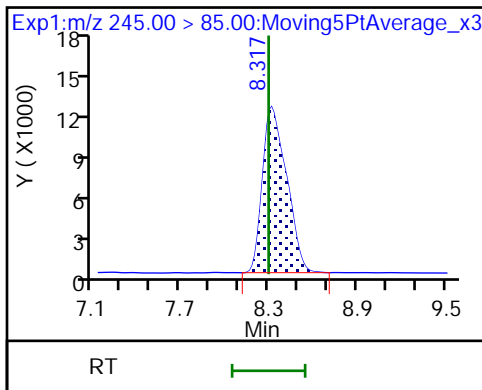
6 NVHOS



7 PFO2HxA

8 PEPA

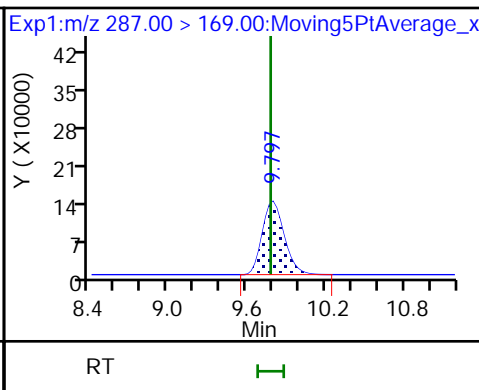
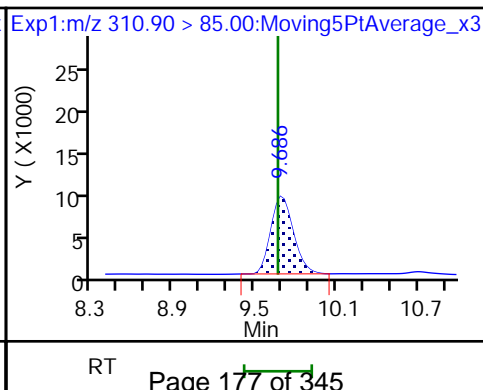
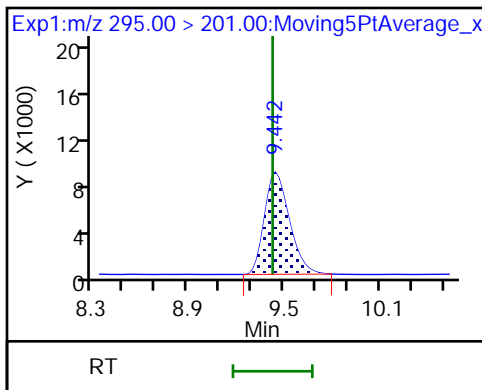
9 PES



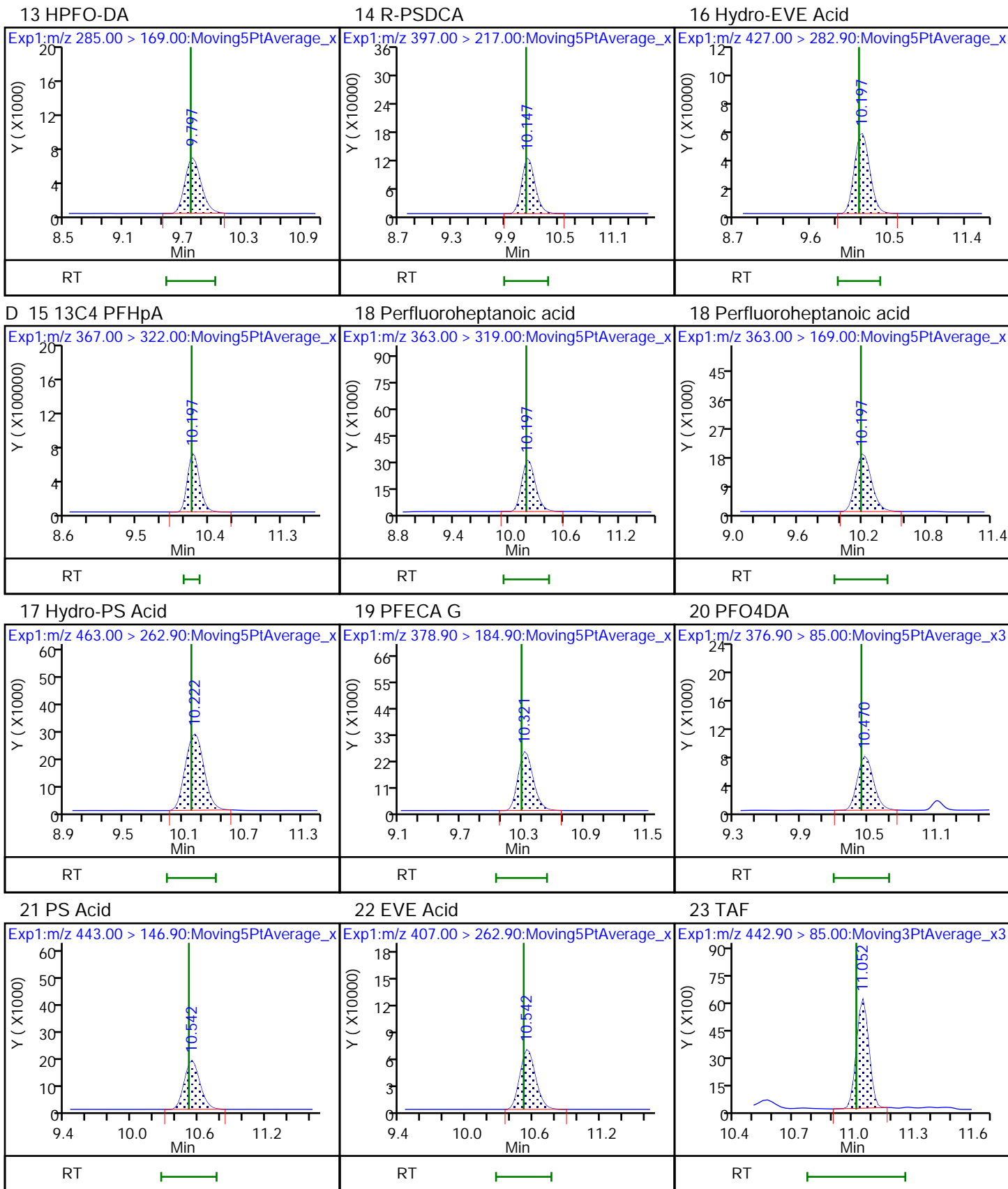
10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

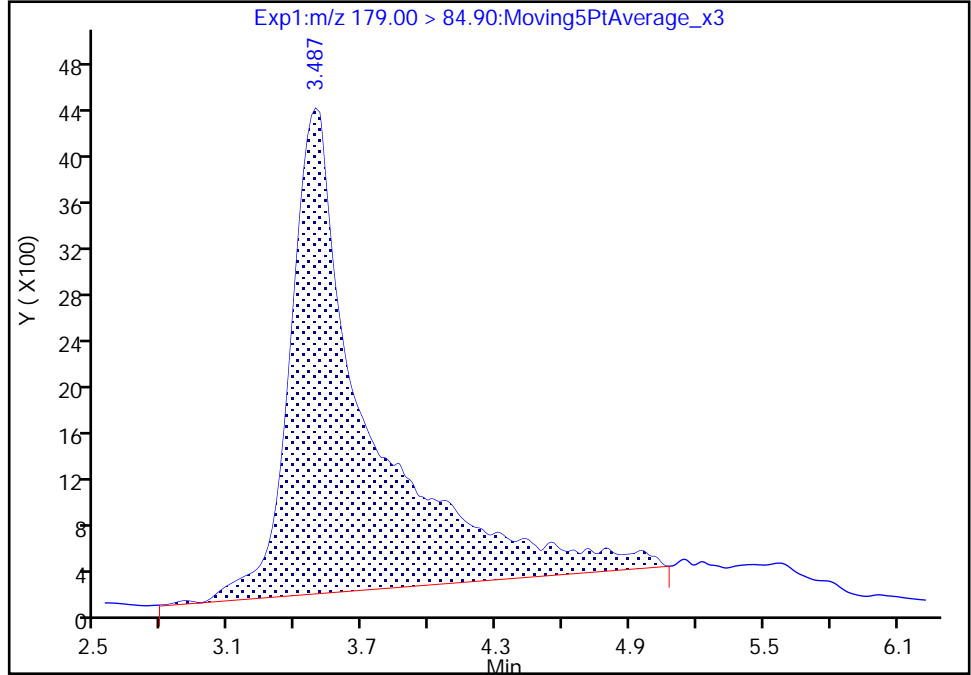
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Injection Date: 15-Jan-2021 17:15:59 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

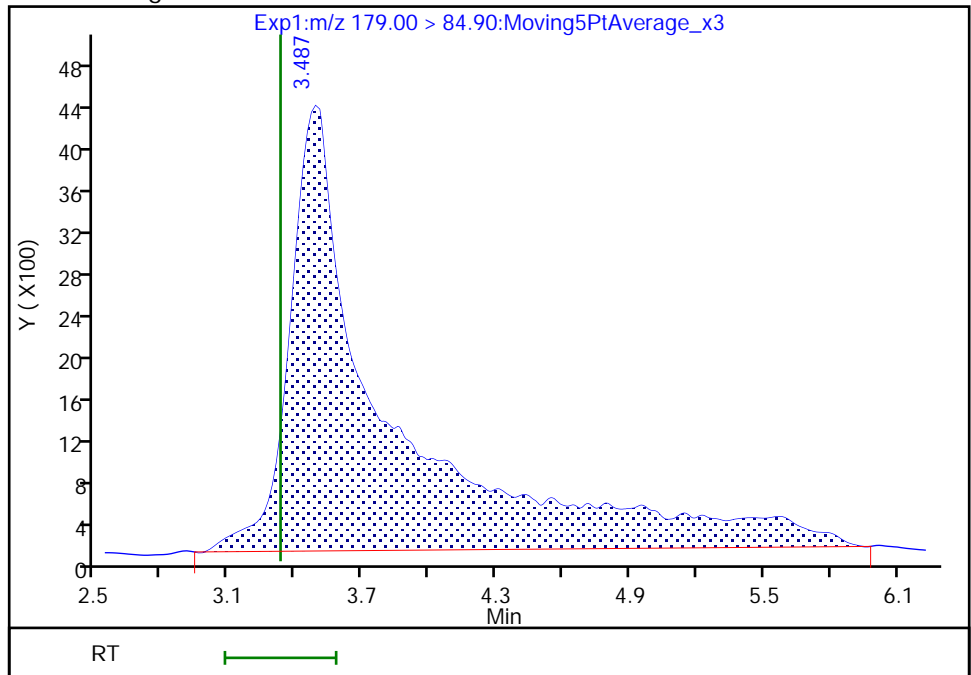
RT: 3.49  
Area: 103967  
Amount: 0.006070  
Amount Units: ng/ml

Processing Integration Results



RT: 3.49  
Area: 131909  
Amount: 0.009425  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:51:09  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 180 of 345

Eurofins TestAmerica, Sacramento

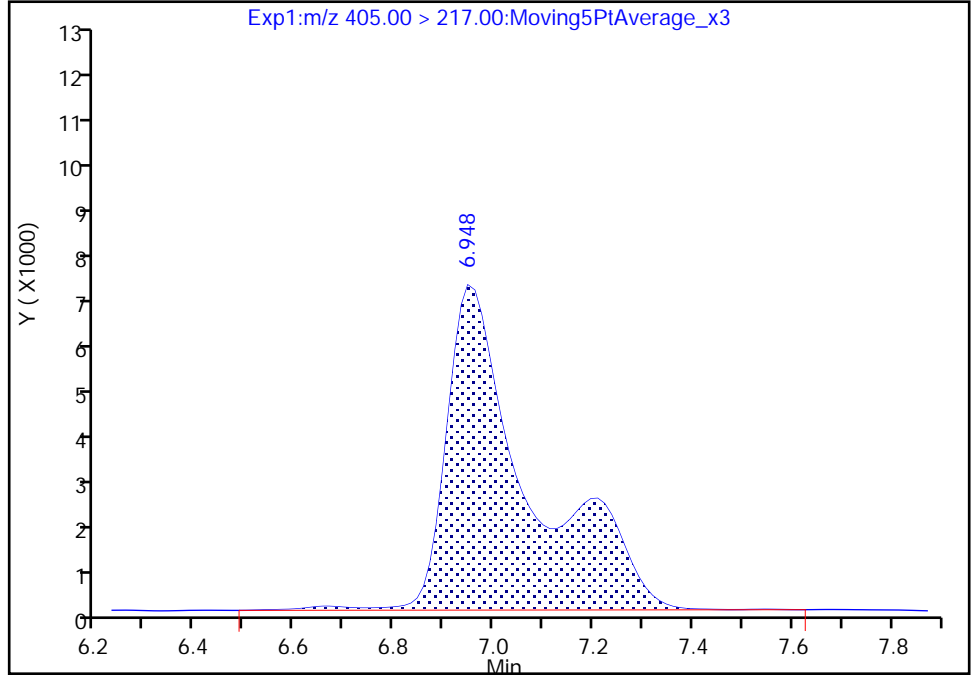
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_007.d  
Injection Date: 15-Jan-2021 17:15:59 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

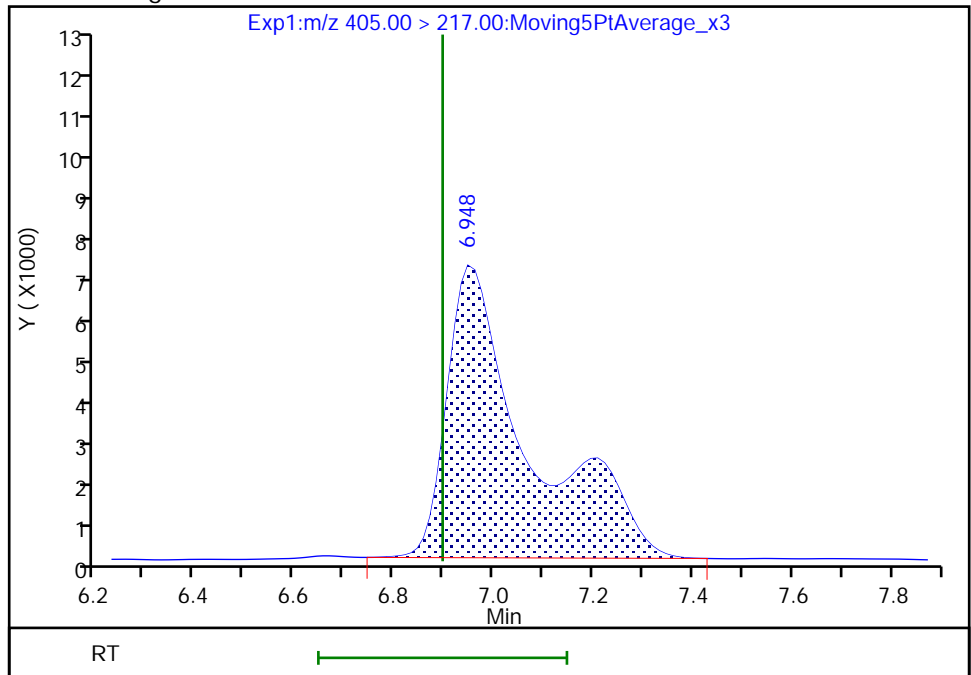
RT: 6.95  
Area: 80190  
Amount: 0.009692  
Amount Units: ng/ml

Processing Integration Results



RT: 6.95  
Area: 78410  
Amount: 0.009528  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:48:39  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

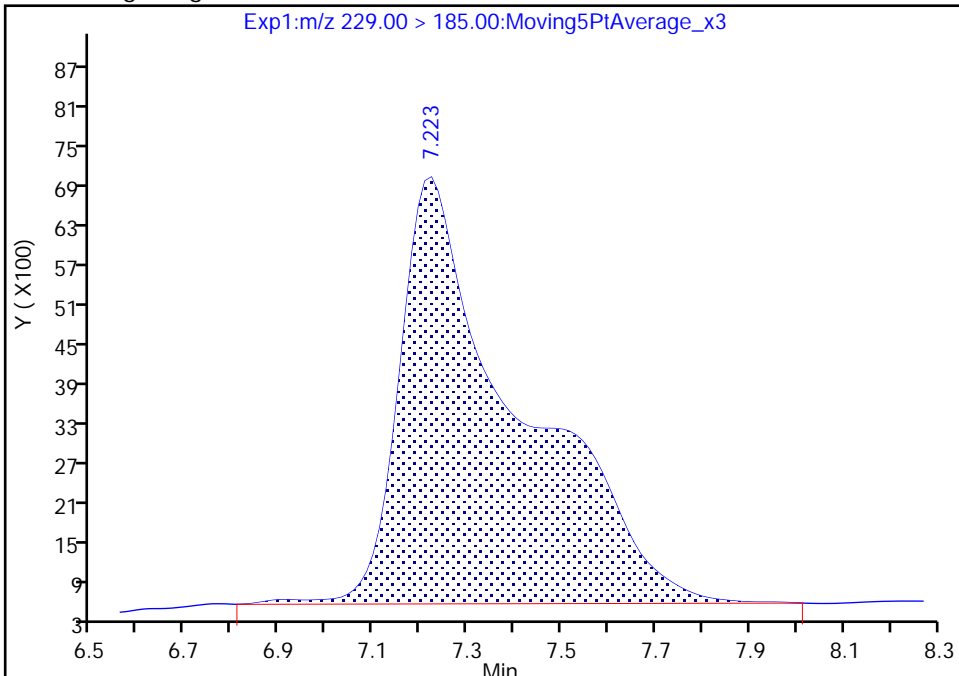
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Injection Date: 15-Jan-2021 17:15:59 Instrument ID: A7\_N  
Lims ID: IC STD 4  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

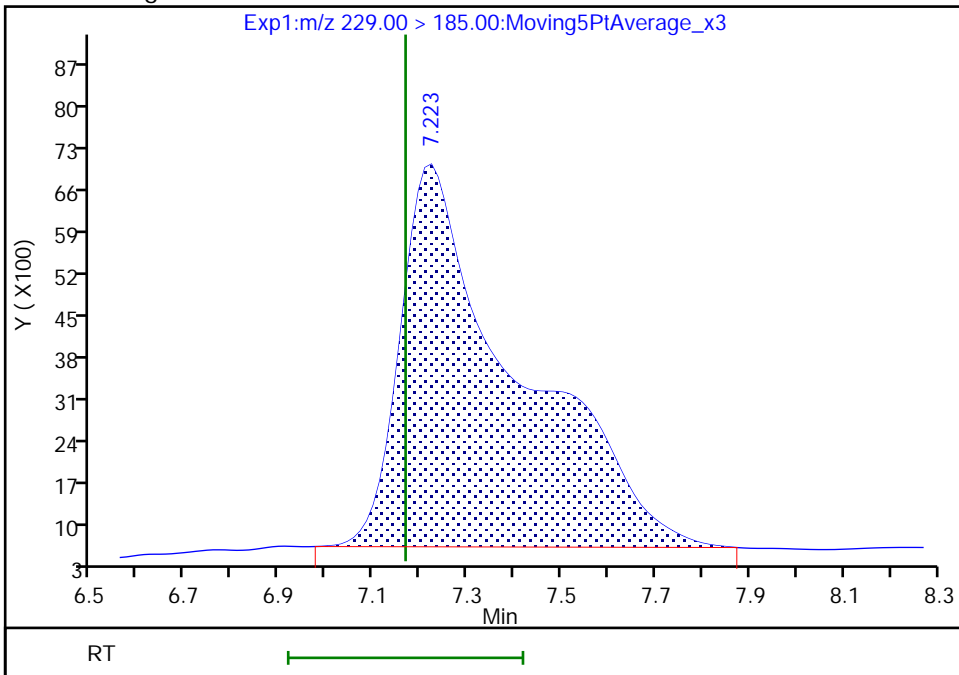
RT: 7.22  
Area: 113656  
Amount: 0.009310  
Amount Units: ng/ml

Processing Integration Results



RT: 7.22  
Area: 110630  
Amount: 0.009440  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:48:46  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_008.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 15-Jan-2021 17:33:34 ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (53)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:40 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:49:21

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.435	3.330	0.105		327969	0.0234		93.7	747	M
2 R-EVE										M
405.00 > 217.00	6.935	6.897	0.038		191479	0.0233		93.1	2684	M
3 R-PSDA										
440.90 > 241.00	7.017	6.975	0.042		130129	0.0212		84.9	2599	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.099	7.058	0.041		523199	0.0237		94.8	11118	
5 PMPA										
229.00 > 185.00	7.209	7.168	0.041		272167	0.0242		96.8	328	
6 NVHOS										
297.00 > 135.00	7.706	7.676	0.030		442534	0.0251		100	6198	
7 PFO2HxA										
245.00 > 85.00	8.316	8.297	0.019		325558	0.0243		97.2	3068	
8 PEPA										
278.90 > 234.90	8.951	8.917	0.035		178003	0.0244		97.7	1525	
9 PES										
314.90 > 135.00	9.222	9.206	0.016		2173909	0.0255		102	46868	
10 PFECA B										
295.00 > 201.00	9.442	9.426	0.016		215419	0.0249		99.8	6680	
11 PFO3OA										
310.90 > 85.00	9.686	9.669	0.017		238696	0.0242		96.8	4145	
13 HPFO-DA										
285.00 > 169.00	9.796	9.779	0.017	1.000	176123	0.0242		96.6	5160	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.796	9.779	0.017		1594077	0.2578		103	46405	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.147	10.133	0.014		2810550	0.0246		98.2	67773	
16 Hydro-EVE Acid										
427.00 > 282.90	10.196	10.159	0.037		1634846	0.0261		104	26222	
D 15 13C4 PFHpA										
367.00 > 322.00	10.196	10.185	0.011		6892186	0.2656		106	167140	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.196	10.185	0.011	1.000	699427	0.0243	Target=0.00	97.3	8460	
363.00 > 169.00	10.196	10.185	0.011	1.000	425282		1.64(0.00-0.00)	97.3	6847	
17 Hydro-PS Acid										
463.00 > 262.90	10.221	10.185	0.036		922630	0.0252		101	23056	
19 PFECA G										
378.90 > 184.90	10.320	10.290	0.030		650333	0.0267		107	21207	
20 PFO4DA										
376.90 > 85.00	10.469	10.440	0.029		161499	0.0191		76.5	2294	
21 PS Acid										
443.00 > 146.90	10.542	10.514	0.028		432556	0.0271		109	14747	
22 EVE Acid										
407.00 > 262.90	10.542	10.514	0.028		1703030	0.0269		108	58189	
23 TAF										
442.90 > 85.00	11.038	11.018	0.020		67847	0.0275		110	387	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00053

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_008.d

Injection Date: 15-Jan-2021 17:33:34

Instrument ID: A7\_N

Lims ID: IC STD 5

Client ID:

Operator ID: abservice

ALS Bottle#: 8

Worklist Smp#: 6

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

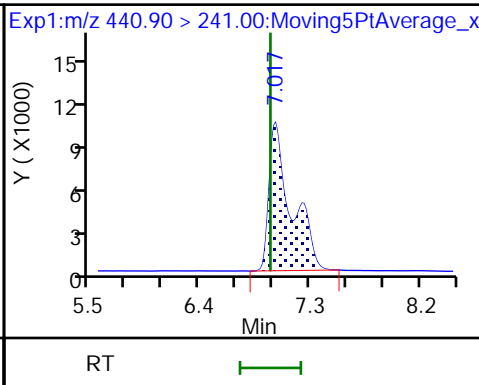
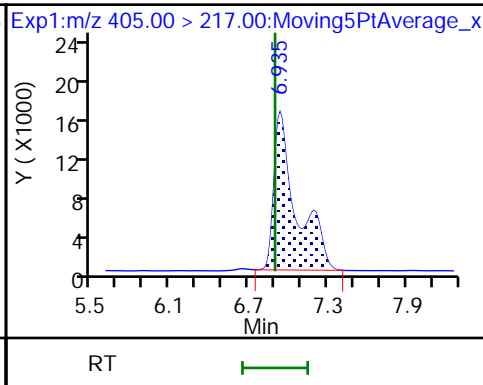
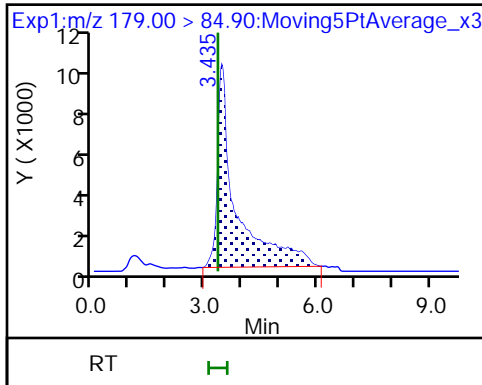
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

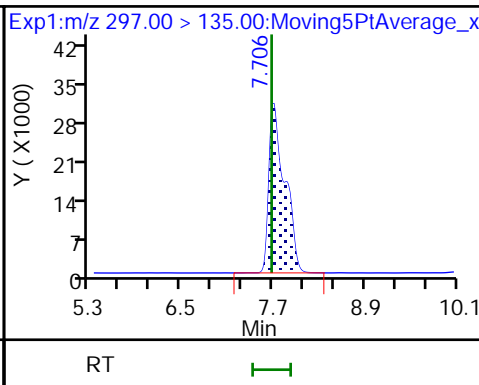
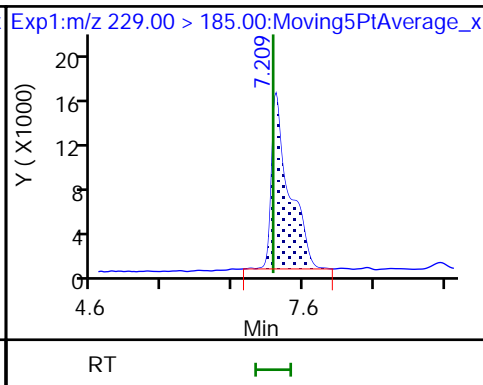
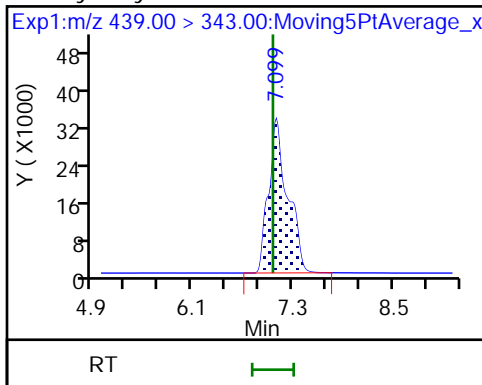
3 R-PSDA



4 Hydrolyzed PSDA

5 PMPA

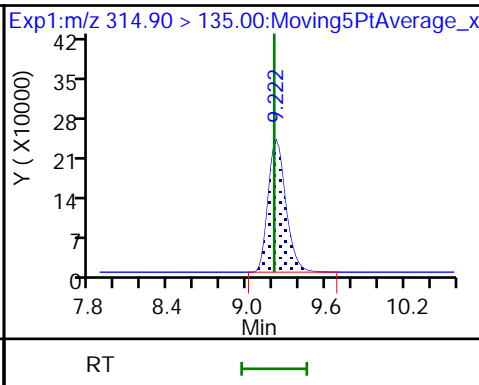
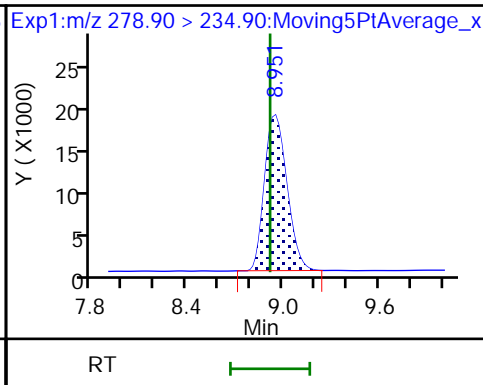
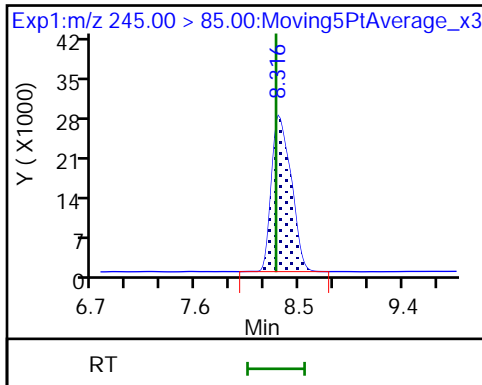
6 NVHOS



7 PFO2HxA

8 PEPA

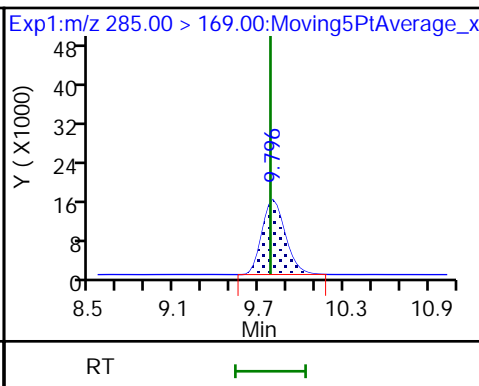
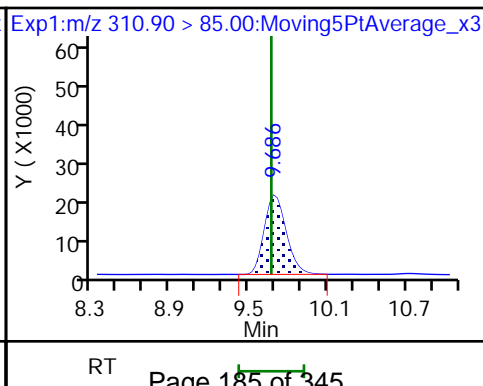
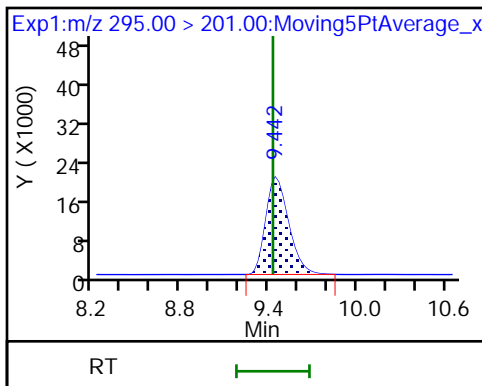
9 PES



10 PFECA B

11 PFO3OA

13 HPFO-DA

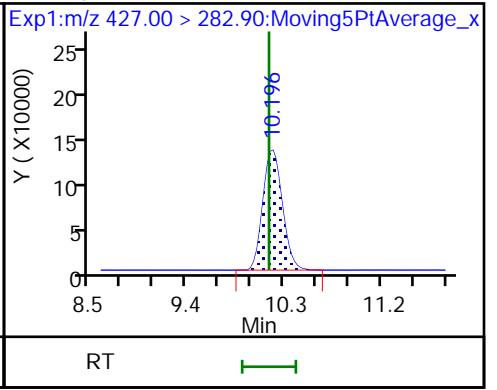
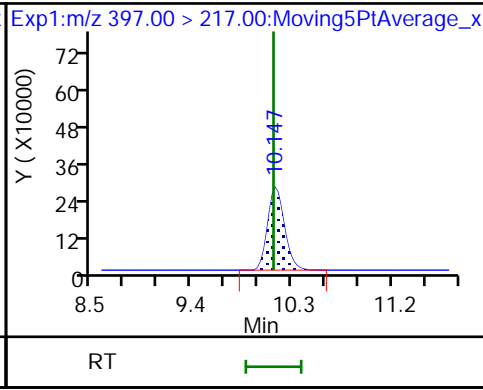
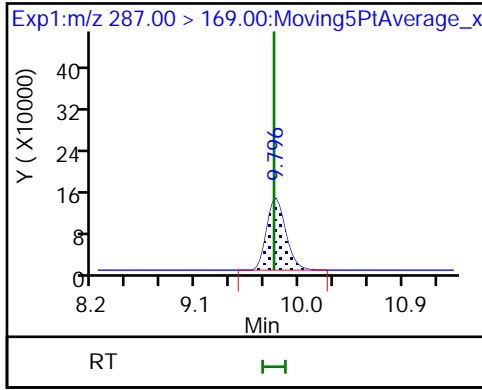




D 12 13C3 HFPO-DA

14 R-PSDCA

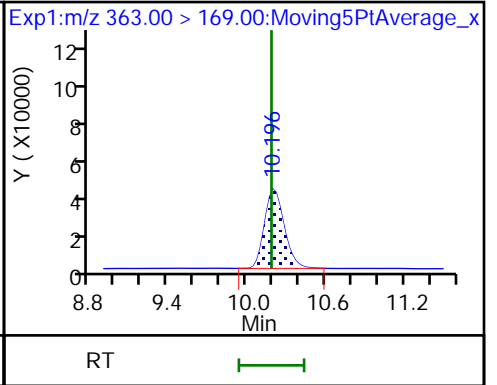
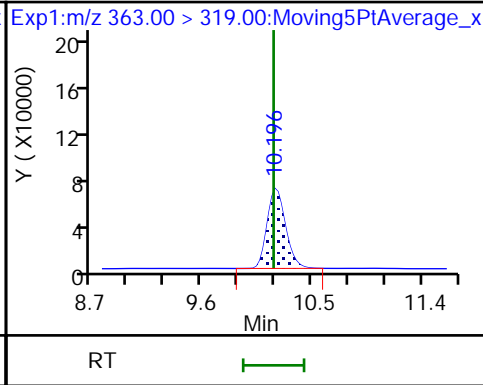
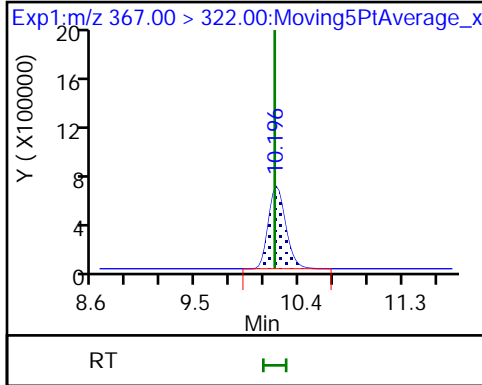
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

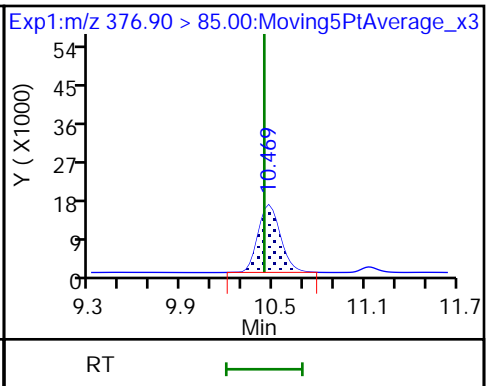
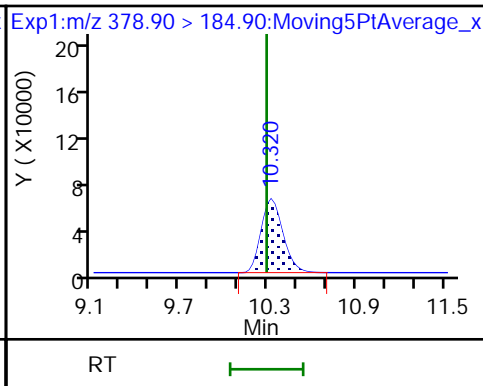
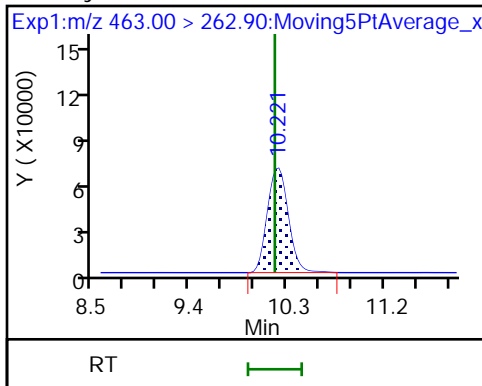
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

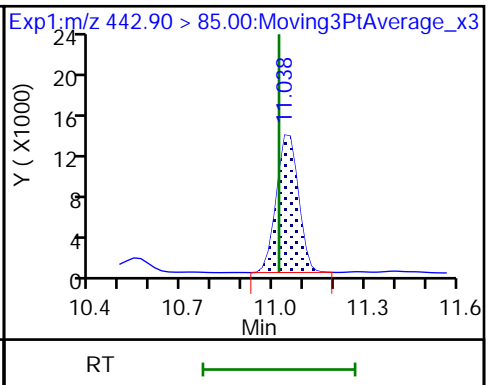
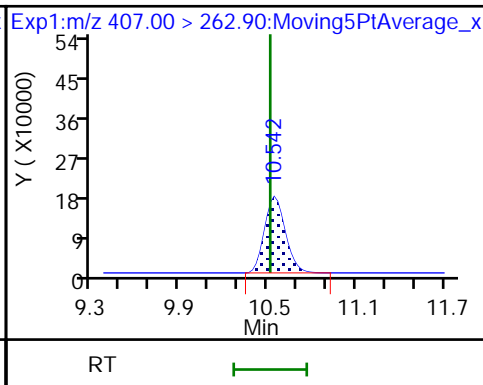
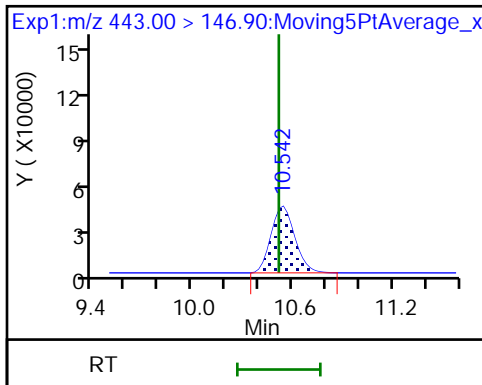
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF





Eurofins TestAmerica, Sacramento

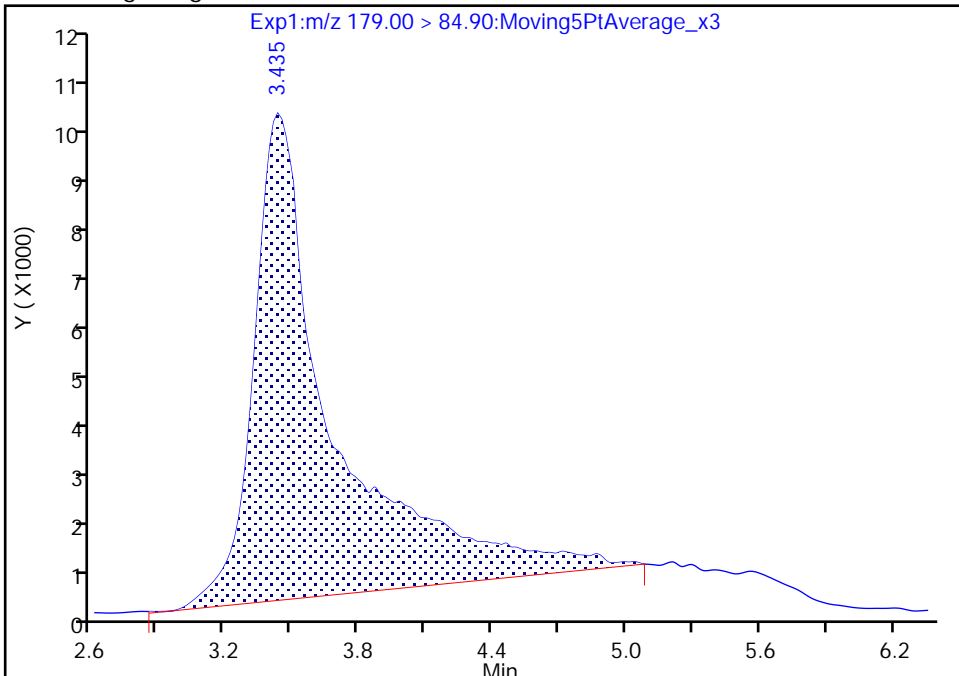
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Injection Date: 15-Jan-2021 17:33:34 Instrument ID: A7\_N  
Lims ID: IC STD 5  
Client ID:  
Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

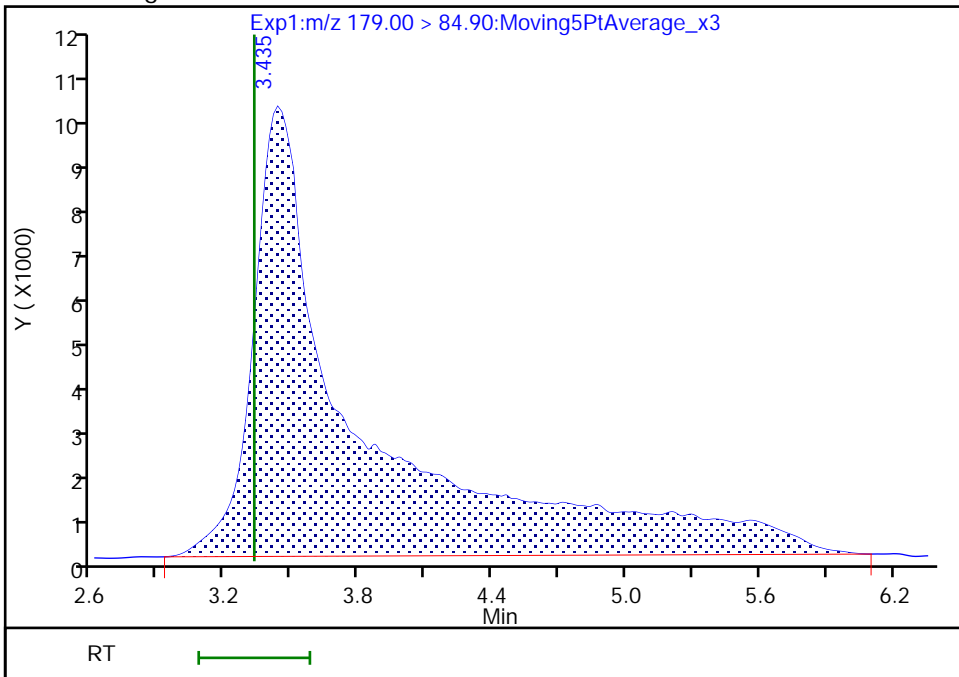
RT: 3.43  
Area: 238623  
Amount: 0.013462  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 327969  
Amount: 0.023434  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:50:56  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

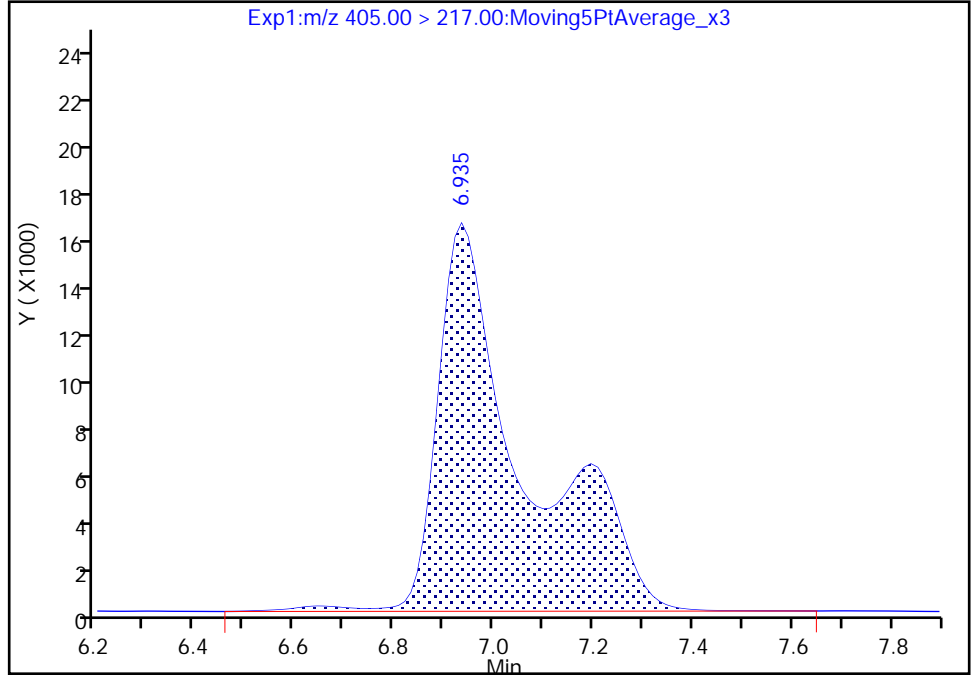
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 Injection Date: 15-Jan-2021 17:33:34 Instrument ID: A7\_N  
 Lims ID: IC STD 5  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

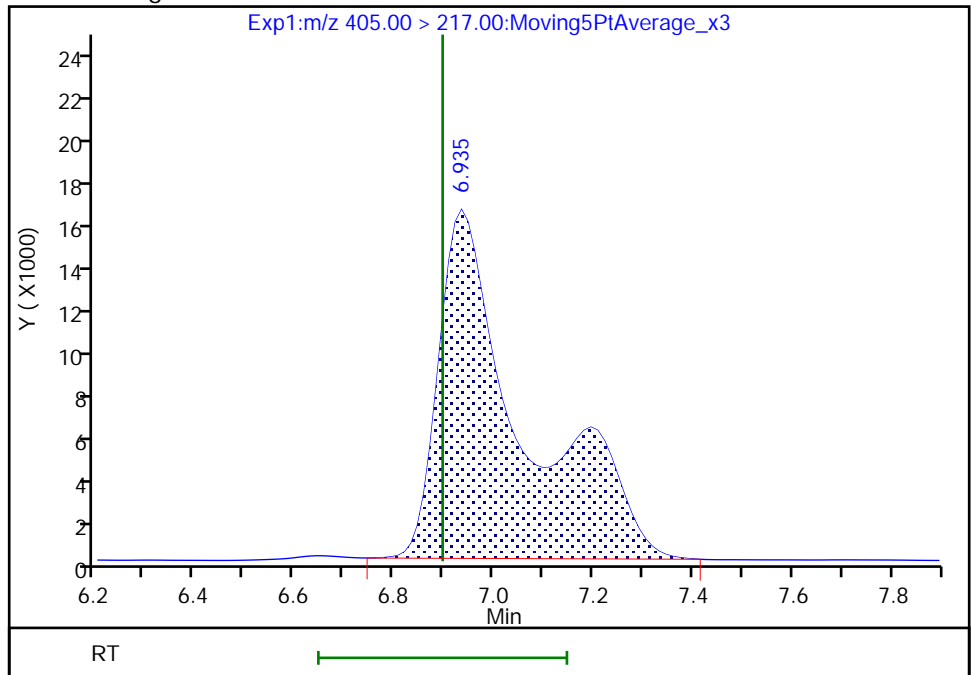
RT: 6.94  
 Area: 196288  
 Amount: 0.023774  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.94  
 Area: 191479  
 Amount: 0.023268  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_009.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 15-Jan-2021 17:51:09 ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (53)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:41 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:44:40

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.452	3.330	0.122		707532	0.0506		101	1515	M
2 R-EVE										
405.00 > 217.00	6.935	6.897	0.038		414799	0.0504		101	5988	
3 R-PSDA										M
440.90 > 241.00	7.003	6.975	0.028		249569	0.0407		81.4	4959	M
4 Hydrolyzed PSDA										
439.00 > 343.00	7.099	7.058	0.041		1031333	0.0467		93.4	16917	
5 PMPA										
229.00 > 185.00	7.209	7.168	0.041		565483	0.0510		102	708	
6 NVHOS										
297.00 > 135.00	7.691	7.676	0.015		904727	0.0513		103	10383	
7 PFO2HxA										
245.00 > 85.00	8.296	8.297	-0.001		694816	0.0519		104	6318	
8 PEPA										
278.90 > 234.90	8.932	8.917	0.016		405906	0.0557		111	3186	
9 PES										
314.90 > 135.00	9.203	9.206	-0.003		4573163	0.0536		107	99447	
10 PFECA B										
295.00 > 201.00	9.419	9.426	-0.007		435493	0.0504		101	13507	
11 PFO3OA										
310.90 > 85.00	9.659	9.669	-0.010		502857	0.0510		102	6184	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.769	9.779	-0.010		1536063	0.2485		99.4	44698	
13 HPFO-DA										
285.00 > 169.00	9.769	9.779	-0.010	1.000	348840	0.0497		99.3	10154	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.123	10.133	-0.010		6228288	0.0544		109	149086	
16 Hydro-EVE Acid										
427.00 > 282.90	10.172	10.159	0.013		3274620	0.0523		105	52213	
D 15 13C4 PFHpA										
367.00 > 322.00	10.172	10.185	-0.013		6779980	0.2613		105	218360	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.172	10.185	-0.013	1.000	1455335	0.0519	Target=0.00	104	17521	
363.00 > 169.00	10.172	10.185	-0.013	1.000	855426		1.70(0.00-0.00)	104	13758	
17 Hydro-PS Acid										
463.00 > 262.90	10.197	10.185	0.012		1975444	0.0540		108	49185	
19 PFECA G										
378.90 > 184.90	10.296	10.290	0.006		1331230	0.0547		109	43314	
20 PFO4DA										
376.90 > 85.00	10.445	10.440	0.005		470646	0.0558		112	5848	
21 PS Acid										
443.00 > 146.90	10.519	10.514	0.005		816851	0.0512		102	27495	
22 EVE Acid										
407.00 > 262.90	10.519	10.514	0.005		3290602	0.0520		104	83145	
23 TAF										
442.90 > 85.00	11.024	11.018	0.006		147498	0.0598		120	810	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00053

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_009.d

Injection Date: 15-Jan-2021 17:51:09

Instrument ID: A7\_N

Lims ID: IC STD 6

Client ID:

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 7

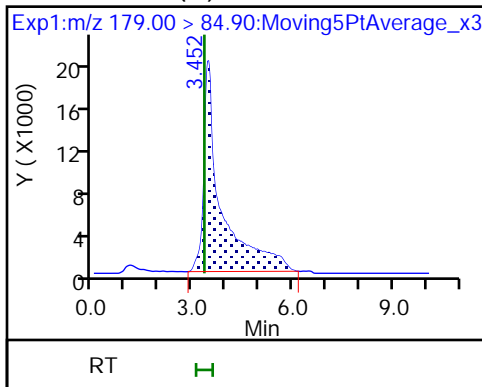
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

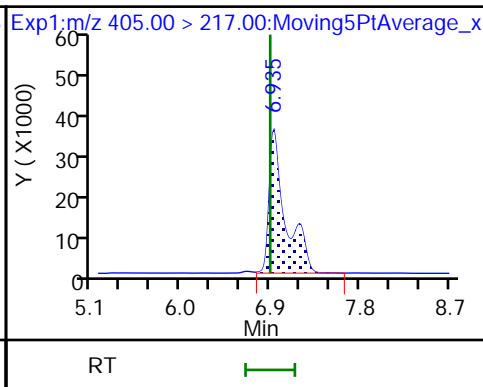
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

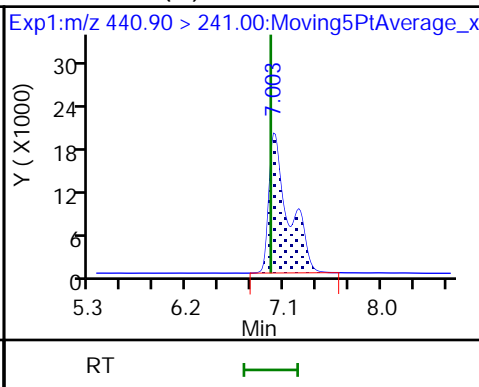
1 PFMOAA (M)



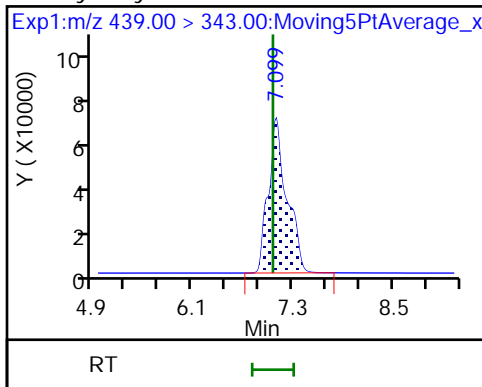
2 R-EVE



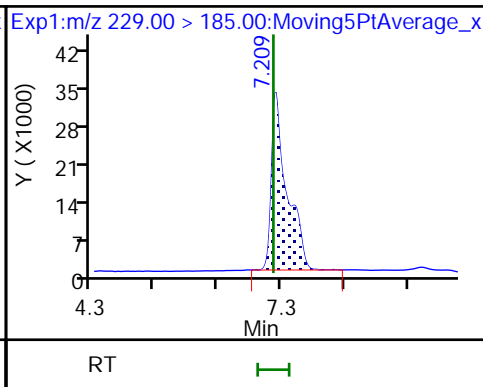
3 R-PSDA (M)



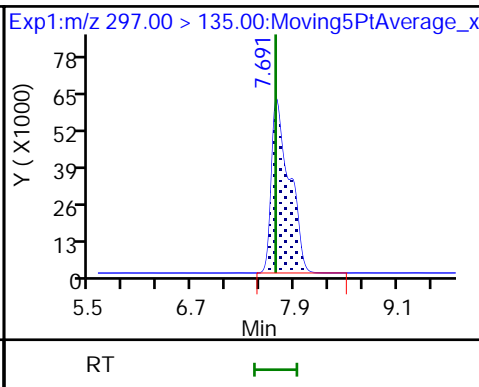
4 Hydrolyzed PSDA



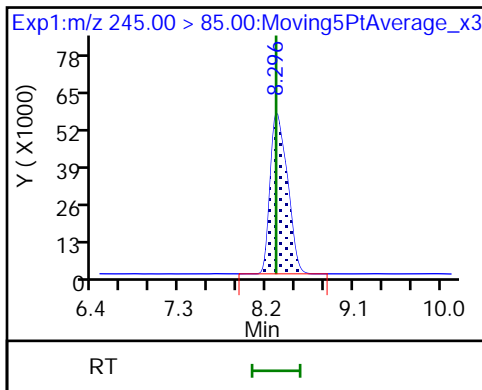
5 PMPA



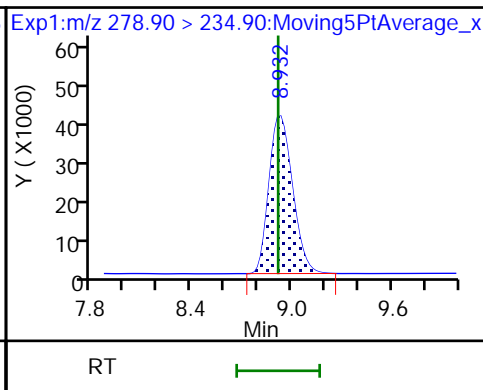
6 NVHOS



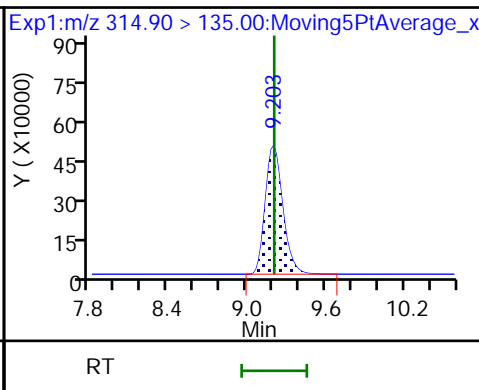
7 PFO2HxA



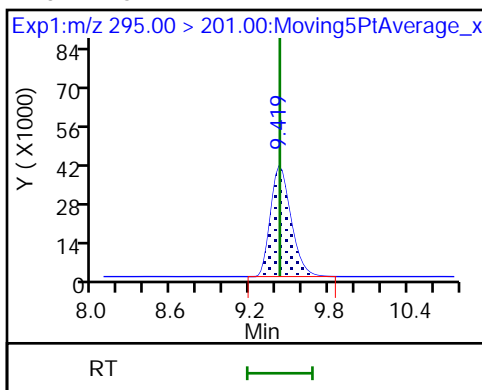
8 PEPA



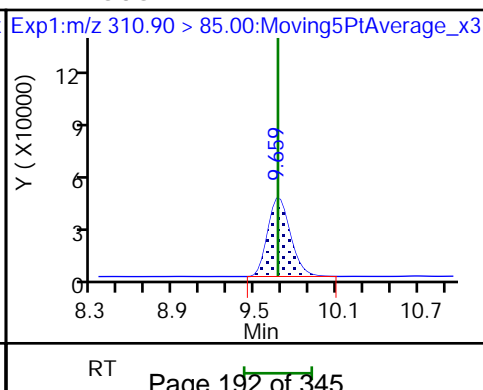
9 PES



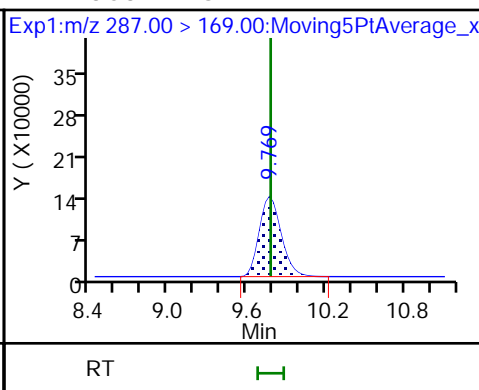
10 PFECA B

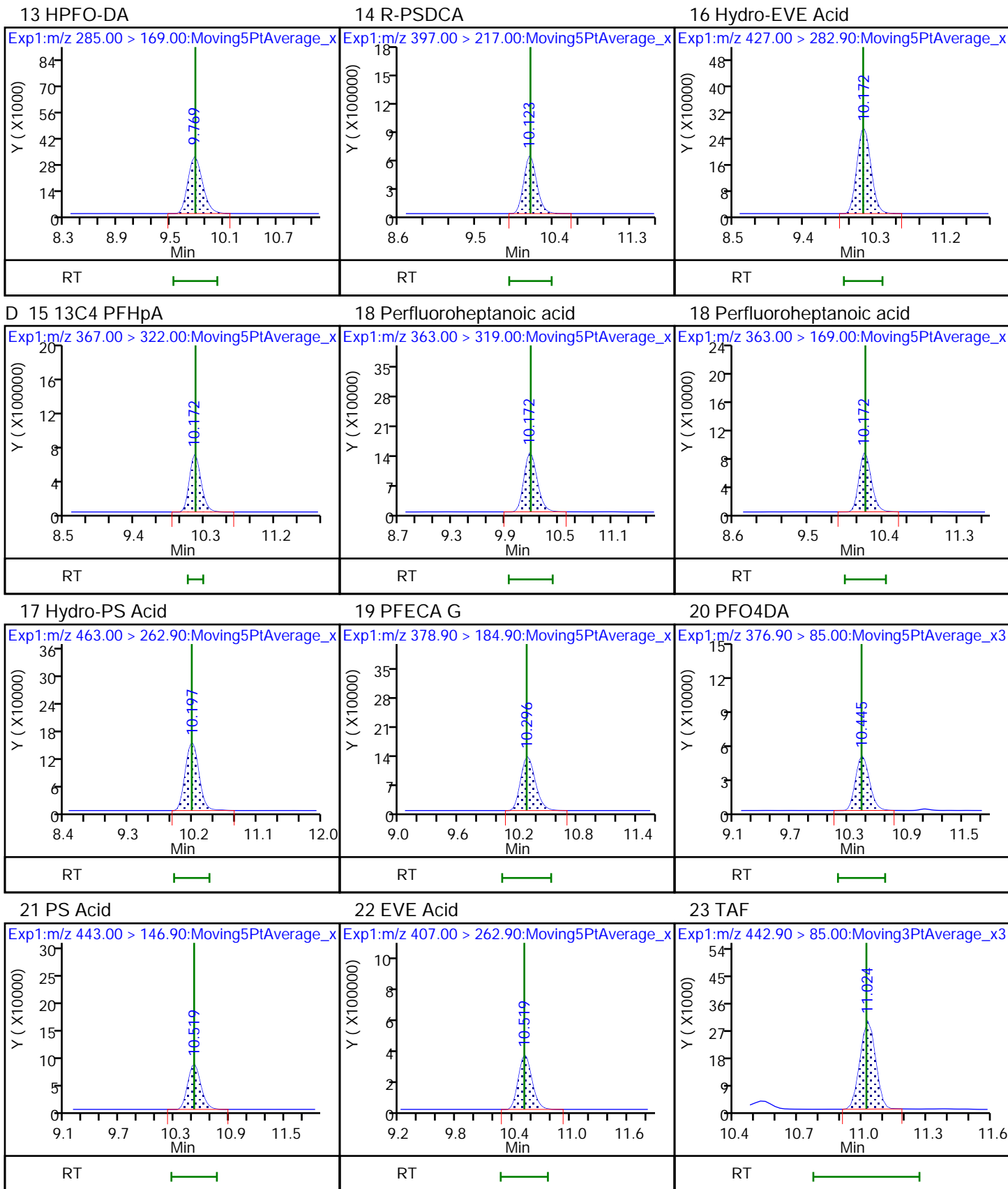


11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

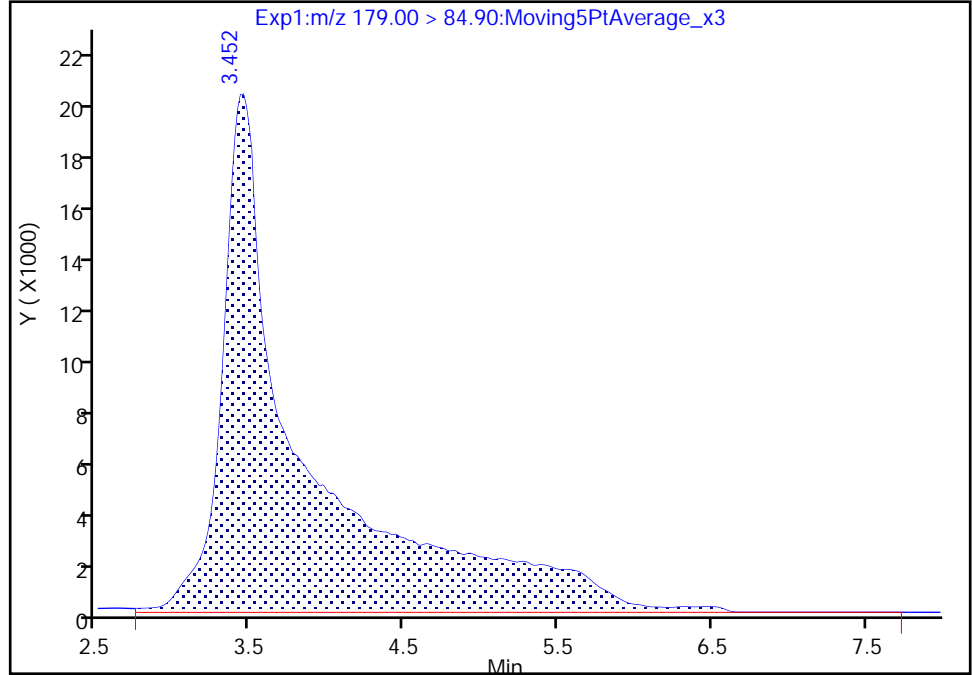
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_009.d  
Injection Date: 15-Jan-2021 17:51:09 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

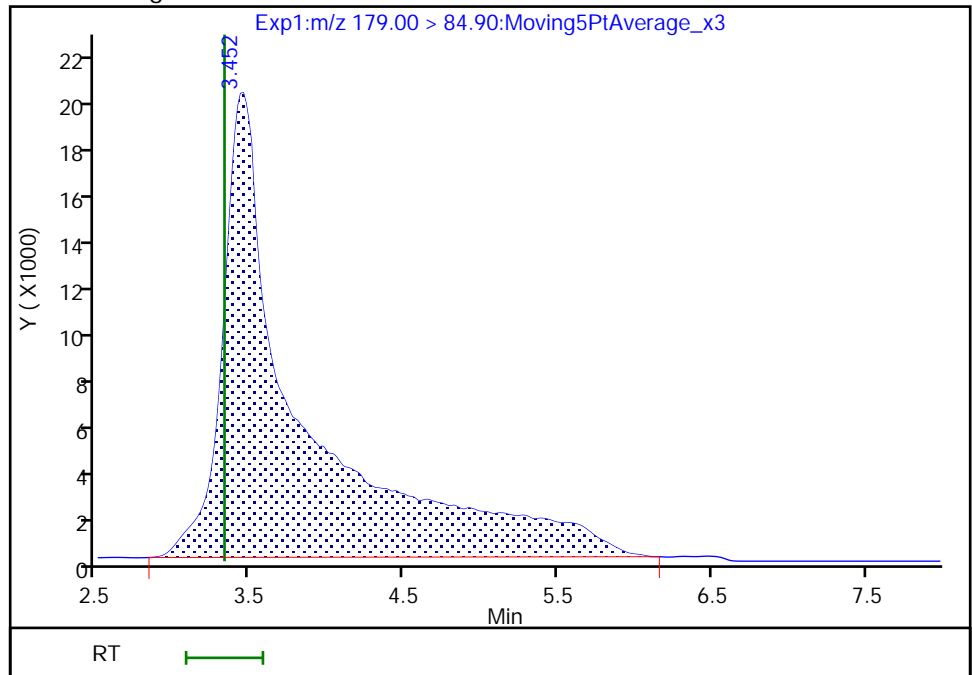
RT: 3.45  
Area: 748075  
Amount: 0.041023  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 707532  
Amount: 0.050555  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:50:41  
Audit Action: Manually Integrated

Audit Reason: Baseline

Euofins TestAmerica, Sacramento

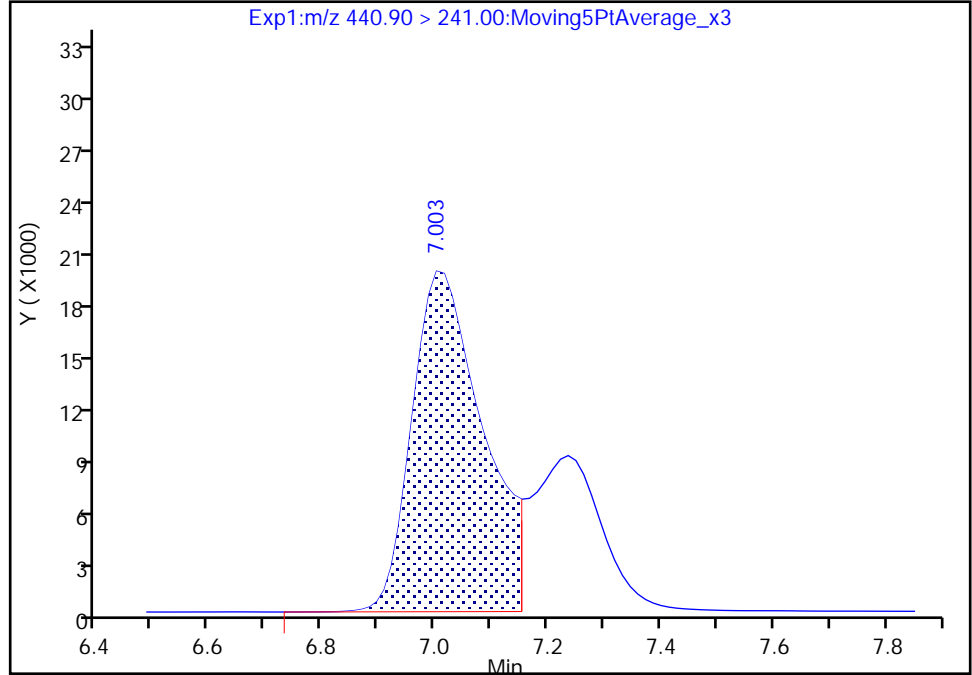
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_009.d  
Injection Date: 15-Jan-2021 17:51:09 Instrument ID: A7\_N  
Lims ID: IC STD 6  
Client ID:  
Operator ID: abservice ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

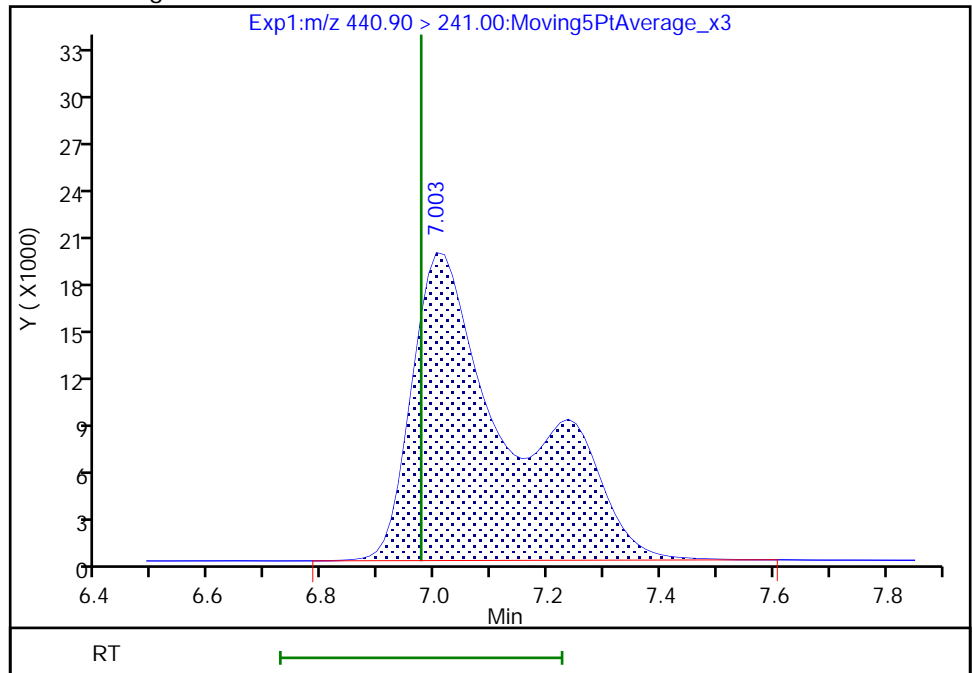
RT: 7.00  
Area: 172627  
Amount: 0.029070  
Amount Units: ng/ml

Processing Integration Results



RT: 7.00  
Area: 249569  
Amount: 0.040721  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:50:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_010.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 15-Jan-2021 18:08:43 ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (347)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:42 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:52:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	3.330	3.330	0.0	1420803	0.1015		102	2742	
2 R-EVE	405.00 > 217.00	6.897	6.897	0.0	794110	0.0965		96.5	7649	
3 R-PSDA	440.90 > 241.00	6.975	6.975	0.0	568716	0.0928		92.8	10610	M
4 Hydrolyzed PSDA	439.00 > 343.00	7.058	7.058	0.0	2154596	0.0975		97.5	32058	
5 PMPA	229.00 > 185.00	7.168	7.168	0.0	1104010	0.1002		100	1203	
6 NVHOS	297.00 > 135.00	7.676	7.676	0.0	1776716	0.1008		101	19224	
7 PFO2HxA	245.00 > 85.00	8.297	8.297	0.0	1346076	0.1005		100	11919	
8 PEPA	278.90 > 234.90	8.917	8.917	0.0	800837	0.1099		110	5700	
9 PES	314.90 > 135.00	9.206	9.206	0.0	8687347	0.1018		102	153493	
10 PFECA B	295.00 > 201.00	9.426	9.426	0.0	885675	0.1026		103	27302	
11 PFO3OA	310.90 > 85.00	9.669	9.669	0.0	1057183	0.1072		107	15219	
13 HPFO-DA	285.00 > 169.00	9.779	9.779	0.0	1.000	716567	0.0996	99.6	20586	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.779	9.779	0.0		1572463	0.2543	102	44914	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.133	10.133	0.0		11342280	0.0991		99.1	171846	
16 Hydro-EVE Acid										
427.00 > 282.90	10.159	10.159	0.0		6772093	0.1081		108	105784	
D 15 13C4 PFHpA										
367.00 > 322.00	10.185	10.185	0.0		7071556	0.2725		109	213885	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.185	10.185	0.0	1.000	2765743	0.0950	Target=0.00	95.0	31392	
363.00 > 169.00	10.185	10.185	0.0	1.000	1677340		1.65(0.00-0.00)	95.0	25278	
17 Hydro-PS Acid										
463.00 > 262.90	10.185	10.185	0.0		3726480	0.1019		102	68218	
19 PFECA G										
378.90 > 184.90	10.290	10.290	0.0		2448058	0.1006		101	76487	
20 PFO4DA										
376.90 > 85.00	10.440	10.440	0.0		968226	0.1147		115	13430	
21 PS Acid										
443.00 > 146.90	10.514	10.514	0.0		1758817	0.1103		110	57162	
22 EVE Acid										
407.00 > 262.90	10.514	10.514	0.0		6439096	0.1017		102	155779	
23 TAF										
442.90 > 85.00	11.018	11.018	0.0		232347	0.0942		94.2	1052	

**QC Flag Legend**

Processing Flags

Review Flags

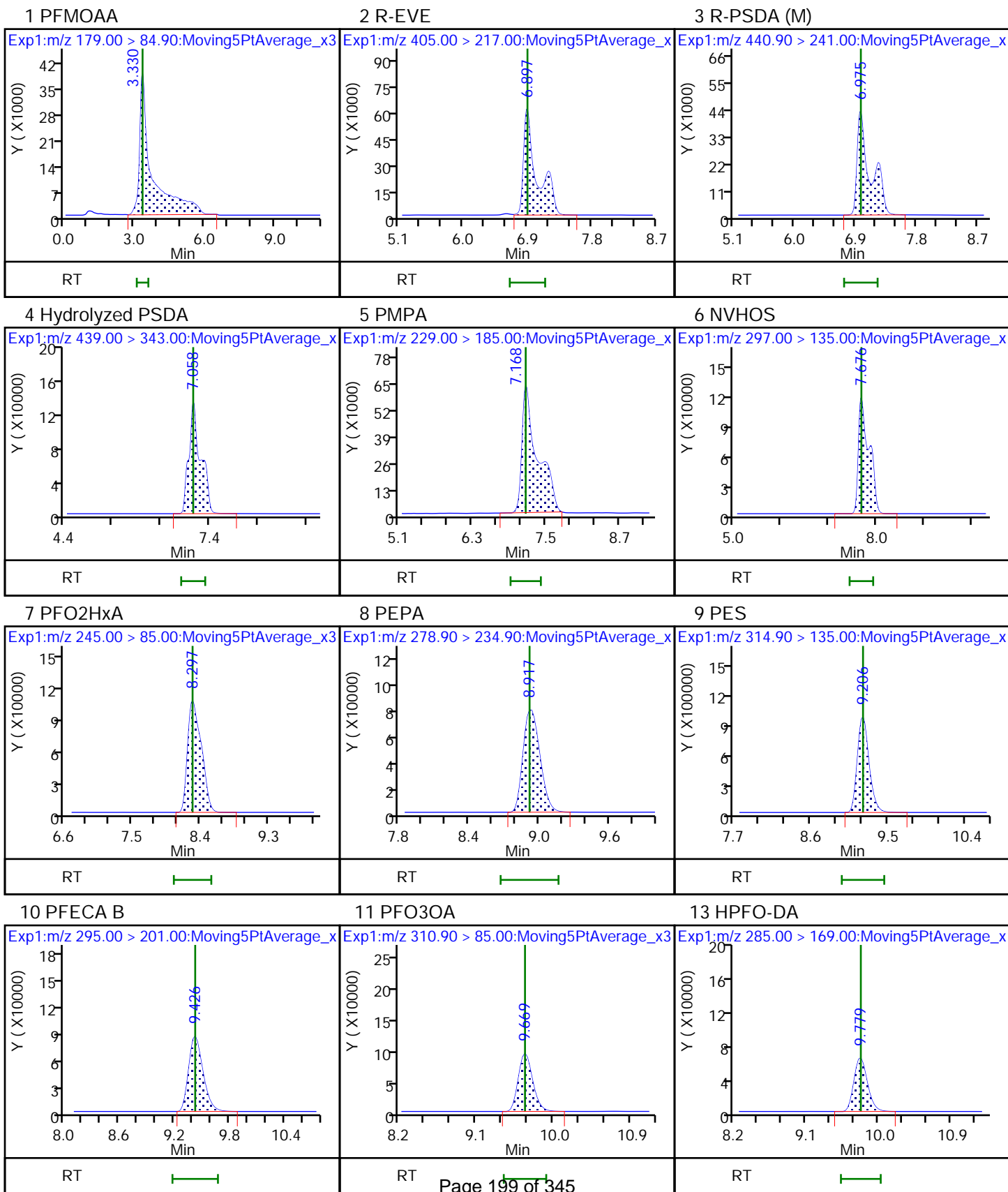
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00347

Amount Added: 1.00

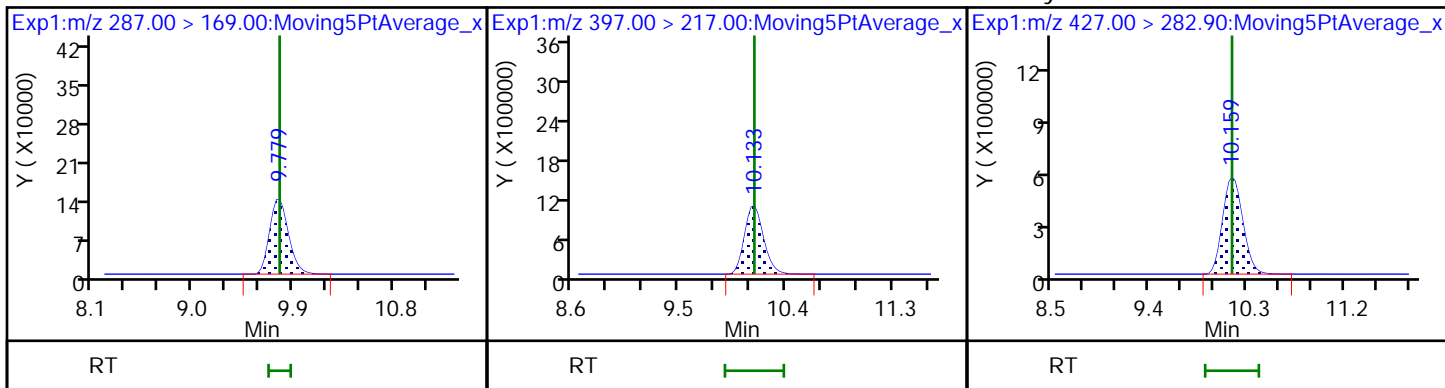
Units: mL



D 12 13C3 HFPO-DA

14 R-PSDCA

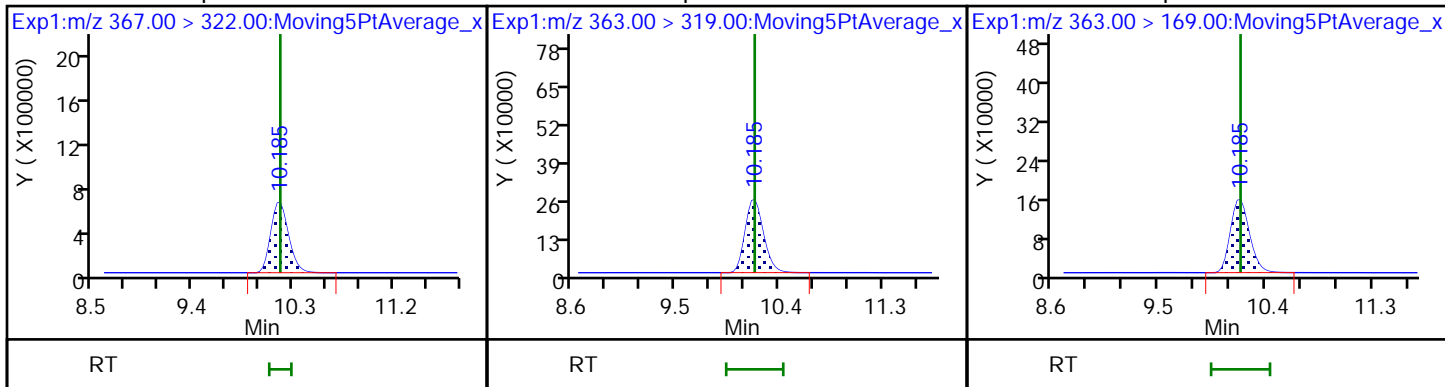
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

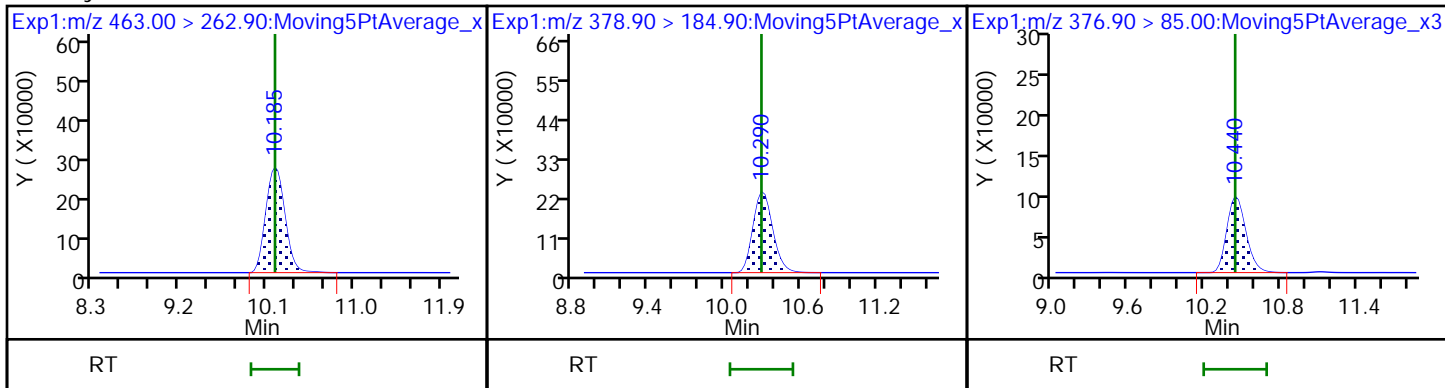
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

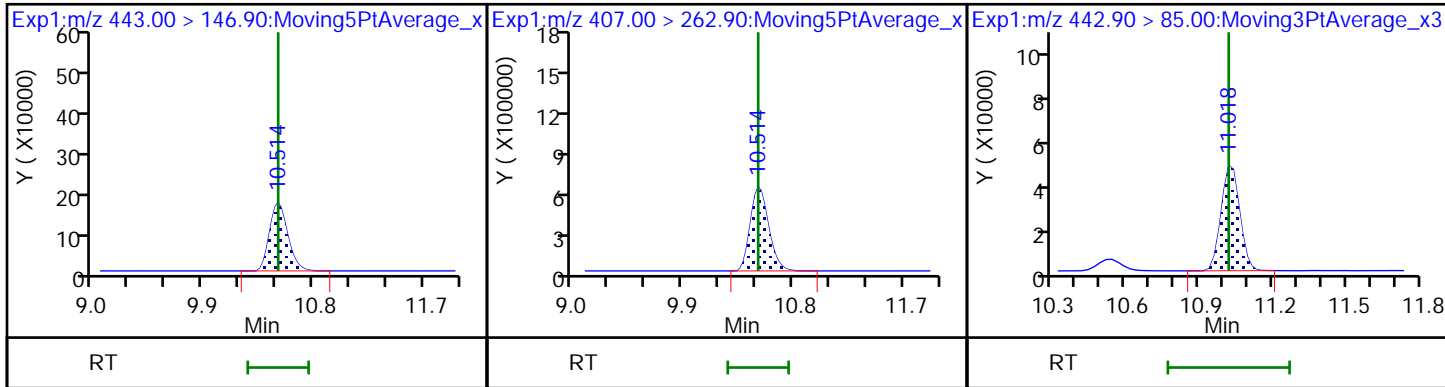
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF







Eurofins TestAmerica, Sacramento

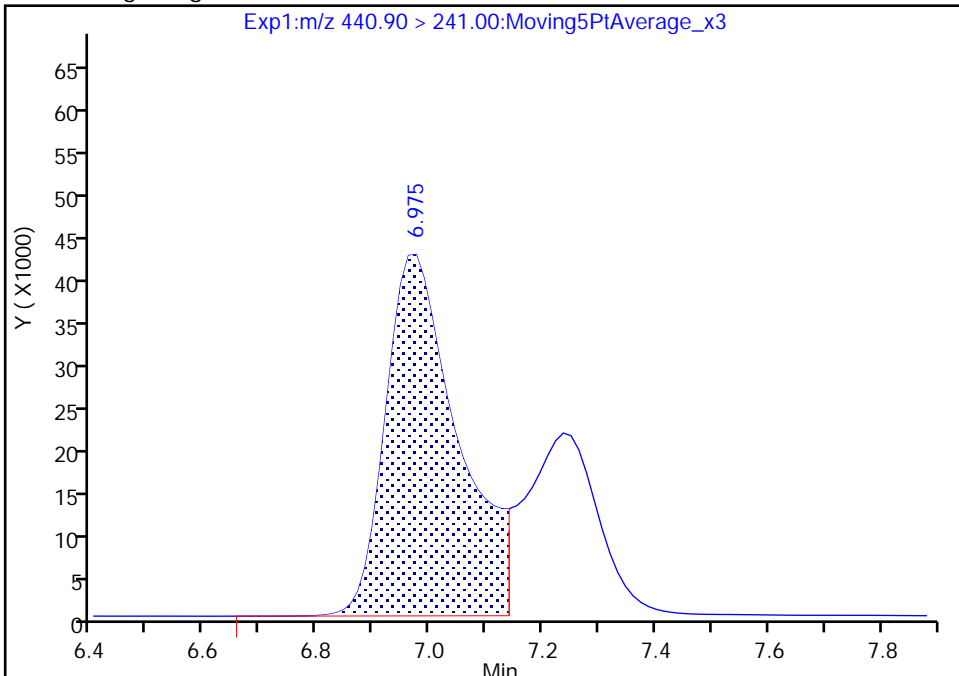
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_010.d  
 Injection Date: 15-Jan-2021 18:08:43 Instrument ID: A7\_N  
 Lims ID: IC STD 7  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

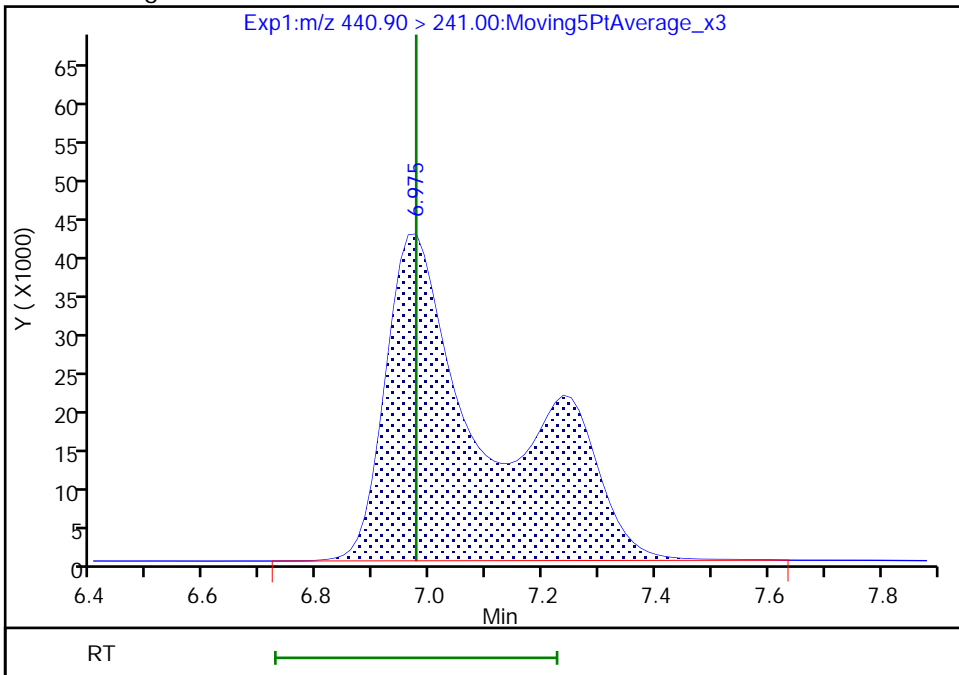
RT: 6.98  
 Area: 378705  
 Amount: 0.062162  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.98  
 Area: 568716  
 Amount: 0.092795  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:52:17  
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_011.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 15-Jan-2021 18:26:17 ALS Bottle#: 11 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (42)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:43 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:52:52

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	3.435	3.330	0.105	3451467	0.2466		98.6	7013	
2 R-EVE	405.00 > 217.00	6.918	6.897	0.021	2150982	0.2614		105	13025	M
3 R-PSDA	440.90 > 241.00	6.999	6.975	0.024	1650129	0.2692		108	23291	M
4 Hydrolyzed PSDA	439.00 > 343.00	7.081	7.058	0.023	6071334	0.2749		110	76525	
5 PMPA	229.00 > 185.00	7.191	7.168	0.023	2751727	0.2508		100	3662	
6 NVHOS	297.00 > 135.00	7.687	7.676	0.011	4338485	0.2461		98.4	42304	
7 PFO2HxA	245.00 > 85.00	8.317	8.297	0.020	3436679	0.2565		103	27125	
8 PEPA	278.90 > 234.90	8.924	8.917	0.008	1884755	0.2587		103	13595	
9 PES	314.90 > 135.00	9.214	9.206	0.008	20301255	0.2378		95.1	271153	
10 PFECA B	295.00 > 201.00	9.434	9.426	0.008	2187033	0.2533		101	68111	
11 PFO3OA	310.90 > 85.00	9.676	9.669	0.007	2643375	0.2680		107	38416	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.787	9.779	0.008	1557030	0.2519		101	44980	
13 HPFO-DA	285.00 > 169.00	9.787	9.779	0.008	1742828	0.2448	1.000	97.9	50519	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.121	10.133	-0.012		23474760	0.2051		82.0	220275	
16 Hydro-EVE Acid										
427.00 > 282.90	10.178	10.159	0.019		15469187	0.2469		98.8	164720	
D 15 13C4 PFHpA										
367.00 > 322.00	10.178	10.185	-0.007		6337927	0.2443		97.7	181971	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.178	10.185	-0.007	1.000	6422738	0.2468	Target=0.00	98.7	78734	
363.00 > 169.00	10.178	10.185	-0.007	1.000	3928519		1.63(0.00-0.00)	98.7	56286	
17 Hydro-PS Acid										
463.00 > 262.90	10.207	10.185	0.022		8978224	0.2456		98.2	158975	
19 PFECA G										
378.90 > 184.90	10.318	10.290	0.028		5531081	0.2272		90.9	163779	
20 PFO4DA										
376.90 > 85.00	10.449	10.440	0.009		2496829	0.2958		118	29641	
21 PS Acid										
443.00 > 146.90	10.525	10.514	0.011		3873272	0.2429		97.2	93673	
22 EVE Acid										
407.00 > 262.90	10.525	10.514	0.011		13892211	0.2195		87.8	189850	
23 TAF										
442.90 > 85.00	11.047	11.018	0.029		593386	0.2406		96.3	1678	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00042

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_011.d

Injection Date: 15-Jan-2021 18:26:17

Instrument ID: A7\_N

Lims ID: IC STD 8

Client ID:

Operator ID: abservice

ALS Bottle#: 11

Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

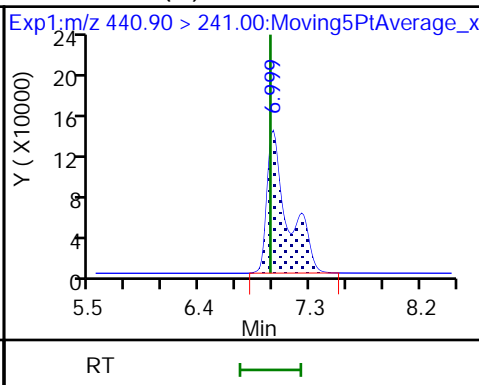
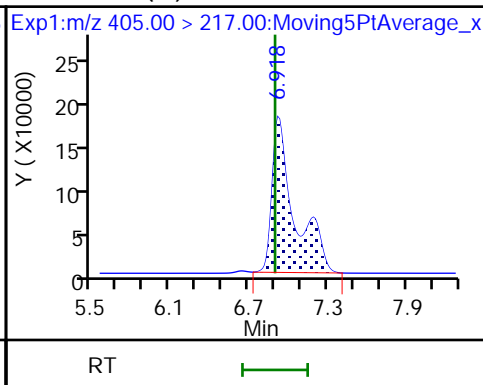
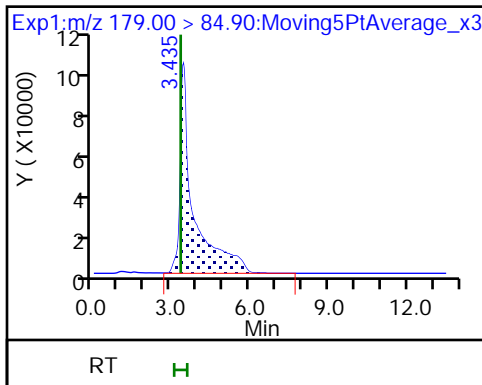
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA

2 R-EVE (M)

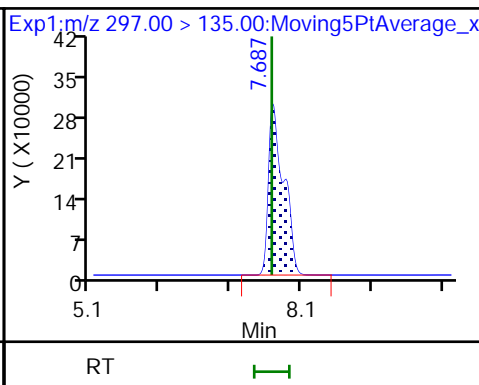
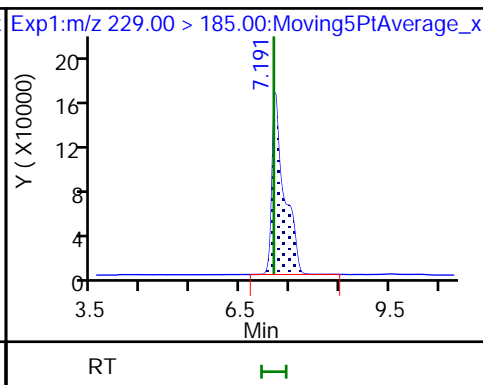
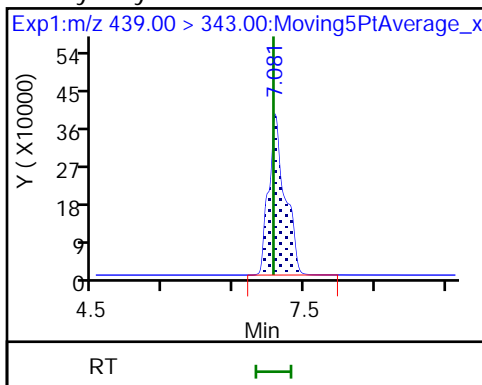
3 R-PSDA (M)



4 Hydrolyzed PSDA

5 PMPA

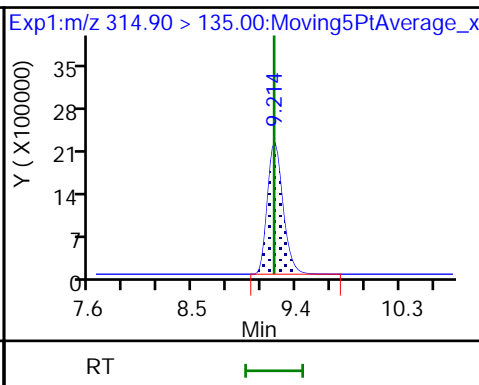
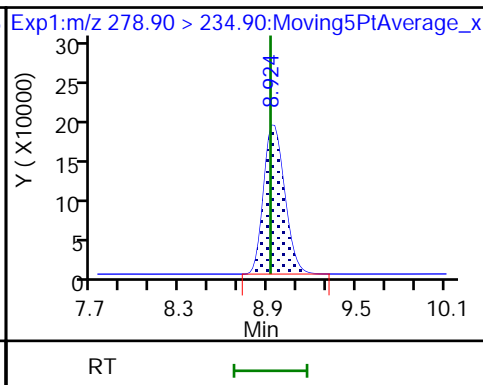
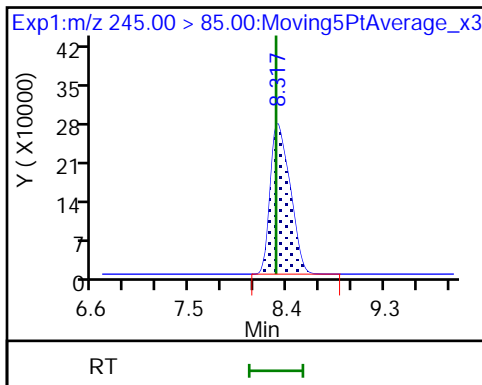
6 NVHOS



7 PFO2HxA

8 PEPA

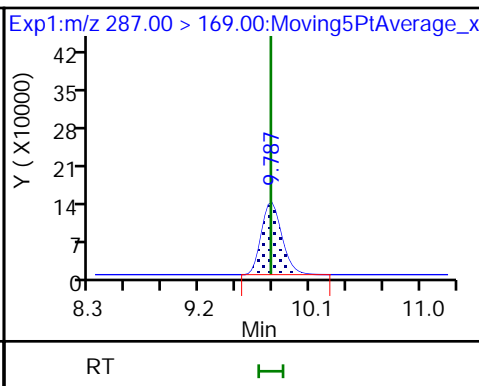
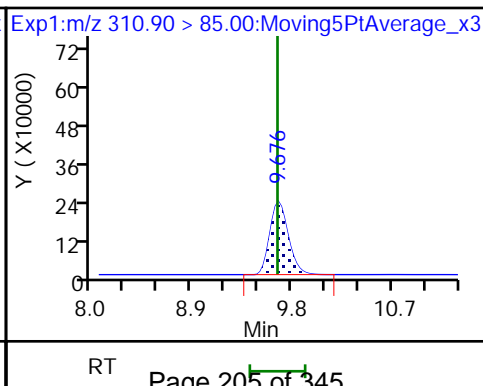
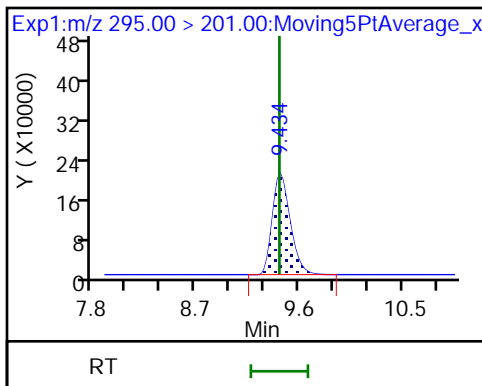
9 PES

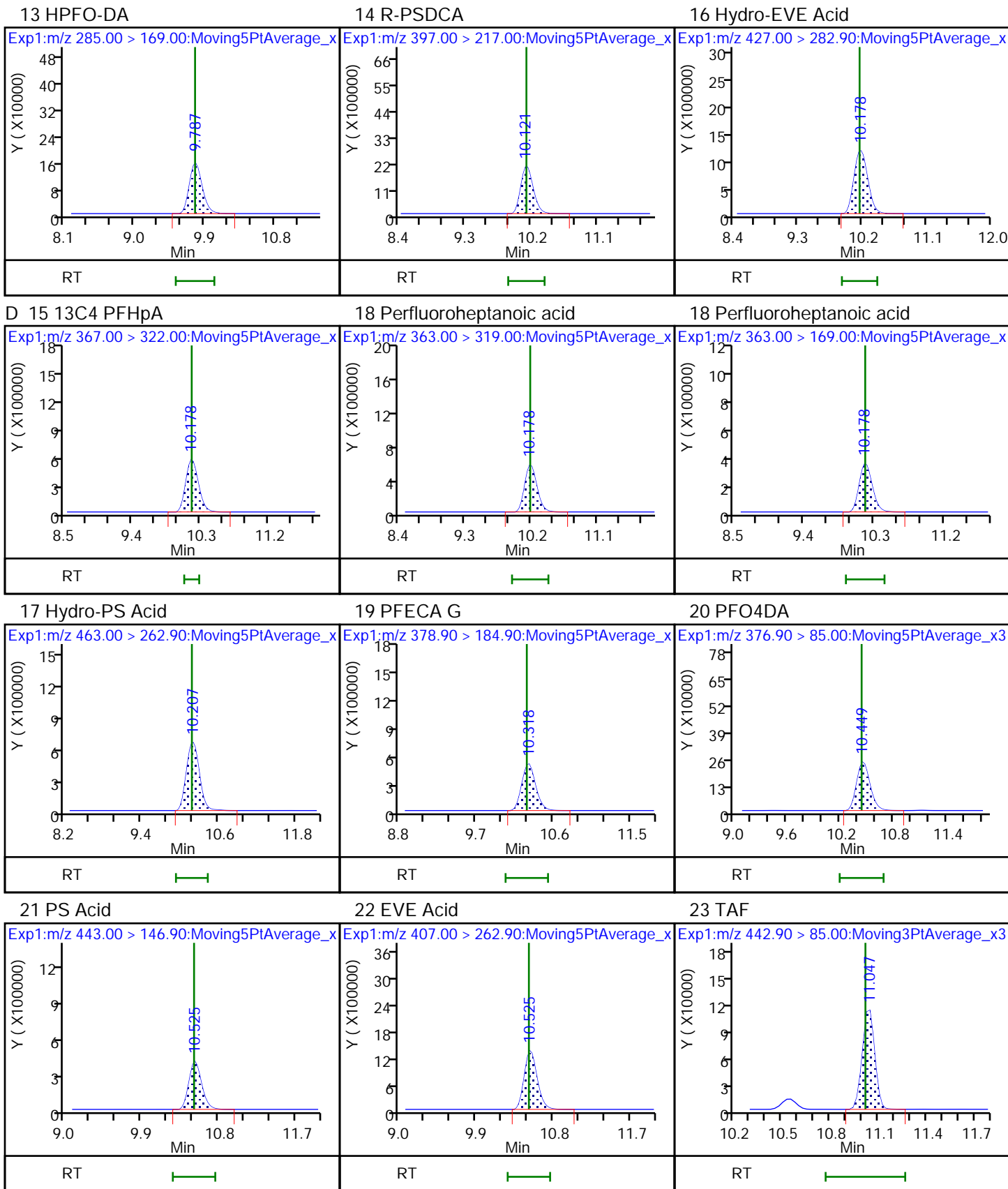


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







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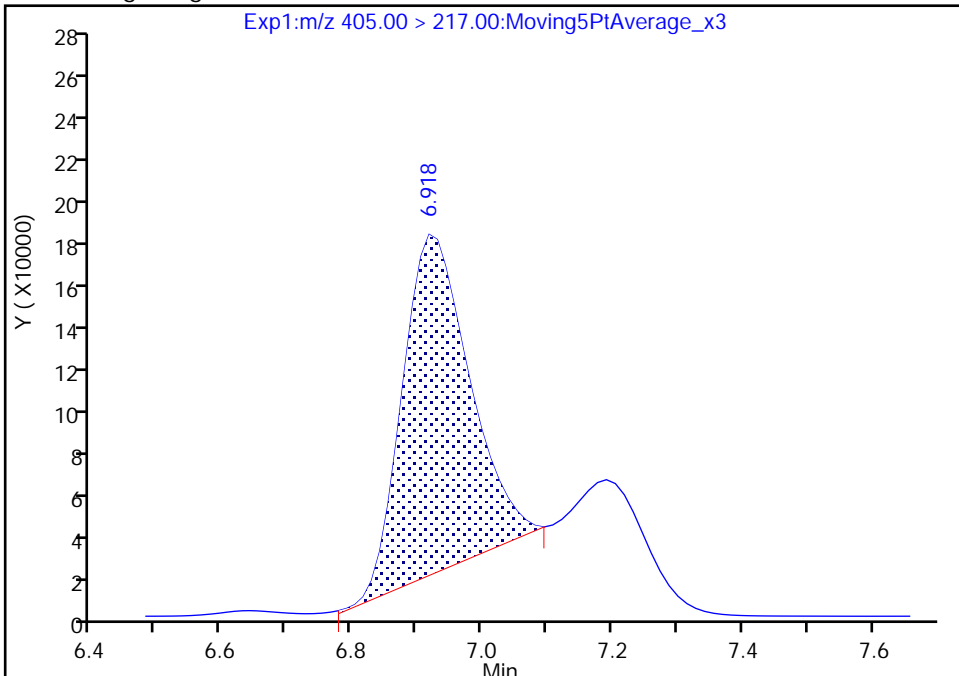
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_011.d  
Injection Date: 15-Jan-2021 18:26:17 Instrument ID: A7\_N  
Lims ID: IC STD 8  
Client ID:  
Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

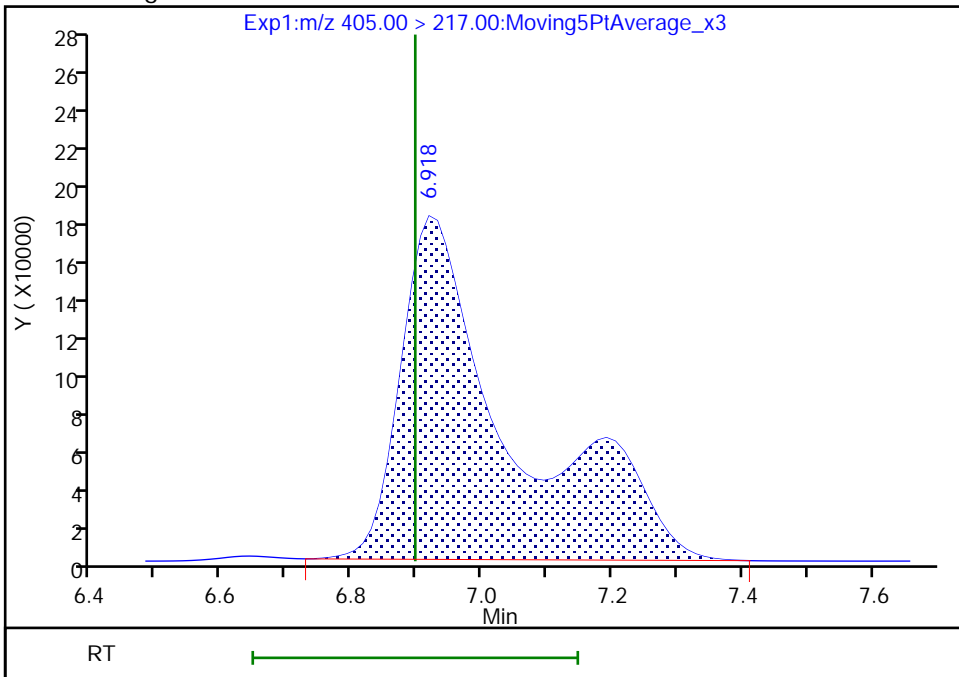
RT: 6.92  
Area: 1171069  
Amount: 0.142171  
Amount Units: ng/ml

Processing Integration Results



RT: 6.92  
Area: 2150982  
Amount: 0.261385  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:52:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 208 of 345

Eurofins TestAmerica, Sacramento

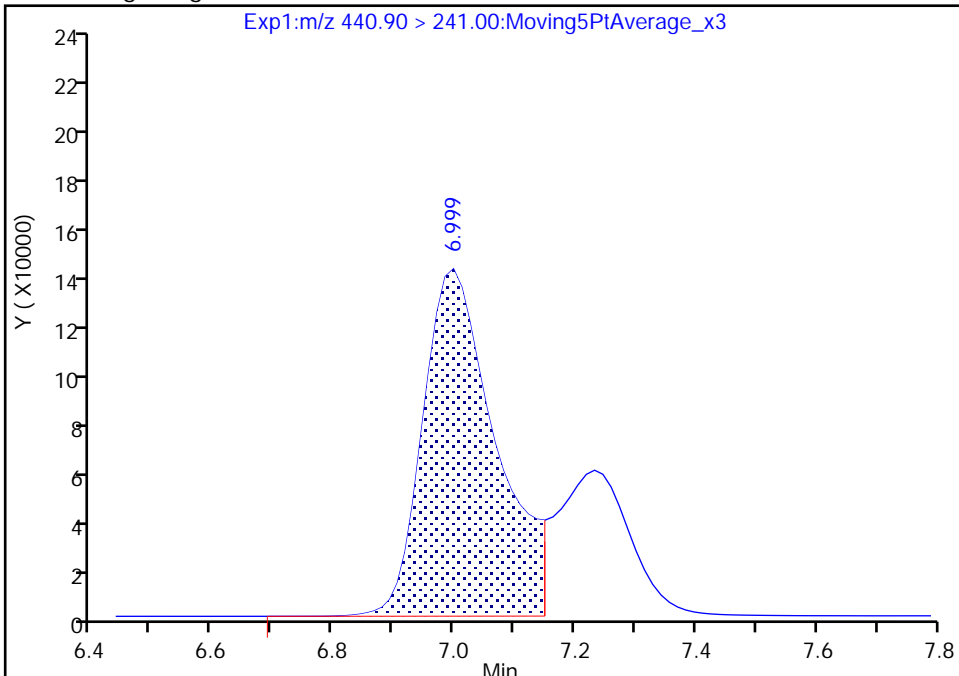
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_011.d  
 Injection Date: 15-Jan-2021 18:26:17 Instrument ID: A7\_N  
 Lims ID: IC STD 8  
 Client ID:  
 Operator ID: abservice ALS Bottle#: 11 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

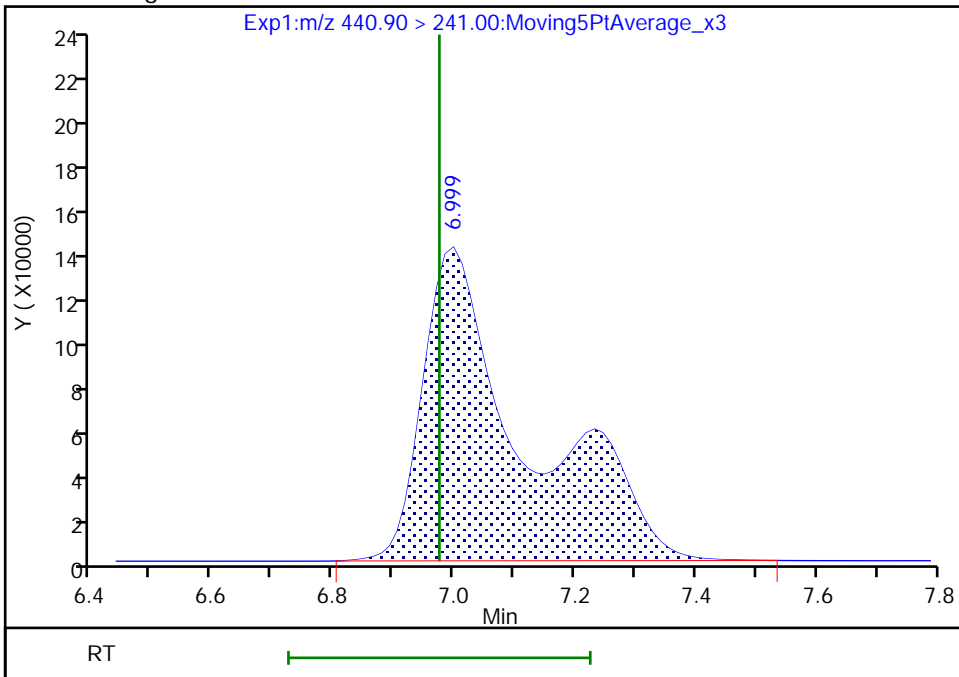
RT: 7.00  
 Area: 1168207  
 Amount: 0.185954  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.00  
 Area: 1650129  
 Amount: 0.269245  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:52:45  
 Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_013.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 15-Jan-2021 19:01:26 ALS Bottle#: 13 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (40)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:44 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:53:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	3.454	3.330	0.124	6888652	0.4922		98.4	19420	
2 R-EVE	405.00 > 217.00	6.934	6.897	0.037	4223474	0.5132		103	17110	M
3 R-PSDA	440.90 > 241.00	7.002	6.975	0.027	3125095	0.5099		102	38864	
4 Hydrolyzed PSDA	439.00 > 343.00	7.098	7.058	0.040	11877869	0.5378		108	194194	
5 PMPA	229.00 > 185.00	7.194	7.168	0.026	5729406	0.5230		105	7445	
6 NVHOS	297.00 > 135.00	7.690	7.676	0.014	8783887	0.4983		99.7	86528	
7 PFO2HxA	245.00 > 85.00	8.299	8.297	0.002	6785768	0.5065		101	52690	
8 PEPA	278.90 > 234.90	8.923	8.917	0.007	4041836	0.5548		111	31616	
9 PES	314.90 > 135.00	9.192	9.206	-0.014	35303864	0.4135		82.7	374845	
10 PFECA B	295.00 > 201.00	9.409	9.426	-0.017	4027237	0.4664		93.3	93725	
11 PFO3OA	310.90 > 85.00	9.675	9.669	0.006	4743364	0.4809		96.2	58213	
13 HPFO-DA	285.00 > 169.00	9.758	9.779	-0.021	3406979	0.5095		102	98356	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.758	9.779	-0.021	1462096	0.2365		94.6	42459	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.120	10.133	-0.013		32282549	0.2821		56.4	209577	
16 Hydro-EVE Acid										
427.00 > 282.90	10.148	10.159	-0.011		27650557	0.4413		88.3	203498	
D 15 13C4 PFHpA										
367.00 > 322.00	10.176	10.185	-0.009		5690442	0.2193		87.7	161343	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.176	10.185	-0.009	1.000	12226897	0.5238	Target=0.00	105	130172	
363.00 > 169.00	10.176	10.185	-0.009	1.000	7684439		1.59(0.00-0.00)	105	130815	
17 Hydro-PS Acid										
463.00 > 262.90	10.176	10.185	-0.009		17964210	0.4913		98.3	207020	
19 PFECA G										
378.90 > 184.90	10.290	10.290	0.0		9129327	0.3750		75.0	259127	
20 PFO4DA										
376.90 > 85.00	10.432	10.440	-0.008		4789237	0.5674		113	46568	
21 PS Acid										
443.00 > 146.90	10.516	10.514	0.002		7173033	0.4499		90.0	128872	
22 EVE Acid										
407.00 > 262.90	10.516	10.514	0.002		23925419	0.3780		75.6	194731	
23 TAF										
442.90 > 85.00	11.025	11.018	0.007		1186868	0.4813		96.3	2760	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

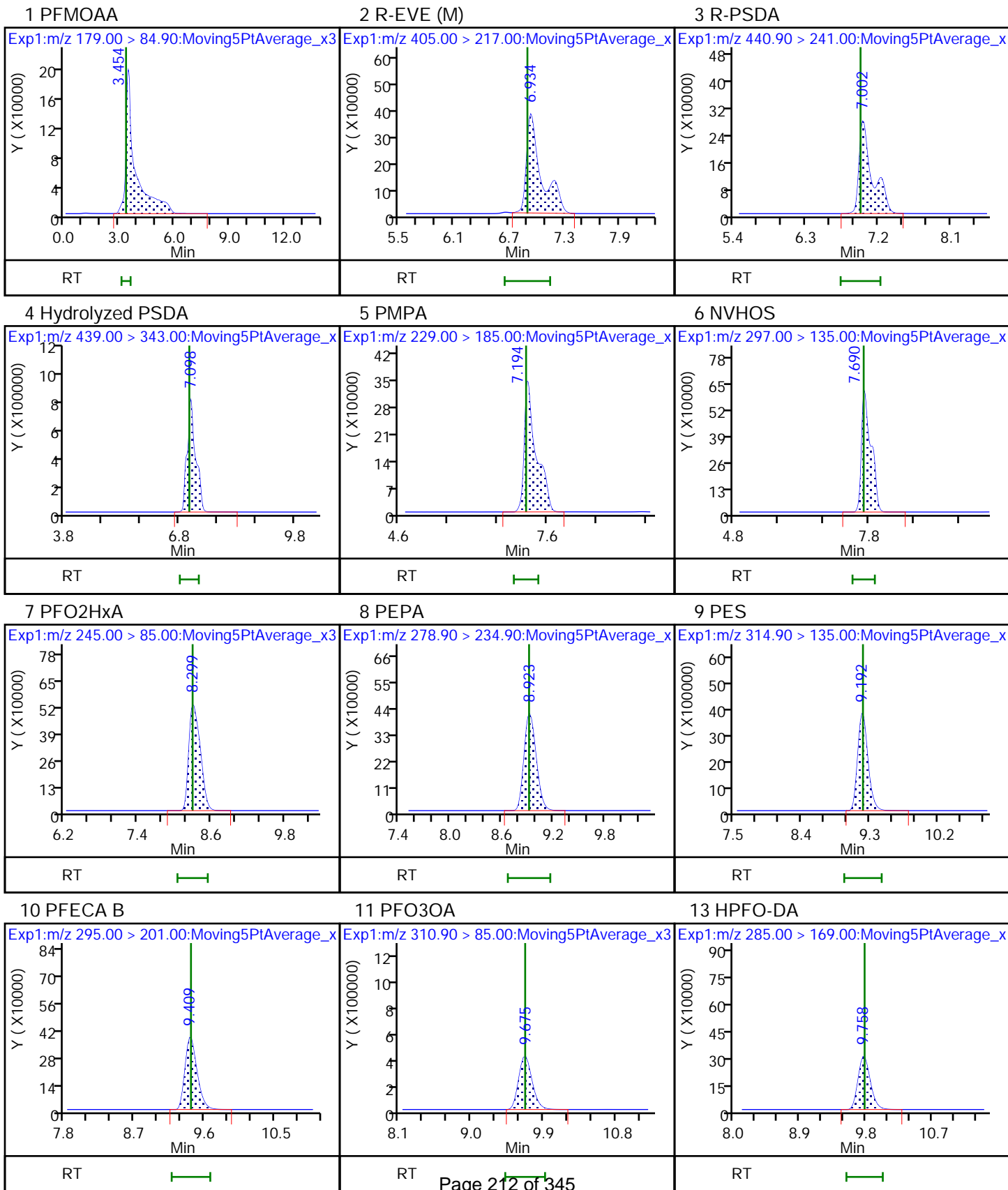
**Reagents:**

LCTB3\_LLSTD9\_00040

Amount Added: 1.00

Units: mL

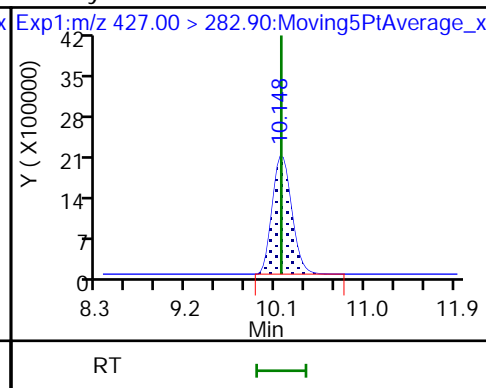
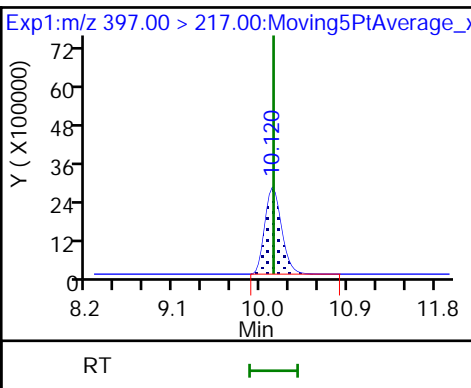
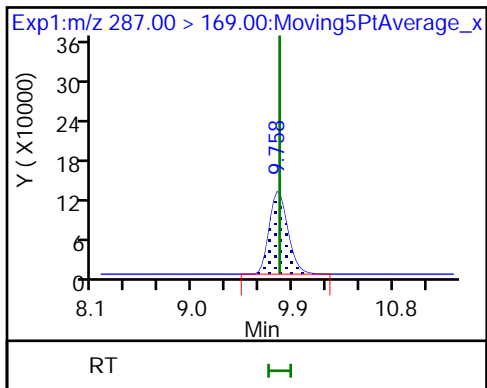
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Injection Date: 15-Jan-2021 19:01:26 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL



D 12 13C3 HFPO-DA

14 R-PSDCA

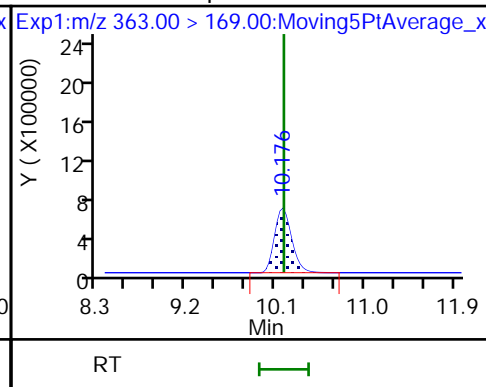
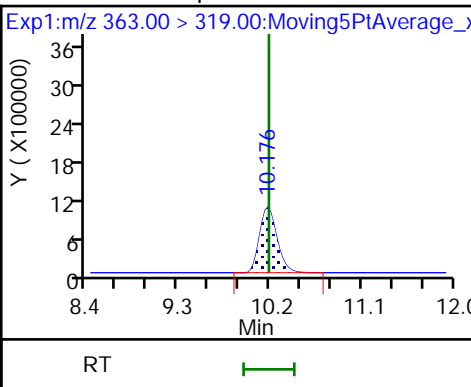
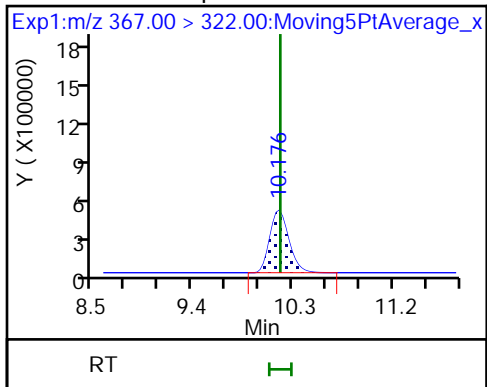
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

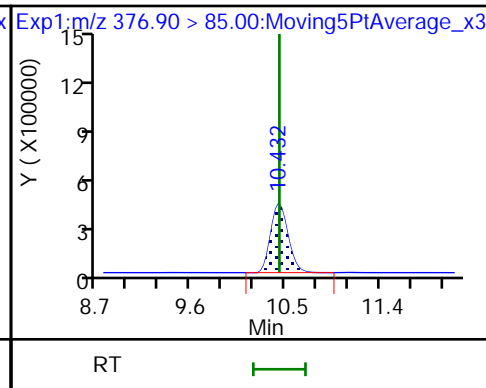
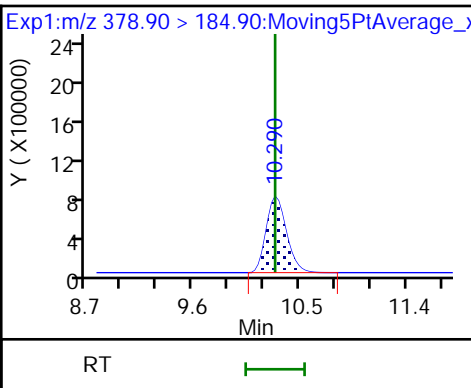
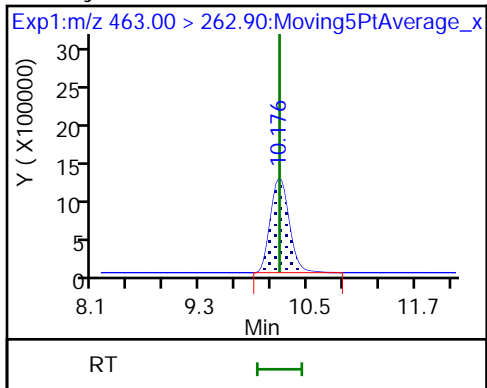
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

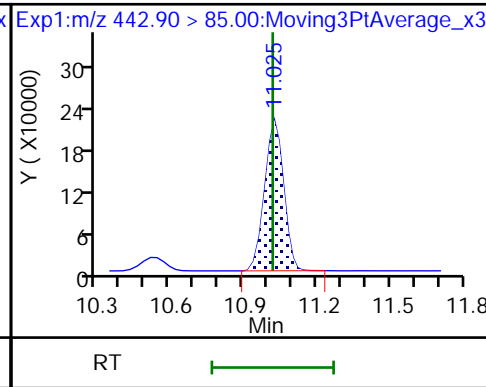
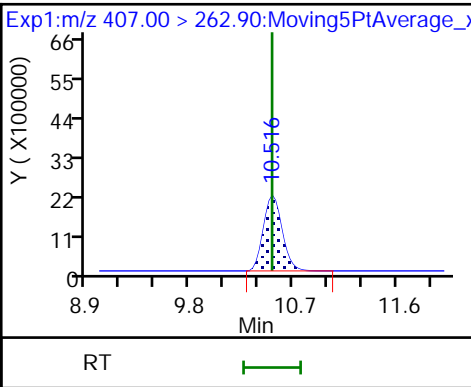
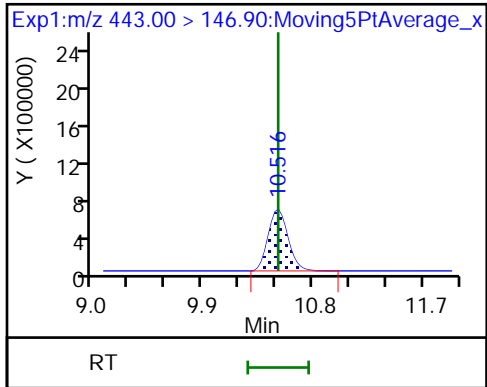
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF





Eurofins TestAmerica, Sacramento

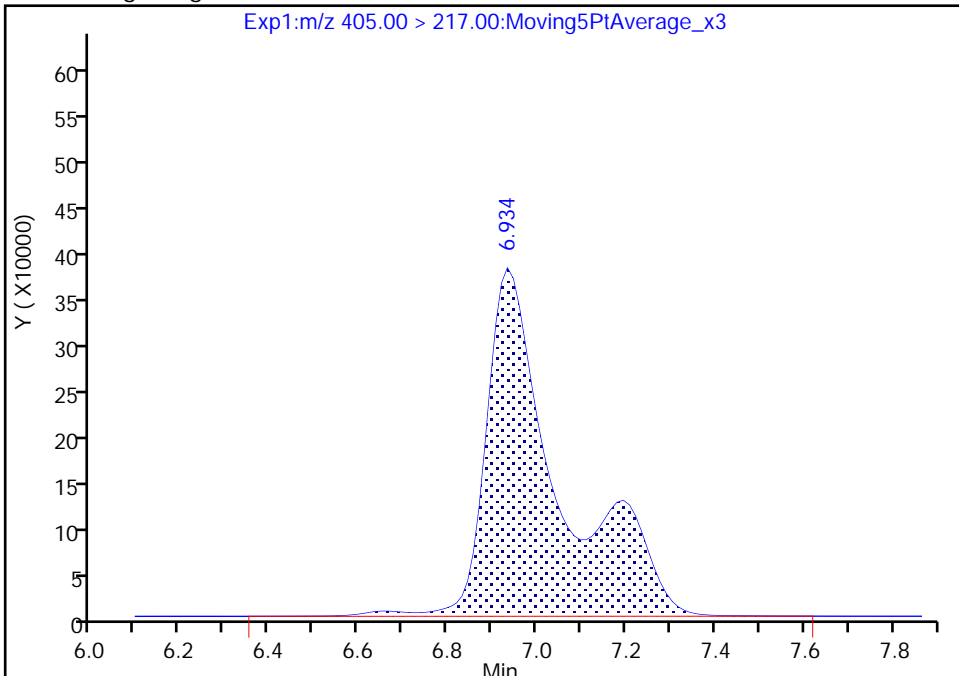
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Injection Date: 15-Jan-2021 19:01:26 Instrument ID: A7\_N  
Lims ID: IC STD 9  
Client ID:  
Operator ID: abservice ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

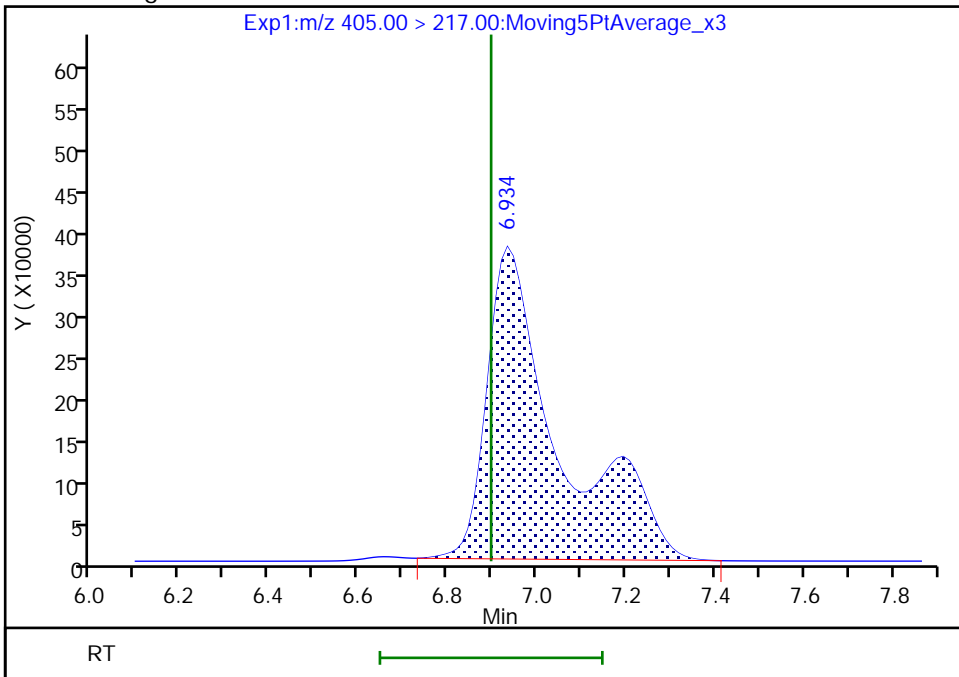
RT: 6.93  
Area: 4344477  
Amount: 0.503473  
Amount Units: ng/ml

Processing Integration Results



RT: 6.93  
Area: 4223474  
Amount: 0.513231  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:53:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 15-Jan-2021 19:19:01 ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (39)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:03:45 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:53:35

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										a
179.00 > 84.90	4.039	3.330	0.709		13450571	0.9611		96.1	69213	a
2 R-EVE										M
405.00 > 217.00	7.049	6.897	0.152		9028160	1.10		110	23331	M
3 R-PSDA										
440.90 > 241.00	7.099	6.975	0.124		7014889	1.14		114	128576	
4 Hydrolyzed PSDA										
439.00 > 343.00	7.181	7.058	0.123		22705356	1.03		103	234098	
5 PMPA										
229.00 > 185.00	7.341	7.168	0.173		11095646	1.01		101	25736	
6 NVHOS										
297.00 > 135.00	7.788	7.676	0.112		16852358	0.9559		95.6	272476	
7 PFO2HxA										
245.00 > 85.00	8.344	8.297	0.047		12781213	0.9539		95.4	124215	
8 PEPA										
278.90 > 234.90	8.950	8.917	0.034		7230504	0.99		99.2	49429	
9 PES										
314.90 > 135.00	9.221	9.206	0.015		40994003	0.4801		48.0	295965	
10 PFECA B										
295.00 > 201.00	9.441	9.426	0.015		7552497	0.8746		87.5	179594	
11 PFO3OA										
310.90 > 85.00	9.685	9.669	0.016		9974161	1.01		101	145133	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.768	9.779	-0.011		1403301	0.2270		90.8	40855	
13 HPFO-DA										
285.00 > 169.00	9.768	9.779	-0.011	1.000	6163773	0.9604		96.0	133703	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.131	10.133	-0.002		39279145	0.3432		34.3	135812	
16 Hydro-EVE Acid										
427.00 > 282.90	10.159	10.159	0.0		46064842	0.7352		73.5	226049	
D 15 13C4 PFHpA										
367.00 > 322.00	10.188	10.185	0.003		5300343	0.2043		81.7	150096	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.188	10.185	0.003	1.000	19029361	0.8756	Target=0.00	87.6	201556	
363.00 > 169.00	10.188	10.185	0.003	1.000	11881127		1.60(0.00-0.00)	87.6	167772	
17 Hydro-PS Acid										
463.00 > 262.90	10.188	10.185	0.003		31219062	0.8538		85.4	240236	
19 PFECA G										
378.90 > 184.90	10.302	10.290	0.012		13241285	0.5439		54.4	374564	
20 PFO4DA										
376.90 > 85.00	10.444	10.440	0.004		7726158	0.9153		91.5	61096	
21 PS Acid										
443.00 > 146.90	10.528	10.514	0.014		12175406	0.7636		76.4	152271	
22 EVE Acid										
407.00 > 262.90	10.528	10.514	0.014		32758108	0.5176		51.8	150256	
23 TAF										
442.90 > 85.00	11.037	11.018	0.019		1913289	0.7759		77.6	2871	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

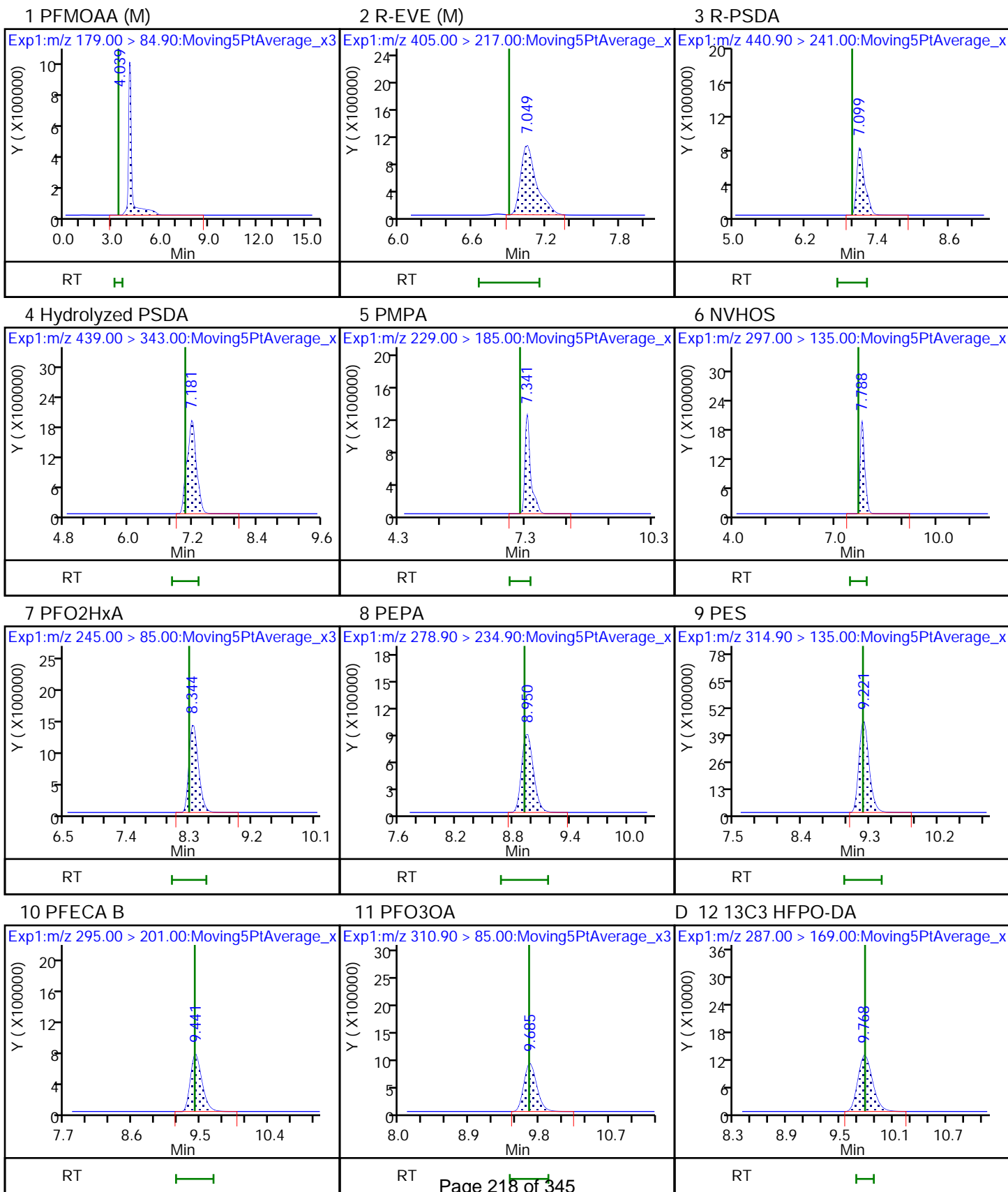
**Reagents:**

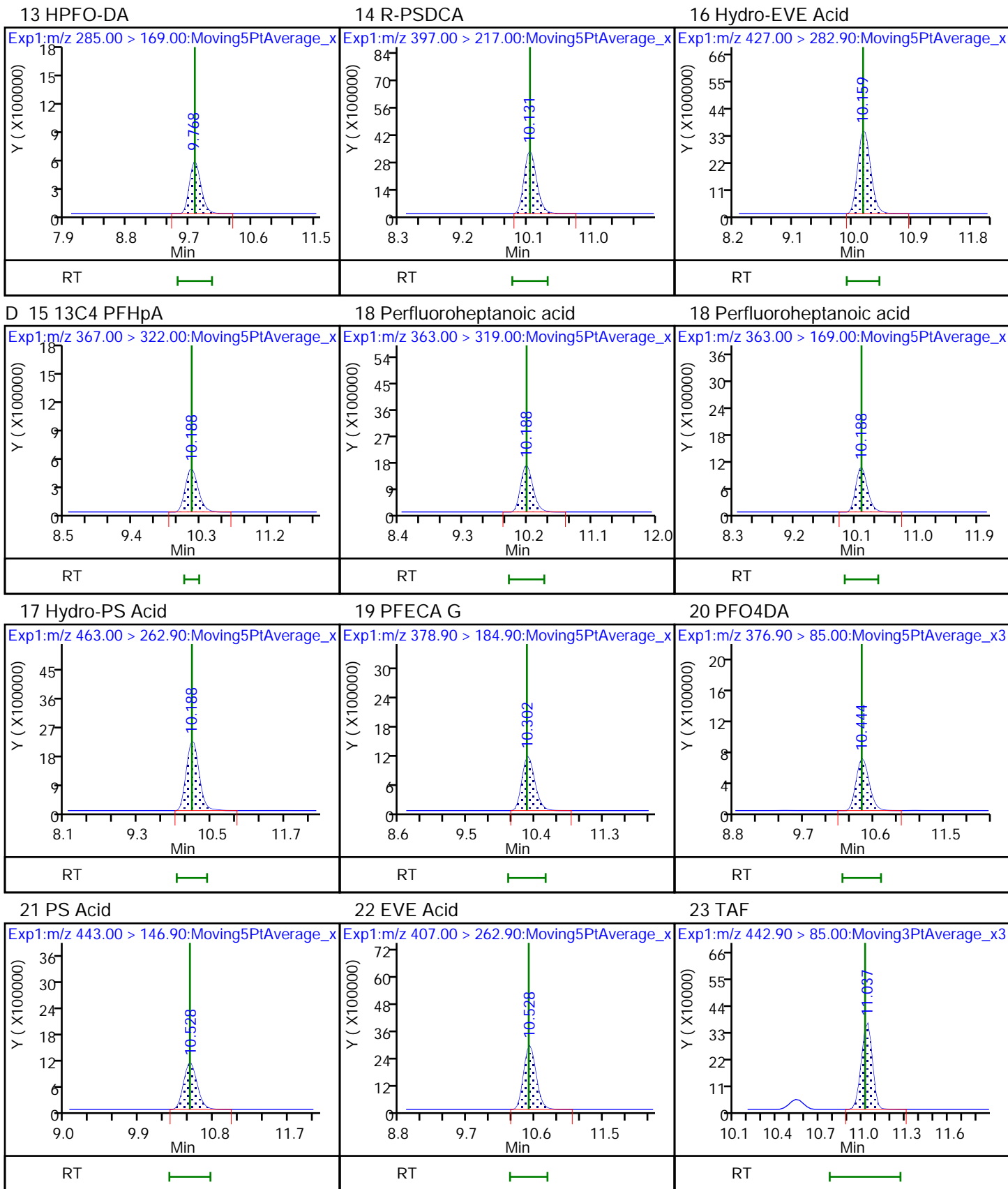
LCTB3\_LLSTD10\_00039

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

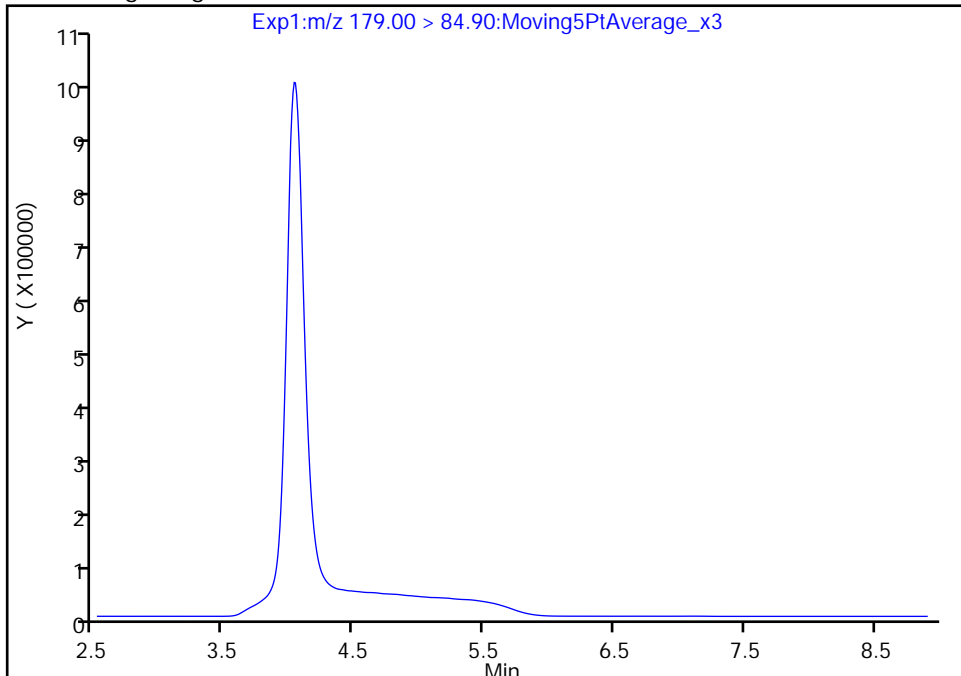
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Injection Date: 15-Jan-2021 19:19:01 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

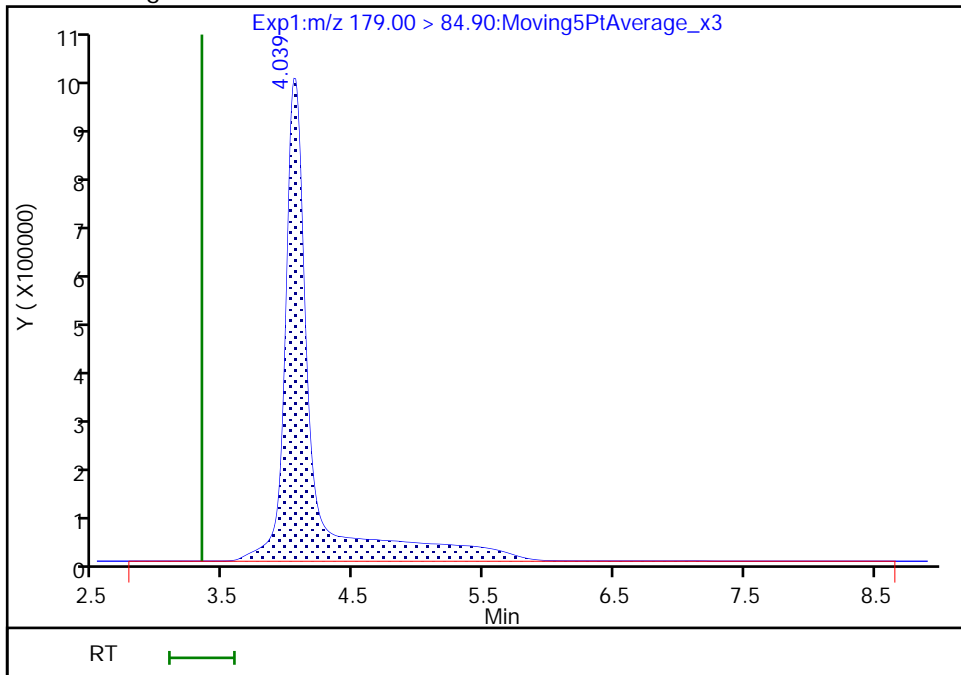
Not Detected  
Expected RT: 3.33

Processing Integration Results



RT: 4.04  
Area: 13450571  
Amount: 0.961084  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:53:15  
Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

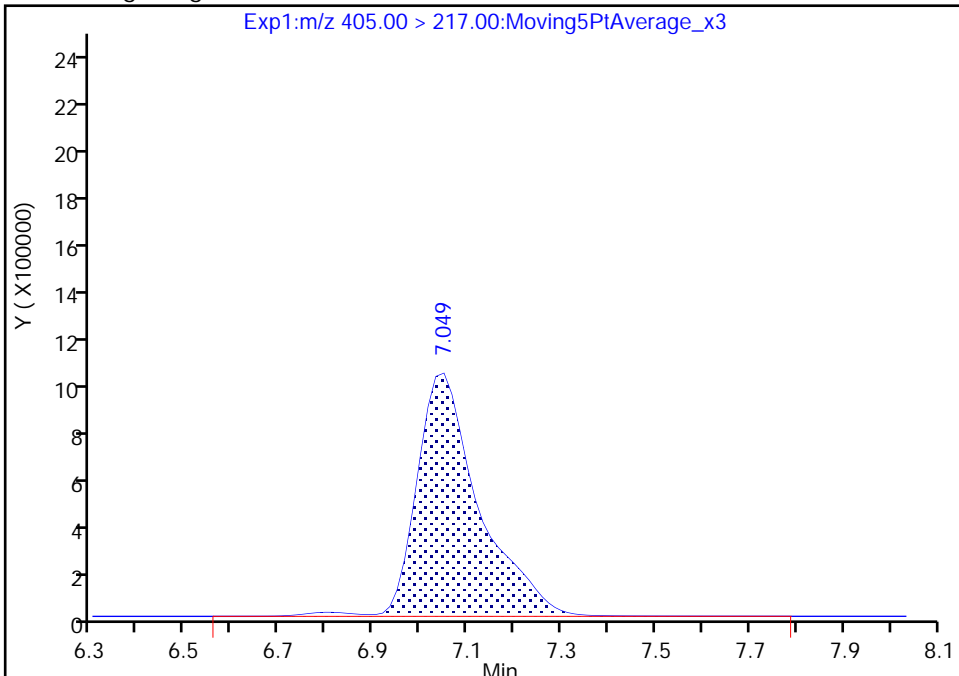
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
Injection Date: 15-Jan-2021 19:19:01 Instrument ID: A7\_N  
Lims ID: IC STD 10  
Client ID:  
Operator ID: abservice ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

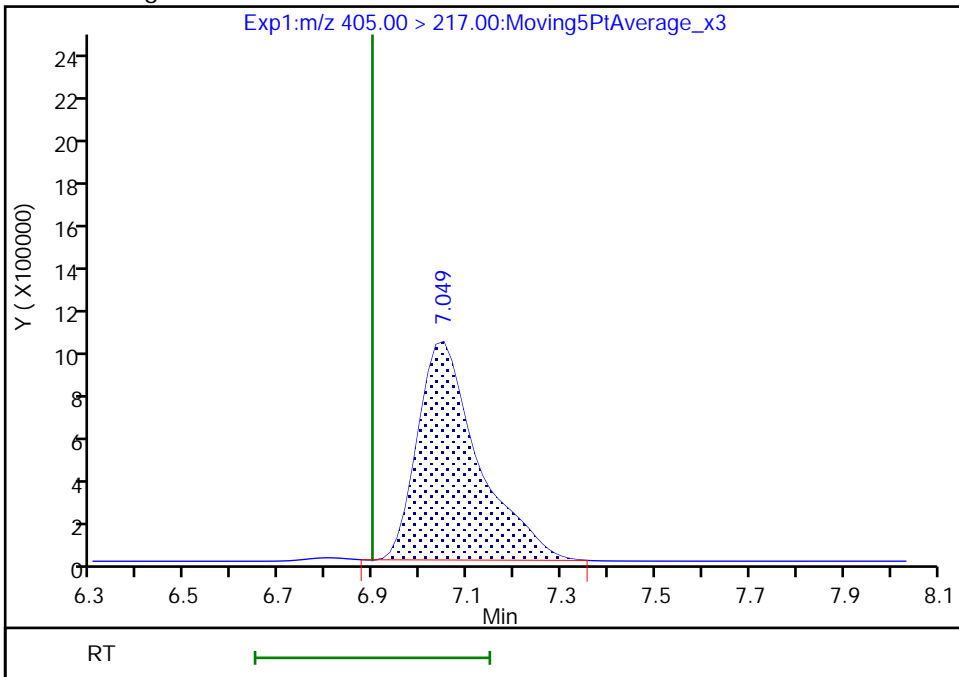
RT: 7.05  
Area: 9295720  
Amount: 1.080292  
Amount Units: ng/ml

Processing Integration Results



RT: 7.05  
Area: 9028160  
Amount: 1.097090  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:53:23  
Audit Action: Manually Integrated

Calibration

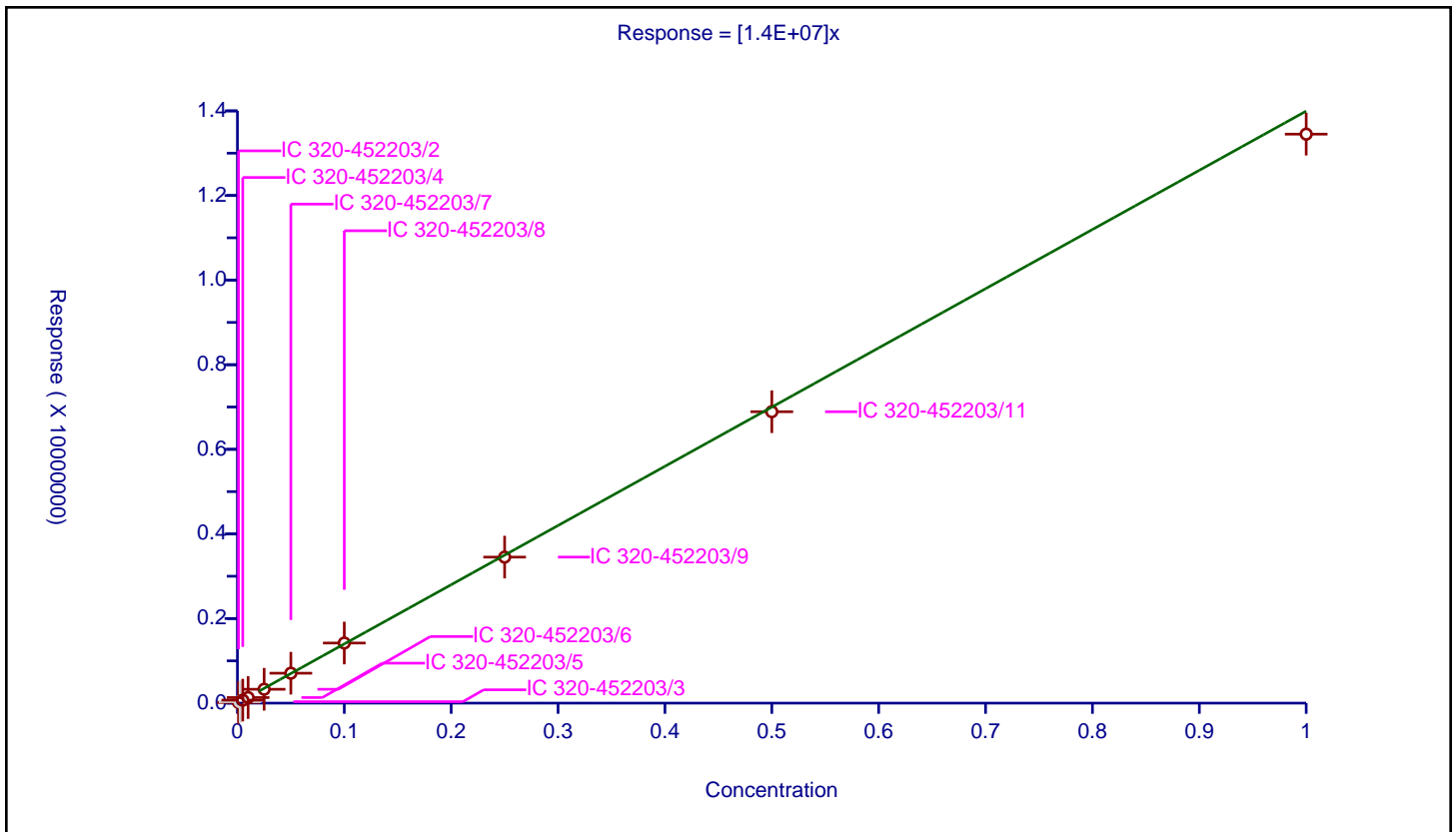
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.4E+07

Error Coefficients	
Standard Error:	197000
Relative Standard Error:	6.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	16127.0			16127000.0	Y
2	IC 320-452203/3	0.0025	34489.0			13795600.0	N
3	IC 320-452203/4	0.005	70639.0			14127800.0	Y
4	IC 320-452203/5	0.01	131909.0			13190900.0	Y
5	IC 320-452203/6	0.025	327969.0			13118760.0	Y
6	IC 320-452203/7	0.05	707532.0			14150640.0	Y
7	IC 320-452203/8	0.1	1420803.0			14208030.0	Y
8	IC 320-452203/9	0.25	3451467.0			13805868.0	Y
9	IC 320-452203/11	0.5	6888652.0			13777304.0	Y
10	IC 320-452203/12	1.0	13450571.0			13450571.0	Y



**Calibration**

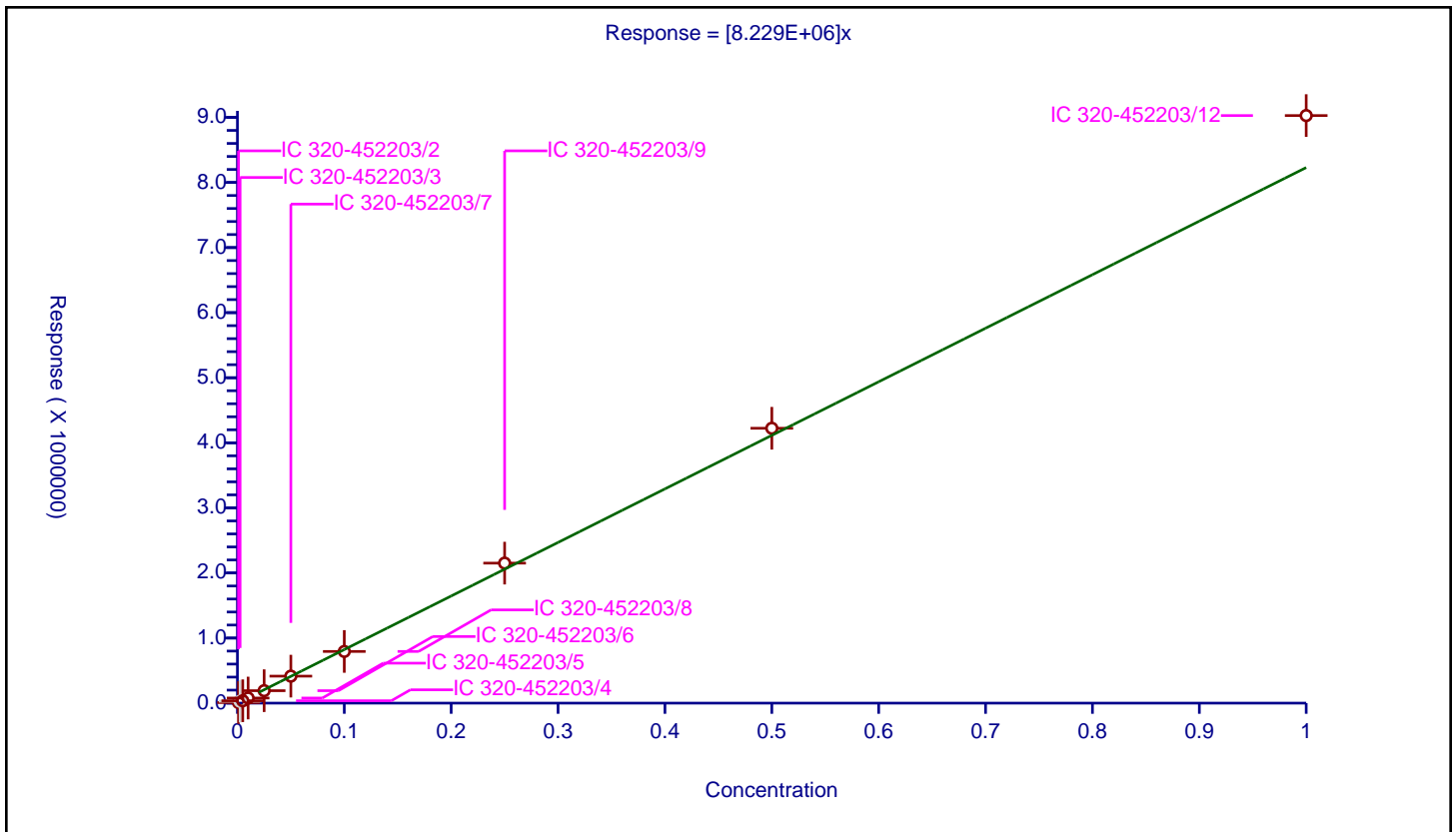
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.229E+06

Error Coefficients	
Standard Error:	287000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	8891.0			8891000.0	Y
2	IC 320-452203/3	0.0025	29295.0			11718000.0	N
3	IC 320-452203/4	0.005	36777.0			7355400.0	Y
4	IC 320-452203/5	0.01	78410.0			7841000.0	Y
5	IC 320-452203/6	0.025	191479.0			7659160.0	Y
6	IC 320-452203/7	0.05	414799.0			8295980.0	Y
7	IC 320-452203/8	0.1	794110.0			7941100.0	Y
8	IC 320-452203/9	0.25	2150982.0			8603928.0	Y
9	IC 320-452203/11	0.5	4223474.0			8446948.0	Y
10	IC 320-452203/12	1.0	9028160.0			9028160.0	Y



Calibration

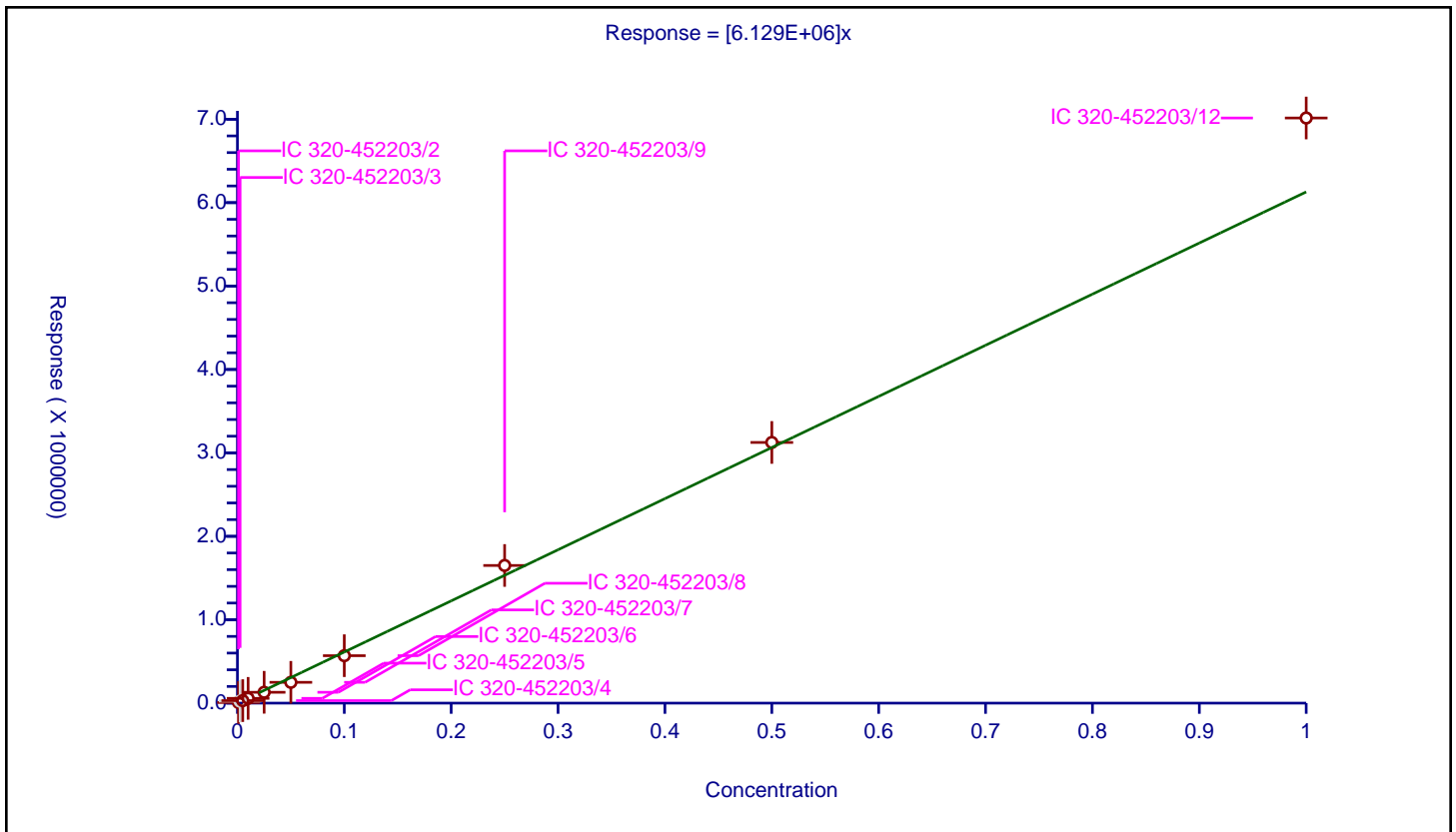
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.129E+06

Error Coefficients	
Standard Error:	318000
Relative Standard Error:	13.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	7635.0			7635000.0	Y
2	IC 320-452203/3	0.0025	23979.0			9591600.0	N
3	IC 320-452203/4	0.005	30169.0			6033800.0	Y
4	IC 320-452203/5	0.01	57405.0			5740500.0	Y
5	IC 320-452203/6	0.025	130129.0			5205160.0	Y
6	IC 320-452203/7	0.05	249569.0			4991380.0	Y
7	IC 320-452203/8	0.1	568716.0			5687160.0	Y
8	IC 320-452203/9	0.25	1650129.0			6600516.0	Y
9	IC 320-452203/11	0.5	3125095.0			6250190.0	Y
10	IC 320-452203/12	1.0	7014889.0			7014889.0	Y





**Calibration**

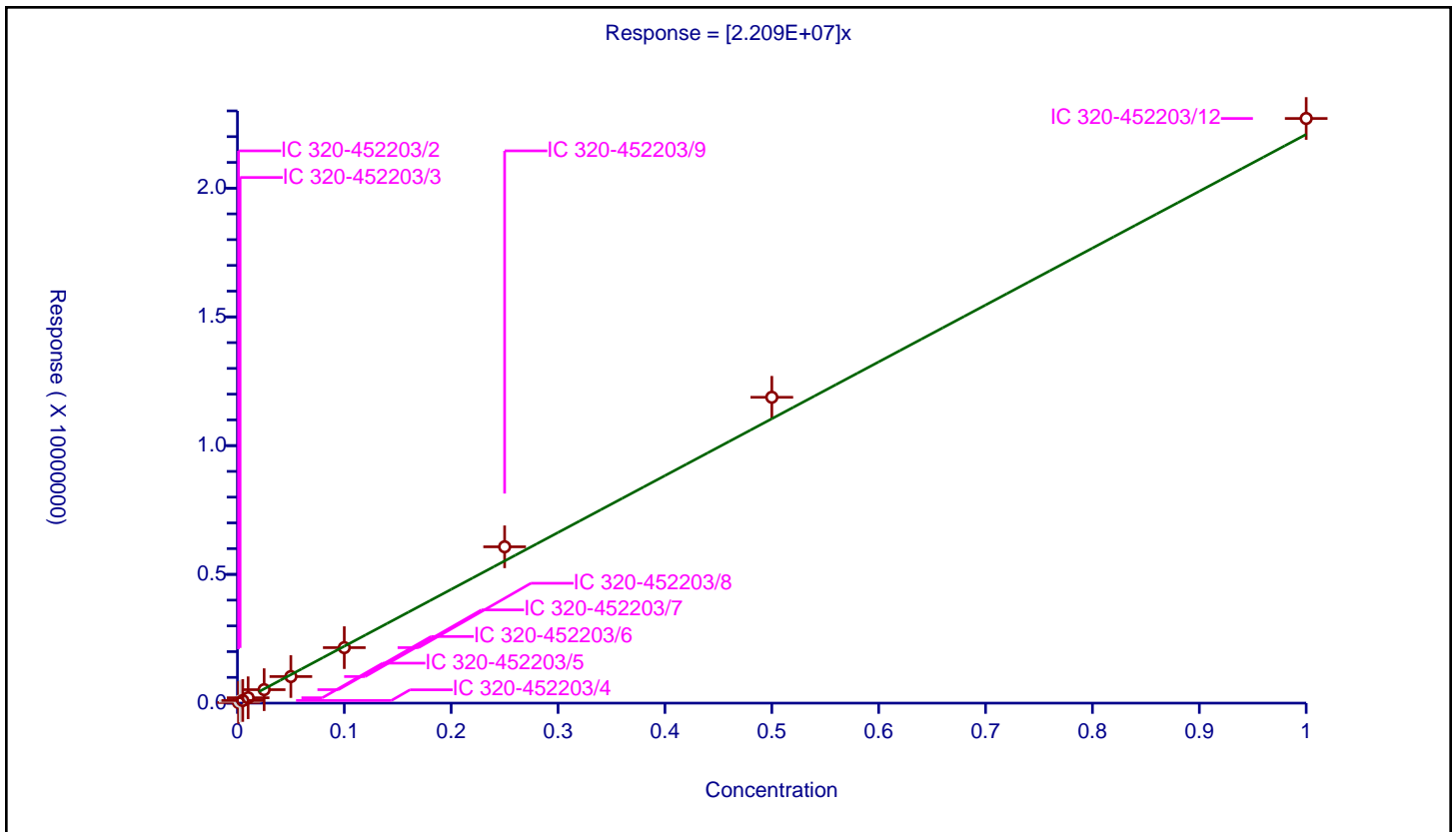
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.209E+07

Error Coefficients	
Standard Error:	417000
Relative Standard Error:	6.9
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	23680.0			23680000.0	Y
2	IC 320-452203/3	0.0025	75019.0			30007600.0	N
3	IC 320-452203/4	0.005	102019.0			20403800.0	Y
4	IC 320-452203/5	0.01	208549.0			20854900.0	Y
5	IC 320-452203/6	0.025	523199.0			20927960.0	Y
6	IC 320-452203/7	0.05	1031333.0			20626660.0	Y
7	IC 320-452203/8	0.1	2154596.0			21545960.0	Y
8	IC 320-452203/9	0.25	6071334.0			24285336.0	Y
9	IC 320-452203/11	0.5	11877869.0			23755738.0	Y
10	IC 320-452203/12	1.0	22705356.0			22705356.0	Y



Calibration

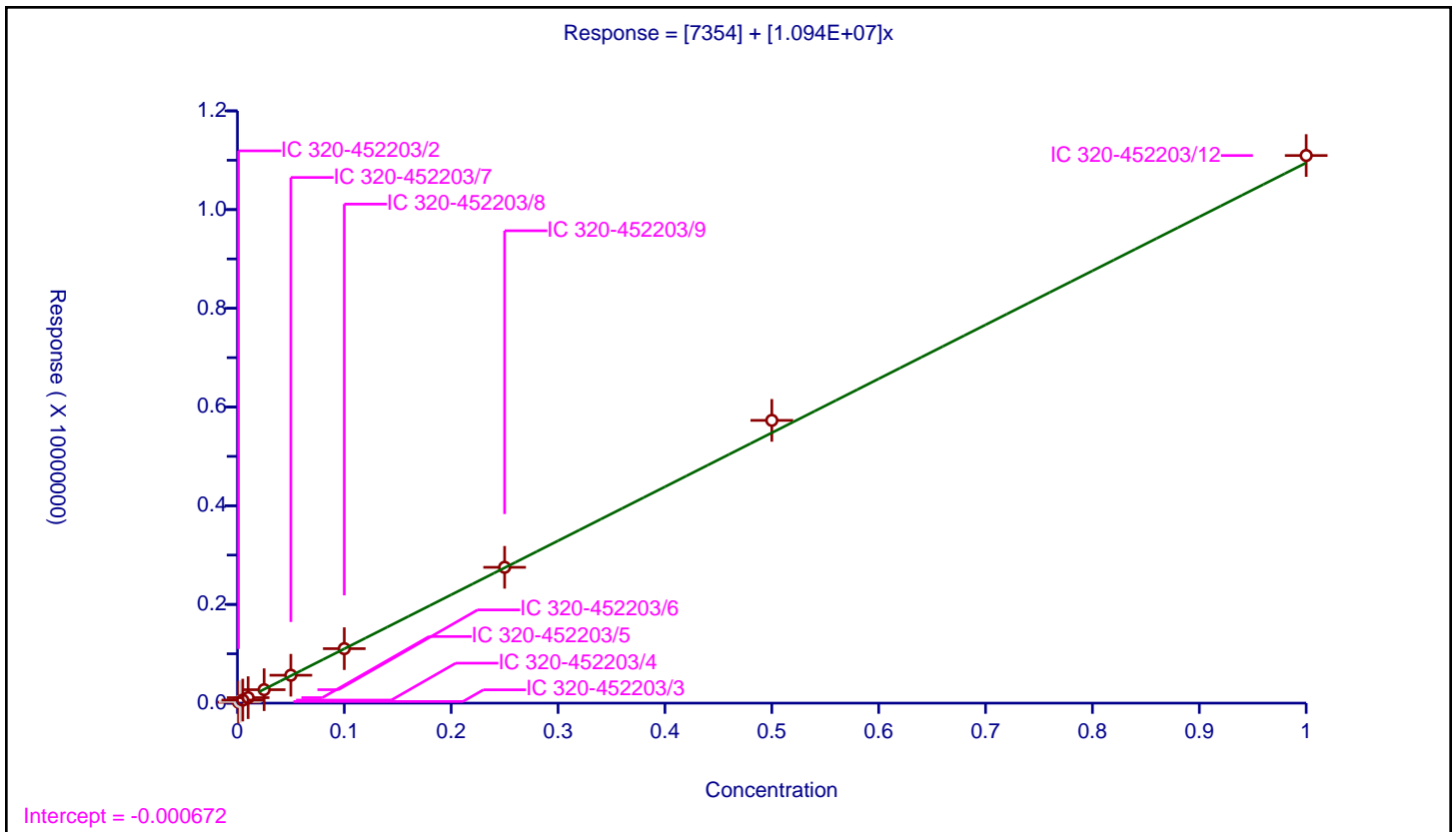
/ PMPA

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	7354
Slope:	1.094E+07

Error Coefficients	
Standard Error:	111000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	18375.0			18375000.0	Y
2	IC 320-452203/3	0.0025	32972.0			13188800.0	N
3	IC 320-452203/4	0.005	61769.0			12353800.0	Y
4	IC 320-452203/5	0.01	110630.0			11063000.0	Y
5	IC 320-452203/6	0.025	272167.0			10886680.0	Y
6	IC 320-452203/7	0.05	565483.0			11309660.0	Y
7	IC 320-452203/8	0.1	1104010.0			11040100.0	Y
8	IC 320-452203/9	0.25	2751727.0			11006908.0	Y
9	IC 320-452203/11	0.5	5729406.0			11458812.0	Y
10	IC 320-452203/12	1.0	11095646.0			11095646.0	Y



Calibration

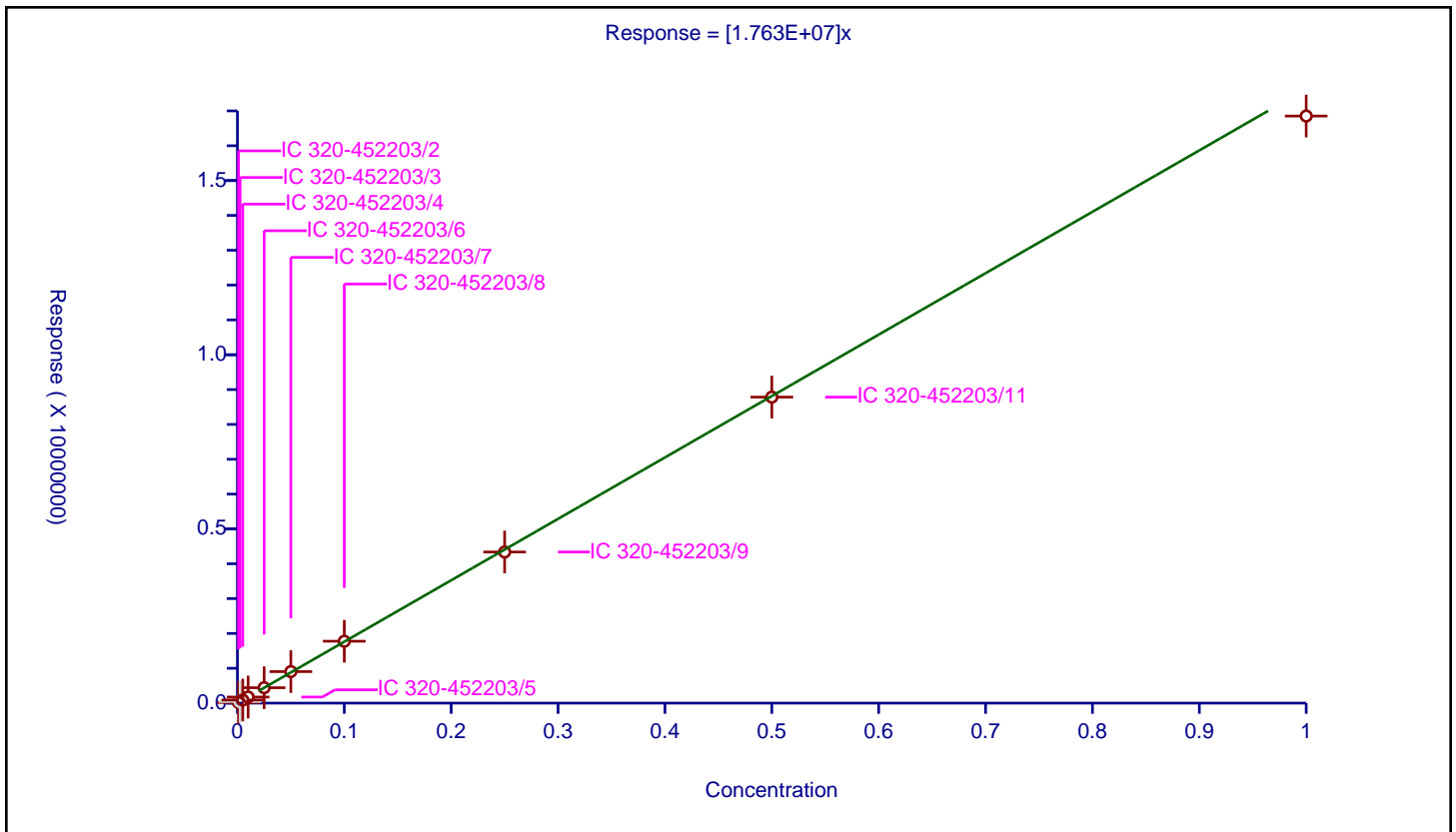
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.763E+07

Error Coefficients	
Standard Error:	276000
Relative Standard Error:	2.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	18054.0			18054000.0	Y
2	IC 320-452203/3	0.0025	44286.0			17714400.0	N
3	IC 320-452203/4	0.005	89156.0			17831200.0	Y
4	IC 320-452203/5	0.01	174407.0			17440700.0	Y
5	IC 320-452203/6	0.025	442534.0			17701360.0	Y
6	IC 320-452203/7	0.05	904727.0			18094540.0	Y
7	IC 320-452203/8	0.1	1776716.0			17767160.0	Y
8	IC 320-452203/9	0.25	4338485.0			17353940.0	Y
9	IC 320-452203/11	0.5	8783887.0			17567774.0	Y
10	IC 320-452203/12	1.0	16852358.0			16852358.0	Y



Calibration

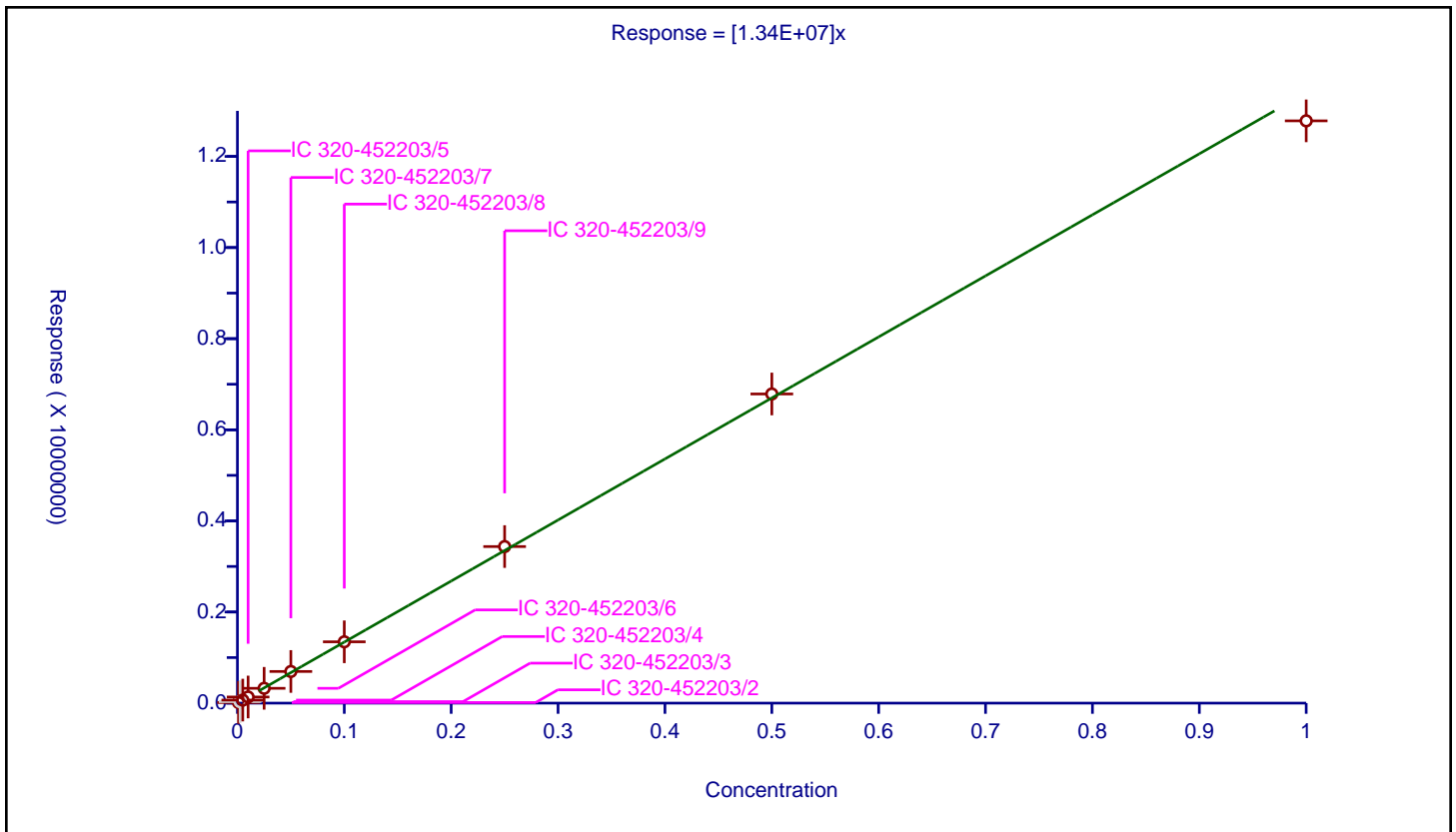
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.34E+07

Error Coefficients	
Standard Error:	223000
Relative Standard Error:	2.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	13317.0			13317000.0	Y
2	IC 320-452203/3	0.0025	33160.0			13264000.0	N
3	IC 320-452203/4	0.005	66648.0			13329600.0	Y
4	IC 320-452203/5	0.01	134590.0			13459000.0	Y
5	IC 320-452203/6	0.025	325558.0			13022320.0	Y
6	IC 320-452203/7	0.05	694816.0			13896320.0	Y
7	IC 320-452203/8	0.1	1346076.0			13460760.0	Y
8	IC 320-452203/9	0.25	3436679.0			13746716.0	Y
9	IC 320-452203/11	0.5	6785768.0			13571536.0	Y
10	IC 320-452203/12	1.0	12781213.0			12781213.0	Y



Calibration

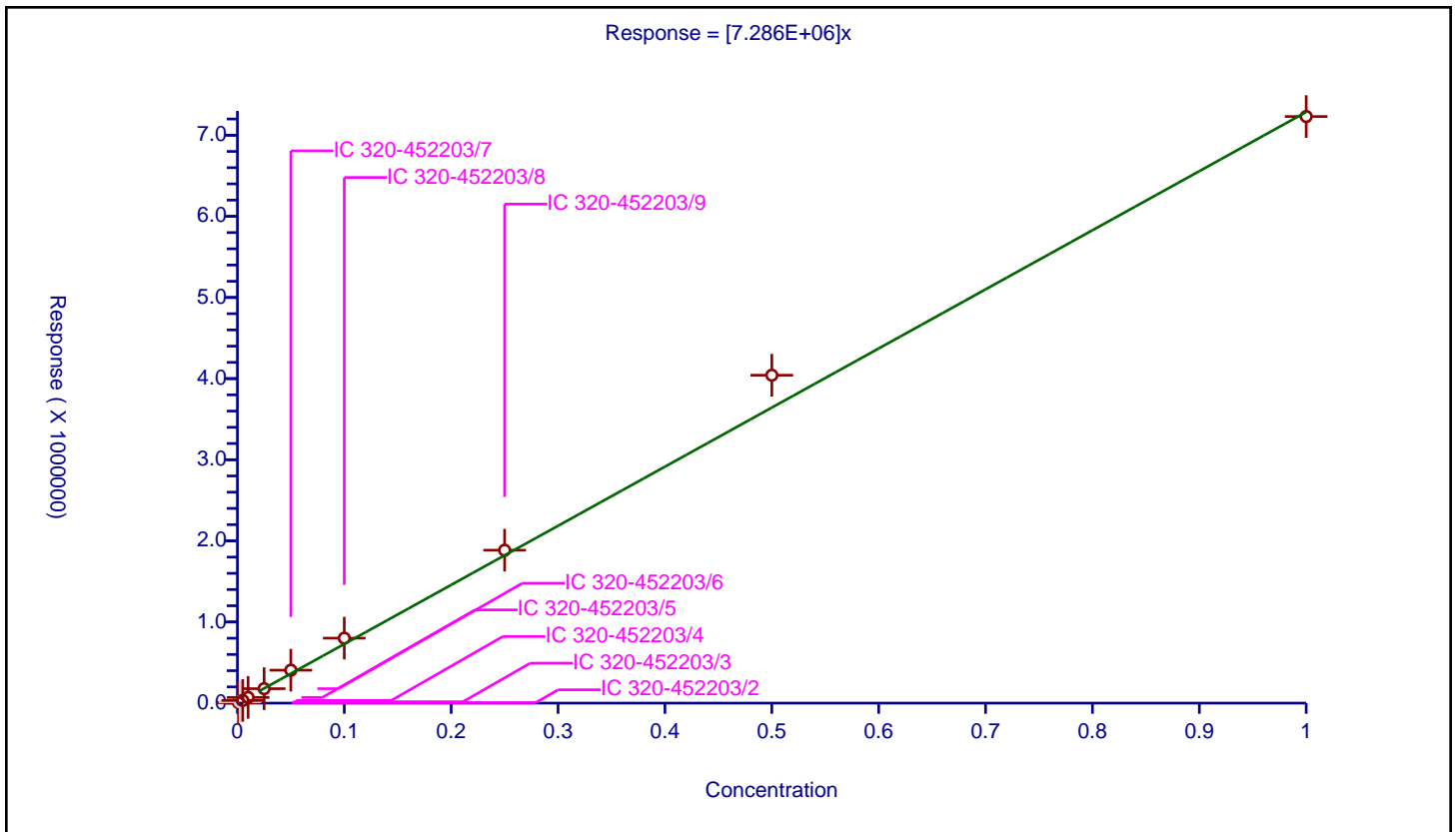
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.286E+06

Error Coefficients	
Standard Error:	147000
Relative Standard Error:	10.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	5758.0			5758000.0	Y
2	IC 320-452203/3	0.0025	17306.0			6922400.0	N
3	IC 320-452203/4	0.005	33383.0			6676600.0	Y
4	IC 320-452203/5	0.01	70368.0			7036800.0	Y
5	IC 320-452203/6	0.025	178003.0			7120120.0	Y
6	IC 320-452203/7	0.05	405906.0			8118120.0	Y
7	IC 320-452203/8	0.1	800837.0			8008370.0	Y
8	IC 320-452203/9	0.25	1884755.0			7539020.0	Y
9	IC 320-452203/11	0.5	4041836.0			8083672.0	Y
10	IC 320-452203/12	1.0	7230504.0			7230504.0	Y



**Calibration**

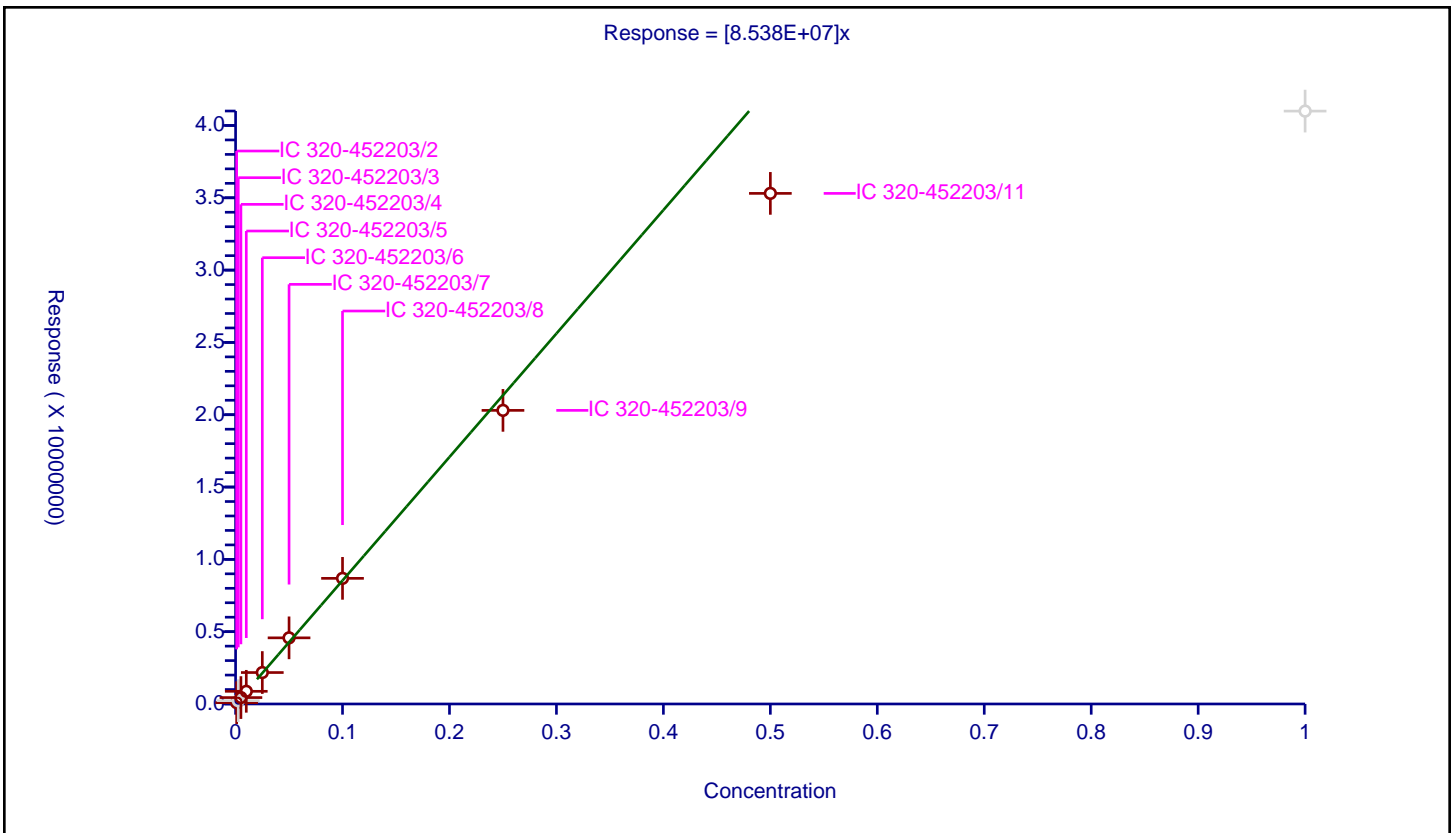
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.538E+07

Error Coefficients	
Standard Error:	2820000
Relative Standard Error:	7.8
Correlation Coefficient:	0.994
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	89583.0			89583000.0	Y
2	IC 320-452203/3	0.0025	228509.0			91403600.0	N
3	IC 320-452203/4	0.005	443000.0			88600000.0	Y
4	IC 320-452203/5	0.01	877377.0			87737700.0	Y
5	IC 320-452203/6	0.025	2173909.0			86956360.0	Y
6	IC 320-452203/7	0.05	4573163.0			91463260.0	Y
7	IC 320-452203/8	0.1	8687347.0			86873470.0	Y
8	IC 320-452203/9	0.25	20301255.0			81205020.0	Y
9	IC 320-452203/11	0.5	35303864.0			70607728.0	Y
10	IC 320-452203/12	1.0	40994003.0			40994003.0	N



Calibration

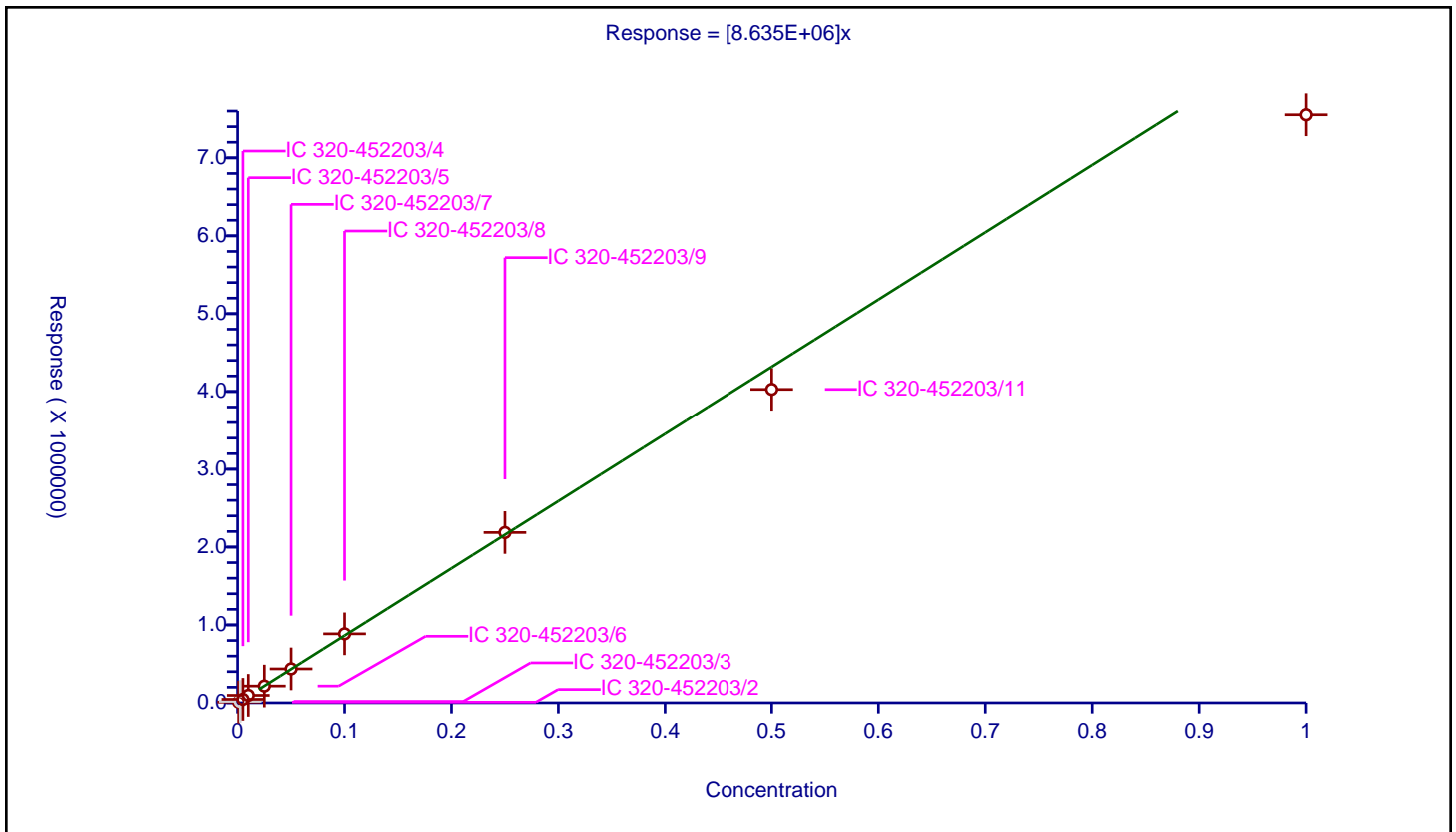
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.635E+06

Error Coefficients	
Standard Error:	397000
Relative Standard Error:	6.6
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	8622.0			8622000.0	Y
2	IC 320-452203/3	0.0025	18449.0			7379600.0	N
3	IC 320-452203/4	0.005	44898.0			8979600.0	Y
4	IC 320-452203/5	0.01	95791.0			9579100.0	Y
5	IC 320-452203/6	0.025	215419.0			8616760.0	Y
6	IC 320-452203/7	0.05	435493.0			8709860.0	Y
7	IC 320-452203/8	0.1	885675.0			8856750.0	Y
8	IC 320-452203/9	0.25	2187033.0			8748132.0	Y
9	IC 320-452203/11	0.5	4027237.0			8054474.0	Y
10	IC 320-452203/12	1.0	7552497.0			7552497.0	Y



Calibration

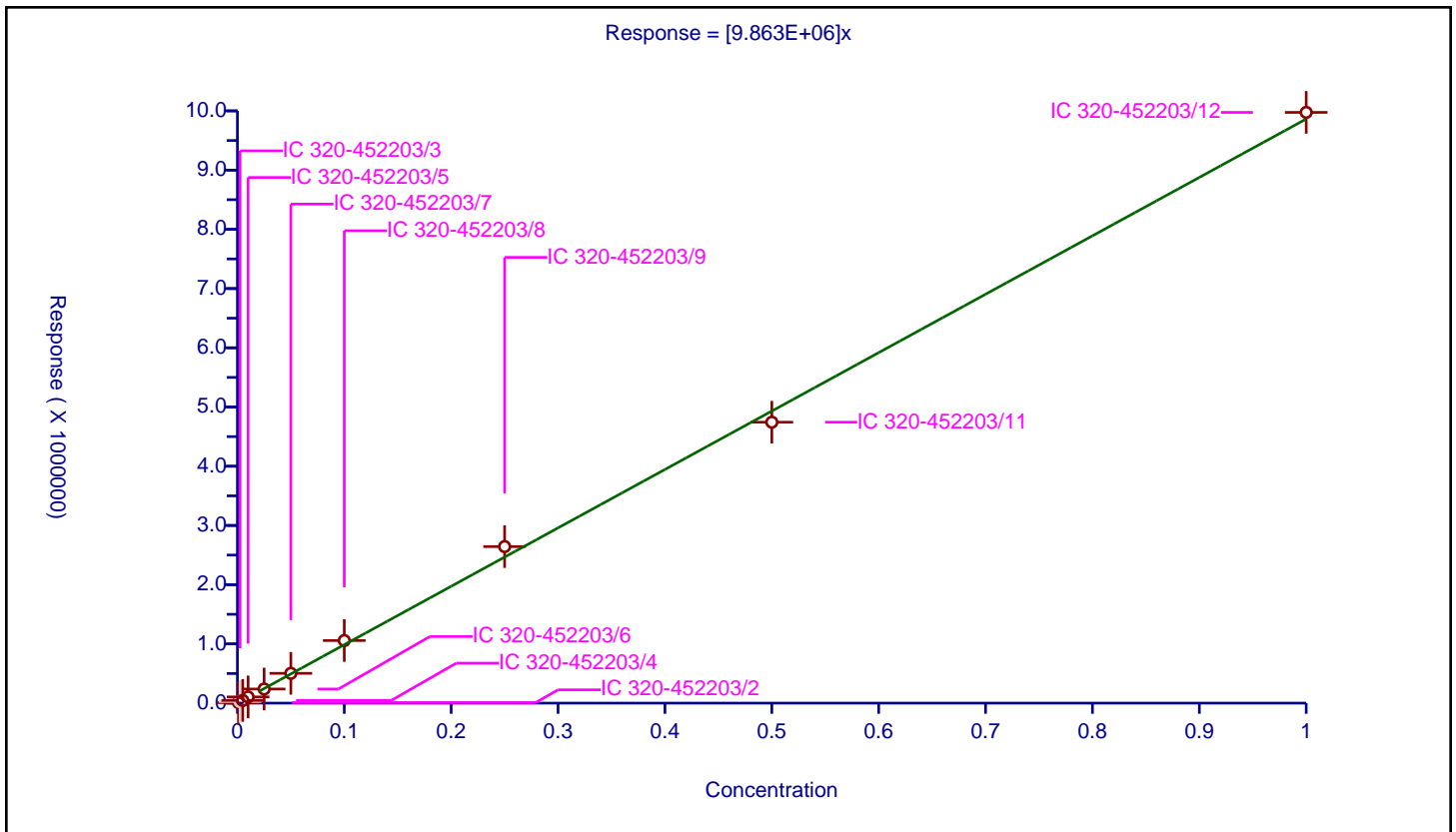
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.863E+06

Error Coefficients	
Standard Error:	103000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	8803.0			8803000.0	Y
2	IC 320-452203/3	0.0025	27061.0			10824400.0	N
3	IC 320-452203/4	0.005	46258.0			9251600.0	Y
4	IC 320-452203/5	0.01	105021.0			10502100.0	Y
5	IC 320-452203/6	0.025	238696.0			9547840.0	Y
6	IC 320-452203/7	0.05	502857.0			10057140.0	Y
7	IC 320-452203/8	0.1	1057183.0			10571830.0	Y
8	IC 320-452203/9	0.25	2643375.0			10573500.0	Y
9	IC 320-452203/11	0.5	4743364.0			9486728.0	Y
10	IC 320-452203/12	1.0	9974161.0			9974161.0	Y





**Calibration**

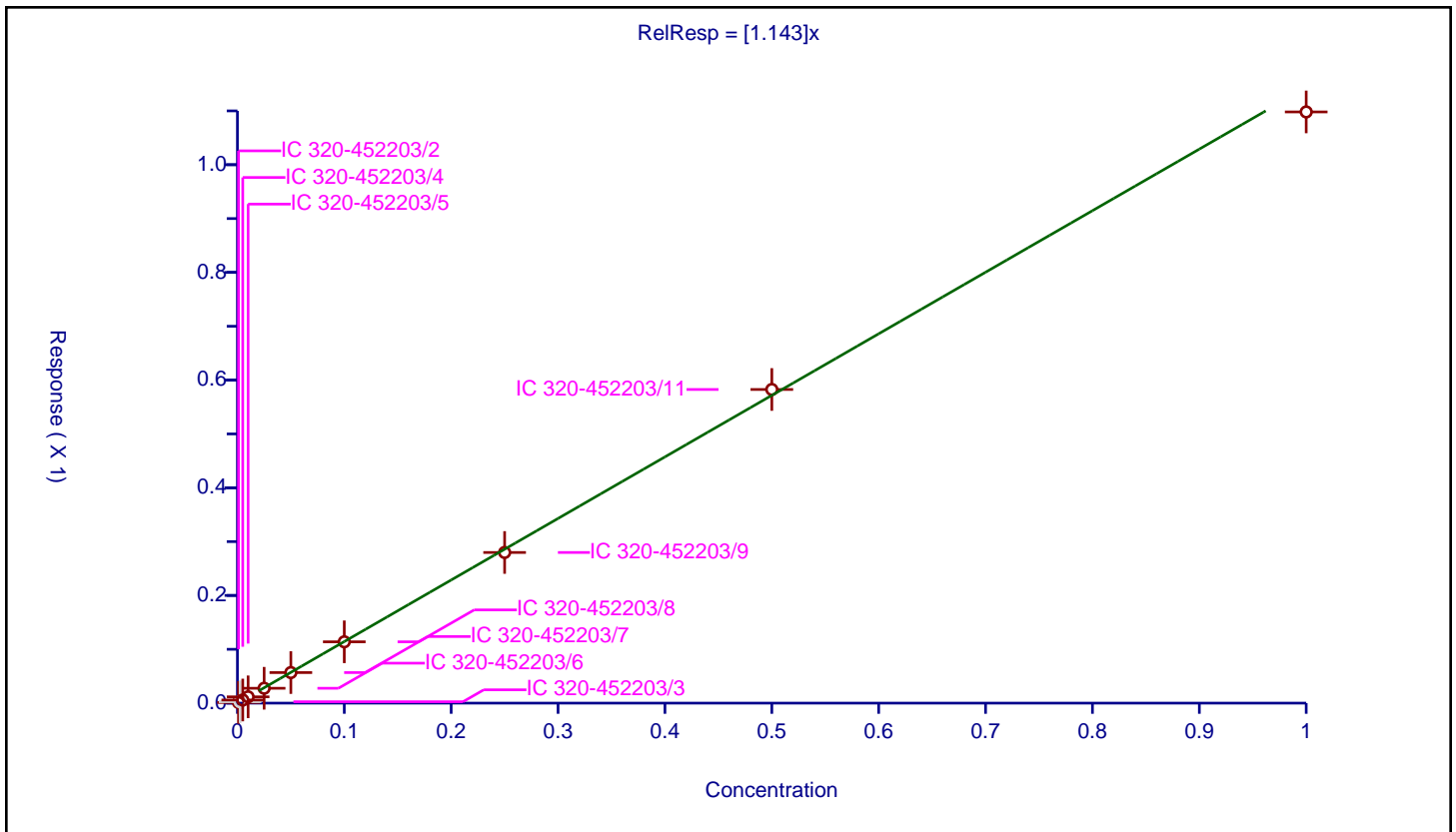
**/ Perfluoro(2-propoxypropanoic) acid**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.143

Error Coefficients	
Standard Error:	2580000
Relative Standard Error:	2.8
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-452203/2	0.001	0.001193	0.25	1609332.0	1.192886	Y
2	IC 320-452203/3	0.0025	0.002593	0.25	1588419.0	1.037069	N
3	IC 320-452203/4	0.005	0.005822	0.25	1593020.0	1.164486	Y
4	IC 320-452203/5	0.01	0.011705	0.25	1582826.0	1.170501	Y
5	IC 320-452203/6	0.025	0.027621	0.25	1594077.0	1.104859	Y
6	IC 320-452203/7	0.05	0.056775	0.25	1536063.0	1.1355	Y
7	IC 320-452203/8	0.1	0.113924	0.25	1572463.0	1.139243	Y
8	IC 320-452203/9	0.25	0.279832	0.25	1557030.0	1.119328	Y
9	IC 320-452203/11	0.5	0.58255	0.25	1462096.0	1.165101	Y
10	IC 320-452203/12	1.0	1.098085	0.25	1403301.0	1.098085	Y



Calibration

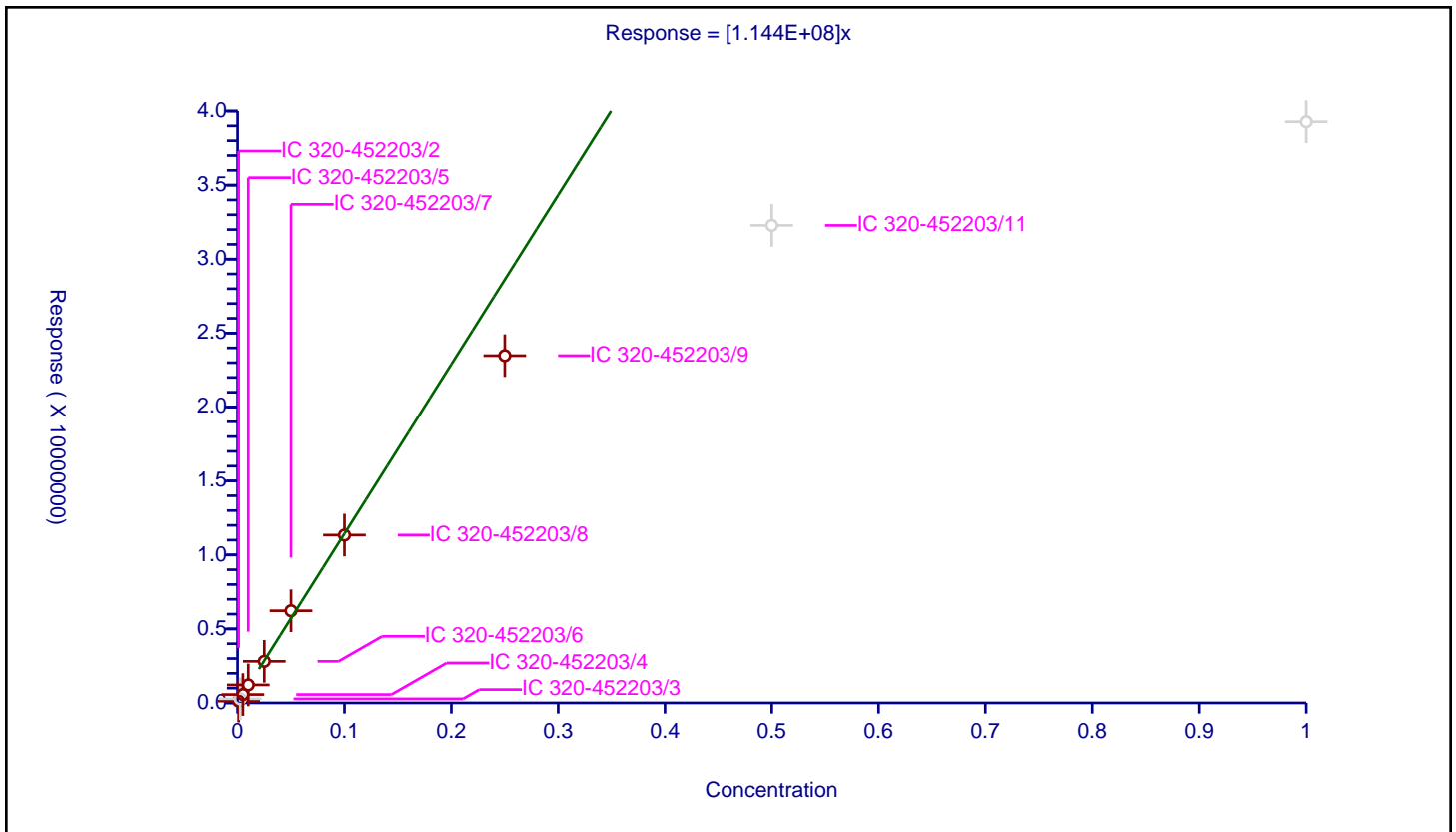
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.144E+08

Error Coefficients	
Standard Error:	2110000
Relative Standard Error:	9.0
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	121866.0			121866000.0	Y
2	IC 320-452203/3	0.0025	276289.0			110515600.0	N
3	IC 320-452203/4	0.005	566165.0			113233000.0	Y
4	IC 320-452203/5	0.01	1217124.0			121712400.0	Y
5	IC 320-452203/6	0.025	2810550.0			112422000.0	Y
6	IC 320-452203/7	0.05	6228288.0			124565760.0	Y
7	IC 320-452203/8	0.1	11342280.0			113422800.0	Y
8	IC 320-452203/9	0.25	23474760.0			93899040.0	Y
9	IC 320-452203/11	0.5	32282549.0			64565098.0	N
10	IC 320-452203/12	1.0	39279145.0			39279145.0	N



**Calibration**

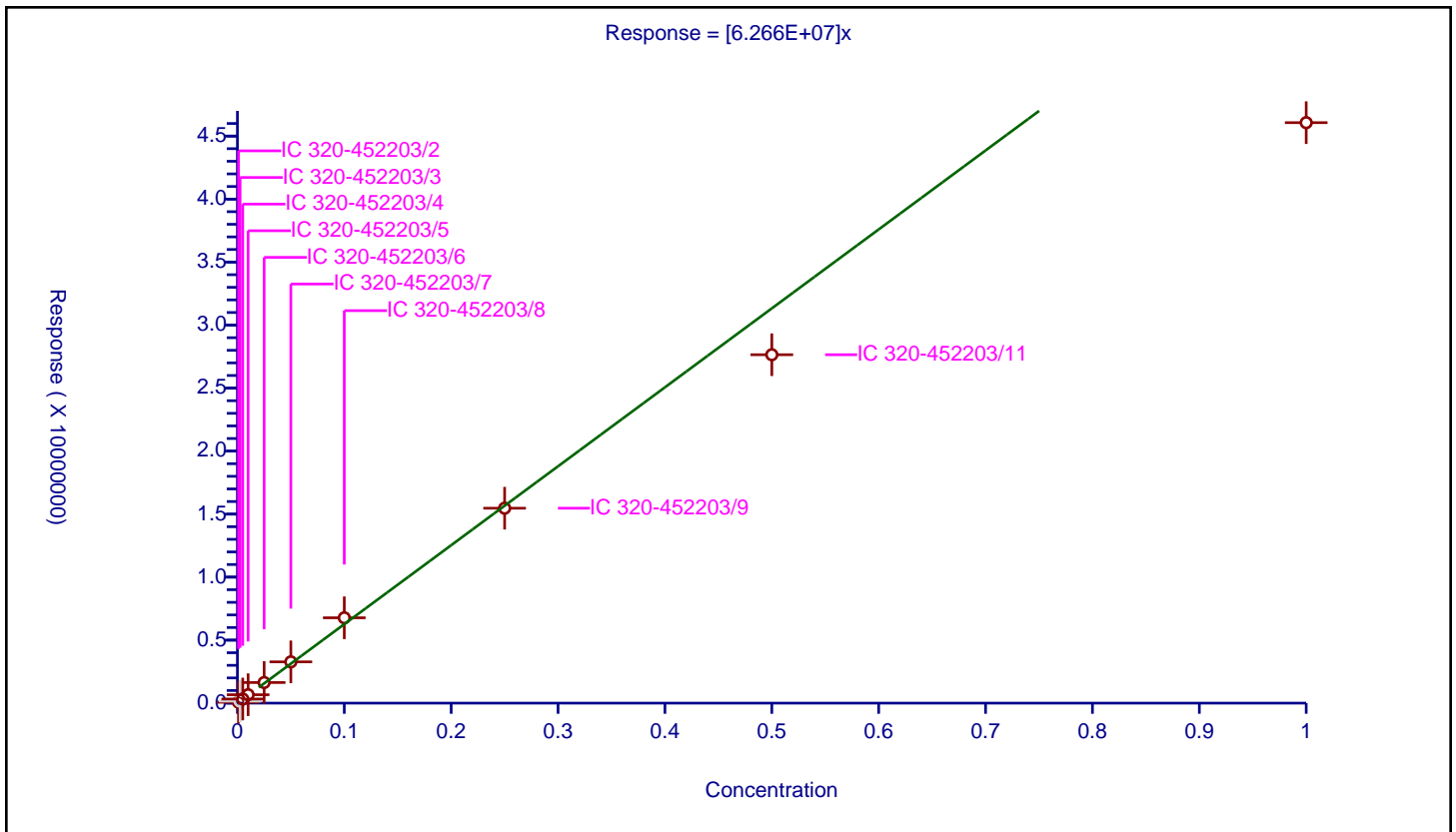
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.266E+07

Error Coefficients	
Standard Error:	6010000
Relative Standard Error:	11.9
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	69831.0			69831000.0	Y
2	IC 320-452203/3	0.0025	161029.0			64411600.0	N
3	IC 320-452203/4	0.005	327135.0			65427000.0	Y
4	IC 320-452203/5	0.01	667880.0			66788000.0	Y
5	IC 320-452203/6	0.025	1634846.0			65393840.0	Y
6	IC 320-452203/7	0.05	3274620.0			65492400.0	Y
7	IC 320-452203/8	0.1	6772093.0			67720930.0	Y
8	IC 320-452203/9	0.25	15469187.0			61876748.0	Y
9	IC 320-452203/11	0.5	27650557.0			55301114.0	Y
10	IC 320-452203/12	1.0	46064842.0			46064842.0	Y



**Calibration**

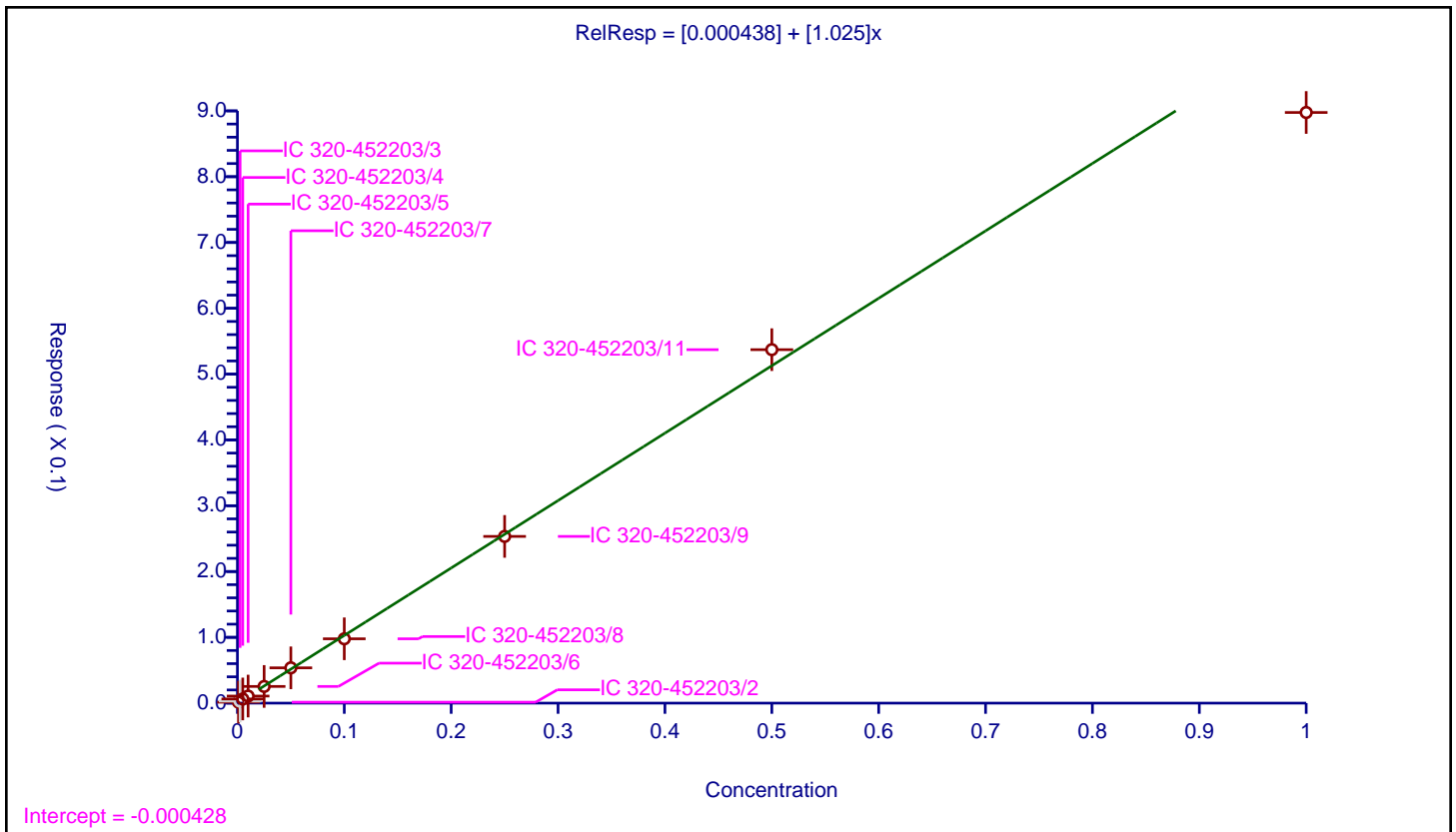
/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.000438
Slope:	1.025

Error Coefficients	
Standard Error:	8970000
Relative Standard Error:	8.2
Correlation Coefficient:	0.981
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-452203/2	0.001	0.001432	0.25	6834229.0	1.43191	Y
2	IC 320-452203/3	0.0025	0.003105	0.25	6888789.0	1.241902	N
3	IC 320-452203/4	0.005	0.006338	0.25	6432725.0	1.267503	Y
4	IC 320-452203/5	0.01	0.010743	0.25	7043732.0	1.074253	Y
5	IC 320-452203/6	0.025	0.02537	0.25	6892186.0	1.014812	Y
6	IC 320-452203/7	0.05	0.053663	0.25	6779980.0	1.073259	Y
7	IC 320-452203/8	0.1	0.097777	0.25	7071556.0	0.97777	Y
8	IC 320-452203/9	0.25	0.253345	0.25	6337927.0	1.013382	Y
9	IC 320-452203/11	0.5	0.537168	0.25	5690442.0	1.074336	Y
10	IC 320-452203/12	1.0	0.897553	0.25	5300343.0	0.897553	Y



**Calibration**

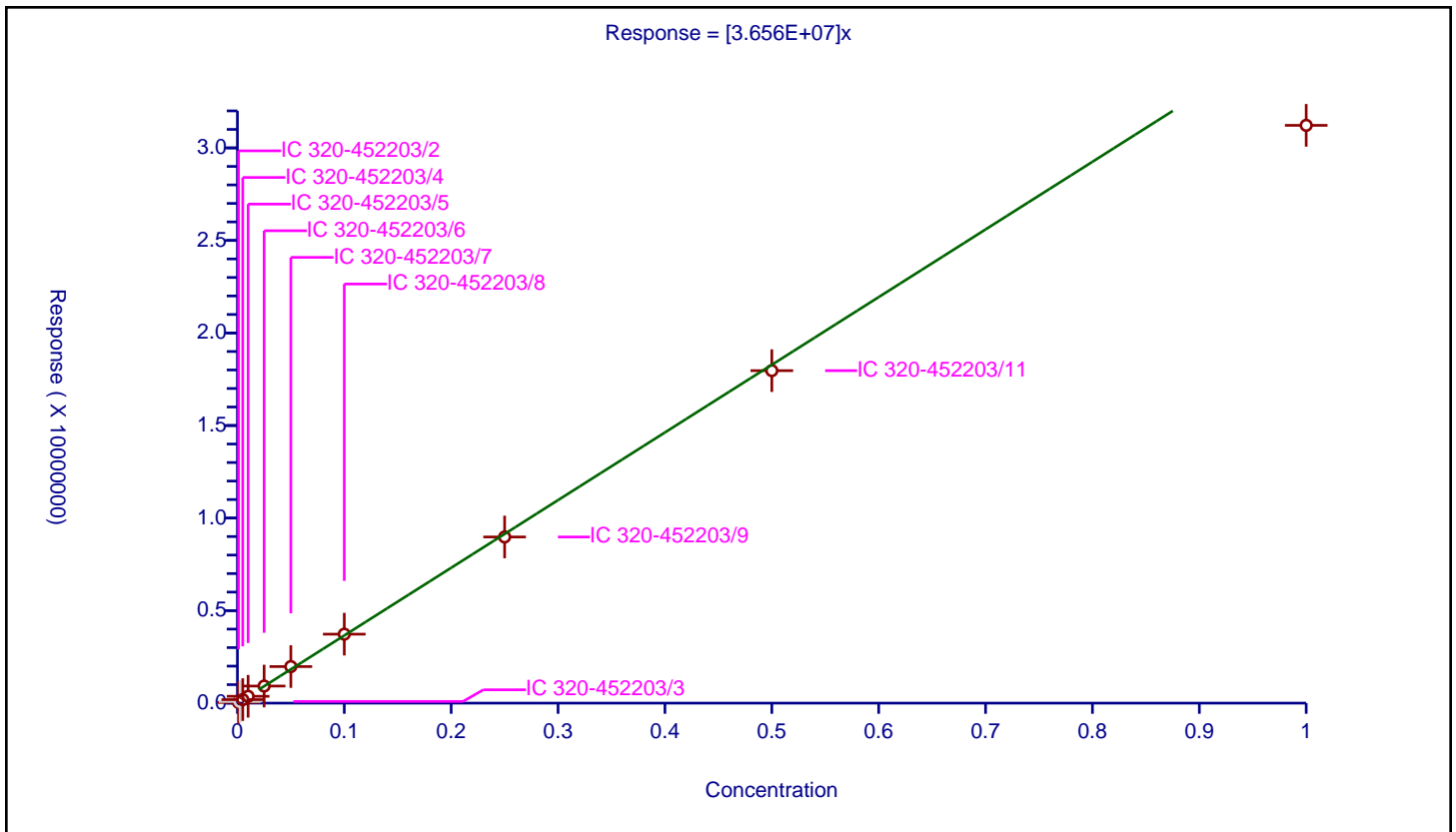
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.656E+07

Error Coefficients	
Standard Error:	1890000
Relative Standard Error:	6.3
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	37128.0			37128000.0	Y
2	IC 320-452203/3	0.0025	90610.0			36244000.0	N
3	IC 320-452203/4	0.005	190993.0			38198600.0	Y
4	IC 320-452203/5	0.01	370017.0			37001700.0	Y
5	IC 320-452203/6	0.025	922630.0			36905200.0	Y
6	IC 320-452203/7	0.05	1975444.0			39508880.0	Y
7	IC 320-452203/8	0.1	3726480.0			37264800.0	Y
8	IC 320-452203/9	0.25	8978224.0			35912896.0	Y
9	IC 320-452203/11	0.5	17964210.0			35928420.0	Y
10	IC 320-452203/12	1.0	31219062.0			31219062.0	Y



Calibration

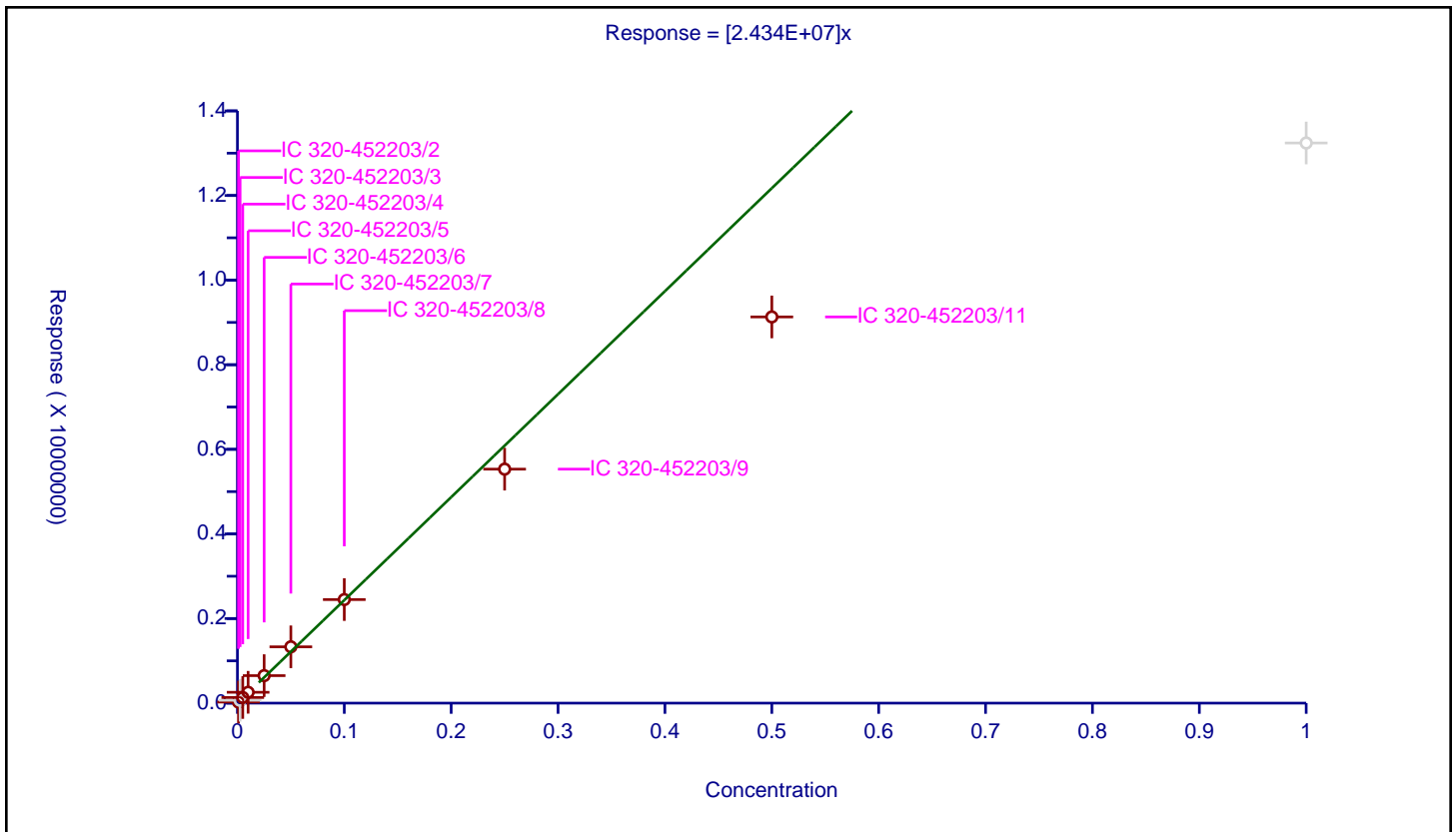
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.434E+07

Error Coefficients	
Standard Error:	1170000
Relative Standard Error:	11.7
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.984

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	24987.0			24987000.0	Y
2	IC 320-452203/3	0.0025	67660.0			27064000.0	N
3	IC 320-452203/4	0.005	132983.0			26596600.0	Y
4	IC 320-452203/5	0.01	256726.0			25672600.0	Y
5	IC 320-452203/6	0.025	650333.0			26013320.0	Y
6	IC 320-452203/7	0.05	1331230.0			26624600.0	Y
7	IC 320-452203/8	0.1	2448058.0			24480580.0	Y
8	IC 320-452203/9	0.25	5531081.0			22124324.0	Y
9	IC 320-452203/11	0.5	9129327.0			18258654.0	Y
10	IC 320-452203/12	1.0	13241285.0			13241285.0	N



Calibration

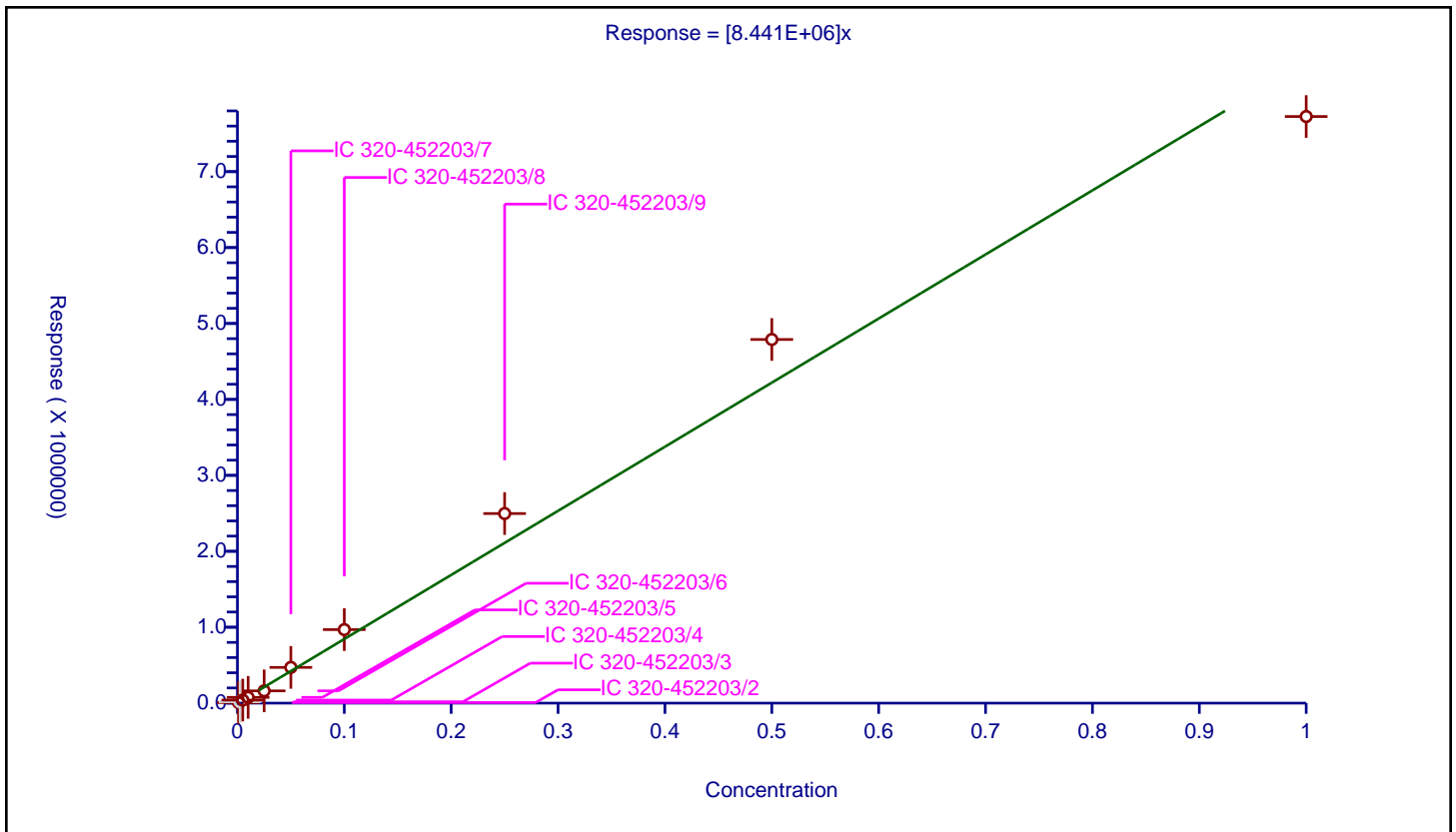
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.441E+06

Error Coefficients	
Standard Error:	354000
Relative Standard Error:	14.7
Correlation Coefficient:	0.986
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	7499.0			7499000.0	Y
2	IC 320-452203/3	0.0025	17967.0			7186800.0	N
3	IC 320-452203/4	0.005	40180.0			8036000.0	Y
4	IC 320-452203/5	0.01	75902.0			7590200.0	Y
5	IC 320-452203/6	0.025	161499.0			6459960.0	Y
6	IC 320-452203/7	0.05	470646.0			9412920.0	Y
7	IC 320-452203/8	0.1	968226.0			9682260.0	Y
8	IC 320-452203/9	0.25	2496829.0			9987316.0	Y
9	IC 320-452203/11	0.5	4789237.0			9578474.0	Y
10	IC 320-452203/12	1.0	7726158.0			7726158.0	Y



**Calibration**

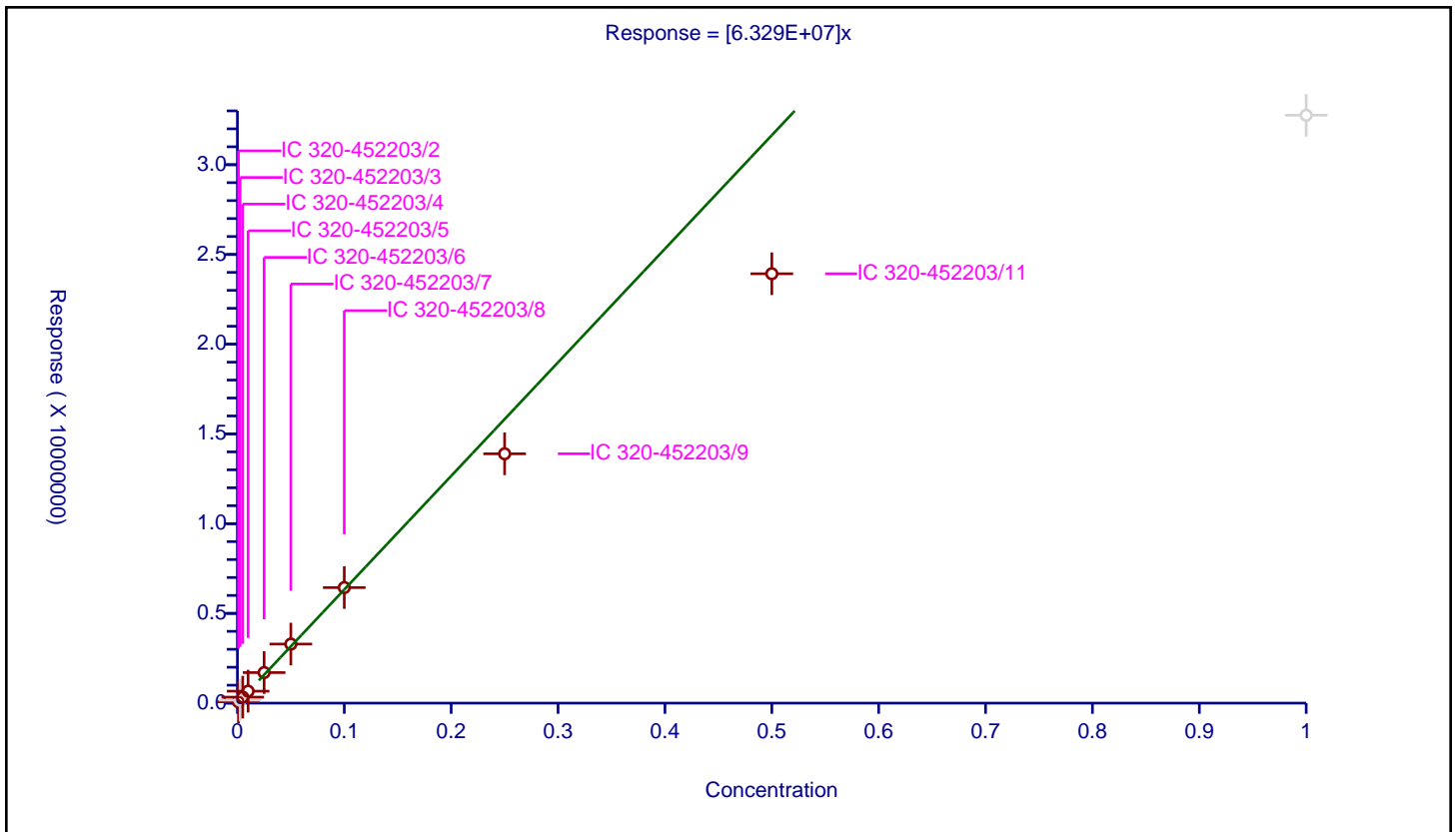
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	6.329E+07

Error Coefficients	
Standard Error:	3010000
Relative Standard Error:	12.2
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	71433.0			71433000.0	Y
2	IC 320-452203/3	0.0025	167318.0			66927200.0	N
3	IC 320-452203/4	0.005	332461.0			66492200.0	Y
4	IC 320-452203/5	0.01	666546.0			66654600.0	Y
5	IC 320-452203/6	0.025	1703030.0			68121200.0	Y
6	IC 320-452203/7	0.05	3290602.0			65812040.0	Y
7	IC 320-452203/8	0.1	6439096.0			64390960.0	Y
8	IC 320-452203/9	0.25	13892211.0			55568844.0	Y
9	IC 320-452203/11	0.5	23925419.0			47850838.0	Y
10	IC 320-452203/12	1.0	32758108.0			32758108.0	N





**Calibration**

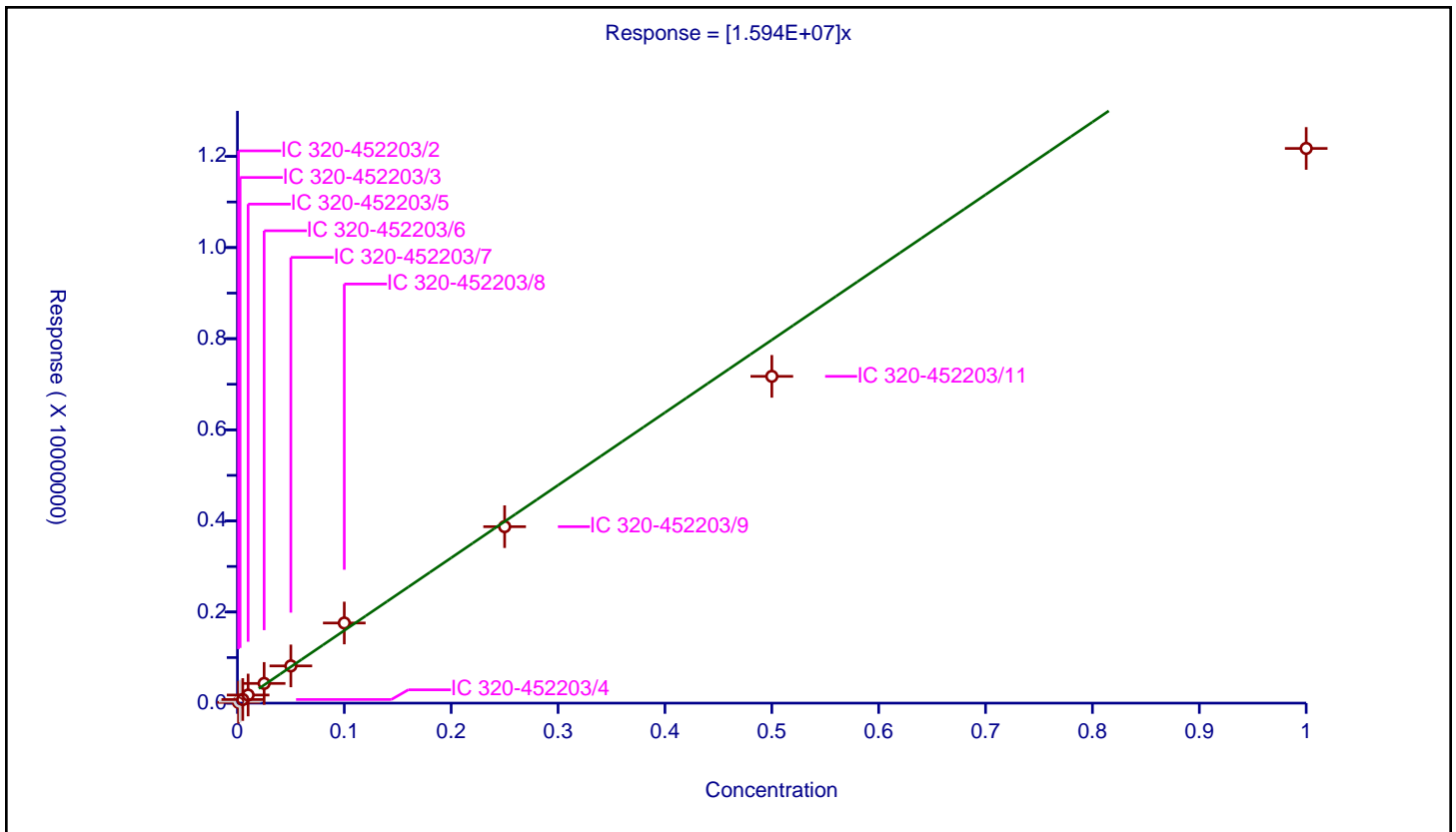
**/ PS Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.594E+07

Error Coefficients	
Standard Error:	1360000
Relative Standard Error:	11.2
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	16613.0			16613000.0	Y
2	IC 320-452203/3	0.0025	42359.0			16943600.0	N
3	IC 320-452203/4	0.005	79369.0			15873800.0	Y
4	IC 320-452203/5	0.01	177733.0			17773300.0	Y
5	IC 320-452203/6	0.025	432556.0			17302240.0	Y
6	IC 320-452203/7	0.05	816851.0			16337020.0	Y
7	IC 320-452203/8	0.1	1758817.0			17588170.0	Y
8	IC 320-452203/9	0.25	3873272.0			15493088.0	Y
9	IC 320-452203/11	0.5	7173033.0			14346066.0	Y
10	IC 320-452203/12	1.0	12175406.0			12175406.0	Y



Calibration

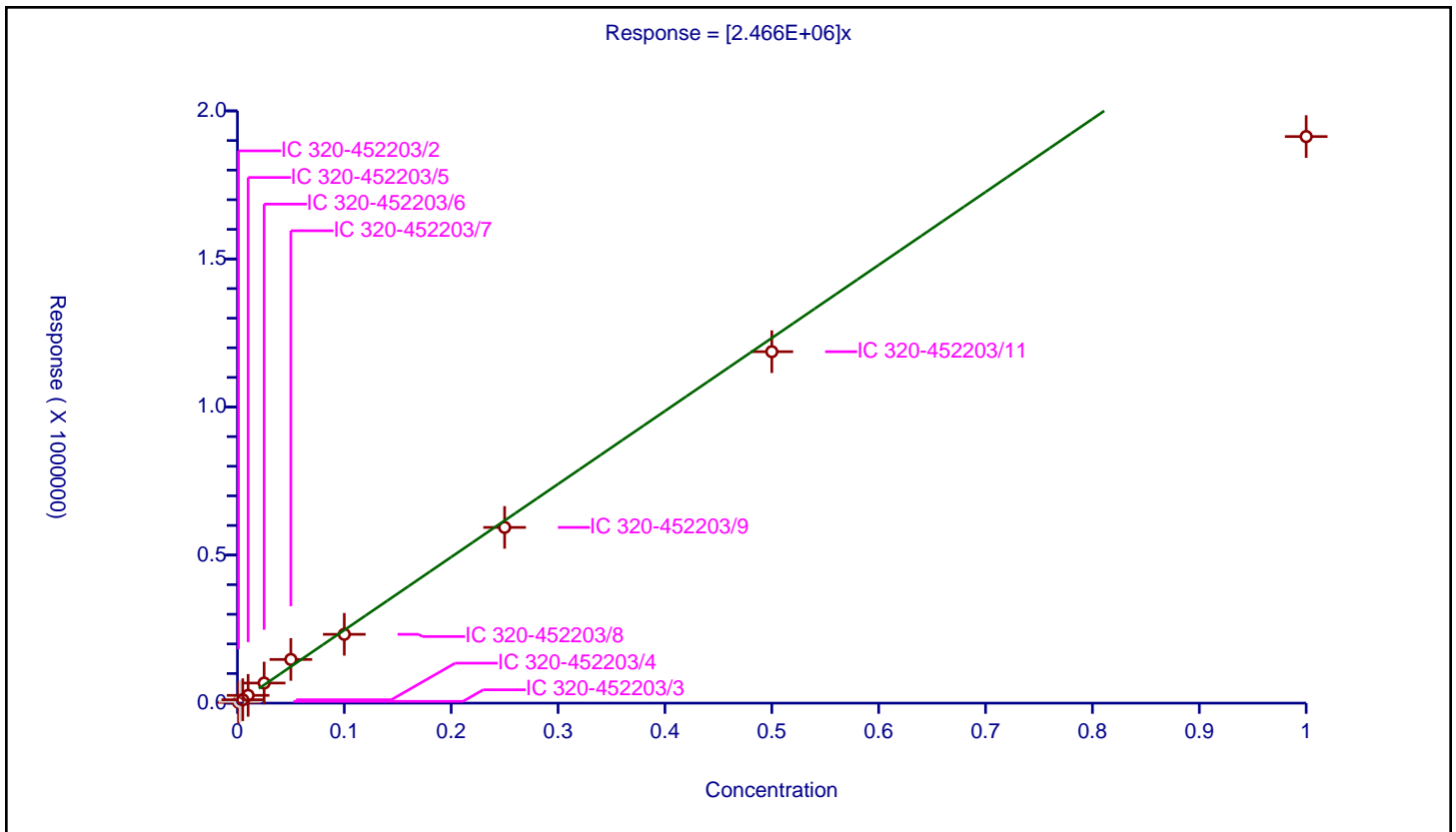
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.466E+06

Error Coefficients	
Standard Error:	197000
Relative Standard Error:	12.2
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.983

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-452203/2	0.001	2633.0			2633000.0	Y
2	IC 320-452203/3	0.0025	5961.0			2384400.0	N
3	IC 320-452203/4	0.005	11452.0			2290400.0	Y
4	IC 320-452203/5	0.01	26221.0			2622100.0	Y
5	IC 320-452203/6	0.025	67847.0			2713880.0	Y
6	IC 320-452203/7	0.05	147498.0			2949960.0	Y
7	IC 320-452203/8	0.1	232347.0			2323470.0	Y
8	IC 320-452203/9	0.25	593386.0			2373544.0	Y
9	IC 320-452203/11	0.5	1186868.0			2373736.0	Y
10	IC 320-452203/12	1.0	1913289.0			1913289.0	Y



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-452203/14 Calibration Date: 01/15/2021 19:54  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.15.\_A7\_TB3\_A\_ICAL\_016.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	13269020		94.8	100	-5.2	30.0
R-EVE	Ave	8229186	8201440		99.7	100	-0.3	50.0
R-PSDA	Ave	6128733	5700270		93.0	100	-7.0	50.0
Hydrolyzed PSDA	Ave	22087301	21857490		99.0	100	-1.0	50.0
PMPA	Lin2		10481260		95.1	100	-4.9	30.0
NVHOS	Ave	17629226	16851670		95.6	100	-4.4	30.0
PFO2HxA	Ave	13398274	12779910		95.4	100	-4.6	30.0
PEPA	Ave	7285690	7602970		104	100	4.4	30.0
PES	Ave	85378317	87145820		102	100	2.1	30.0
PFECA B	Ave	8635464	8464610		98.0	100	-2.0	30.0
PFO3OA	Ave	9863100	10773770		109	100	9.2	30.0
HFPO-DA	AveID	1.143	1.060		92.7	100	-7.3	40.0
R-PSDCA	Ave	114445857	107073270		93.6	100	-6.4	30.0
Hydro-EVE Acid	Ave	62655097	62077530		99.1	100	-0.9	30.0
Perfluoroheptanoic acid	L2ID		0.9569		93.0	100	-7.0	40.0
Hydro-PS Acid	Ave	36563062	35599590		97.4	100	-2.6	30.0
PFECA G	Ave	24344710	23544490		96.7	100	-3.3	30.0
PFO4DA	Ave	8441365	8556830		101	100	1.4	30.0
EVE Acid	Ave	63290460	61497970		97.2	100	-2.8	30.0
PS Acid	Ave	15944677	16544000		104	100	3.8	30.0
PFO5DA	Ave	2465931	2179200		88.4	100	-11.6	50.0
13C3 HFPO-DA	Ave	6182315	6020092		243	250	-2.6	50.0
13C4 PFHpA	Ave	25948053	26680864		257	250	2.8	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_016.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 15-Jan-2021 19:54:10 ALS Bottle#: 16 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (45)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 16-Jan-2021 12:05:12 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 16-Jan-2021 11:54:47

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.347	3.330	0.017		1326902	0.0948		2908		M
2 R-EVE										M
405.00 > 217.00	6.884	6.897	-0.013		820144	0.0997		8139		M
3 R-PSDA										
440.90 > 241.00	6.948	6.975	-0.027		570027	0.0930		9032		
4 Hydrolyzed PSDA										
439.00 > 343.00	7.044	7.058	-0.014		2185749	0.0990		32871		
5 PMPA										
229.00 > 185.00	7.154	7.168	-0.014		1048126	0.0951		1260		
6 NVHOS										
297.00 > 135.00	7.663	7.676	-0.013		1685167	0.0956		18454		
7 PFO2HxA										
245.00 > 85.00	8.282	8.297	-0.015		1277991	0.0954		9762		
8 PEPA										
278.90 > 234.90	8.929	8.917	0.013		760297	0.1044		4232		
9 PES										
314.90 > 135.00	9.199	9.206	-0.007		8714582	0.1021		156258		
10 PFECA B										
295.00 > 201.00	9.416	9.426	-0.010		846461	0.0980		26409		
11 PFO3OA										
310.90 > 85.00	9.654	9.669	-0.015		1077377	0.1092		15491		
13 HPFO-DA										
285.00 > 169.00	9.765	9.779	-0.014	1.000	638165	0.0927		18515		
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.765	9.779	-0.014		1505023	0.2434		97.4	43801	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.121	10.133	-0.012		10707327	0.0936			196732	
16 Hydro-EVE Acid										
427.00 > 282.90	10.147	10.159	-0.012		6207753	0.0991			80700	
D 15 13C4 PFHpA										
367.00 > 322.00	10.173	10.185	-0.012		6670216	0.2571		103	205830	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.173	10.185	-0.012	1.000	2552976	0.0930	Target=0.00		33786	
363.00 > 169.00	10.173	10.185	-0.012	1.000	1551918		1.65(0.00-0.00)		23940	
17 Hydro-PS Acid										
463.00 > 262.90	10.199	10.185	0.014		3559959	0.0974			87097	
19 PFECA G										
378.90 > 184.90	10.304	10.290	0.014		2354449	0.0967			73422	
20 PFO4DA										
376.90 > 85.00	10.428	10.440	-0.012		855683	0.1014			11700	
21 PS Acid										
443.00 > 146.90	10.503	10.514	-0.011		1654400	0.1038			53760	
22 EVE Acid										
407.00 > 262.90	10.503	10.514	-0.011		6149797	0.0972			117963	
23 TAF										
442.90 > 85.00	11.028	11.018	0.010		217920	0.0884			752	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00045

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_016.d

Injection Date: 15-Jan-2021 19:54:10

Instrument ID: A7\_N

Lims ID: ICV

Client ID:

Operator ID: abservice

ALS Bottle#: 16

Worklist Smp#: 14

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

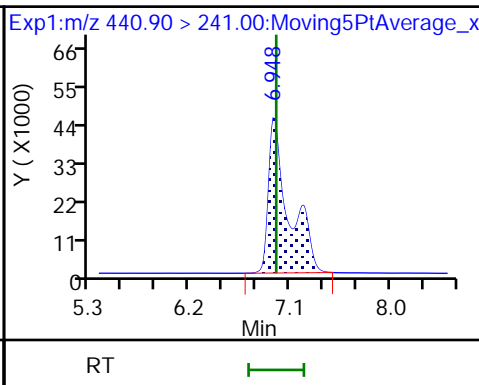
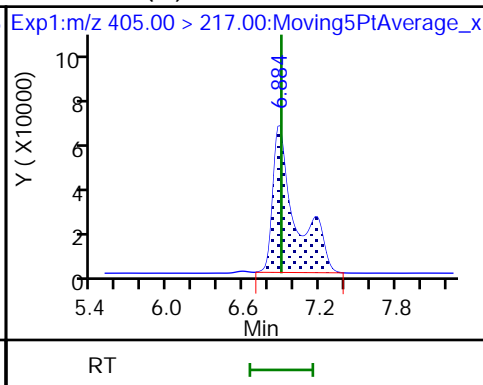
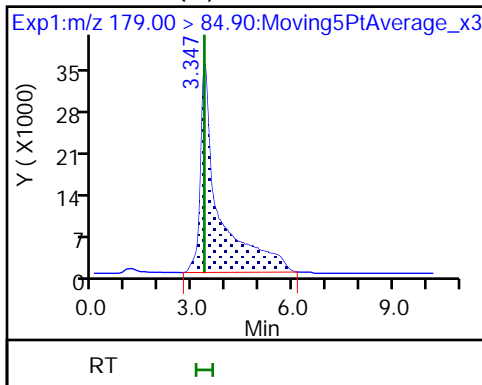
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

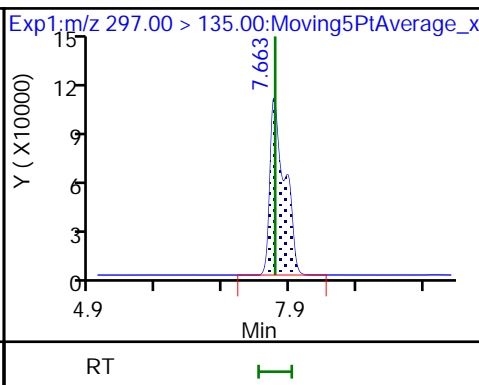
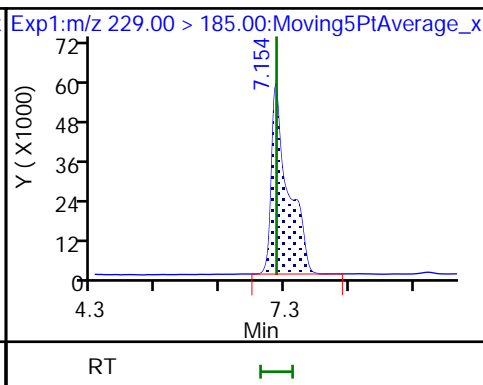
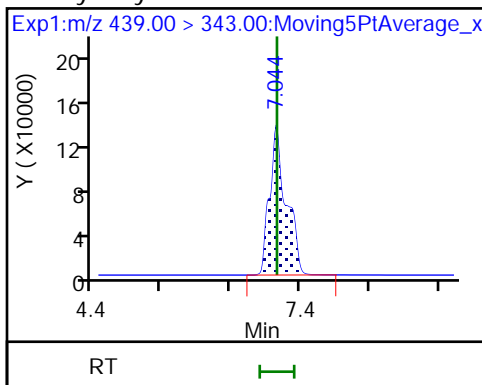
3 R-PSDA



4 Hydrolyzed PSDA

5 PMPA

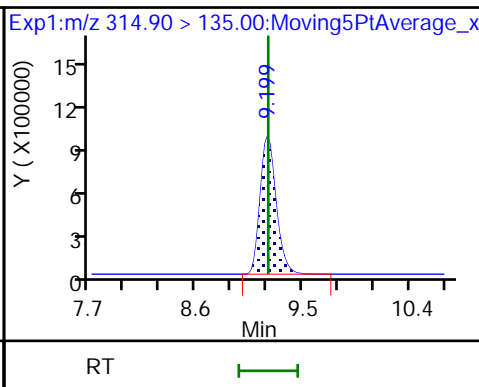
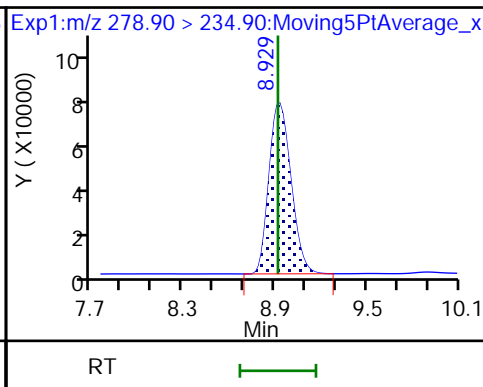
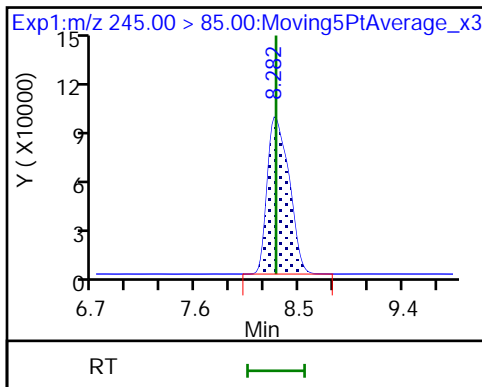
6 NVHOS



7 PFO2HxA

8 PEPA

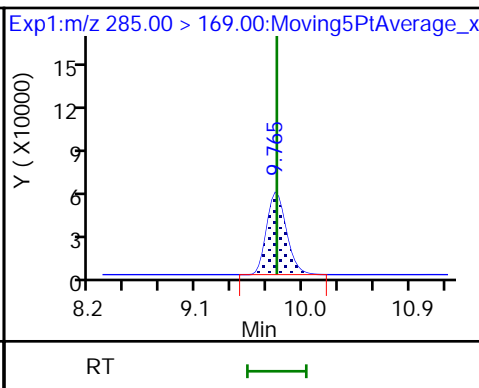
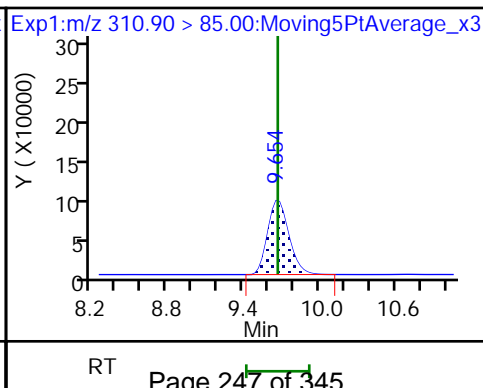
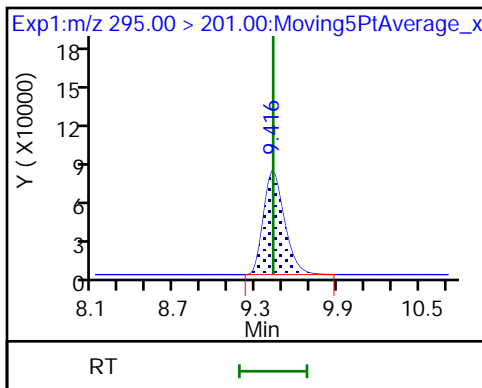
9 PES



10 PFECA B

11 PFO3OA

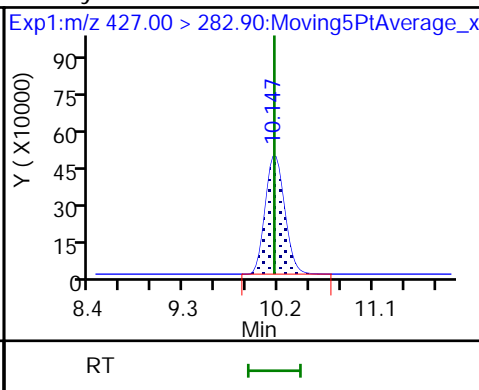
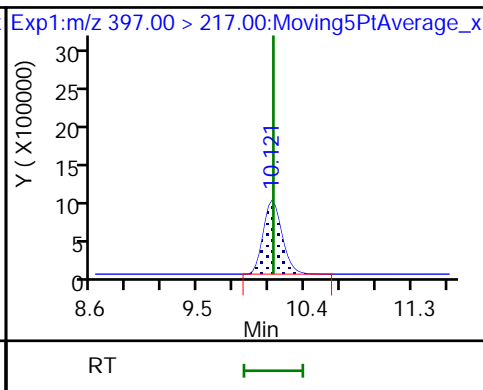
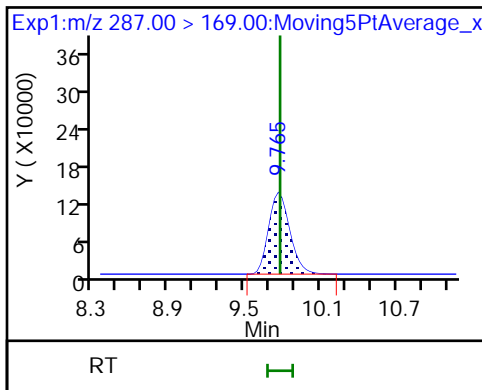
13 HPFO-DA



D 12 13C3 HFPO-DA

14 R-PSDCA

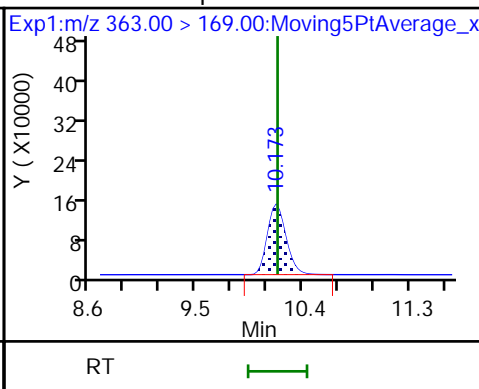
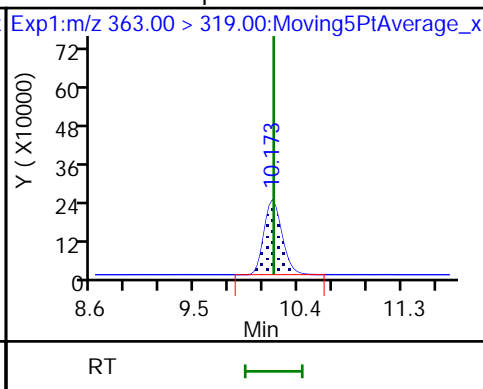
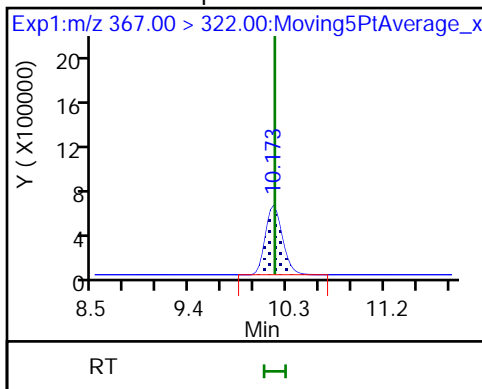
16 Hydro-EVE Acid



D 15 13C4 PFHpA

18 Perfluoroheptanoic acid

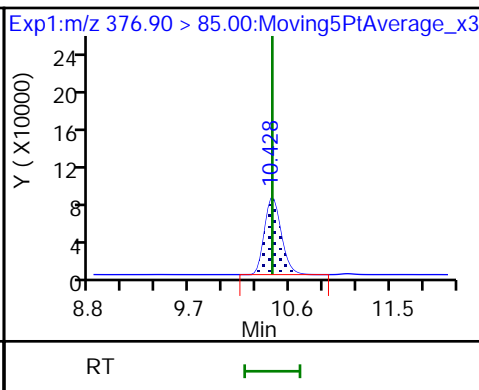
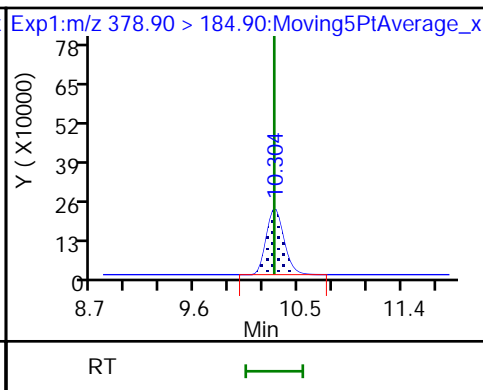
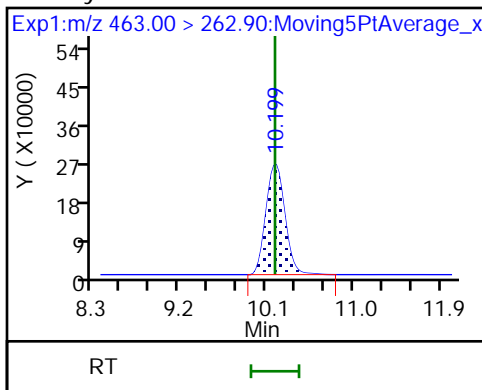
18 Perfluoroheptanoic acid



17 Hydro-PS Acid

19 PFECA G

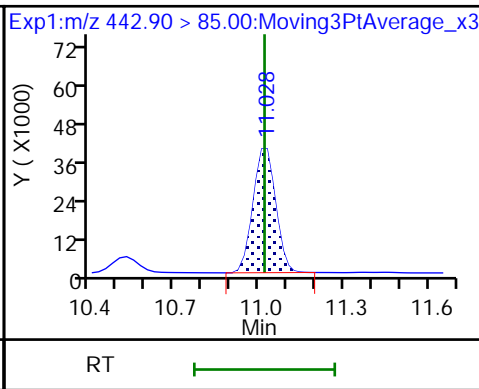
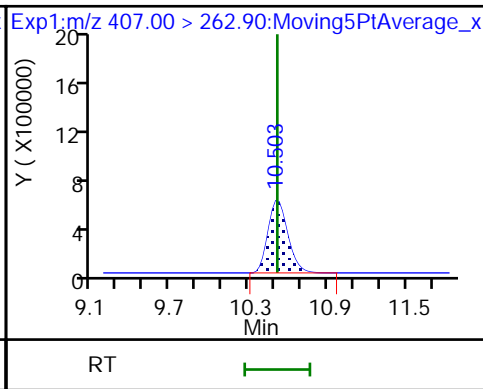
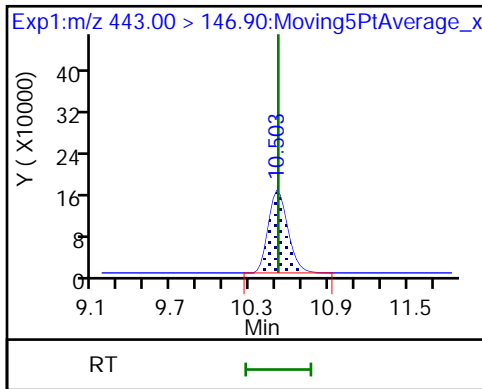
20 PFO4DA



21 PS Acid

22 EVE Acid

23 TAF







Eurofins TestAmerica, Sacramento

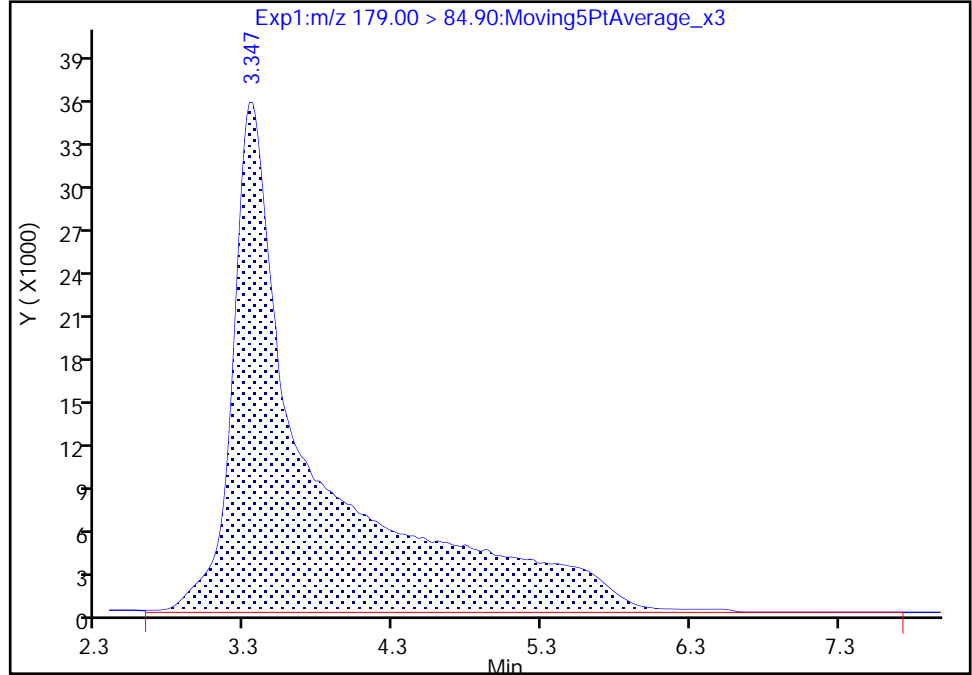
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Injection Date: 15-Jan-2021 19:54:10 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

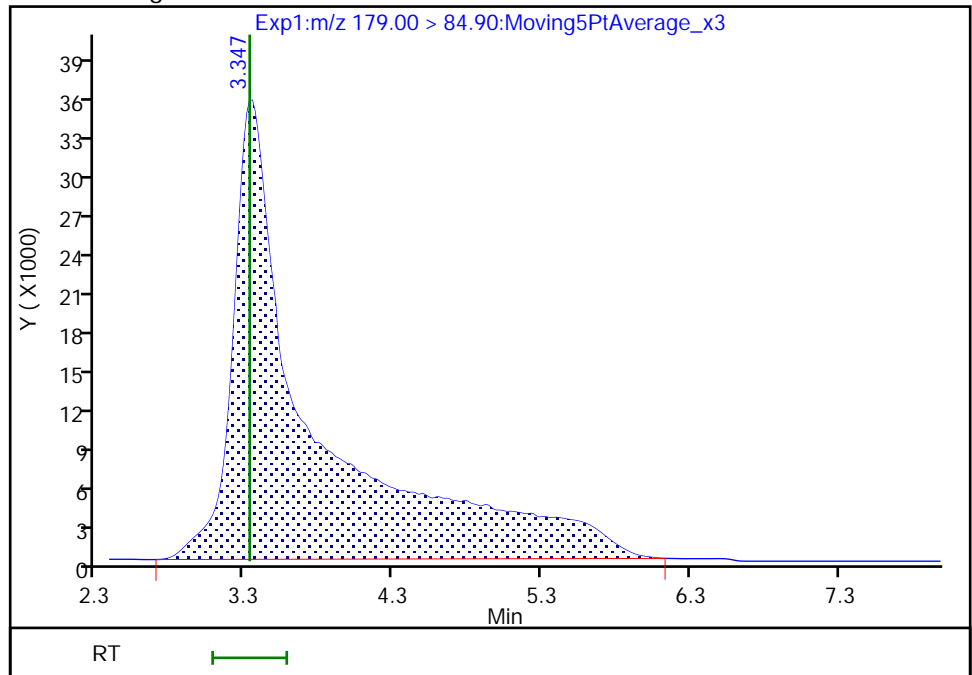
RT: 3.35  
Area: 1368182  
Amount: 0.097900  
Amount Units: ng/ml

Processing Integration Results



RT: 3.35  
Area: 1326902  
Amount: 0.094811  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:54:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

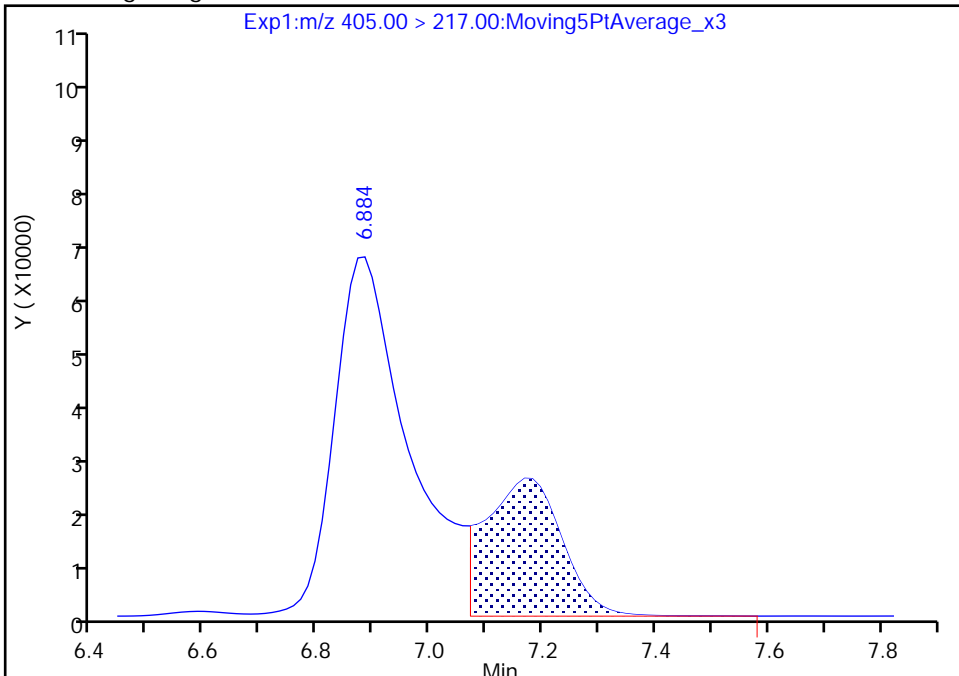
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Injection Date: 15-Jan-2021 19:54:10 Instrument ID: A7\_N  
Lims ID: ICV  
Client ID:  
Operator ID: abservice ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

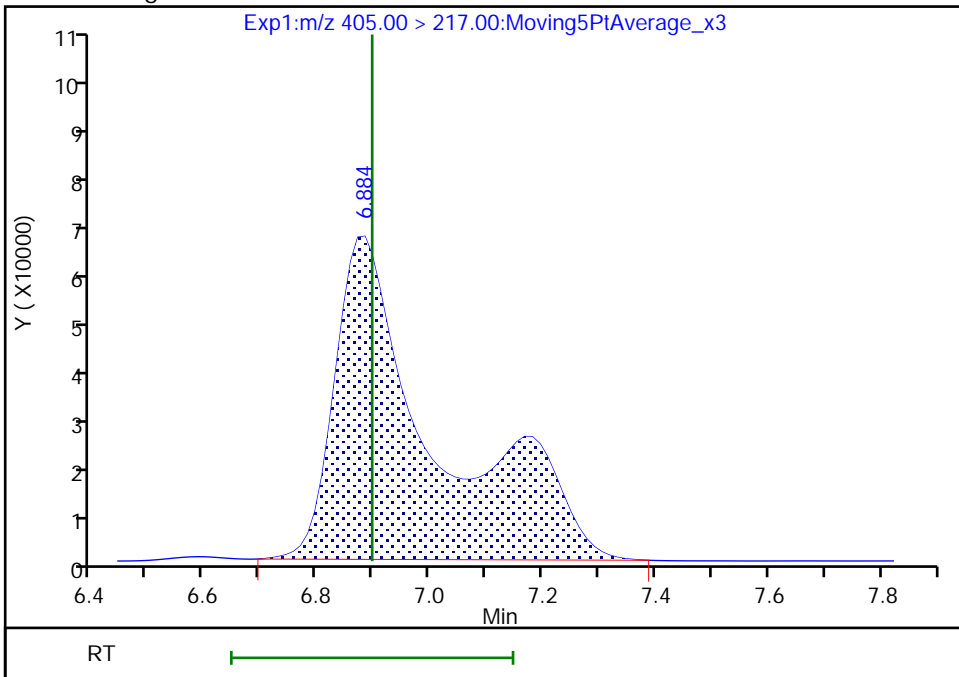
RT: 6.88  
Area: 232958  
Amount: 0.027157  
Amount Units: ng/ml

Processing Integration Results



RT: 6.88  
Area: 820144  
Amount: 0.099663  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 16-Jan-2021 11:54:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 251 of 345

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-456828/1 Calibration Date: 01/29/2021 16:07  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.29\_TB3\_A\_007.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	11887720		84.9	100	-15.1	30.0
R-EVE	Ave	8229186	8217270		99.9	100	-0.1	50.0
R-PSDA	Ave	6128733	4757240		77.6	100	-22.4	50.0
Hydrolyzed PSDA	Ave	22087301	17301110		78.3	100	-21.7	50.0
PMPA	Lin2		9340990		84.7	100	-15.3	30.0
NVHOS	Ave	17629226	16229210		92.1	100	-7.9	30.0
PFO2HxA	Ave	13398274	11790440		88.0	100	-12.0	30.0
PEPA	Ave	7285690	6895410		94.6	100	-5.4	30.0
PES	Ave	85378317	86703720		102	100	1.6	30.0
PFECA B	Ave	8635464	8223890		95.2	100	-4.8	30.0
PFO3OA	Ave	9863100	8262400		83.8	100	-16.2	30.0
HFPO-DA	AveID	1.143	1.145		100	100	0.1	40.0
R-PSDCA	Ave	114445857	107835210		94.2	100	-5.8	30.0
Hydro-EVE Acid	Ave	62655097	63125310		101	100	0.8	30.0
Perfluoroheptanoic acid	L2ID		0.9633		93.6	100	-6.4	40.0
Hydro-PS Acid	Ave	36563062	35002170		95.7	100	-4.3	30.0
PFECA G	Ave	24344710	24087850		98.9	100	-1.1	30.0
PFO4DA	Ave	8441365	8813830		104	100	4.4	30.0
EVE Acid	Ave	63290460	59035900		93.3	100	-6.7	30.0
PS Acid	Ave	15944677	16504000		104	100	3.5	30.0
PFO5DA	Ave	2465931	2566970		104	100	4.1	50.0
13C3 HFPO-DA	Ave	6182315	5200700		210	250	-15.9	50.0
13C4 PFHpA	Ave	25948053	26577032		256	250	2.4	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_007.d  
 Lims ID: CCV 388  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 29-Jan-2021 16:07:38 ALS Bottle#: 7 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (388)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:03:46 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: kurilyaki Date: 30-Jan-2021 09:20:01

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.154	3.084	0.070		1188772	0.0849		84.9	1469	M
2 R-EVE										
405.00 > 217.00	6.808	6.733	0.075		821727	0.0999		99.9	6062	
3 R-PSDA										M
440.90 > 241.00	6.871	6.822	0.049		475724	0.0776		77.6	5907	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.975	6.923	0.052		1730111	0.0783		78.3	17501	M
5 PMPA										M
229.00 > 185.00	7.085	7.031	0.054		934099	0.0847		84.7	861	M
6 NVHOS										M
297.00 > 135.00	7.823	7.567	0.256		1622921	0.0921		92.1	12458	M
7 PFO2HxA										
245.00 > 85.00	8.264	8.197	0.067		1179044	0.0880		88.0	10791	
8 PEPA										
278.90 > 234.90	8.872	8.840	0.032		689541	0.0946		94.6	2862	
9 PES										
314.90 > 135.00	9.157	9.120	0.037		8670372	0.1016		102	167689	
10 PFECA B										
295.00 > 201.00	9.389	9.345	0.044		822389	0.0952		95.2	24433	
11 PFO3OA										
310.90 > 85.00	9.623	9.598	0.025		826240	0.0838		83.8	11365	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.733	9.681	0.052		1300175	0.2103		84.1	36299	
13 HPFO-DA										
285.00 > 169.00	9.733	9.681	0.052	1.000	595358	0.1001		100	16734	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.090	10.041	0.049		10783521	0.0942		94.2	198285	
16 Hydro-EVE Acid										
427.00 > 282.90	10.114	10.092	0.022		6312531	0.1008		101	98716	
D 15 13C4 PFHpA										
367.00 > 322.00	10.139	10.092	0.047		6644258	0.2561		102	208203	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.139	10.092	0.047	1.000	2560102	0.0936	Target=0.00	93.6	48102	
363.00 > 169.00	10.139	10.092	0.047	1.000	1674196		1.53(0.00-0.00)		52409	
17 Hydro-PS Acid										
463.00 > 262.90	10.164	10.117	0.047		3500217	0.0957		95.7	85731	
19 PFECA G										
378.90 > 184.90	10.263	10.216	0.047		2408785	0.0989		98.9	77081	
20 PFO4DA										
376.90 > 85.00	10.412	10.365	0.047		881383	0.1044		104	10638	
21 PS Acid										
443.00 > 146.90	10.487	10.414	0.072		1650400	0.1035		104	53516	
22 EVE Acid										
407.00 > 262.90	10.487	10.439	0.047		5903590	0.0933		93.3	144452	
23 TAF										
442.90 > 85.00	10.989	10.927	0.062		256697	0.1041		104	1158	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00388

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_007.d

Injection Date: 29-Jan-2021 16:07:38

Instrument ID: A7\_N

Lims ID: CCV 388

Client ID:

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 1

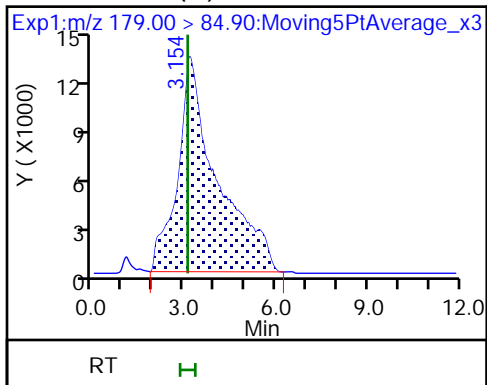
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

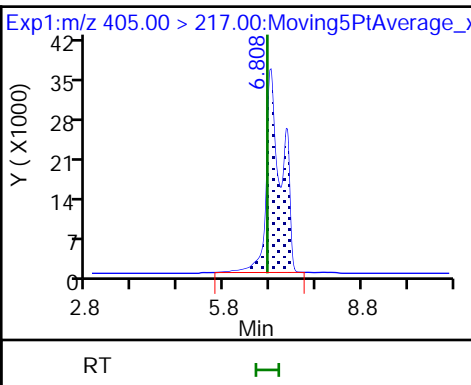
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

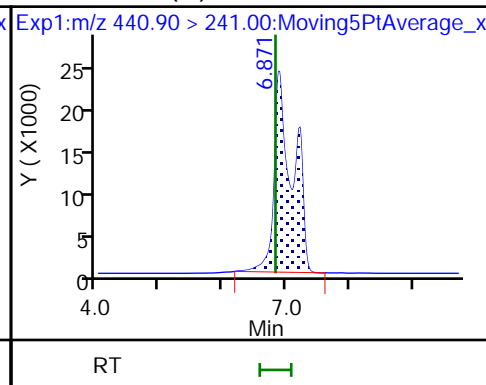
1 PFMOAA (M)



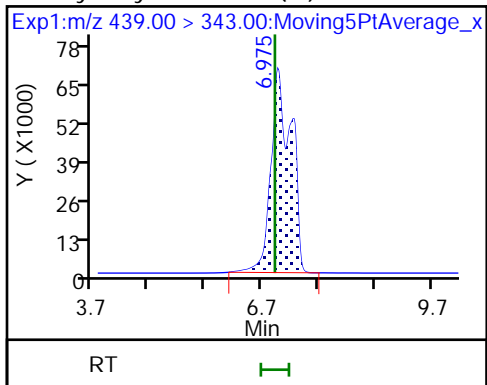
2 R-EVE



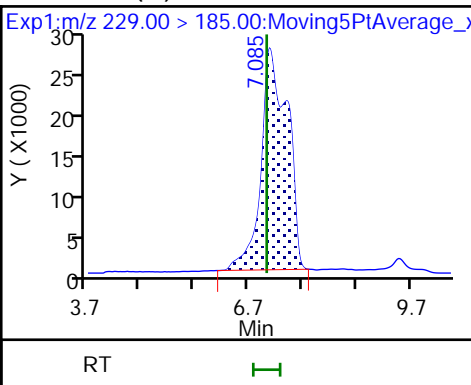
3 R-PSDA (M)



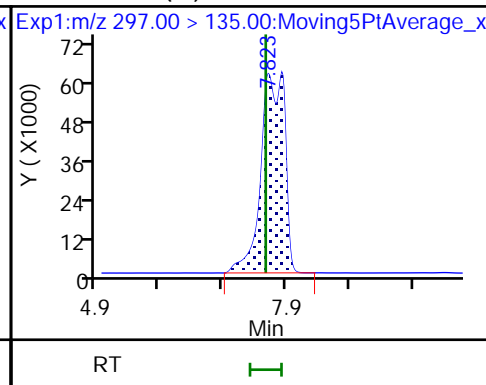
4 Hydrolyzed PSDA (M)



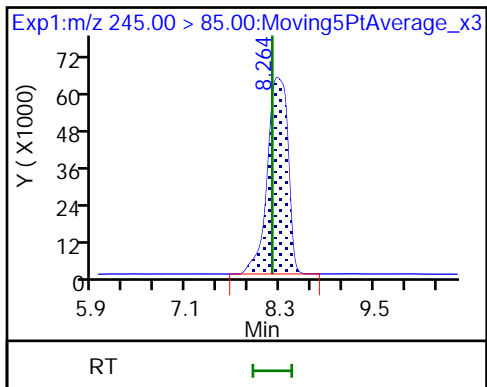
5 PMPA (M)



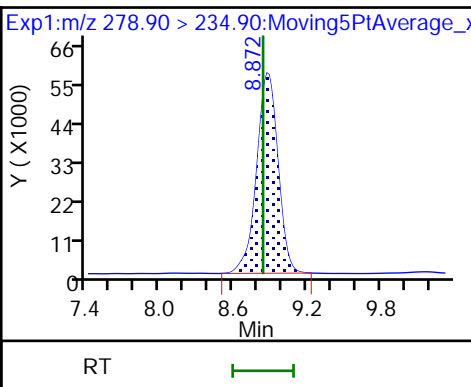
6 NVHOS (M)



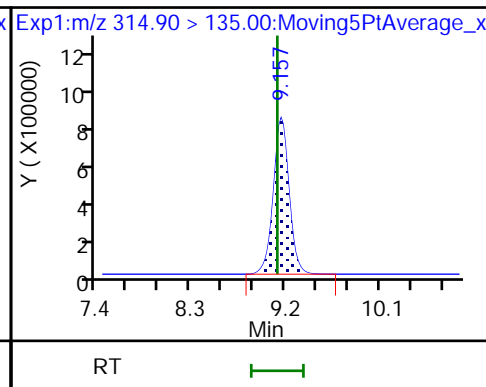
7 PFO2HxA



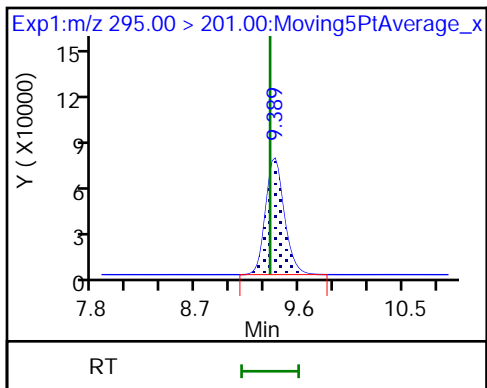
8 PEPA



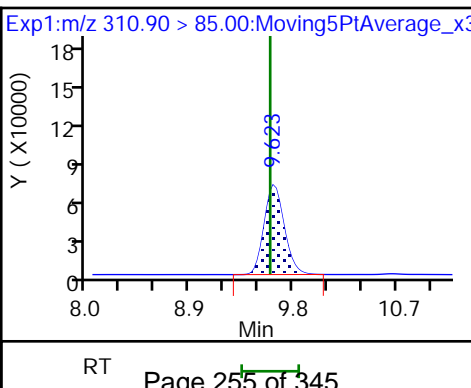
9 PES



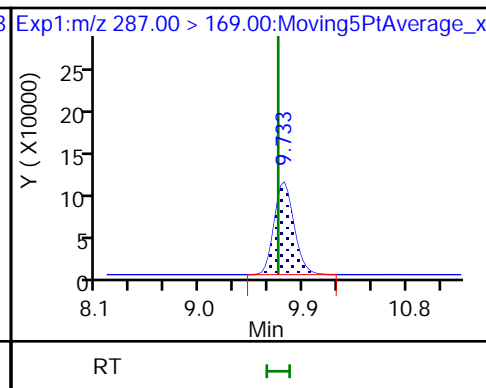
10 PFECA B

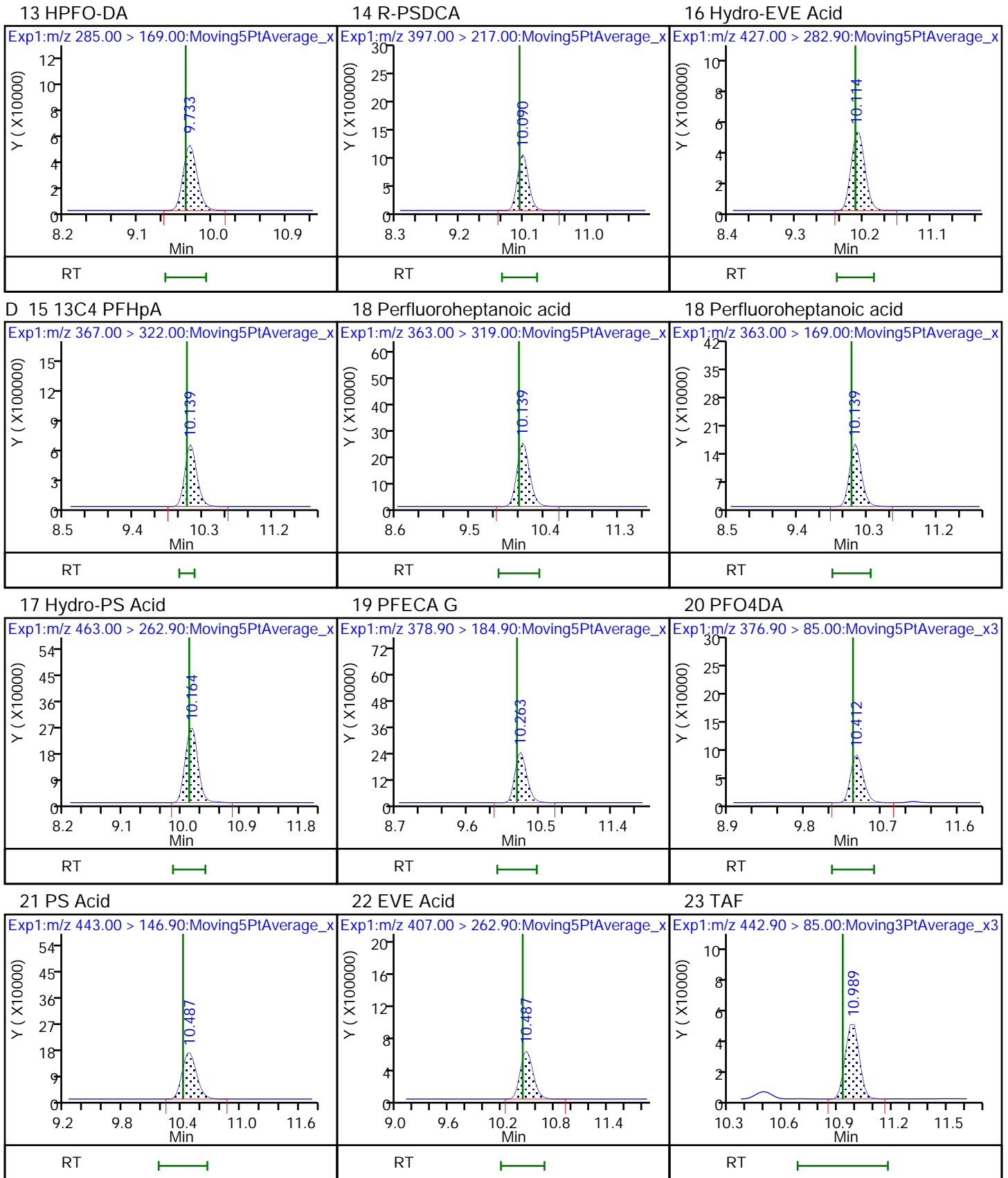


11 PFO3OA



D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

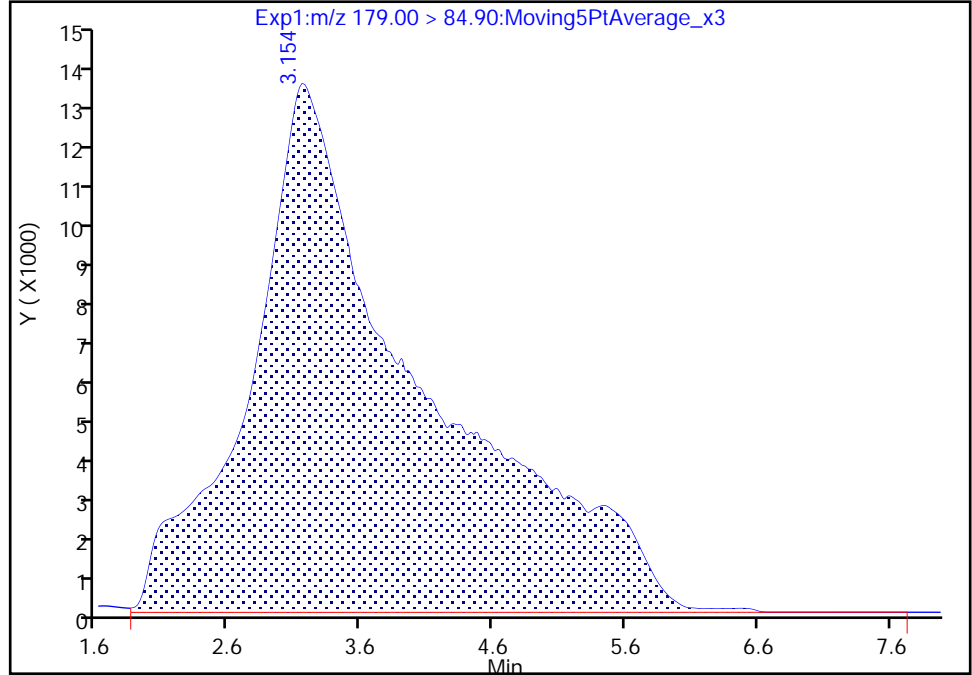
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Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

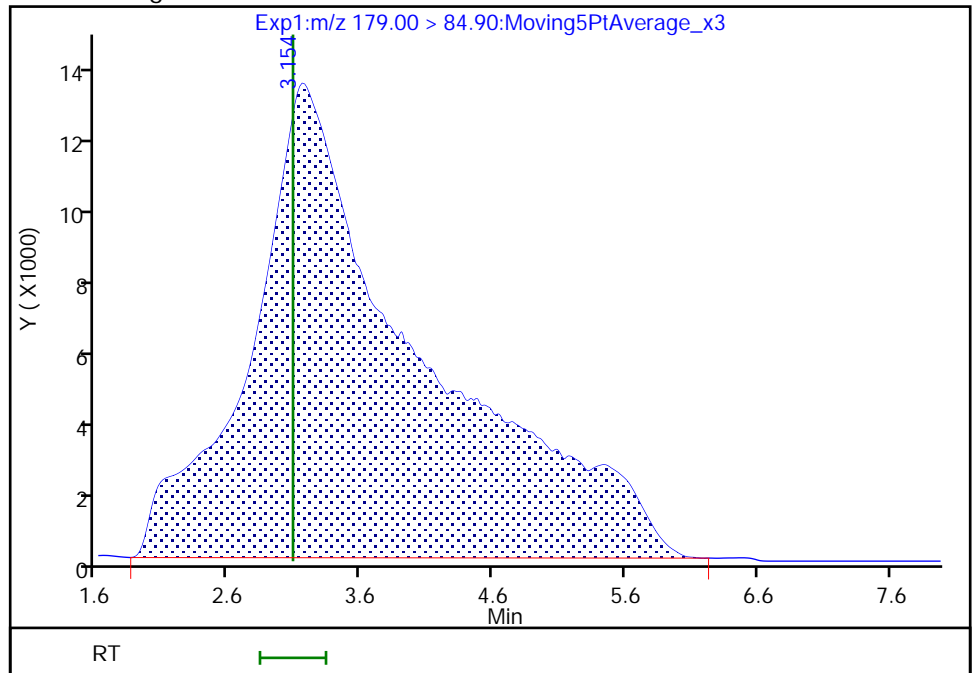
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Area: 1215339  
Amount: 0.086840  
Amount Units: ng/ml

Processing Integration Results



RT: 3.15  
Area: 1188772  
Amount: 0.084941  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:19:15  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

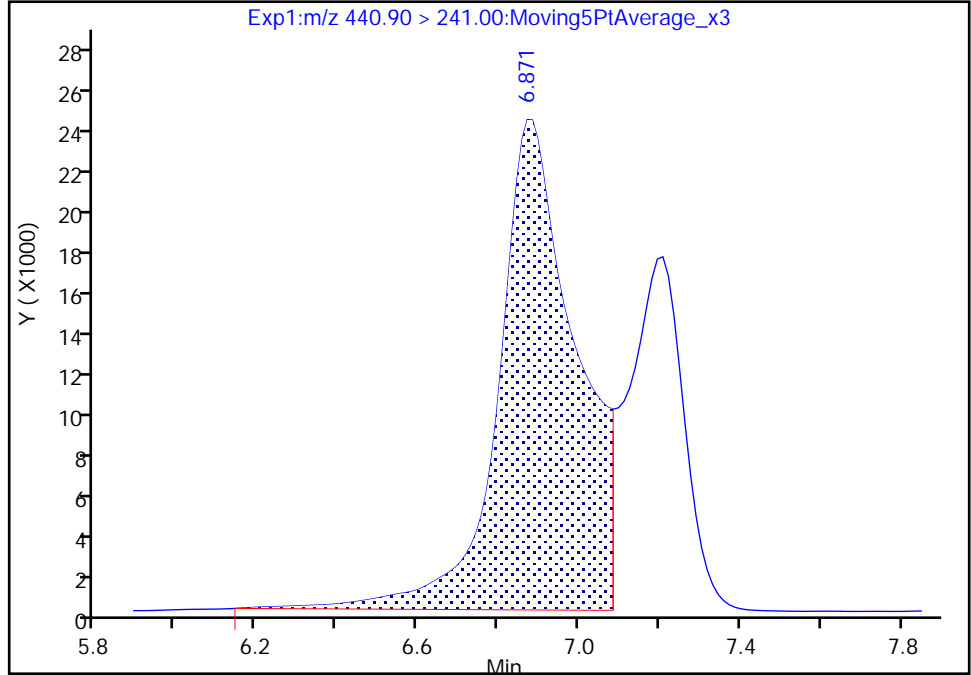
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Injection Date: 29-Jan-2021 16:07:38 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

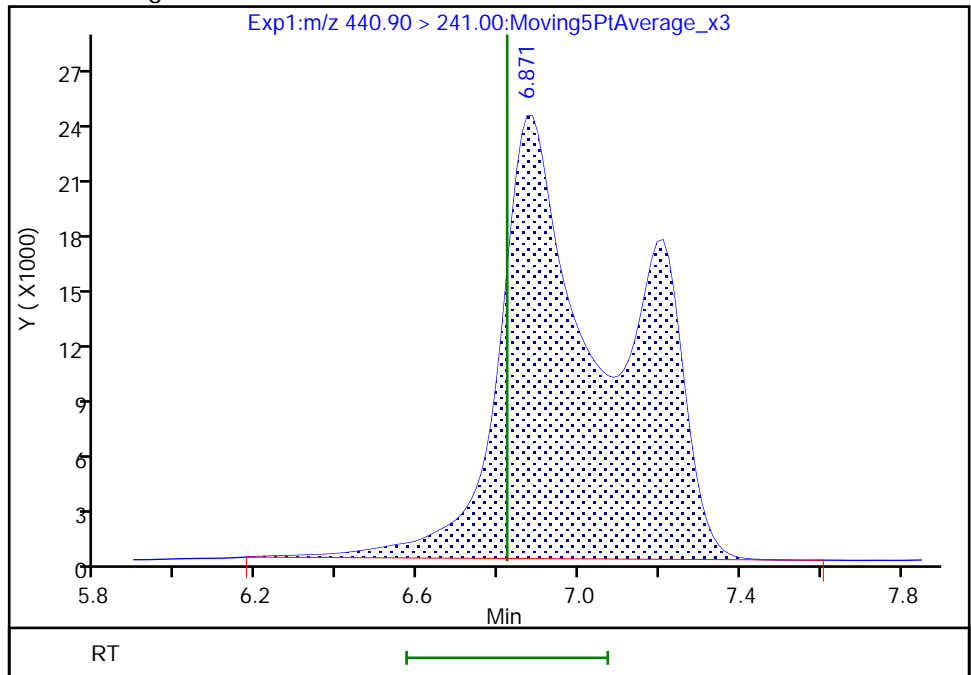
RT: 6.87  
Area: 316647  
Amount: 0.051666  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 475724  
Amount: 0.077622  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

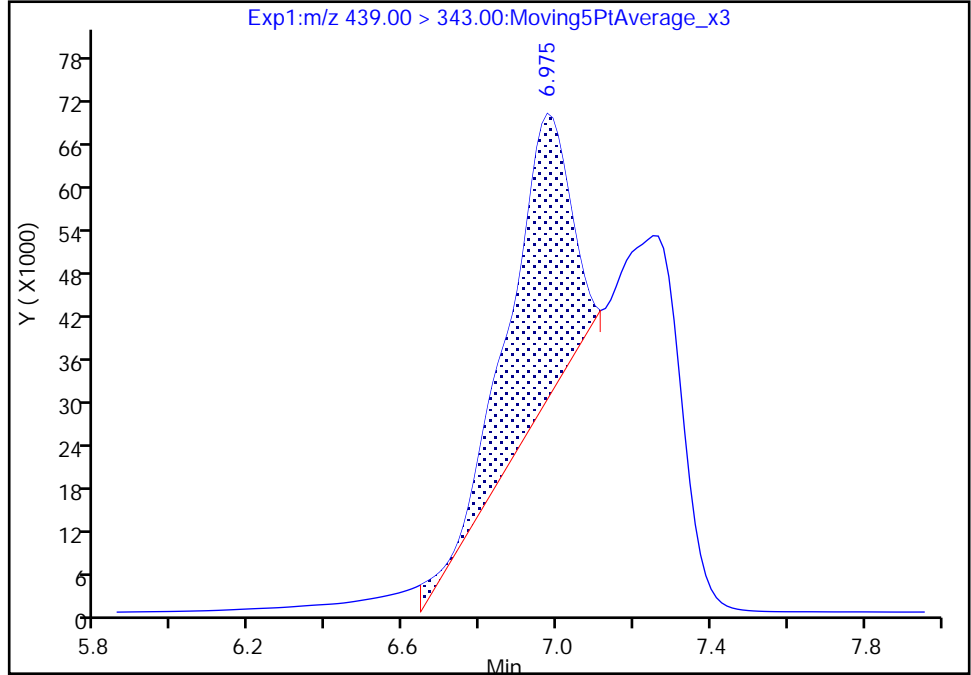
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Injection Date: 29-Jan-2021 16:07:38 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

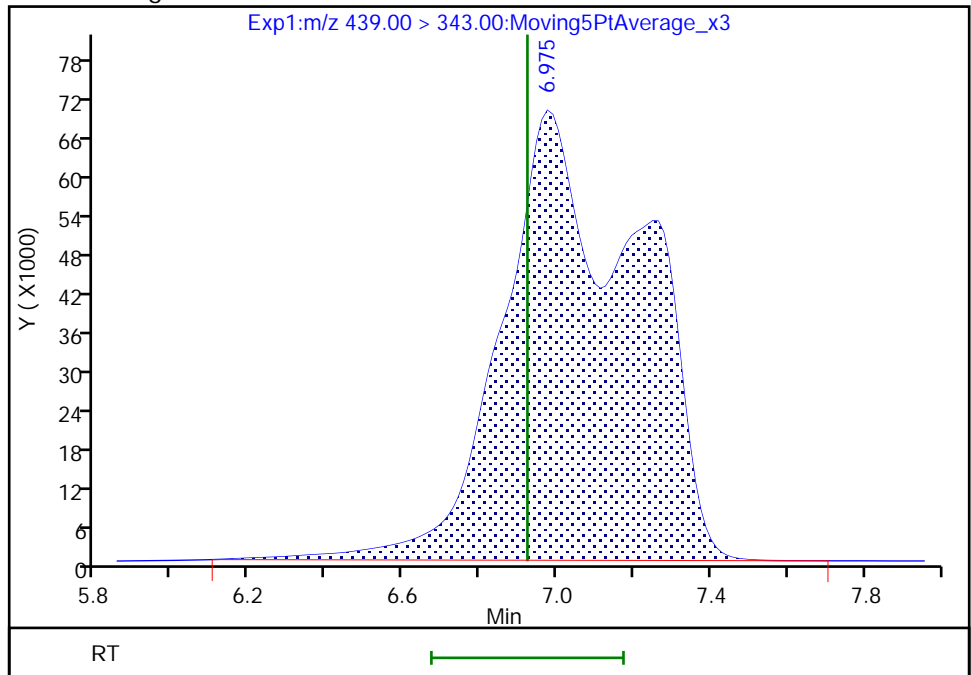
RT: 6.97  
Area: 434501  
Amount: 0.019672  
Amount Units: ng/ml

Processing Integration Results



RT: 6.97  
Area: 1730111  
Amount: 0.078331  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:19:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

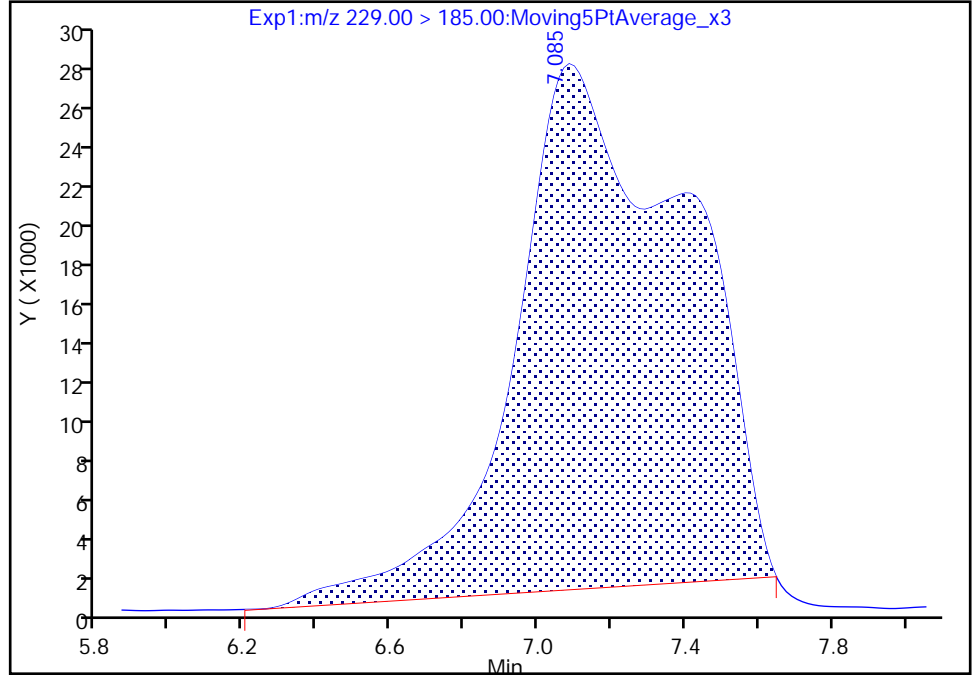
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Injection Date: 29-Jan-2021 16:07:38 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

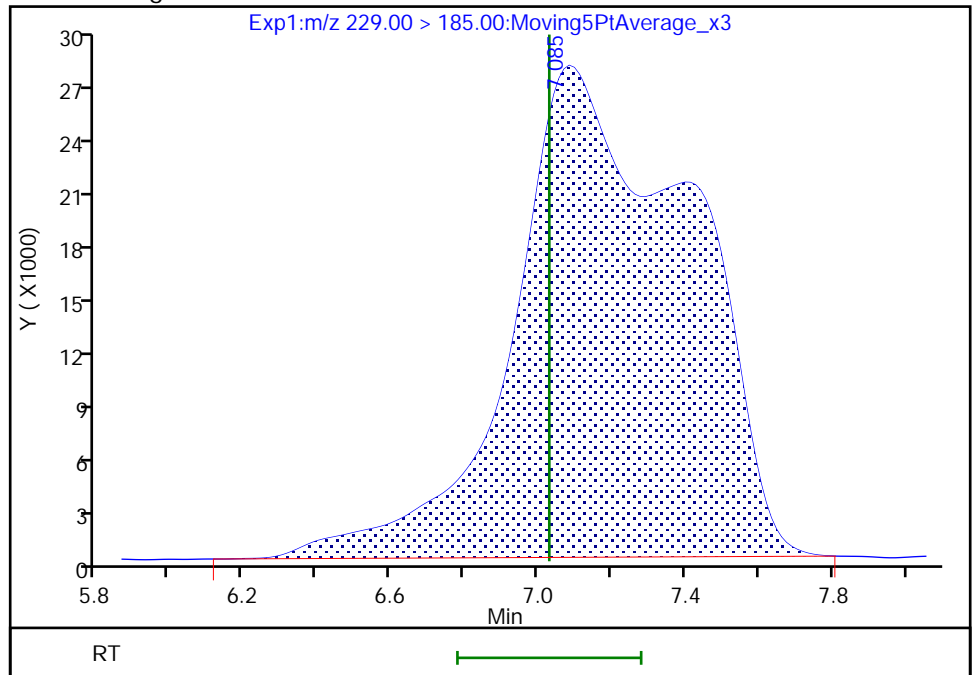
RT: 7.08  
Area: 865423  
Amount: 0.078432  
Amount Units: ng/ml

Processing Integration Results



RT: 7.08  
Area: 934099  
Amount: 0.084709  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:19:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

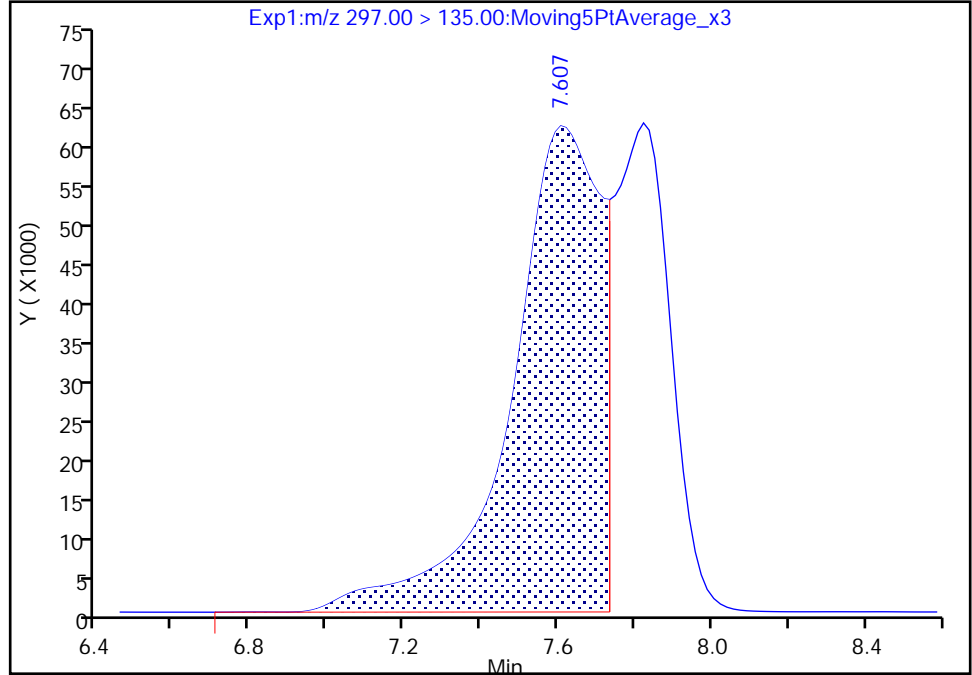
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Injection Date: 29-Jan-2021 16:07:38 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 7 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

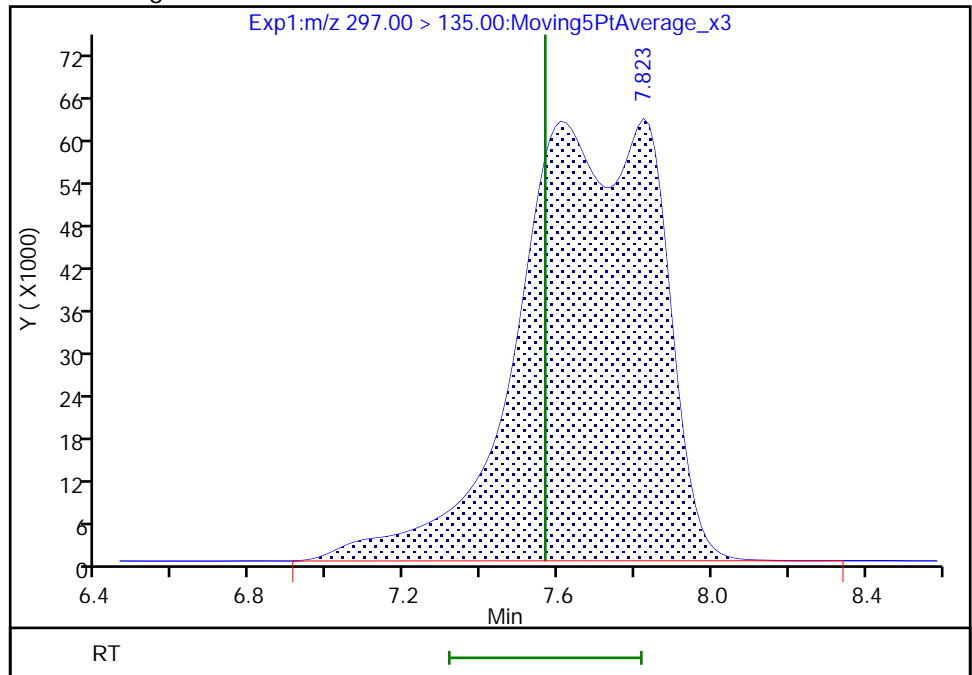
RT: 7.61  
Area: 1007859  
Amount: 0.057170  
Amount Units: ng/ml

Processing Integration Results



RT: 7.82  
Area: 1622921  
Amount: 0.092059  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:19:36  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-456828/14 Calibration Date: 01/29/2021 19:55  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.29\_TB3\_A\_020.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	11941550		85.3	100	-14.7	30.0
R-EVE	Ave	8229186	7791970		94.7	100	-5.3	50.0
R-PSDA	Ave	6128733	4113030		67.1	100	-32.9	50.0
Hydrolyzed PSDA	Ave	22087301	15733180		71.2	100	-28.8	50.0
PMPA	Lin2		9560490		86.7	100	-13.3	30.0
NVHOS	Ave	17629226	16309590		92.5	100	-7.5	30.0
PFO2HxA	Ave	13398274	12017620		89.7	100	-10.3	30.0
PEPA	Ave	7285690	7178170		98.5	100	-1.5	30.0
PES	Ave	85378317	84342500		98.8	100	-1.2	30.0
PFECA B	Ave	8635464	7788360		90.2	100	-9.8	30.0
PFO3OA	Ave	9863100	9649980		97.8	100	-2.2	30.0
HFPO-DA	AveID	1.143	1.153		101	100	0.9	40.0
R-PSDCA	Ave	114445857	114356360		99.9	100	-0.0	30.0
Hydro-EVE Acid	Ave	62655097	60617150		96.7	100	-3.3	30.0
Hydro-PS Acid	Ave	36563062	35410600		96.8	100	-3.2	30.0
Perfluoroheptanoic acid	L2ID		1.031		100	100	0.2	40.0
PFECA G	Ave	24344710	24794180		102	100	1.8	30.0
PFO4DA	Ave	8441365	7900130		93.6	100	-6.4	30.0
EVE Acid	Ave	63290460	61098930		96.5	100	-3.5	30.0
PS Acid	Ave	15944677	15654210		98.2	100	-1.8	30.0
PFO5DA	Ave	2465931	2267100		91.9	100	-8.1	50.0
13C3 HFPO-DA	Ave	6182315	5163704		209	250	-16.5	50.0
13C4 PFHpA	Ave	25948053	26858276		259	250	3.5	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_020.d  
 Lims ID: CCV 388  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 29-Jan-2021 19:55:57 ALS Bottle#: 20 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (388)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:04:07 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: kurilyaki

Date: 30-Jan-2021 09:21:25

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.136	3.084	0.052		1194155	0.0853		85.3	1425	M
2 R-EVE										
405.00 > 217.00	6.783	6.733	0.050		779197	0.0947		94.7	6694	
3 R-PSDA										M
440.90 > 241.00	6.859	6.822	0.037		411303	0.0671		67.1	6498	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.948	6.923	0.025		1573318	0.0712		71.2	21863	
5 PMPA										M
229.00 > 185.00	7.057	7.031	0.026		956049	0.0867		86.7	713	M
6 NVHOS										M
297.00 > 135.00	7.580	7.567	0.013		1630959	0.0925		92.5	10077	M
7 PFO2HxA										
245.00 > 85.00	8.229	8.197	0.032		1201762	0.0897		89.7	9165	
8 PEPA										
278.90 > 234.90	8.855	8.840	0.015		717817	0.0985		98.5	2943	
9 PES										
314.90 > 135.00	9.138	9.120	0.018		8434250	0.0988		98.8	135032	
10 PFECA B										
295.00 > 201.00	9.342	9.345	-0.003		778836	0.0902		90.2	23496	
11 PFO3OA										
310.90 > 85.00	9.595	9.598	-0.003		964998	0.0978		97.8	11576	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.705	9.681	0.024		1290926	0.2088		83.5	35958	
13 HPFO-DA										
285.00 > 169.00	9.705	9.681	0.024	1.000	595435	0.1009		101	16701	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.037	10.041	-0.004		11435636	0.0999		99.9	170615	
16 Hydro-EVE Acid										
427.00 > 282.90	10.090	10.092	-0.002		6061715	0.0967		96.7	95398	
D 15 13C4 PFHpA										
367.00 > 322.00	10.090	10.092	-0.002		6714569	0.2588		104	204737	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.114	10.092	0.022	1.002	2769304	0.1002	Target=0.00	100	63273	
363.00 > 169.00	10.090	10.092	-0.002	1.000	1691685		1.64(0.00-0.00)		51386	
17 Hydro-PS Acid										
463.00 > 262.90	10.114	10.117	-0.003		3541060	0.0968		96.8	87457	
19 PFECA G										
378.90 > 184.90	10.214	10.216	-0.002		2479418	0.1018		102	79187	
20 PFO4DA										
376.90 > 85.00	10.362	10.365	-0.003		790013	0.0936		93.6	9603	
21 PS Acid										
443.00 > 146.90	10.437	10.414	0.023		1565421	0.0982		98.2	51117	
22 EVE Acid										
407.00 > 262.90	10.437	10.439	-0.002		6109893	0.0965		96.5	149451	
23 TAF										
442.90 > 85.00	10.926	10.927	-0.001		226710	0.0919		91.9	989	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00388

Amount Added: 1.00

Units: mL



Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_020.d

Injection Date: 29-Jan-2021 19:55:57

Instrument ID: A7\_N

Lims ID: CCV 388

Client ID:

Operator ID: abservice

ALS Bottle#: 20

Worklist Smp#: 14

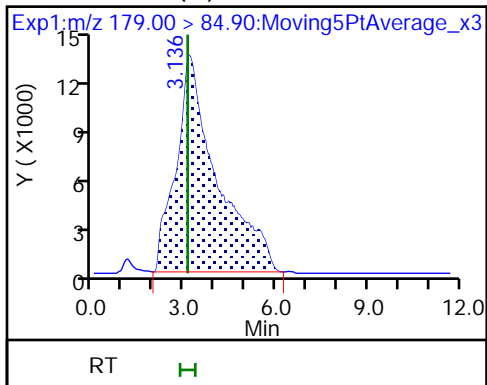
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

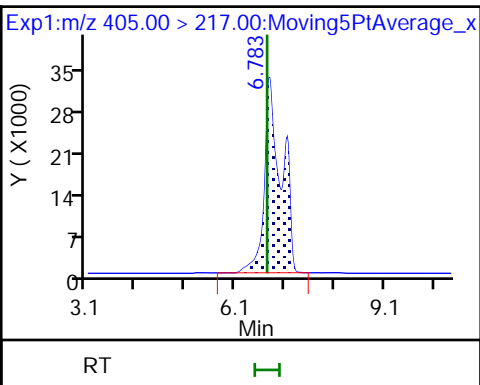
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

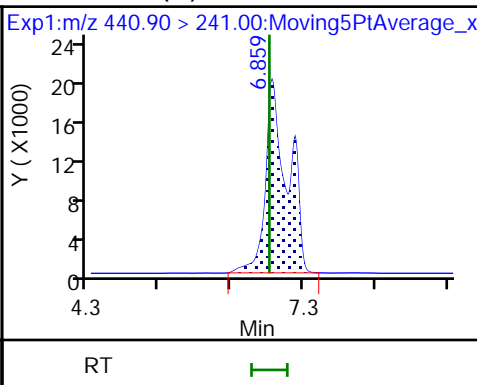
1 PFMOAA (M)



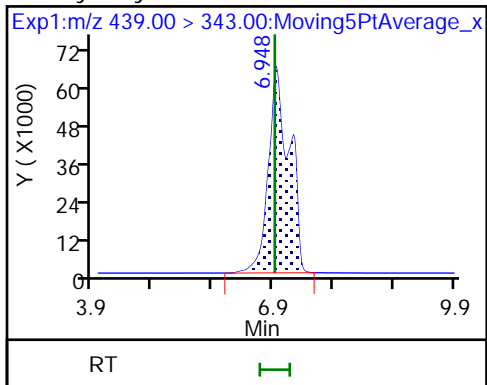
2 R-EVE



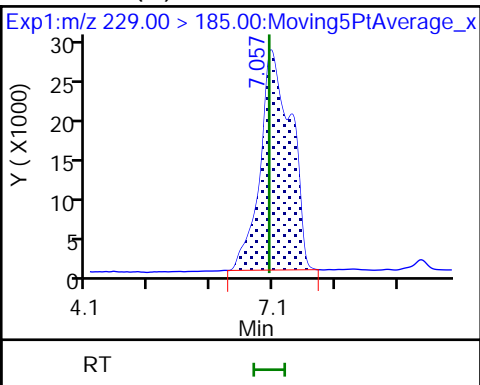
3 R-PSDA (M)



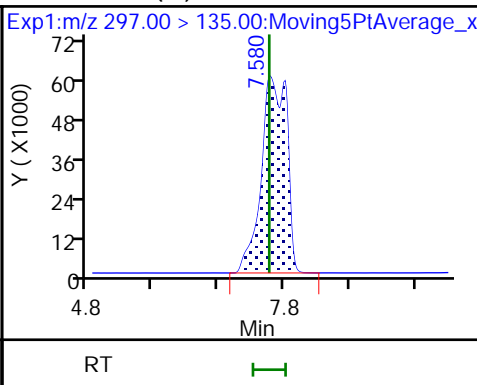
4 Hydrolyzed PSDA



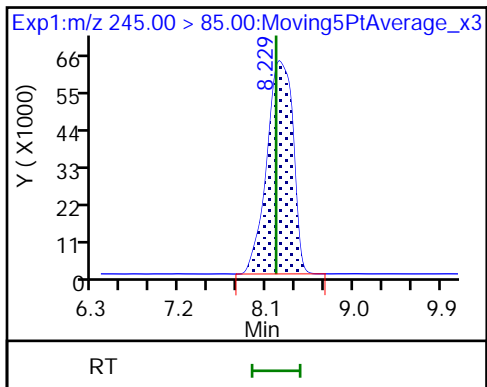
5 PMPA (M)



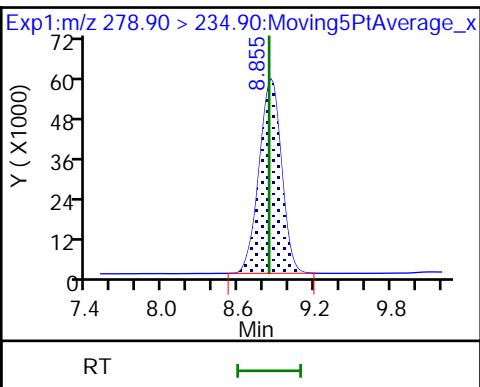
6 NVHOS (M)



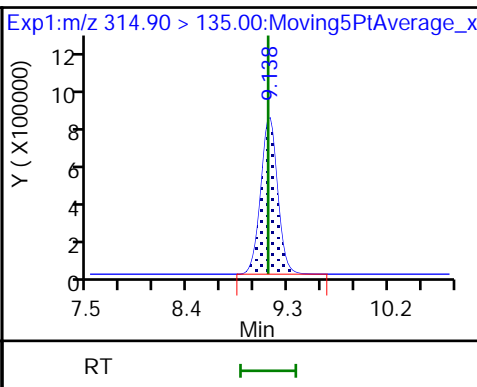
7 PFO2HxA



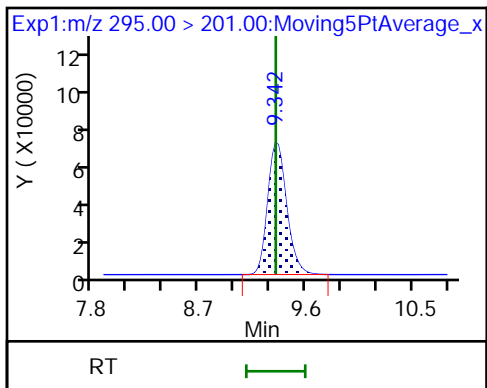
8 PEPA



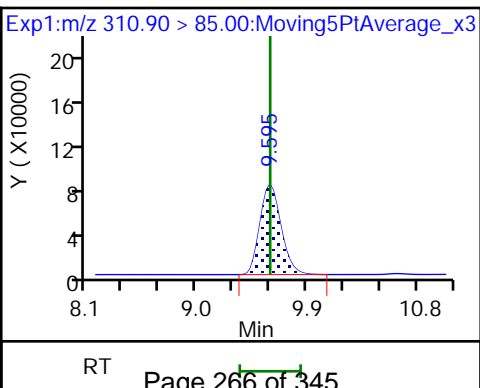
9 PES



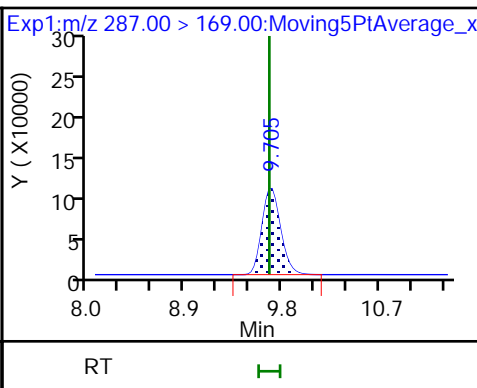
10 PFECA B

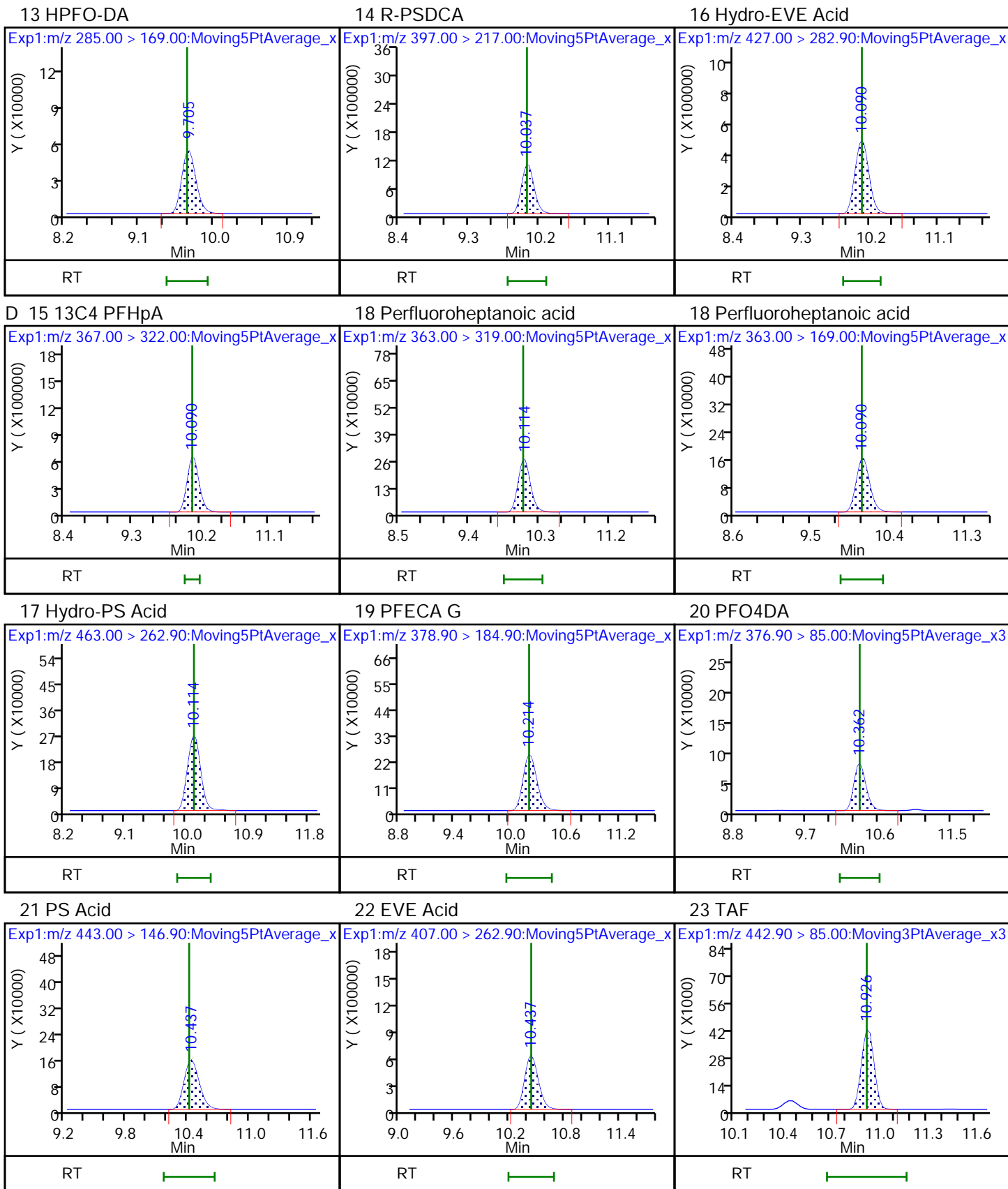


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

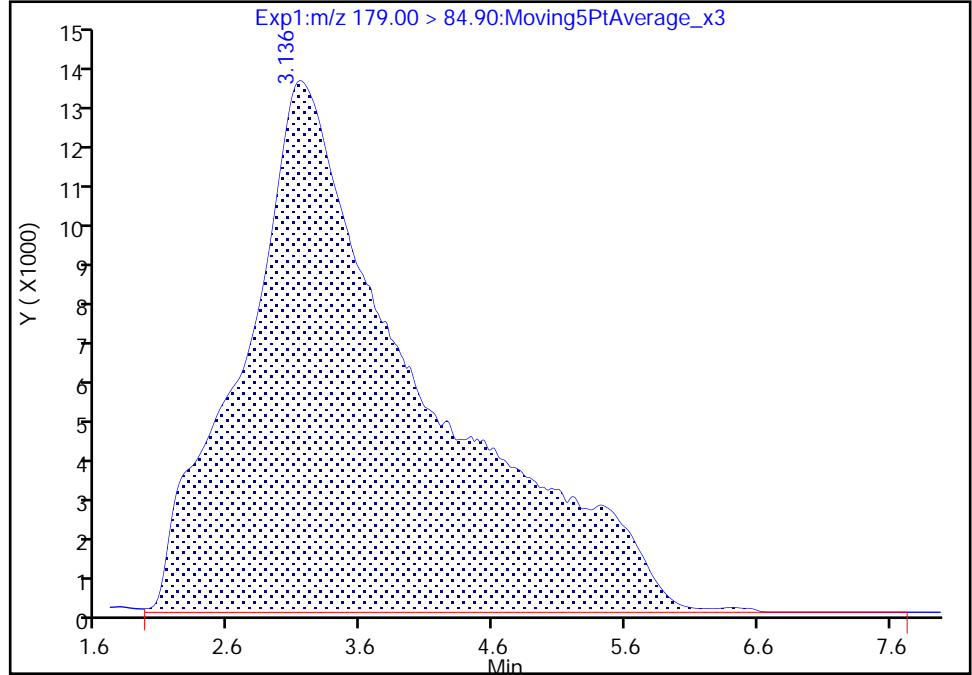
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Injection Date: 29-Jan-2021 19:55:57 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 20 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

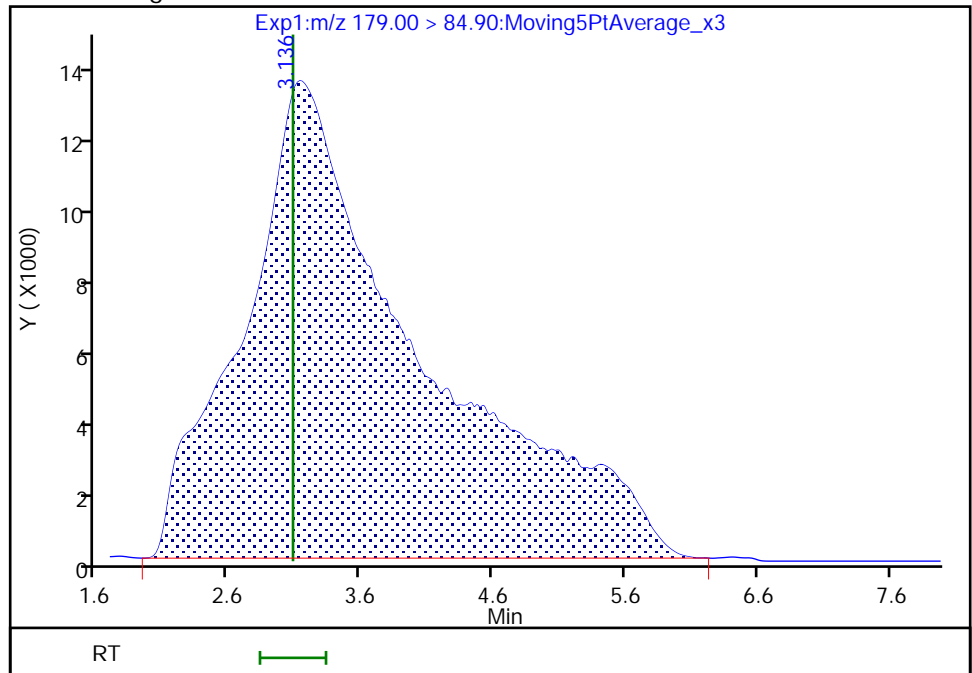
RT: 3.14  
Area: 1217454  
Amount: 0.086991  
Amount Units: ng/ml

Processing Integration Results



RT: 3.14  
Area: 1194155  
Amount: 0.085326  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:20:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

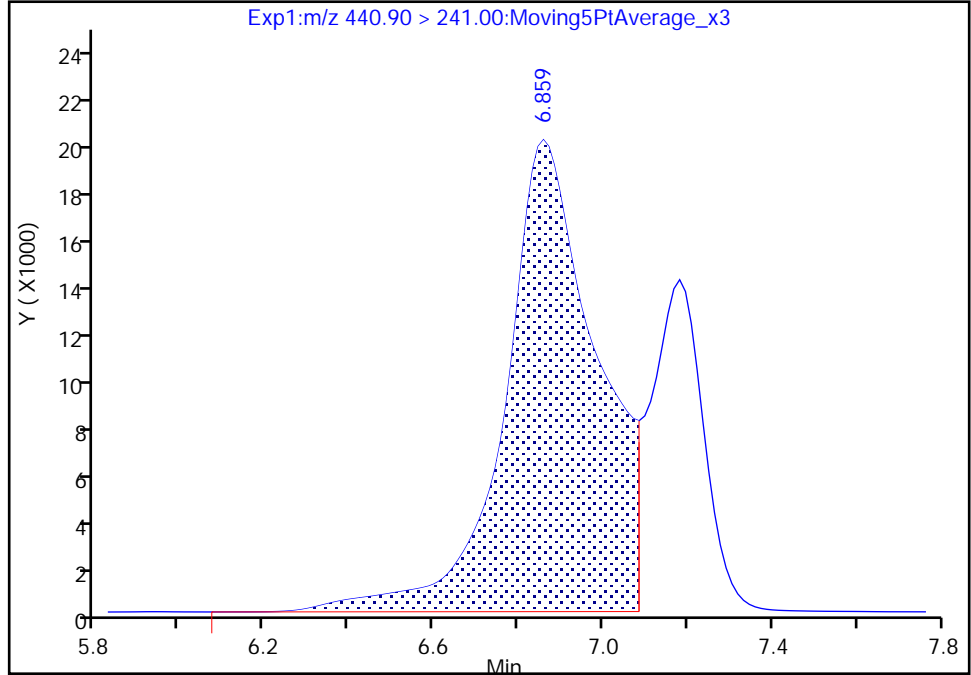
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_020.d  
Injection Date: 29-Jan-2021 19:55:57 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 20 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

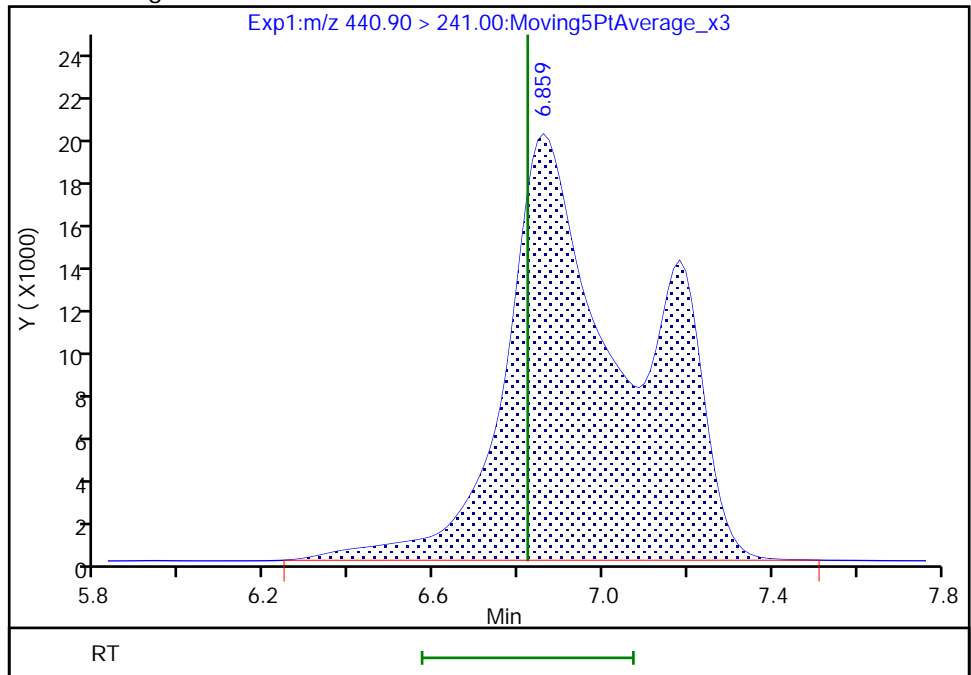
RT: 6.86  
Area: 295920  
Amount: 0.048284  
Amount Units: ng/ml

Processing Integration Results



RT: 6.86  
Area: 411303  
Amount: 0.067111  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:20:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

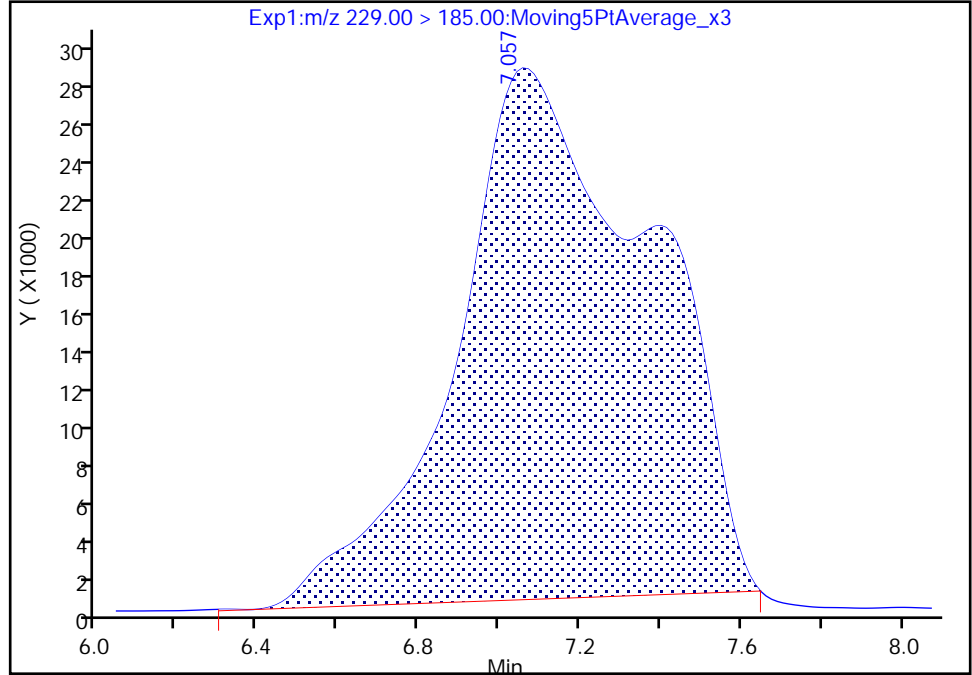
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Injection Date: 29-Jan-2021 19:55:57 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 20 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

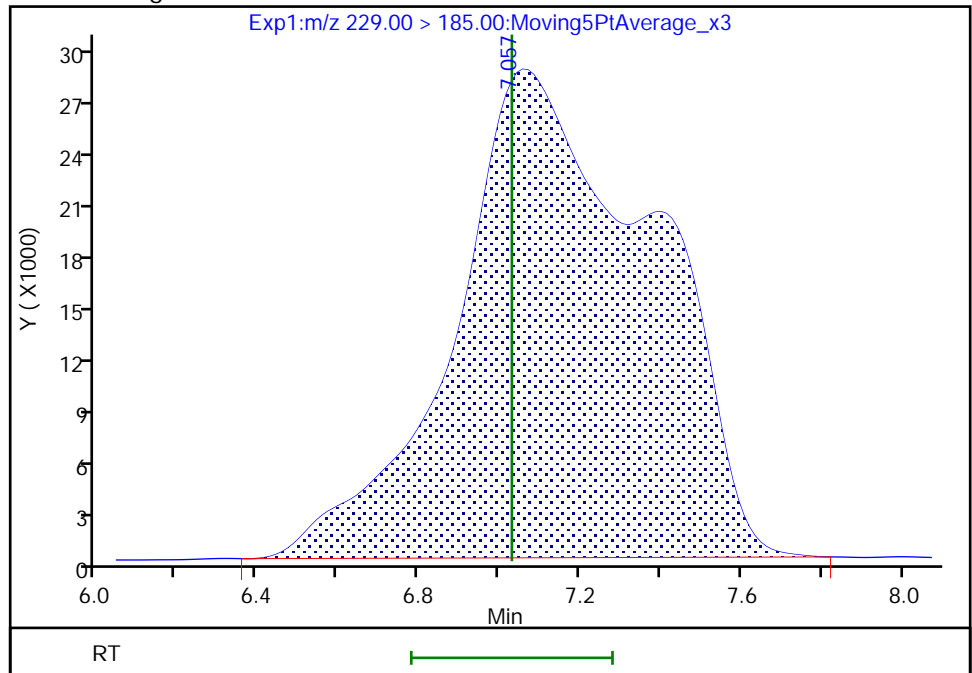
RT: 7.06  
Area: 921604  
Amount: 0.083567  
Amount Units: ng/ml

Processing Integration Results



RT: 7.06  
Area: 956049  
Amount: 0.086715  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:21:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 271 of 345

Eurofins TestAmerica, Sacramento

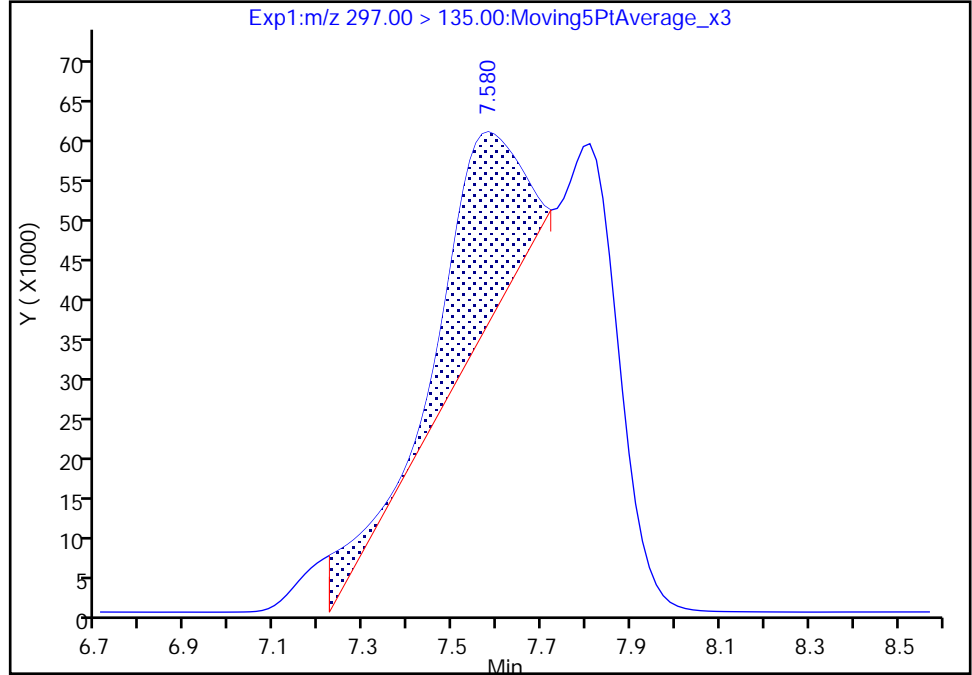
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_020.d  
Injection Date: 29-Jan-2021 19:55:57 Instrument ID: A7\_N  
Lims ID: CCV 388  
Client ID:  
Operator ID: abservice ALS Bottle#: 20 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

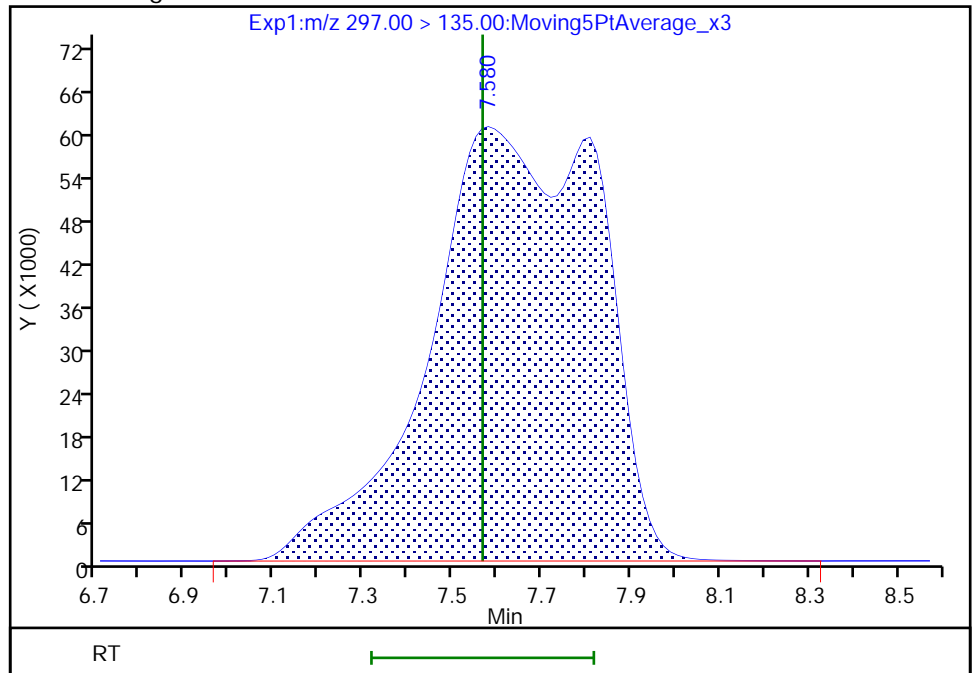
RT: 7.58  
Area: 285457  
Amount: 0.016192  
Amount Units: ng/ml

Processing Integration Results



RT: 7.58  
Area: 1630959  
Amount: 0.092514  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:21:15  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-456828/27 Calibration Date: 01/29/2021 23:44  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.29\_TB3\_A\_033.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	11481020		82.0	100	-18.0	30.0
R-EVE	Ave	8229186	7517980		91.4	100	-8.6	50.0
R-PSDA	Ave	6128733	4079990		66.6	100	-33.4	50.0
Hydrolyzed PSDA	Ave	22087301	16203210		73.4	100	-26.6	50.0
PMPA	Lin2		9589770		87.0	100	-13.0	30.0
NVHOS	Ave	17629226	16236060		92.1	100	-7.9	30.0
PFO2HxA	Ave	13398274	12216370		91.2	100	-8.8	30.0
PEPA	Ave	7285690	7239340		99.4	100	-0.6	30.0
PES	Ave	85378317	86966060		102	100	1.9	30.0
PFECA B	Ave	8635464	8359810		96.8	100	-3.2	30.0
PFO3OA	Ave	9863100	9931660		101	100	0.7	30.0
HFPO-DA	AveID	1.143	1.180		103	100	3.2	40.0
R-PSDCA	Ave	114445857	110874540		96.9	100	-3.1	30.0
Hydro-EVE Acid	Ave	62655097	62825080		100	100	0.3	30.0
Perfluoroheptanoic acid	L2ID		1.006		97.8	100	-2.2	40.0
Hydro-PS Acid	Ave	36563062	36073520		98.7	100	-1.3	30.0
PFECA G	Ave	24344710	24081590		98.9	100	-1.1	30.0
PFO4DA	Ave	8441365	9368430		111	100	11.0	30.0
EVE Acid	Ave	63290460	59103610		93.4	100	-6.6	30.0
PS Acid	Ave	15944677	15878380		99.6	100	-0.4	30.0
PFO5DA	Ave	2465931	1904490		77.2	100	-22.8	50.0
13C3 HFPO-DA	Ave	6182315	4841776		196	250	-21.7	50.0
13C4 PFHpA	Ave	25948053	25667828		247	250	-1.1	50.0



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_033.d  
 Lims ID: CCV 389  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 29-Jan-2021 23:44:23 ALS Bottle#: 33 Worklist Smp#: 27  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (389)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:04:33 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647  
 First Level Reviewer: kurilyaki Date: 30-Jan-2021 09:23:06  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.084	3.084	0.0		1148102	0.0820		82.0	1535	M
2 R-EVE										M
405.00 > 217.00	6.751	6.733	0.018		751798	0.0914		91.4	7392	M
3 R-PSDA										M
440.90 > 241.00	6.840	6.822	0.018		407999	0.0666		66.6	6301	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.929	6.923	0.006		1620321	0.0734		73.4	13364	M
5 PMPA										M
229.00 > 185.00	7.010	7.031	-0.021		958977	0.0870		87.0	916	M
6 NVHOS										
297.00 > 135.00	7.546	7.567	-0.021		1623606	0.0921		92.1	13303	
7 PFO2HxA										
245.00 > 85.00	8.187	8.197	-0.010		1221637	0.0912		91.2	9730	
8 PEPA										
278.90 > 234.90	8.833	8.840	-0.007		723934	0.0994		99.4	3692	
9 PES										
314.90 > 135.00	9.114	9.120	-0.006		8696606	0.1019		102	149458	
10 PFECA B										
295.00 > 201.00	9.337	9.345	-0.008		835981	0.0968		96.8	26563	
11 PFO3OA										
310.90 > 85.00	9.563	9.598	-0.035		993166	0.1007		101	11954	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.673	9.681	-0.008		1210444	0.1958		78.3	34536	
13 HPFO-DA										
285.00 > 169.00	9.673	9.681	-0.008	1.000	571242	0.1032		103	16297	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.033	10.041	-0.008		11087454	0.0969		96.9	165781	
16 Hydro-EVE Acid										
427.00 > 282.90	10.059	10.092	-0.033		6282508	0.1003		100	97048	
D 15 13C4 PFHpA										
367.00 > 322.00	10.085	10.092	-0.007		6416957	0.2473		98.9	194829	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.085	10.092	-0.007	1.000	2583170	0.0978	Target=0.00	97.8	58859	
363.00 > 169.00	10.085	10.092	-0.007	1.000	1635543		1.58(0.00-0.00)		49719	
17 Hydro-PS Acid										
463.00 > 262.90	10.111	10.117	-0.006		3607352	0.0987		98.7	88419	
19 PFECA G										
378.90 > 184.90	10.213	10.216	-0.003		2408159	0.0989		98.9	75694	
20 PFO4DA										
376.90 > 85.00	10.362	10.365	-0.003		936843	0.1110		111	11302	
21 PS Acid										
443.00 > 146.90	10.412	10.414	-0.002		1587838	0.0996		99.6	51612	
22 EVE Acid										
407.00 > 262.90	10.412	10.439	-0.027		5910361	0.0934		93.4	143047	
23 TAF										
442.90 > 85.00	10.923	10.927	-0.004		190449	0.0772		77.2	725	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00389

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_033.d

Injection Date: 29-Jan-2021 23:44:23

Instrument ID: A7\_N

Lims ID: CCV 389

Client ID:

Operator ID: abservice

ALS Bottle#: 33

Worklist Smp#: 27

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

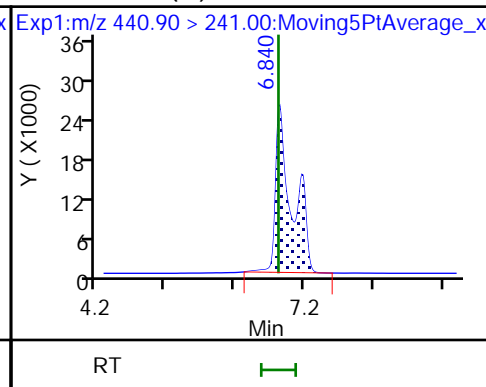
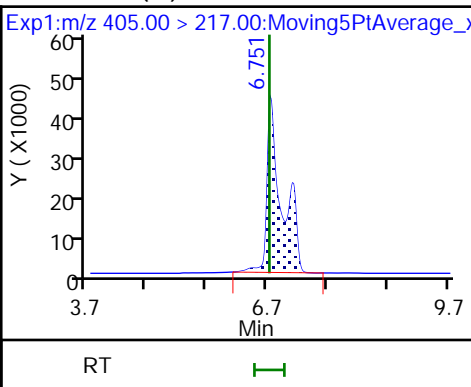
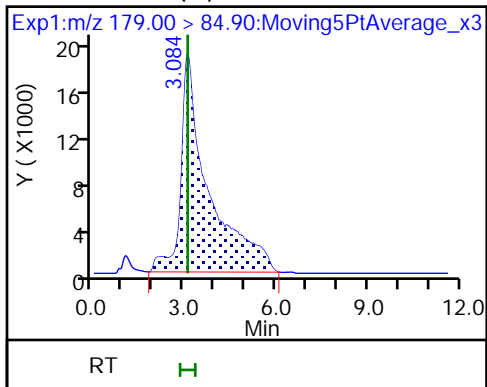
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

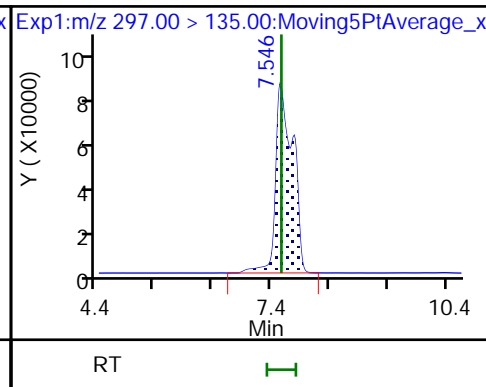
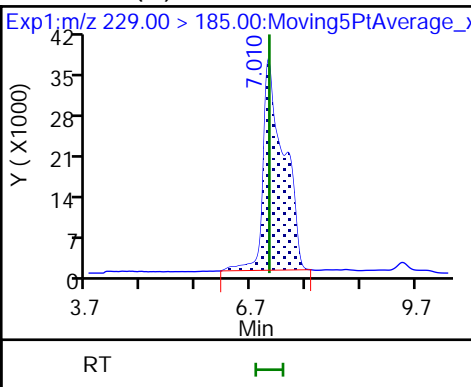
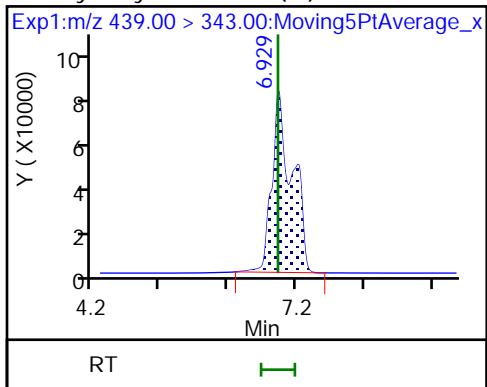
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

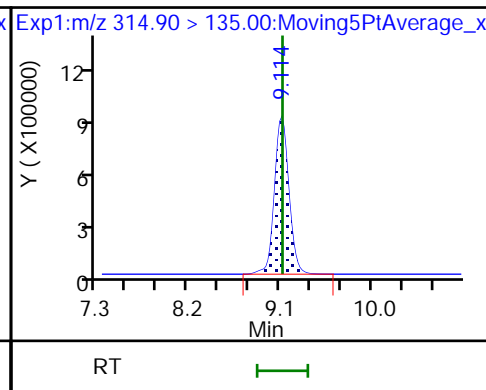
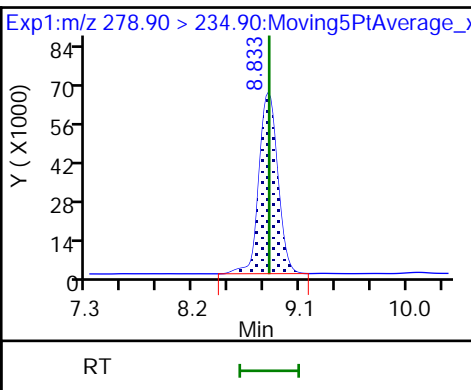
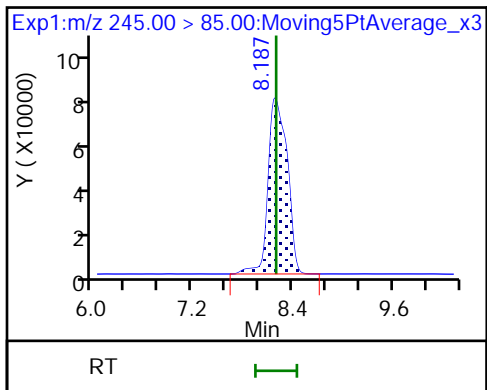
6 NVHOS



7 PFO2HxA

8 PEPA

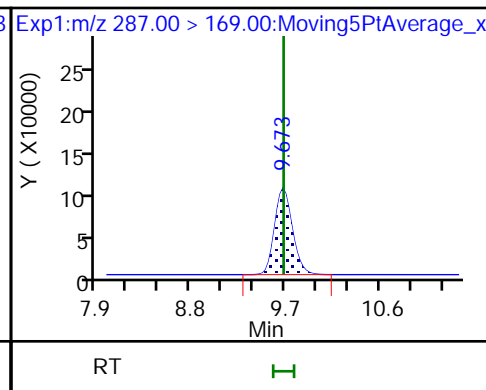
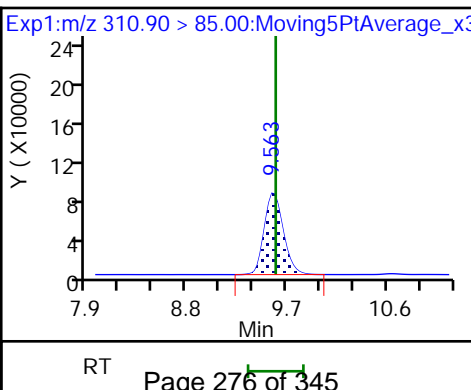
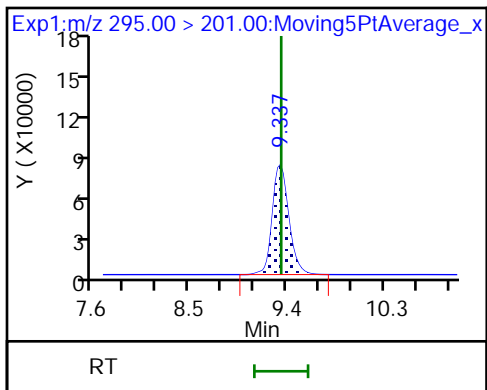
9 PES

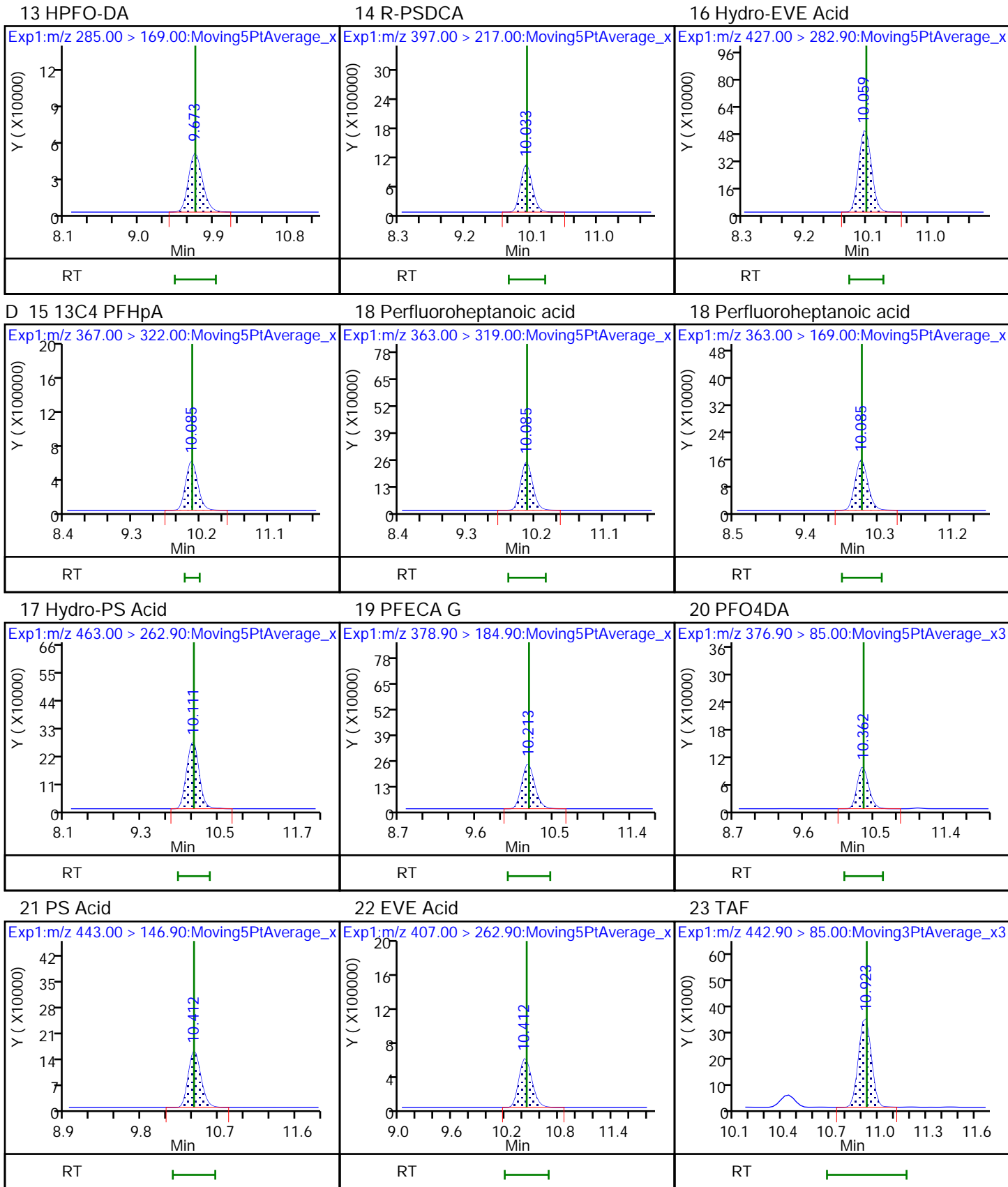


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

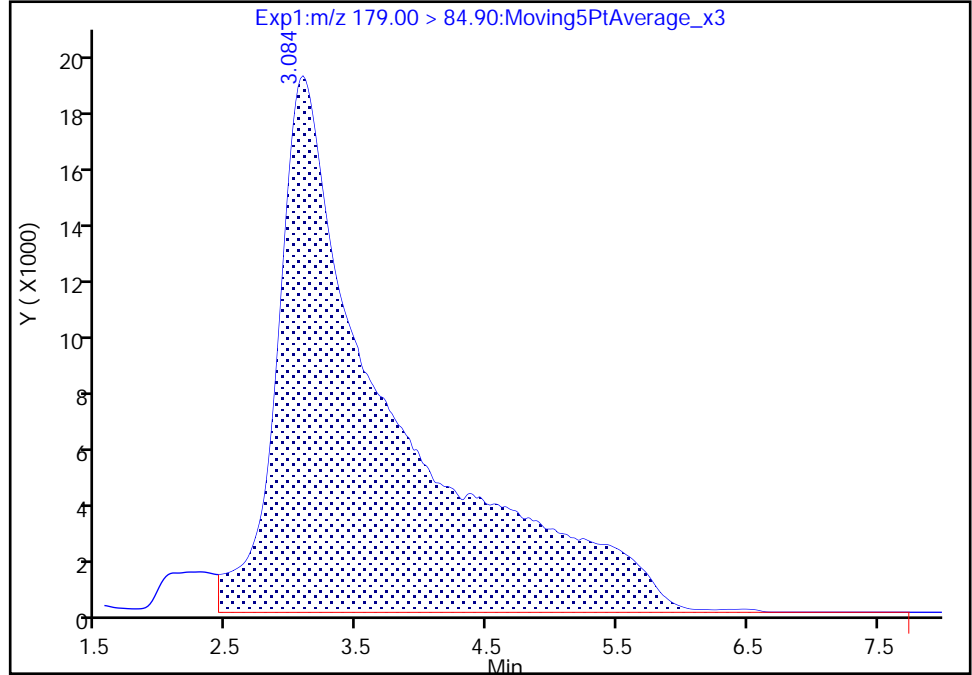
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Injection Date: 29-Jan-2021 23:44:23 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 33 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

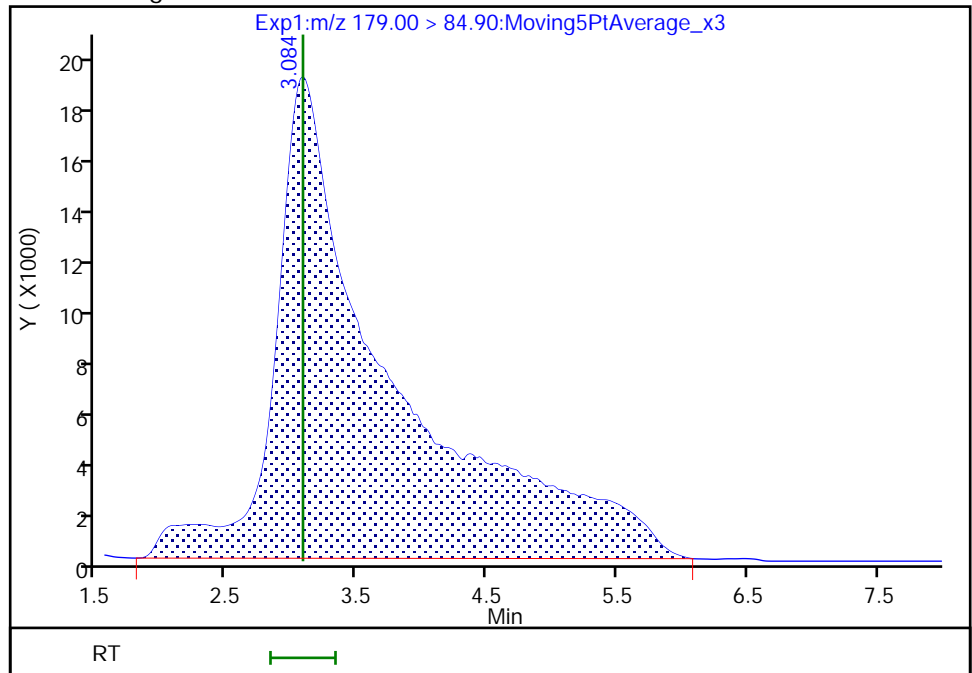
RT: 3.08  
Area: 1138906  
Amount: 0.081378  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 1148102  
Amount: 0.082035  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:22:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

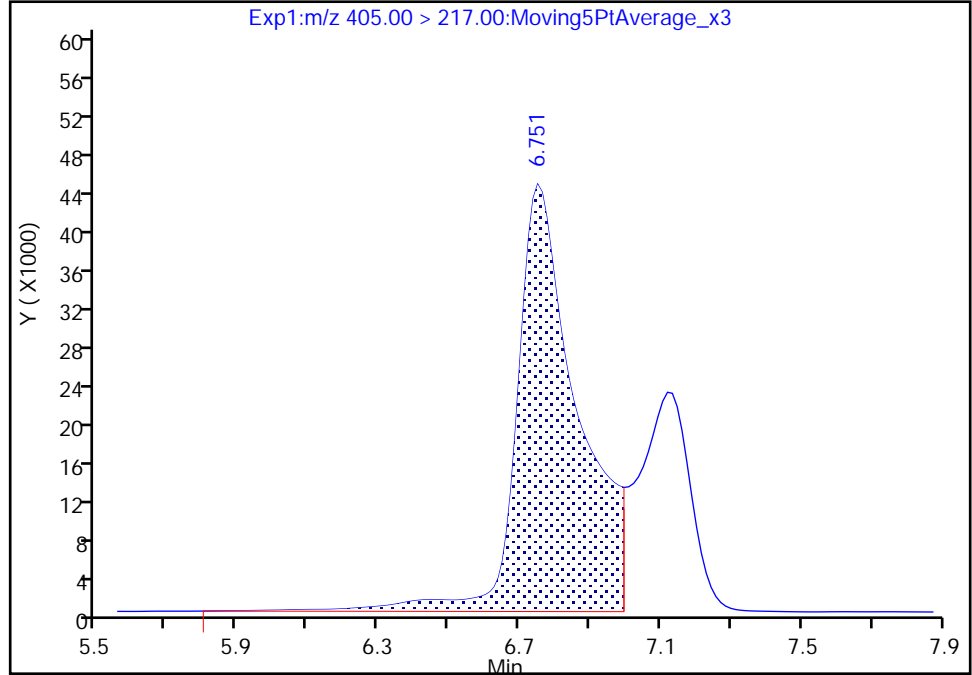
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Injection Date: 29-Jan-2021 23:44:23 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 33 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

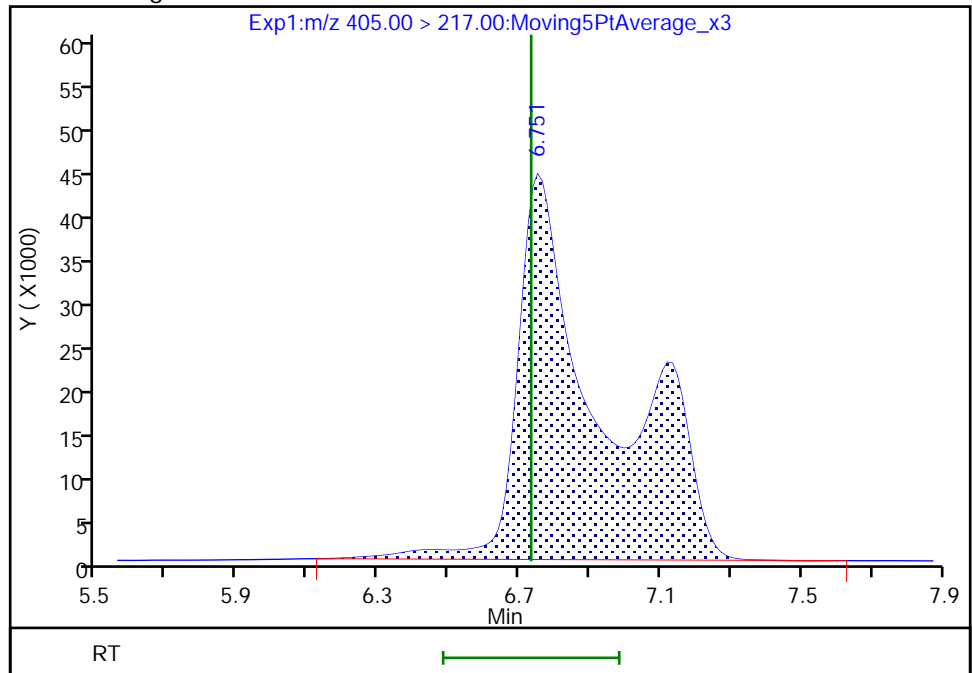
RT: 6.75  
Area: 532593  
Amount: 0.064720  
Amount Units: ng/ml

Processing Integration Results



RT: 6.75  
Area: 751798  
Amount: 0.091358  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:22:34  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

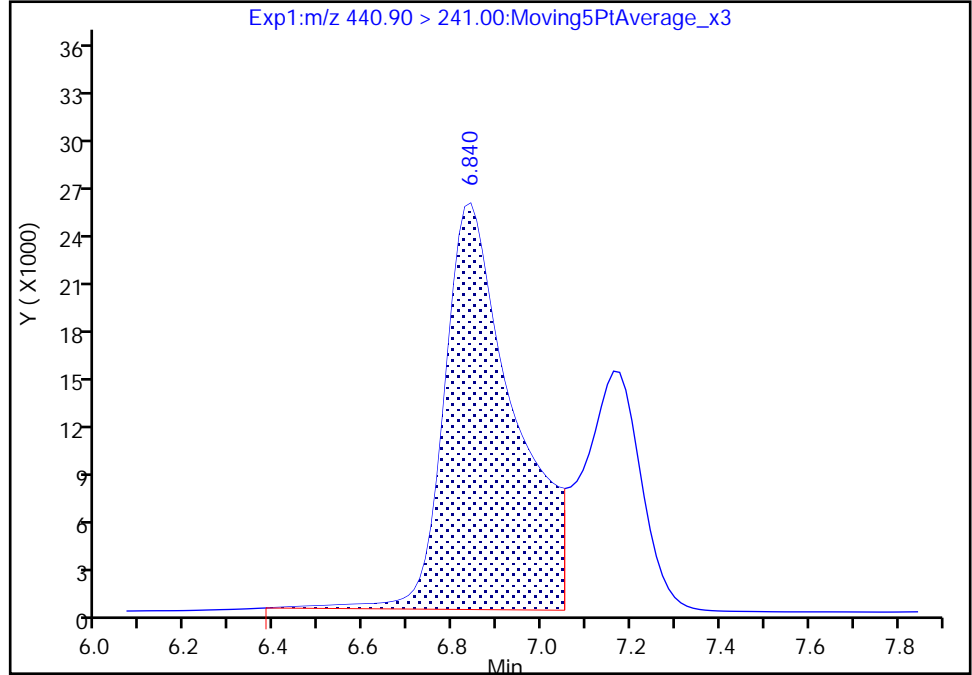
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Injection Date: 29-Jan-2021 23:44:23 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 33 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

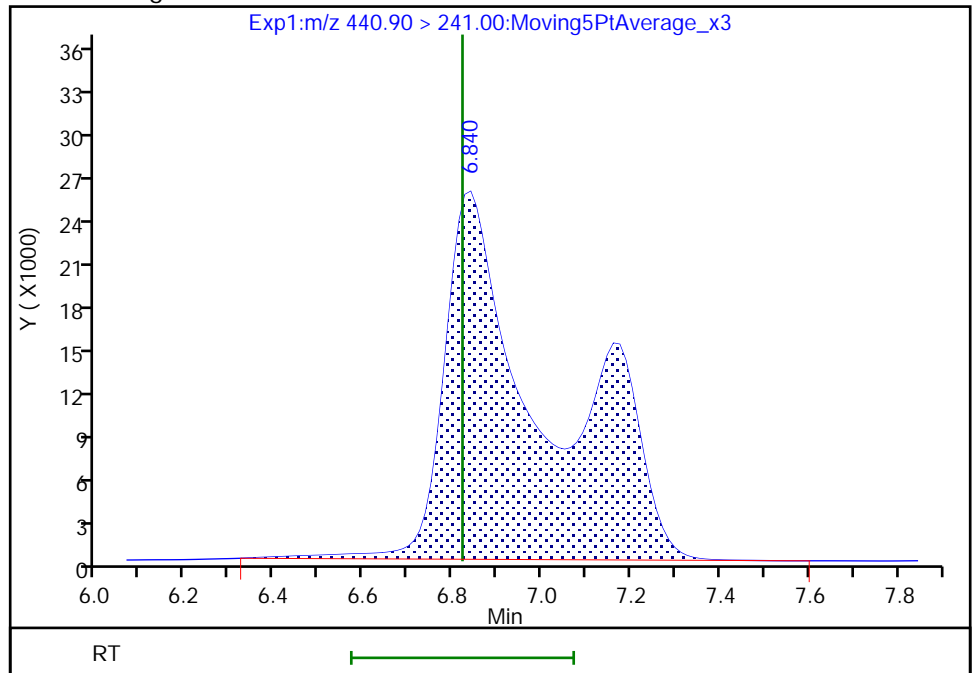
RT: 6.84  
Area: 272621  
Amount: 0.044482  
Amount Units: ng/ml

Processing Integration Results



RT: 6.84  
Area: 407999  
Amount: 0.066572  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:22:38  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

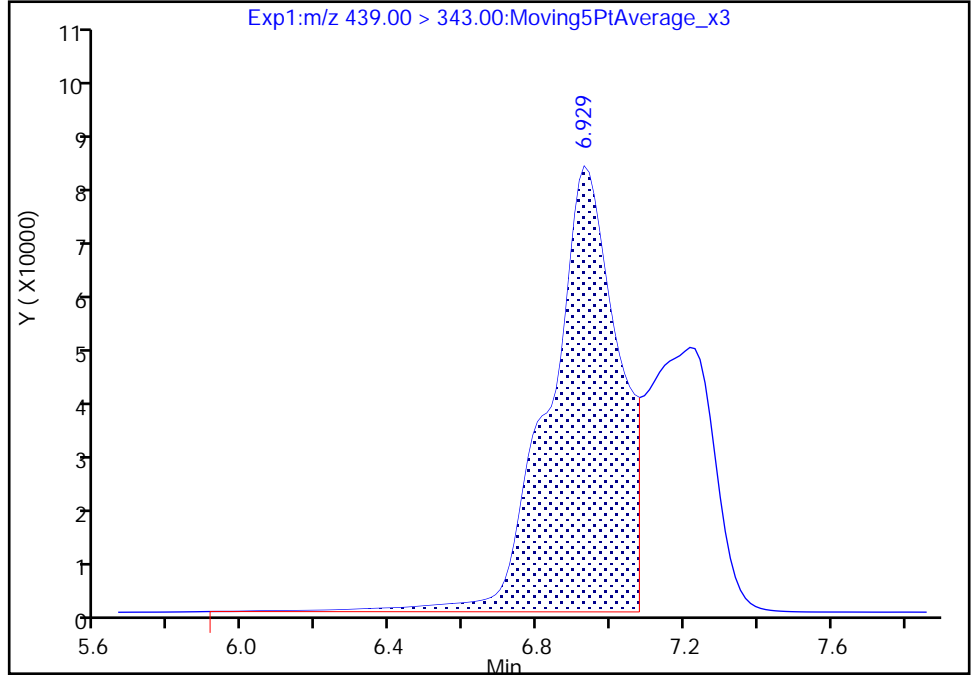
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_033.d  
Injection Date: 29-Jan-2021 23:44:23 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 33 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

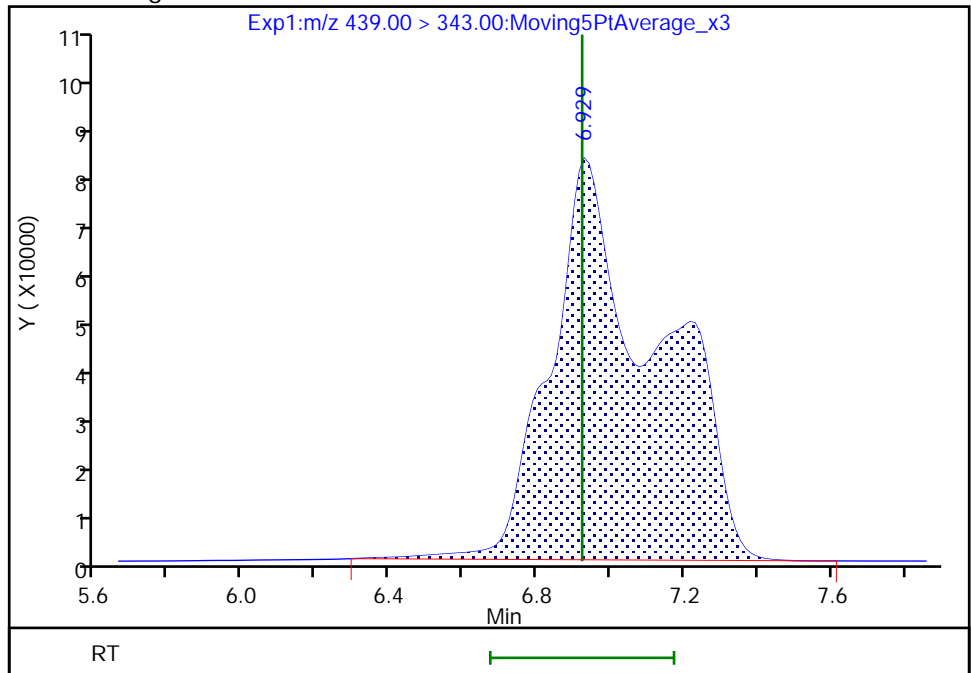
RT: 6.93  
Area: 1045932  
Amount: 0.047354  
Amount Units: ng/ml

Processing Integration Results



RT: 6.93  
Area: 1620321  
Amount: 0.073360  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

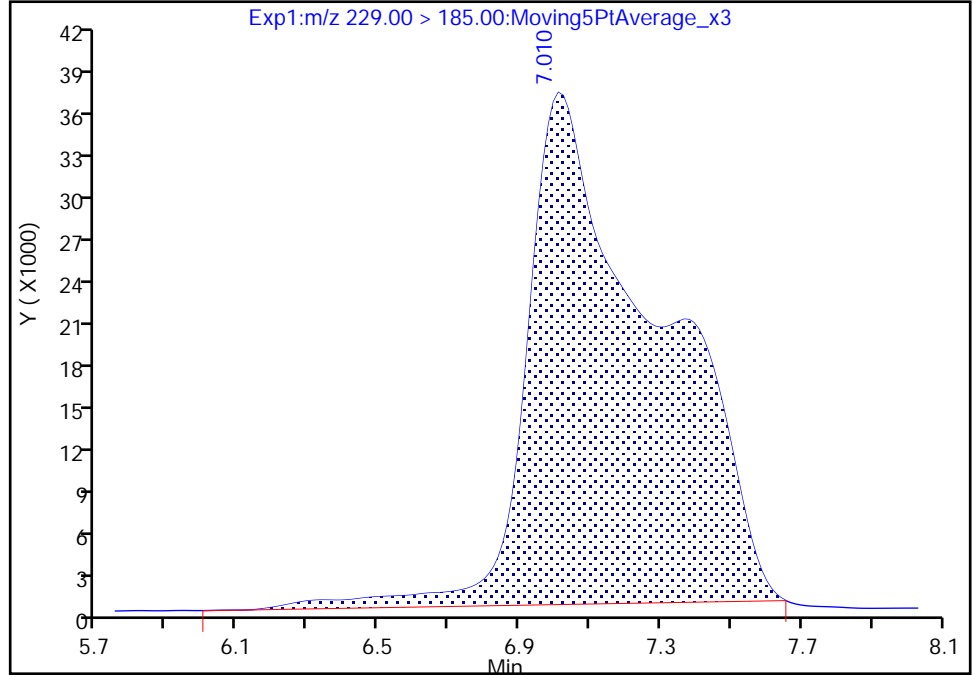
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Injection Date: 29-Jan-2021 23:44:23 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 33 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

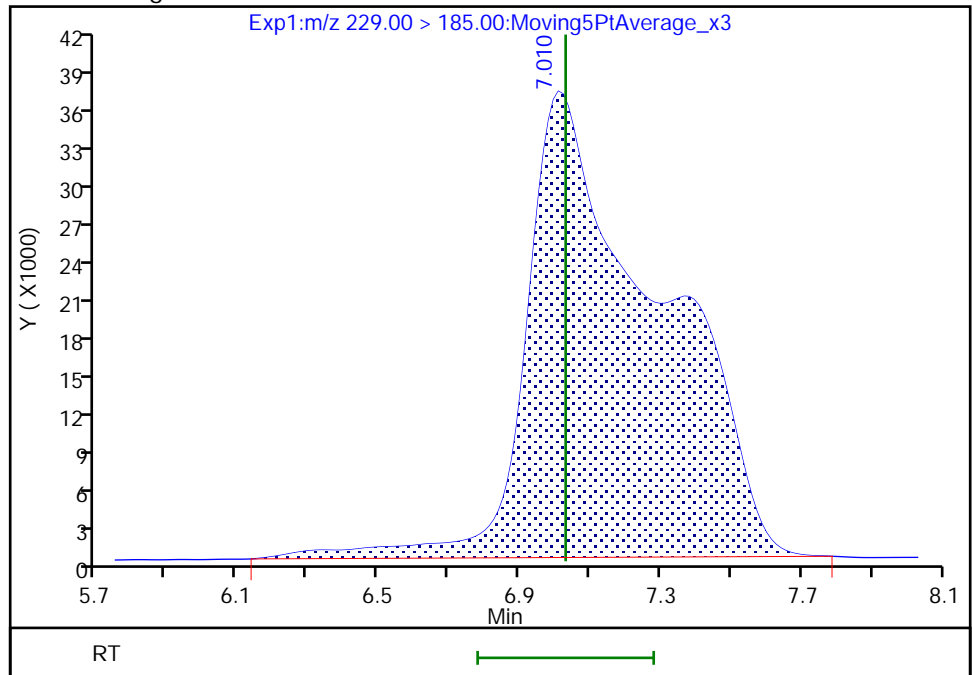
RT: 7.01  
Area: 937426  
Amount: 0.085013  
Amount Units: ng/ml

Processing Integration Results



RT: 7.01  
Area: 958977  
Amount: 0.086983  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-456828/32 Calibration Date: 01/30/2021 01:12  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.29\_TB3\_A\_038.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	11430890		81.7	100	-18.3	30.0
PMPA	Lin2		9095600		82.5	100	-17.5	30.0
R-EVE	Ave	8229186	6978790		84.8	100	-15.2	50.0
R-PSDA	Ave	6128733	3622350		59.1	100	-40.9	50.0
Hydrolyzed PSDA	Ave	22087301	14409470		65.2	100	-34.8	50.0
NVHOS	Ave	17629226	15740050		89.3	100	-10.7	30.0
PFO2HxA	Ave	13398274	11818300		88.2	100	-11.8	30.0
PEPA	Ave	7285690	7044900		96.7	100	-3.3	30.0
PES	Ave	85378317	84410290		98.9	100	-1.1	30.0
PFECA B	Ave	8635464	8112530		93.9	100	-6.1	30.0
PFO3OA	Ave	9863100	9119490		92.5	100	-7.5	30.0
HFPO-DA	AveID	1.143	1.140		99.7	100	-0.3	40.0
R-PSDCA	Ave	114445857	109553430		95.7	100	-4.3	30.0
Hydro-EVE Acid	Ave	62655097	58188850		92.9	100	-7.1	30.0
Perfluoroheptanoic acid	L2ID		1.041		101	100	1.2	40.0
Hydro-PS Acid	Ave	36563062	36661440		100	100	0.3	30.0
PFECA G	Ave	24344710	23224530		95.4	100	-4.6	30.0
PFO4DA	Ave	8441365	7136900		84.5	100	-15.5	30.0
EVE Acid	Ave	63290460	55752740		88.1	100	-11.9	30.0
PS Acid	Ave	15944677	16500290		103	100	3.5	30.0
PFO5DA	Ave	2465931	2350010		95.3	100	-4.7	50.0
13C3 HFPO-DA	Ave	6182315	4857596		196	250	-21.4	50.0
13C4 PFHpA	Ave	25948053	24751472		238	250	-4.6	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_038.d  
 Lims ID: CCV 389  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 30-Jan-2021 01:12:15 ALS Bottle#: 38 Worklist Smp#: 32  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (389)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:05:18 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: kurilyaki Date: 30-Jan-2021 09:23:57

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.961	3.084	-0.123		1143089	0.0817		81.7	1299	M
2 R-EVE										M
405.00 > 217.00	7.126	6.733	0.393		697879	0.0848		84.8	4490	M
3 R-PSDA										M
440.90 > 241.00	7.168	6.822	0.346		362235	0.0591		59.1	4620	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	7.222	6.923	0.299		1440947	0.0652		65.2	11343	M
5 PMPA										M
229.00 > 185.00	6.989	7.031	-0.042		909560	0.0825		82.5	627	M
6 NVHOS										M
297.00 > 135.00	7.793	7.567	0.226		1574005	0.0893		89.3	9651	M
7 PFO2HxA										
245.00 > 85.00	8.296	8.197	0.099		1181830	0.0882		88.2	8424	
8 PEPA										
278.90 > 234.90	8.855	8.840	0.015		704490	0.0967		96.7	3066	
9 PES										
314.90 > 135.00	9.119	9.120	-0.001		8441029	0.0989		98.9	131588	
10 PFECA B										
295.00 > 201.00	9.342	9.345	-0.003		811253	0.0939		93.9	24160	
11 PFO3OA										
310.90 > 85.00	9.568	9.598	-0.030		911949	0.0925		92.5	10620	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.678	9.681	-0.003		1214399	0.1964		78.6	33791	
13 HPFO-DA										
285.00 > 169.00	9.678	9.681	-0.003	1.000	553546	0.0997		99.7	15276	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.037	10.041	-0.004		10955343	0.0957		95.7	196817	
16 Hydro-EVE Acid										
427.00 > 282.90	10.090	10.092	-0.002		5818885	0.0929		92.9	89871	
D 15 13C4 PFHpA										
367.00 > 322.00	10.090	10.092	-0.002		6187868	0.2385		95.4	188468	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.090	10.092	-0.002	1.000	2576411	0.1012	Target=0.00	101	59094	
363.00 > 169.00	10.090	10.092	-0.002	1.000	1590055		1.62(0.00-0.00)		48498	
17 Hydro-PS Acid										
463.00 > 262.90	10.115	10.117	-0.002		3666144	0.1003		100	67838	
19 PFECA G										
378.90 > 184.90	10.214	10.216	-0.002		2322453	0.0954		95.4	73990	
20 PFO4DA										
376.90 > 85.00	10.363	10.365	-0.002		713690	0.0845		84.5	8510	
21 PS Acid										
443.00 > 146.90	10.412	10.414	-0.002		1650029	0.1035		103	53390	
22 EVE Acid										
407.00 > 262.90	10.412	10.439	-0.027		5575274	0.0881		88.1	106761	
23 TAF										
442.90 > 85.00	10.906	10.927	-0.021		235001	0.0953		95.3	1035	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00389

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_038.d

Injection Date: 30-Jan-2021 01:12:15

Instrument ID: A7\_N

Lims ID: CCV 389

Client ID:

Operator ID: abservice

ALS Bottle#: 38

Worklist Smp#: 32

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

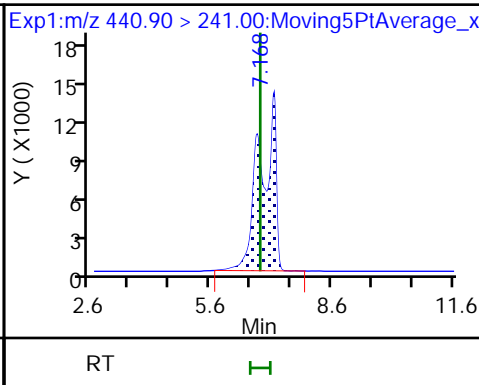
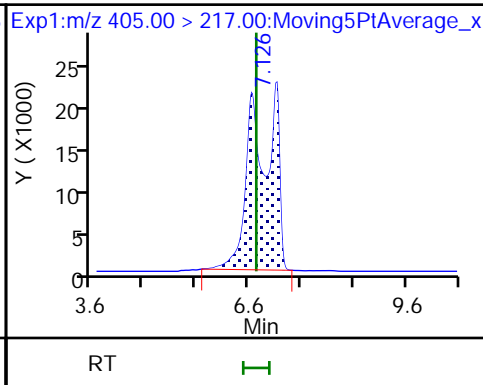
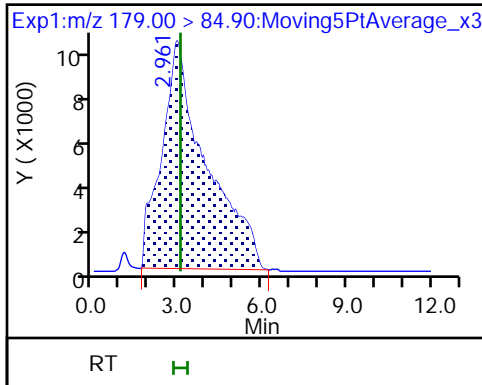
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

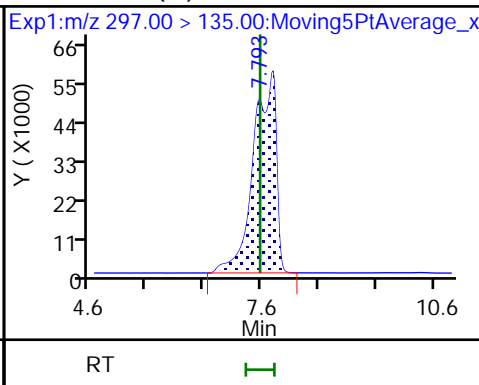
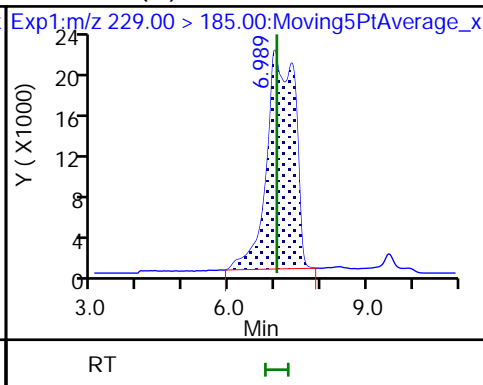
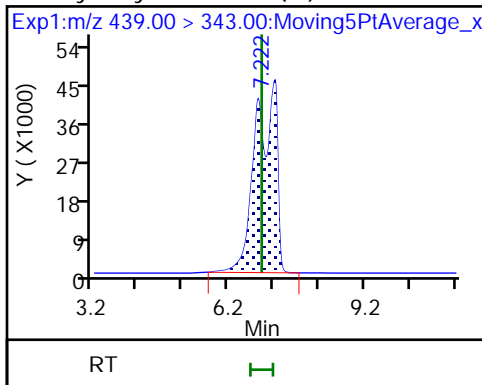
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

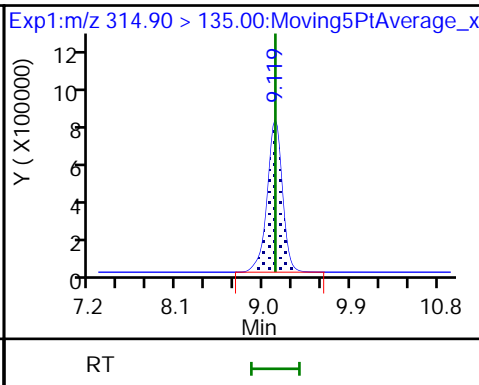
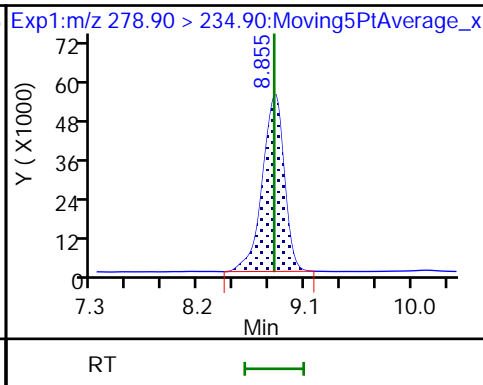
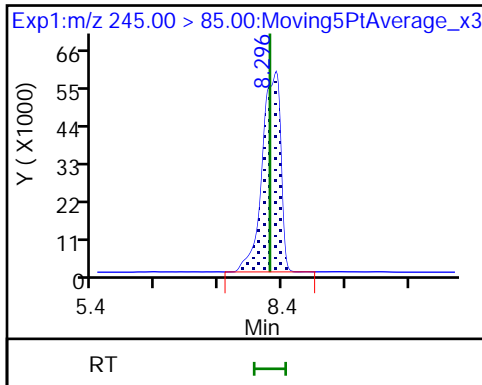
6 NVHOS (M)



7 PFO2HxA

8 PEPA

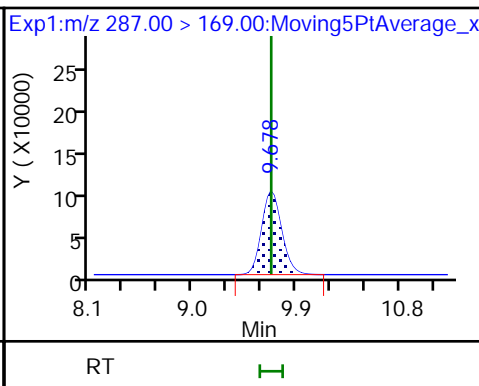
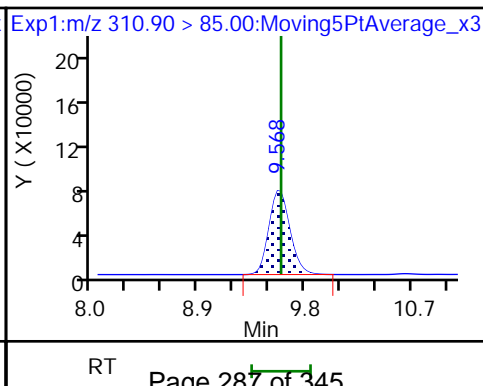
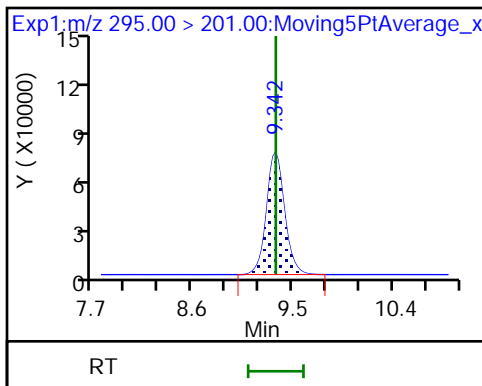
9 PES

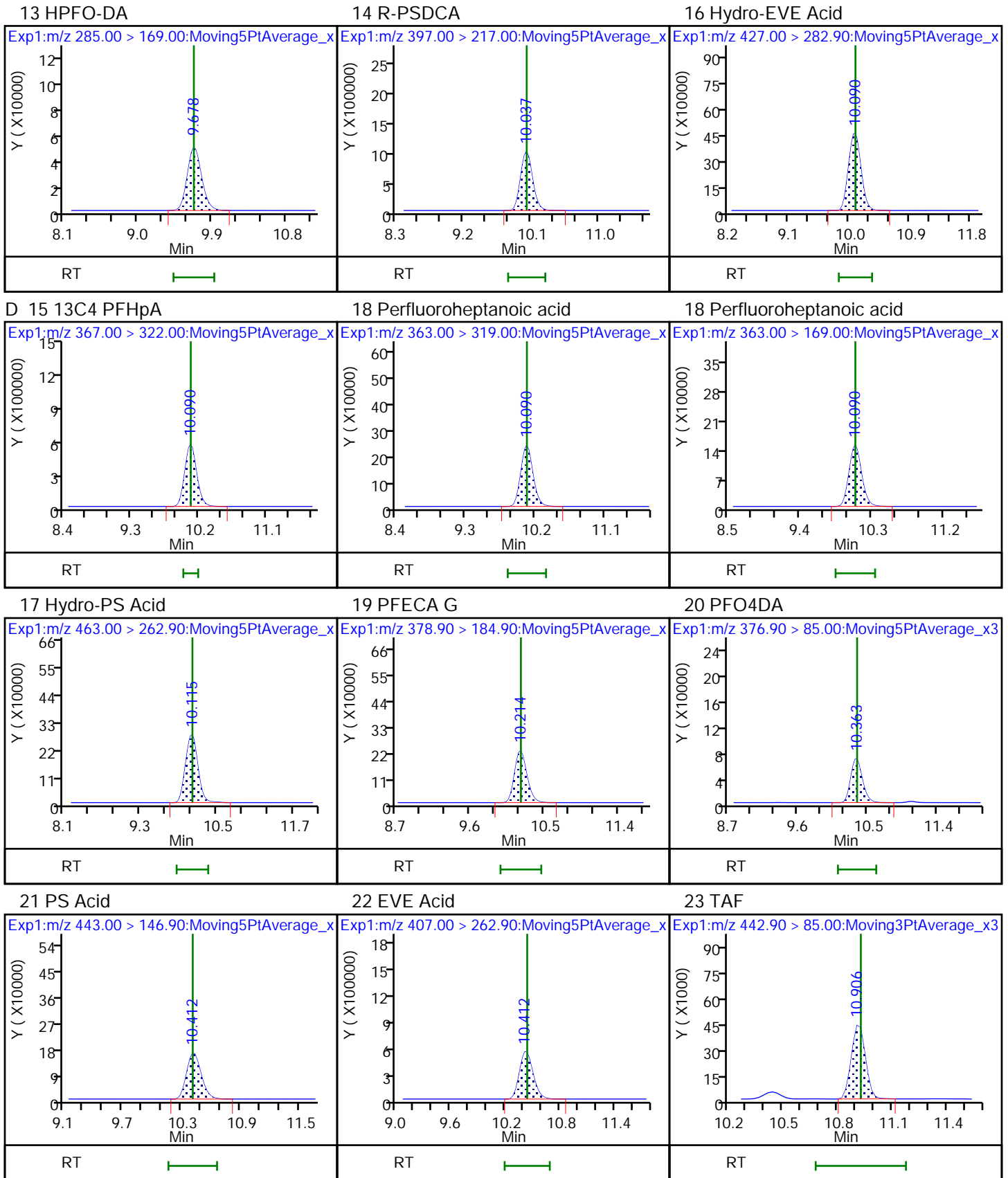


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

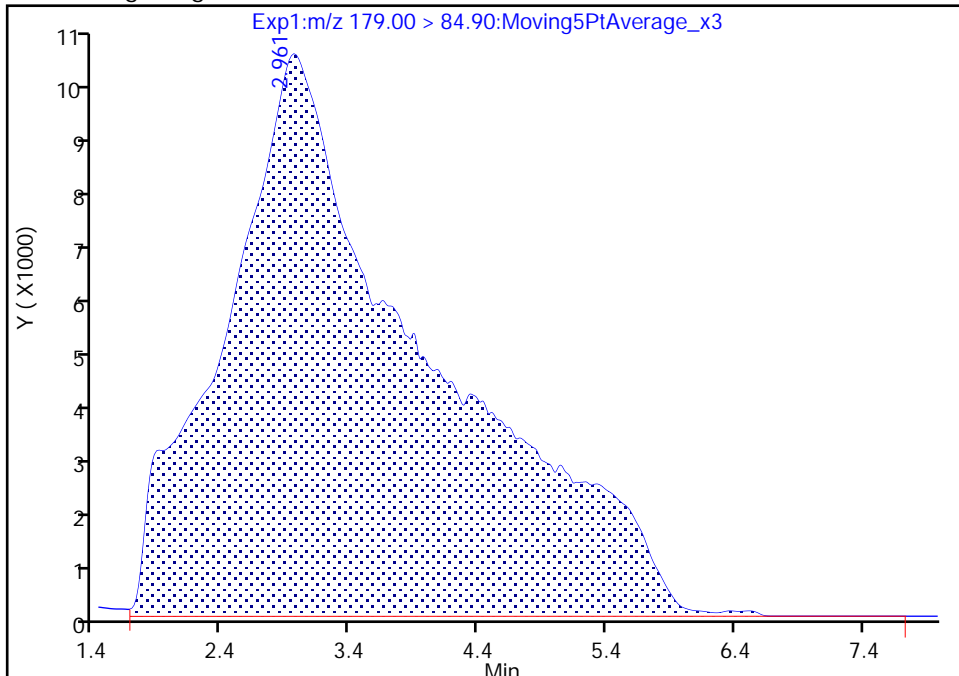
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_038.d  
Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

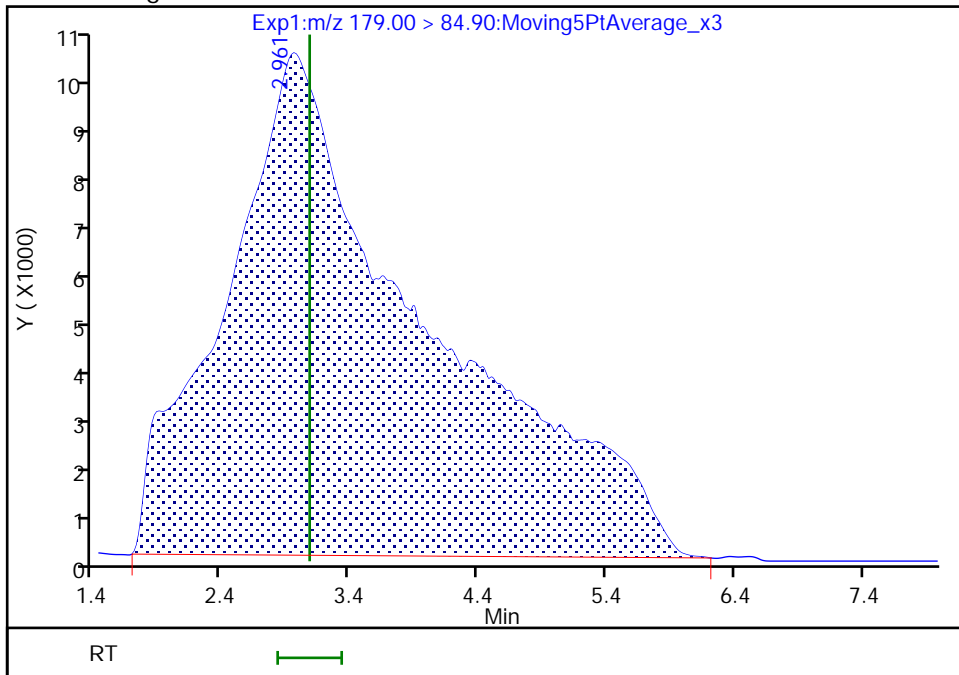
RT: 2.96  
Area: 1174118  
Amount: 0.083894  
Amount Units: ng/ml

Processing Integration Results



RT: 2.96  
Area: 1143089  
Amount: 0.081677  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:23:17  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 290 of 345

Eurofins TestAmerica, Sacramento

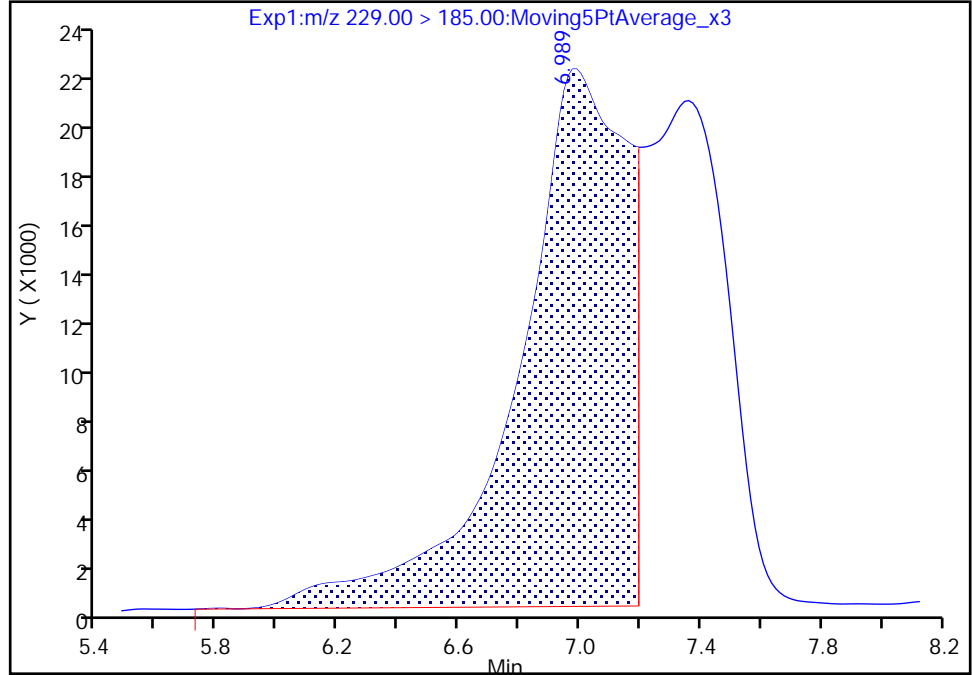
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Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

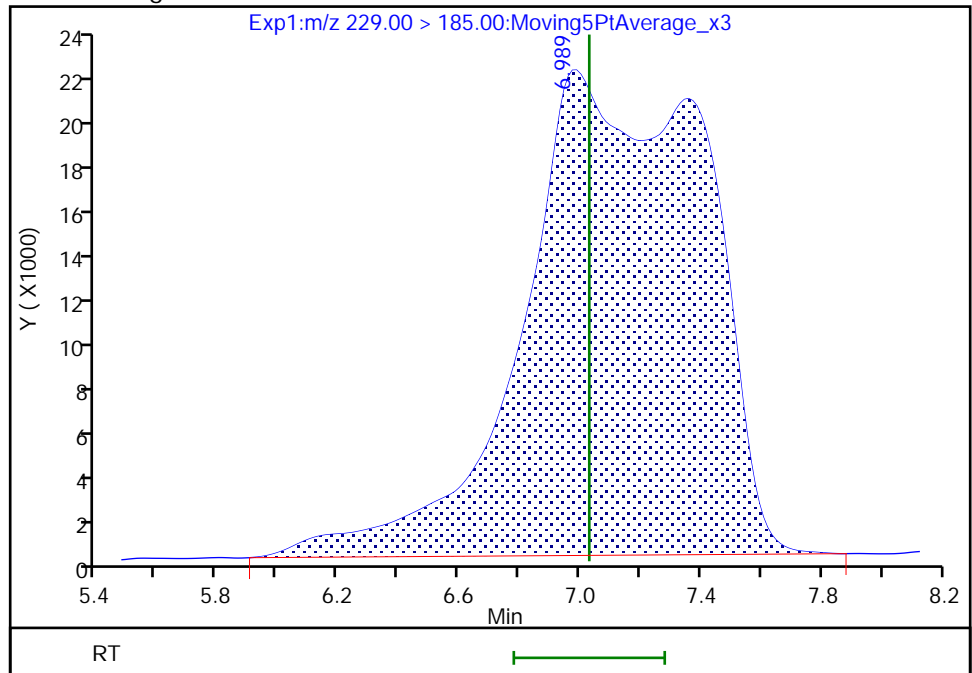
RT: 6.99  
Area: 537571  
Amount: 0.048464  
Amount Units: ng/ml

Processing Integration Results



RT: 6.99  
Area: 909560  
Amount: 0.082466  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:23:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

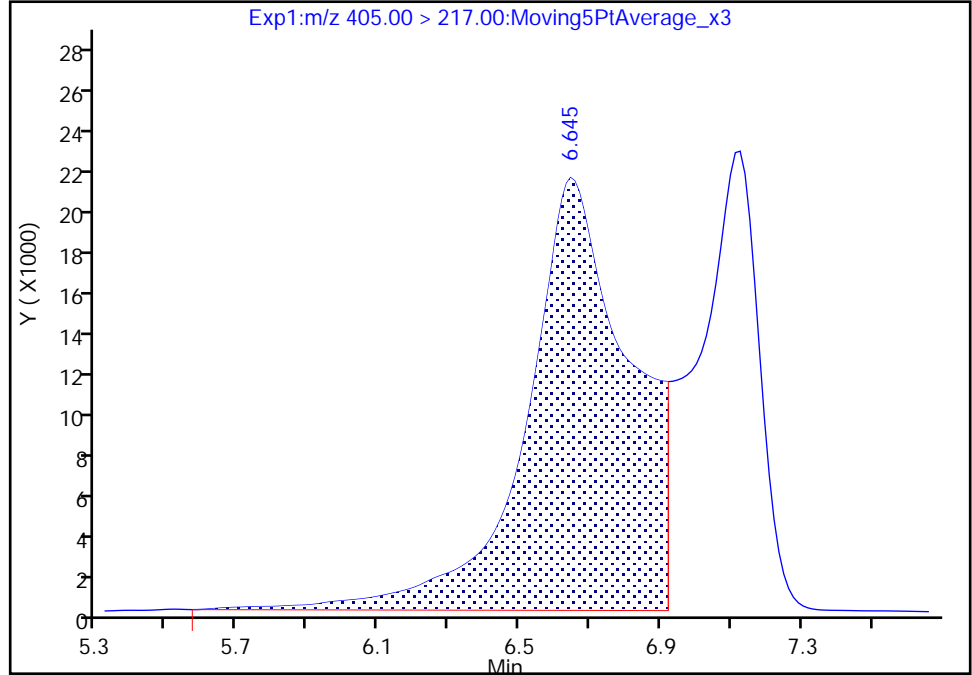
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_038.d  
Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

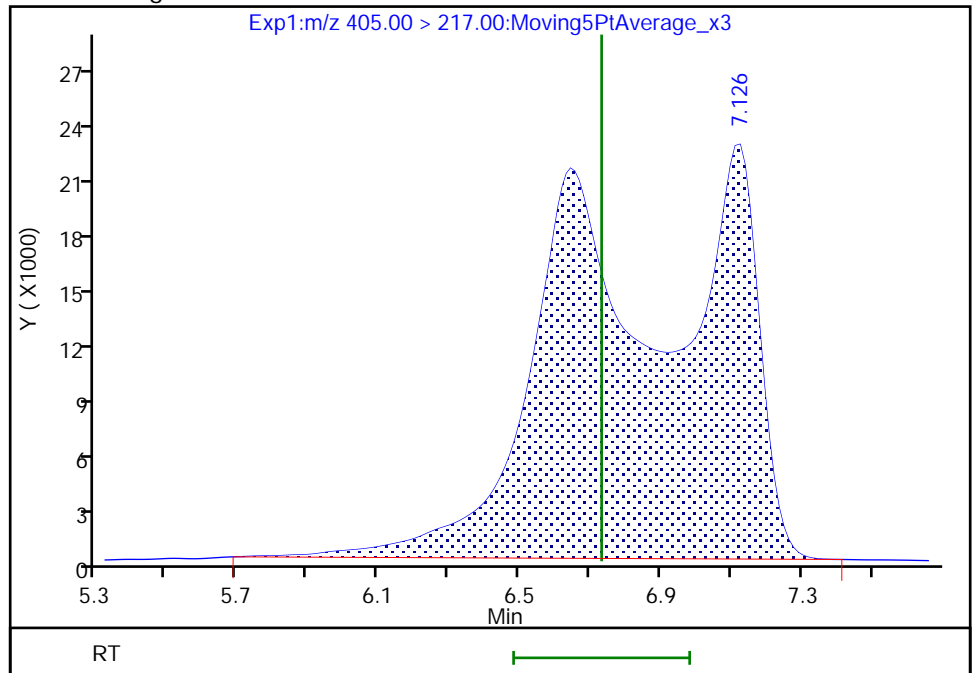
RT: 6.64  
Area: 432383  
Amount: 0.052543  
Amount Units: ng/ml

Processing Integration Results



RT: 7.13  
Area: 697879  
Amount: 0.084805  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

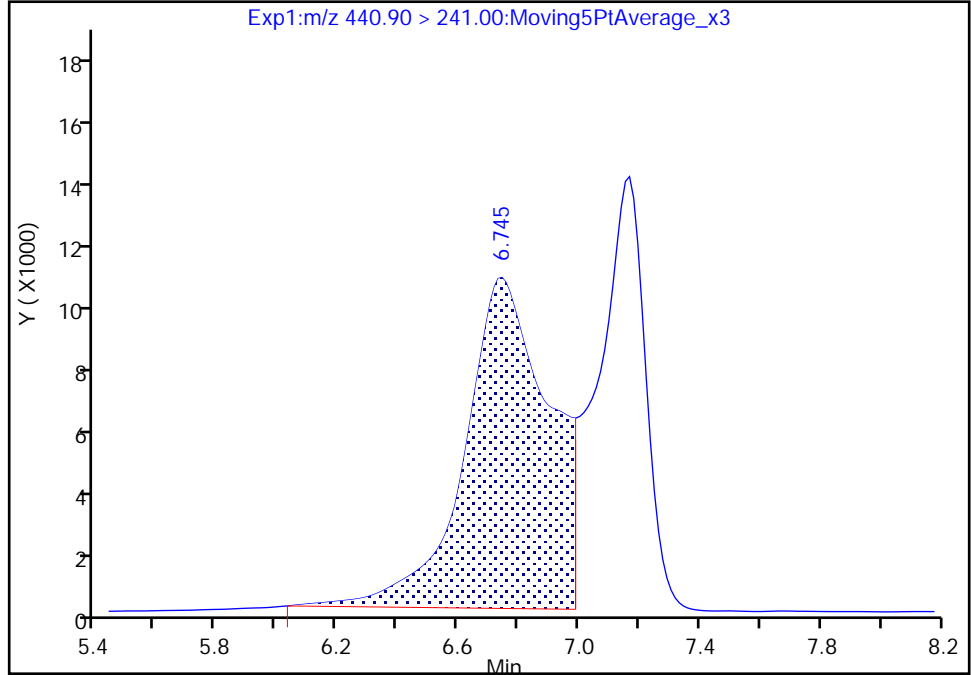
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Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

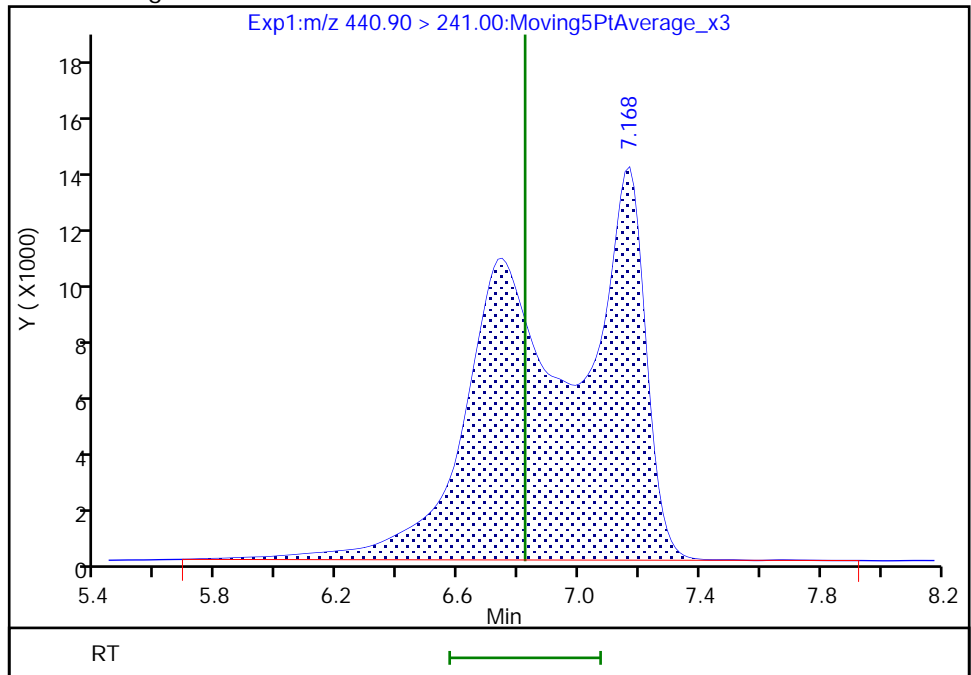
RT: 6.74  
Area: 204809  
Amount: 0.033418  
Amount Units: ng/ml

Processing Integration Results



RT: 7.17  
Area: 362235  
Amount: 0.059104  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

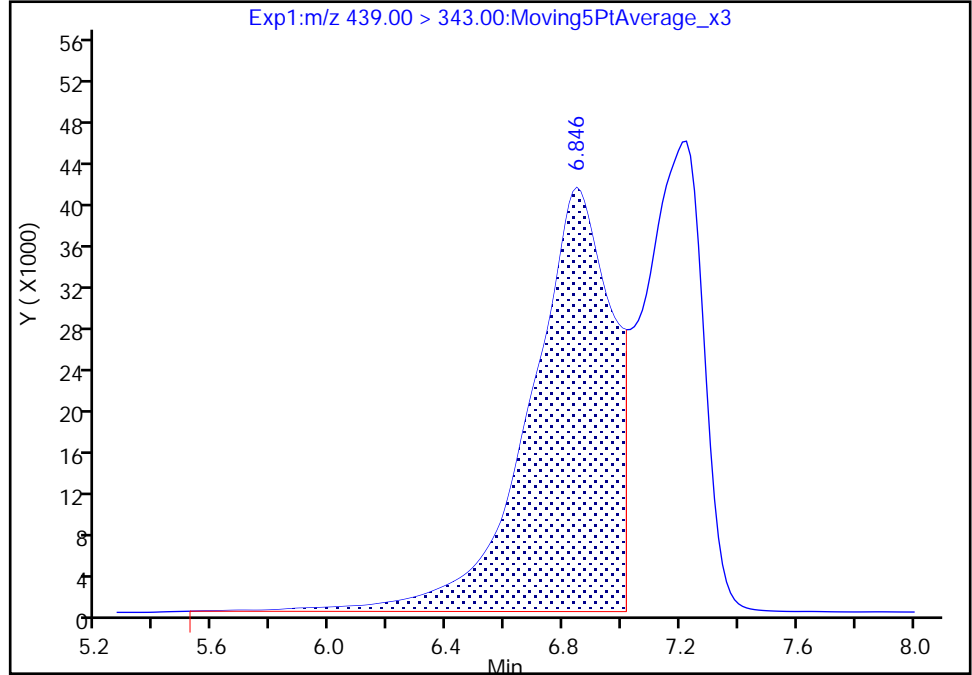
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_038.d  
Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

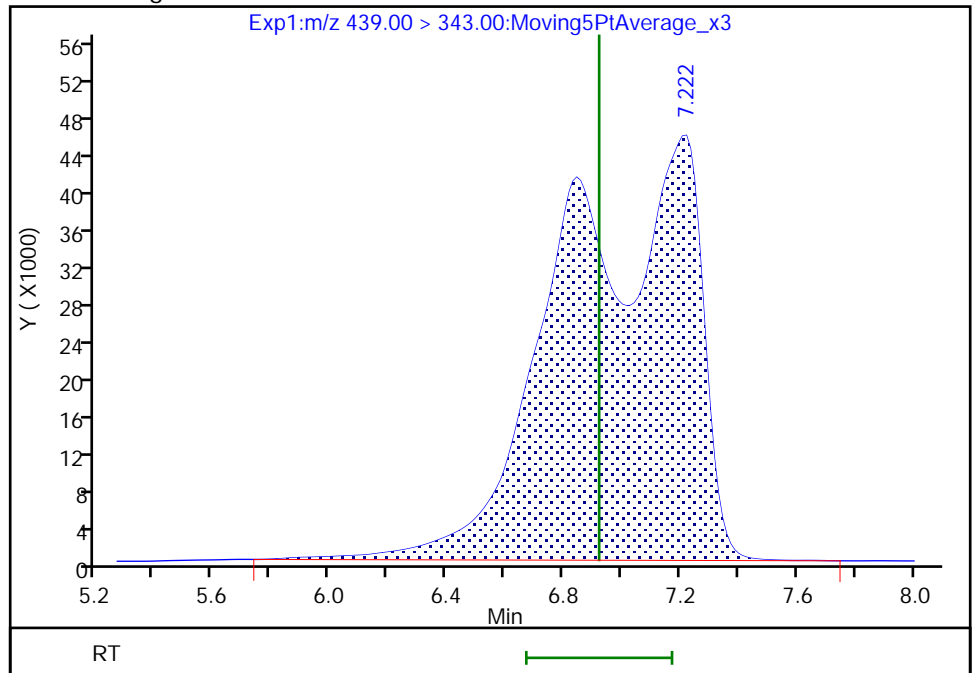
RT: 6.85  
Area: 802696  
Amount: 0.036342  
Amount Units: ng/ml

Processing Integration Results



RT: 7.22  
Area: 1440947  
Amount: 0.065239  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

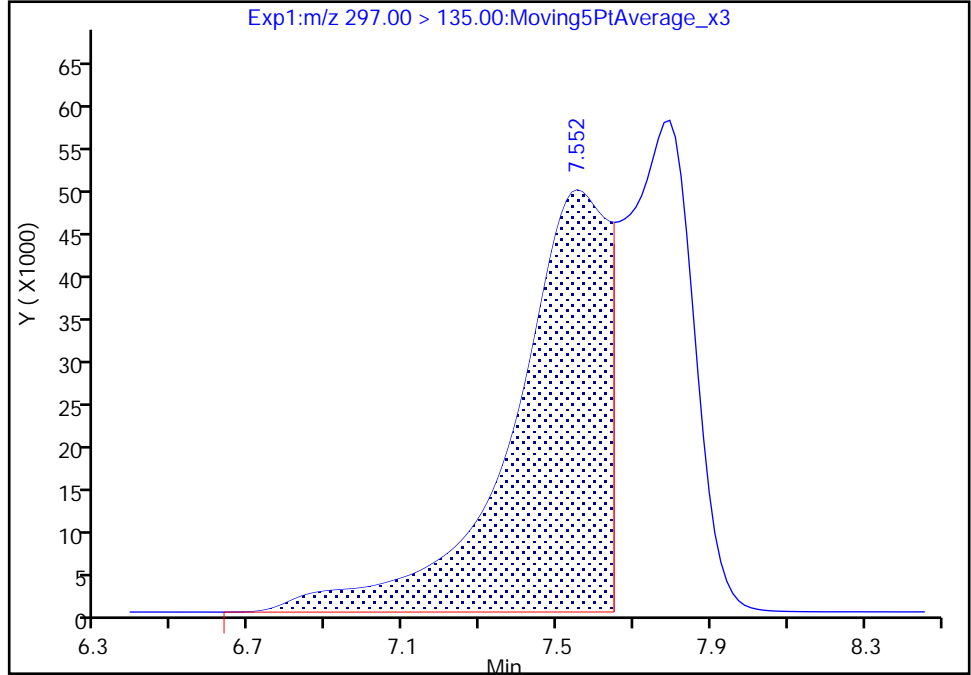
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Injection Date: 30-Jan-2021 01:12:15 Instrument ID: A7\_N  
Lims ID: CCV 389  
Client ID:  
Operator ID: abservice ALS Bottle#: 38 Worklist Smp#: 32  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 NVHOS, CAS: 1132933-86-8

Signal: 1

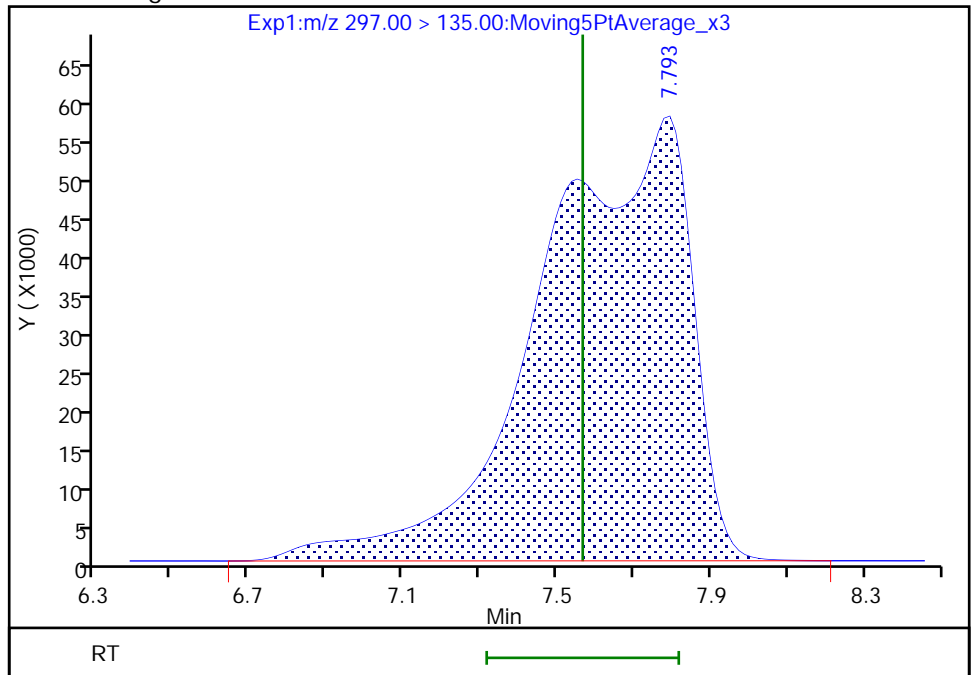
RT: 7.55  
Area: 865352  
Amount: 0.049086  
Amount Units: ng/ml

Processing Integration Results



RT: 7.79  
Area: 1574005  
Amount: 0.089284  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:23:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-457168/1 Calibration Date: 01/30/2021 23:14  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.30\_TB3\_B\_002.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	13369600		95.5	100	-4.5	30.0
R-EVE	Ave	8229186	7093860		86.2	100	-13.8	50.0
R-PSDA	Ave	6128733	3714350		60.6	100	-39.4	50.0
Hydrolyzed PSDA	Ave	22087301	14925670		67.6	100	-32.4	50.0
PMPA	Lin2		10259880		93.1	100	-6.9	30.0
NVHOS	Ave	17629226	18329840		104	100	4.0	30.0
PFO2HxA	Ave	13398274	12137300		90.6	100	-9.4	30.0
PEPA	Ave	7285690	7375090		101	100	1.2	30.0
PES	Ave	85378317	94263290		110	100	10.4	30.0
PFECA B	Ave	8635464	8329890		96.5	100	-3.5	30.0
PFO3OA	Ave	9863100	8728410		88.5	100	-11.5	30.0
HFPO-DA	AveID	1.143	1.129		98.7	100	-1.3	40.0
R-PSDCA	Ave	114445857	128216730		112	100	12.0	30.0
Hydro-EVE Acid	Ave	62655097	68362300		109	100	9.1	30.0
Perfluoroheptanoic acid	L2ID		0.9929		96.5	100	-3.5	40.0
Hydro-PS Acid	Ave	36563062	41086550		112	100	12.4	30.0
PFECA G	Ave	24344710	25029780		103	100	2.8	30.0
PFO4DA	Ave	8441365	8828450		105	100	4.6	30.0
PS Acid	Ave	15944677	18338490		115	100	15.0	30.0
EVE Acid	Ave	63290460	60403060		95.4	100	-4.6	30.0
PFO5DA	Ave	2465931	1718180		69.7	100	-30.3	50.0
13C3 HFPO-DA	Ave	6182315	5400924		218	250	-12.6	50.0
13C4 PFHpA	Ave	25948053	28069512		270	250	8.2	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_002.d  
 Lims ID: CCV 390  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 30-Jan-2021 23:14:51 ALS Bottle#: 2 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (390)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:09:02 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld

Date: 01-Feb-2021 05:09:02

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.855	2.768	0.087	1336960	0.0955		95.5	2858	
2 R-EVE	405.00 > 217.00	6.671	6.551	0.120	709386	0.0862		86.2	8384	M
3 R-PSDA	440.90 > 241.00	6.773	6.662	0.111	371435	0.0606		60.6	7238	M
4 Hydrolyzed PSDA	439.00 > 343.00	6.874	6.751	0.123	1492567	0.0676		67.6	17821	M
5 PMPA	229.00 > 185.00	6.964	6.968	-0.004	1025988	0.0931		93.1	892	M
6 NVHOS	297.00 > 135.00	7.514	7.514	0.0	1832984	0.1040		104	14613	
7 PFO2HxA	245.00 > 85.00	8.165	8.134	0.031	1213730	0.0906		90.6	7408	
8 PEPA	278.90 > 234.90	8.826	8.827	-0.001	737509	0.1012		101	2858	
9 PES	314.90 > 135.00	9.124	9.124	0.0	9426329	0.1104		110	137948	
10 PFECA B	295.00 > 201.00	9.348	9.348	0.0	832989	0.0965		96.5	26605	
11 PFO3OA	310.90 > 85.00	9.603	9.576	0.027	872841	0.0885		88.5	8282	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.685	9.686	-0.001	1350231	0.2184		87.4	38799	
13 HPFO-DA	285.00 > 169.00	9.685	9.686	-0.001	609702	0.0987	1.000	98.7	17435	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.046	10.046	0.0		12821673	0.1120		112	195763	
16 Hydro-EVE Acid										
427.00 > 282.90	10.097	10.097	0.0		6836230	0.1091		109	89212	
D 15 13C4 PFHpA										
367.00 > 322.00	10.097	10.097	0.0		7017378	0.2704		108	219828	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.097	10.097	0.0	1.000	2787097	0.0965	Target=0.00	96.5	52358	
363.00 > 169.00	10.097	10.097	0.0	1.000	1665355		1.67(0.00-0.00)		39028	
17 Hydro-PS Acid										
463.00 > 262.90	10.121	10.097	0.024		4108655	0.1124		112	77164	
19 PFECA G										
378.90 > 184.90	10.221	10.221	0.0		2502978	0.1028		103	81165	
20 PFO4DA										
376.90 > 85.00	10.369	10.345	0.024		882845	0.1046		105	8608	
21 PS Acid										
443.00 > 146.90	10.419	10.419	0.0		1833849	0.1150		115	59543	
22 EVE Acid										
407.00 > 262.90	10.444	10.444	0.0		6040306	0.0954		95.4	97647	
23 TAF										
442.90 > 85.00	10.931	10.931	0.0		171818	0.0697		69.7	565	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00387

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_002.d

Injection Date: 30-Jan-2021 23:14:51

Instrument ID: A7\_N

Lims ID: CCV 390

Client ID:

Operator ID: abservice

ALS Bottle#: 2

Worklist Smp#: 1

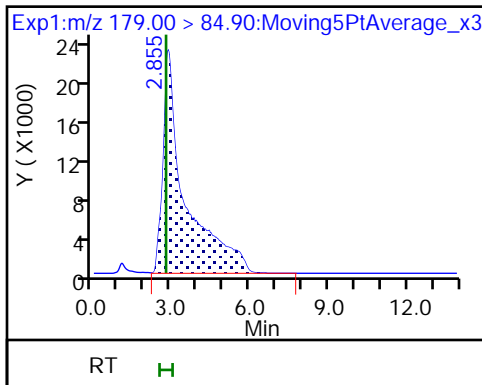
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

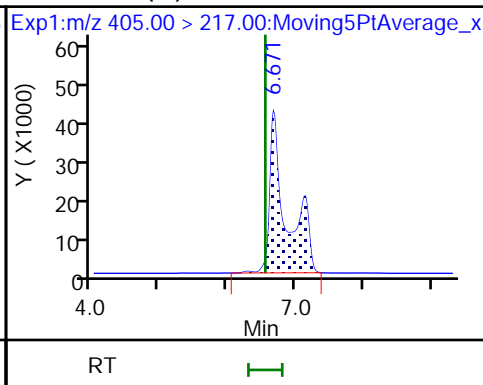
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

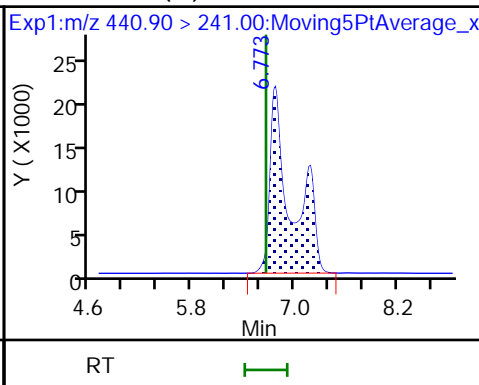
1 PFMOAA



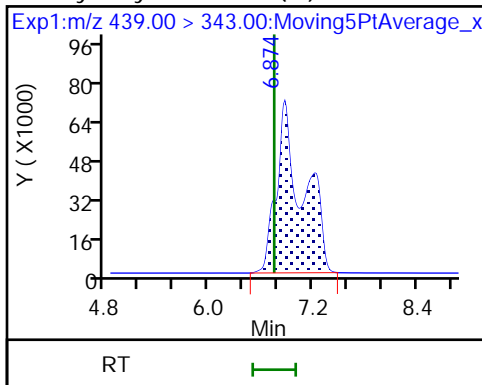
2 R-EVE (M)



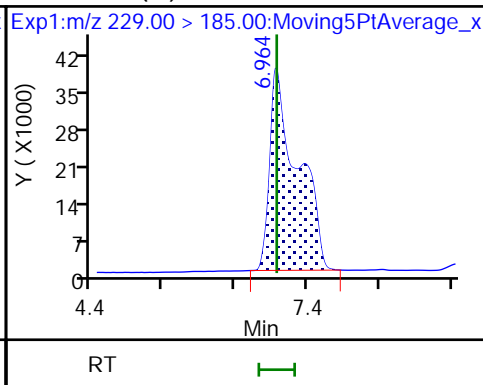
3 R-PSDA (M)



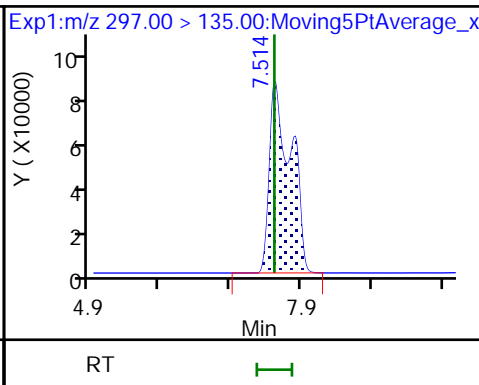
4 Hydrolyzed PSDA (M)



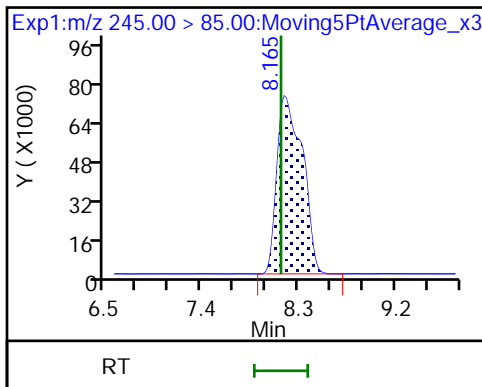
5 PMPA (M)



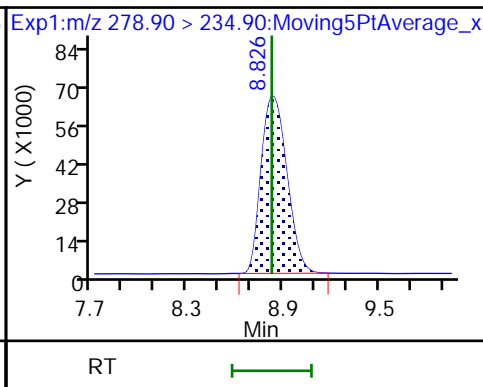
6 NVHOS



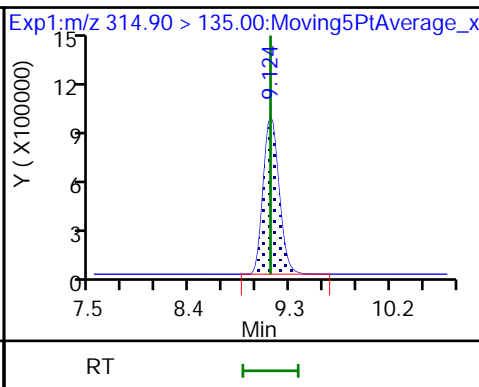
7 PFO2HxA



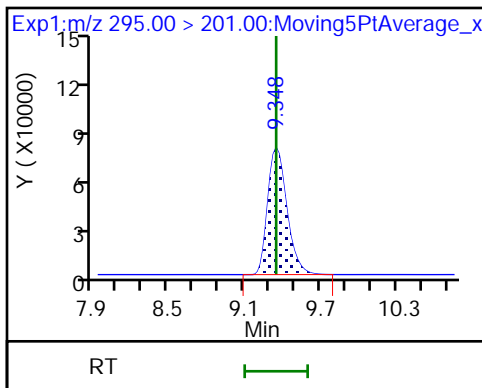
8 PEPA



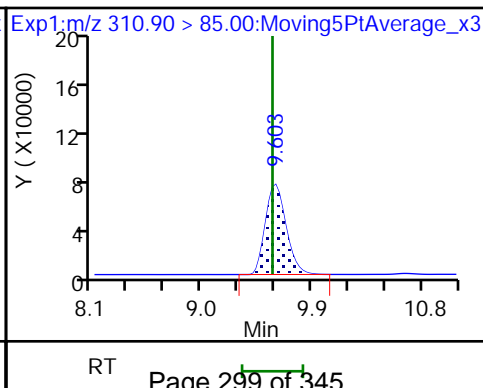
9 PES



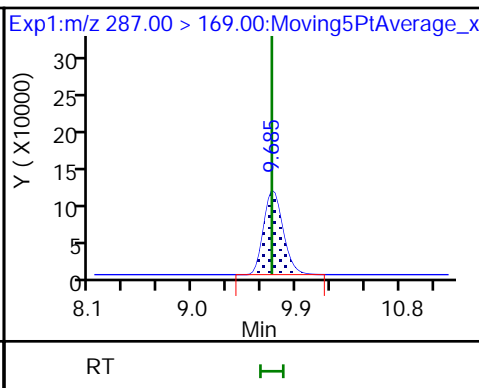
10 PFECA B

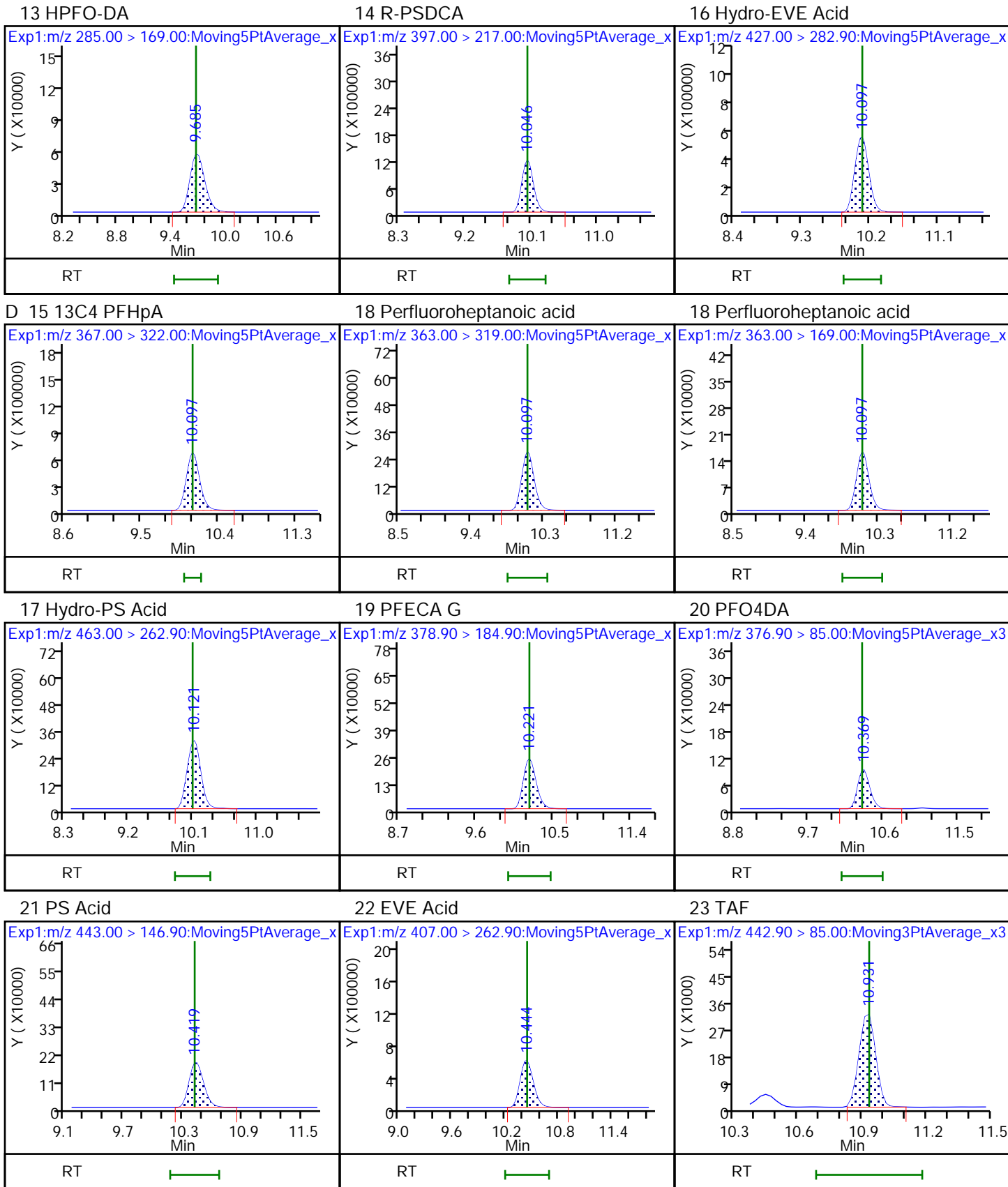


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

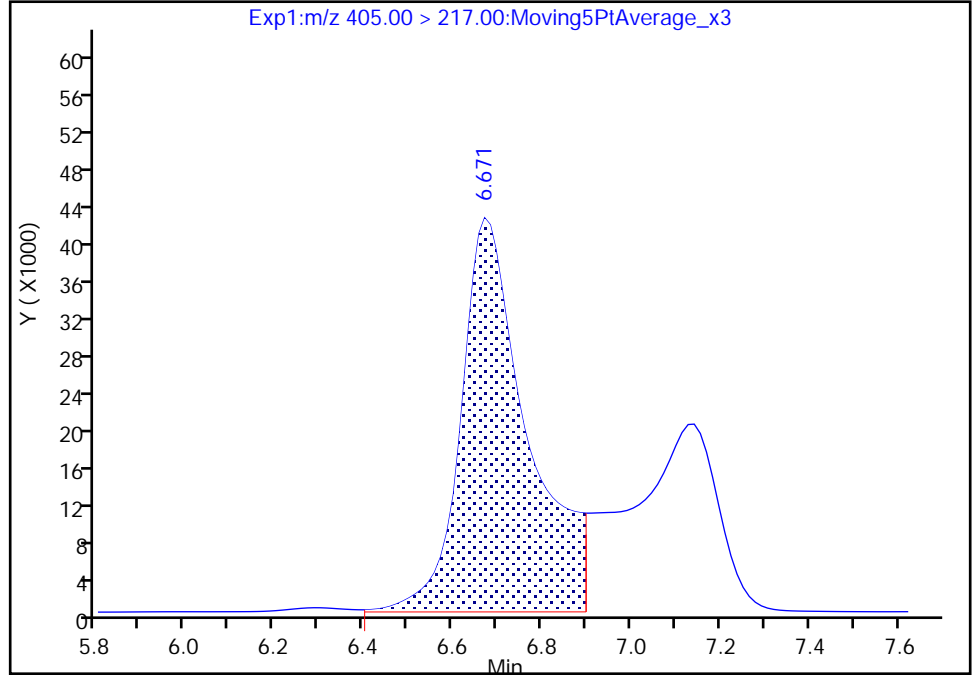
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Injection Date: 30-Jan-2021 23:14:51 Instrument ID: A7\_N  
Lims ID: CCV 390  
Client ID:  
Operator ID: abservice ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

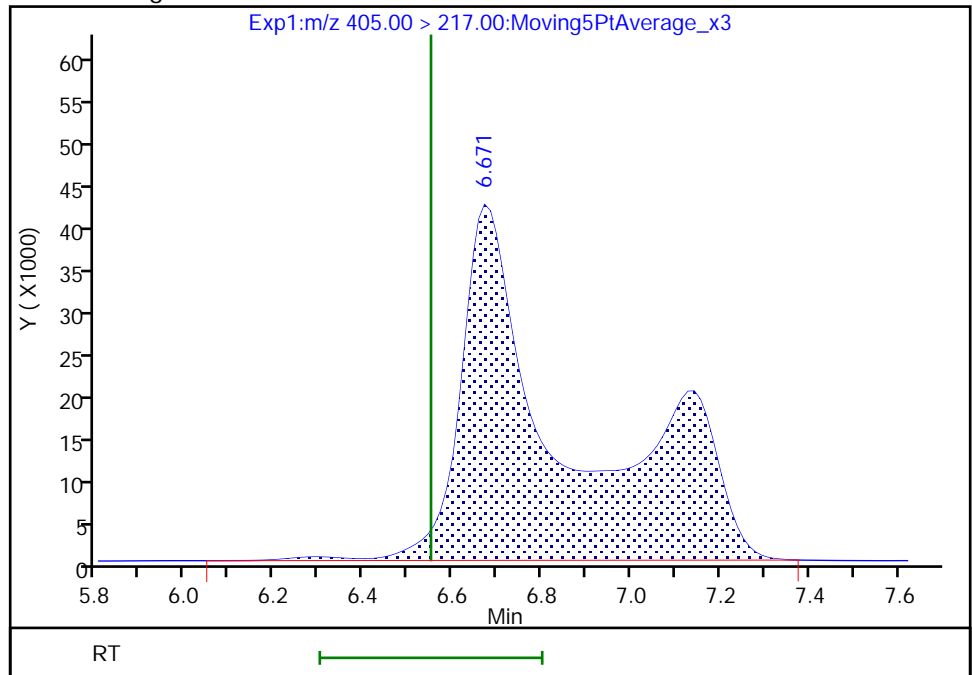
RT: 6.67  
Area: 435696  
Amount: 0.052945  
Amount Units: ng/ml

Processing Integration Results



RT: 6.67  
Area: 709386  
Amount: 0.086204  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:08:57

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

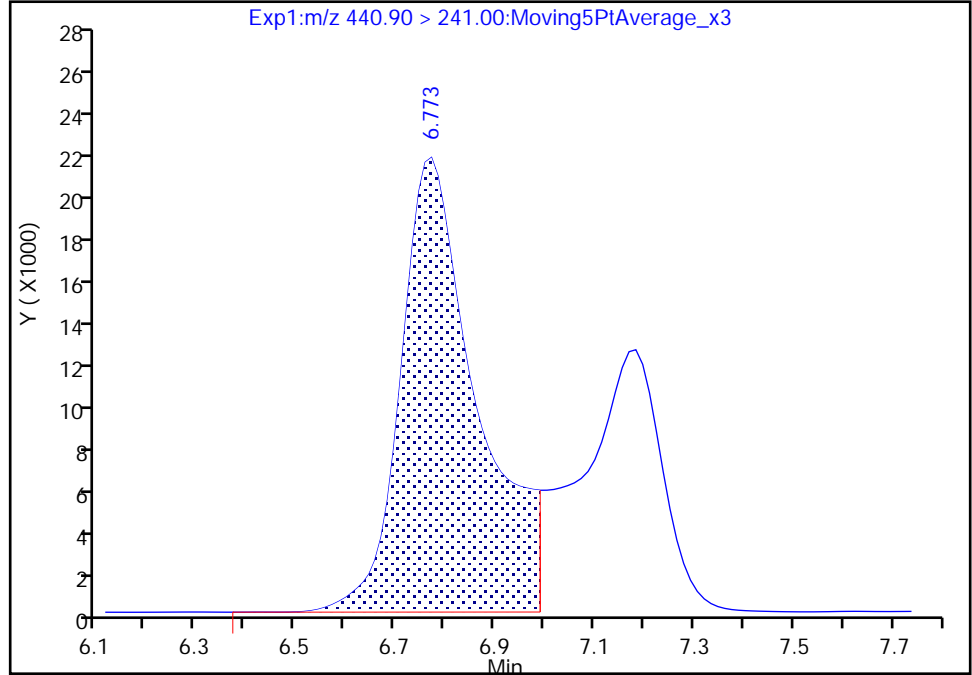
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_002.d  
Injection Date: 30-Jan-2021 23:14:51 Instrument ID: A7\_N  
Lims ID: CCV 390  
Client ID:  
Operator ID: abservice ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

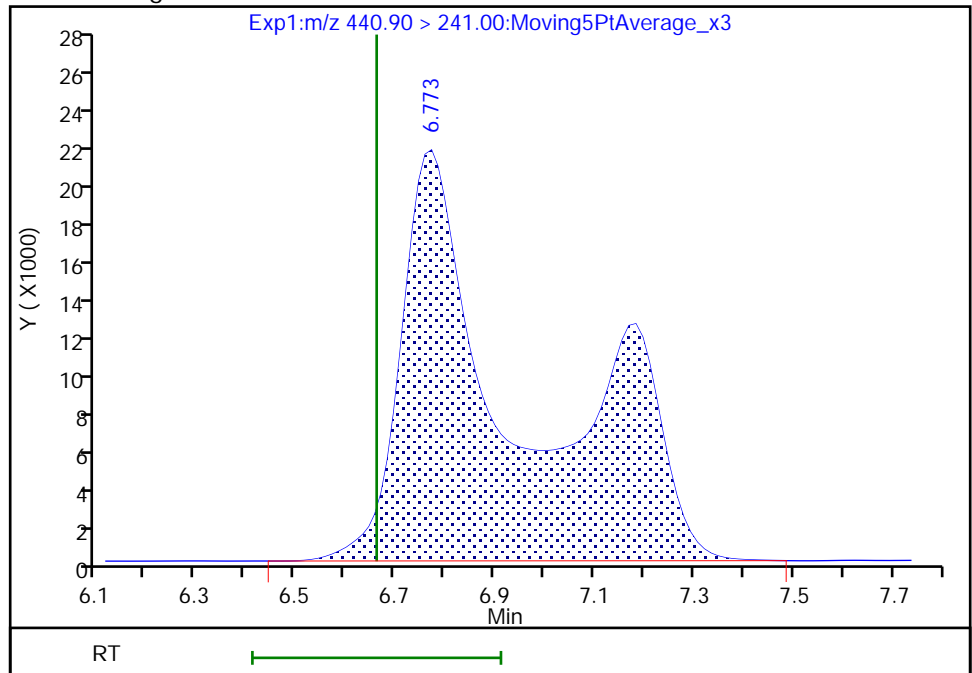
RT: 6.77  
Area: 231389  
Amount: 0.037755  
Amount Units: ng/ml

Processing Integration Results



RT: 6.77  
Area: 371435  
Amount: 0.060606  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 31-Jan-2021 11:36:33  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

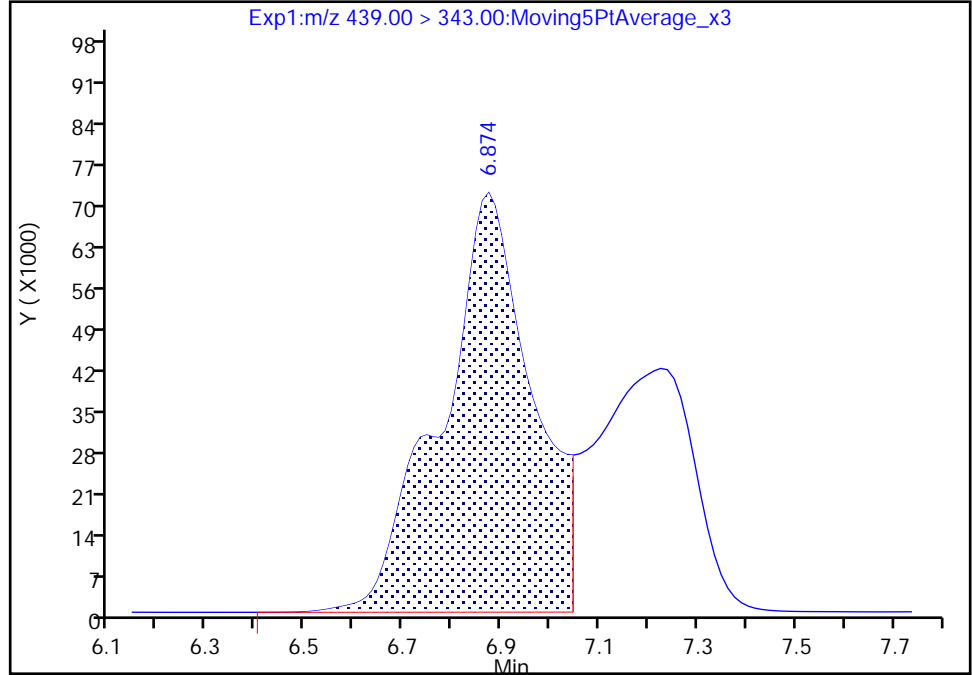
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_002.d  
Injection Date: 30-Jan-2021 23:14:51 Instrument ID: A7\_N  
Lims ID: CCV 390  
Client ID:  
Operator ID: abservice ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

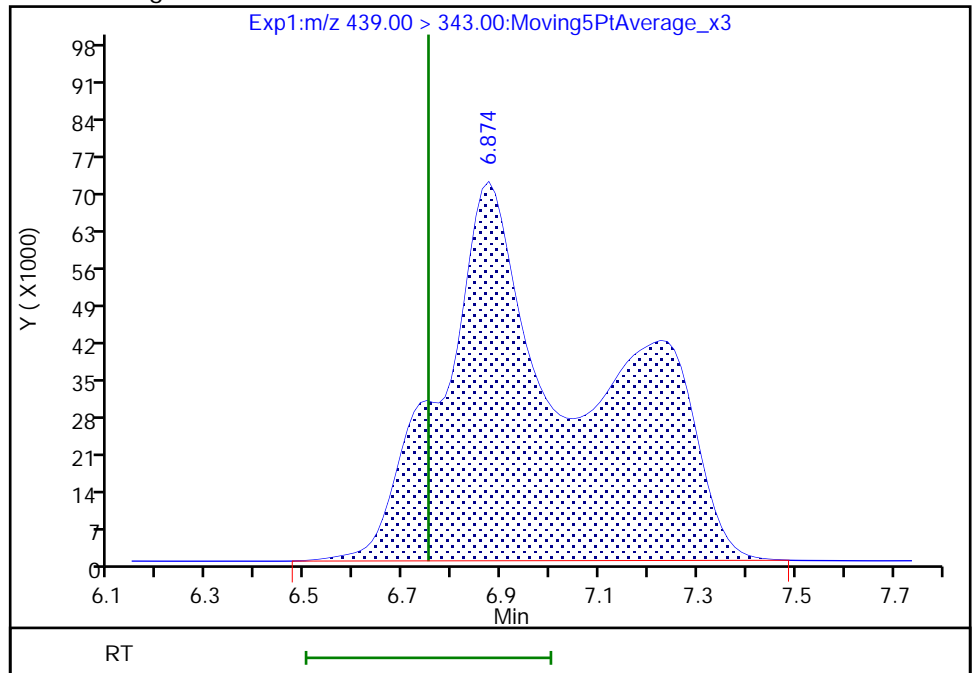
RT: 6.87  
Area: 918615  
Amount: 0.041590  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 1492567  
Amount: 0.067576  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 31-Jan-2021 11:36:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

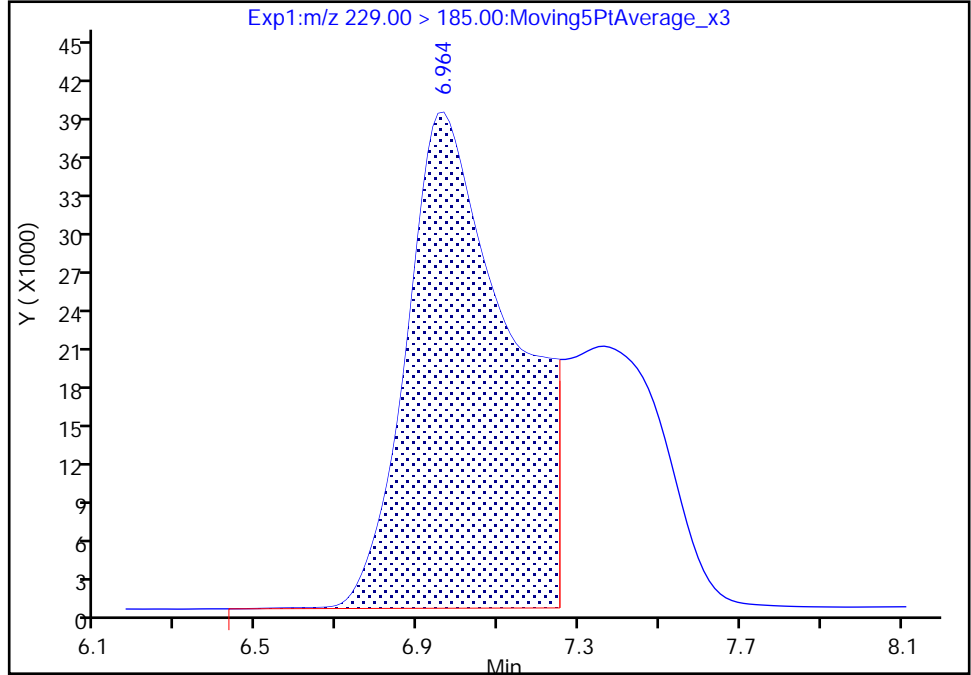
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_002.d  
Injection Date: 30-Jan-2021 23:14:51 Instrument ID: A7\_N  
Lims ID: CCV 390  
Client ID:  
Operator ID: abservice ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

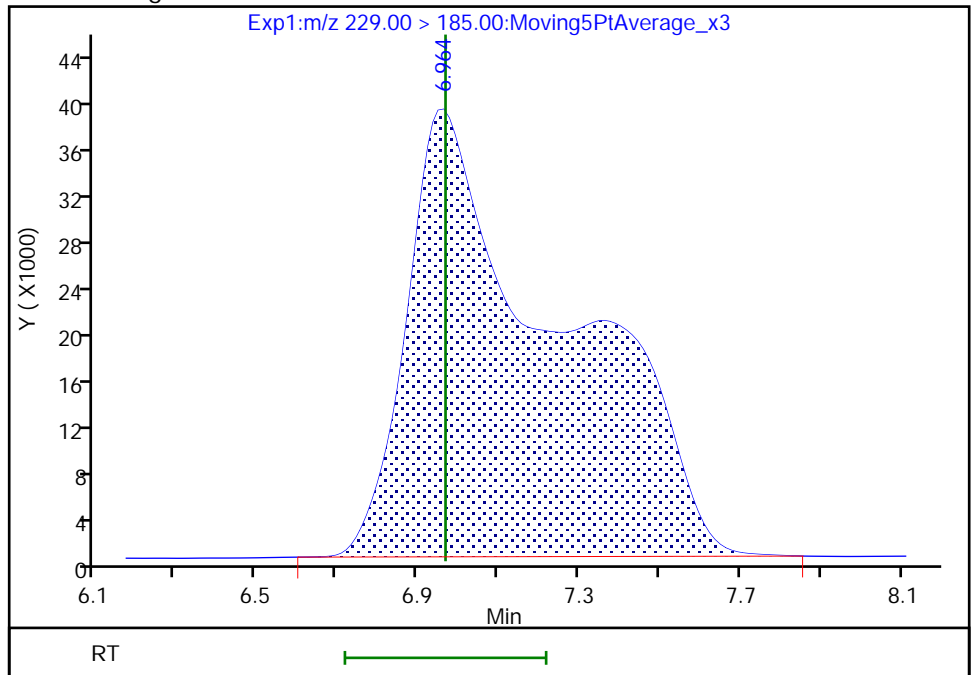
RT: 6.96  
Area: 684786  
Amount: 0.061921  
Amount Units: ng/ml

Processing Integration Results



RT: 6.96  
Area: 1025988  
Amount: 0.093108  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 31-Jan-2021 11:36:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 305 of 345



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-457168/11 Calibration Date: 01/31/2021 02:10  
 Instrument ID: A7\_N Calib Start Date: 01/15/2021 16:23  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 01/15/2021 19:19  
 Lab File ID: 2021.01.30\_TB3\_B\_012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	13995208	12925930		92.4	100	-7.6	30.0
R-EVE	Ave	8229186	7215330		87.7	100	-12.3	50.0
R-PSDA	Ave	6128733	3713290		60.6	100	-39.4	50.0
Hydrolyzed PSDA	Ave	22087301	14994140		67.9	100	-32.1	50.0
PMPA	Lin2		10019620		90.9	100	-9.1	30.0
NVHOS	Ave	17629226	18216240		103	100	3.3	30.0
PFO2HxA	Ave	13398274	12397950		92.5	100	-7.5	30.0
PEPA	Ave	7285690	7340880		101	100	0.8	30.0
PES	Ave	85378317	96244590		113	100	12.7	30.0
PFECA B	Ave	8635464	8523410		98.7	100	-1.3	30.0
PFO3OA	Ave	9863100	10014030		102	100	1.5	30.0
HFPO-DA	AveID	1.143	1.159		101	100	1.3	40.0
R-PSDCA	Ave	114445857	125328660		110	100	9.5	30.0
Hydro-EVE Acid	Ave	62655097	65608090		105	100	4.7	30.0
Perfluoroheptanoic acid	L2ID		1.039		101	100	1.0	40.0
Hydro-PS Acid	Ave	36563062	39188940		107	100	7.2	30.0
PFECA G	Ave	24344710	24149790		99.2	100	-0.8	30.0
PFO4DA	Ave	8441365	9650150		114	100	14.3	30.0
EVE Acid	Ave	63290460	64306780		102	100	1.6	30.0
PS Acid	Ave	15944677	17625600		111	100	10.5	30.0
PFO5DA	Ave	2465931	2025710		82.1	100	-17.9	50.0
13C3 HFPO-DA	Ave	6182315	5245784		212	250	-15.1	50.0
13C4 PFHpA	Ave	25948053	26677804		257	250	2.8	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_012.d  
 Lims ID: CCV 387  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 31-Jan-2021 02:10:27 ALS Bottle#: 12 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV (390)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Sublist: chrom-PFAS\_ChemoursP\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:09:32 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: contrerase Date: 31-Jan-2021 11:43:49

Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.890	2.768	0.122	1292593	0.0924		92.4	2916	
2 R-EVE	405.00 > 217.00	6.694	6.551	0.143	721533	0.0877		87.7	11067	M
3 R-PSDA	440.90 > 241.00	6.783	6.662	0.121	371329	0.0606		60.6	7669	M
4 Hydrolyzed PSDA	439.00 > 343.00	6.897	6.751	0.146	1499414	0.0679		67.9	19162	M
5 PMPA	229.00 > 185.00	6.975	6.968	0.007	1001962	0.0909		90.9	948	M
6 NVHOS	297.00 > 135.00	7.525	7.514	0.011	1821624	0.1033		103	15173	
7 PFO2HxA	245.00 > 85.00	8.160	8.134	0.026	1239795	0.0925		92.5	7912	
8 PEPA	278.90 > 234.90	8.820	8.827	-0.007	734088	0.1008		101	2706	
9 PES	314.90 > 135.00	9.118	9.124	-0.006	9624459	0.1127		113	143491	
10 PFECA B	295.00 > 201.00	9.342	9.348	-0.006	852341	0.0987		98.7	27807	
11 PFO3OA	310.90 > 85.00	9.595	9.576	0.019	1001403	0.1015		102	10641	
D 12 13C3 HFPO-DA	287.00 > 169.00	9.678	9.686	-0.008	1311446	0.2121		84.9	37952	
13 HPFO-DA	285.00 > 169.00	9.678	9.686	-0.008	607749	0.1013	1.000	101	17530	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
14 R-PSDCA										
397.00 > 217.00	10.037	10.046	-0.009		12532866	0.1095		110	189567	
16 Hydro-EVE Acid										
427.00 > 282.90	10.063	10.097	-0.034		6560809	0.1047		105	102048	
D 15 13C4 PFHpA										
367.00 > 322.00	10.090	10.097	-0.007		6669451	0.2570		103	204451	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.090	10.097	-0.007	1.000	2772167	0.1010	Target=0.00	101	51110	
363.00 > 169.00	10.090	10.097	-0.007	1.000	1696202		1.63(0.00-0.00)		39039	
17 Hydro-PS Acid										
463.00 > 262.90	10.116	10.097	0.019		3918894	0.1072		107	72166	
19 PFECA G										
378.90 > 184.90	10.218	10.221	-0.003		2414979	0.0992		99.2	76625	
20 PFO4DA										
376.90 > 85.00	10.342	10.345	-0.003		965015	0.1143		114	9385	
21 PS Acid										
443.00 > 146.90	10.416	10.419	-0.003		1762560	0.1105		111	43345	
22 EVE Acid										
407.00 > 262.90	10.416	10.444	-0.028		6430678	0.1016		102	156519	
23 TAF										
442.90 > 85.00	10.909	10.931	-0.022		202571	0.0821		82.1	663	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00389

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210131-112384.b\2021.01.30\_TB3\_B\_012.d

Injection Date: 31-Jan-2021 02:10:27

Instrument ID: A7\_N

Lims ID: CCV 387

Client ID:

Operator ID: abservice

ALS Bottle#: 12

Worklist Smp#: 11

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

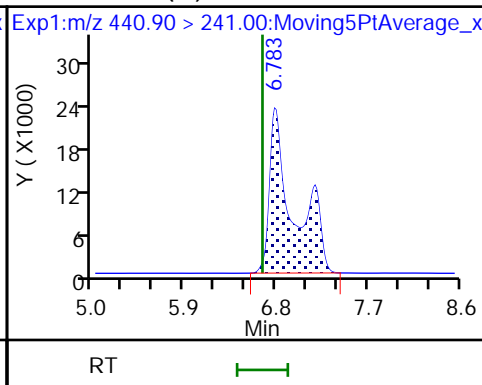
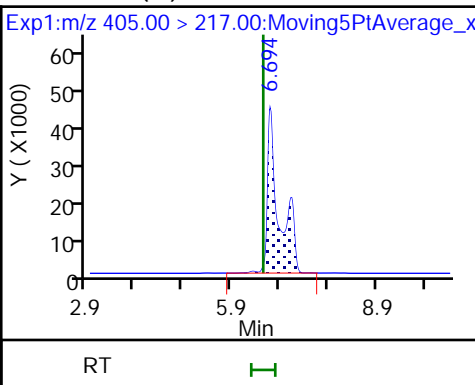
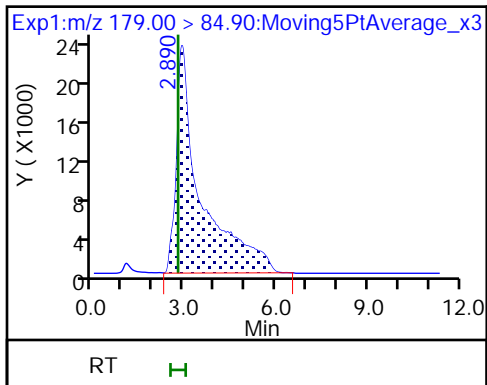
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA

2 R-EVE (M)

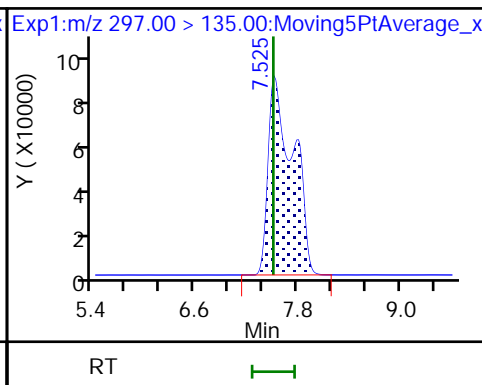
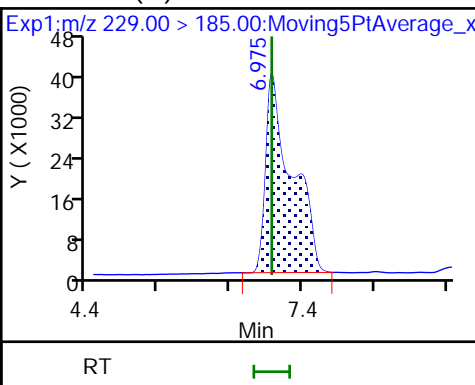
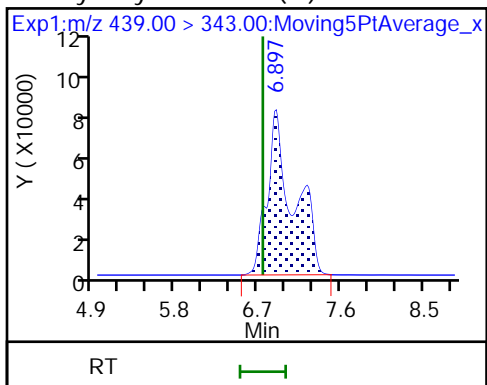
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

5 PMPA (M)

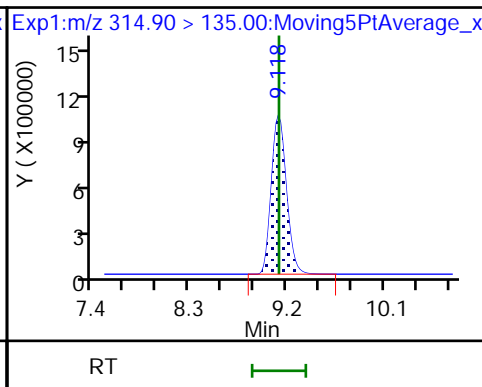
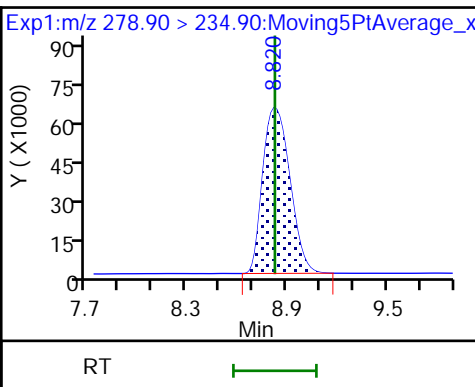
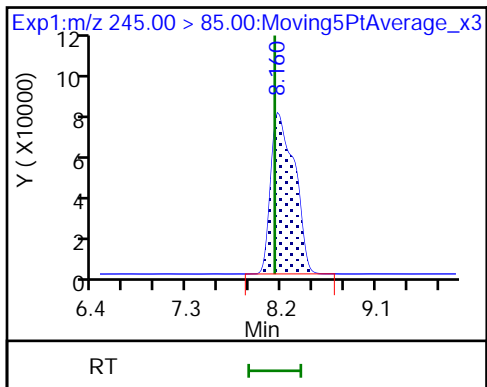
6 NVHOS



7 PFO2HxA

8 PEPA

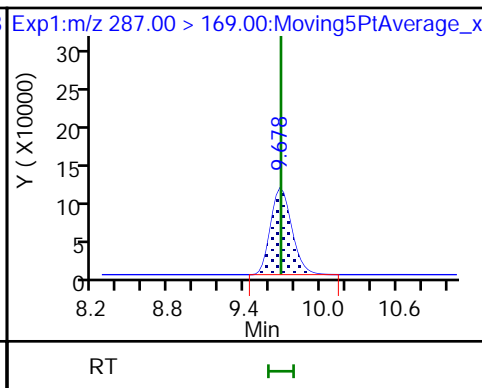
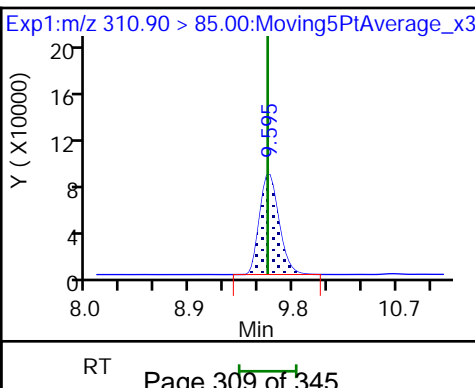
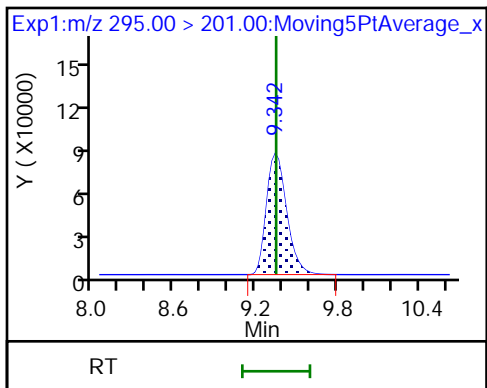
9 PES

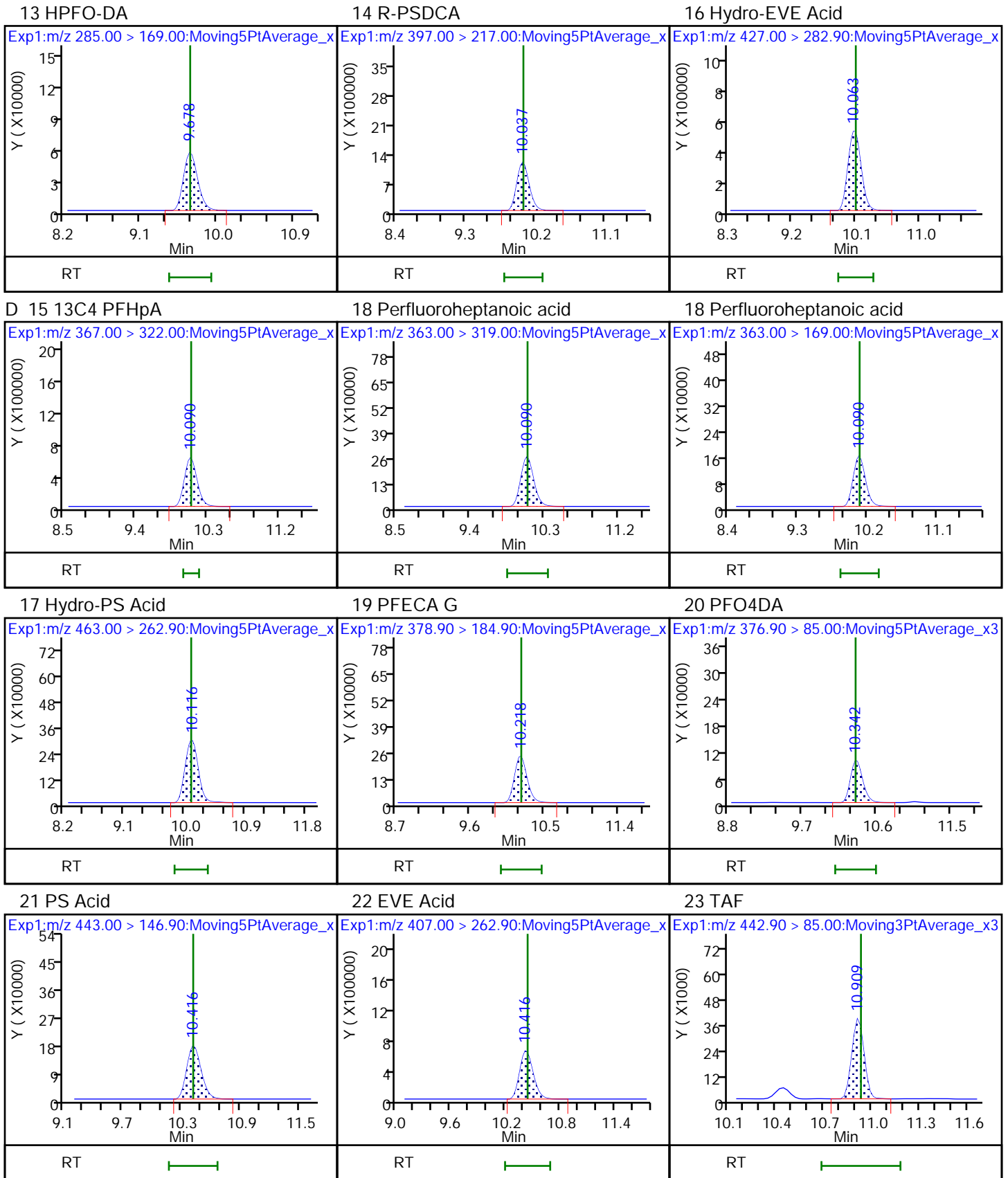


10 PFECA B

11 PFO3OA

D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

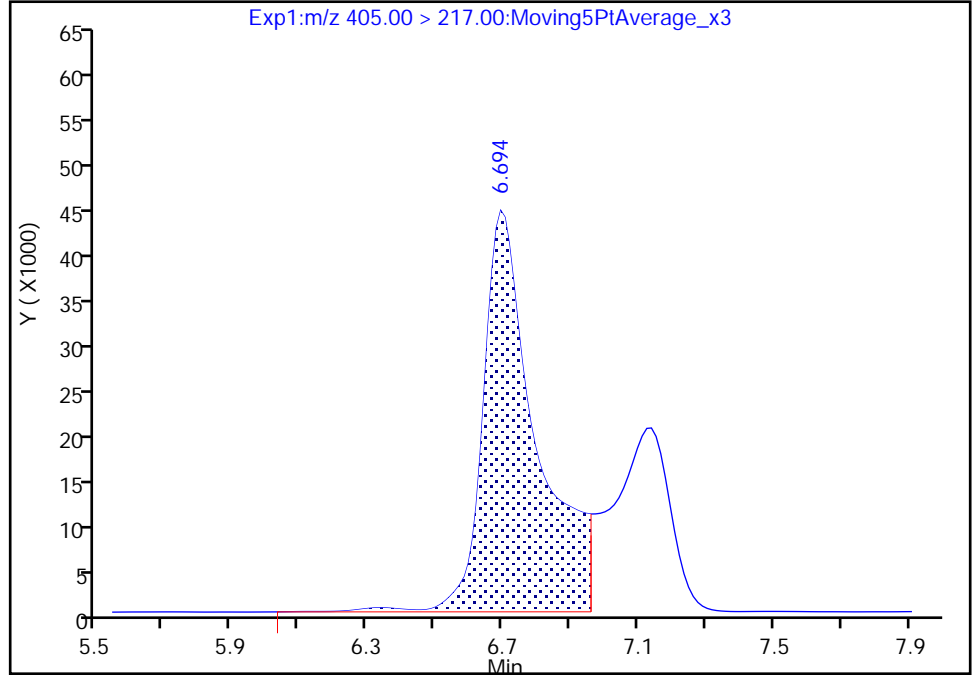
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Injection Date: 31-Jan-2021 02:10:27 Instrument ID: A7\_N  
Lims ID: CCV 387  
Client ID:  
Operator ID: abservice ALS Bottle#: 12 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

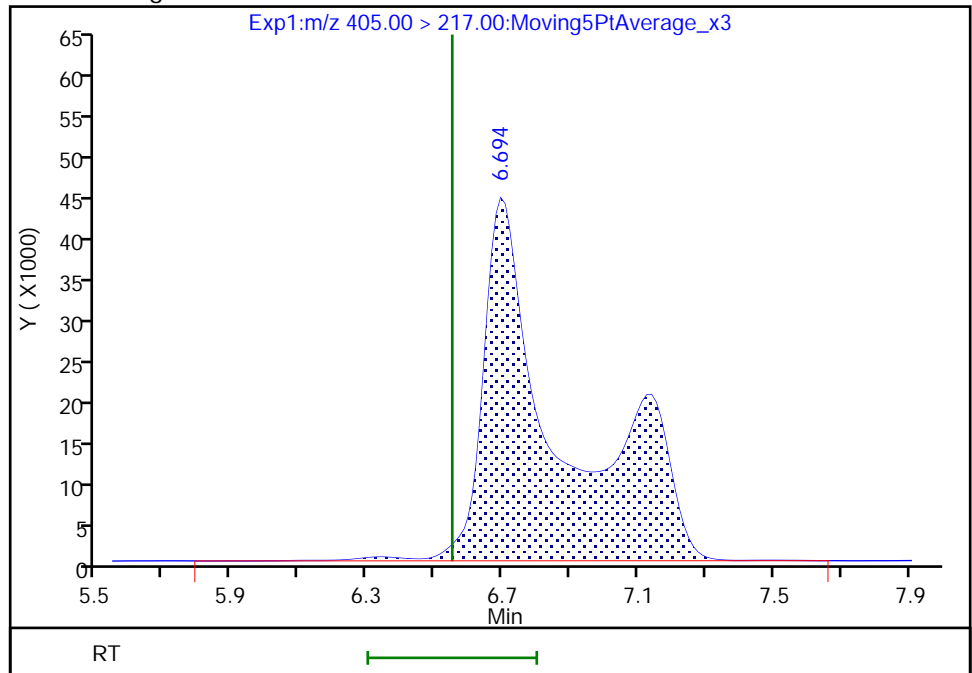
RT: 6.69  
Area: 484498  
Amount: 0.058876  
Amount Units: ng/ml

Processing Integration Results



RT: 6.69  
Area: 721533  
Amount: 0.087680  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 01-Feb-2021 05:09:24  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

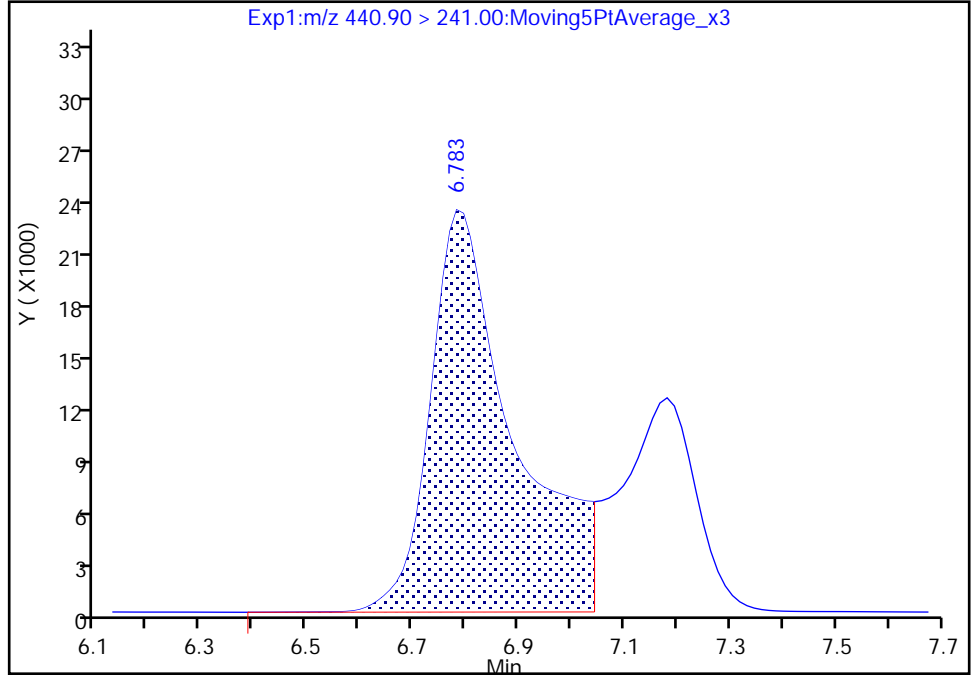
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Injection Date: 31-Jan-2021 02:10:27 Instrument ID: A7\_N  
Lims ID: CCV 387  
Client ID:  
Operator ID: abservice ALS Bottle#: 12 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

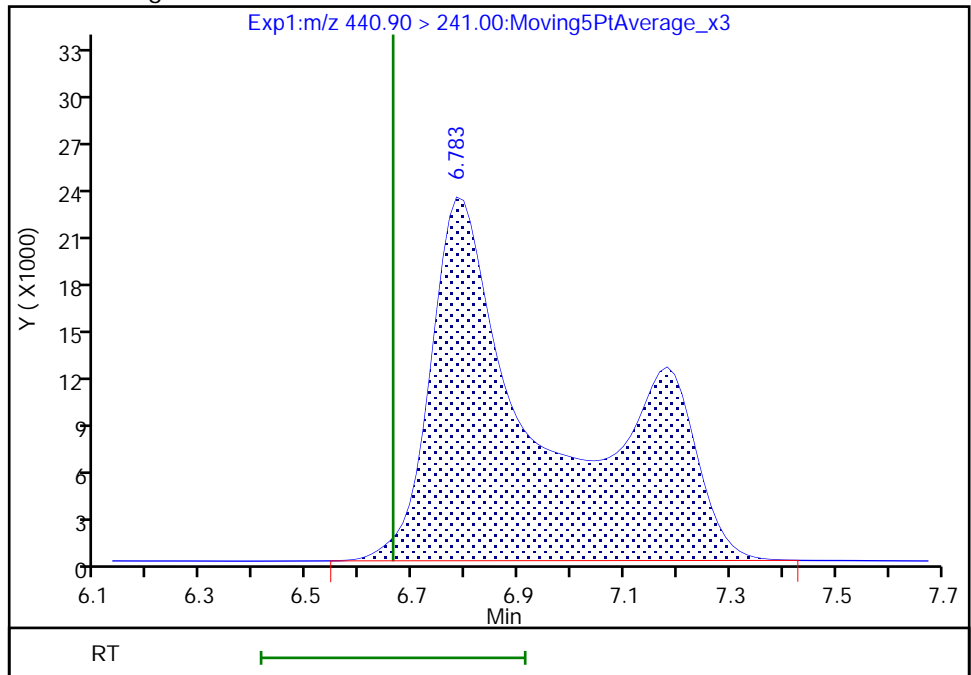
RT: 6.78  
Area: 252902  
Amount: 0.041265  
Amount Units: ng/ml

Processing Integration Results



RT: 6.78  
Area: 371329  
Amount: 0.060588  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 31-Jan-2021 11:43:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

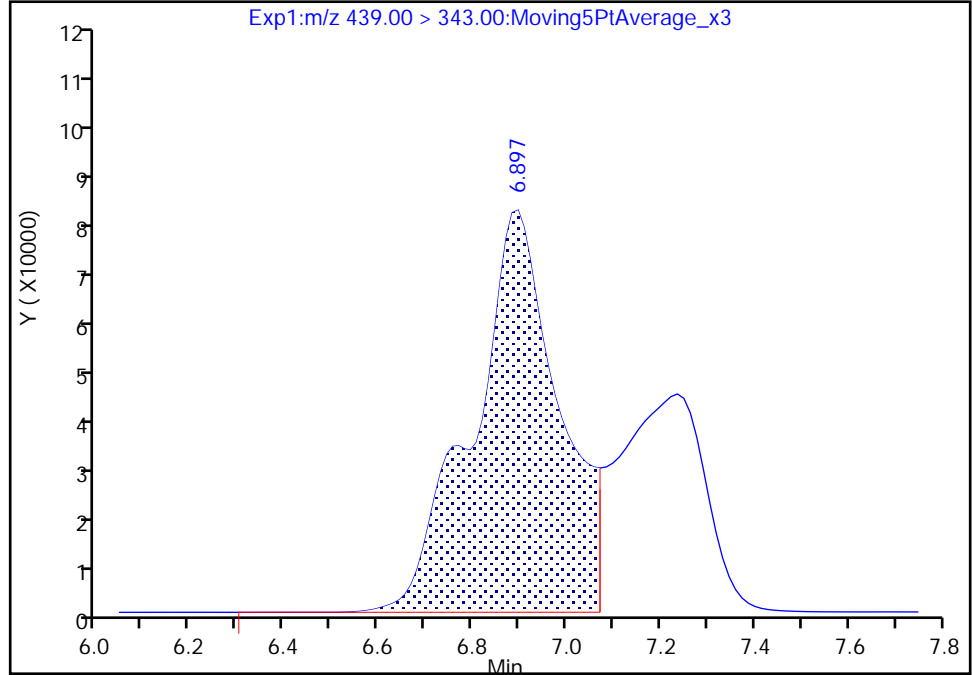
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Injection Date: 31-Jan-2021 02:10:27 Instrument ID: A7\_N  
Lims ID: CCV 387  
Client ID:  
Operator ID: abservice ALS Bottle#: 12 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

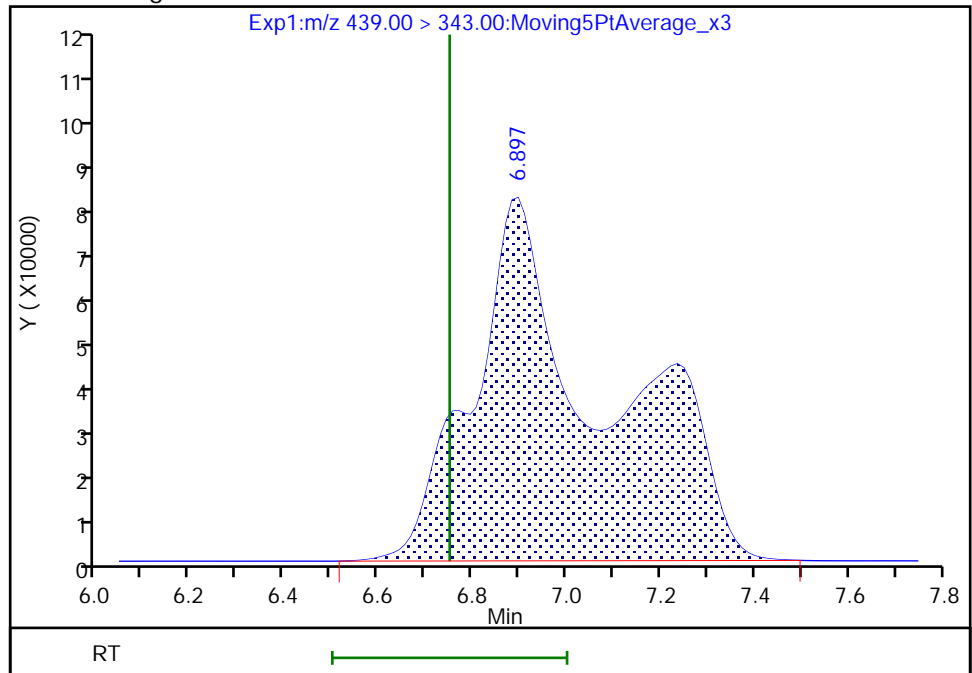
RT: 6.90  
Area: 976092  
Amount: 0.044192  
Amount Units: ng/ml

Processing Integration Results



RT: 6.90  
Area: 1499414  
Amount: 0.067886  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 31-Jan-2021 11:43:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 314 of 345

Eurofins TestAmerica, Sacramento

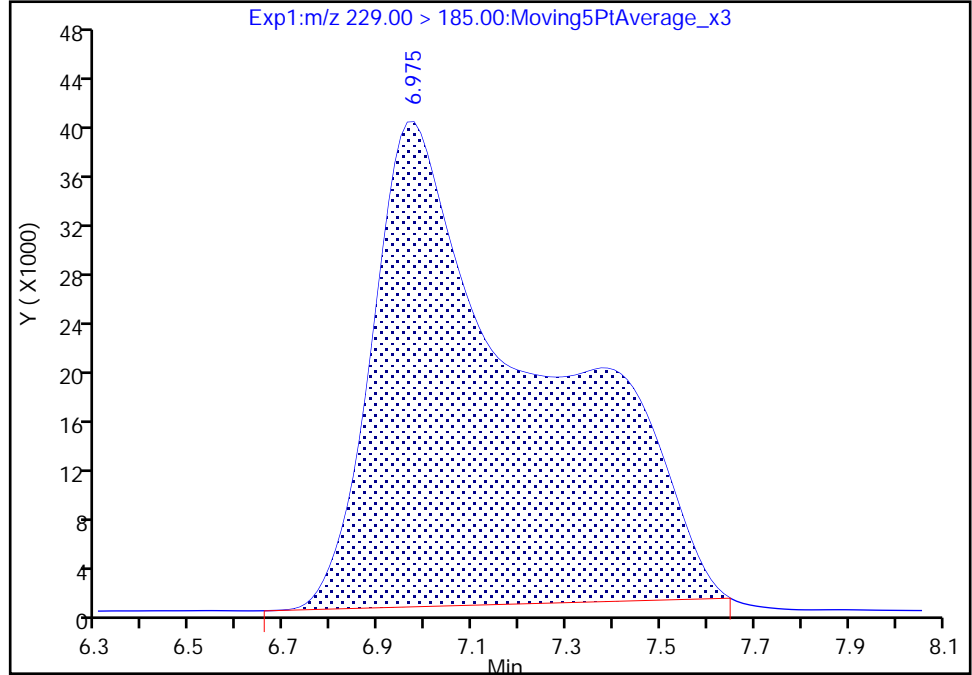
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Injection Date: 31-Jan-2021 02:10:27 Instrument ID: A7\_N  
Lims ID: CCV 387  
Client ID:  
Operator ID: abservice ALS Bottle#: 12 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 PMPA, CAS: 13140-29-9

Signal: 1

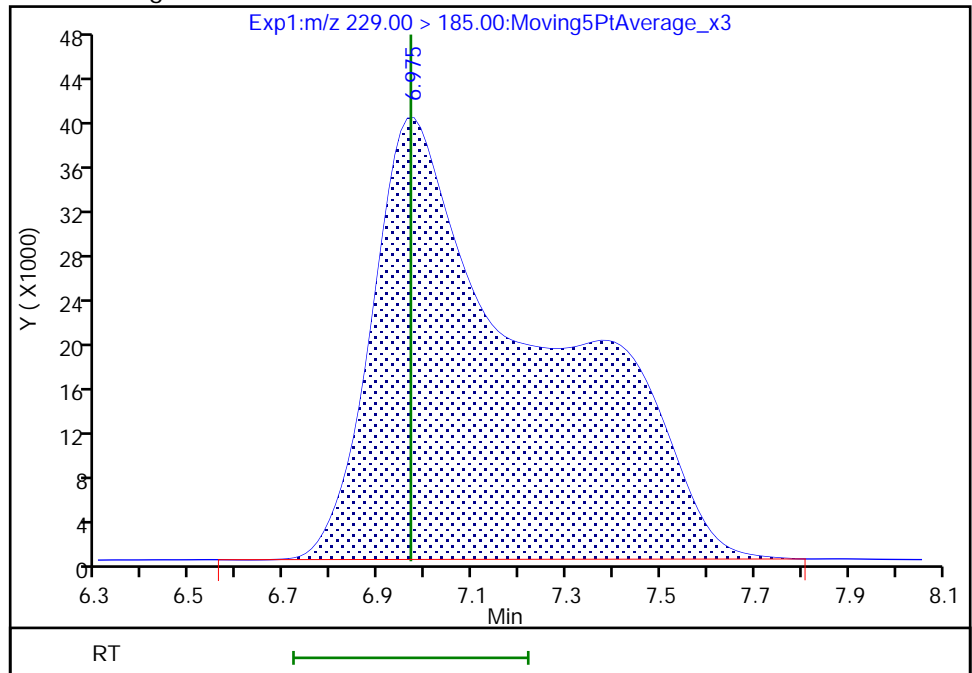
RT: 6.97  
Area: 971663  
Amount: 0.088142  
Amount Units: ng/ml

Processing Integration Results



RT: 6.97  
Area: 1001962  
Amount: 0.090912  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 31-Jan-2021 11:43:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-456552/1-A  
 Matrix: Water Lab File ID: 2021.01.29\_TB3\_A\_009.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/29/2021 16:42  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 456828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.010		0.010	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.020		0.020	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	84		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_009.d  
 Lims ID: MB 320-456552/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 29-Jan-2021 16:42:46 ALS Bottle#: 9 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-456552/1-a (DUE: 2/11)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 05:05:18 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 05:21:08  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 13C3 HFPO-DA	287.00 > 169.00	9.729	9.681	0.048	1294785	0.2094		83.8	36078	
D 15 13C4 PFHpA	367.00 > 322.00	10.135	10.092	0.043	6627533	0.2554		102	205832	

**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_009.d

Injection Date: 29-Jan-2021 16:42:46

Instrument ID: A7\_N

Lims ID: MB 320-456552/1-A

Client ID:

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

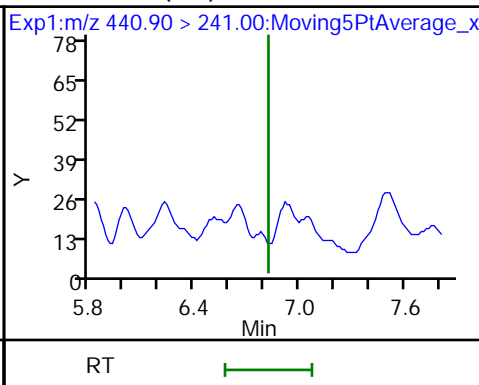
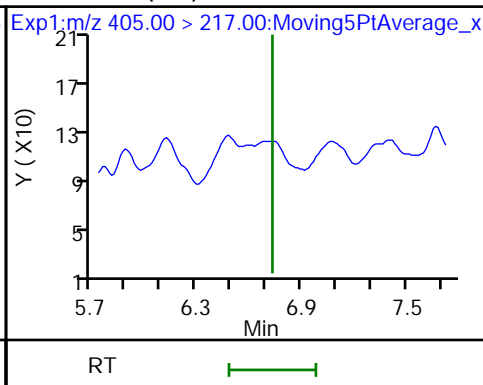
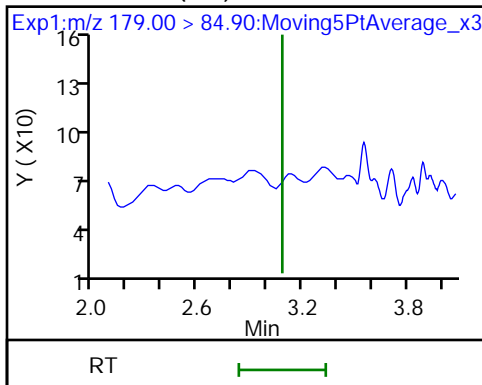
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

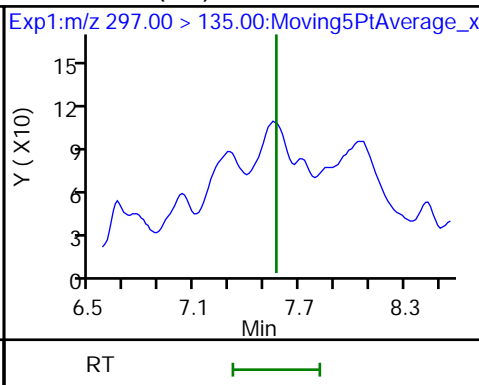
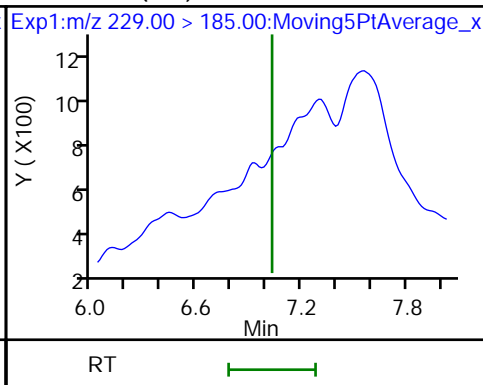
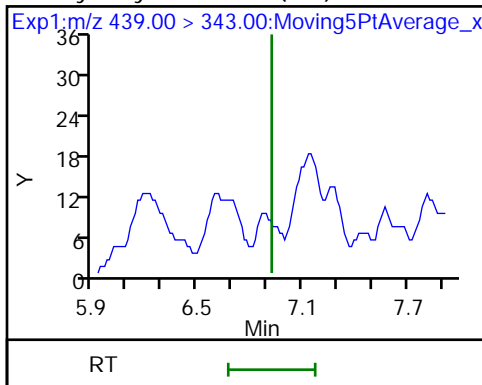
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

5 PMPA (ND)

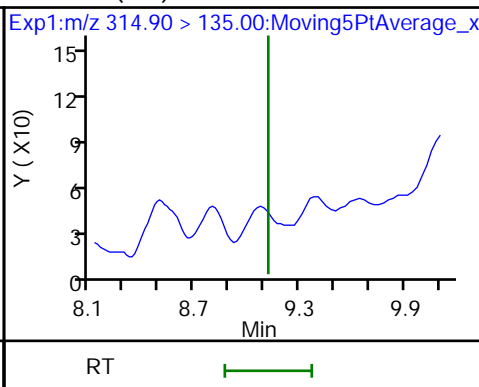
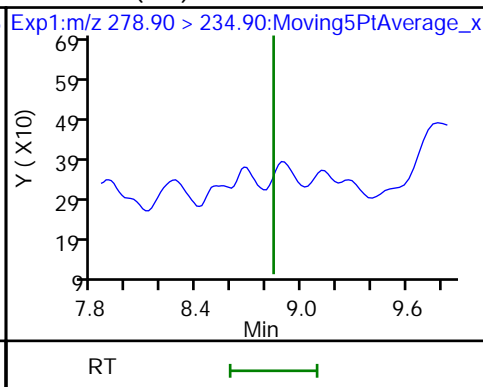
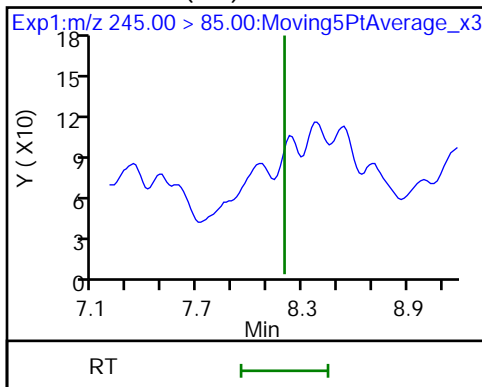
6 NVHOS (ND)



7 PFO2HxA (ND)

8 PEPA (ND)

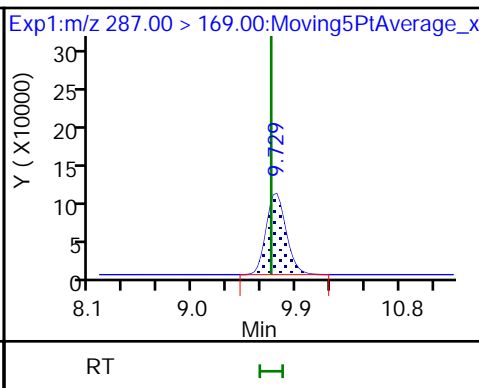
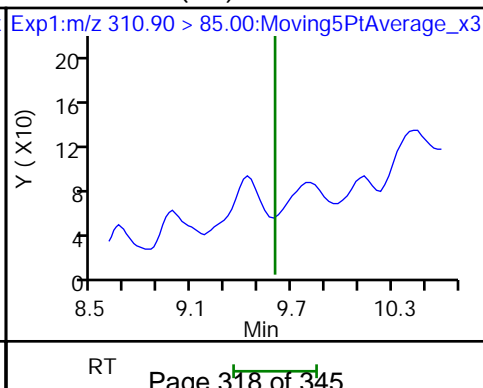
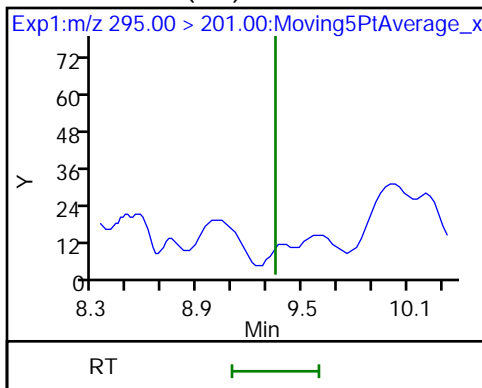
9 PES (ND)

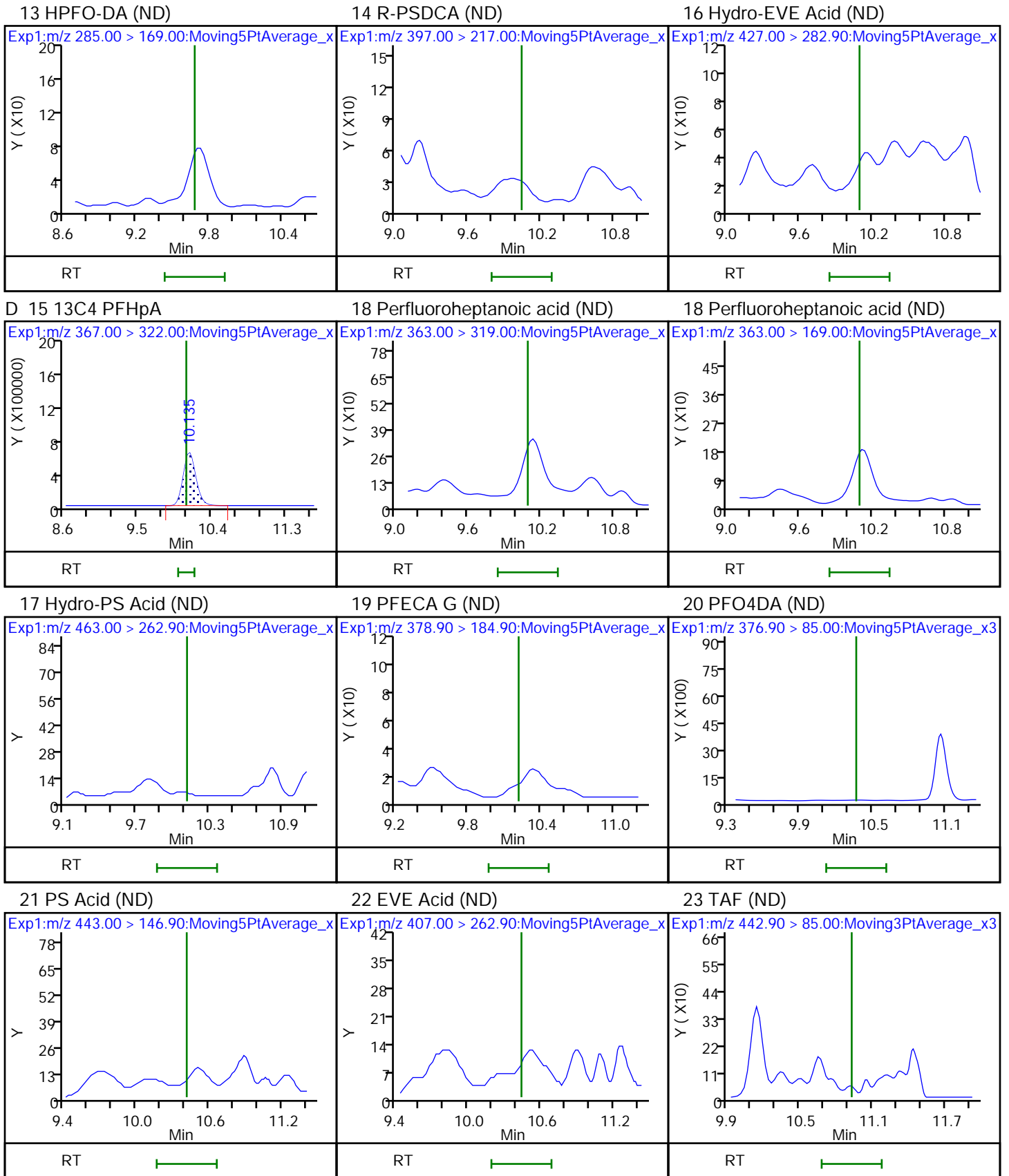


10 PFECA B (ND)

11 PFO3OA (ND)

D 12 13C3 HFPO-DA







FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-456552/2-A  
 Matrix: Water Lab File ID: 2021.01.29\_TB3\_A\_017.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/29/2021 19:03  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 456828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.186		0.0020	
13252-13-6	HFPO-DA	0.205		0.0020	
773804-62-9	Hydro-EVE Acid	0.194		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.165		0.0020	
749836-20-2	Hydro-PS Acid	0.197		0.0020	
1132933-86-8	NVHOS	0.187		0.0020	
267239-61-2	PEPA	0.203		0.010	
113507-82-7	PES	0.210		0.0020	
151772-58-6	PFECA B	0.176		0.0020	
801212-59-9	PFECA G	0.185		0.0020	
674-13-5	PFMOAA	0.175		0.0020	
39492-88-1	PFO2HxA	0.181		0.0020	
39492-89-2	PFO3OA	0.172		0.0020	
39492-90-5	PFO4DA	0.188		0.0020	
39492-91-6	PFO5DA	0.148		0.0020	
13140-29-9	PMPA	0.177		0.020	
29311-67-9	PS Acid	0.210		0.0020	
2416366-22-6	R-EVE	0.207		0.0020	
2416366-18-0	R-PSDA	0.152		0.0020	
2416366-21-5	R-PSDCA	0.196		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	80		25-150



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_017.d  
 Lims ID: LCS 320-456552/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 29-Jan-2021 19:03:17 ALS Bottle#: 17 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-456552/2-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 06:09:14 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 06:09:53  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.224	3.084	0.140		1227096	0.0877		87.7	1004	M
2 R-EVE										
405.00 > 217.00	6.785	6.733	0.052		850470	0.1033		103	7073	
3 R-PSDA										M
440.90 > 241.00	6.874	6.822	0.052		465989	0.0760		76.0	7089	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.963	6.923	0.040		1821012	0.0824		82.4	23116	M
5 PMPA										
229.00 > 185.00	7.073	7.031	0.042		975607	0.0885		88.5	598	
6 NVHOS										
297.00 > 135.00	7.596	7.567	0.029		1647272	0.0934		93.4	10325	
7 PFO2HxA										
245.00 > 85.00	8.216	8.197	0.019		1209226	0.0903		90.3	9560	
8 PEPA										
278.90 > 234.90	8.842	8.840	0.002		739750	0.1015		102	3122	
9 PES										
314.90 > 135.00	9.123	9.120	0.002		8974624	0.1051		105	143640	
10 PFECA B										
295.00 > 201.00	9.347	9.345	0.002		762043	0.0882		88.2	22929	
11 PFO3OA										
310.90 > 85.00	9.574	9.598	-0.024		846543	0.0858		85.8	10073	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.684	9.681	0.003		1238885	0.2004		80.2	34843	
13 HPFO-DA										
285.00 > 169.00	9.684	9.681	0.003	1.000	579781	0.1023		102	16315	
14 R-PSDCA										
397.00 > 217.00	10.044	10.041	0.003		11206749	0.0979		97.9	202434	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid										
427.00 > 282.90	10.071	10.092	-0.022		6083120	0.0971		97.1	94434	
D 15 13C4 PFHpA										
367.00 > 322.00	10.095	10.092	0.003		6853418	0.2641		106	210804	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.095	10.092	0.003	1.000	2852767	0.1011	Target=0.00	101	65760	
363.00 > 169.00	10.095	10.092	0.003	1.000	1744704		1.64(0.00-0.00)		53660	
17 Hydro-PS Acid										
463.00 > 262.90	10.120	10.117	0.003		3608016	0.0987		98.7	89252	
19 PFECA G										
378.90 > 184.90	10.219	10.216	0.003		2246975	0.0923		92.3	71630	
20 PFO4DA										
376.90 > 85.00	10.343	10.365	-0.022		792078	0.0938		93.8	6372	
21 PS Acid										
443.00 > 146.90	10.418	10.414	0.004		1674557	0.1050		105	54804	
22 EVE Acid										
407.00 > 262.90	10.418	10.439	-0.021		5877345	0.0929		92.9	142438	
23 TAF										
442.90 > 85.00	10.929	10.927	0.002		182778	0.0741		74.1	873	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_017.d

Injection Date: 29-Jan-2021 19:03:17

Instrument ID: A7\_N

Lims ID: LCS 320-456552/2-A

Client ID:

Operator ID: abservice

ALS Bottle#: 17

Worklist Smp#: 11

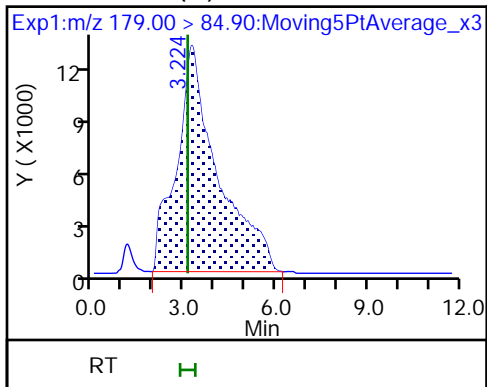
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

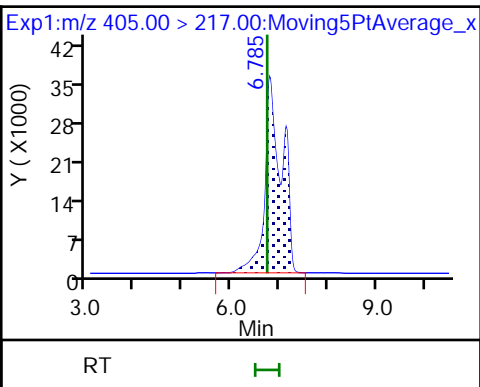
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

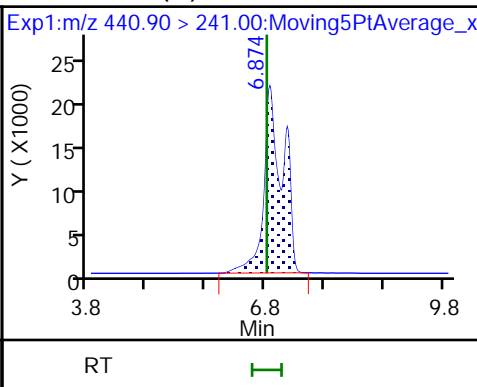
1 PFMOAA (M)



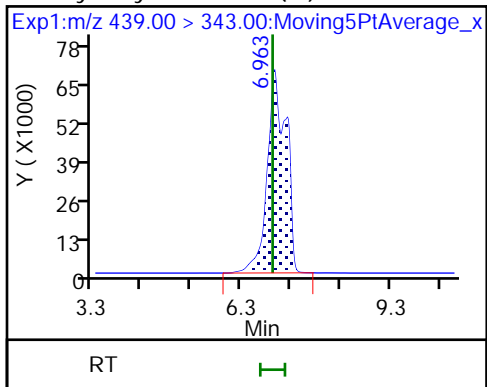
2 R-EVE



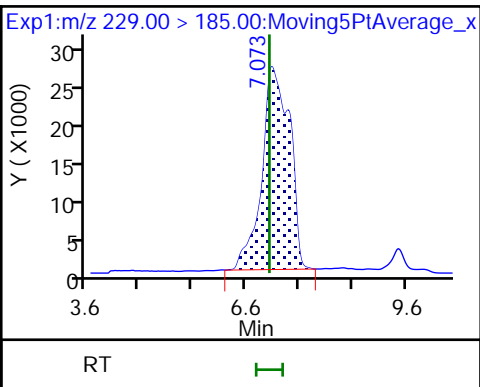
3 R-PSDA (M)



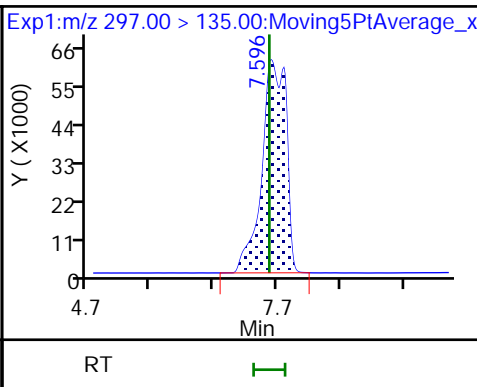
4 Hydrolyzed PSDA (M)



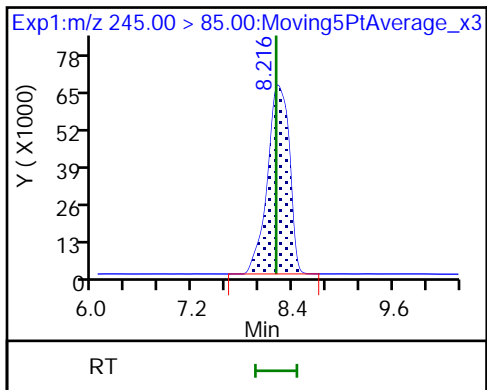
5 PMPA



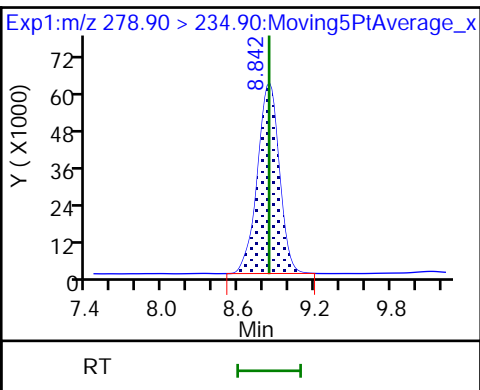
6 NVHOS



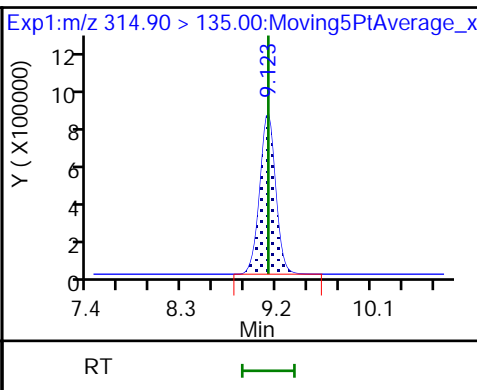
7 PFO2HxA



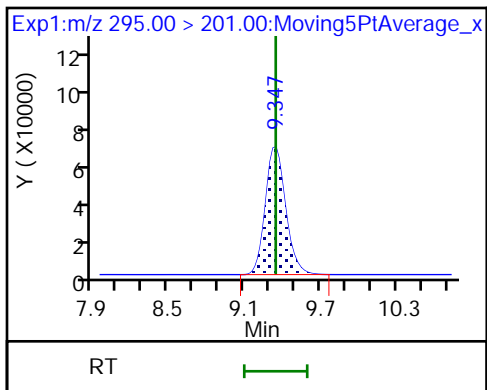
8 PEPA



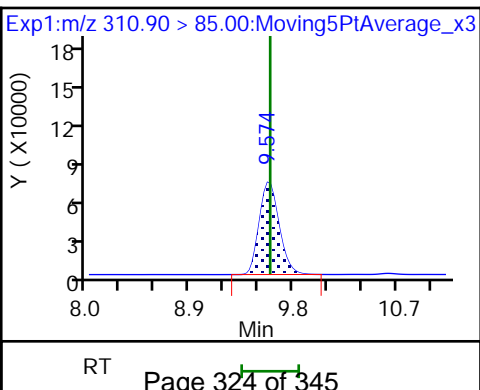
9 PES



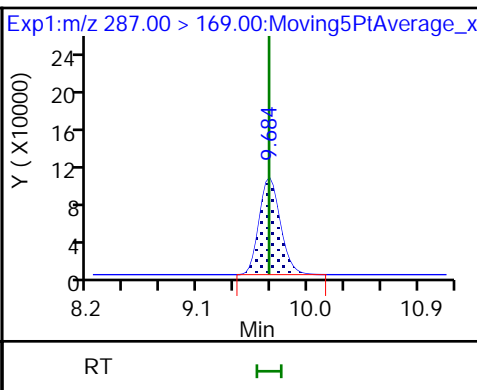
10 PFECA B

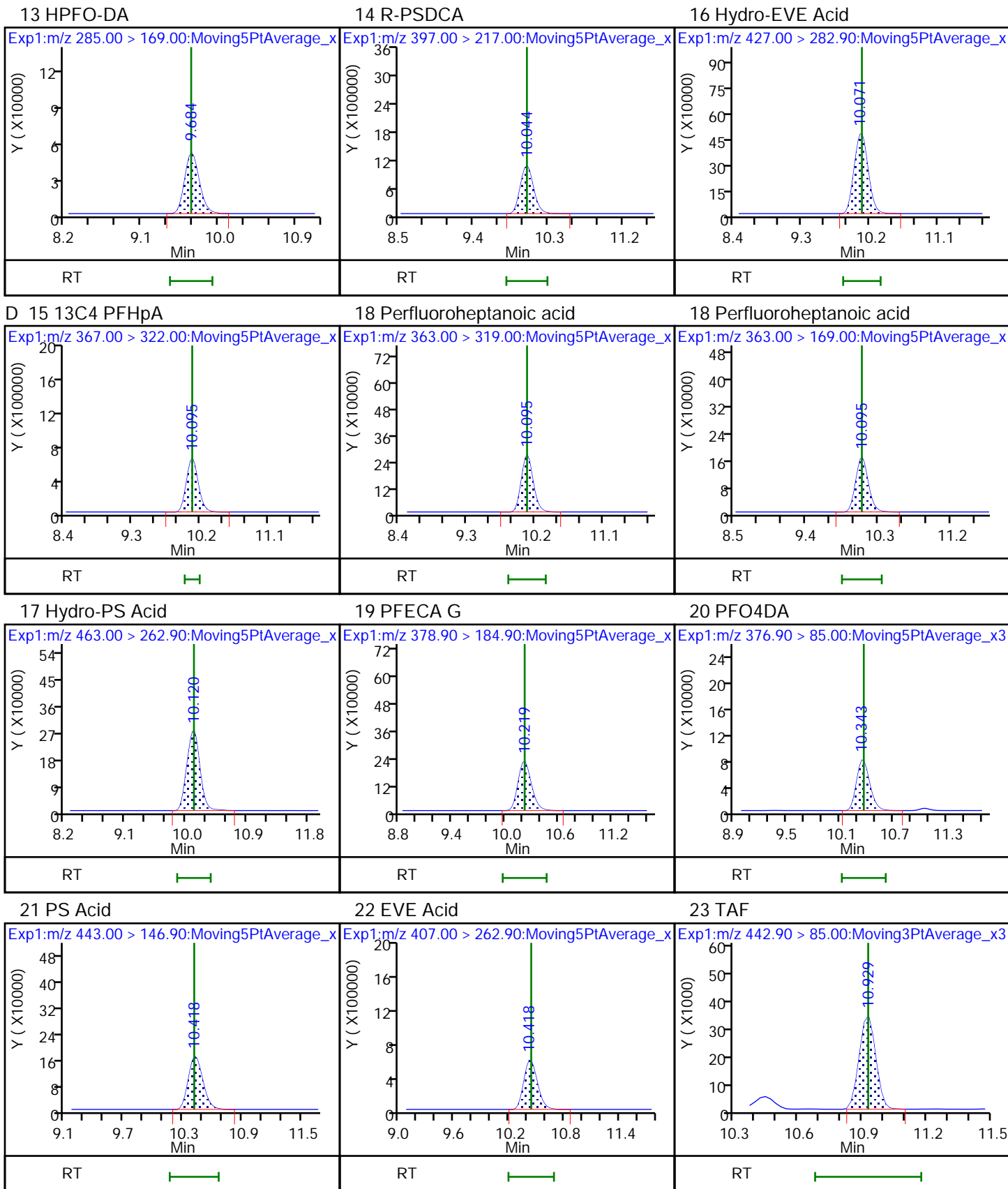


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

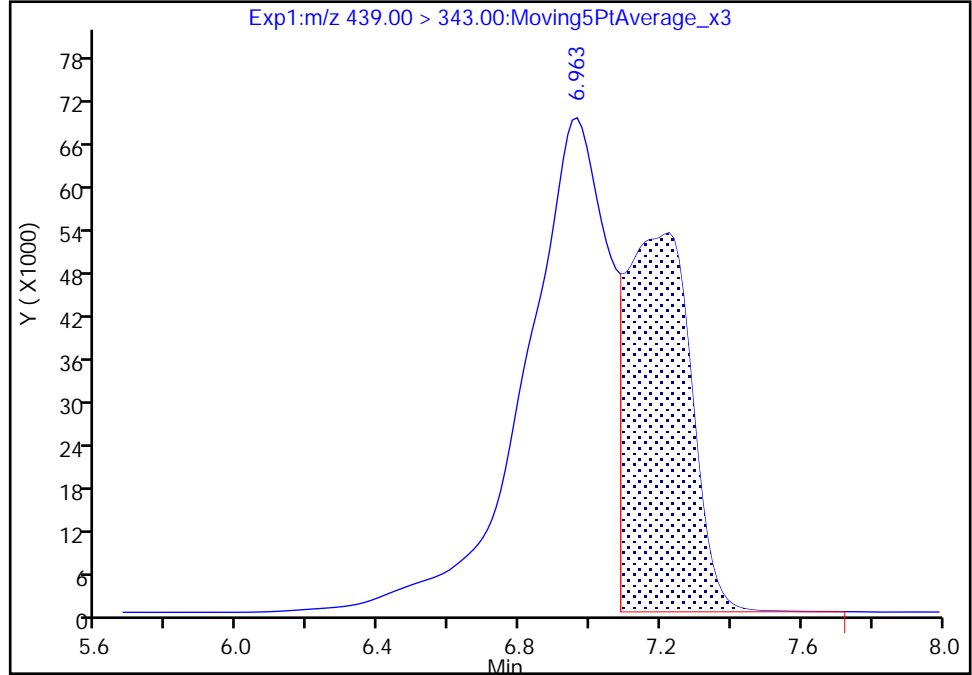
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_017.d  
Injection Date: 29-Jan-2021 19:03:17 Instrument ID: A7\_N  
Lims ID: LCS 320-456552/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 17 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

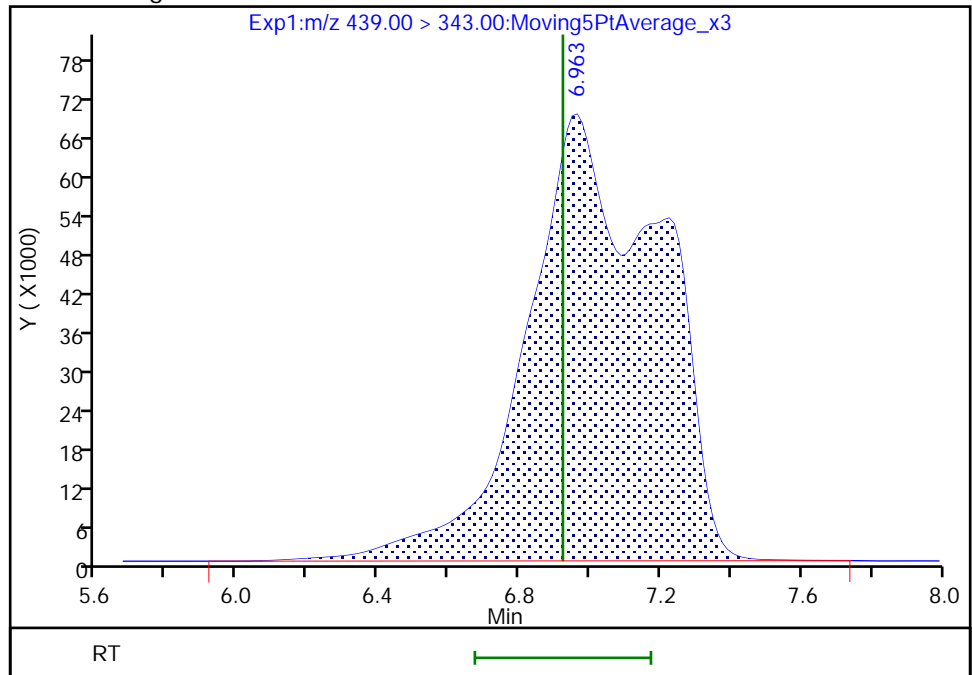
RT: 6.96  
Area: 671773  
Amount: 0.030414  
Amount Units: ng/ml

Processing Integration Results



RT: 6.96  
Area: 1821012  
Amount: 0.082446  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:39:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

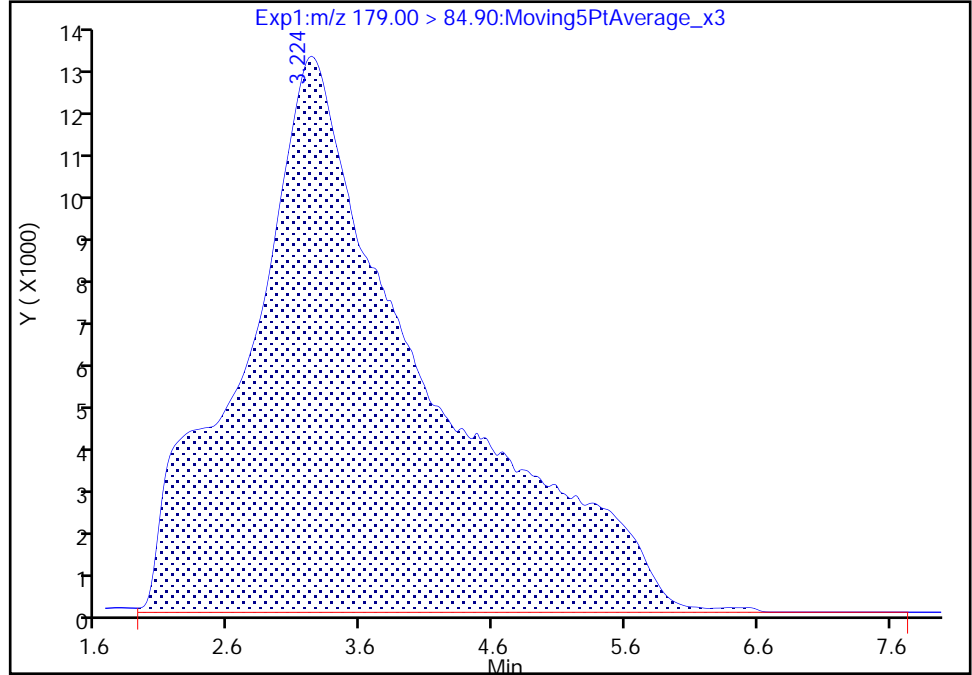
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_017.d  
Injection Date: 29-Jan-2021 19:03:17 Instrument ID: A7\_N  
Lims ID: LCS 320-456552/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 17 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

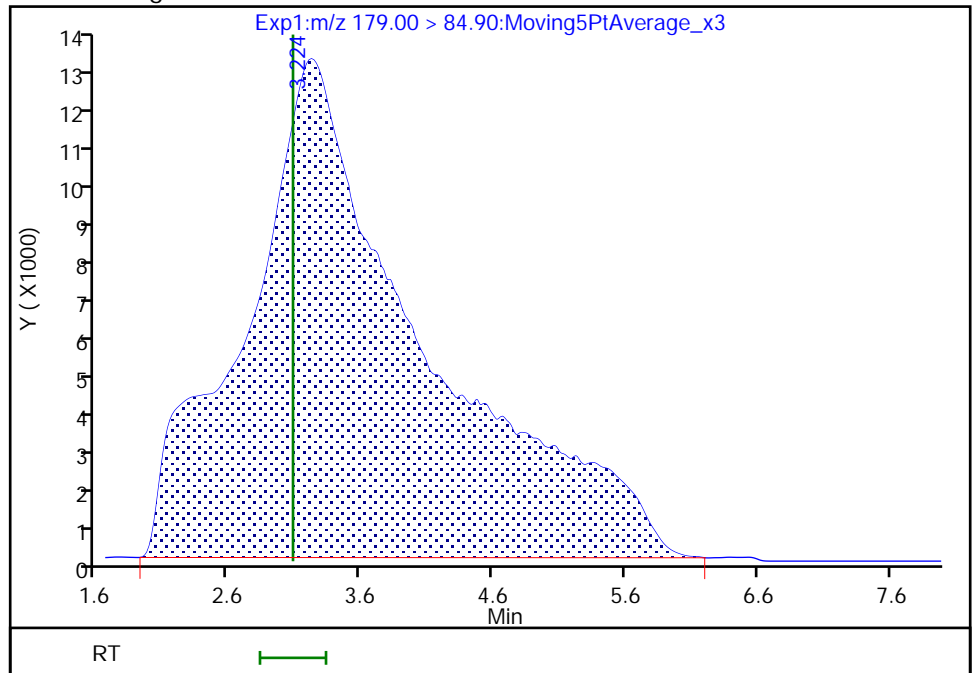
RT: 3.22  
Area: 1253641  
Amount: 0.089576  
Amount Units: ng/ml

Processing Integration Results



RT: 3.22  
Area: 1227096  
Amount: 0.087680  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:39:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

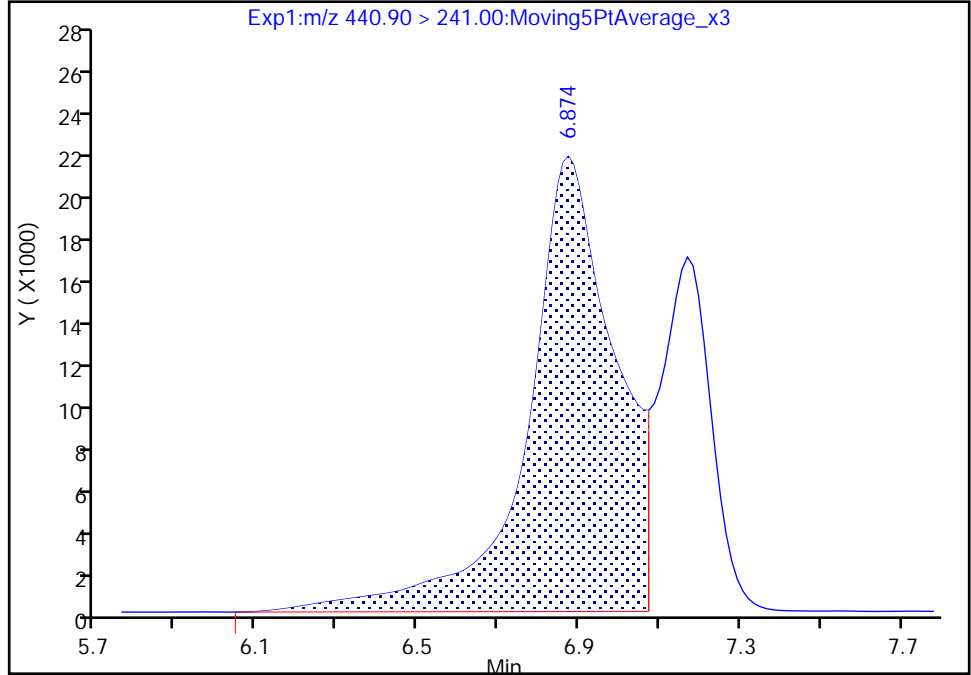
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_017.d  
Injection Date: 29-Jan-2021 19:03:17 Instrument ID: A7\_N  
Lims ID: LCS 320-456552/2-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 17 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

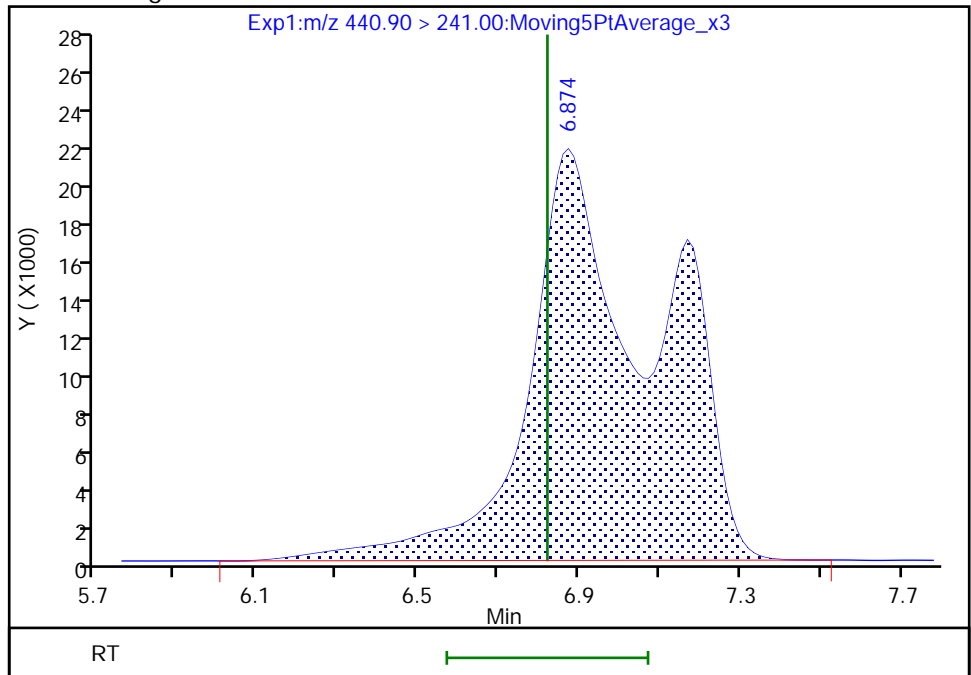
RT: 6.87  
Area: 323578  
Amount: 0.052797  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 465989  
Amount: 0.076033  
Amount Units: ng/ml

Manual Integration Results





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-456552/3-A  
 Matrix: Water Lab File ID: 2021.01.29\_TB3\_A\_018.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 01/28/2021 18:56  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 01/29/2021 19:20  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 456828 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.193		0.0020	
13252-13-6	HFPO-DA	0.200		0.0020	
773804-62-9	Hydro-EVE Acid	0.194		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.180		0.0020	
749836-20-2	Hydro-PS Acid	0.202		0.0020	
1132933-86-8	NVHOS	0.191		0.0020	
267239-61-2	PEPA	0.208		0.010	
113507-82-7	PES	0.207		0.0020	
151772-58-6	PFECA B	0.189		0.0020	
801212-59-9	PFECA G	0.184		0.0020	
674-13-5	PFMOAA	0.172		0.0020	
39492-88-1	PFO2HxA	0.188		0.0020	
39492-89-2	PFO3OA	0.183		0.0020	
39492-90-5	PFO4DA	0.177		0.0020	
39492-91-6	PFO5DA	0.165		0.0020	
13140-29-9	PMPA	0.185		0.020	
29311-67-9	PS Acid	0.204		0.0020	
2416366-22-6	R-EVE	0.212		0.0020	
2416366-18-0	R-PSDA	0.164		0.0020	
2416366-21-5	R-PSDCA	0.204		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	86		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_018.d  
 Lims ID: LCSD 320-456552/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 29-Jan-2021 19:20:49 ALS Bottle#: 18 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-456552/3-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: abservice Instrument ID: A7\_N  
 Method: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\PFAS\_ChemoursP.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 01-Feb-2021 06:09:14 Calib Date: 15-Jan-2021 19:19:01  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A7\_N\20210115-111409.b\2021.01.15.\_A7\_TB3\_A\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1647

First Level Reviewer: ruangyotsakuld Date: 01-Feb-2021 06:10:05  
 Ratio Calibration: Initial Calibration Level: 1

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.118	3.084	0.034		1205011	0.0861		86.1	1203	M
2 R-EVE										M
405.00 > 217.00	6.796	6.733	0.063		873883	0.1062		106	7452	M
3 R-PSDA										M
440.90 > 241.00	6.872	6.822	0.050		502660	0.0820		82.0	7678	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.961	6.923	0.038		1984871	0.0899		89.9	24696	
5 PMPA										
229.00 > 185.00	7.044	7.031	0.013		1018941	0.0925		92.5	915	
6 NVHOS										
297.00 > 135.00	7.580	7.567	0.013		1685576	0.0956		95.6	14019	
7 PFO2HxA										
245.00 > 85.00	8.212	8.197	0.015		1261193	0.0941		94.1	11836	
8 PEPA										
278.90 > 234.90	8.846	8.840	0.006		758325	0.1041		104	3382	
9 PES										
314.90 > 135.00	9.129	9.120	0.009		8845092	0.1036		104	153160	
10 PFECA B										
295.00 > 201.00	9.357	9.345	0.012		817067	0.0946		94.6	25702	
11 PFO3OA										
310.90 > 85.00	9.614	9.598	0.016		904687	0.0917		91.7	12737	
D 12 13C3 HFPO-DA										
287.00 > 169.00	9.697	9.681	0.016		1331335	0.2153		86.1	38031	
13 HPFO-DA										
285.00 > 169.00	9.697	9.681	0.016	1.000	607622	0.0998		99.8	17331	
14 R-PSDCA										
397.00 > 217.00	10.055	10.041	0.014		11685812	0.1021		102	175704	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Hydro-EVE Acid										
427.00 > 282.90	10.107	10.092	0.015		6091144	0.0972		97.2	94664	
D 15 13C4 PFHpA										
367.00 > 322.00	10.107	10.092	0.015		6617879	0.2550		102	201982	
18 Perfluoroheptanoic acid										
363.00 > 319.00	10.107	10.092	0.015	1.000	2714870	0.0997	Target=0.00	99.7	62019	
363.00 > 169.00	10.107	10.092	0.015	1.000	1649711		1.65(0.00-0.00)		50314	
17 Hydro-PS Acid										
463.00 > 262.90	10.134	10.117	0.017		3700839	0.1012		101	90926	
19 PFECA G										
378.90 > 184.90	10.237	10.216	0.021		2242584	0.0921		92.1	71245	
20 PFO4DA										
376.90 > 85.00	10.386	10.365	0.021		745153	0.0883		88.3	7207	
21 PS Acid										
443.00 > 146.90	10.460	10.414	0.046		1623084	0.1018		102	52112	
22 EVE Acid										
407.00 > 262.90	10.460	10.439	0.021		6122072	0.0967		96.7	148306	
23 TAF										
442.90 > 85.00	10.957	10.927	0.030		202954	0.0823		82.3	1026	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_018.d

Injection Date: 29-Jan-2021 19:20:49 Instrument ID: A7\_N

Lims ID: LCSD 320-456552/3-A

Client ID:

Operator ID: abservice

ALS Bottle#: 18

Worklist Smp#: 12

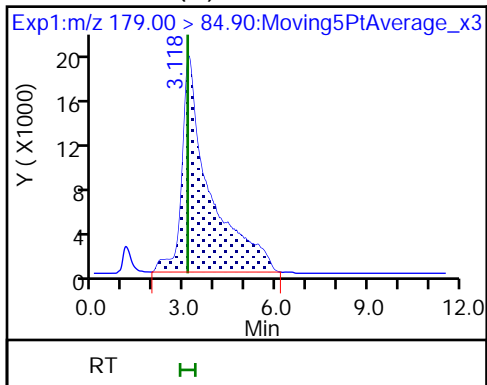
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

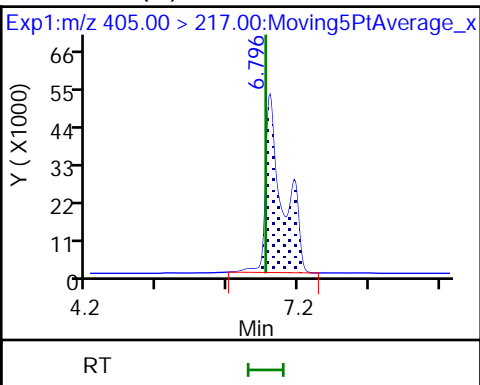
Method: PFAS\_ChemoursP

Limit Group: LC PFAS\_TB3P - ICAL

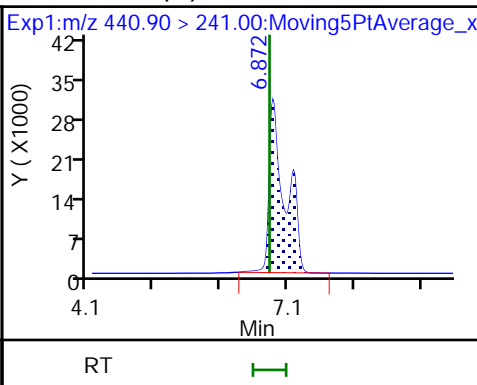
1 PFMOAA (M)



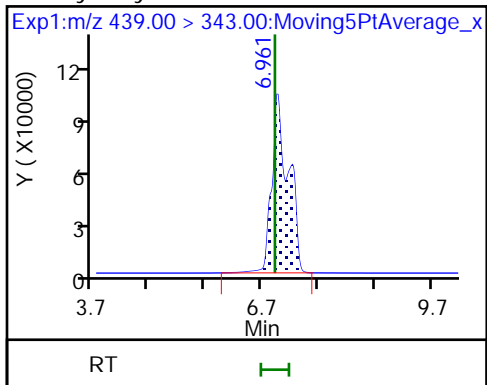
2 R-EVE (M)



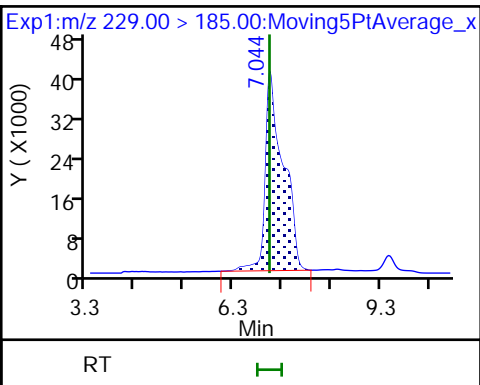
3 R-PSDA (M)



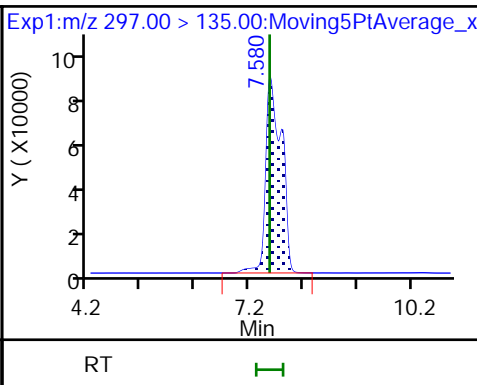
4 Hydrolyzed PSDA



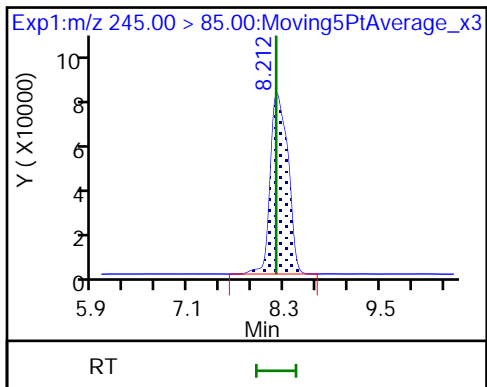
5 PMPA



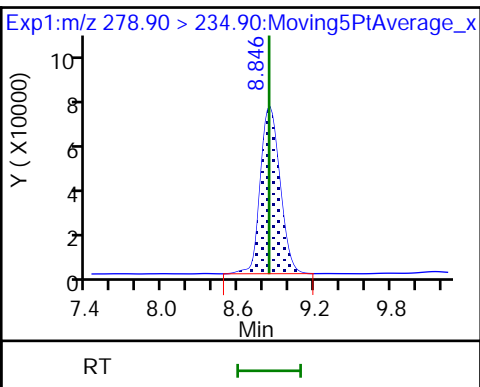
6 NVHOS



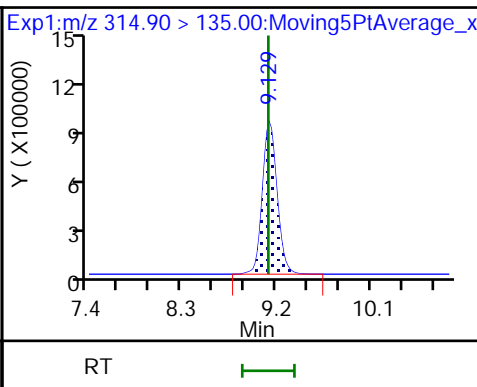
7 PFO2HxA



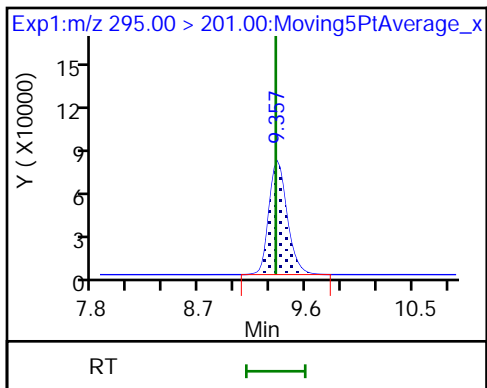
8 PEPA



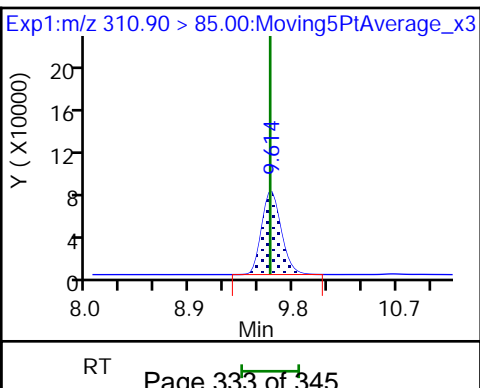
9 PES



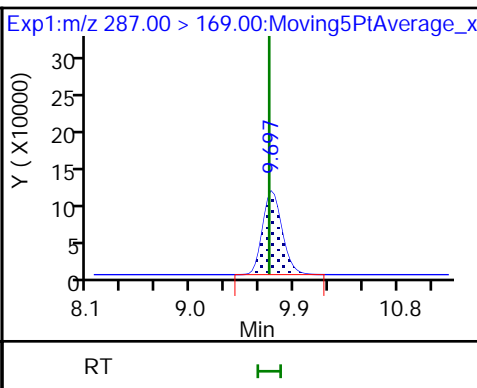
10 PFECA B

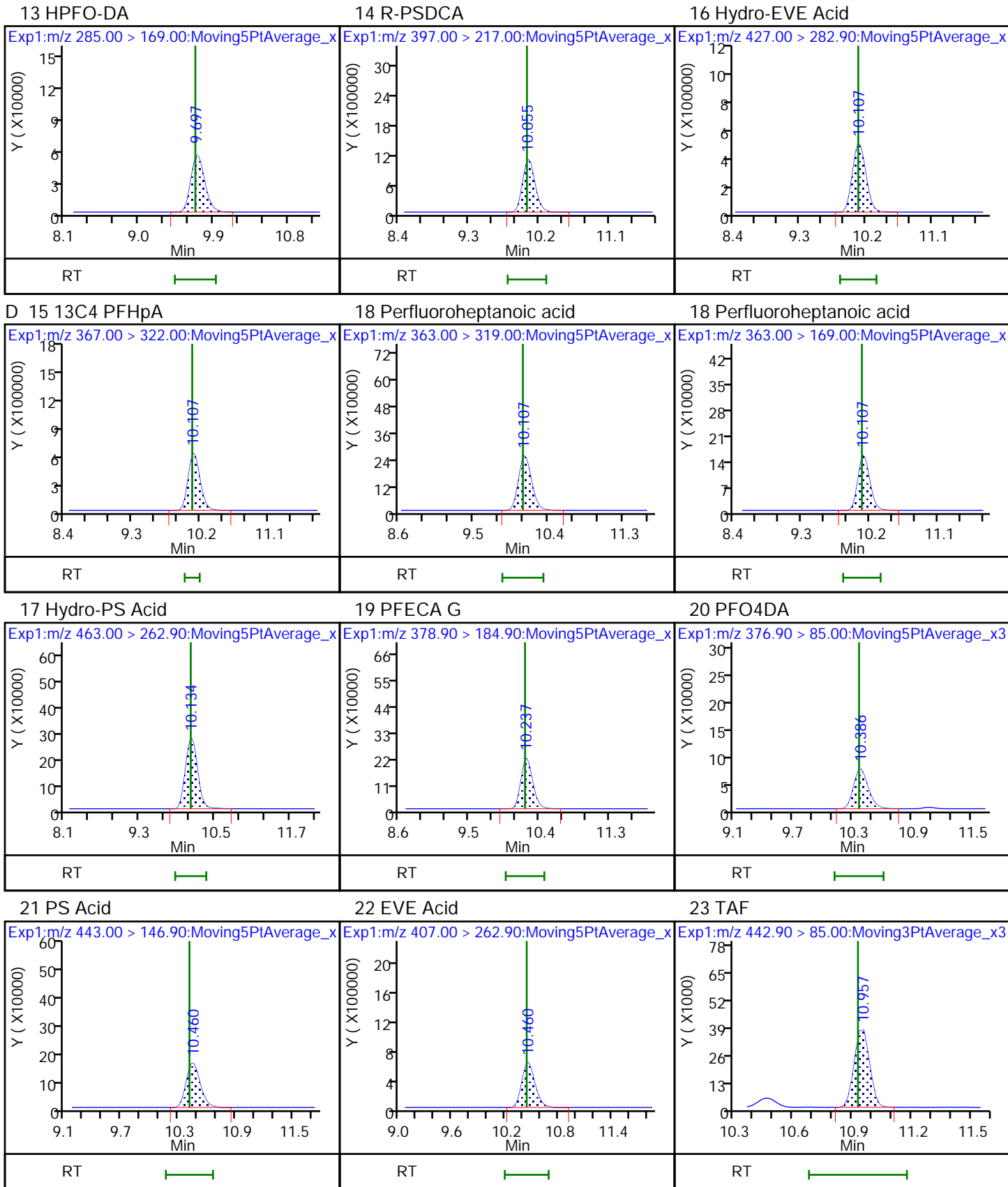


11 PFO3OA



D 12 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

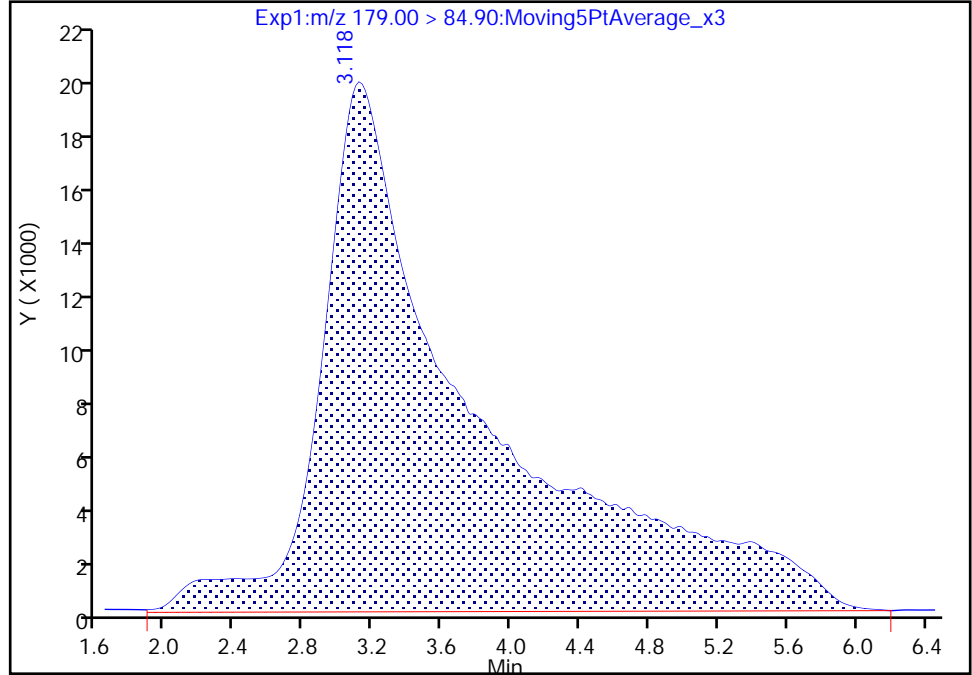
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_018.d  
Injection Date: 29-Jan-2021 19:20:49 Instrument ID: A7\_N  
Lims ID: LCSD 320-456552/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

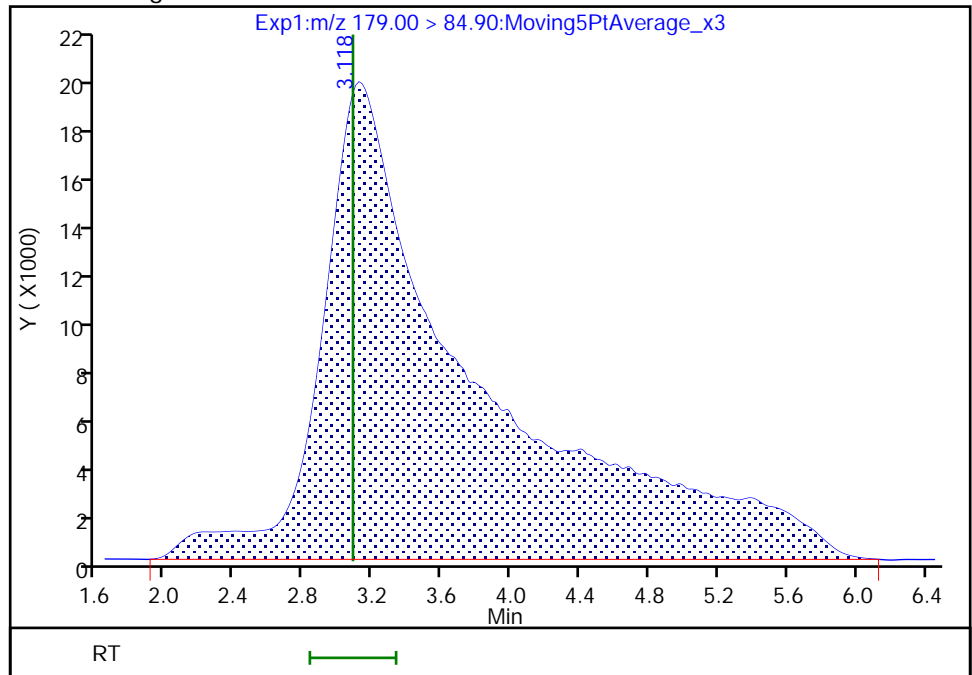
RT: 3.12  
Area: 1220723  
Amount: 0.087224  
Amount Units: ng/ml

Processing Integration Results



RT: 3.12  
Area: 1205011  
Amount: 0.086102  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:40:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

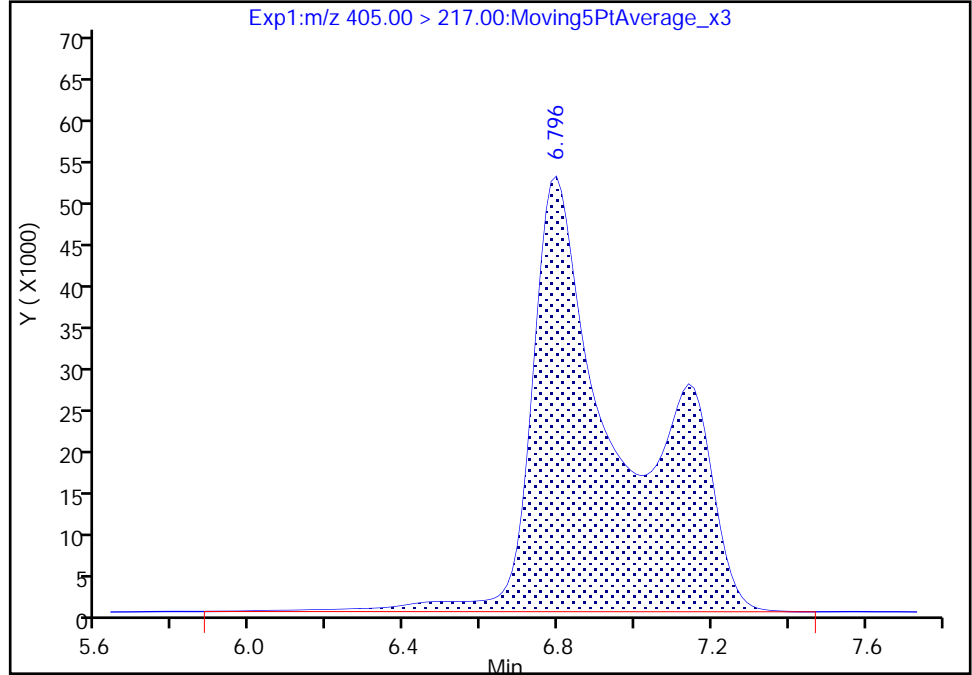
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_018.d  
Injection Date: 29-Jan-2021 19:20:49 Instrument ID: A7\_N  
Lims ID: LCSD 320-456552/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

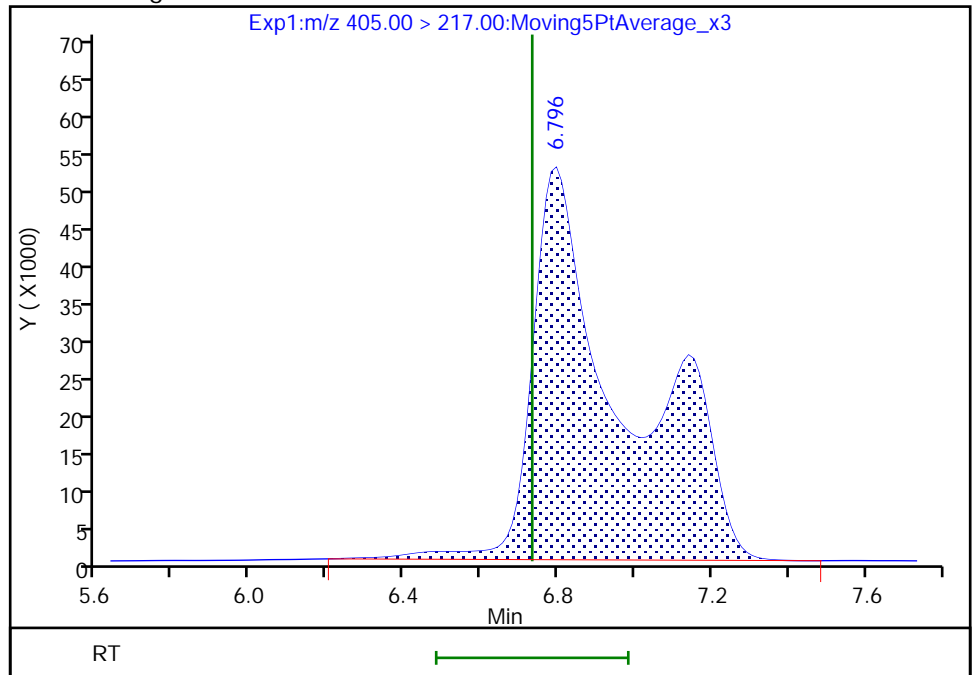
RT: 6.80  
Area: 884291  
Amount: 0.107458  
Amount Units: ng/ml

Processing Integration Results



RT: 6.80  
Area: 873883  
Amount: 0.106193  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:40:30  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

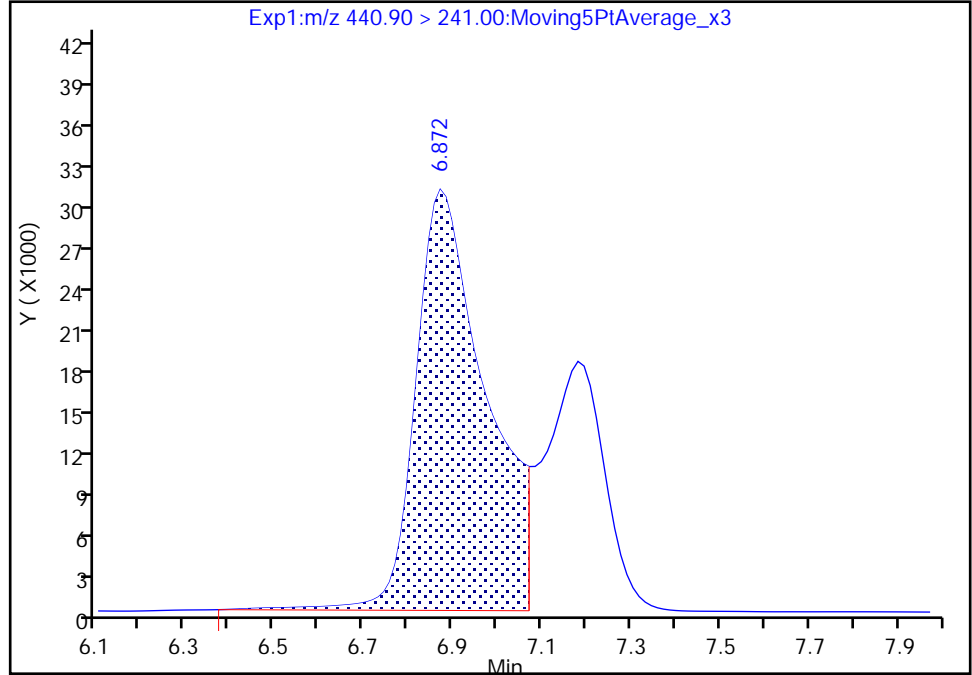
Data File: \\chromfs\Sacramento\ChromData\A7\_N\20210129-112306.b\2021.01.29\_TB3\_A\_018.d  
Injection Date: 29-Jan-2021 19:20:49 Instrument ID: A7\_N  
Lims ID: LCSD 320-456552/3-A  
Client ID:  
Operator ID: abservice ALS Bottle#: 18 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_ChemoursP Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

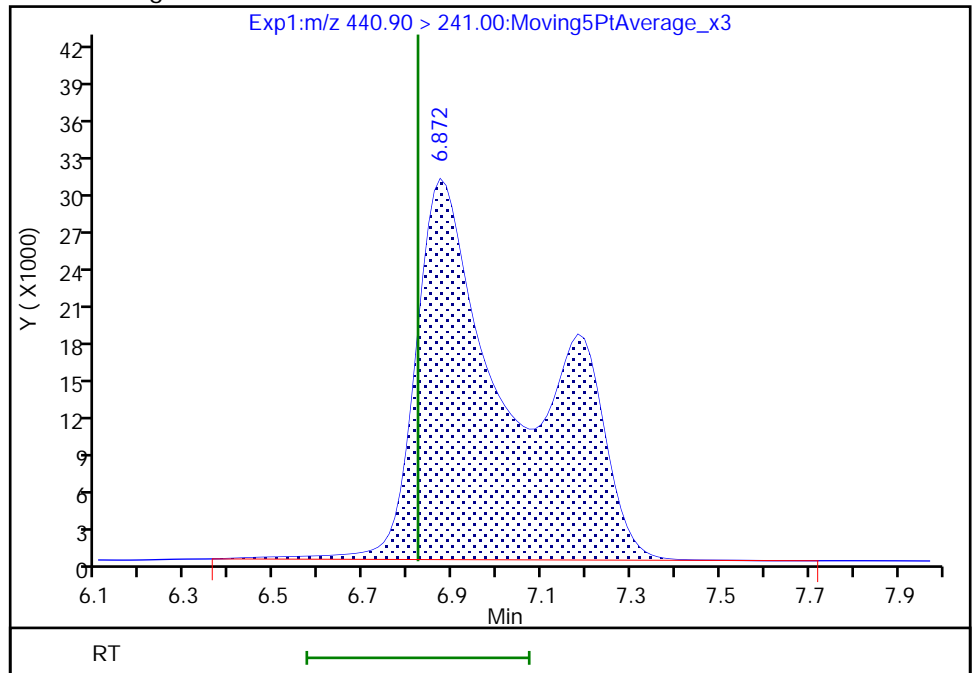
RT: 6.87  
Area: 334986  
Amount: 0.054658  
Amount Units: ng/ml

Processing Integration Results



RT: 6.87  
Area: 502660  
Amount: 0.082017  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kurilyaki, 30-Jan-2021 09:40:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 338 of 345

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 01/15/2021 16:23

Analysis Batch Number: 452203 End Date: 01/15/2021 19:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-452203/2		01/15/2021 16:23	1	2021.01.15._A7_TB3_A_ICAL_004.d	GeminiC18 3x100 3(mm)
IC 320-452203/3		01/15/2021 16:40	1	2021.01.15._A7_TB3_A_ICAL_005.d	GeminiC18 3x100 3(mm)
IC 320-452203/4		01/15/2021 16:58	1	2021.01.15._A7_TB3_A_ICAL_006.d	GeminiC18 3x100 3(mm)
IC 320-452203/5		01/15/2021 17:15	1	2021.01.15._A7_TB3_A_ICAL_007.d	GeminiC18 3x100 3(mm)
IC 320-452203/6		01/15/2021 17:33	1	2021.01.15._A7_TB3_A_ICAL_008.d	GeminiC18 3x100 3(mm)
IC 320-452203/7		01/15/2021 17:51	1	2021.01.15._A7_TB3_A_ICAL_009.d	GeminiC18 3x100 3(mm)
IC 320-452203/8		01/15/2021 18:08	1	2021.01.15._A7_TB3_A_ICAL_010.d	GeminiC18 3x100 3(mm)
IC 320-452203/9		01/15/2021 18:26	1	2021.01.15._A7_TB3_A_ICAL_011.d	GeminiC18 3x100 3(mm)
IC 320-452203/11		01/15/2021 19:01	1	2021.01.15._A7_TB3_A_ICAL_013.d	GeminiC18 3x100 3(mm)
IC 320-452203/12		01/15/2021 19:19	1	2021.01.15._A7_TB3_A_ICAL_014.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/15/2021 19:36	1		GeminiC18 3x100 3(mm)
ICV 320-452203/14		01/15/2021 19:54	1	2021.01.15._A7_TB3_A_ICAL_016.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 01/29/2021 16:07

Analysis Batch Number: 456828 End Date: 01/30/2021 01:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-456828/1		01/29/2021 16:07	1	2021.01.29_TB3_A 007.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 16:25	1		GeminiC18 3x100 3(mm)
MB 320-456552/1-A		01/29/2021 16:42	1	2021.01.29_TB3_A 009.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 17:00	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 17:17	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 17:35	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 17:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 18:10	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 18:28	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 18:45	1		GeminiC18 3x100 3(mm)
LCS 320-456552/2-A		01/29/2021 19:03	1	2021.01.29_TB3_A 017.d	GeminiC18 3x100 3(mm)
LCSD 320-456552/3-A		01/29/2021 19:20	1	2021.01.29_TB3_A 018.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 19:38	1		GeminiC18 3x100 3(mm)
CCV 320-456828/14		01/29/2021 19:55	1	2021.01.29_TB3_A 020.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 20:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 20:31	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 20:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 21:06	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 21:23	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 21:41	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 21:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 22:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 22:34	1		GeminiC18 3x100 3(mm)
320-69350-3	SEEP-C-RAIN-EQBLK-012621	01/29/2021 22:51	1	2021.01.29_TB3_A 030.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 23:09	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/29/2021 23:26	1		GeminiC18 3x100 3(mm)
CCV 320-456828/27		01/29/2021 23:44	1	2021.01.29_TB3_A 033.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/30/2021 00:02	1		GeminiC18 3x100 3(mm)
320-69350-5	SEEP-C-EFFLUENT-138-011821	01/30/2021 00:19	1	2021.01.29_TB3_A 035.d	GeminiC18 3x100 3(mm)
320-69350-6	SEEP-C-FBLK-011821	01/30/2021 00:37	1	2021.01.29_TB3_A 036.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/30/2021 00:54	1		GeminiC18 3x100 3(mm)
CCV 320-456828/32		01/30/2021 01:12	1	2021.01.29_TB3_A 038.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Instrument ID: A7\_N Start Date: 01/30/2021 23:14

Analysis Batch Number: 457168 End Date: 01/31/2021 02:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-457168/1		01/30/2021 23:14	1	2021.01.30_TB3_B 002.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/30/2021 23:32	1		GeminiC18 3x100 3(mm)
ZZZZZ		01/30/2021 23:49	1		GeminiC18 3x100 3(mm)
320-69350-2	SEEP-C-RAIN-EFFLUENT-24-012621	01/31/2021 00:07	1	2021.01.30_TB3_B 005.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/31/2021 00:25	100		GeminiC18 3x100 3(mm)
ZZZZZ		01/31/2021 00:42	100		GeminiC18 3x100 3(mm)
ZZZZZ		01/31/2021 01:00	100		GeminiC18 3x100 3(mm)
320-69350-1	SEEP-C-RAIN-INFLUENT-24-012621	01/31/2021 01:17	100	2021.01.30_TB3_B 009.d	GeminiC18 3x100 3(mm)
320-69350-4	SEEP-C-INFLUENT-138-011821	01/31/2021 01:35	100	2021.01.30_TB3_B 010.d	GeminiC18 3x100 3(mm)
ZZZZZ		01/31/2021 01:52	1		GeminiC18 3x100 3(mm)
CCV 320-457168/11		01/31/2021 02:10	1	2021.01.30_TB3_B 012.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-69350-1

SDG No.: \_\_\_\_\_

Batch Number: 456552 Batch Start Date: 01/28/21 18:54 Batch Analyst: Vue, Pheng

Batch Method: PFAS Prep Batch End Date: 01/28/21 23:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00021	LCTB3_SP 00063	AnalysisComment	
MB 320-456552/1		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL		H2O/MeOH	
LCS 320-456552/2		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
LCSD 320-456552/3		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
320-69350-A-1	SEEP-C-RAIN-INFLUENT-24-012621	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	
320-69350-A-2	SEEP-C-RAIN-EFFLUENT-24-012621	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	
320-69350-A-3	SEEP-C-RAIN-EQBLK-012621	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	
320-69350-A-4	SEEP-C-INFLUENT-138-011821	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	
320-69350-A-5	SEEP-C-EFFLUENT-138-011821	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	
320-69350-A-6	SEEP-C-FBLK-011821	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Chemours (TB3+)

# Shipping and Receiving Documents

TestAmerica Sacramento  
880 Riverside Parkway West

Sacramento, CA 95605  
(916) 373-5600

### Chain of Custody Record



Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Site Contact: Christel Compton		Date: 01/26/2021	COC No: PAR-0123020-2					
Chemours		Lab Contact:		Carrier: FedEx	1 of 1 COCs					
22828 NC HWY 87 W		Analysis Turnaround Time		Sampler:						
Fayetteville, NC 28306		<input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		For Lab Use Only:						
910-678-1213		TAT if different from Below _____		Walk-in Client:						
Project Name: Seep Flow through Cell Sampling 2021		<input checked="" type="checkbox"/> 2 weeks		Lab Sampling:						
Site: Chemours Fayetteville Works Plant		<input type="checkbox"/> 1 week		Job / SDG No.:						
P O #		<input type="checkbox"/> 2 days		Sample Specific Notes:						
		<input type="checkbox"/> 1 day		Hold All Remaining Volumes						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Table 3 + (20) HL	Table 3 + (20) LL	Sample Specific Notes:
SEEP-C-RAIN-INFLUENT-24-012621	1/26/2021	11:35 C	W		8	N	N	X		
SEEP-C-RAIN-EFFLUENT-24-012621	1/26/2021	11:35 C	W		8	N	N	X		
SEEP-C-RAIN-EQBLK-012621	1/26/2021	15:30 C	W		8	N	N	X		
SEEP-C-INFLUENT-138-011821	1/18/2021	8:00 C	W		6	N	N	X		
SEEP-C-EFFLUENT-138-011821	1/18/2021	8:00 C	W		6	N	N	X		
SEEP-C-FBLK-011821	1/18/2021	16:00 C	W		6	N	N	X		



Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

Custody Seals intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cooler Temp. (°C): Obsd: 29	Therm ID No.: 89
Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>	Date/Time: 1/26/2021
Company: PARSONS	Company: EM&S	Date/Time: 1/26/2021
Relinquished by:	Received in Laboratory by:	Date/Time:

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-69350-1

**Login Number: 69350**  
**List Number: 1**  
**Creator: Oropeza, Salvador**

**List Source: Eurofins TestAmerica, Sacramento**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1516480
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



## ANALYTICAL REPORT

Job Number: 320-69608-1

Job Description: FAY-Seep Flow Through Cell Sampling 2021

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
2/22/2021 12:55 PM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
02/22/2021

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Sacramento**

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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2021**  
**Report Number: 320-69608-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Sample Arrival and Receipt**

The samples were received on 2/2/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

No anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-EFFLUENT-216-012921 (320-69608-1), SEEP-C-INFLUENT-228-012921 (320-69608-2), SEEP-C-EQBLK-ISCO-012921 (320-69608-3) and SEEP-C-FBLK-012921 (320-69608-4) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared on 02/04/2021 and 02/17/2021 and analyzed on 02/13/2021 and 02/21/2021.

The project required MS and Sample Duplicate could not be performed for prep batches 320-458886 and 320-462927, due to either being from a different job/SDG or due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

The continuing calibration verification (CCV) associated with batch 320-462396 recovered above the upper control limit for NVHOS, R-EVE, and PFO4DA. The sample associated with this CCV was non-detect for the affected analytes; therefore, the data has been reported. Associated sample: (CCV 320-462396/1).

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-69608-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-69608-1	SEEP-C-EFFLUENT-216-012921	EVE Acid	<0.0020	<0.0020	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	HFPO-DA	2.1	2.1	0.0081
320-69608-1	SEEP-C-EFFLUENT-216-012921	Hydro-EVE Acid	0.14	0.14	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	Hydrolyzed PSDA	0.18	0.18	0.0038
320-69608-1	SEEP-C-EFFLUENT-216-012921	Hydro-PS Acid	0.036	0.036	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	NVHOS	0.063	0.063	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	PEPA	0.26	0.26	0.020
320-69608-1	SEEP-C-EFFLUENT-216-012921	PES	<0.0020	<0.0020	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFECA B	<0.0027	<0.0027	0.0027
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFECA G	<0.0048	<0.0048	0.0048
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFMOAA	8.5	8.5	0.0080
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFO2HxA	2.4	2.4	0.0027
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFO3OA	0.58	0.58	0.0039
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFO4DA	0.27	0.27	0.0059
320-69608-1	SEEP-C-EFFLUENT-216-012921	PFO5DA	<0.0078	<0.0078	0.0078
320-69608-1	SEEP-C-EFFLUENT-216-012921	PMPA	0.92	0.92	0.062
320-69608-1	SEEP-C-EFFLUENT-216-012921	PS Acid	<0.0020	<0.0020	0.0020
320-69608-1	SEEP-C-EFFLUENT-216-012921	R-EVE	0.10	0.10	0.0072
320-69608-1	SEEP-C-EFFLUENT-216-012921	R-PSDA	0.091	0.091	0.0071
320-69608-1	SEEP-C-EFFLUENT-216-012921	R-PSDCA	<0.0020	<0.0020	0.0020
320-69608-2	SEEP-C-INFLUENT-228-012921	EVE Acid	<0.017	<0.017	0.017
320-69608-2	SEEP-C-INFLUENT-228-012921	HFPO-DA	18	18	0.081
320-69608-2	SEEP-C-INFLUENT-228-012921	Hydro-EVE Acid	1.2	1.2	0.014
320-69608-2	SEEP-C-INFLUENT-228-012921	Hydrolyzed PSDA	1.3	1.3	0.038
320-69608-2	SEEP-C-INFLUENT-228-012921	Hydro-PS Acid	0.30	0.30	0.0061
320-69608-2	SEEP-C-INFLUENT-228-012921	NVHOS	0.65	0.65	0.015
320-69608-2	SEEP-C-INFLUENT-228-012921	PEPA	2.5	2.5	0.020
320-69608-2	SEEP-C-INFLUENT-228-012921	PES	<0.0067	<0.0067	0.0067
320-69608-2	SEEP-C-INFLUENT-228-012921	PFECA B	<0.027	<0.027	0.027
320-69608-2	SEEP-C-INFLUENT-228-012921	PFECA G	<0.048	<0.048	0.048
320-69608-2	SEEP-C-INFLUENT-228-012921	PFMOAA	84	84	0.080
320-69608-2	SEEP-C-INFLUENT-228-012921	PFO2HxA	24	24	0.027
320-69608-2	SEEP-C-INFLUENT-228-012921	PFO3OA	5.7	5.7	0.039
320-69608-2	SEEP-C-INFLUENT-228-012921	PFO4DA	2.5	2.5	0.059
320-69608-2	SEEP-C-INFLUENT-228-012921	PFO5DA	<0.078	<0.078	0.078
320-69608-2	SEEP-C-INFLUENT-228-012921	PMPA	8.7	8.7	0.62
320-69608-2	SEEP-C-INFLUENT-228-012921	PS Acid	<0.020	<0.020	0.020
320-69608-2	SEEP-C-INFLUENT-228-012921	R-EVE	0.82	0.82	0.072
320-69608-2	SEEP-C-INFLUENT-228-012921	R-PSDA	0.79	0.79	0.071
320-69608-2	SEEP-C-INFLUENT-228-012921	R-PSDCA	<0.017	<0.017	0.017
320-69608-3	SEEP-C-EQBLK-ISCO-012921	EVE Acid	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	HFPO-DA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-69608-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	NVHOS	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PEPA	<0.020	<0.020	0.020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PES	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFECA B	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFECA G	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFMOAA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFO2HxA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFO3OA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFO4DA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PFO5DA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PMPA	<0.010	<0.010	0.010
320-69608-3	SEEP-C-EQBLK-ISCO-012921	PS Acid	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	R-EVE	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	R-PSDA	<0.0020	<0.0020	0.0020
320-69608-3	SEEP-C-EQBLK-ISCO-012921	R-PSDCA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	EVE Acid	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	HFPO-DA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	NVHOS	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PEPA	<0.020	<0.020	0.020
320-69608-4	SEEP-C-FBLK-012921	PES	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFECA B	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFECA G	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFMOAA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFO2HxA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFO3OA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFO4DA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PFO5DA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	PMPA	<0.010	<0.010	0.010
320-69608-4	SEEP-C-FBLK-012921	PS Acid	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	R-EVE	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	R-PSDA	<0.0020	<0.0020	0.0020
320-69608-4	SEEP-C-FBLK-012921	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-EFFLUENT-216-012921**

**Lab Sample ID: 320-69608-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	2.1		0.0081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	0.14		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.18		0.0038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.036		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.063		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	0.26		0.020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	8.5		0.0080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	2.4		0.0027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	0.58		0.0039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.27		0.0059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	0.92		0.062		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.10		0.0072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.091		0.0071		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-INFLUENT-228-012921**

**Lab Sample ID: 320-69608-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	18		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.2		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.3		0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.30		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.65		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	2.5		0.020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	84		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	24		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	5.7		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	2.5		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	8.7		0.62		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.82		0.072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.79		0.071		ug/L	1		Chemours (TB3+)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Detection Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

---

**Client Sample ID: SEEP-C-EQBLK-ISCO-012921**

**Lab Sample ID: 320-69608-3**

No Detections.

---

**Client Sample ID: SEEP-C-FBLK-012921**

**Lab Sample ID: 320-69608-4**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-EFFLUENT-216-012921**

**Lab Sample ID: 320-69608-1**

Date Collected: 01/29/21 14:00

Matrix: Water

Date Received: 02/02/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>HFPO-DA</b>	<b>2.1</b>		0.0081		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>Hydro-EVE Acid</b>	<b>0.14</b>		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>Hydrolyzed PSDA</b>	<b>0.18</b>		0.0038		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>Hydro-PS Acid</b>	<b>0.036</b>		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>NVHOS</b>	<b>0.063</b>		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PEPA</b>	<b>0.26</b>		0.020		ug/L		02/17/21 18:36	02/21/21 04:58	1
PES	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
PFECA B	<0.0027		0.0027		ug/L		02/17/21 18:36	02/21/21 04:58	1
PFECA G	<0.0048		0.0048		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PFMOAA</b>	<b>8.5</b>		0.0080		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PFO2HxA</b>	<b>2.4</b>		0.0027		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PFO3OA</b>	<b>0.58</b>		0.0039		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PFO4DA</b>	<b>0.27</b>		0.0059		ug/L		02/17/21 18:36	02/21/21 04:58	1
PFO5DA	<0.0078		0.0078		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>PMPA</b>	<b>0.92</b>		0.062		ug/L		02/17/21 18:36	02/21/21 04:58	1
PS Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>R-EVE</b>	<b>0.10</b>		0.0072		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>R-PSDA</b>	<b>0.091</b>		0.0071		ug/L		02/17/21 18:36	02/21/21 04:58	1
R-PSDCA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:58	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<sup>13</sup> C3 HFPO-DA	73		25 - 150				02/17/21 18:36	02/21/21 04:58	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-INFLUENT-228-012921**

**Lab Sample ID: 320-69608-2**

Date Collected: 01/29/21 14:00

Matrix: Water

Date Received: 02/02/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>HFPO-DA</b>	<b>18</b>		0.081		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>Hydro-EVE Acid</b>	<b>1.2</b>		0.014		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>Hydrolyzed PSDA</b>	<b>1.3</b>		0.038		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>Hydro-PS Acid</b>	<b>0.30</b>		0.0061		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>NVHOS</b>	<b>0.65</b>		0.015		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PEPA</b>	<b>2.5</b>		0.020		ug/L		02/17/21 18:36	02/21/21 05:16	1
PES	<0.0067		0.0067		ug/L		02/17/21 18:36	02/21/21 05:16	1
PFECA B	<0.027		0.027		ug/L		02/17/21 18:36	02/21/21 05:16	1
PFECA G	<0.048		0.048		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PFMOAA</b>	<b>84</b>		0.080		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PFO2HxA</b>	<b>24</b>		0.027		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PFO3OA</b>	<b>5.7</b>		0.039		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PFO4DA</b>	<b>2.5</b>		0.059		ug/L		02/17/21 18:36	02/21/21 05:16	1
PFO5DA	<0.078		0.078		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>PMPA</b>	<b>8.7</b>		0.62		ug/L		02/17/21 18:36	02/21/21 05:16	1
PS Acid	<0.020		0.020		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>R-EVE</b>	<b>0.82</b>		0.072		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>R-PSDA</b>	<b>0.79</b>		0.071		ug/L		02/17/21 18:36	02/21/21 05:16	1
R-PSDCA	<0.017		0.017		ug/L		02/17/21 18:36	02/21/21 05:16	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<sup>13</sup> C3 HFPO-DA	83		25 - 150				02/17/21 18:36	02/21/21 05:16	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-EQBLK-ISCO-012921**

**Lab Sample ID: 320-69608-3**

Date Collected: 01/29/21 12:30

Matrix: Water

Date Received: 02/02/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
HFPO-DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
NVHOS	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PEPA	<0.020		0.020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PES	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFECA B	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFECA G	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFMOAA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFO2HxA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFO3OA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFO4DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PFO5DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
PMPA	<0.010		0.010		ug/L		02/04/21 18:51	02/13/21 11:05	1
PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
R-EVE	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
R-PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
R-PSDCA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C3 HFPO-DA	92		25 - 150				02/04/21 18:51	02/13/21 11:05	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-FBLK-012921**

**Lab Sample ID: 320-69608-4**

**Date Collected: 01/29/21 13:00**

**Matrix: Water**

**Date Received: 02/02/21 09:50**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
HFPO-DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
NVHOS	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PEPA	<0.020		0.020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PES	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFECA B	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFECA G	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFMOAA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFO2HxA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFO3OA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFO4DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PFO5DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
PMPA	<0.010		0.010		ug/L		02/04/21 18:51	02/13/21 11:23	1
PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
R-EVE	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
R-PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
R-PSDCA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 11:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	95		25 - 150				02/04/21 18:51	02/13/21 11:23	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.020	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.010	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	HFPODA (25-150)
320-69608-1	SEEP-C-EFFLUENT-216-01292	73
320-69608-2	SEEP-C-INFLUENT-228-01292	83
320-69608-3	SEEP-C-EQBLK-ISCO-012921	92
320-69608-4	SEEP-C-FBLK-012921	95
LCS 320-458886/2-A	Lab Control Sample	89
LCS 320-462927/2-A	Lab Control Sample	88
LCSD 320-458886/3-A	Lab Control Sample Dup	93
LCSD 320-462927/3-A	Lab Control Sample Dup	79
MB 320-458886/1-A	Method Blank	93
MB 320-462927/1-A	Method Blank	88

#### Surrogate Legend

HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

**Lab Sample ID: MB 320-458886/1-A**

**Matrix: Water**

**Analysis Batch: 461727**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 458886**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
HFPO-DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
NVHOS	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PEPA	<0.020		0.020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PES	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFECA B	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFECA G	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFMOAA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFO2HxA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFO3OA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFO4DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PFO5DA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
PMPA	<0.010		0.010		ug/L		02/04/21 18:51	02/13/21 10:12	1
PS Acid	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
R-EVE	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
R-PSDA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
R-PSDCA	<0.0020		0.0020		ug/L		02/04/21 18:51	02/13/21 10:12	1
Isotope Dilution	MB	MB	Limits		Unit	D	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
13C3 HFPO-DA	93		25 - 150				02/04/21 18:51	02/13/21 10:12	1

**Lab Sample ID: LCS 320-458886/2-A**

**Matrix: Water**

**Analysis Batch: 461727**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 458886**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
HFPO-DA	0.200	0.201		ug/L		100	70 - 130	
Hydro-EVE Acid	0.200	0.197		ug/L		98	70 - 130	
Hydrolyzed PSDA	0.200	0.189		ug/L		94	50 - 150	
Hydro-PS Acid	0.200	0.183		ug/L		91	70 - 130	
NVHOS	0.200	0.184		ug/L		92	70 - 130	
PEPA	0.200	0.184		ug/L		92	70 - 130	
PES	0.200	0.194		ug/L		97	70 - 130	
PFECA B	0.200	0.193		ug/L		96	70 - 130	
PFECA G	0.200	0.189		ug/L		94	70 - 130	
PFMOAA	0.200	0.187		ug/L		93	70 - 130	
PFO2HxA	0.200	0.204		ug/L		102	70 - 130	
PFO3OA	0.200	0.215		ug/L		107	70 - 130	
PFO4DA	0.200	0.255		ug/L		127	50 - 150	
PFO5DA	0.200	0.183		ug/L		92	50 - 150	
PMPA	0.200	0.198		ug/L		99	70 - 130	
PS Acid	0.200	0.183		ug/L		91	70 - 130	
R-EVE	0.200	0.210		ug/L		105	50 - 150	
R-PSDA	0.200	0.183		ug/L		92	50 - 150	
R-PSDCA	0.200	0.186		ug/L		93	70 - 130	

Eurofins TestAmerica, Sacramento



# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	89		25 - 150

**Lab Sample ID: LCSD 320-458886/3-A**  
**Matrix: Water**  
**Analysis Batch: 461727**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 458886**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	
							Limits	RPD	RPD	Limit
EVE Acid	0.200	0.215		ug/L		108	70 - 130	6	25	
HFPO-DA	0.200	0.195		ug/L		97	70 - 130	3	25	
Hydro-EVE Acid	0.200	0.199		ug/L		100	70 - 130	1	25	
Hydrolyzed PSDA	0.200	0.191		ug/L		95	50 - 150	1	25	
Hydro-PS Acid	0.200	0.186		ug/L		93	70 - 130	2	25	
NVHOS	0.200	0.189		ug/L		94	70 - 130	3	25	
PEPA	0.200	0.178		ug/L		89	70 - 130	3	25	
PES	0.200	0.193		ug/L		97	70 - 130	0	25	
PFECA B	0.200	0.196		ug/L		98	70 - 130	2	25	
PFECA G	0.200	0.183		ug/L		91	70 - 130	3	25	
PFMOAA	0.200	0.188		ug/L		94	70 - 130	0	25	
PFO2HxA	0.200	0.198		ug/L		99	70 - 130	3	25	
PFO3OA	0.200	0.196		ug/L		98	70 - 130	9	25	
PFO4DA	0.200	0.233		ug/L		117	50 - 150	9	25	
PFO5DA	0.200	0.173		ug/L		87	50 - 150	6	25	
PMPA	0.200	0.194		ug/L		97	70 - 130	2	25	
PS Acid	0.200	0.191		ug/L		96	70 - 130	4	25	
R-EVE	0.200	0.213		ug/L		106	50 - 150	1	25	
R-PSDA	0.200	0.177		ug/L		88	50 - 150	4	25	
R-PSDCA	0.200	0.195		ug/L		97	70 - 130	4	25	

Isotope Dilution	LCSD LCSD		Limits
	%Recovery	Qualifier	
13C3 HFPO-DA	93		25 - 150

**Lab Sample ID: MB 320-462927/1-A**  
**Matrix: Water**  
**Analysis Batch: 463813**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 462927**

Analyte	MB MB		RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
EVE Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
HFPO-DA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
NVHOS	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PEPA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PES	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFECA B	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFECA G	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFMOAA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFO2HxA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFO3OA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFO4DA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PFO5DA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41		1	
PMPA	<0.010		0.010		ug/L		02/17/21 18:36	02/21/21 04:41		1	

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

**Lab Sample ID: MB 320-462927/1-A**  
**Matrix: Water**  
**Analysis Batch: 463813**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 462927**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
PS Acid	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41	1
R-EVE	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41	1
R-PSDA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41	1
R-PSDCA	<0.0020		0.0020		ug/L		02/17/21 18:36	02/21/21 04:41	1
<b>MB MB</b>									
Isotope Dilution	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
<sup>13</sup> C3 HFPO-DA	88		25 - 150			02/17/21 18:36	02/21/21 04:41	1	

**Lab Sample ID: LCS 320-462927/2-A**  
**Matrix: Water**  
**Analysis Batch: 463813**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 462927**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits		
									RPD	
EVE Acid	0.200	0.182		ug/L		91	70 - 130			
HFPO-DA	0.200	0.191		ug/L		96	70 - 130			
Hydro-EVE Acid	0.200	0.197		ug/L		99	70 - 130			
Hydrolyzed PSDA	0.200	0.220		ug/L		110	50 - 150			
Hydro-PS Acid	0.200	0.197		ug/L		98	70 - 130			
NVHOS	0.200	0.181		ug/L		91	70 - 130			
PEPA	0.200	0.172		ug/L		86	70 - 130			
PES	0.200	0.195		ug/L		97	70 - 130			
PFECA B	0.200	0.195		ug/L		98	70 - 130			
PFECA G	0.200	0.147		ug/L		74	70 - 130			
PFMOAA	0.200	0.224		ug/L		112	70 - 130			
PFO2HxA	0.200	0.202		ug/L		101	70 - 130			
PFO3OA	0.200	0.174		ug/L		87	70 - 130			
PFO4DA	0.200	0.195		ug/L		98	50 - 150			
PFO5DA	0.200	0.164		ug/L		82	50 - 150			
PMPA	0.200	0.195		ug/L		98	70 - 130			
PS Acid	0.200	0.187		ug/L		94	70 - 130			
R-EVE	0.200	0.198		ug/L		99	50 - 150			
R-PSDA	0.200	0.186		ug/L		93	50 - 150			
R-PSDCA	0.200	0.210		ug/L		105	70 - 130			
<b>LCS LCS</b>										
Isotope Dilution	%Recovery	Qualifier	Limits							
<sup>13</sup> C3 HFPO-DA	88		25 - 150							

**Lab Sample ID: LCSD 320-462927/3-A**  
**Matrix: Water**  
**Analysis Batch: 463813**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 462927**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	Limits	RPD	
									RPD	Limit
EVE Acid	0.200	0.171		ug/L		86	70 - 130	6	25	
HFPO-DA	0.200	0.194		ug/L		97	70 - 130	2	25	
Hydro-EVE Acid	0.200	0.184		ug/L		92	70 - 130	7	25	
Hydrolyzed PSDA	0.200	0.211		ug/L		105	50 - 150	4	25	
Hydro-PS Acid	0.200	0.182		ug/L		91	70 - 130	8	25	
NVHOS	0.200	0.168		ug/L		84	70 - 130	8	25	
PEPA	0.200	0.158		ug/L		79	70 - 130	8	25	

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

**Lab Sample ID: LCSD 320-462927/3-A**  
**Matrix: Water**  
**Analysis Batch: 463813**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 462927**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD Limit	
							Limits	RPD		
PES	0.200	0.169		ug/L		84	70 - 130	14	25	
PFECA B	0.200	0.176		ug/L		88	70 - 130	10	25	
PFECA G	0.200	0.151		ug/L		75	70 - 130	2	25	
PFMOAA	0.200	0.206		ug/L		103	70 - 130	9	25	
PFO2HxA	0.200	0.189		ug/L		95	70 - 130	7	25	
PFO3OA	0.200	0.161		ug/L		81	70 - 130	7	25	
PFO4DA	0.200	0.165		ug/L		83	50 - 150	17	25	
PFO5DA	0.200	0.140		ug/L		70	50 - 150	16	25	
PMPA	0.200	0.178		ug/L		89	70 - 130	9	25	
PS Acid	0.200	0.184		ug/L		92	70 - 130	2	25	
R-EVE	0.200	0.187		ug/L		93	50 - 150	6	25	
R-PSDA	0.200	0.170		ug/L		85	50 - 150	9	25	
R-PSDCA	0.200	0.193		ug/L		97	70 - 130	8	25	
		<b>LCSD</b>	<b>LCSD</b>							
<b>Isotope Dilution</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>						
<i>13C3 HFPO-DA</i>		79		25 - 150						

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## LCMS

### Prep Batch: 458886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Total/NA	Water	PFAS Prep	
320-69608-4	SEEP-C-FBLK-012921	Total/NA	Water	PFAS Prep	
MB 320-458886/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-458886/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-458886/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 461727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Total/NA	Water	Chemours (TB3+)	458886
320-69608-4	SEEP-C-FBLK-012921	Total/NA	Water	Chemours (TB3+)	458886
MB 320-458886/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	458886
LCS 320-458886/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	458886
LCSD 320-458886/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	458886

### Prep Batch: 462927

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69608-1	SEEP-C-EFFLUENT-216-012921	Total/NA	Water	PFAS Prep	
320-69608-2	SEEP-C-INFLUENT-228-012921	Total/NA	Water	PFAS Prep	
MB 320-462927/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-462927/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-462927/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 463813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-69608-1	SEEP-C-EFFLUENT-216-012921	Total/NA	Water	Chemours (TB3+)	462927
320-69608-2	SEEP-C-INFLUENT-228-012921	Total/NA	Water	Chemours (TB3+)	462927
MB 320-462927/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	462927
LCS 320-462927/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	462927
LCSD 320-462927/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	462927

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: SEEP-C-EFFLUENT-216-012921**

**Lab Sample ID: 320-69608-1**

Date Collected: 01/29/21 14:00

Matrix: Water

Date Received: 02/02/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.25 mL	5.0 mL	462927	02/17/21 18:36	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			463813	02/21/21 04:58	D1R	TAL SAC

**Client Sample ID: SEEP-C-INFLUENT-228-012921**

**Lab Sample ID: 320-69608-2**

Date Collected: 01/29/21 14:00

Matrix: Water

Date Received: 02/02/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.0 mL	462927	02/17/21 18:36	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			463813	02/21/21 05:16	D1R	TAL SAC

**Client Sample ID: SEEP-C-EQBLK-ISCO-012921**

**Lab Sample ID: 320-69608-3**

Date Collected: 01/29/21 12:30

Matrix: Water

Date Received: 02/02/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	458886	02/04/21 18:51	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			461727	02/13/21 11:05	D1R	TAL SAC

**Client Sample ID: SEEP-C-FBLK-012921**

**Lab Sample ID: 320-69608-4**

Date Collected: 01/29/21 13:00

Matrix: Water

Date Received: 02/02/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	458886	02/04/21 18:51	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			461727	02/13/21 11:23	D1R	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-458886/1-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	458886	02/04/21 18:51	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			461727	02/13/21 10:12	D1R	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-462927/1-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	462927	02/17/21 18:36	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			463813	02/21/21 04:41	D1R	TAL SAC

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-458886/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	458886	02/04/21 18:51	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			461727	02/13/21 12:33	D1R	TAL SAC

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-462927/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	462927	02/17/21 18:36	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			463813	02/21/21 07:02	D1R	TAL SAC

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-458886/3-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	458886	02/04/21 18:51	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			461727	02/13/21 12:51	D1R	TAL SAC

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-462927/3-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.5 mL	5.0 mL	462927	02/17/21 18:36	PV	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			463813	02/21/21 07:20	D1R	TAL SAC

## Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-21 *
ANAB	ISO/IEC 17025	L2468	01-20-21 *
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	02-21-21
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-21 *
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

Client = Client derived Standard Operating Procedure

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-69608-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-69608-1	SEEP-C-EFFLUENT-216-012921	Water	01/29/21 14:00	02/02/21 09:50	
320-69608-2	SEEP-C-INFLUENT-228-012921	Water	01/29/21 14:00	02/02/21 09:50	
320-69608-3	SEEP-C-EQBLK-ISCO-012921	Water	01/29/21 12:30	02/02/21 09:50	
320-69608-4	SEEP-C-FBLK-012921	Water	01/29/21 13:00	02/02/21 09:50	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 12:42 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.31	Assign Peak	contreras e	02/07/21 11:50
R-EVE	6.47	Baseline	contreras e	02/07/21 13:49
R-PSDA	6.53	Baseline	contreras e	02/07/21 13:49
Hydrolyzed PSDA	6.59	Incomplete Integration	contreras e	02/07/21 11:52
PMPA	6.80	Assign Peak	contreras e	02/07/21 11:51
NVHOS	7.18	Incomplete Integration	contreras e	02/07/21 11:52
13C3 HFPO-DA	9.19	Baseline	contreras e	02/07/21 13:57
13C4 PFHpA	9.59	Baseline	contreras e	02/07/21 13:57
PFO5DA	10.45	Incomplete Integration	contreras e	02/07/21 11:52

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 12:59 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.34	Incomplete Integration	contreras e	02/07/21 11:52
R-EVE	6.47	Baseline	contreras e	02/07/21 13:50
R-PSDA	6.51	Baseline	contreras e	02/07/21 13:50
Hydrolyzed PSDA	6.59	Incomplete Integration	contreras e	02/07/21 11:52
PMPA	6.80	Incomplete Integration	contreras e	02/07/21 11:54
NVHOS	7.18	Incomplete Integration	contreras e	02/07/21 11:54
13C3 HFPO-DA	9.16	Baseline	contreras e	02/07/21 13:57
13C4 PFHpA	9.59	Baseline	contreras e	02/07/21 13:57
PFO5DA	10.43	Incomplete Integration	contreras e	02/07/21 11:52

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 13:17 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.27	Incomplete Integration	contreras e	02/07/21 11:53
R-EVE	6.45	Baseline	contreras e	02/07/21 13:50
R-PSDA	6.49	Baseline	contreras e	02/07/21 13:50
Hydrolyzed PSDA	6.57	Incomplete Integration	contreras e	02/07/21 11:53
PMPA	6.80	Incomplete Integration	contreras e	02/07/21 11:54
NVHOS	7.16	Incomplete Integration	contreras e	02/07/21 11:54
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:58

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 13:34 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.28	Incomplete Integration	contreras e	02/07/21 11:53
R-EVE	6.45	Baseline	contreras e	02/07/21 13:51
R-PSDA	6.49	Baseline	contreras e	02/07/21 13:51
Hydrolyzed PSDA	6.57	Baseline	contreras e	02/07/21 13:51
PMPA	6.80	Incomplete Integration	contreras e	02/07/21 11:54
13C3 HFPO-DA	9.16	Baseline	contreras e	02/07/21 13:58
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:58

Lab Sample ID: IC 320-459394/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 13:52 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.27	Incomplete Integration	contreras e	02/07/21 11:55
R-EVE	6.43	Baseline	contreras e	02/07/21 13:52
R-PSDA	6.49	Baseline	contreras e	02/07/21 13:52
Hydrolyzed PSDA	6.55	Baseline	contreras e	02/07/21 13:52
13C3 HFPO-DA	9.13	Assign Peak	contreras e	02/07/21 13:58
13C4 PFHpA	9.56	Assign Peak	contreras e	02/07/21 13:58

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 14:09 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.31	Incomplete Integration	contreras e	02/07/21 11:55
13C3 HFPO-DA	9.13	Baseline	contreras e	02/07/21 13:58
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:58

Lab Sample ID: IC 320-459394/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 14:27 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.15	Incomplete Integration	contreras e	02/07/21 11:56
R-EVE	6.41	Baseline	contreras e	02/07/21 13:52
R-PSDA	6.47	Baseline	contreras e	02/07/21 13:52
Hydrolyzed PSDA	6.55	Baseline	contreras e	02/07/21 13:52
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:59

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 15:02 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.17	Incomplete Integration	contreras e	02/07/21 11:56
R-EVE	6.43	Baseline	contreras e	02/07/21 13:53
R-PSDA	6.47	Baseline	contreras e	02/07/21 13:53
Hydrolyzed PSDA	6.55	Baseline	contreras e	02/07/21 13:53
PMPA	6.76	Incomplete Integration	contreras e	02/07/21 11:56
13C3 HFPO-DA	9.13	Baseline	contreras e	02/07/21 13:59
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:59

Lab Sample ID: IC 320-459394/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 15:37 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.18	Incomplete Integration	contreras e	02/07/21 11:57
R-EVE	6.41	Baseline	contreras e	02/07/21 13:53
R-PSDA	6.47	Baseline	contreras e	02/07/21 13:53
Hydrolyzed PSDA	6.55	Baseline	contreras e	02/07/21 13:53
13C3 HFPO-DA	9.13	Analyst error	contreras e	02/07/21 13:59
13C4 PFHpA	9.56	Analyst error	contreras e	02/07/21 13:59

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 459394

Lab Sample ID: IC 320-459394/13 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 15:55 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.28	Other	contreras e	02/07/21 11:58
13C3 HFPO-DA	9.13	Baseline	contreras e	02/07/21 13:59
13C4 PFHpA	9.56	Baseline	contreras e	02/07/21 13:59

Lab Sample ID: ICV 320-459394/15 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/06/21 16:30 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.28	Incomplete Integration	contreras e	02/07/21 11:58
R-EVE	6.43	Baseline	contreras e	02/07/21 11:59
R-PSDA	6.49	Baseline	contreras e	02/07/21 11:59
Hydrolyzed PSDA	6.57	Baseline	contreras e	02/07/21 11:59
PMPA	6.78	Baseline	contreras e	02/07/21 11:59
NVHOS	7.16	Baseline	contreras e	02/07/21 11:59



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 461727

Lab Sample ID: CCV 320-461727/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/13/21 09:37 Lab File ID: 2021.02.13\_A12\_TB3\_A\_012. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.69	Assign Peak	yuj	02/13/21 12:08
R-EVE	6.45	Incomplete Integration	yuj	02/13/21 12:08
R-PSDA	6.51	Incomplete Integration	yuj	02/13/21 12:08

Lab Sample ID: MB 320-458886/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/13/21 10:12 Lab File ID: 2021.02.13\_A12\_TB3\_A\_014. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.13	Assign Peak	yuj	02/13/21 12:37

Lab Sample ID: 320-69608-3 Client Sample ID: SEEP-C-EQBLK-ISCO-012921

Date Analyzed: 02/13/21 11:05 Lab File ID: 2021.02.13\_A12\_TB3\_A\_017. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.14	Assign Peak	yuj	02/13/21 13:30

Lab Sample ID: 320-69608-4 Client Sample ID: SEEP-C-FBLK-012921

Date Analyzed: 02/13/21 11:23 Lab File ID: 2021.02.13\_A12\_TB3\_A\_018. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.13	Assign Peak	yuj	02/13/21 14:03

Lab Sample ID: LCS 320-458886/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/13/21 12:33 Lab File ID: 2021.02.13\_A12\_TB3\_A\_022. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.22	Incomplete Integration	yuj	02/13/21 14:56

Chemours (TB3+)

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 461727

Lab Sample ID: LCSD 320-458886/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/13/21 12:51 Lab File ID: 2021.02.13\_A12\_TB3\_A\_023. GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.16	Incomplete Integration	yuj	02/13/21 15:59

Lab Sample ID: CCV 320-461727/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/13/21 13:26 Lab File ID: 2021.02.13\_A12\_TB3\_A\_025. GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.99	Incomplete Integration	yuj	02/13/21 15:59
R-EVE	6.43	Incomplete Integration	yuj	02/13/21 15:59

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463313

Lab Sample ID: IC 320-463313/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 18:48 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.08	Baseline	fariasa	02/19/21 10:12
R-PSDA	6.41	Baseline	phomsopha t	02/18/21 23:01
PMPA	6.71	Baseline	phomsopha t	02/18/21 22:44

Lab Sample ID: IC 320-463313/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 19:06 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.16	Baseline	phomsopha t	02/18/21 22:47
R-EVE	6.37	Baseline	fariasa	02/19/21 10:10
Hydrolyzed PSDA	6.49	Baseline	fariasa	02/19/21 10:10
PMPA	6.71	Baseline	fariasa	02/19/21 11:58
PEPA	8.26	Baseline	fariasa	02/19/21 10:10

Lab Sample ID: IC 320-463313/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 19:23 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.11	Baseline	fariasa	02/19/21 10:08
R-PSDA	6.43	Baseline	fariasa	02/19/21 10:08
Hydrolyzed PSDA	6.49	Baseline	fariasa	02/19/21 10:08
PMPA	6.71	Baseline	fariasa	02/19/21 10:08
NVHOS	7.11	Baseline	fariasa	02/19/21 10:08
PFECA B	8.77	Baseline	fariasa	02/19/21 10:08
PFO3OA	8.99	Baseline	fariasa	02/19/21 10:08

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463313

Lab Sample ID: IC 320-463313/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 19:41 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.74	Baseline	phomsopha t	02/18/21 22:47
R-EVE	6.33	Baseline	phomsopha t	02/18/21 22:51
R-PSDA	6.37	Baseline	fariasa	02/19/21 10:07
PMPA	6.66	Baseline	fariasa	02/19/21 10:07

Lab Sample ID: IC 320-463313/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 19:59 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.09	Baseline	phomsopha t	02/18/21 22:47
R-EVE	6.35	Baseline	phomsopha t	02/18/21 22:55

Lab Sample ID: IC 320-463313/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 20:34 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.03	Baseline	phomsopha t	02/18/21 22:48
R-EVE	6.35	Baseline	phomsopha t	02/18/21 22:55
R-PSDA	6.41	Baseline	phomsopha t	02/18/21 22:58

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463313

Lab Sample ID: IC 320-463313/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 21:09 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.09	Baseline	phomsopha t	02/18/21 22:48
R-EVE	6.37	Baseline	phomsopha t	02/18/21 22:56
R-PSDA	6.43	Baseline	phomsopha t	02/18/21 22:59

Lab Sample ID: IC 320-463313/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 21:44 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.15	Baseline	phomsopha t	02/18/21 22:48
R-EVE	6.35	Baseline	phomsopha t	02/18/21 22:56
R-PSDA	6.41	Baseline	phomsopha t	02/18/21 22:59

Lab Sample ID: IC 320-463313/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 22:19 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.20	Baseline	fariasa	02/19/21 09:35

Lab Sample ID: IC 320-463313/16 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 22:37 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.18	Baseline	fariasa	02/19/21 10:16

Chemours (TB3+)

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463313

Lab Sample ID: ICV 320-463313/18 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/18/21 23:12 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.11	Incomplete Integration	fariasa	02/19/21 10:14
R-EVE	6.33	Incomplete Integration	fariasa	02/19/21 10:14
R-PSDA	6.39	Baseline	fariasa	02/19/21 10:14
PMPA	6.68	Baseline	fariasa	02/19/21 10:14
NVHOS	7.09	Baseline	fariasa	02/19/21 10:14
PFO2HxA	7.65	Baseline	fariasa	02/19/21 10:14
PES	8.52	Baseline	fariasa	02/19/21 10:15
Hydro-PS Acid	9.52	Baseline	fariasa	02/19/21 10:15

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463813

Lab Sample ID: CCV 320-463813/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/21/21 04:06 Lab File ID: 2021.02.20\_A12\_TB3\_B\_012. GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.54	Assign Peak	contreras e	02/21/21 09:29
R-EVE	6.23	Incomplete Integration	fariasa	02/22/21 07:34
R-PSDA	6.29	Incomplete Integration	fariasa	02/22/21 07:34
Hydrolyzed PSDA	6.37	Incomplete Integration	fariasa	02/22/21 07:34

Lab Sample ID: 320-69608-1 Client Sample ID: SEEP-C-EFFLUENT-216-012921

Date Analyzed: 02/21/21 04:58 Lab File ID: 2021.02.20\_A12\_TB3\_B\_015. GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.29	Baseline	ruangyots akuld	02/22/21 08:44
R-EVE	6.13	Baseline	ruangyots akuld	02/22/21 08:44
R-PSDA	6.19	Baseline	ruangyots akuld	02/22/21 08:44
PMPA	6.49	Baseline	ruangyots akuld	02/22/21 08:45
NVHOS	6.95	Baseline	ruangyots akuld	02/22/21 08:45
R-PSDCA	9.39	Baseline	ruangyots akuld	02/22/21 08:45

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463813

Lab Sample ID: 320-69608-2 Client Sample ID: SEEP-C-INFLUENT-228-012921

Date Analyzed: 02/21/21 05:16 Lab File ID: 2021.02.20\_A12\_TB3\_B\_016. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.90	Baseline	ruangyots akuld	02/22/21 08:45
R-EVE	6.27	Baseline	ruangyots akuld	02/22/21 08:45
R-PSDA	6.33	Baseline	ruangyots akuld	02/22/21 08:45
PMPA	6.59	Baseline	ruangyots akuld	02/22/21 08:45
R-PSDCA	9.36	Baseline	ruangyots akuld	02/22/21 08:46

Lab Sample ID: LCS 320-462927/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/21/21 07:02 Lab File ID: 2021.02.20\_A12\_TB3\_B\_022. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.63	Other	contreras e	02/21/21 09:30
R-EVE	6.25	Baseline	ruangyots akuld	02/22/21 08:51
R-PSDA	6.31	Baseline	ruangyots akuld	02/22/21 08:51
Hydrolyzed PSDA	6.37	Baseline	ruangyots akuld	02/22/21 08:51
PMPA	6.57	Baseline	ruangyots akuld	02/22/21 08:51



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 463813

Lab Sample ID: LCSD 320-462927/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/21/21 07:20 Lab File ID: 2021.02.20\_A12\_TB3\_B\_023. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.65	Incomplete Integration	contreras e	02/21/21 09:30
R-EVE	6.29	Baseline	ruangyots akuld	02/22/21 08:52
R-PSDA	6.35	Baseline	ruangyots akuld	02/22/21 08:52
Hydrolyzed PSDA	6.43	Baseline	ruangyots akuld	02/22/21 08:52
PMPA	6.61	Baseline	ruangyots akuld	02/22/21 08:52

Lab Sample ID: CCV 320-463813/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/21/21 07:55 Lab File ID: 2021.02.20\_A12\_TB3\_B\_025. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.96	Assign Peak	contreras e	02/21/21 09:30
R-EVE	6.33	Baseline	ruangyots akuld	02/22/21 08:43

Lab Sample ID: CCV 320-463813/24 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/21/21 10:51 Lab File ID: 2021.02.20\_A12\_TB3\_B\_035. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.06	Assign Peak	contreras e	02/21/21 14:17
R-EVE	6.41	Baseline	ruangyots akuld	02/22/21 08:44
13C3 HFPO-DA	9.16	Peak assignment corrected	contreras e	02/21/21 14:17

Chemours (TB3+)

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00021</b>	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLICV_00046</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_ICVSP_00014	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
PFO3OA	0.1 ug/L							
PFO4DA	0.1 ug/L							
PFO5DA	0.1 ug/L							
PMPA	0.1 ug/L							
R-EVE	0.1 ug/L							
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP1 00001	01/23/24		Chemours, Lot NA		LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
<b>LCTB3_LLICV_00047</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	R-EVE	1000 ug/mL
					LCTB3_ICVSP_00014	200 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00055</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.001 ug/L
							PFMOAA	0.001 ug/L
							PFO2HxA	0.001 ug/L
							PFO3OA	0.001 ug/L
							PFO4DA	0.001 ug/L
							PFO5DA	0.001 ug/L
							PMPA	0.001 ug/L
							R-EVE	0.001 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA 00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00056</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFMOAA	0.001 ug/L
		PFO2HxA	0.001 ug/L					
		PFO3OA	0.001 ug/L					
		PFO4DA	0.001 ug/L					
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)	13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00040</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
		PFO3OA	1 ug/L					
		PFO4DA	1 ug/L					
		PFO5DA	1 ug/L					
		PMPA	1 ug/L					
		R-EVE	1 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
							Perfluoroheptanoic acid	5 ug/L	
							PS Acid	5 ug/L	
							Hydro-PS Acid	5 ug/L	
							R-PSDA	5 ug/L	
							Hydrolyzed PSDA	5 ug/L	
							R-PSDCA	5 ug/L	
							EVE Acid	5 ug/L	
							Hydro-EVE Acid	5 ug/L	
							NVHOS	5 ug/L	
							PEPA	5 ug/L	
							PES	5 ug/L	
							PFECA B	5 ug/L	
							PFECA G	5 ug/L	
							PFMOAA	5 ug/L	
							PFO2HxA	5 ug/L	
							PFO3OA	5 ug/L	
							PFO4DA	5 ug/L	
							PFO5DA	5 ug/L	
							PMPA	5 ug/L	
							R-EVE	5 ug/L	
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L	
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L	
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L	
							Hydro-PS Acid	50 ug/L	
							R-PSDA	50 ug/L	
							Hydrolyzed PSDA	50 ug/L	
							R-PSDCA	50 ug/L	
							EVE Acid	50 ug/L	
							Hydro-EVE Acid	50 ug/L	
							NVHOS	50 ug/L	
							PEPA	50 ug/L	
							PES	50 ug/L	
							PFECA B	50 ug/L	
							PFECA G	50 ug/L	
							PFMOAA	50 ug/L	
							PFO2HxA	50 ug/L	
							PFO3OA	50 ug/L	
							PFO4DA	50 ug/L	
							PFO5DA	50 ug/L	
							PMPA	50 ug/L	
							R-EVE	50 ug/L	
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L	
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L	
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L	
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L	
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L	

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00041</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
							PFO3OA	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPMPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00045</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00066	250 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
							PFO2HxA	0.0025 ug/L
							PFO3OA	0.0025 ug/L
							PFO4DA	0.0025 ug/L
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920			(Purchased Reagent)	13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent) PS Acid	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00046</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
		PFO2HxA	0.0025 ug/L					
		PFO3OA	0.0025 ug/L					
		PFO4DA	0.0025 ug/L					
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L		
							Perfluoroheptanoic acid	0.1 ug/L		
							PS Acid	0.1 ug/L		
							Hydro-PS Acid	0.1 ug/L		
							R-PSDA	0.1 ug/L		
							Hydrolyzed PSDA	0.1 ug/L		
							R-PSDCA	0.1 ug/L		
							EVE Acid	0.1 ug/L		
							Hydro-EVE Acid	0.1 ug/L		
							NVHOS	0.1 ug/L		
							PEPA	0.1 ug/L		
							PES	0.1 ug/L		
							PFECA B	0.1 ug/L		
							PFECA G	0.1 ug/L		
							PFMOAA	0.1 ug/L		
							PFO2HxA	0.1 ug/L		
							PFO3OA	0.1 ug/L		
PFO4DA	0.1 ug/L									
PFO5DA	0.1 ug/L									
PMPA	0.1 ug/L									
R-EVE	0.1 ug/L									
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L		
							LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
							LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
									Hydro-PS Acid	50 ug/L
									R-PSDA	50 ug/L
									Hydrolyzed PSDA	50 ug/L
									R-PSDCA	50 ug/L
									EVE Acid	50 ug/L
									Hydro-EVE Acid	50 ug/L
									NVHOS	50 ug/L
									PEPA	50 ug/L
									PES	50 ug/L
									PFECA B	50 ug/L
									PFECA G	50 ug/L
									PFMOAA	50 ug/L
									PFO2HxA	50 ug/L
									PFO3OA	50 ug/L
PFO4DA	50 ug/L									
PFO5DA	50 ug/L									
PMPA	50 ug/L									
R-EVE	50 ug/L									
...LCHFPO-DA_00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL			
...LCPFHpA_00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL			
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L		
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L		
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L		
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L		

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCPBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCPBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCPBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCPBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCPBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00045</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
							PFO2HxA	0.005 ug/L
							PFO30A	0.005 ug/L
							PFO4DA	0.005 ug/L
							PFO5DA	0.005 ug/L
							PMPA	0.005 ug/L
							R-EVE	0.005 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO30A	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL				
					LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL		
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL		
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL		
<b>LCTB3_LLSTD3_00046</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L		
							13C4 PFHpA	0.25 ug/L		
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L		
							Perfluoroheptanoic acid	0.005 ug/L		
							PS Acid	0.005 ug/L		
							Hydro-PS Acid	0.005 ug/L		
							R-PSDA	0.005 ug/L		
							Hydrolyzed PSDA	0.005 ug/L		
							R-PSDCA	0.005 ug/L		
							EVE Acid	0.005 ug/L		
							Hydro-EVE Acid	0.005 ug/L		
							NVHOS	0.005 ug/L		
							PEPA	0.005 ug/L		
							PES	0.005 ug/L		
							PFECA B	0.005 ug/L		
							PFECA G	0.005 ug/L		
							PFMOAA	0.005 ug/L		
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L		
							13C4 PFHpA	5 ug/L		
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL		
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL		
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL		
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L		
									Perfluoroheptanoic acid	0.1 ug/L
									PS Acid	0.1 ug/L
									Hydro-PS Acid	0.1 ug/L
									R-PSDA	0.1 ug/L
									Hydrolyzed PSDA	0.1 ug/L
									R-PSDCA	0.1 ug/L
									EVE Acid	0.1 ug/L
									Hydro-EVE Acid	0.1 ug/L
									NVHOS	0.1 ug/L
									PEPA	0.1 ug/L
									PES	0.1 ug/L
									PFECA B	0.1 ug/L
									PFECA G	0.1 ug/L
		PFMOAA	0.1 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpa 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPPMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00044</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
		PFO2HxA	0.01 ug/L					
		PFO3OA	0.01 ug/L					
		PFO4DA	0.01 ug/L					
		PFO5DA	0.01 ug/L					
		PMPA	0.01 ug/L					
		R-EVE	0.01 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM4PFHPA 00035	09/29/25	Wellington Laboratories, Lot M4PFHPA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
...LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23	WELLINGTON, Lot HFPODA0720			(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00045</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFPECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFPECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFPECA_G_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00054</b>	03/23/21	01/20/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
		PFO2HxA	0.025 ug/L					
		PFO3OA	0.025 ug/L					
		PFO4DA	0.025 ug/L					
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPa0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFPECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00055</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFM0AA	0.025 ug/L
		PFO2HxA	0.025 ug/L					
		PFO30A	0.025 ug/L					
		PFO4DA	0.025 ug/L					
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHPa	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpa 00020	07/09/25		Wellington Laboratories, Lot PFHPA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPB4 00001	100 uL	R-PSDA	5000 ug/L
					LCPB5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCPB6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCPB1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCPB2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCPB4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCPB5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCPB6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00075</b>	03/23/21	02/05/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
							PFO3OA	0.05 ug/L
							PFO4DA	0.05 ug/L
							PFO5DA	0.05 ug/L
							PMPA	0.05 ug/L
							R-EVE	0.05 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHFA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00087</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
		PFO30A	0.05 ug/L					
		PFO4DA	0.05 ug/L					
		PFO5DA	0.05 ug/L					
		PMPA	0.05 ug/L					
		R-EVE	0.05 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA 00001	100 uL	PFO5DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00396</b>	03/23/21	02/05/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00409</b>	03/23/21	02/08/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPMPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00420</b>	03/23/21	02/15/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)	13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)	13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCPB1_00001	100 uL	PS Acid	5000 ug/L
					LCPB2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCPB4_00001	100 uL	R-PSDA	5000 ug/L
					LCPB5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCPB6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCPB1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCPB2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCPB4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCPB5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCPB6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00426</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
		PFO2HxA	0.1 ug/L					
		PFO3OA	0.1 ug/L					
		PFO4DA	0.1 ug/L					
		PFO5DA	0.1 ug/L					
		PMPA	0.1 ug/L					
		R-EVE	0.1 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA 00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
...LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD8_00043</b>	03/23/21	01/20/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	500 uL	HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	0.25 ug/L
							PFO30A	0.25 ug/L
							PFO4DA	0.25 ug/L
							PFO5DA	0.25 ug/L
							PMPA	0.25 ug/L
							R-EVE	0.25 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25	Wellington Laboratories, Lot M4PFHPA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL				
					LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCTB3_LLSTD8_00044</b>	03/23/21	02/17/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	500 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L
PFO2HxA	0.25 ug/L							
PFO3OA	0.25 ug/L							
PFO4DA	0.25 ug/L							
PFO5DA	0.25 ug/L							
PMPA	0.25 ug/L							
R-EVE	0.25 ug/L							
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
PFO4DA	5 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFPECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA				PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA				Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA				R-PSDA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00041</b>	03/23/21	01/20/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
							PFO2HxA	0.5 ug/L
							PFO3OA	0.5 ug/L
							PFO4DA	0.5 ug/L
							PFO5DA	0.5 ug/L
							PMPA	0.5 ug/L
							R-EVE	0.5 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
...LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00042</b>	03/23/21	02/17/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
							PFO2HxA	0.5 ug/L
							PFO30A	0.5 ug/L
							PFO4DA	0.5 ug/L
							PFO5DA	0.5 ug/L
							PMPA	0.5 ug/L
							R-EVE	0.5 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA 00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpa 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEA 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
...LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL	
LCTB3_SP_00063	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L	
							Perfluoroheptanoic acid	5 ug/L	
							PS Acid	5 ug/L	
							Hydro-PS Acid	5 ug/L	
							R-PSDA	5 ug/L	
							Hydrolyzed PSDA	5 ug/L	
							R-PSDCA	5 ug/L	
							DFSA	5 ug/L	
							EVE Acid	5 ug/L	
							Hydro-EVE Acid	5 ug/L	
							MMF	5 ug/L	
							MTP	5 ug/L	
							NVHOS	5 ug/L	
							PEPA	5 ug/L	
							PES	5 ug/L	
							PFECA B	5 ug/L	
							PFECA G	5 ug/L	
							PFMOAA	5 ug/L	
PFO2HxA	5 ug/L								
PFO3OA	5 ug/L								
PFO4DA	5 ug/L								
PFO5DA	5 ug/L								
PMPA	5 ug/L								
PPF Acid	5 ug/L								
R-EVE	5 ug/L								
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L	
						LCTB3_IM_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
							2 mL	PS Acid	50 ug/L
								Hydro-PS Acid	50 ug/L
								R-PSDA	50 ug/L
								Hydrolyzed PSDA	50 ug/L
								R-PSDCA	50 ug/L
								DFSA	50 ug/L
								EVE Acid	50 ug/L
								Hydro-EVE Acid	50 ug/L
								MMF	50 ug/L
								MTP	50 ug/L
								NVHOS	50 ug/L
								PEPA	50 ug/L
								PES	50 ug/L
								PFECA B	50 ug/L
								PFECA G	50 ug/L
								PFMOAA	50 ug/L
	PFO2HxA	50 ug/L							
	PFO3OA	50 ug/L							
	PFO4DA	50 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							PPF Acid	50 ug/L
							R-EVE	50 ug/L
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPEFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
...LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
...LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
...LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
...LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPFFA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL

Reagent

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**LCHFPO-DA\_00014**



### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

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### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

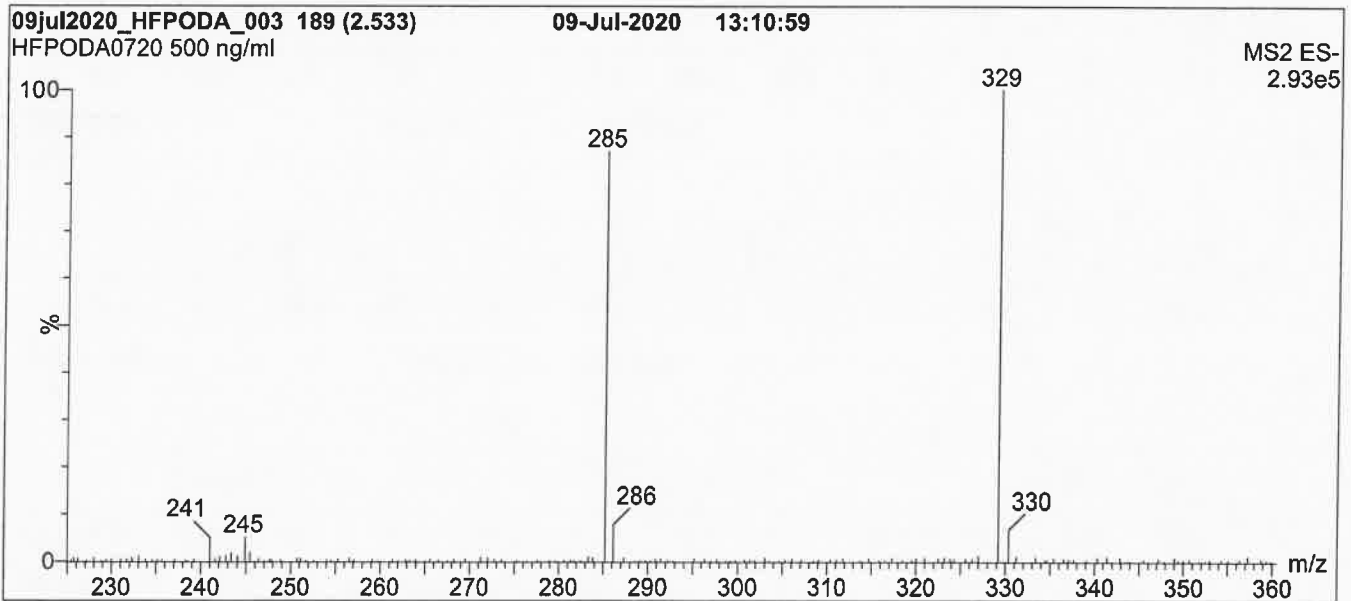
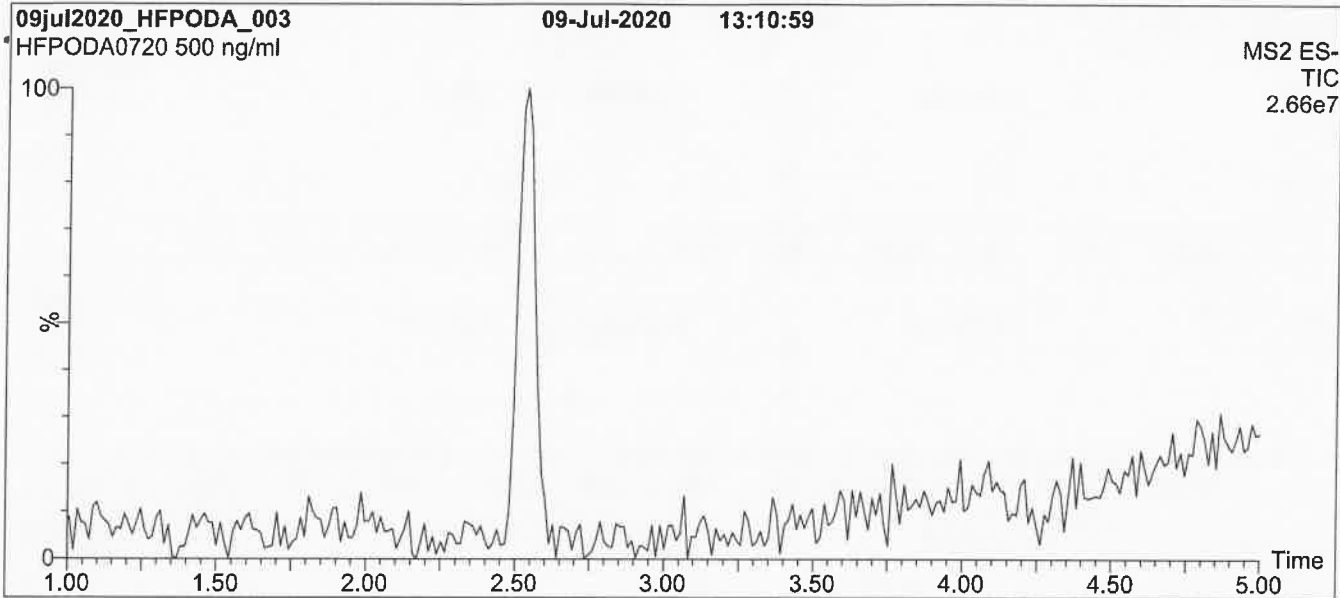
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

**Flow:** 300  $\mu$ l/min

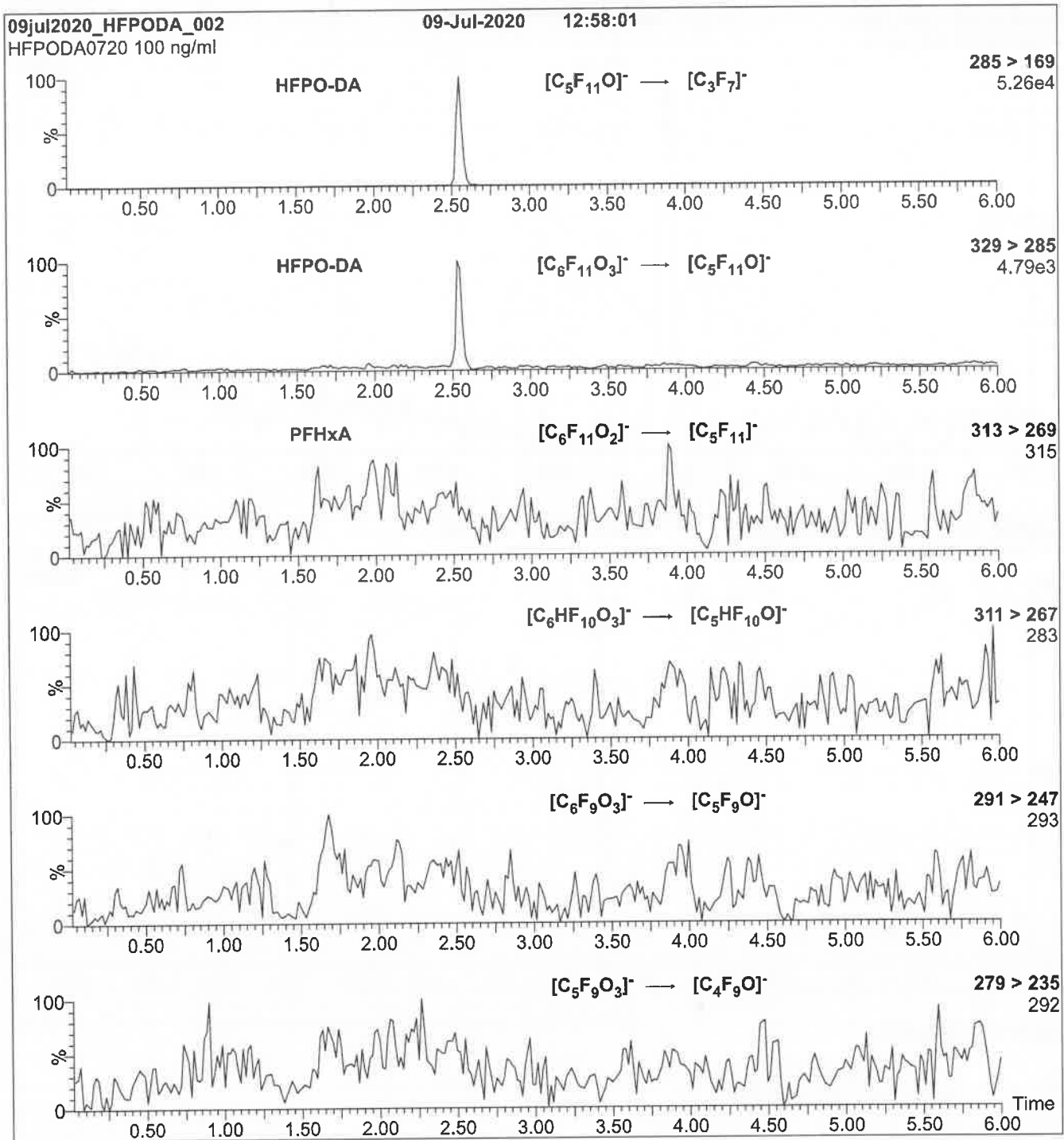
**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000



**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

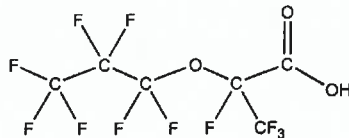
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**LCHFPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:**  $C_6H_5F_{11}O_3$  **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:**  $50.0 \pm 2.5 \mu\text{g/ml}$  **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### **INTENDED USE:**

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Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

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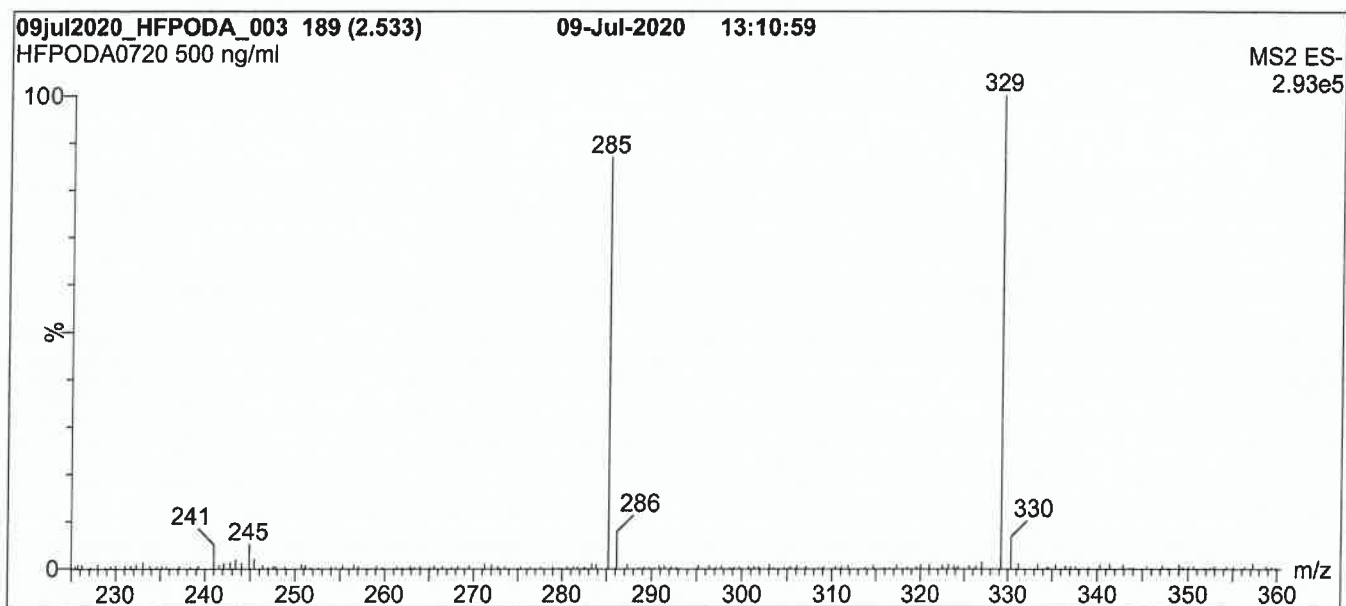
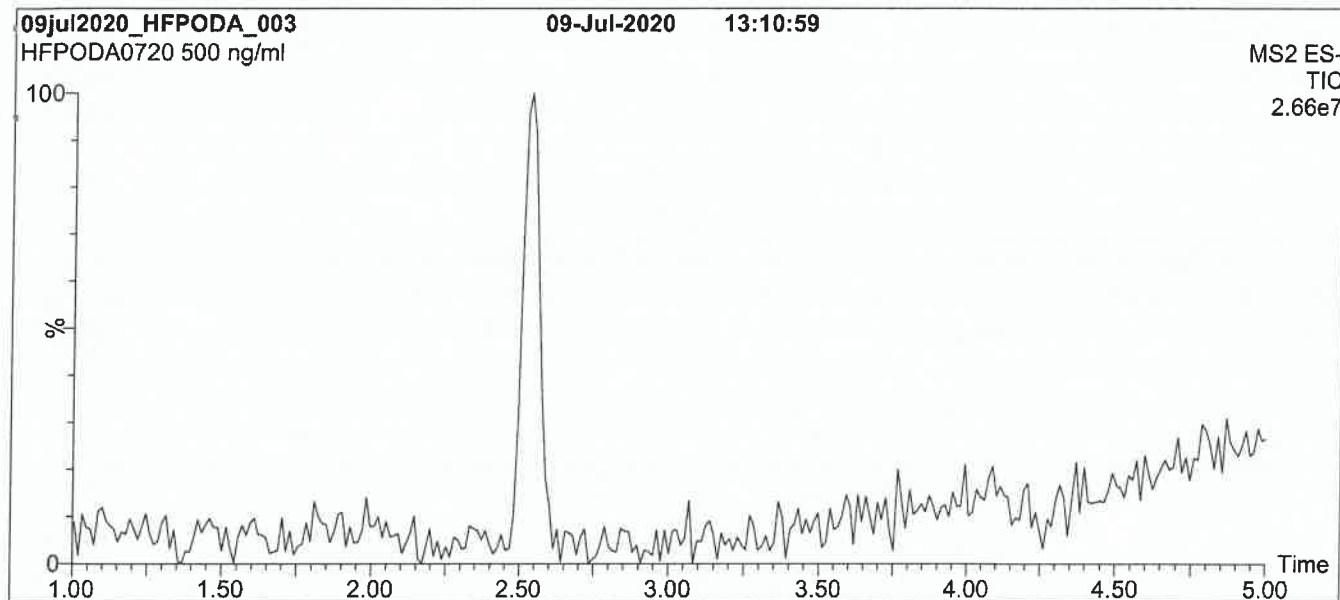
### **QUALITY MANAGEMENT:**

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**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

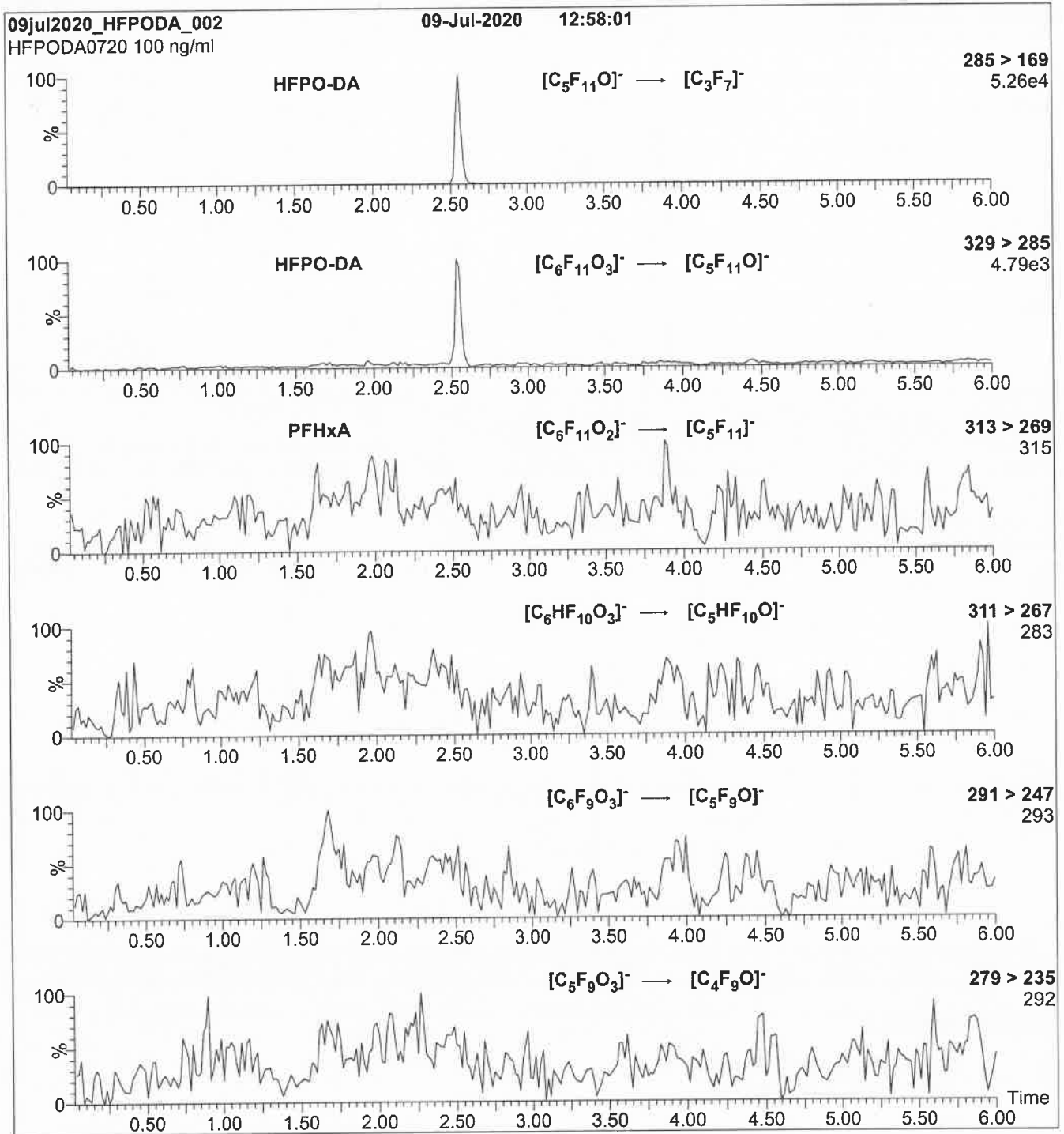
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

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**LCM3HFPO-DA\_00027**

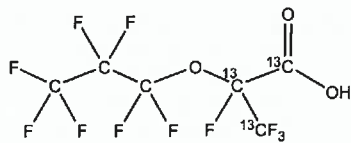


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA1020  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>3</sub><sup>12</sup>C<sub>3</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 333.03  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% **ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
**LAST TESTED:** (mm/dd/yyyy) 10/21/2020 (<sup>13</sup>C<sub>3</sub>)  
**EXPIRY DATE:** (mm/dd/yyyy) 10/21/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

### DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

### ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/23/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com



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### **HANDLING:**

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The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

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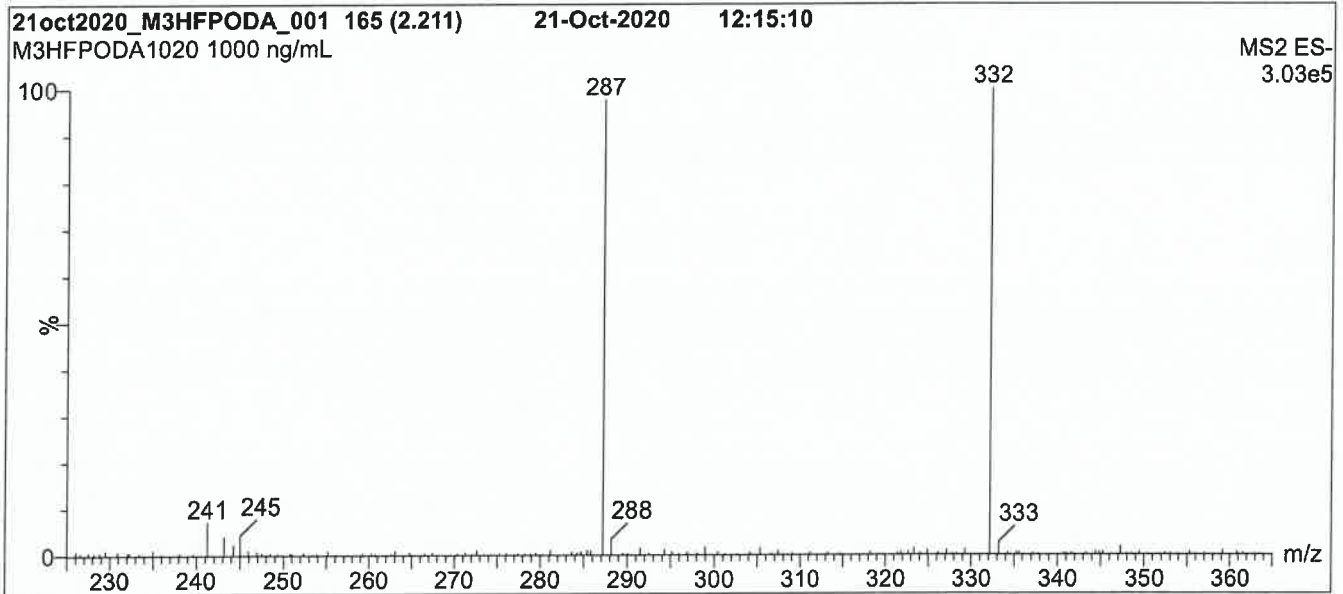
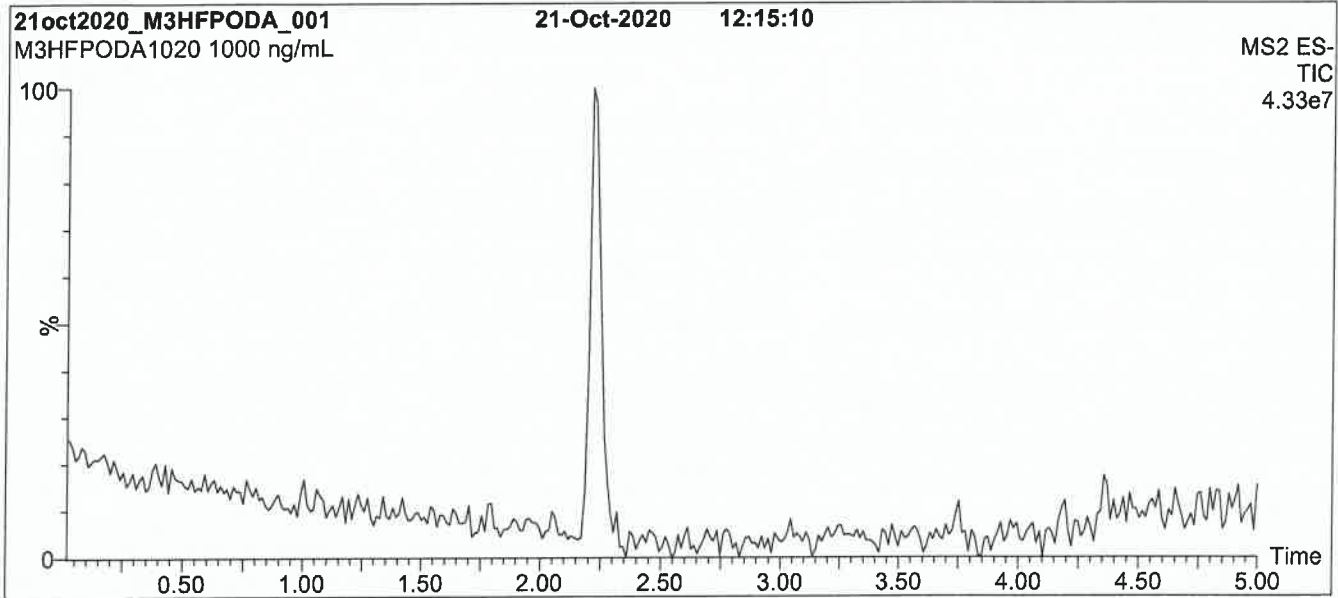
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**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% H<sub>2</sub>O / 50% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

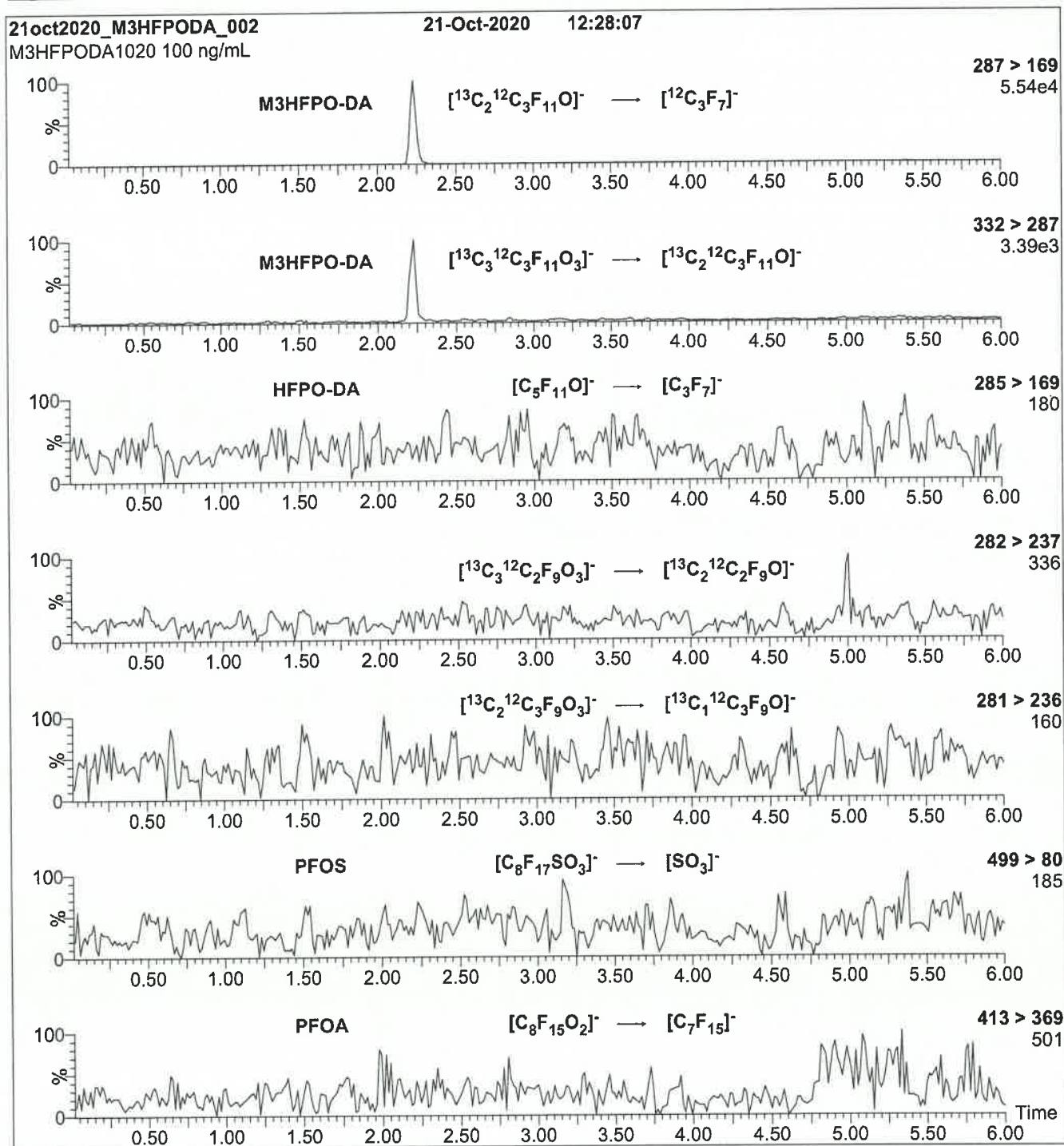
**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.50  
Cone Voltage (V) = 15.00  
Desolvation Temperature ( $^{\circ}$ C) = 300  
Desolvation Gas Flow (L/hr) = 1000

Flow: 300  $\mu$ L/min

**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.41e-3

Collision Energy (eV) = 8

Reagent

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**LCM4PFHPA\_00035**

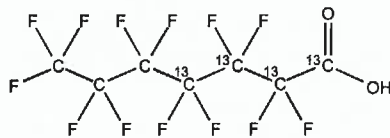


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0920

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 09/29/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 09/29/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)  
**ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/22/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
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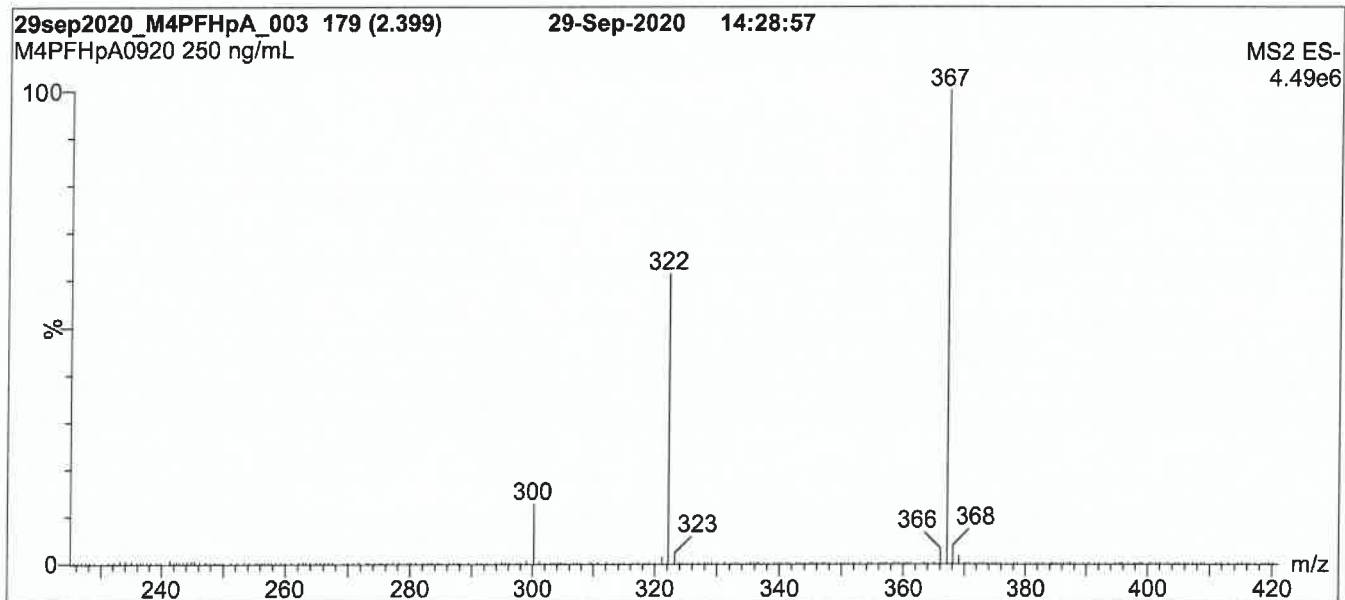
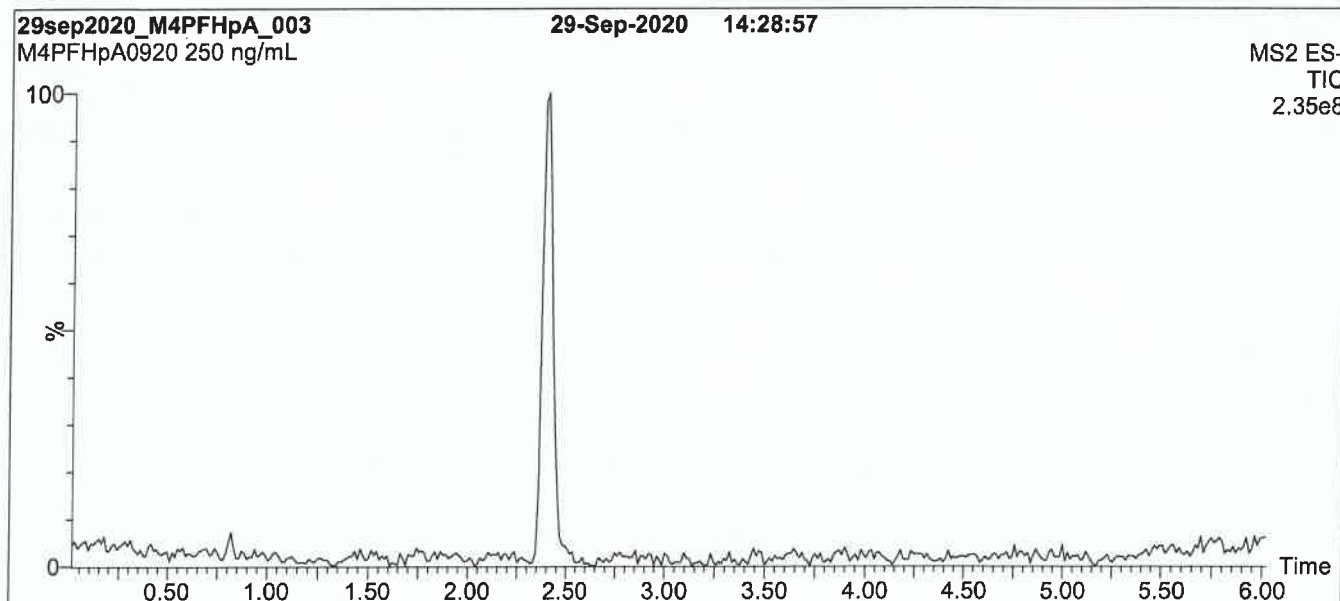
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**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient

Start: 45% H<sub>2</sub>O / 55% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

Flow: 300 μL/min

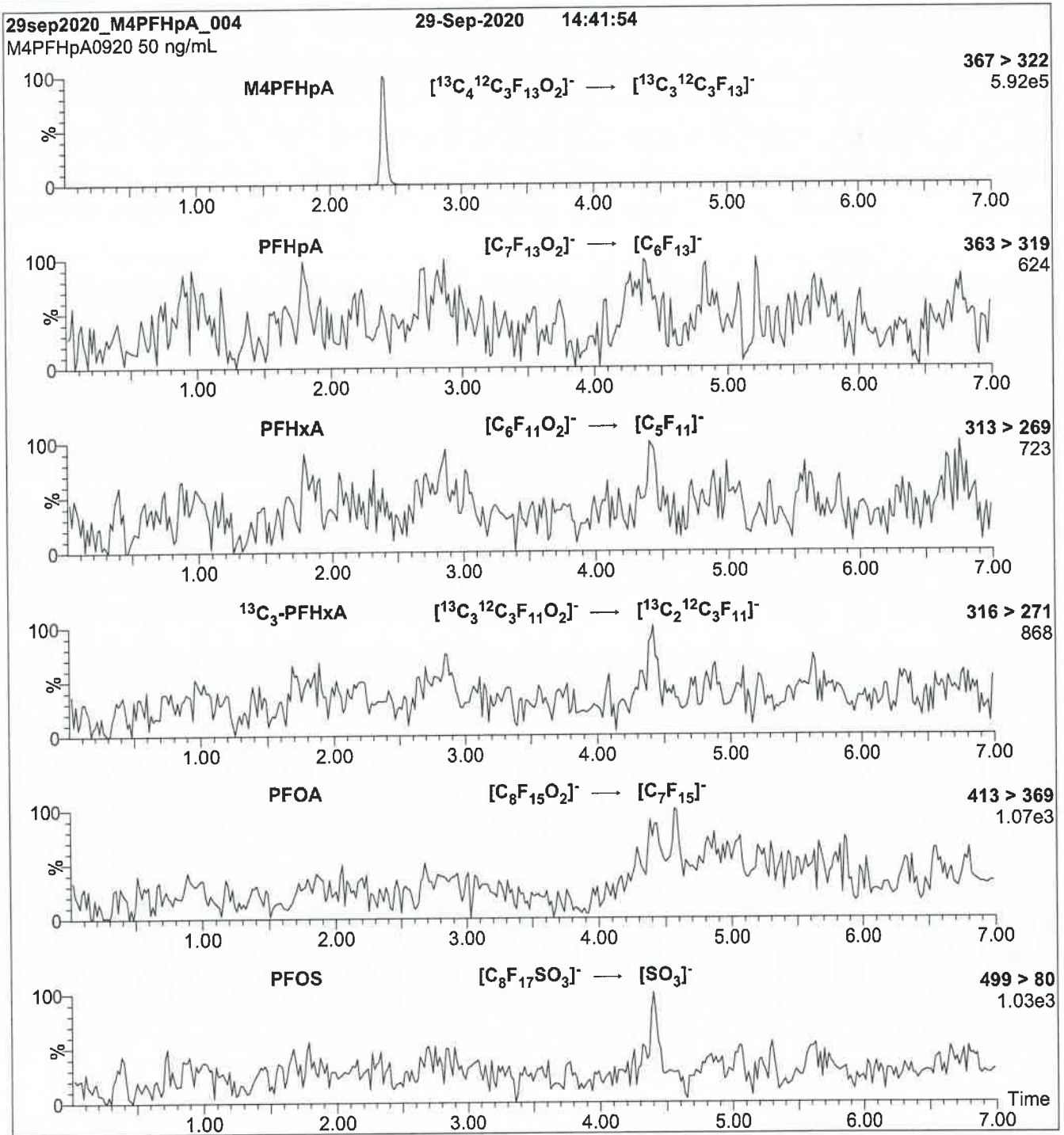
**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature (°C) = 500  
Desolvation Gas Flow (L/hr) = 1000



**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.27e-3

Collision Energy (eV) = 8



Reagent

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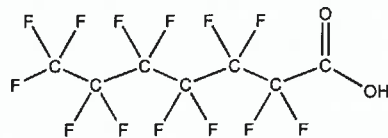
**LCPFHpA\_00020**



# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** PFHpA **LOT NUMBER:** PFHpA0620  
**COMPOUND:** Perfluoro-n-heptanoic acid  
**STRUCTURE:** **CAS #:** 375-85-9



**MOLECULAR FORMULA:**  $C_7HF_{13}O_2$  **MOLECULAR WEIGHT:** 364.06  
**CONCENTRATION:**  $50.0 \pm 2.5 \mu\text{g/ml}$  **SOLVENT(S):** Methanol  
Water (<1%)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

### DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

### ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**  **Date:** 07/22/2020  
B.G. Chittim, General Manager (mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{j=1}^n u(y, x_j)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

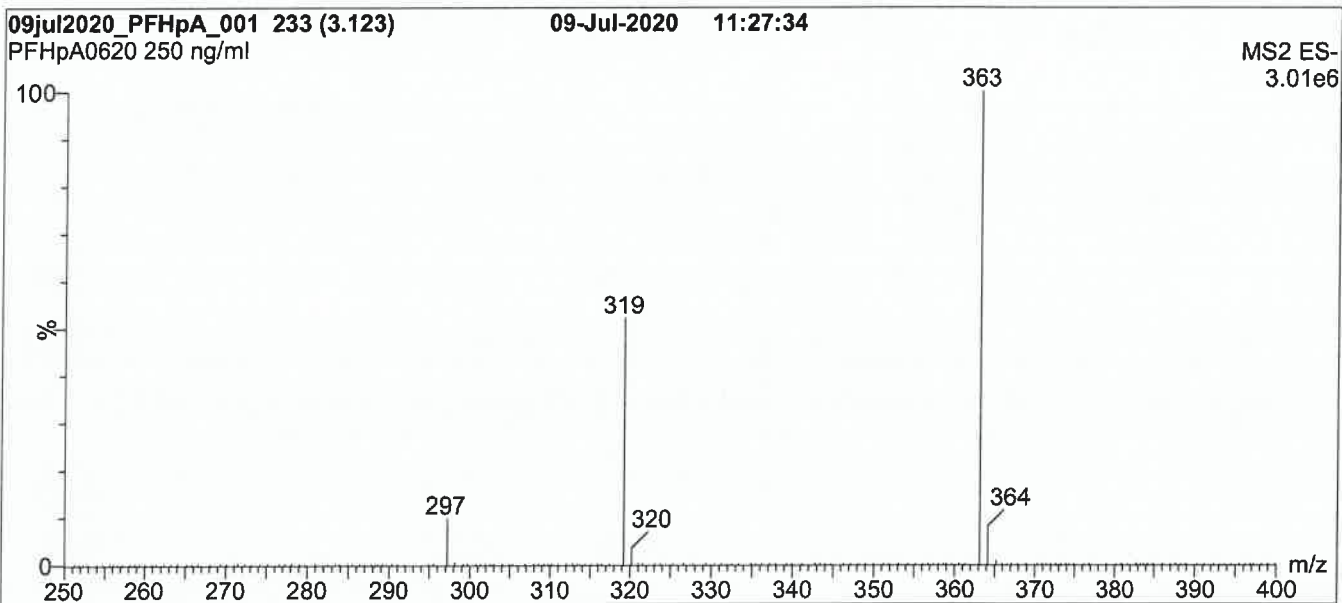
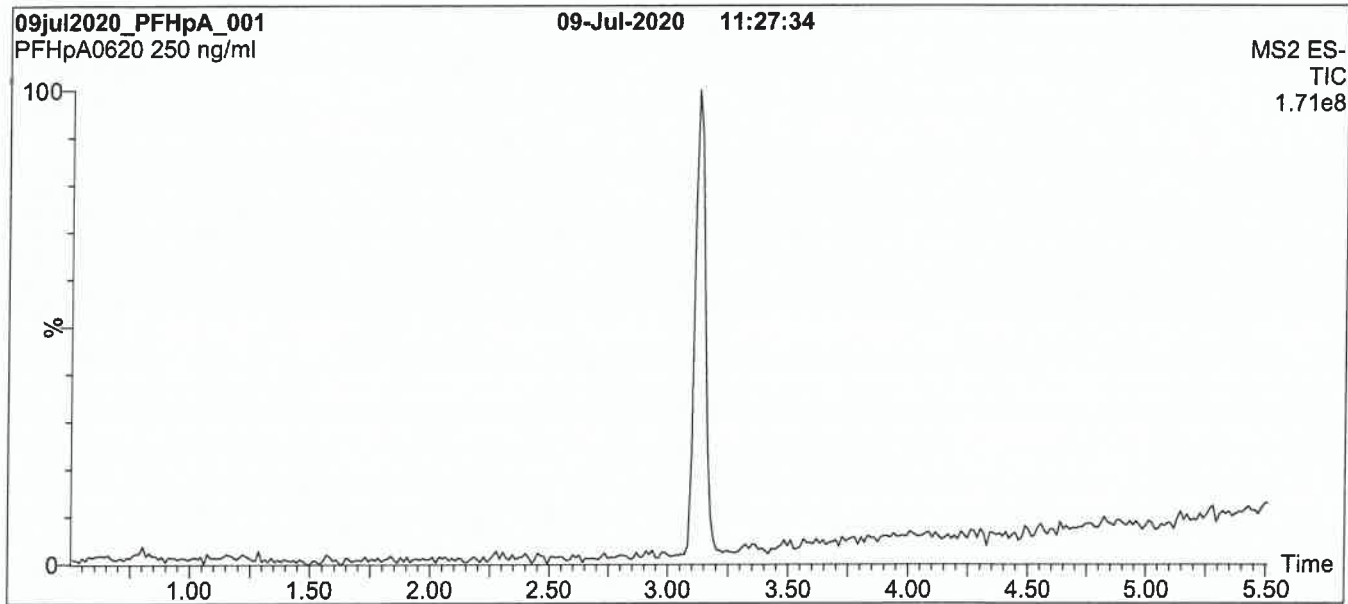
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

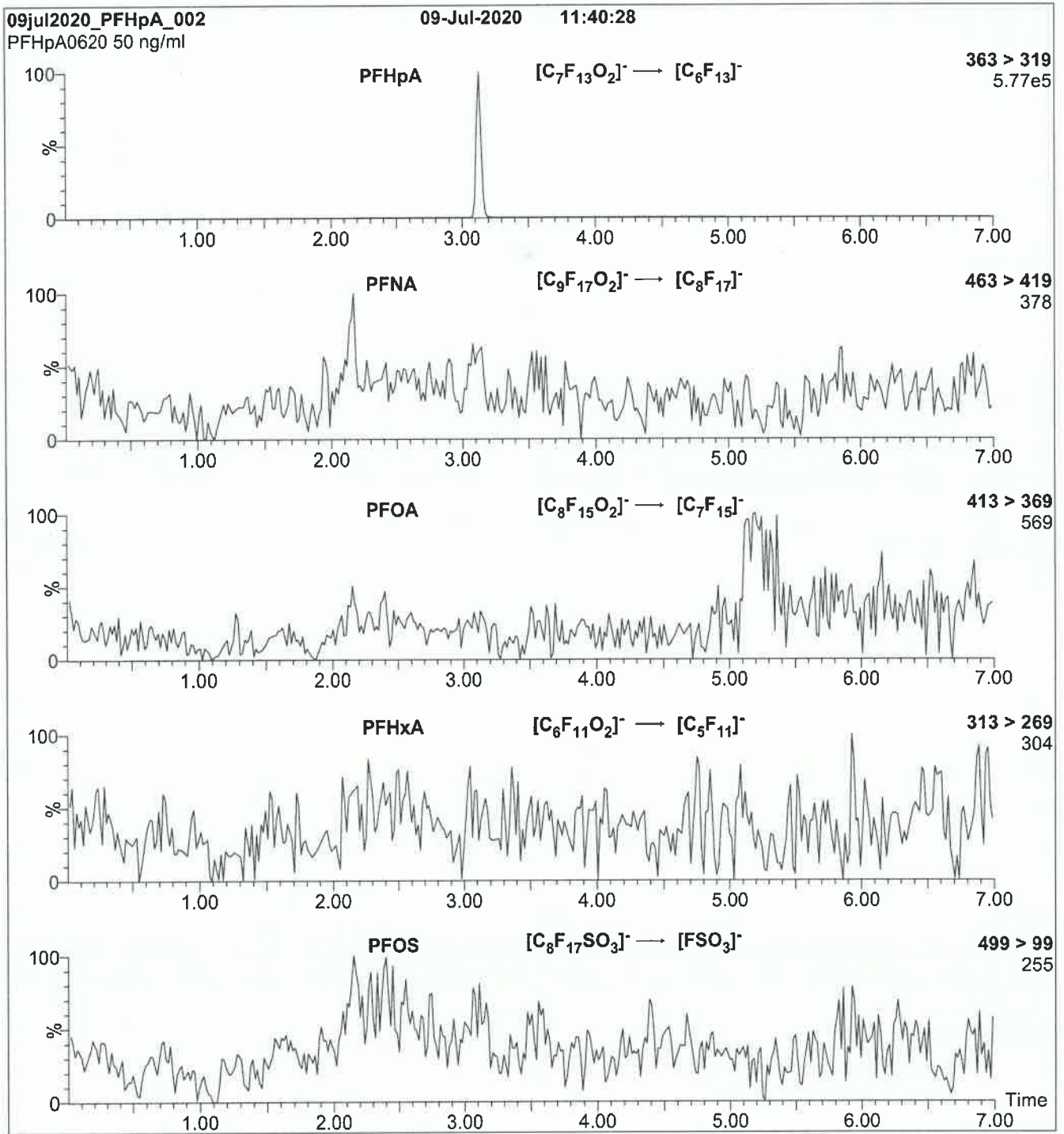
**Flow:** 300 μl/min

**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature (°C) = 500  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

# PFAS\_CHEM\_TB3P

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Fluoroproducts Analytical Method -  
Table 3+

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-EFFLUENT-21 6-012921	320-69608-1	73
SEEP-C-INFLUENT-22 8-012921	320-69608-2	83
SEEP-C-EQBLK-ISCO- 012921	320-69608-3	92
SEEP-C-FBLK-012921	320-69608-4	95
	MB 320-458886/1-A	93
	MB 320-462927/1-A	88
	LCS 320-458886/2-A	89
	LCS 320-462927/2-A	88
	LCSD 320-458886/3-A	93
	LCSD 320-462927/3-A	79

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.02.13\_A12\_TB3\_A\_022.d  
 Lab ID: LCS 320-458886/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.443	89	25-150	
EVE Acid	0.200	0.202	101	70-130	
HFPO-DA	0.200	0.201	100	70-130	
Hydro-EVE Acid	0.200	0.197	98	70-130	
Hydrolyzed PSDA	0.200	0.189	94	50-150	
Hydro-PS Acid	0.200	0.183	91	70-130	
NVHOS	0.200	0.184	92	70-130	
PEPA	0.200	0.184	92	70-130	
PES	0.200	0.194	97	70-130	
PFECA B	0.200	0.193	96	70-130	
PFECA G	0.200	0.189	94	70-130	
PFMOAA	0.200	0.187	93	70-130	
PFO2HxA	0.200	0.204	102	70-130	
PFO3OA	0.200	0.215	107	70-130	
PFO4DA	0.200	0.255	127	50-150	
PFO5DA	0.200	0.183	92	50-150	
PMPA	0.200	0.198	99	70-130	
PS Acid	0.200	0.183	91	70-130	
R-EVE	0.200	0.210	105	50-150	
R-PSDA	0.200	0.183	92	50-150	
R-PSDCA	0.200	0.186	93	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)



FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.02.20\_A12\_TB3\_B\_022.d  
 Lab ID: LCS 320-462927/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.440	88	25-150	
EVE Acid	0.200	0.182	91	70-130	
HFPO-DA	0.200	0.191	96	70-130	
Hydro-EVE Acid	0.200	0.197	99	70-130	
Hydrolyzed PSDA	0.200	0.220	110	50-150	
Hydro-PS Acid	0.200	0.197	98	70-130	
NVHOS	0.200	0.181	91	70-130	
PEPA	0.200	0.172	86	70-130	
PES	0.200	0.195	97	70-130	
PFECA B	0.200	0.195	98	70-130	
PFECA G	0.200	0.147	74	70-130	
PFMOAA	0.200	0.224	112	70-130	
PFO2HxA	0.200	0.202	101	70-130	
PFO3OA	0.200	0.174	87	70-130	
PFO4DA	0.200	0.195	98	50-150	
PFO5DA	0.200	0.164	82	50-150	
PMPA	0.200	0.195	98	70-130	
PS Acid	0.200	0.187	94	70-130	
R-EVE	0.200	0.198	99	50-150	
R-PSDA	0.200	0.186	93	50-150	
R-PSDCA	0.200	0.210	105	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.02.13\_A12\_TB3\_A\_023.d

Lab ID: LCSD 320-458886/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.465	93			25-150	
EVE Acid	0.200	0.215	108	6	25	70-130	
HFPO-DA	0.200	0.195	97	3	25	70-130	
Hydro-EVE Acid	0.200	0.199	100	1	25	70-130	
Hydrolyzed PSDA	0.200	0.191	95	1	25	50-150	
Hydro-PS Acid	0.200	0.186	93	2	25	70-130	
NVHOS	0.200	0.189	94	3	25	70-130	
PEPA	0.200	0.178	89	3	25	70-130	
PES	0.200	0.193	97	0	25	70-130	
PFECA B	0.200	0.196	98	2	25	70-130	
PFECA G	0.200	0.183	91	3	25	70-130	
PFMOAA	0.200	0.188	94	0	25	70-130	
PFO2HxA	0.200	0.198	99	3	25	70-130	
PFO3OA	0.200	0.196	98	9	25	70-130	
PFO4DA	0.200	0.233	117	9	25	50-150	
PFO5DA	0.200	0.173	87	6	25	50-150	
PMPA	0.200	0.194	97	2	25	70-130	
PS Acid	0.200	0.191	96	4	25	70-130	
R-EVE	0.200	0.213	106	1	25	50-150	
R-PSDA	0.200	0.177	88	4	25	50-150	
R-PSDCA	0.200	0.195	97	4	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.02.20\_A12\_TB3\_B\_023.d

Lab ID: LCSD 320-462927/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.394	79			25-150	
EVE Acid	0.200	0.171	86	6	25	70-130	
HFPO-DA	0.200	0.194	97	2	25	70-130	
Hydro-EVE Acid	0.200	0.184	92	7	25	70-130	
Hydrolyzed PSDA	0.200	0.211	105	4	25	50-150	
Hydro-PS Acid	0.200	0.182	91	8	25	70-130	
NVHOS	0.200	0.168	84	8	25	70-130	
PEPA	0.200	0.158	79	8	25	70-130	
PES	0.200	0.169	84	14	25	70-130	
PFECA B	0.200	0.176	88	10	25	70-130	
PFECA G	0.200	0.151	75	2	25	70-130	
PFMOAA	0.200	0.206	103	9	25	70-130	
PFO2HxA	0.200	0.189	95	7	25	70-130	
PFO3OA	0.200	0.161	81	7	25	70-130	
PFO4DA	0.200	0.165	83	17	25	50-150	
PFO5DA	0.200	0.140	70	16	25	50-150	
PMPA	0.200	0.178	89	9	25	70-130	
PS Acid	0.200	0.184	92	2	25	70-130	
R-EVE	0.200	0.187	93	6	25	50-150	
R-PSDA	0.200	0.170	85	9	25	50-150	
R-PSDCA	0.200	0.193	97	8	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.02.13\_A12\_TB3\_A\_014.d      Lab Sample ID: MB 320-458886/1-A  
 Matrix: Water      Date Extracted: 02/04/2021 18:51  
 Instrument ID: A12      Date Analyzed: 02/13/2021 10:12  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-EQBLK-ISCO-012921	320-69608-3	2021.02.13_A12_TB3_A_017.d	02/13/2021 11:05
SEEP-C-FBLK-012921	320-69608-4	2021.02.13_A12_TB3_A_018.d	02/13/2021 11:23
	LCS 320-458886/2-A	2021.02.13_A12_TB3_A_022.d	02/13/2021 12:33
	LCSD 320-458886/3-A	2021.02.13_A12_TB3_A_023.d	02/13/2021 12:51

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.02.20\_A12\_TB3\_B\_014.d      Lab Sample ID: MB 320-462927/1-A  
 Matrix: Water      Date Extracted: 02/17/2021 18:36  
 Instrument ID: A12      Date Analyzed: 02/21/2021 04:41  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-EFFLUENT-216-012921	320-69608-1	2021.02.20_A12_TB3_B_015.d	02/21/2021 04:58
SEEP-C-INFLUENT-228-012921	320-69608-2	2021.02.20_A12_TB3_B_016.d	02/21/2021 05:16
	LCS 320-462927/2-A	2021.02.20_A12_TB3_B_022.d	02/21/2021 07:02
	LCSD 320-462927/3-A	2021.02.20_A12_TB3_B_023.d	02/21/2021 07:20



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_015.d  
 Lims ID: 320-69608-A-1-B  
 Client ID: SEEP-C-EFFLUENT-216-012921  
 Sample Type: Client  
 Inject. Date: 21-Feb-2021 04:58:58 ALS Bottle#: 15 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69608-a-1-b RI  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:45:27 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:45:27  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.294	3.535	-0.241		5157691	0.4234		222		M
2 R-EVE										M
405.00 > 217.00	6.128	6.229	-0.101		29551	0.005011		249		M
3 R-PSDA										M
440.90 > 241.00	6.188	6.289	-0.101		13300	0.004565		138		M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.267	6.369	-0.102		75131	0.008914		980		
23 PMPA										M
229.00 > 185.00	6.486	6.568	-0.082		1132223	0.0462		474		M
5 NVHOS										M
297.00 > 135.00	6.945	6.994	-0.049		29973	0.003170		405		M
6 PFO2HxA										
245.00 > 85.00	7.589	7.620	-0.031		2129476	0.1188		11382		
22 PEPA										
278.90 > 234.90	8.188	8.189	-0.001		134747	0.0128		350		
9 PFO3OA										
310.90 > 85.00	8.923	8.957	-0.034		230957	0.0288		3603		
11 HPFO-DA										
285.00 > 169.00	9.018	9.048	-0.030	1.000	812916	0.1042		21891		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.018	9.048	-0.030		1737912	0.1830		73.2	46728	
12 R-PSDCA										M
397.00 > 217.00	9.394	9.396	-0.002		5496	0.00008984		106		M
13 Hydro-EVE Acid										
427.00 > 282.90	9.426	9.428	-0.002		548592	0.007056		7500		
15 Hydro-PS Acid										
463.00 > 262.90	9.459	9.461	-0.002		57919	0.001802		1286		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
18 PFO4DA										
376.90 > 85.00	9.704	9.705	-0.001		109272	0.0134			1852	

**QC Flag Legend**

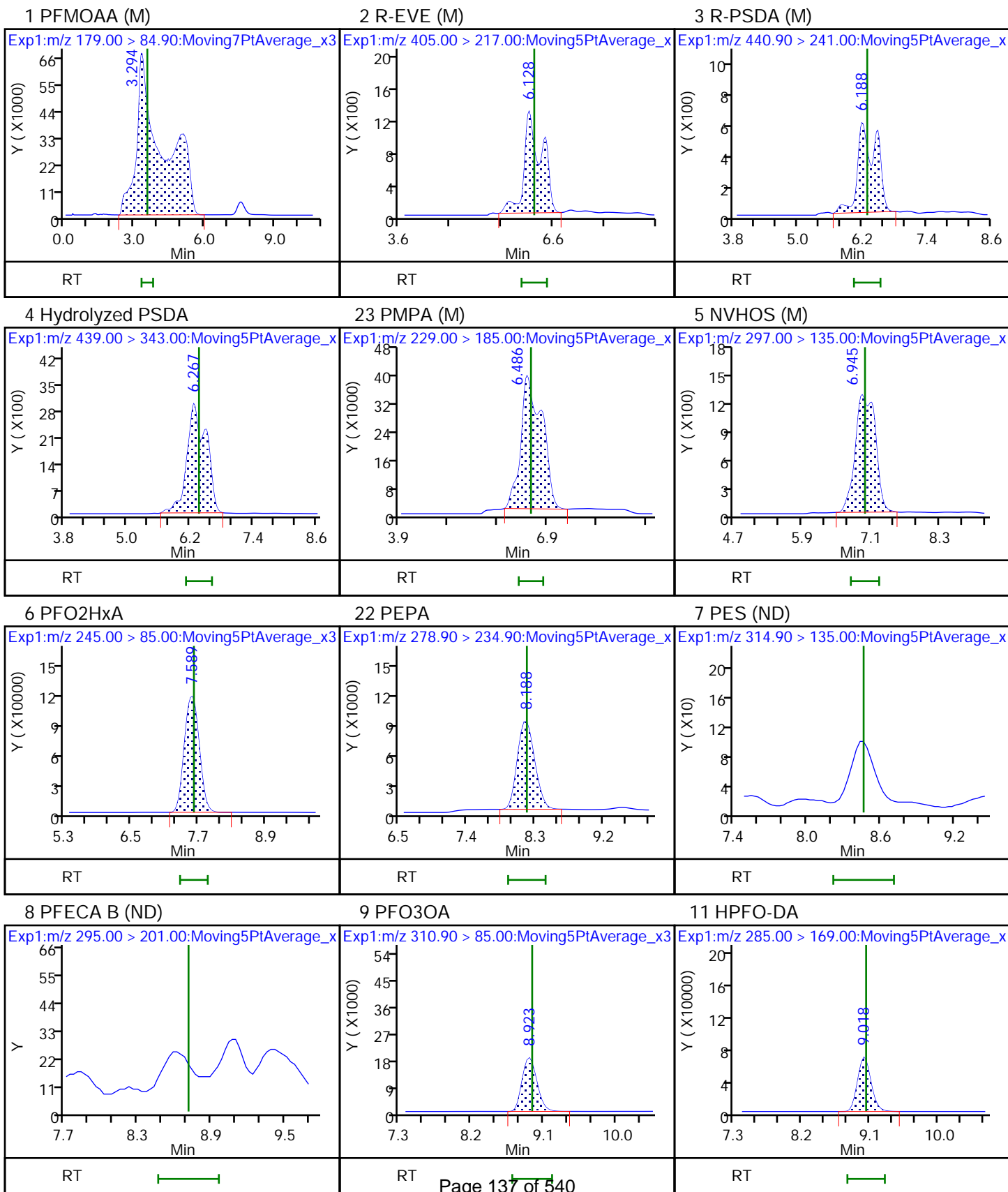
Processing Flags

Review Flags

M - Manually Integrated



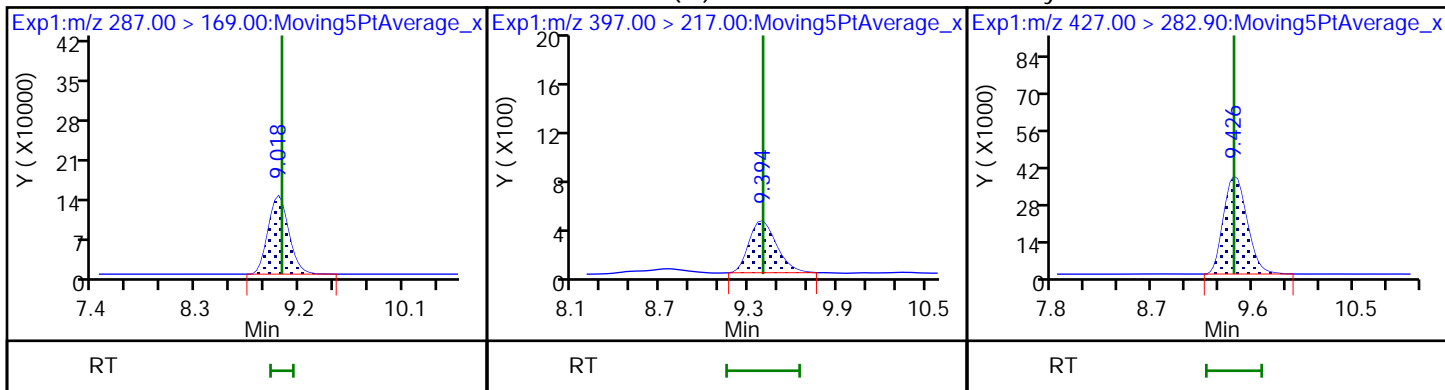
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Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA (M)

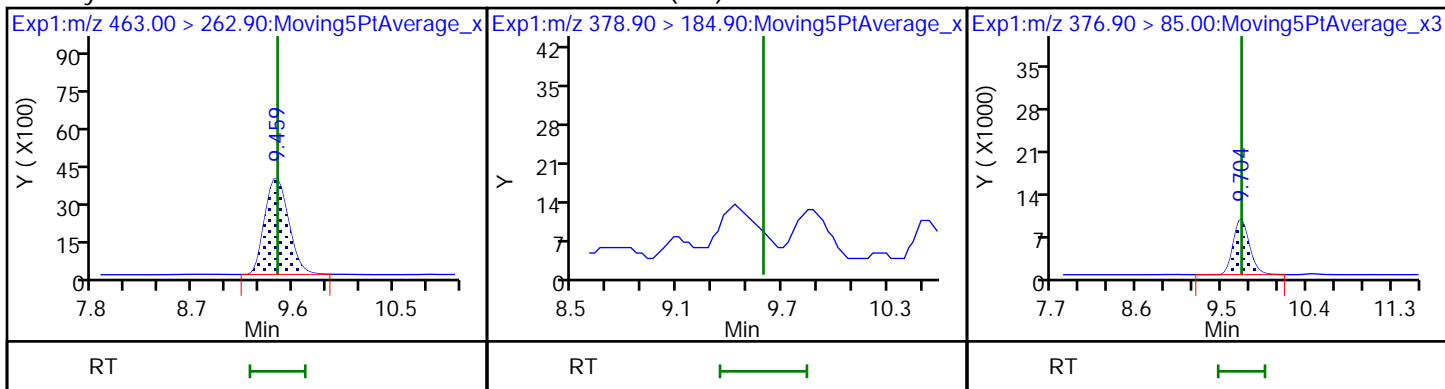
13 Hydro-EVE Acid



15 Hydro-PS Acid

17 PFECA G (ND)

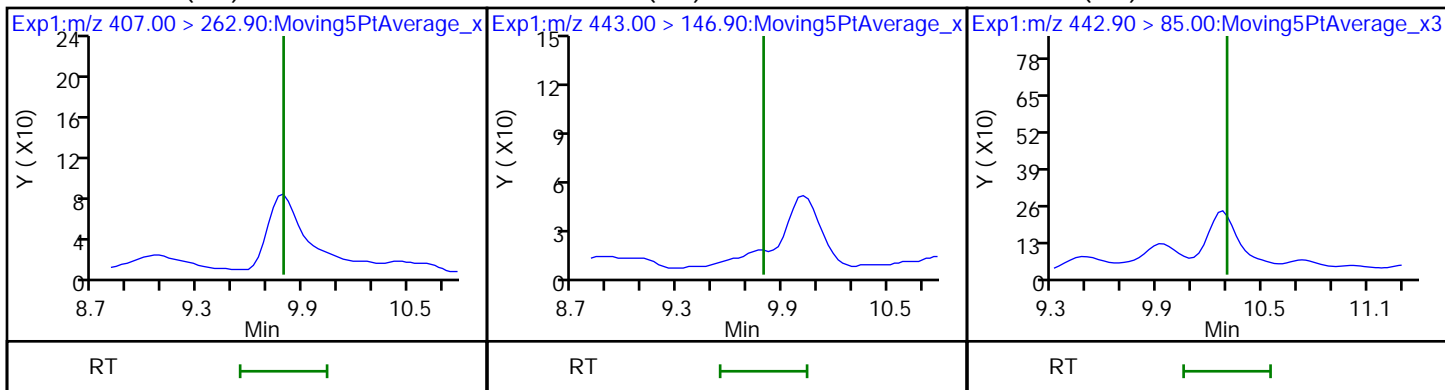
18 PFO4DA



20 EVE Acid (ND)

19 PS Acid (ND)

21 TAF (ND)



Eurofins TestAmerica, Sacramento

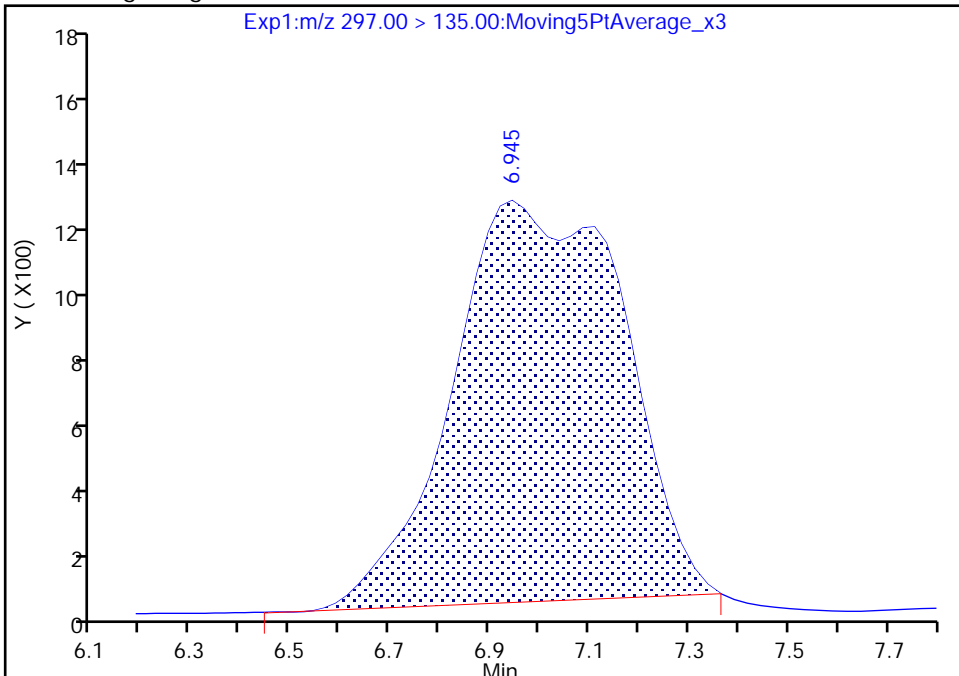
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_015.d  
Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

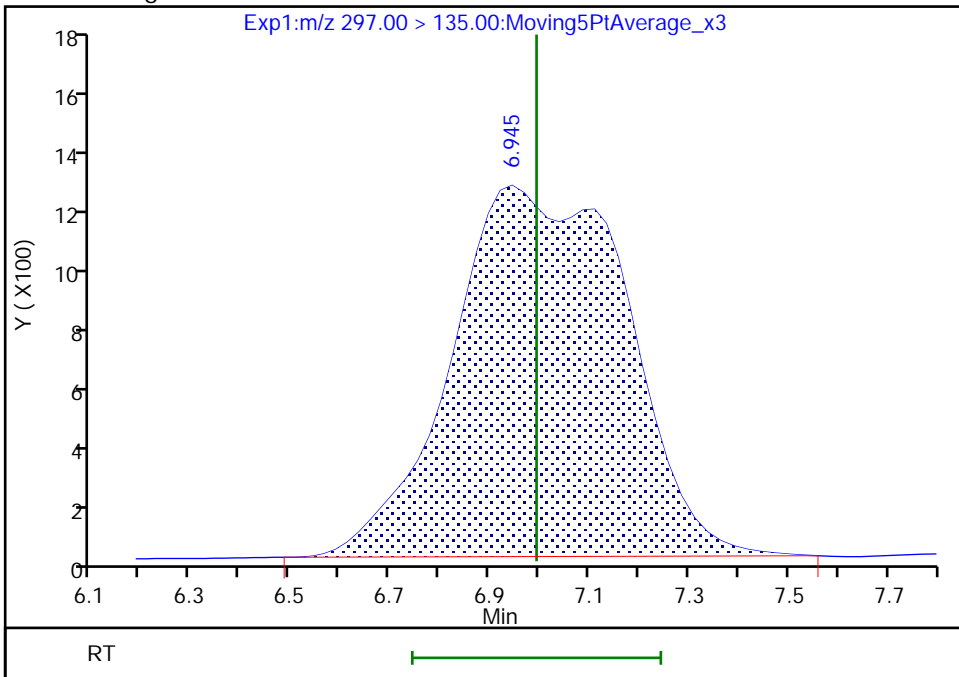
RT: 6.94  
Area: 28495  
Amount: 0.003013  
Amount Units: ng/ml

Processing Integration Results



RT: 6.94  
Area: 29973  
Amount: 0.003170  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:45:07  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

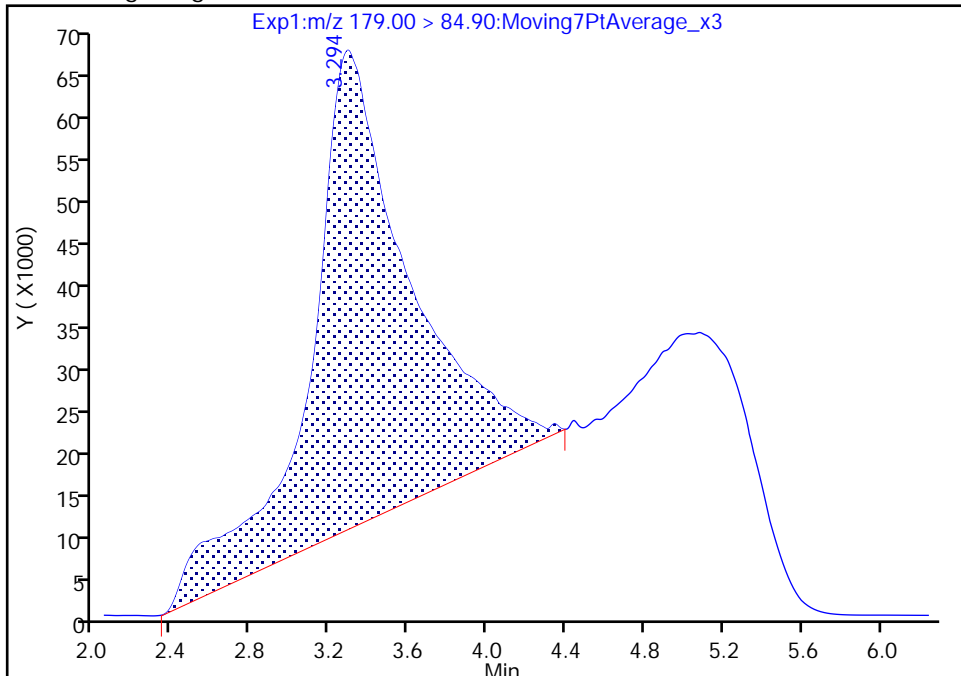
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_015.d  
Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

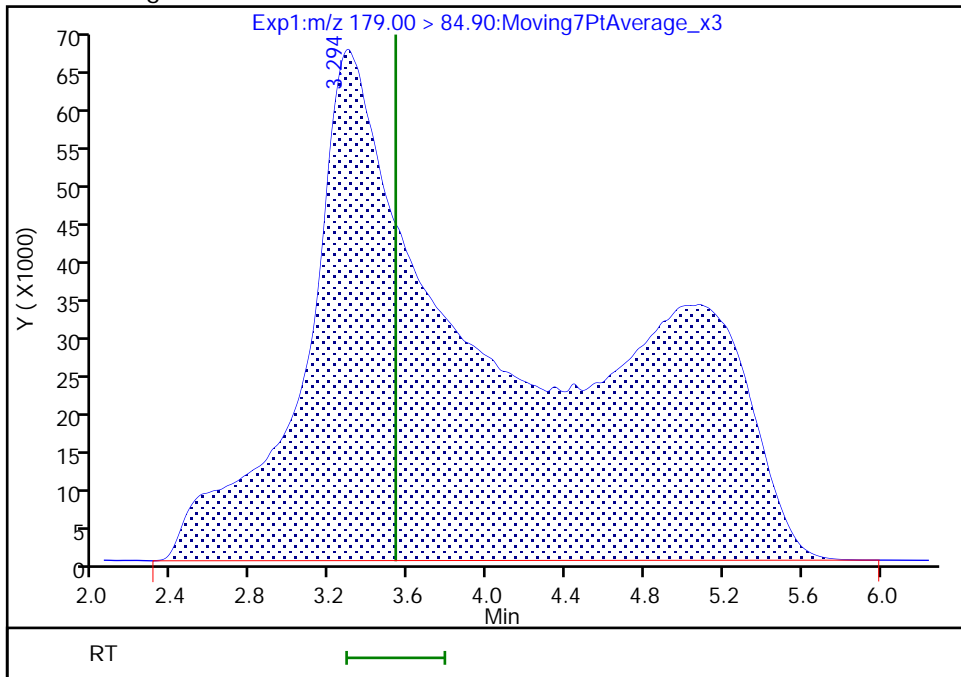
RT: 3.29  
Area: 2041100  
Amount: 0.167540  
Amount Units: ng/ml

Processing Integration Results



RT: 3.29  
Area: 5157691  
Amount: 0.423359  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:44:49  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 140 of 540

Eurofins TestAmerica, Sacramento

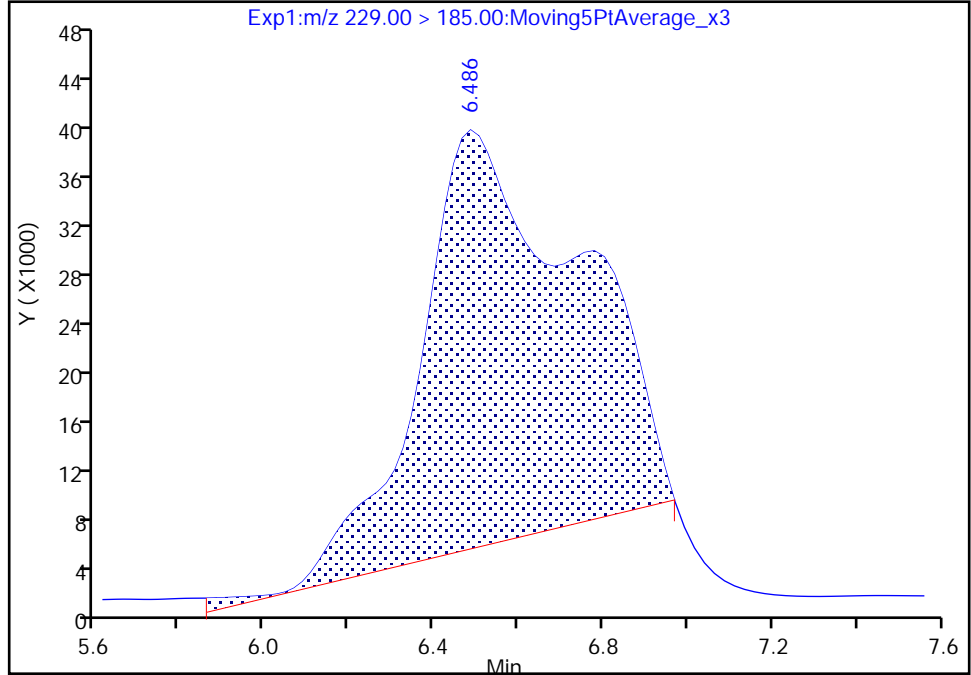
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Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

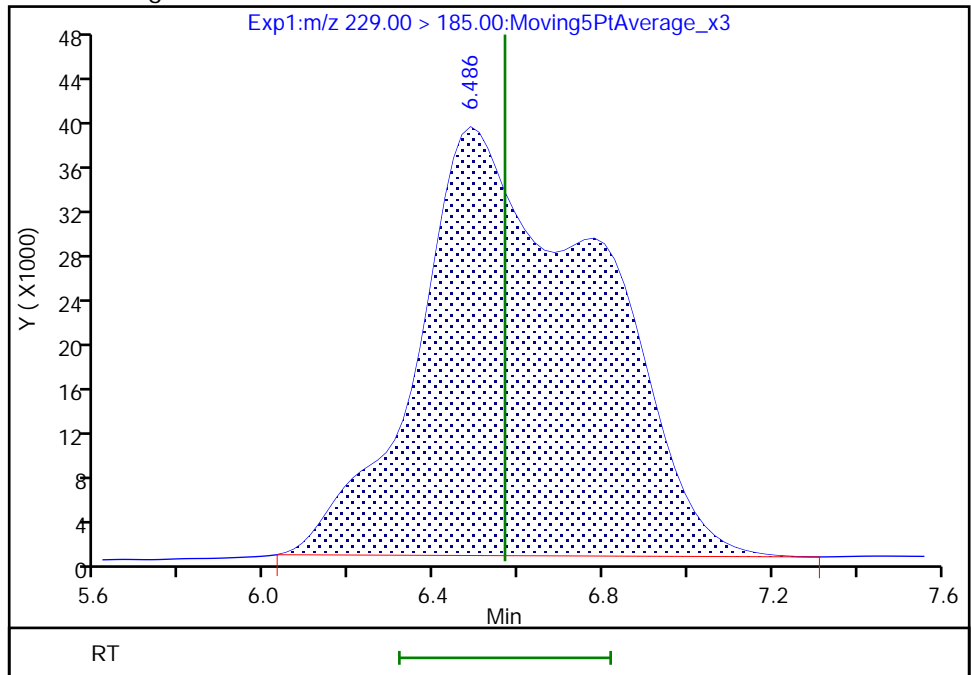
RT: 6.49  
Area: 890074  
Amount: 0.036306  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
Area: 1132223  
Amount: 0.046183  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:45:03

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

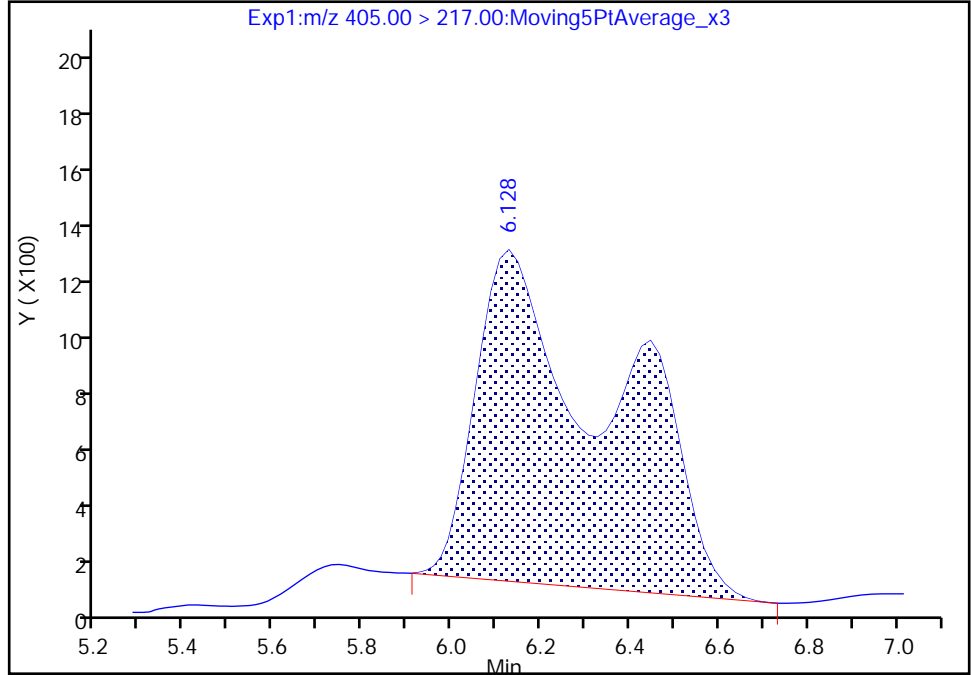
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Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

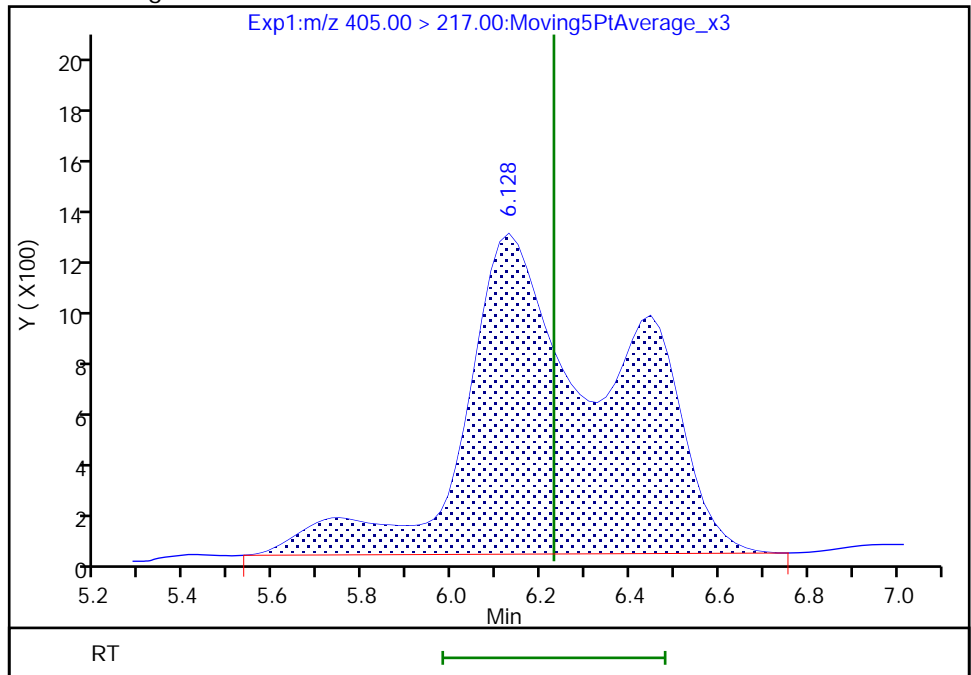
RT: 6.13  
Area: 24715  
Amount: 0.004191  
Amount Units: ng/ml

Processing Integration Results



RT: 6.13  
Area: 29551  
Amount: 0.005011  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:44:53  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

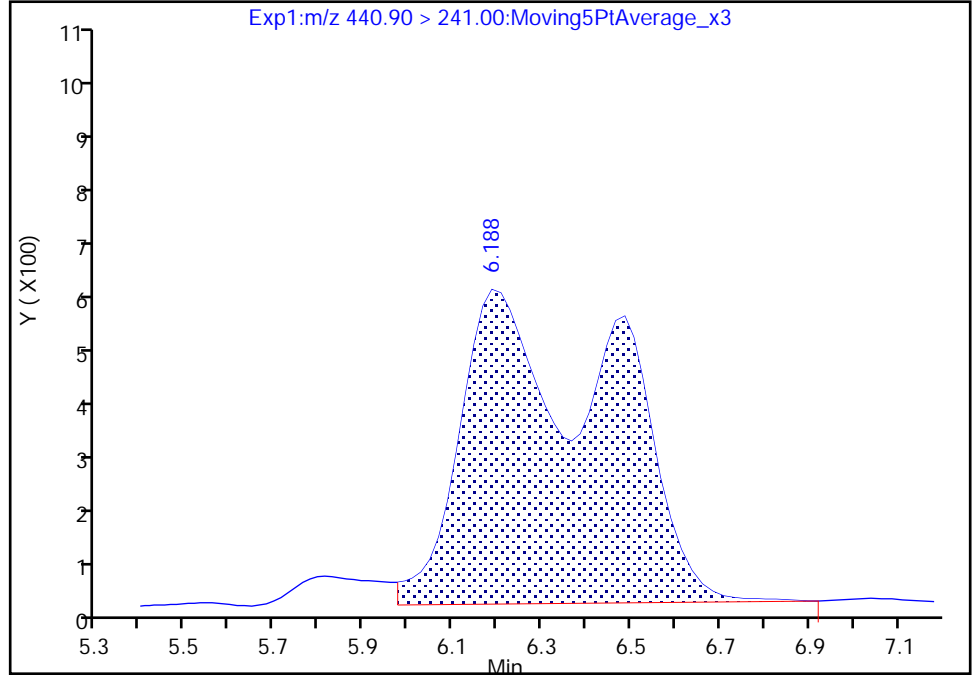
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Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

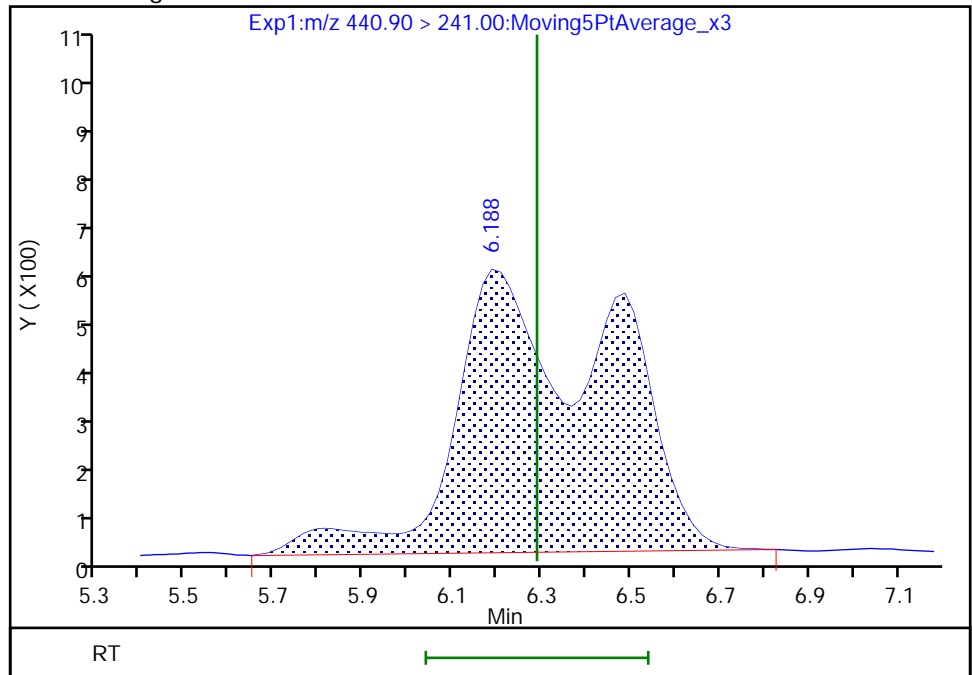
RT: 6.19  
Area: 12762  
Amount: 0.004380  
Amount Units: ng/ml

Processing Integration Results



RT: 6.19  
Area: 13300  
Amount: 0.004565  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

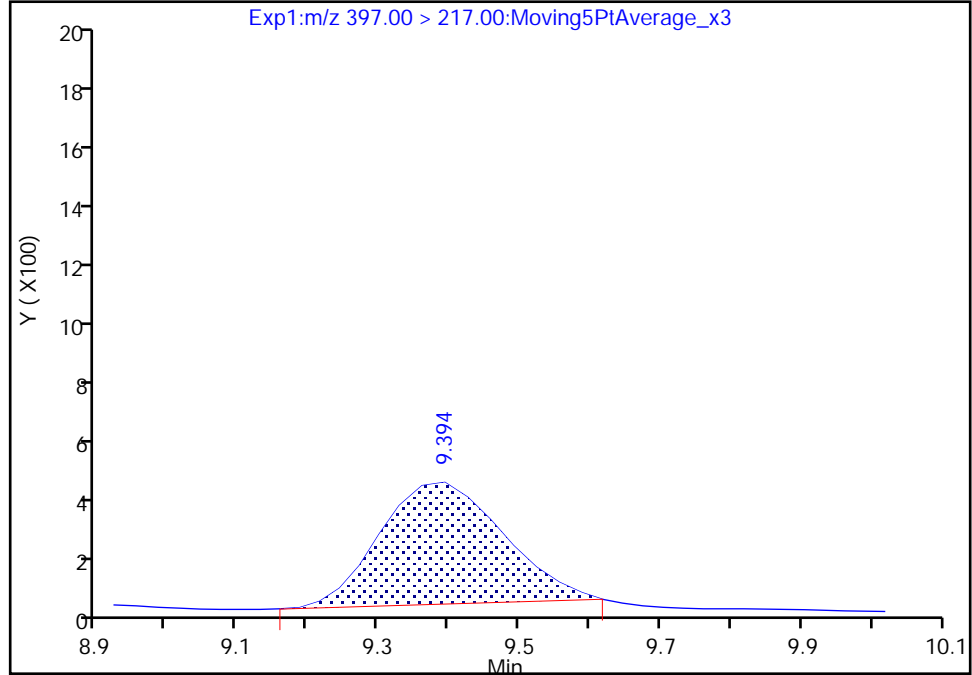
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Injection Date: 21-Feb-2021 04:58:58 Instrument ID: A12  
Lims ID: 320-69608-A-1-B Lab Sample ID: 320-69608-1  
Client ID: SEEP-C-EFFLUENT-216-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

12 R-PSDCA, CAS: 2416366-21-5

Signal: 1

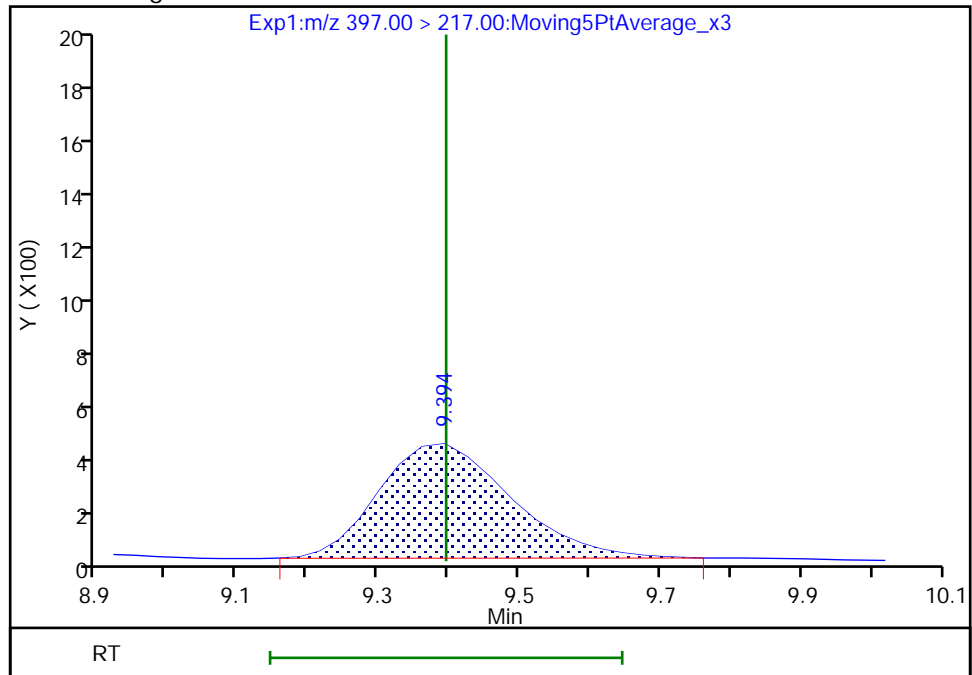
RT: 9.39  
Area: 4963  
Amount: 0.000081  
Amount Units: ng/ml

Processing Integration Results



RT: 9.39  
Area: 5496  
Amount: 0.000090  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:45:17

Audit Action: Manually Integrated

Audit Reason: Baseline





Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_016.d  
 Lims ID: 320-69608-A-2-B  
 Client ID: SEEP-C-INFLUENT-228-012921  
 Sample Type: Client  
 Inject. Date: 21-Feb-2021 05:16:41 ALS Bottle#: 16 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69608-a-2-b RI  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:46:13 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:46:13  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.901	3.535	0.366		5108848	0.4194		596		M
2 R-EVE										M
405.00 > 217.00	6.267	6.229	0.038		24166	0.004098		412		M
3 R-PSDA										M
440.90 > 241.00	6.327	6.289	0.038		11439	0.003926		197		M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.387	6.369	0.018		52725	0.006256		974		
23 PMPA										M
229.00 > 185.00	6.590	6.568	0.022		1071765	0.0437		636		M
5 NVHOS										
297.00 > 135.00	7.016	6.994	0.022		30708	0.003247		603		
6 PFO2HxA										
245.00 > 85.00	7.589	7.620	-0.031		2157911	0.1204		14099		
22 PEPA										
278.90 > 234.90	8.187	8.189	-0.002		130638	0.0124		330		
9 PFO3OA										
310.90 > 85.00	8.922	8.957	-0.035		229820	0.0287		3604		
11 HPFO-DA										
285.00 > 169.00	9.017	9.048	-0.031	1.000	780495	0.0887		21206		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.017	9.048	-0.031		1960601	0.2065		82.6	53138	
12 R-PSDCA										M
397.00 > 217.00	9.360	9.396	-0.036		4399	0.00007191		115		M
13 Hydro-EVE Acid										
427.00 > 282.90	9.425	9.428	-0.003		462663	0.005951		5266		
15 Hydro-PS Acid										
463.00 > 262.90	9.458	9.461	-0.003		48781	0.001517		1074		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
18 PFO4DA										
376.90 > 85.00	9.702	9.705	-0.003		102073	0.0125			2138	

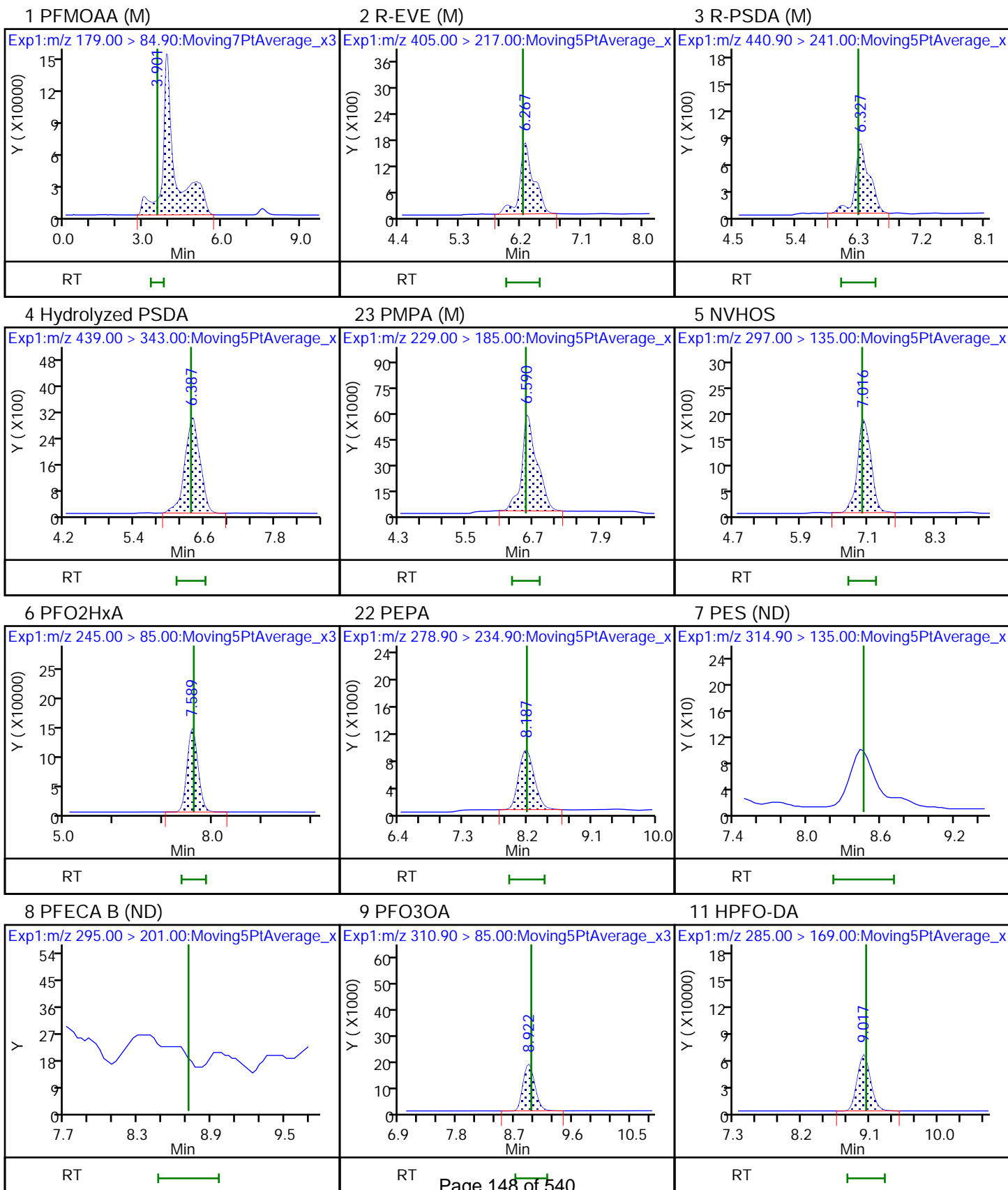
**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

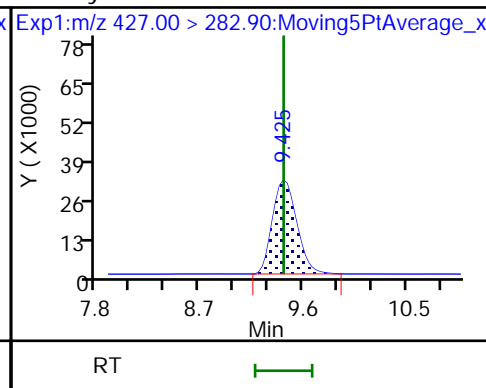
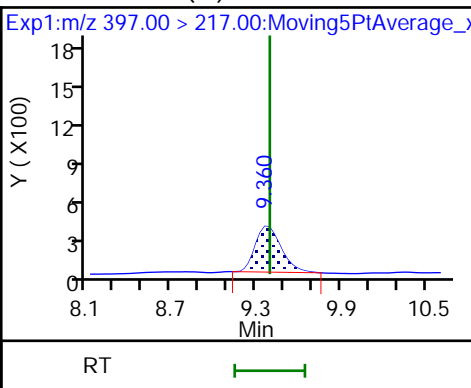
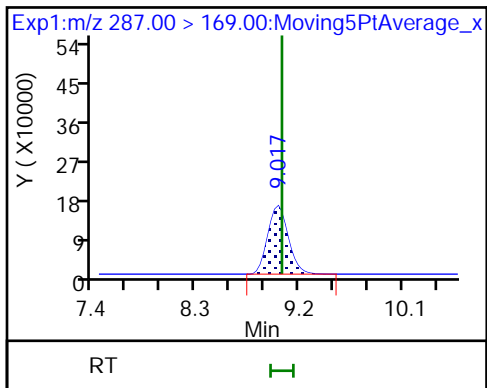
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Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA (M)

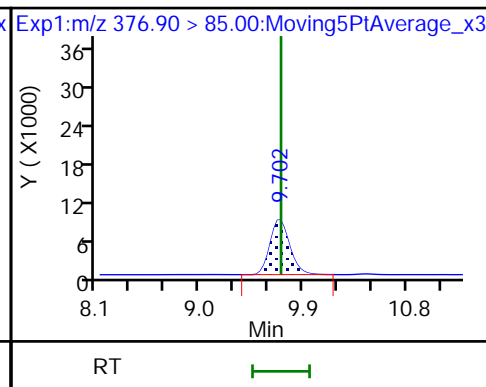
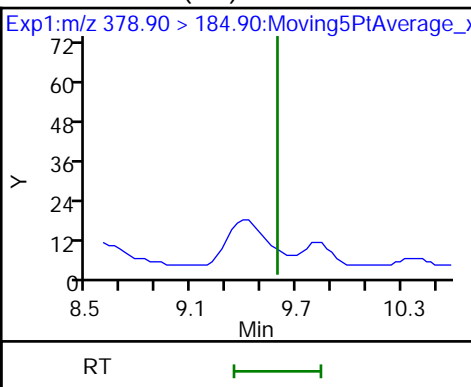
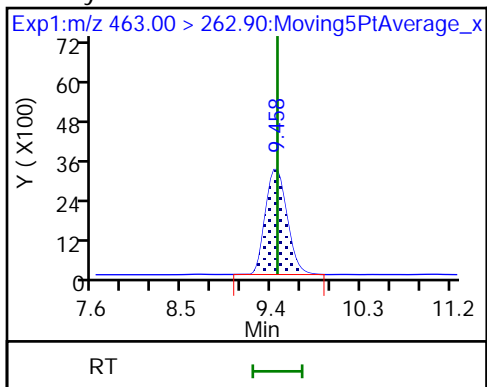
13 Hydro-EVE Acid



15 Hydro-PS Acid

17 PFECA G (ND)

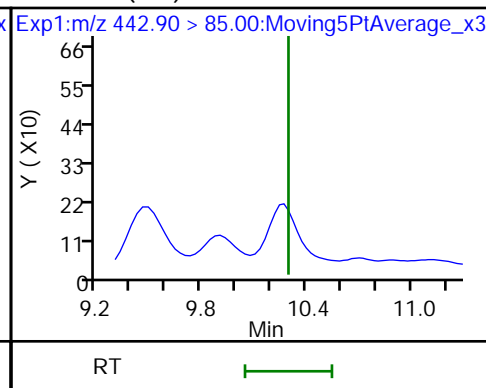
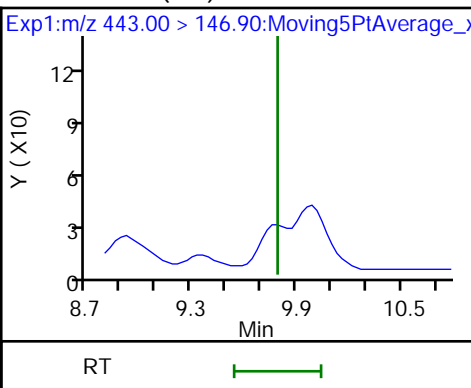
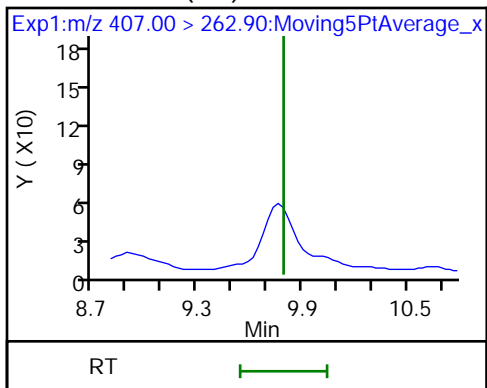
18 PFO4DA



20 EVE Acid (ND)

19 PS Acid (ND)

21 TAF (ND)



Eurofins TestAmerica, Sacramento

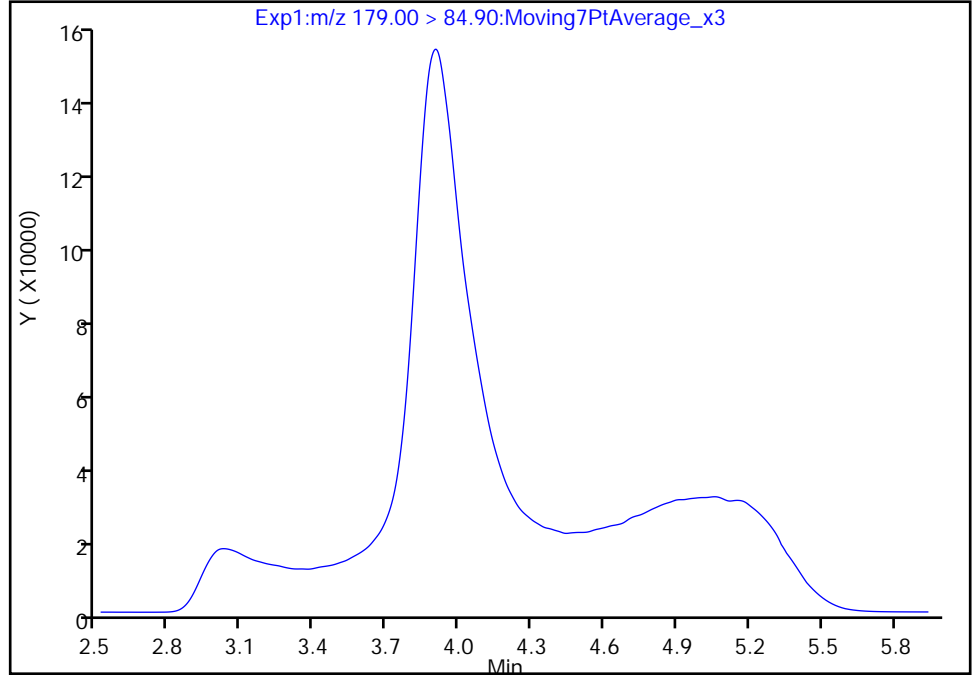
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_016.d  
Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

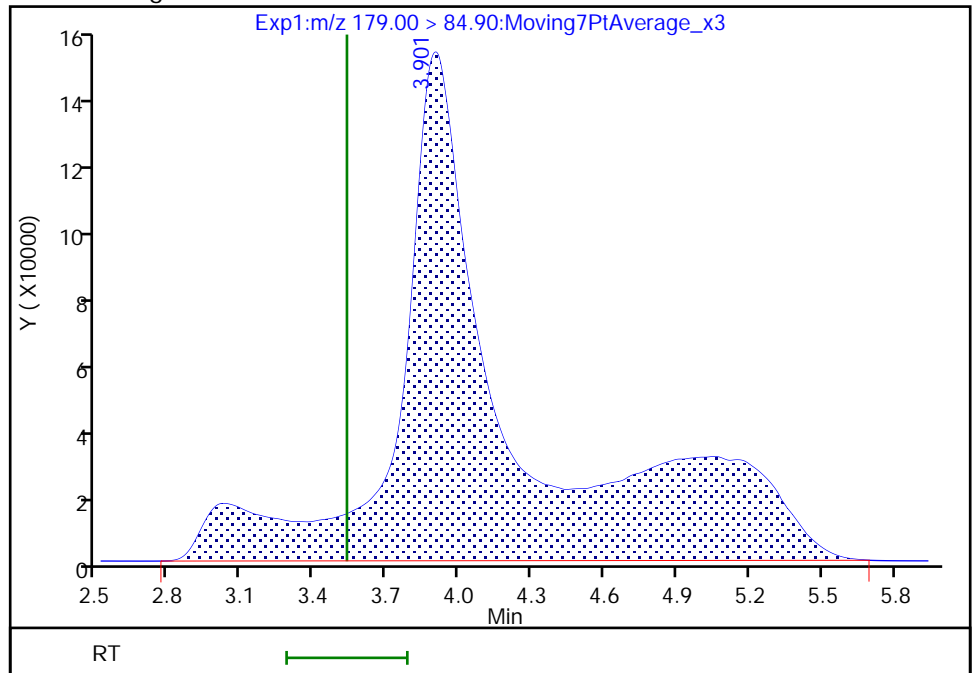
Not Detected  
Expected RT: 3.53

Processing Integration Results



RT: 3.90  
Area: 5108848  
Amount: 0.419350  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

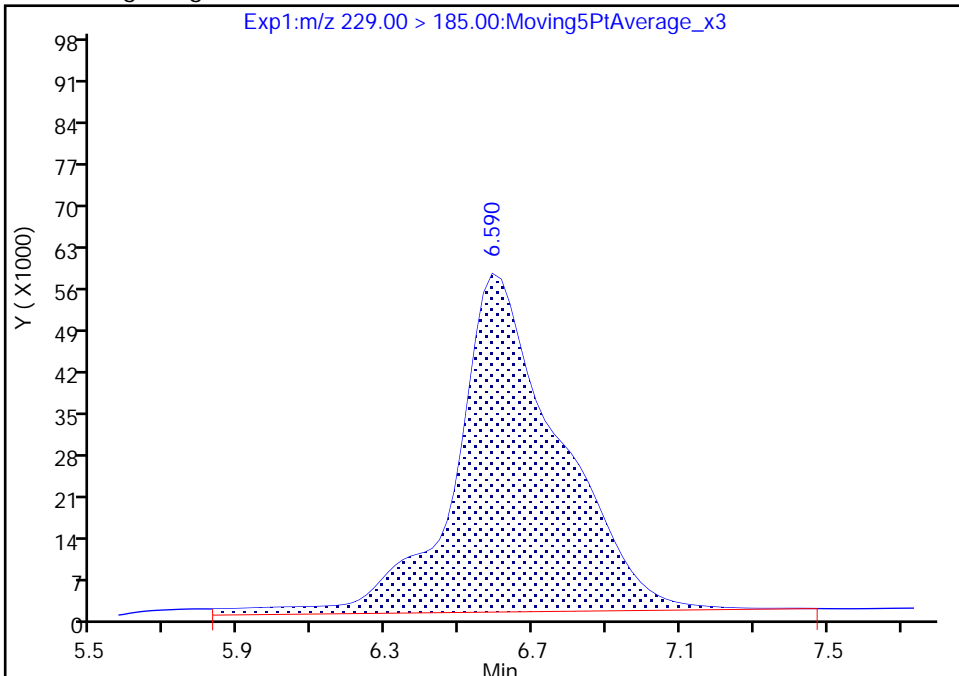
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Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

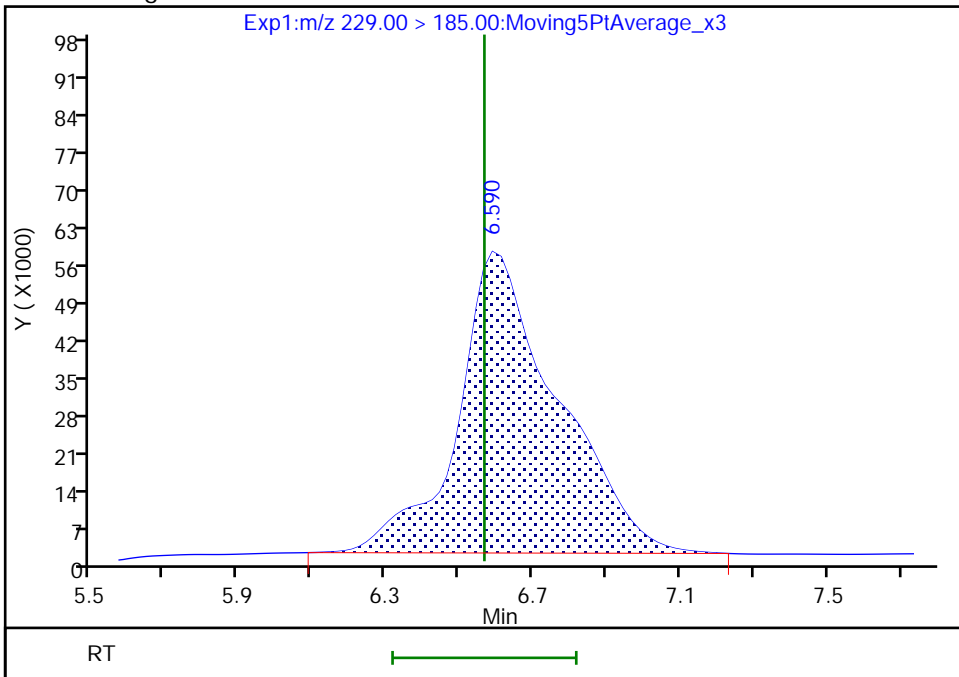
RT: 6.59  
Area: 1143788  
Amount: 0.046654  
Amount Units: ng/ml

Processing Integration Results



RT: 6.59  
Area: 1071765  
Amount: 0.043717  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

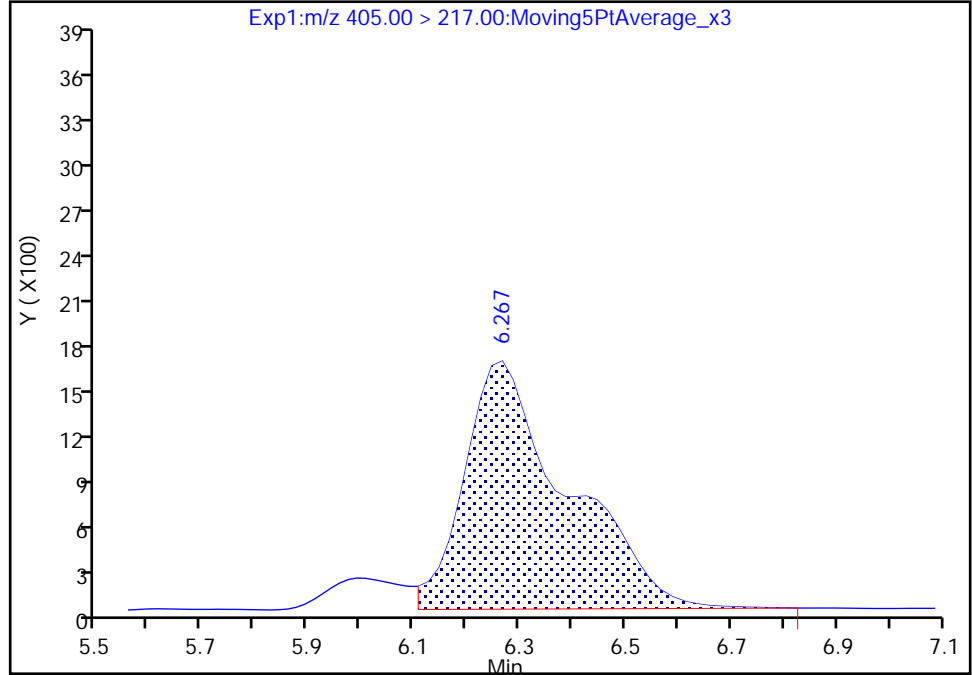
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Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

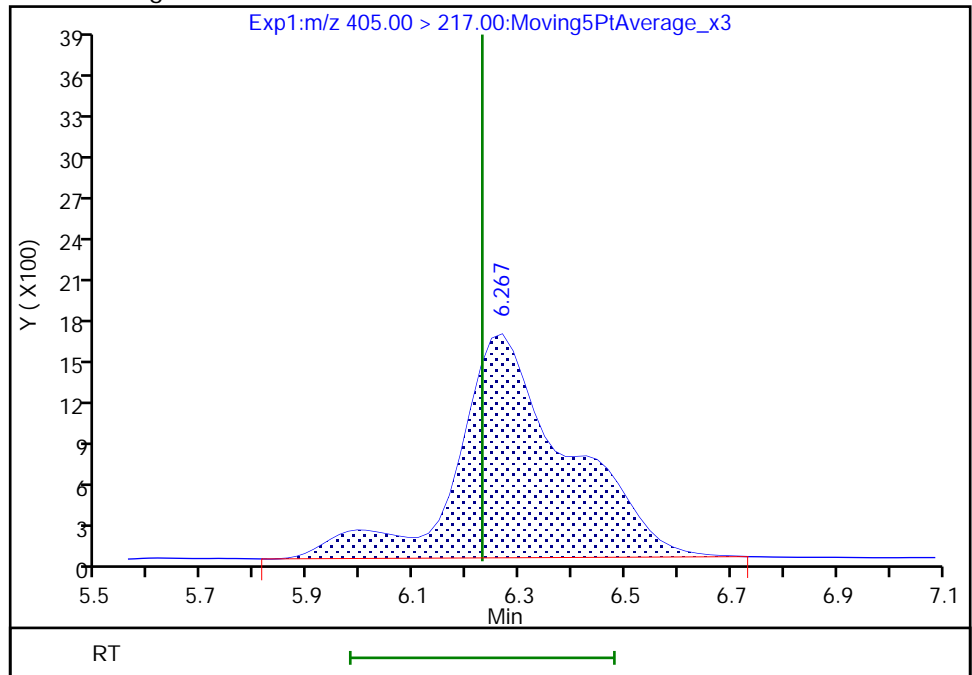
RT: 6.27  
Area: 22290  
Amount: 0.003780  
Amount Units: ng/ml

Processing Integration Results



RT: 6.27  
Area: 24166  
Amount: 0.004098  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:45:41

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

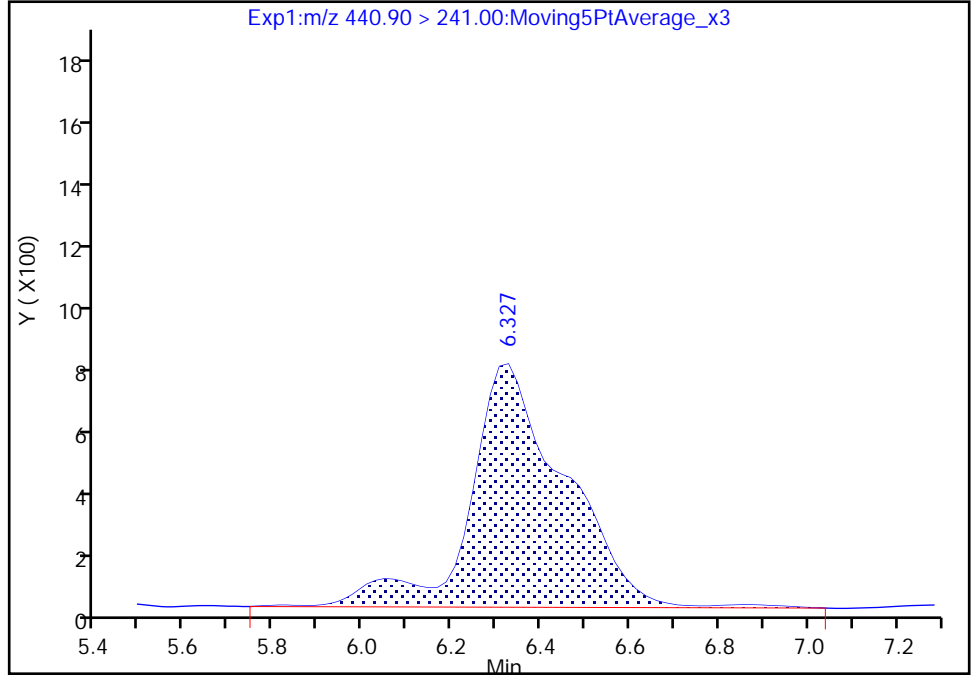
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Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

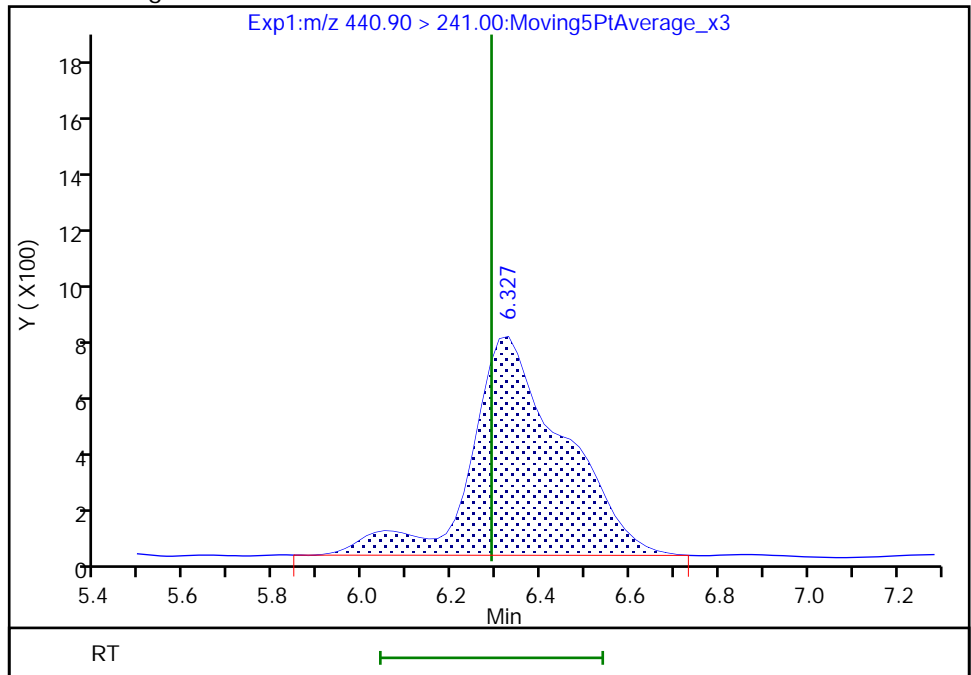
RT: 6.33  
Area: 11805  
Amount: 0.004052  
Amount Units: ng/ml

Processing Integration Results



RT: 6.33  
Area: 11439  
Amount: 0.003926  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

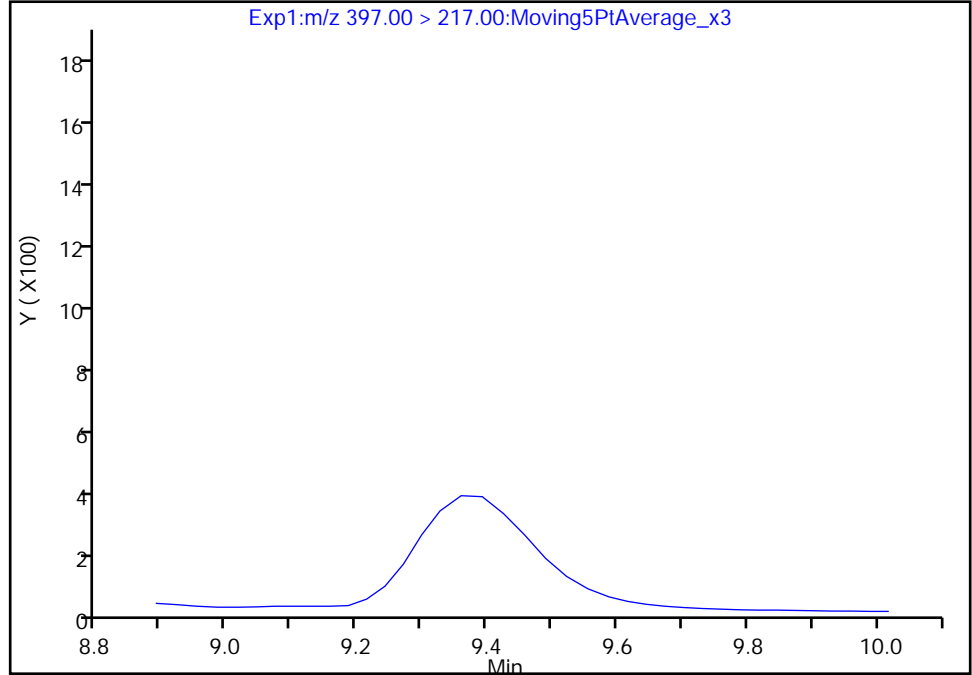
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Injection Date: 21-Feb-2021 05:16:41 Instrument ID: A12  
Lims ID: 320-69608-A-2-B Lab Sample ID: 320-69608-2  
Client ID: SEEP-C-INFLUENT-228-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

12 R-PSDCA, CAS: 2416366-21-5

Signal: 1

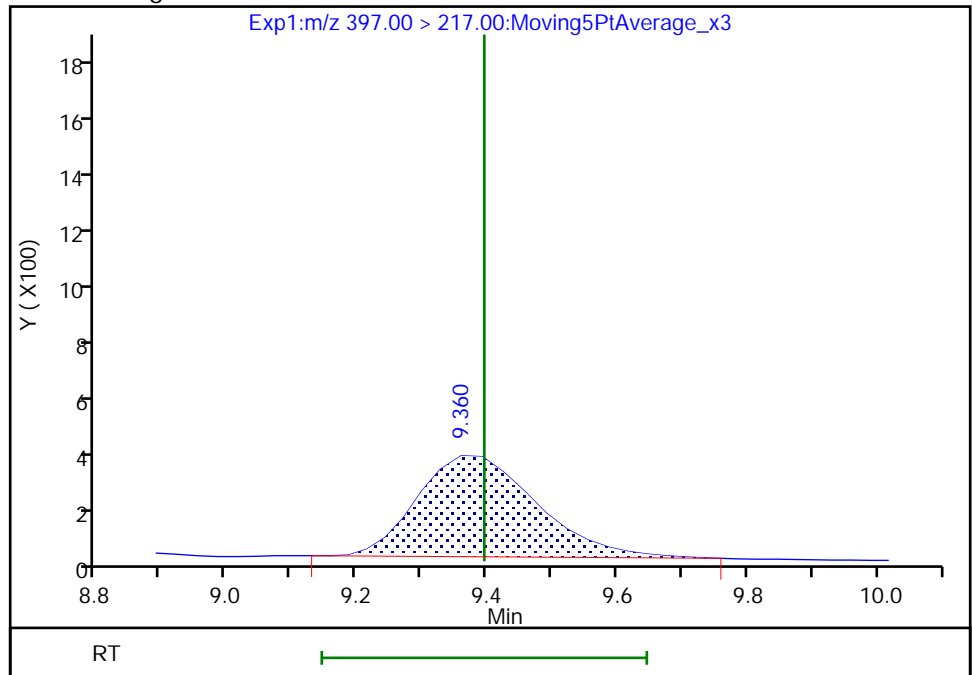
Not Detected  
Expected RT: 9.40

Processing Integration Results



Manual Integration Results

RT: 9.36  
Area: 4399  
Amount: 0.000072  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 22-Feb-2021 08:46:02  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-EQBLK-ISCO-012921 Lab Sample ID: 320-69608-3  
 Matrix: Water Lab File ID: 2021.02.13\_A12\_TB3\_A\_017.d  
 Analysis Method: Chemours (TB3+) Date Collected: 01/29/2021 12:30  
 Extraction Method: PFAS Prep Date Extracted: 02/04/2021 18:51  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/13/2021 11:05  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 461727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_017.d  
 Lims ID: 320-69608-A-3-A  
 Client ID: SEEP-C-EQBLK-ISCO-012921  
 Sample Type: Client  
 Inject. Date: 13-Feb-2021 11:05:32 ALS Bottle#: 17 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69608-a-3-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 13:30:40 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 13:30:40  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 PMPA										M
229.00 > 185.00	7.135	6.827	0.308		51398	0.002098			11.9	M
6 PFO2HxA										
245.00 > 85.00	7.799	7.799	0.001		11081	0.000599			89.4	
11 HPFO-DA										
285.00 > 169.00	9.216	9.216	0.0	1.003	7989	0.000905			175	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.188	9.216	-0.028		1930398	0.2296			91.9	54133

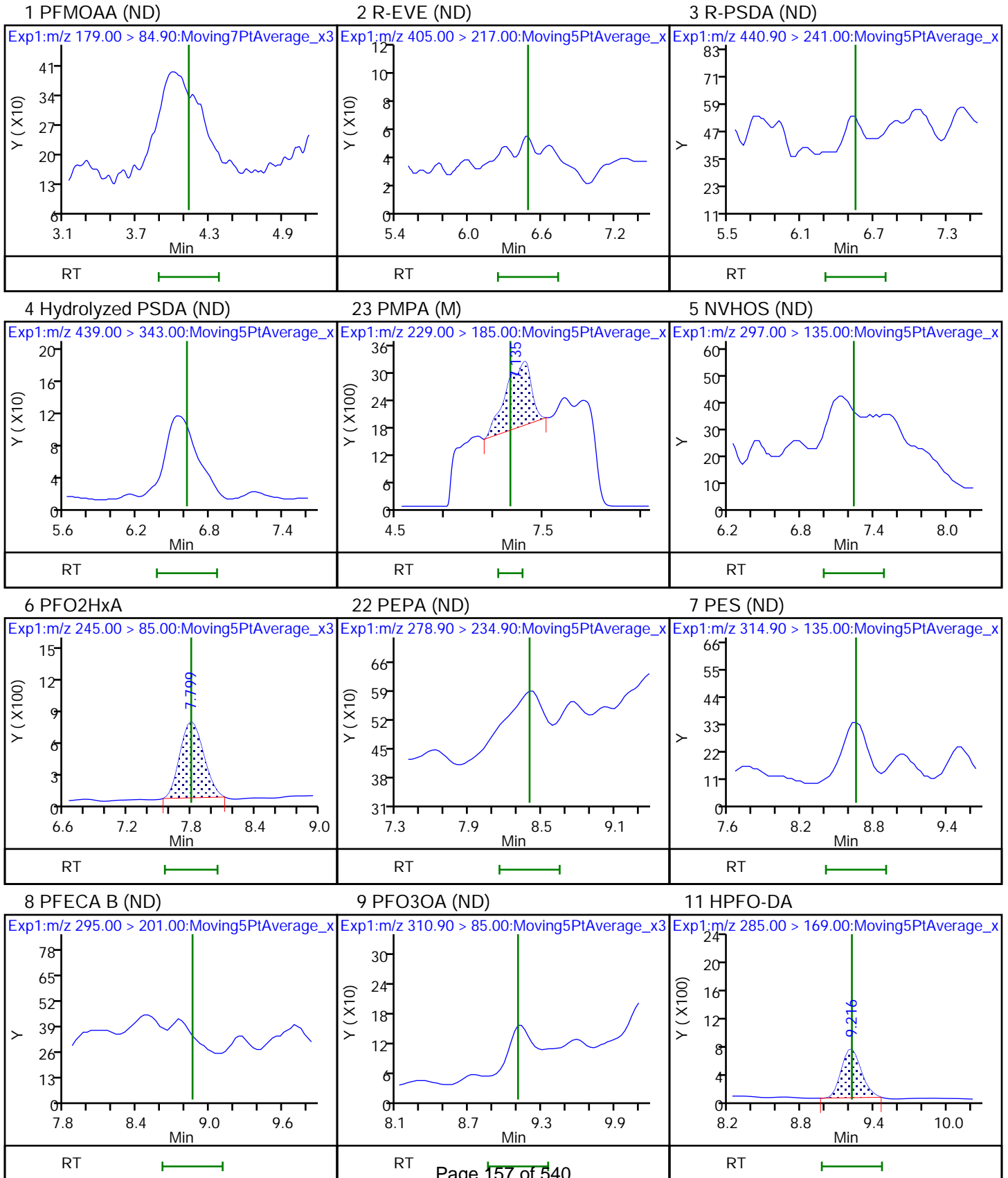
**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

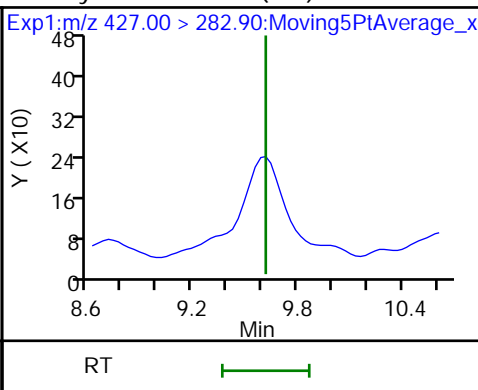
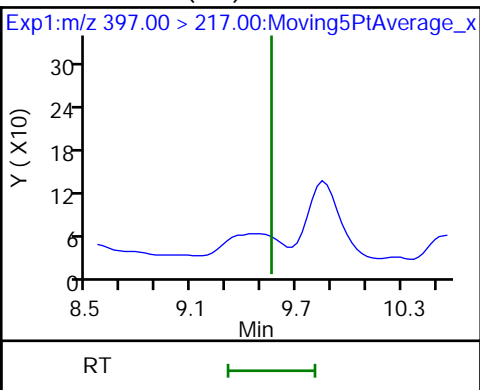
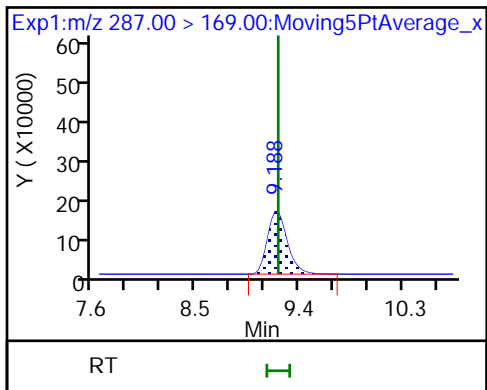
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_017.d  
Injection Date: 13-Feb-2021 11:05:32 Instrument ID: A12  
Lims ID: 320-69608-A-3-A Lab Sample ID: 320-69608-3  
Client ID: SEEP-C-EQBLK-ISCO-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA (ND)

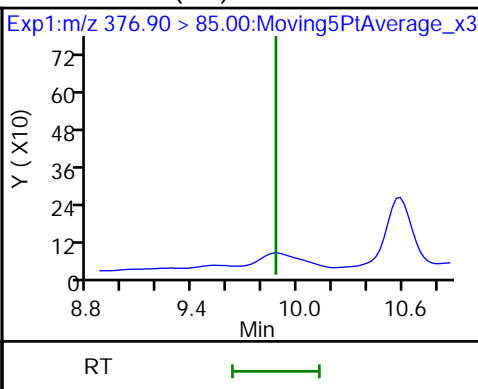
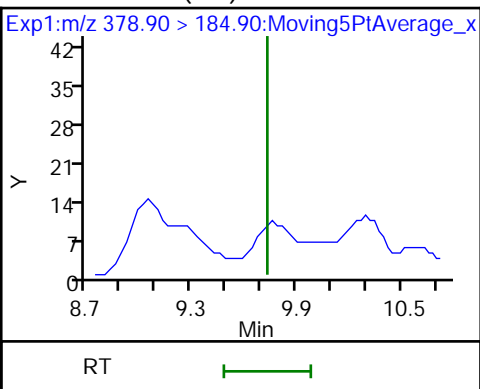
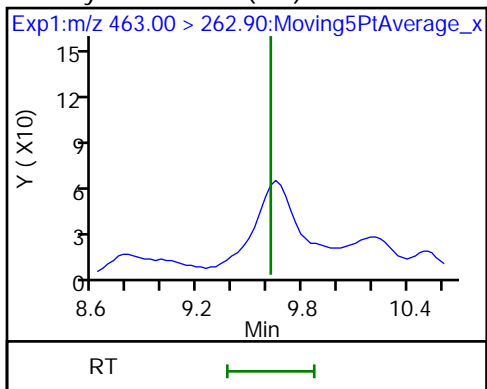
13 Hydro-EVE Acid (ND)



15 Hydro-PS Acid (ND)

17 PFECA G (ND)

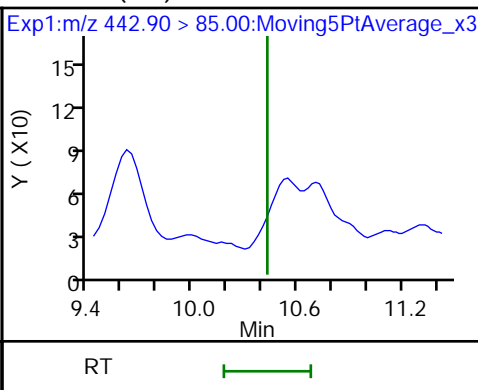
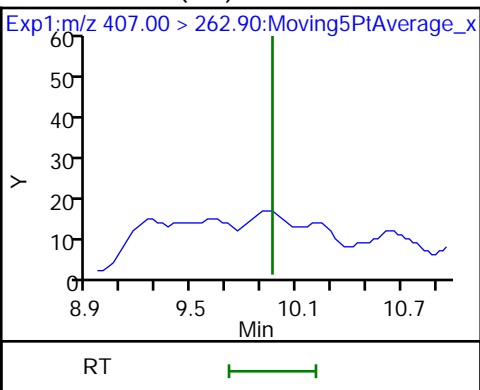
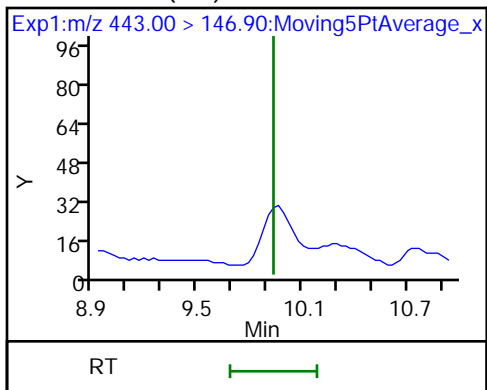
18 PFO4DA (ND)



19 PS Acid (ND)

20 EVE Acid (ND)

21 TAF (ND)



Eurofins TestAmerica, Sacramento

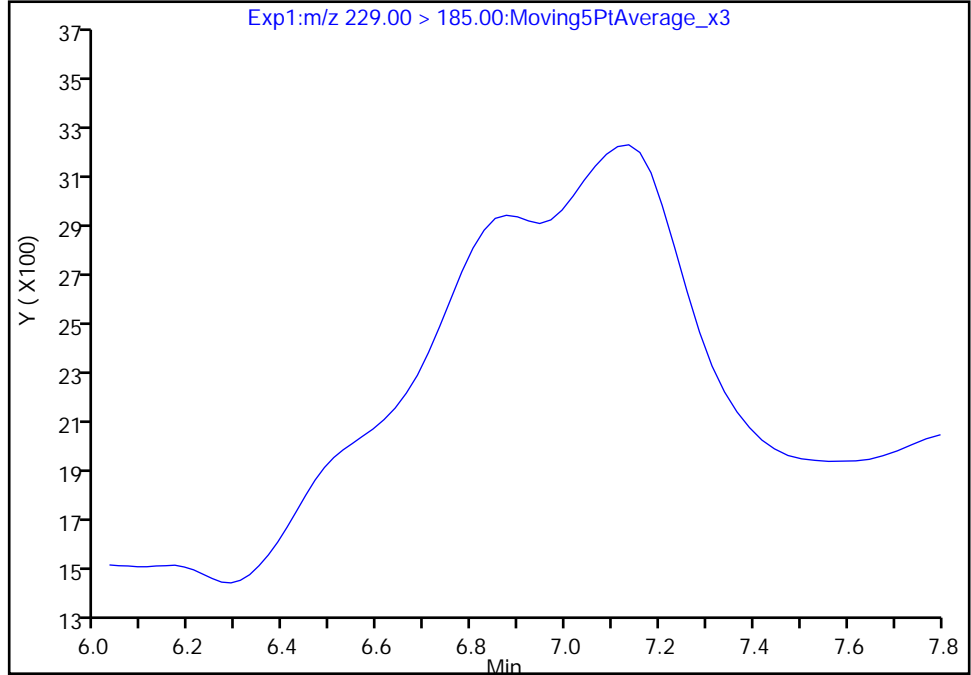
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_017.d  
Injection Date: 13-Feb-2021 11:05:32 Instrument ID: A12  
Lims ID: 320-69608-A-3-A Lab Sample ID: 320-69608-3  
Client ID: SEEP-C-EQBLK-ISCO-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

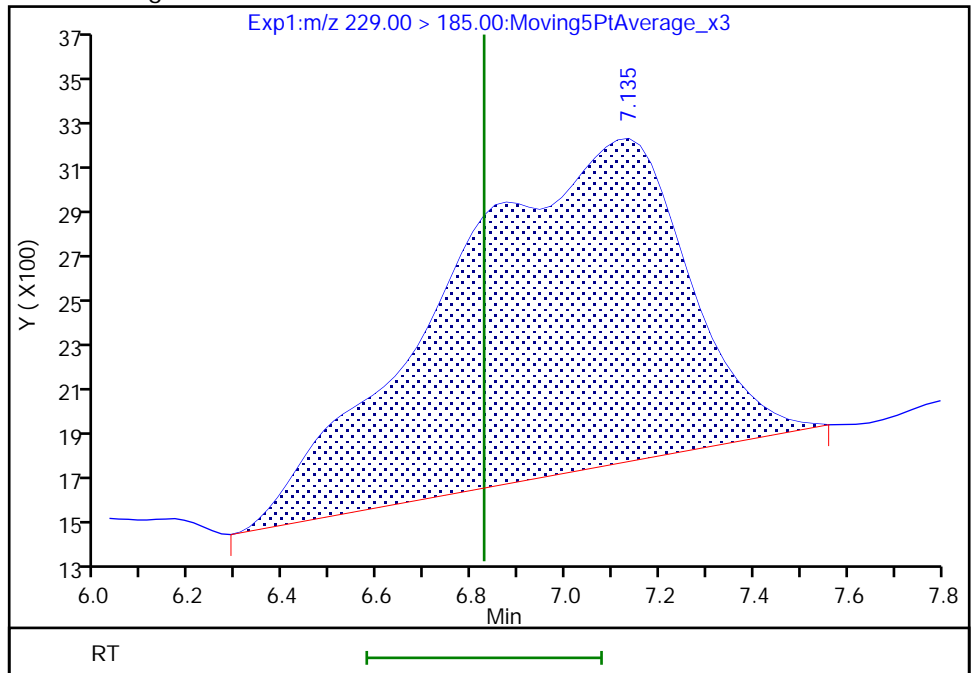
Not Detected  
Expected RT: 6.83

Processing Integration Results



Manual Integration Results

RT: 7.13  
Area: 51398  
Amount: 0.002098  
Amount Units: ng/ml



Reviewer: yuj, 13-Feb-2021 13:30:29  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 159 of 540

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-012921 Lab Sample ID: 320-69608-4  
 Matrix: Water Lab File ID: 2021.02.13\_A12\_TB3\_A\_018.d  
 Analysis Method: Chemours (TB3+) Date Collected: 01/29/2021 13:00  
 Extraction Method: PFAS Prep Date Extracted: 02/04/2021 18:51  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/13/2021 11:23  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 461727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		25-150



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_018.d  
 Lims ID: 320-69608-A-4-A  
 Client ID: SEEP-C-FBLK-012921  
 Sample Type: Client  
 Inject. Date: 13-Feb-2021 11:23:08 ALS Bottle#: 18 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-69608-a-4-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 14:03:56 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 14:03:56  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 PMPA										M
229.00 > 185.00	7.134	6.827	0.307		55570	0.002268			15.3	M
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.215	9.216	-0.001		2006530	0.2387		95.5	56224	

**QC Flag Legend**

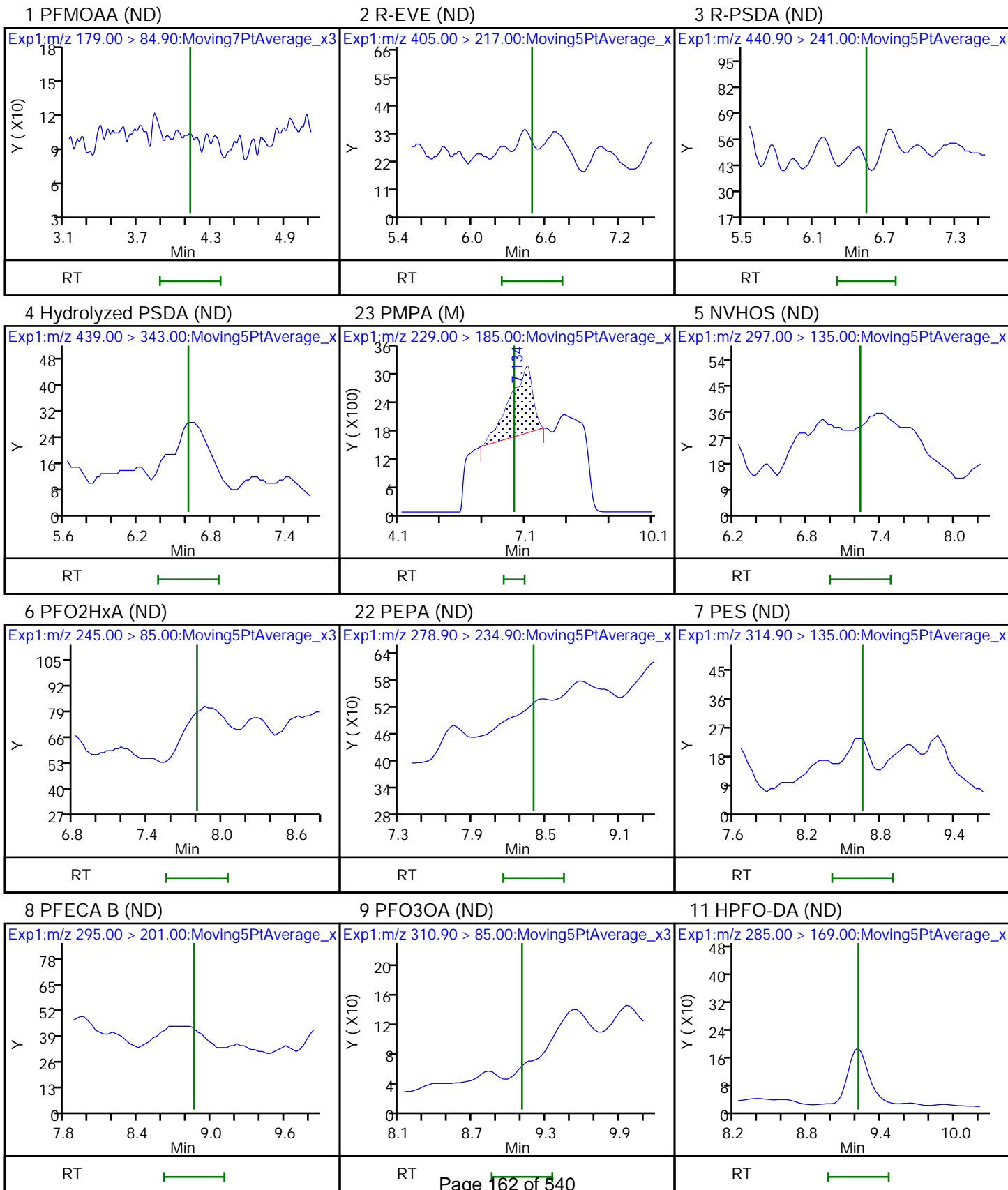
Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

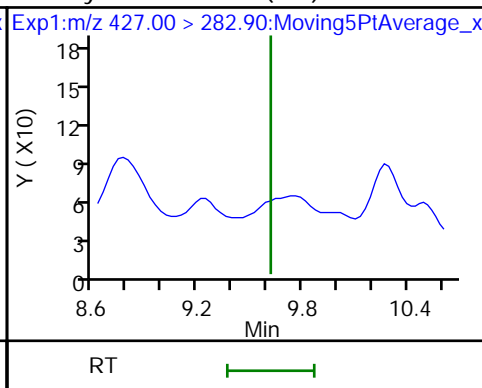
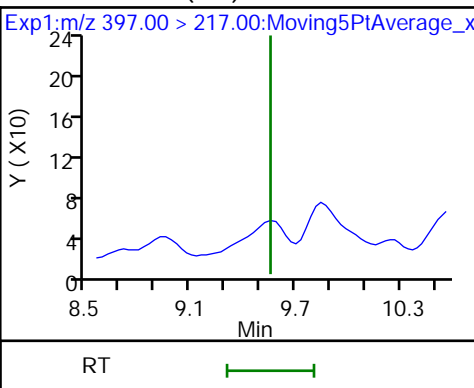
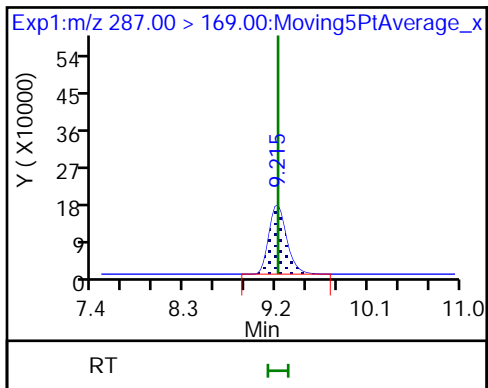
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_018.d  
Injection Date: 13-Feb-2021 11:23:08 Instrument ID: A12  
Lims ID: 320-69608-A-4-A Lab Sample ID: 320-69608-4  
Client ID: SEEP-C-FBLK-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA (ND)

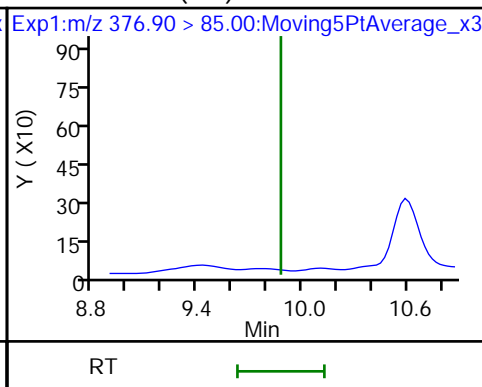
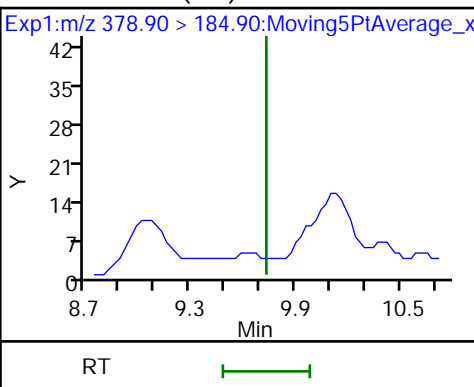
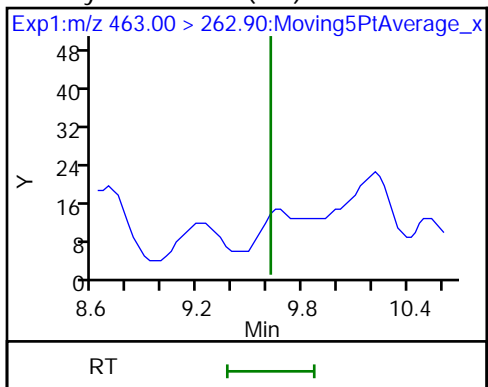
13 Hydro-EVE Acid (ND)



15 Hydro-PS Acid (ND)

17 PFECA G (ND)

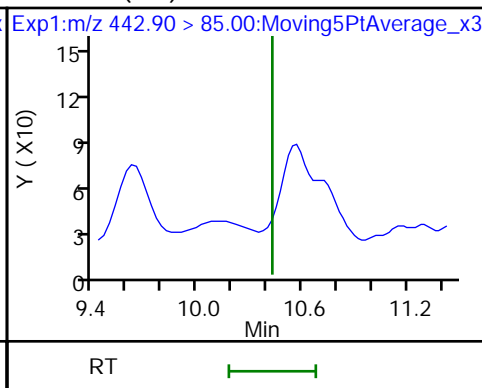
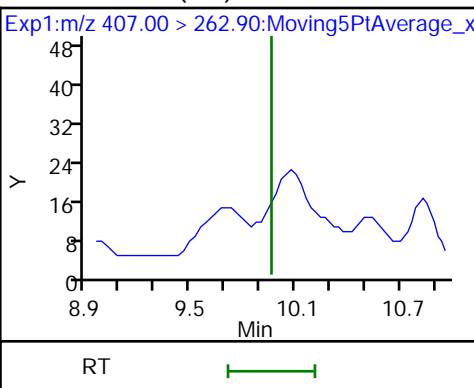
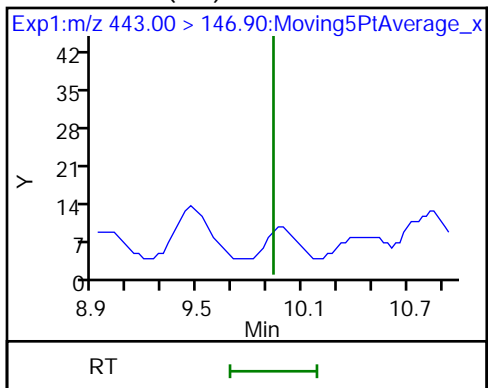
18 PFO4DA (ND)



19 PS Acid (ND)

20 EVE Acid (ND)

21 TAF (ND)



Eurofins TestAmerica, Sacramento

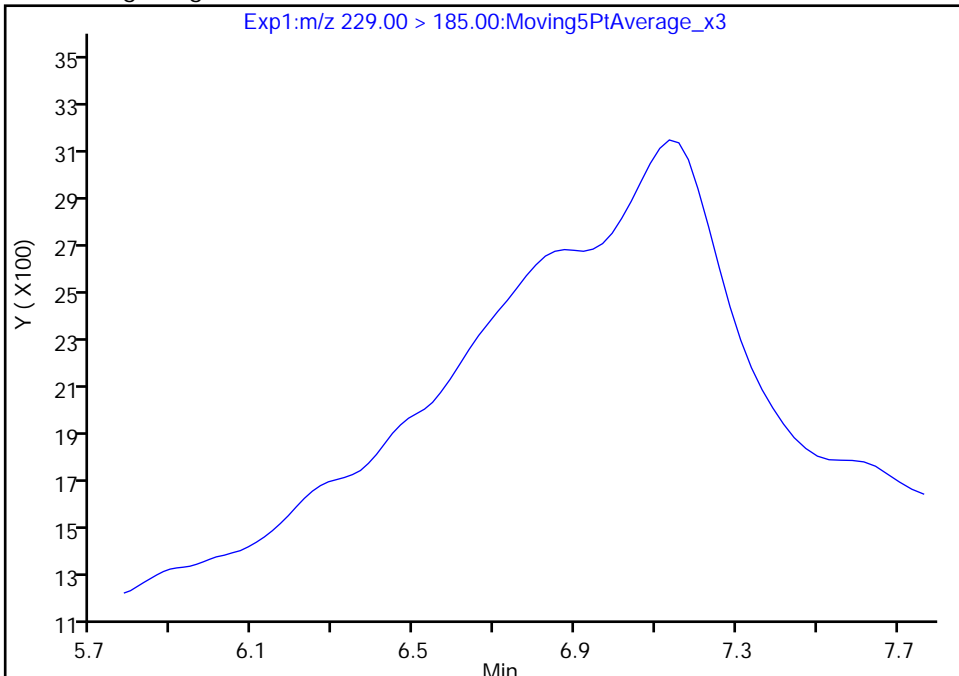
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_018.d  
Injection Date: 13-Feb-2021 11:23:08 Instrument ID: A12  
Lims ID: 320-69608-A-4-A Lab Sample ID: 320-69608-4  
Client ID: SEEP-C-FBLK-012921  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

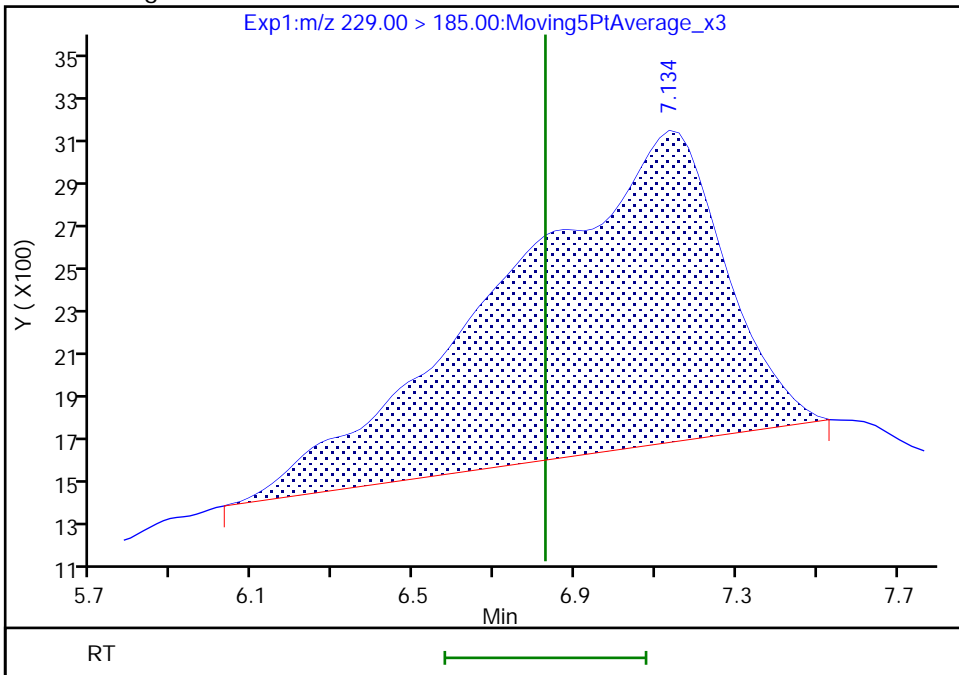
Not Detected  
Expected RT: 6.83

Processing Integration Results



Manual Integration Results

RT: 7.13  
Area: 55570  
Amount: 0.002268  
Amount Units: ng/ml



Reviewer: yuj, 13-Feb-2021 14:03:45  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 164 of 540

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-459394/2	2020.02.06_A12_TB3_ICAL_004.d
Level 2	IC 320-459394/3	2020.02.06_A12_TB3_ICAL_005.d
Level 3	IC 320-459394/4	2020.02.06_A12_TB3_ICAL_006.d
Level 4	IC 320-459394/5	2020.02.06_A12_TB3_ICAL_007.d
Level 5	IC 320-459394/6	2020.02.06_A12_TB3_ICAL_008.d
Level 6	IC 320-459394/7	2020.02.06_A12_TB3_ICAL_009.d
Level 7	IC 320-459394/8	2020.02.06_A12_TB3_ICAL_010.d
Level 8	IC 320-459394/10	2020.02.06_A12_TB3_ICAL_012.d
Level 9	IC 320-459394/12	2020.02.06_A12_TB3_ICAL_014.d
Level 10	IC 320-459394/13	2020.02.06_A12_TB3_ICAL_015.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	4.309	4.340	4.271	4.283	4.271	4.309	4.154	4.172	4.176	4.284	4.059 - 4.559	4.257
R-EVE	6.466	6.466	6.446	6.446	6.427	6.427	6.407	6.426	++++	++++	6.216 - 6.716	6.439
R-PSDA	6.526	6.506	6.486	6.486	6.486	6.486	6.466	6.466	++++	++++	6.276 - 6.776	6.489
Hydrolyzed PSDA	6.590	6.590	6.566	6.566	6.546	6.546	6.546	6.546	++++	++++	6.340 - 6.840	6.562
PMPA	++++	6.803	6.803	6.803	6.779	6.779	6.755	6.755	6.756	6.779	6.553 - 7.053	6.779
NVHOS	7.182	7.182	7.158	7.182	7.158	7.158	7.134	7.158	7.135	7.158	6.932 - 7.432	7.161
PFO2HxA	7.768	7.737	7.737	7.737	7.737	7.737	7.706	7.737	7.706	7.706	7.518 - 8.018	7.731
PEPA	8.330	8.331	8.330	8.330	8.295	8.295	8.295	8.295	8.295	8.295	8.080 - 8.580	8.309
PES	8.622	8.588	8.588	8.588	8.555	8.555	8.555	8.555	8.555	8.555	8.372 - 8.872	8.572
PFECA B	8.827	8.827	8.797	8.797	8.798	8.797	8.797	8.797	8.797	8.797	8.577 - 9.077	8.803
PFO3OA	9.074	9.046	9.045	9.045	9.047	9.046	9.045	9.045	9.017	9.017	8.824 - 9.324	9.043
HFPO-DA	9.187	9.158	9.158	9.158	9.131	9.130	9.130	9.130	9.130	9.130	8.937 - 9.437	9.144
R-PSDCA	9.555	9.523	9.522	9.522	9.491	9.490	9.490	9.490	9.490	++++	9.305 - 9.805	9.508
Hydro-EVE Acid	9.587	9.555	9.555	9.555	9.524	9.555	9.555	9.522	9.523	9.523	9.337 - 9.837	9.545
Perfluoroheptanoic acid	9.587	9.588	9.555	9.555	9.556	9.555	9.555	9.555	9.555	++++	9.337 - 9.837	9.562
Hydro-PS Acid	9.616	9.588	9.587	9.587	9.556	9.555	9.555	9.555	9.555	9.555	9.366 - 9.866	9.571
PFECA G	9.731	9.702	9.674	9.673	9.675	9.674	9.673	9.673	9.674	++++	9.481 - 9.981	9.683
PFO4DA	9.874	9.846	9.846	9.817	9.818	9.817	9.817	9.817	9.817	9.817	9.624 - 10.124	9.829
PS Acid	9.932	9.903	9.903	9.903	9.876	9.903	9.903	9.874	9.875	9.874	9.682 - 10.182	9.895
EVE Acid	9.932	9.932	9.903	9.903	9.904	9.903	9.903	9.874	9.875	++++	9.682 - 10.182	9.903
PFO5DA	10.449	10.425	10.425	10.399	10.401	10.400	10.399	10.399	10.374	++++	10.199 - 10.699	10.408
13C3 HFPO-DA	9.187	9.158	9.158	9.158	9.131	9.130	9.130	9.130	9.130	9.130	9.087 - 9.287	9.144
13C4 PFHpA	9.587	9.588	9.555	9.555	9.556	9.555	9.555	9.555	9.555	++++	9.487 - 9.687	9.562

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-459394/2	2020.02.06_A12_TB3_ICAL_004.d
Level 2	IC 320-459394/3	2020.02.06_A12_TB3_ICAL_005.d
Level 3	IC 320-459394/4	2020.02.06_A12_TB3_ICAL_006.d
Level 4	IC 320-459394/5	2020.02.06_A12_TB3_ICAL_007.d
Level 5	IC 320-459394/6	2020.02.06_A12_TB3_ICAL_008.d
Level 6	IC 320-459394/7	2020.02.06_A12_TB3_ICAL_009.d
Level 7	IC 320-459394/8	2020.02.06_A12_TB3_ICAL_010.d
Level 8	IC 320-459394/10	2020.02.06_A12_TB3_ICAL_012.d
Level 9	IC 320-459394/12	2020.02.06_A12_TB3_ICAL_014.d
Level 10	IC 320-459394/13	2020.02.06_A12_TB3_ICAL_015.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	16642000 15131560 15563466	14955600 16984260 16330441	15363800 15261690	14807000 15282084	Ave		15632190.1			4.8		50.0				
R-EVE	8168000 7055840 ++++	7027600 8563500 ++++	7076800 7255070	6924800 7516096	Ave		7448463.25			8.1		50.0				
R-PSDA	4507000 3629920 ++++	3848400 4608640 ++++	4053800 3766060	3789000 3856836	Ave		4007457.00			9.0		50.0				
Hydrolyzed PSDA	14582000 12349360 ++++	13353600 14693160 ++++	12802600 12655040	11704900 12436424	Ave		13072135.5			8.2		50.0				
PMPA	++++ 23604400 22868822	27368400 26379580 23889439	26324400 22966760	23504700 23562300	Ave		24496533.4			6.9		50.0				
NVHOS	8583000 9126560 9642512	8816000 10594500 10533769	9016400 9175740	9362600 9656148	Ave		9450722.90			7.1		50.0				
PFO2HxA	18086000 18374880 18243896	17747200 20869240 18495204	18617200 18172530	18088900 18410680	Ave		18510573.0			4.7		50.0				
PEPA	9212000 9304880 9251928	8378400 10580260 8990578	9666400 9273610	9556400 9711468	Ave		9392592.40			6.0		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	34612000 37103920 37861940	32488800 40305180 36523789	36214200 35885690	34995900 36326024	Ave		36231744.3			5.7		50.0				
PFECA B	13721000 15351520 14126652	14622800 16676300 13550668	15114400 15286570	14984500 15452200	Ave		14888661.0			6.2		50.0				
PFO3OA	6865000 7108840 7107772	6456000 8720360 6230046	7516400 7950680	7747200 8440824	Ave		7414312.20			11.0		50.0				
R-PSDCA	85947000 77176400 67494130	72013200 87171640 +++++	77670200 77090740	82673500 75904852	Ave		78126851.3			8.1		50.0				
Hydro-EVE Acid	103273000 100011160 88699182	98796400 116305460 75397902	108457000 103439960	104295100 97032872	Ave		99570803.6			11.2		50.0				
Hydro-PS Acid	33426000 36558360 34095914	35968400 41207980 31669748	36427000 37191340	37367600 35738276	Ave		35965061.8			7.2		50.0				
PFECA G	9534000 11798400 8878538	10150400 12404200 +++++	11580800 11318820	10863700 10542184	Ave		10785671.3			10.5		50.0				
PFO4DA	10091000 9710920 8547406	8830000 10759400 7269259	9514800 10271380	8695800 8840840	Ave		9253080.50			11.0		50.0				
PS Acid	16149000 16947080 13989346	14922400 18027020 12904329	16601200 16286010	16348300 15668860	Ave		15784354.5			9.4		50.0				
EVE Acid	64826000 69082040 52221270	65056800 81145320 +++++	71384600 67437110	64603400 59557148	Ave		66145965.3			12.0		50.0				
PFO5DA	8698000 7154320 7004514	6505600 8807560 +++++	7527600 7442380	7108500 7260360	Ave		7500981.56			10.2		50.0				
13C3 HFPO-DA	8181516 8827016 7862920	7808416 9508104 8070860	8312292 8863928	8383476 8245600	Ave		8406412.80			6.2		50.0				
13C4 PFHpA	46666548 41821472 33521904	45654996 53229260 +++++	42574468 46205632	41695004 38679064	Ave		43338705.3			12.8		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	1.2851 1.1177	1.1698 1.0468	1.1917 1.1742	1.1296 1.1039	1.1066 1.1112	AveID		1.1437			5.7		35.0				
Perfluoroheptanoic acid	1.3164 1.1721	1.0758 1.1319	1.1151 1.1717	1.1583 1.1480	1.1295 +++++	AveID		1.1576			5.8		35.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.



FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-459394/2	2020.02.06_A12_TB3_ICAL_004.d
Level 2	IC 320-459394/3	2020.02.06_A12_TB3_ICAL_005.d
Level 3	IC 320-459394/4	2020.02.06_A12_TB3_ICAL_006.d
Level 4	IC 320-459394/5	2020.02.06_A12_TB3_ICAL_007.d
Level 5	IC 320-459394/6	2020.02.06_A12_TB3_ICAL_008.d
Level 6	IC 320-459394/7	2020.02.06_A12_TB3_ICAL_009.d
Level 7	IC 320-459394/8	2020.02.06_A12_TB3_ICAL_010.d
Level 8	IC 320-459394/10	2020.02.06_A12_TB3_ICAL_012.d
Level 9	IC 320-459394/12	2020.02.06_A12_TB3_ICAL_014.d
Level 10	IC 320-459394/13	2020.02.06_A12_TB3_ICAL_015.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	16642	37389	76819	148070	378289	0.00100	0.00250	0.00500	0.0100	0.0250
		849213	1526169	3820521	7781733	16330441	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	8168	17569	35384	69248	176396	0.00100	0.00250	0.00500	0.0100	0.0250
		428175	725507	1879024	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
R-PSDA	Ave	4507	9621	20269	37890	90748	0.00100	0.00250	0.00500	0.0100	0.0250
		230432	376606	964209	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydrolyzed PSDA	Ave	14582	33384	64013	117049	308734	0.00100	0.00250	0.00500	0.0100	0.0250
		734658	1265504	3109106	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PMPA	Ave	+++++	68421	131622	235047	590110	+++++	0.00250	0.00500	0.0100	0.0250
		1318979	2296676	5890575	11434411	23889439	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	8583	22040	45082	93626	228164	0.00100	0.00250	0.00500	0.0100	0.0250
		529725	917574	2414037	4821256	10533769	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	18086	44368	93086	180889	459372	0.00100	0.00250	0.00500	0.0100	0.0250
		1043462	1817253	4602670	9121948	18495204	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	9212	20946	48332	95564	232622	0.00100	0.00250	0.00500	0.0100	0.0250
		529013	927361	2427867	4625964	8990578	0.0500	0.100	0.250	0.500	1.00
PES	Ave	34612	81222	181071	349959	927598	0.00100	0.00250	0.00500	0.0100	0.0250
		2015259	3588569	9081506	18930970	36523789	0.0500	0.100	0.250	0.500	1.00
PFECA B	Ave	13721	36557	75572	149845	383788	0.00100	0.00250	0.00500	0.0100	0.0250
		833815	1528657	3863050	7063326	13550668	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	6865	16140	37582	77472	177721	0.00100	0.00250	0.00500	0.0100	0.0250
		436018	795068	2110206	3553886	6230046	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	85947	180033	388351	826735	1929410	0.00100	0.00250	0.00500	0.0100	0.0250
		4358582	7709074	18976213	33747065	+++++	0.0500	0.100	0.250	0.500	+++++
Hydro-EVE Acid	Ave	103273	246991	542285	1042951	2500279	0.00100	0.00250	0.00500	0.0100	0.0250
		5815273	10343996	24258218	44349591	75397902	0.0500	0.100	0.250	0.500	1.00
Hydro-PS Acid	Ave	33426	89921	182135	373676	913959	0.00100	0.00250	0.00500	0.0100	0.0250
		2060399	3719134	8934569	17047957	31669748	0.0500	0.100	0.250	0.500	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	9534 620210	25376 1131882	57904 2635546	108637 4439269	294960 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO4DA	Ave	10091 537970	22075 1027138	47574 2210210	86958 4273703	242773 7269259	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
PS Acid	Ave	16149 901351	37306 1628601	83006 3917215	163483 6994673	423677 12904329	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
EVE Acid	Ave	64826 4057266	162642 6743711	356923 14889287	646034 26110635	1727051 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO5DA	Ave	8698 440378	16264 744238	37638 1815090	71085 3502257	178858 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
13C3 HFPO-DA	Ave	2045379 2377026	1952104 2215982	2078073 2061400	2095869 1965730	2206754 2017715	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250
13C4 PFHpA	Ave	11666637 13307315	11413749 11551408	10643617 9669766	10423751 8380476	10455368 ++++	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 ++++

Curve Type Legend:

Ave = Average

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 459394

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/06/2021 12:42 Calibration End Date: 02/06/2021 15:55 Calibration ID: 53980

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-459394/2	2020.02.06_A12_TB3_ICAL_004.d
Level 2	IC 320-459394/3	2020.02.06_A12_TB3_ICAL_005.d
Level 3	IC 320-459394/4	2020.02.06_A12_TB3_ICAL_006.d
Level 4	IC 320-459394/5	2020.02.06_A12_TB3_ICAL_007.d
Level 5	IC 320-459394/6	2020.02.06_A12_TB3_ICAL_008.d
Level 6	IC 320-459394/7	2020.02.06_A12_TB3_ICAL_009.d
Level 7	IC 320-459394/8	2020.02.06_A12_TB3_ICAL_010.d
Level 8	IC 320-459394/10	2020.02.06_A12_TB3_ICAL_012.d
Level 9	IC 320-459394/12	2020.02.06_A12_TB3_ICAL_014.d
Level 10	IC 320-459394/13	2020.02.06_A12_TB3_ICAL_015.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	10514	22836	49529	94701	244209	0.00100	0.00250	0.00500	0.0100	0.0250
			531345	927895	2420440	4339784	8968491	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		AveID	61430	122787	237368	482941	1180894	0.00100	0.00250	0.00500	0.0100	0.0250
			3119616	5230178	11329993	19241569	+++++	0.0500	0.100	0.250	0.500	+++++

Curve Type Legend:

AveID = Average isotope dilution

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
 Lims ID: IC STD 1 (55)  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 06-Feb-2021 12:42:01 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (55)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:30 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 11:52:20

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.309	4.309	0.0		16642	0.001065		106	2.5	M
2 R-EVE										M
405.00 > 217.00	6.466	6.466	0.0		8168	0.001097		110	127	M
3 R-PSDA										M
440.90 > 241.00	6.526	6.526	0.0		4507	0.001125		112	72.0	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.590	6.590	0.0		14582	0.001116		112	311	M
23 PMPA										M
229.00 > 185.00	6.803	6.803	0.0		45122	0.001842		184	22.7	M
5 NVHOS										M
297.00 > 135.00	7.182	7.182	0.0		8583	0.000908		90.8	141	M
6 PFO2HxA										
245.00 > 85.00	7.768	7.768	0.0		18086	0.000977		97.7	95.0	
22 PEPA										
278.90 > 234.90	8.330	8.330	0.0		9212	0.000981		98.1	36.4	
7 PES										
314.90 > 135.00	8.622	8.622	0.0		34612	0.000955		95.5	885	
8 PFECA B										
295.00 > 201.00	8.827	8.827	0.0		13721	0.000922		92.2	280	
9 PFO3OA										
310.90 > 85.00	9.074	9.074	0.0		6865	0.000926		92.6	151	
11 HPFO-DA										
285.00 > 169.00	9.187	9.187	0.0	1.000	10514	0.001124		112	233	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.187	9.187	0.0		2045379	0.2433		97.3	29573	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.555	9.555	0.0		85947	0.001100		110	2283	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.587	9.587	0.0		11666637	0.2692		108	85680	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.587	9.587	0.0		103273	0.001037		104	1458	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.587	9.587	0.0	1.000	61430	0.001137	Target=0.00	114	381	
363.00 > 169.00	9.587	9.587	0.0	1.000	14282		4.30(0.00-0.00)	114	233	
15 Hydro-PS Acid										
463.00 > 262.90	9.616	9.616	0.0		33426	0.000929		92.9	765	
17 PFECA G										
378.90 > 184.90	9.731	9.731	0.0		9534	0.000884		88.4	281	
18 PFO4DA										
376.90 > 85.00	9.874	9.874	0.0		10091	0.001091		109	179	
19 PS Acid										
443.00 > 146.90	9.932	9.932	0.0		16149	0.001023		102	354	
20 EVE Acid										
407.00 > 262.90	9.932	9.932	0.0		64826	0.000980		98.0	1840	
21 TAF										M
442.90 > 85.00	10.449	10.449	0.0		8698	0.001160		116	70.7	M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

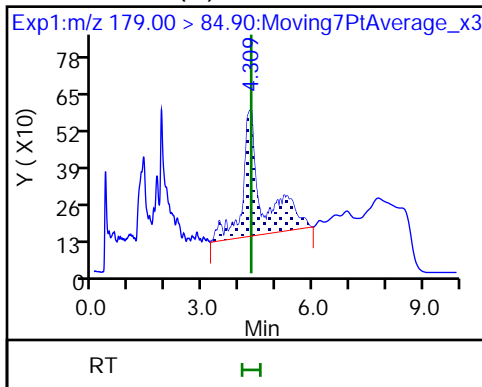
**Reagents:**

LCTB3\_LLSTD1\_00055

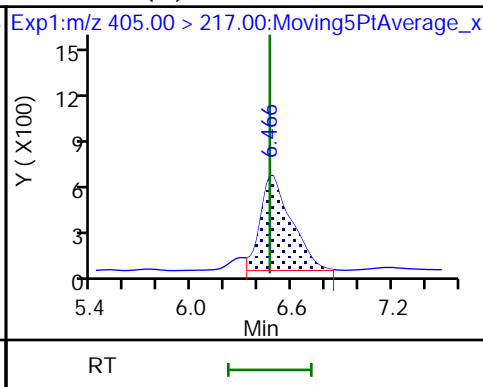
Amount Added: 1.00

Units: mL

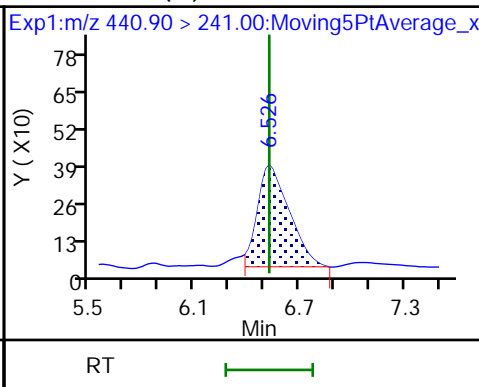
1 PFMOAA (M)



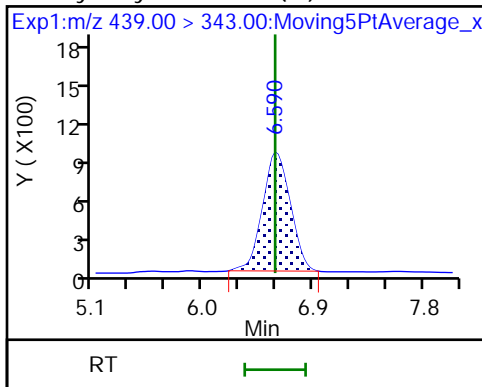
2 R-EVE (M)



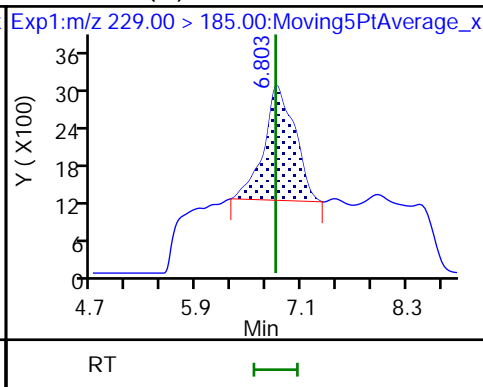
3 R-PSDA (M)



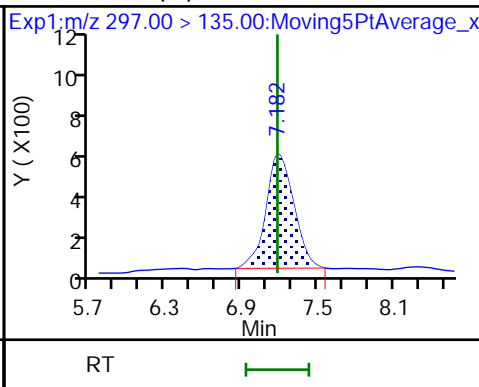
4 Hydrolyzed PSDA (M)



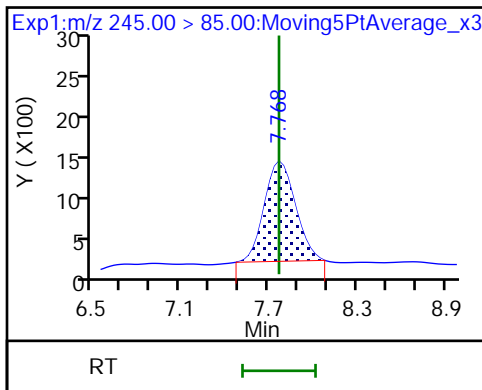
23 PMPA (M)



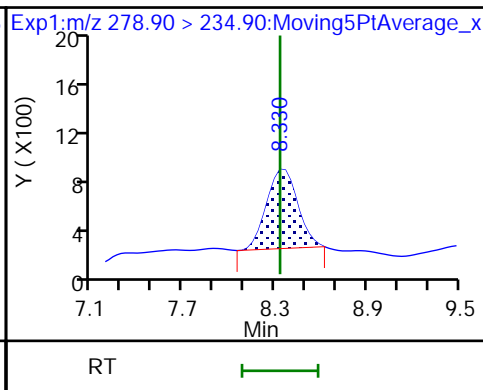
5 NVHOS (M)



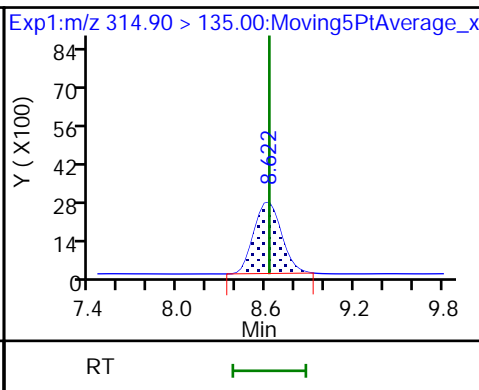
6 PFO2HxA



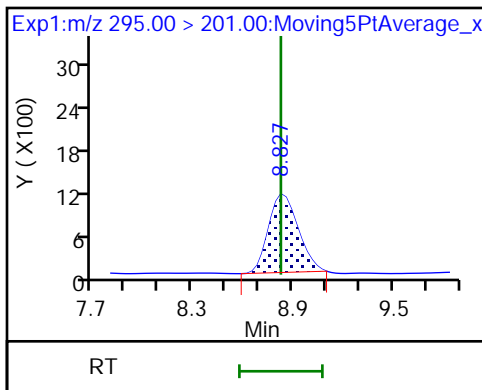
22 PEPA



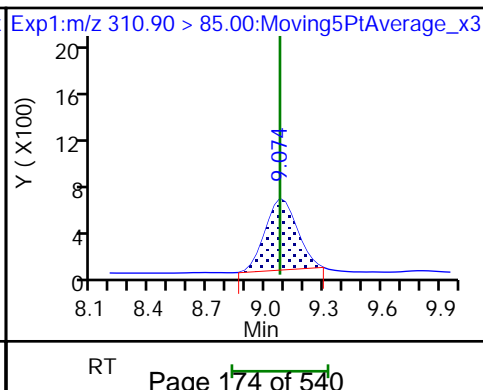
7 PES



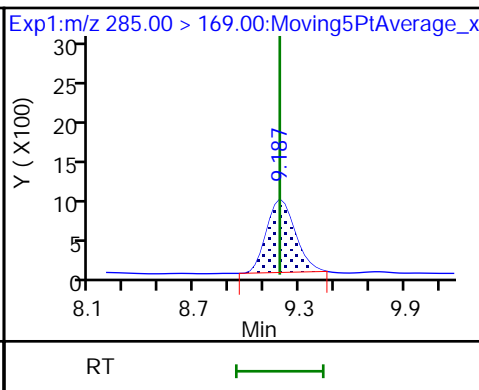
8 PFECA B



9 PFO3OA



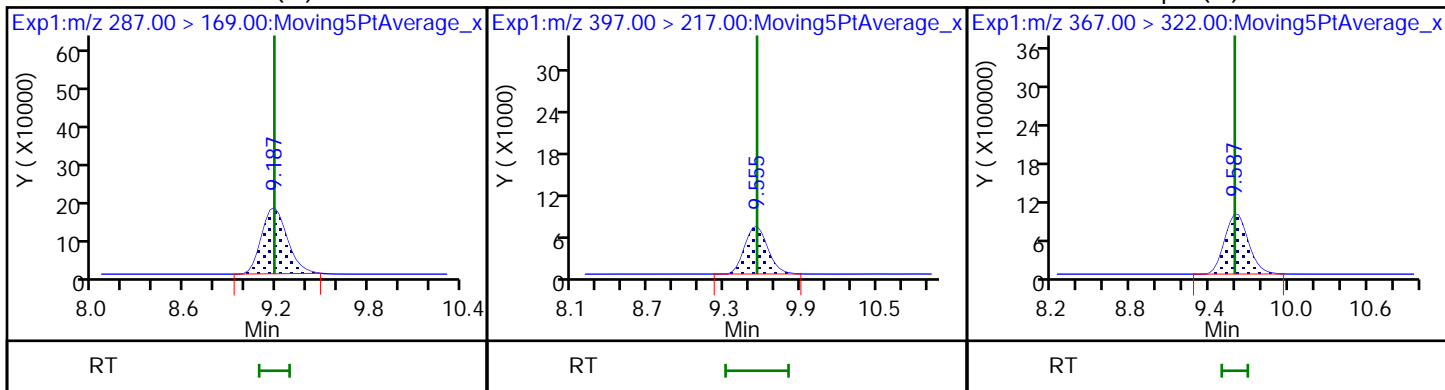
11 HPFO-DA



D 10 13C3 HFPO-DA (M)

12 R-PSDCA

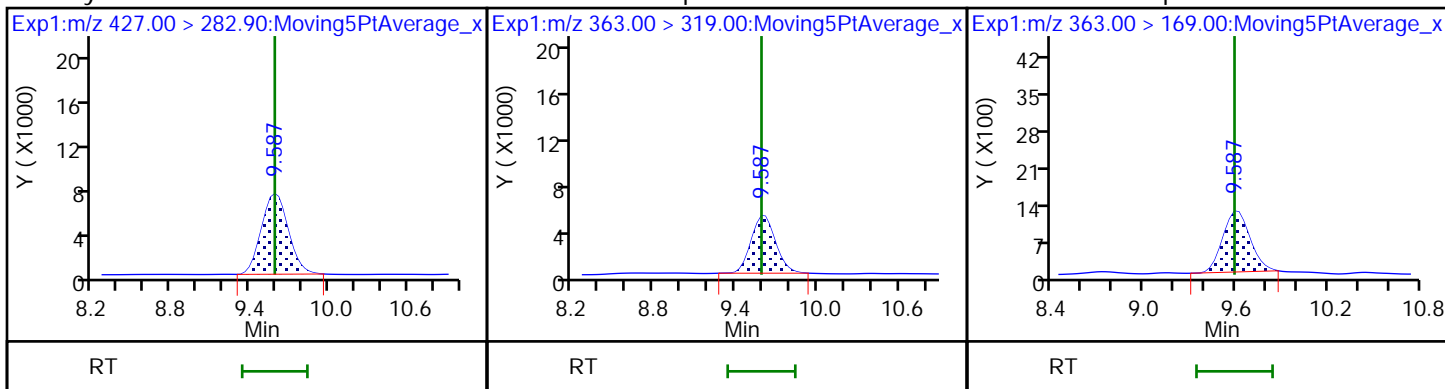
D 14 13C4 PFHpA (M)



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

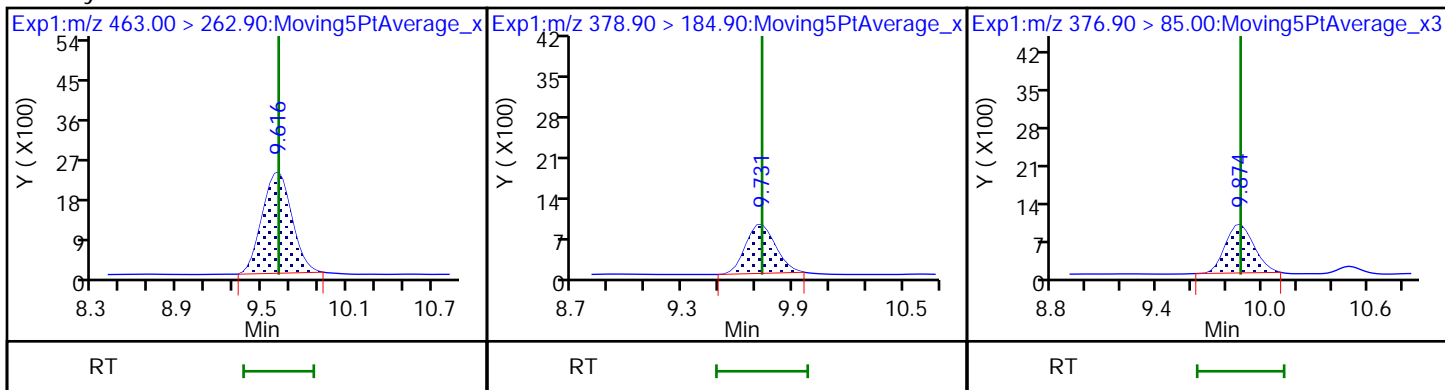
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

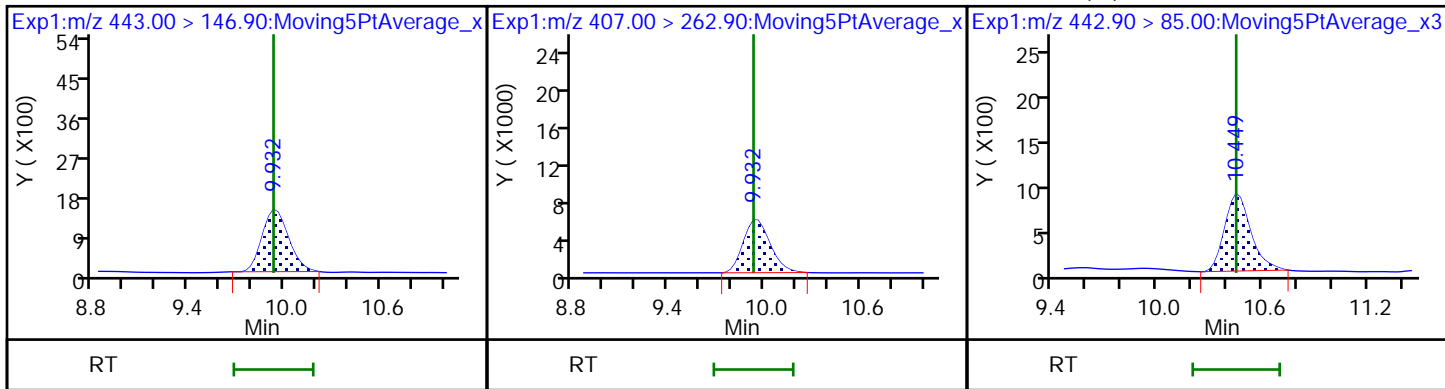
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF (M)







Eurofins TestAmerica, Sacramento

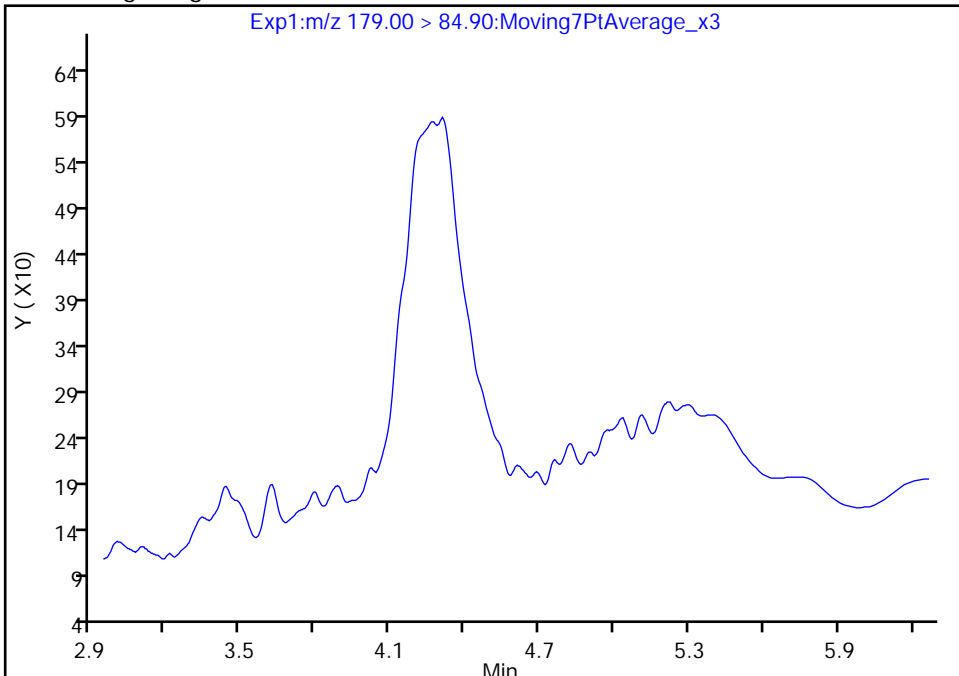
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

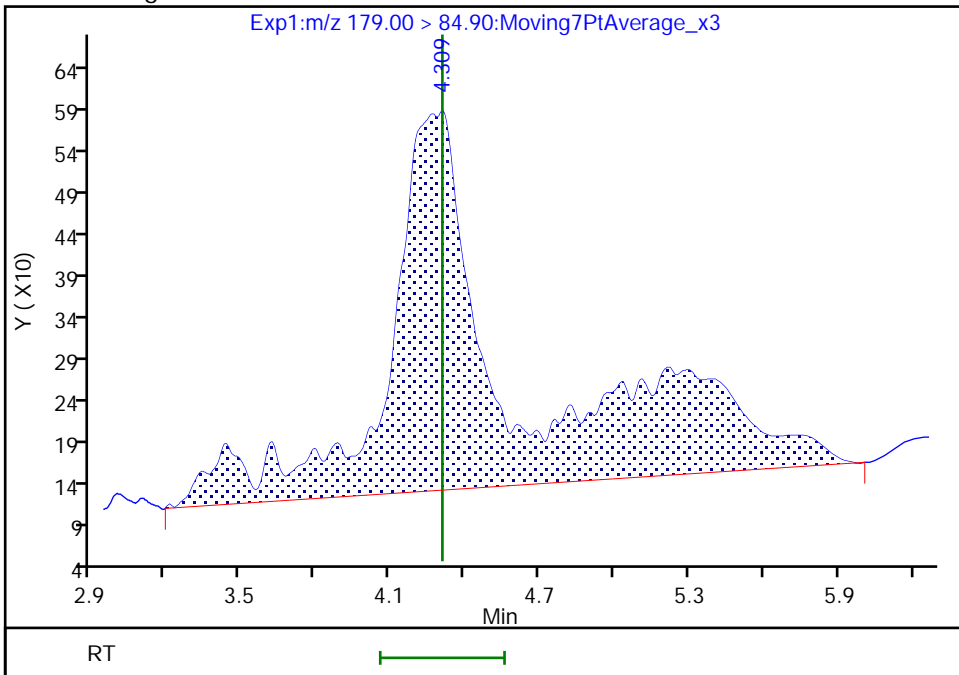
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 16642  
Amount: 0.001065  
Amount Units: ng/ml



Reviewer: contrerases, 07-Feb-2021 11:50:36  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

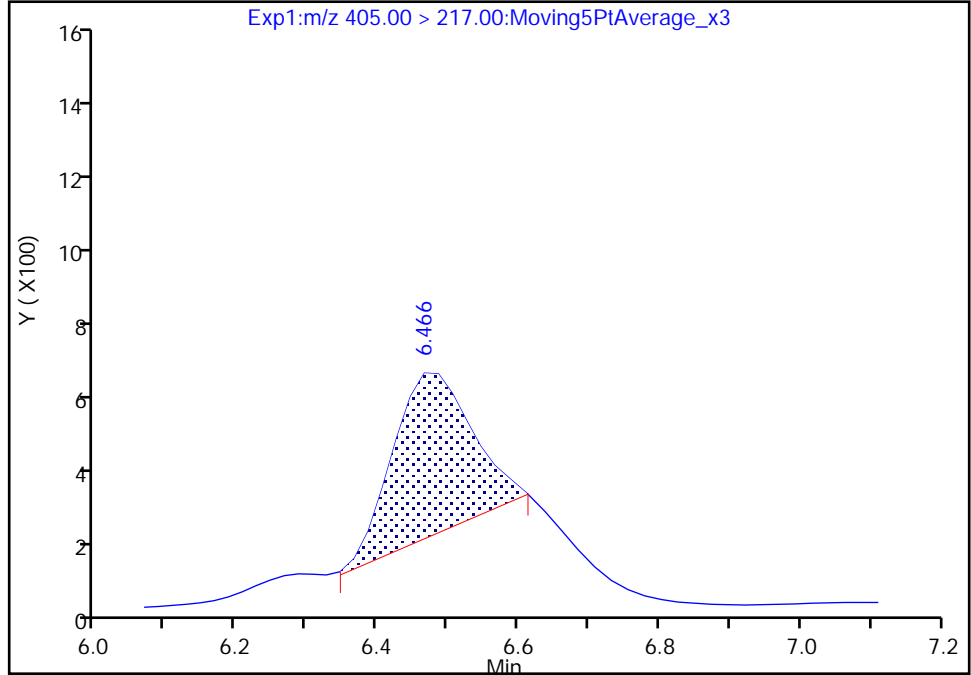
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

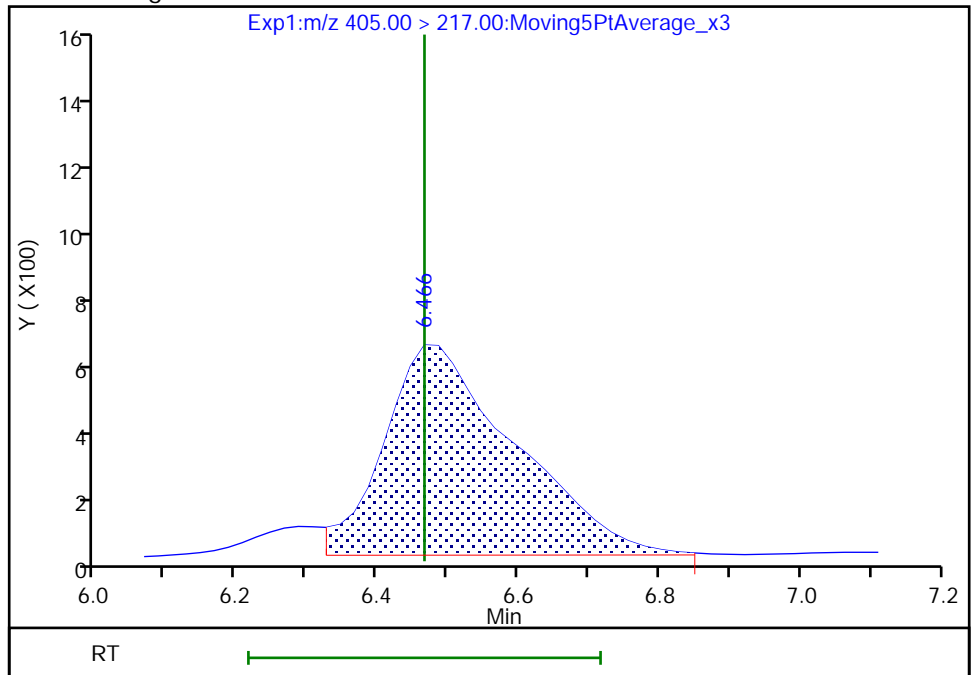
RT: 6.47  
Area: 3491  
Amount: 0.000500  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 8168  
Amount: 0.001097  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 07-Feb-2021 13:49:10  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

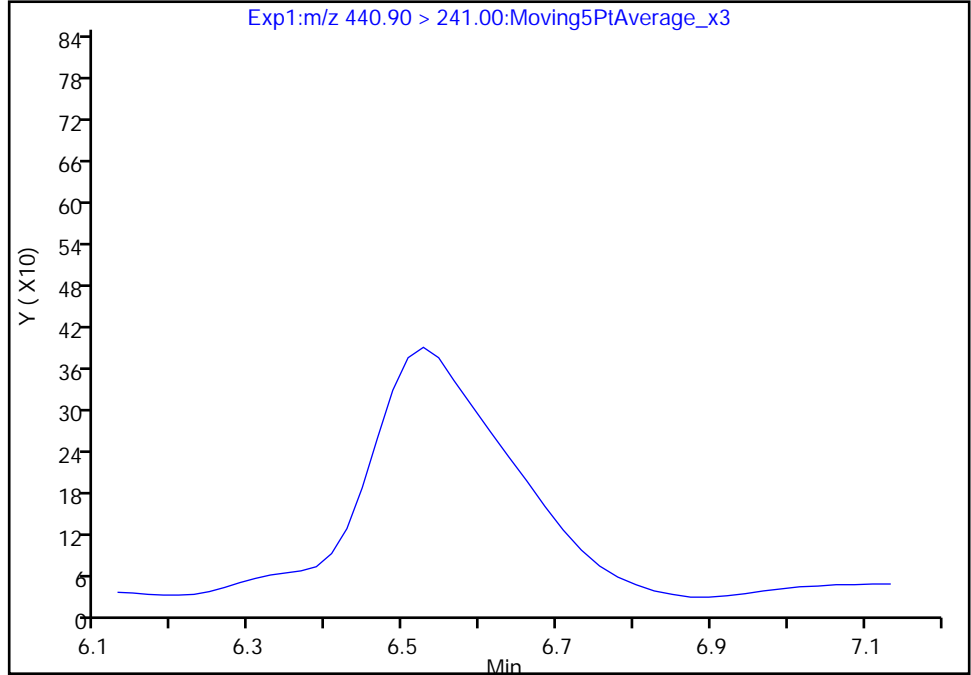
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

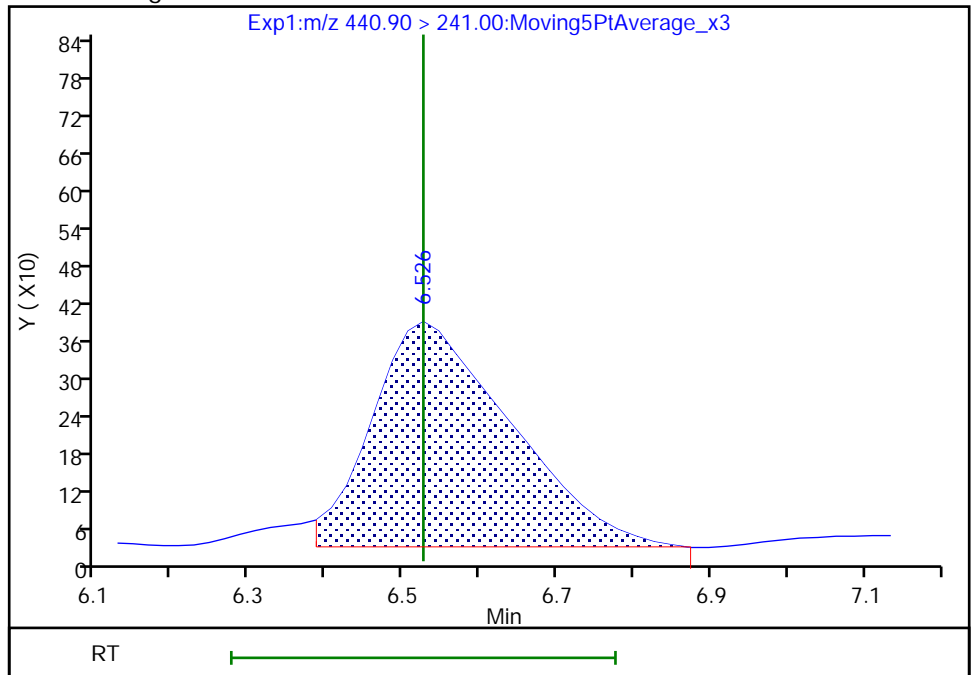
Not Detected  
Expected RT: 6.53

Processing Integration Results



RT: 6.53  
Area: 4507  
Amount: 0.001125  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:49:17  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

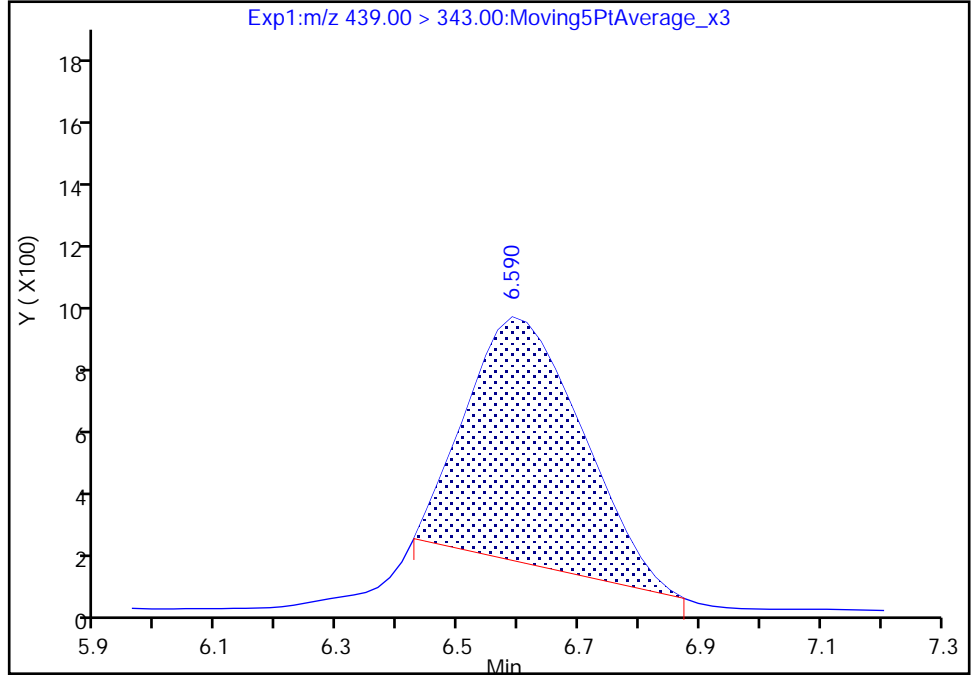
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

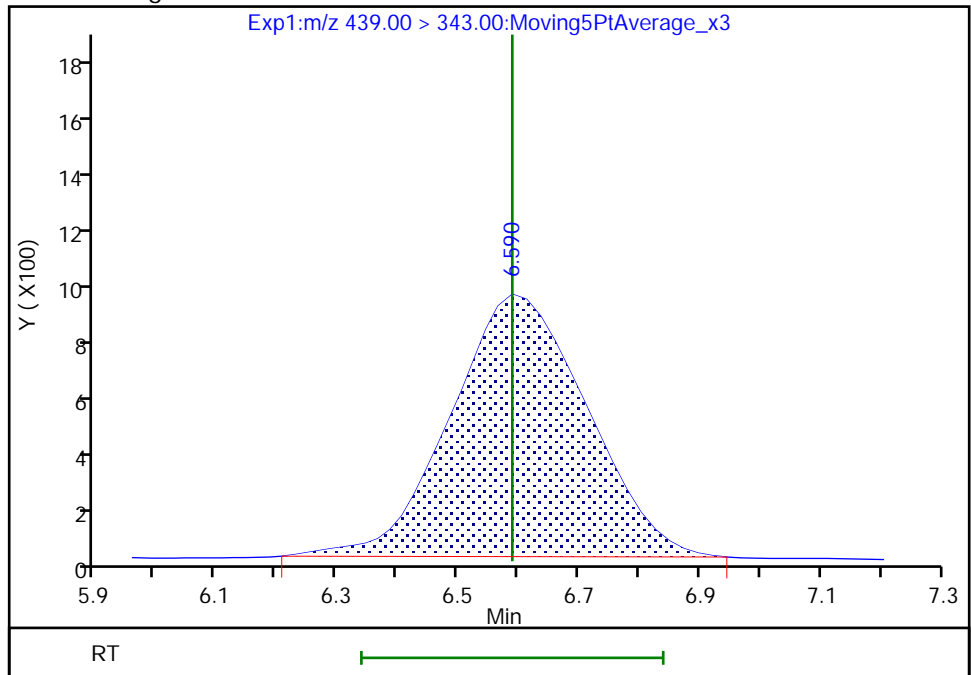
RT: 6.59  
Area: 10477  
Amount: 0.000825  
Amount Units: ng/ml

Processing Integration Results



RT: 6.59  
Area: 14582  
Amount: 0.001116  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:52:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

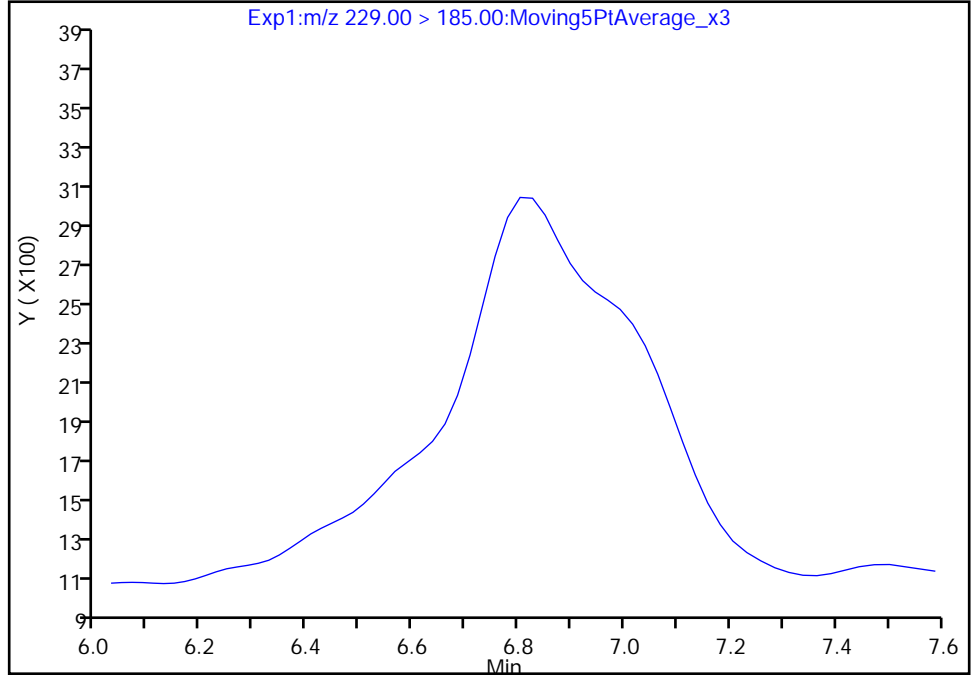
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

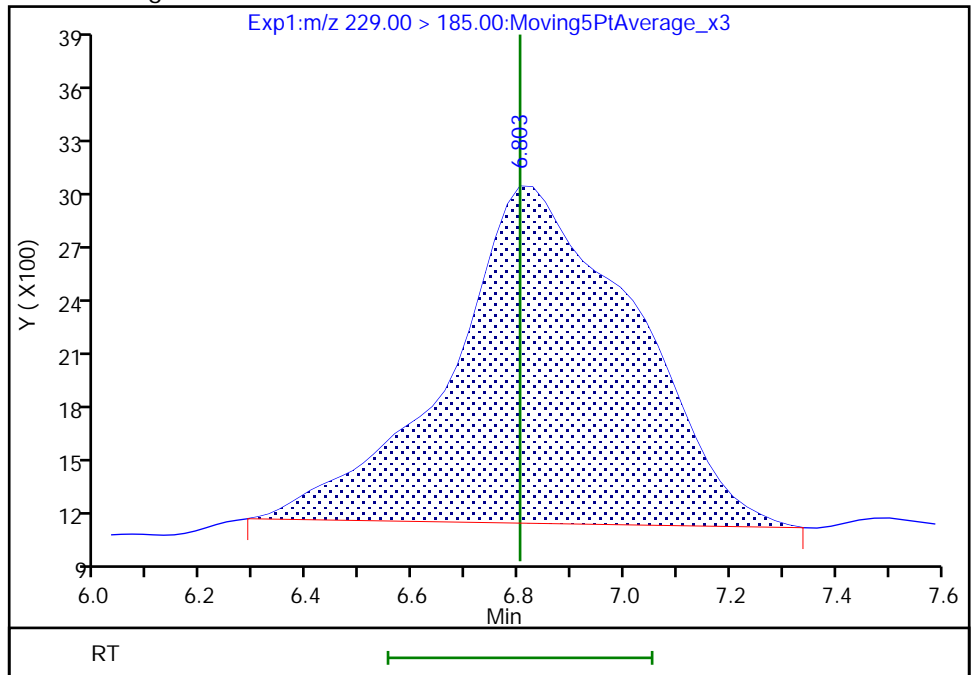
Not Detected  
Expected RT: 6.80

Processing Integration Results



Manual Integration Results

RT: 6.80  
Area: 45122  
Amount: 0.001842  
Amount Units: ng/ml



Reviewer: contrerases, 07-Feb-2021 11:51:20  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

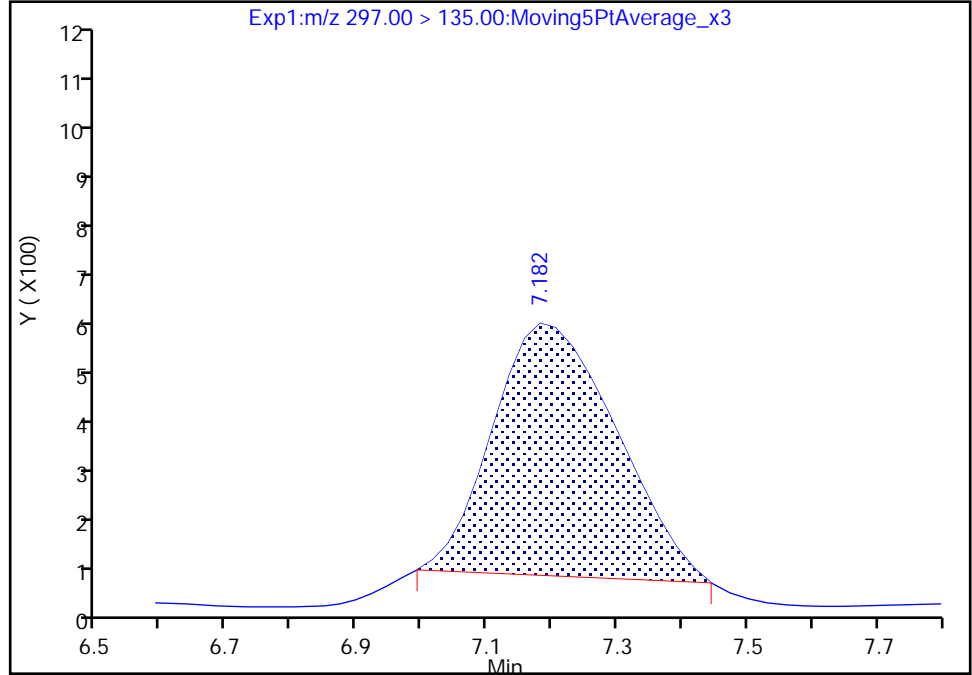
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

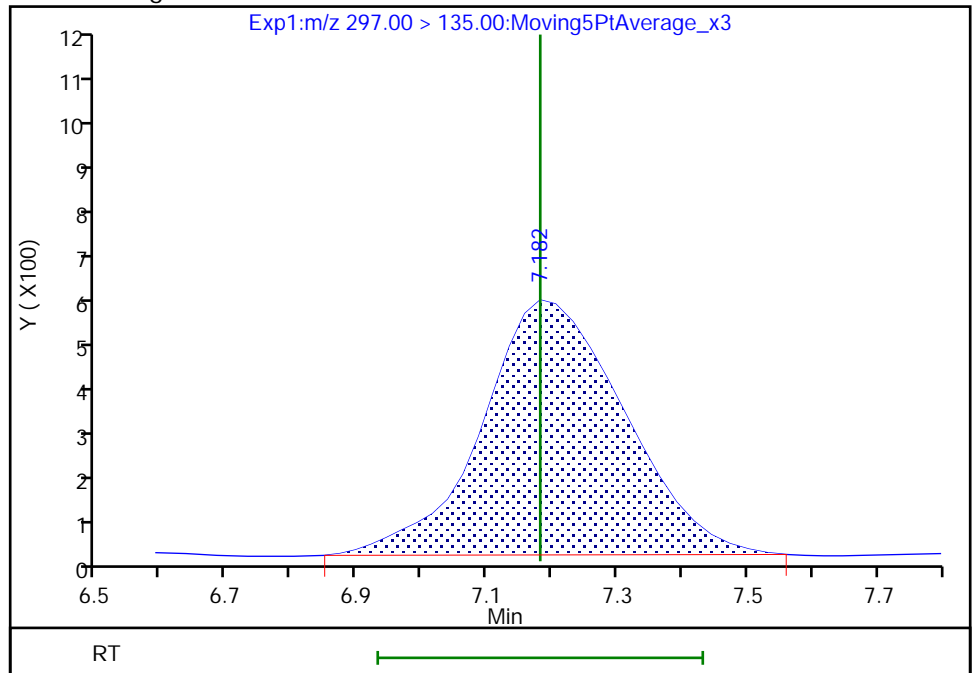
RT: 7.18  
Area: 6660  
Amount: 0.000732  
Amount Units: ng/ml

Processing Integration Results



RT: 7.18  
Area: 8583  
Amount: 0.000908  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:52:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

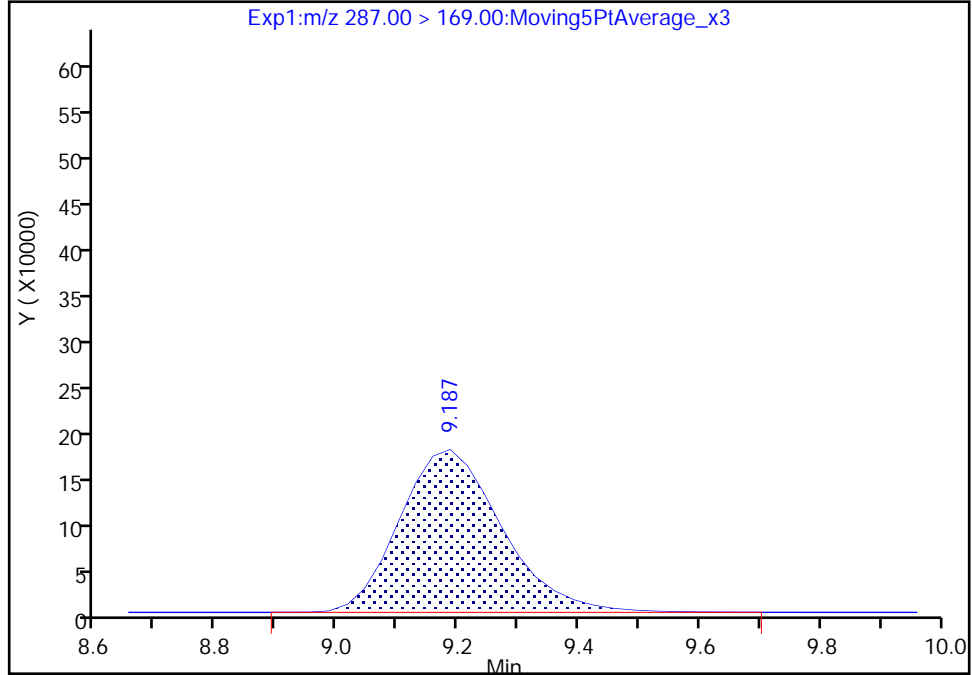
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

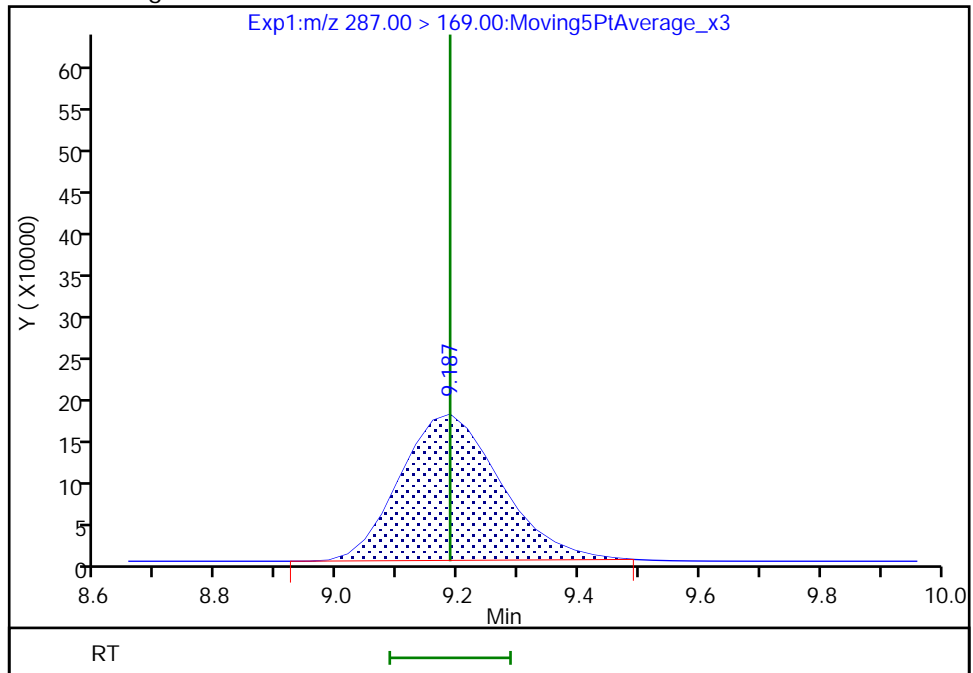
RT: 9.19  
Area: 2089069  
Amount: 0.246389  
Amount Units: ng/ml

Processing Integration Results



RT: 9.19  
Area: 2045379  
Amount: 0.243312  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:57:32  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

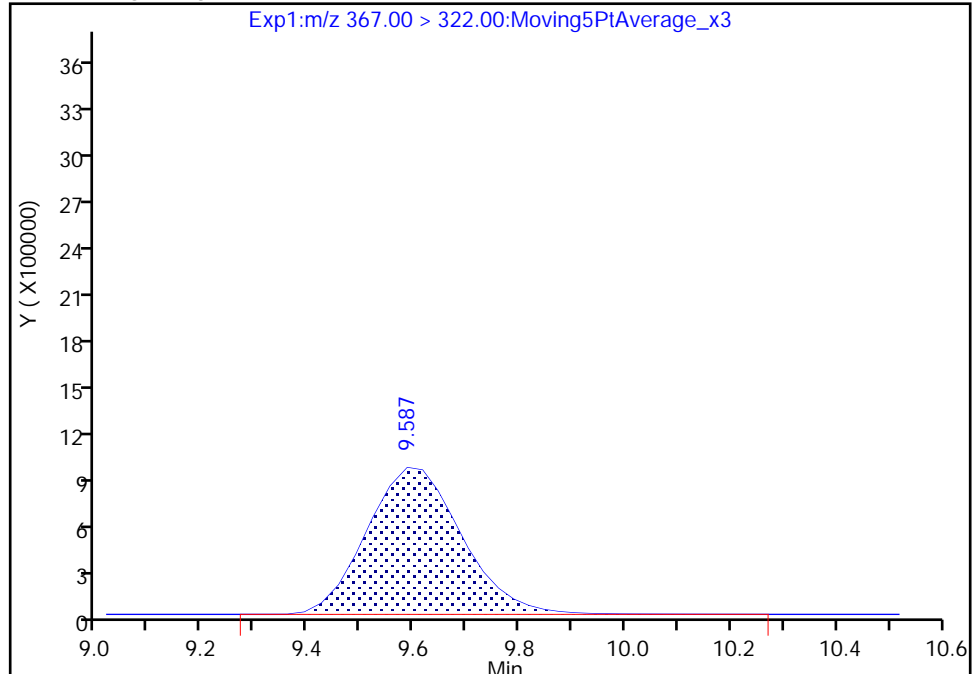
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 14 13C4 PFHpA, CAS: STL01892**

Signal: 1

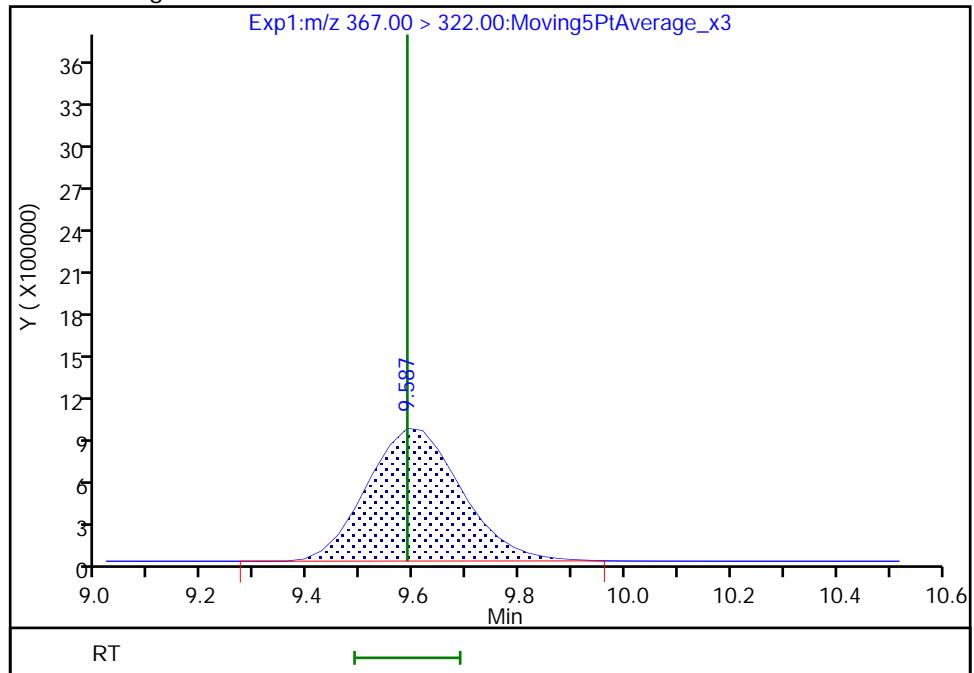
RT: 9.59  
Area: 11735042  
Amount: 0.277338  
Amount Units: ng/ml

Processing Integration Results



RT: 9.59  
Area: 11666637  
Amount: 0.269197  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:57:28  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

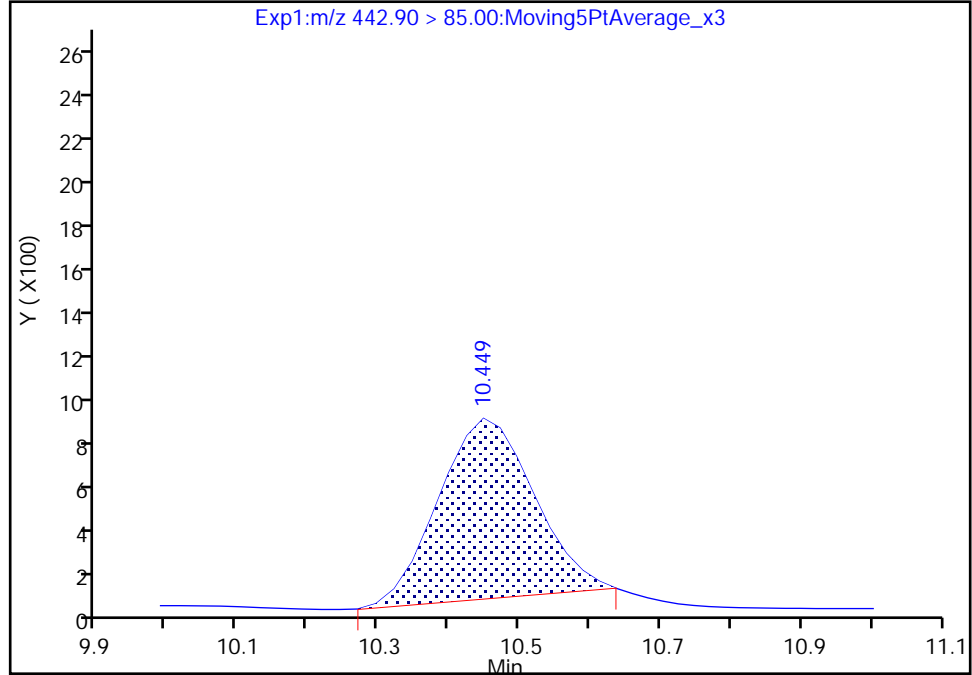
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_004.d  
Injection Date: 06-Feb-2021 12:42:01 Instrument ID: A12  
Lims ID: IC STD 1 (55)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

21 TAF, CAS: 39492-91-6

Signal: 1

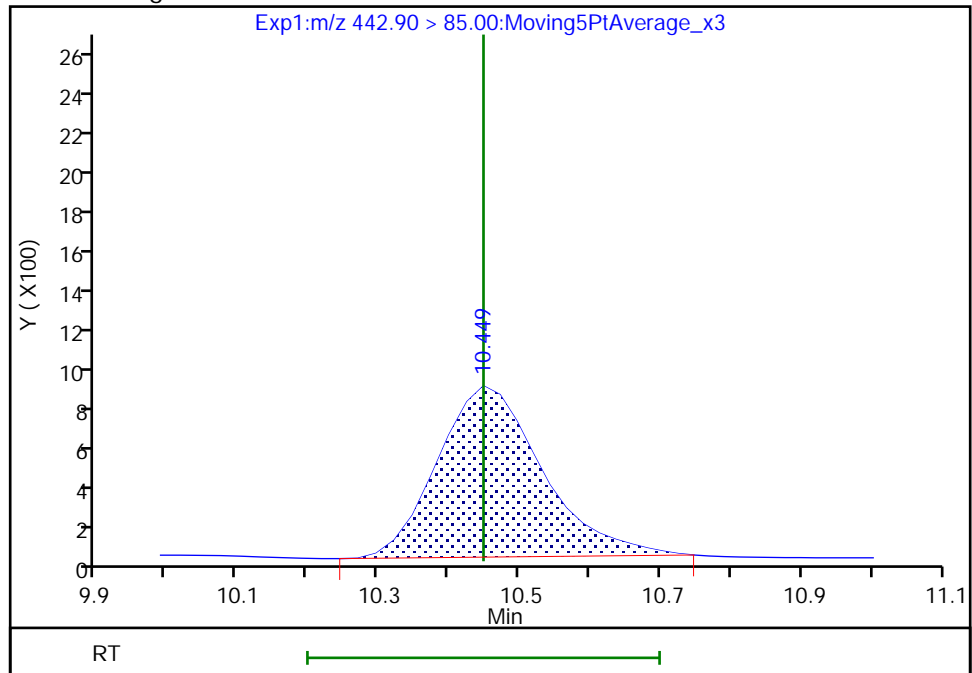
RT: 10.45  
Area: 7600  
Amount: 0.001075  
Amount Units: ng/ml

Processing Integration Results



RT: 10.45  
Area: 8698  
Amount: 0.001160  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:52:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_005.d  
 Lims ID: IC STD 2 (45)  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 06-Feb-2021 12:59:37 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (45)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:32 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerase Date: 07-Feb-2021 11:52:56

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.340	4.309	0.031		37389	0.002392		95.7	9.6	M
2 R-EVE										M
405.00 > 217.00	6.466	6.466	0.0		17569	0.002359		94.3	272	M
3 R-PSDA										M
440.90 > 241.00	6.506	6.526	-0.020		9621	0.002401		96.0	159	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.590	6.590	0.0		33384	0.002554		102	722	M
23 PMPA										M
229.00 > 185.00	6.803	6.803	0.0		68421	0.002793		112	39.4	M
5 NVHOS										M
297.00 > 135.00	7.182	7.182	0.0		22040	0.002332		93.3	383	M
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		44368	0.002397		95.9	238	
22 PEPA										
278.90 > 234.90	8.331	8.330	0.001		20946	0.002230		89.2	83.6	
7 PES										
314.90 > 135.00	8.588	8.622	-0.034		81222	0.002242		89.7	1569	
8 PFECA B										
295.00 > 201.00	8.827	8.827	0.0		36557	0.002455		98.2	734	
9 PFO3OA										
310.90 > 85.00	9.046	9.074	-0.028		16140	0.002177		87.1	341	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.158	9.187	-0.029		1952104	0.2322		92.9	33920	M
11 HPFO-DA										
285.00 > 169.00	9.158	9.187	-0.029	1.000	22836	0.002557		102	502	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.523	9.555	-0.032		180033	0.002304		92.2	4750	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.588	9.587	0.001		11413749	0.2634		105	57923	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.587	-0.032		246991	0.002481		99.2	3444	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.588	9.587	0.001	1.000	122787	0.002323	Target=0.00	92.9	706	
363.00 > 169.00	9.588	9.587	0.001	1.000	36167		3.40(0.00-0.00)	92.9	489	
15 Hydro-PS Acid										
463.00 > 262.90	9.588	9.616	-0.028		89921	0.002500		100	2074	
17 PFECA G										
378.90 > 184.90	9.702	9.731	-0.029		25376	0.002353		94.1	732	
18 PFO4DA										
376.90 > 85.00	9.846	9.874	-0.028		22075	0.002386		95.4	480	
19 PS Acid										
443.00 > 146.90	9.903	9.932	-0.029		37306	0.002363		94.5	1072	
20 EVE Acid										
407.00 > 262.90	9.932	9.932	0.0		162642	0.002459		98.4	4656	
21 TAF										M
442.90 > 85.00	10.425	10.449	-0.024		16264	0.002168		86.7	114	M

**QC Flag Legend**

Processing Flags

Review Flags

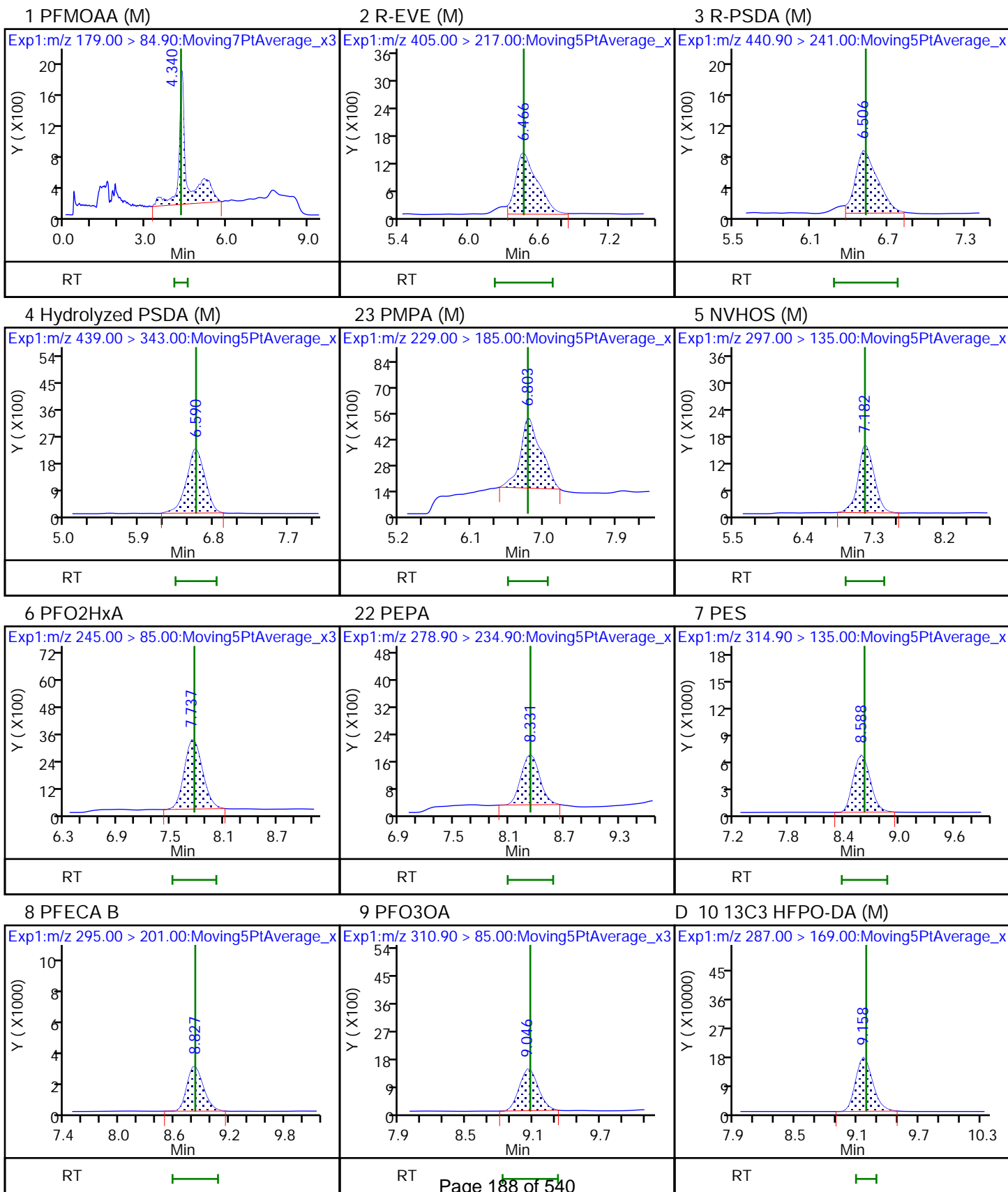
M - Manually Integrated

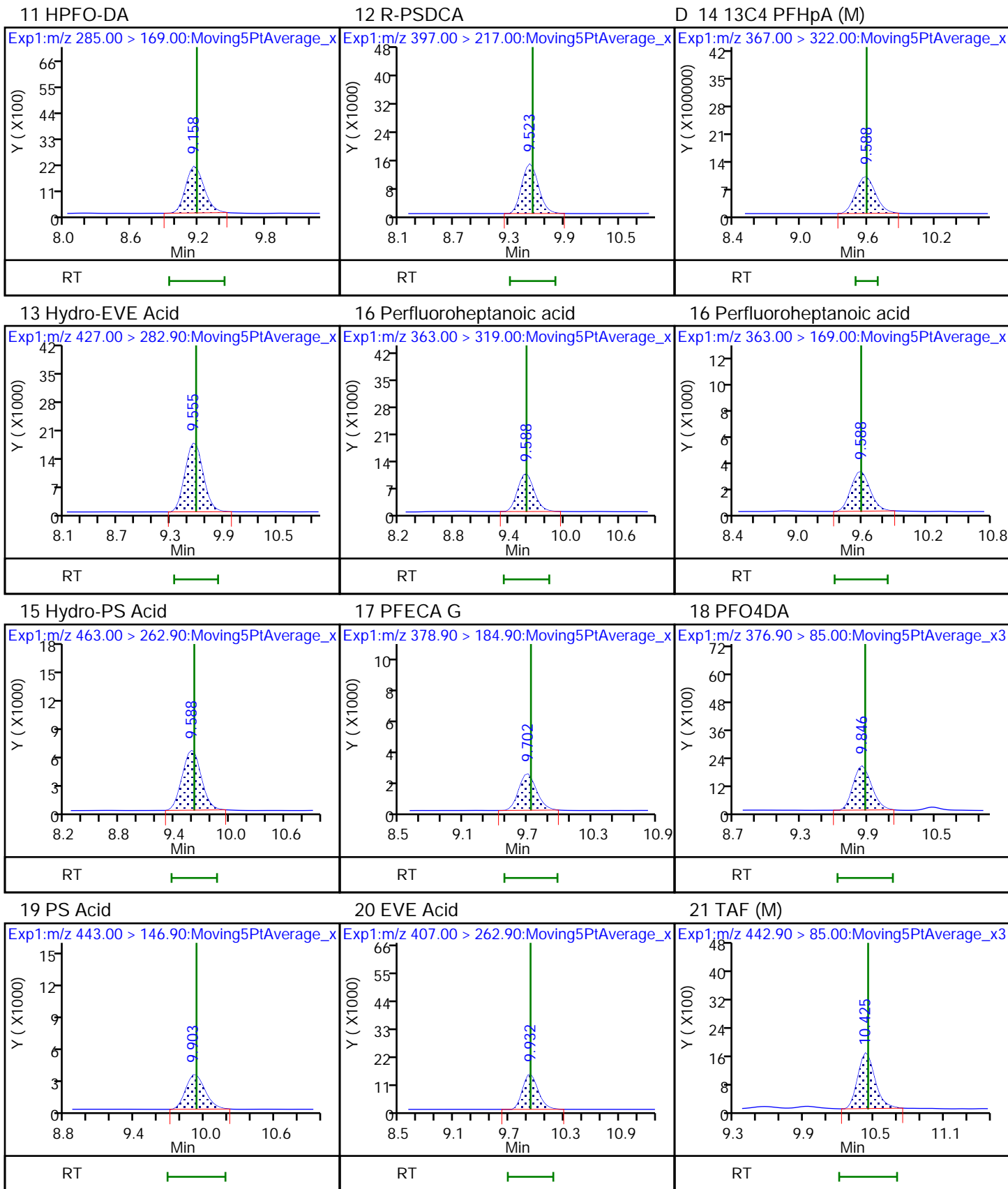
**Reagents:**

LCTB3\_LLSTD2\_00045

Amount Added: 1.00

Units: mL







Eurofins TestAmerica, Sacramento

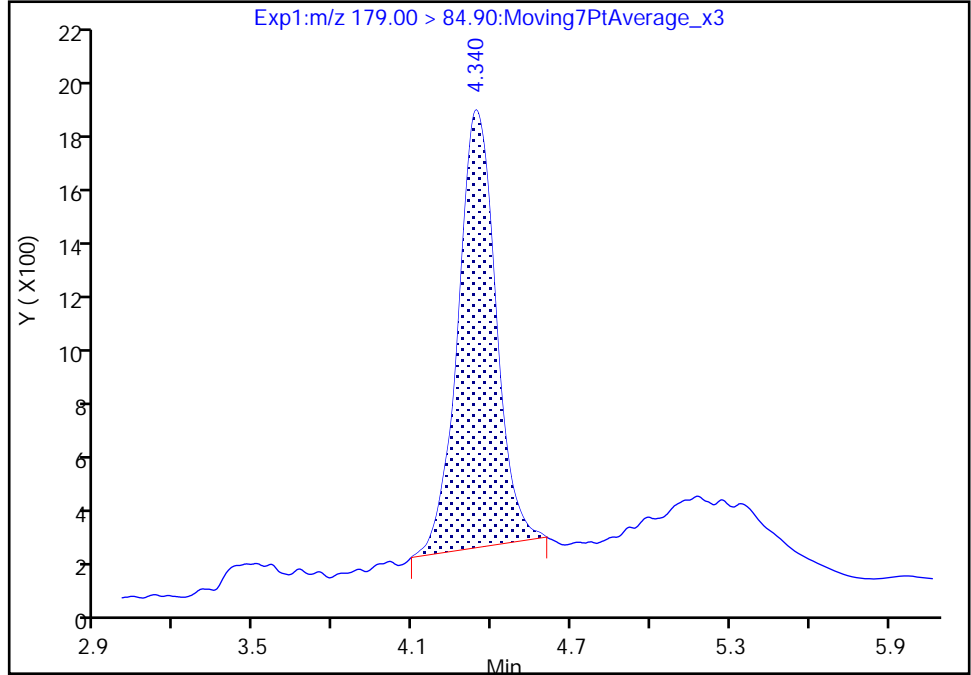
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Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

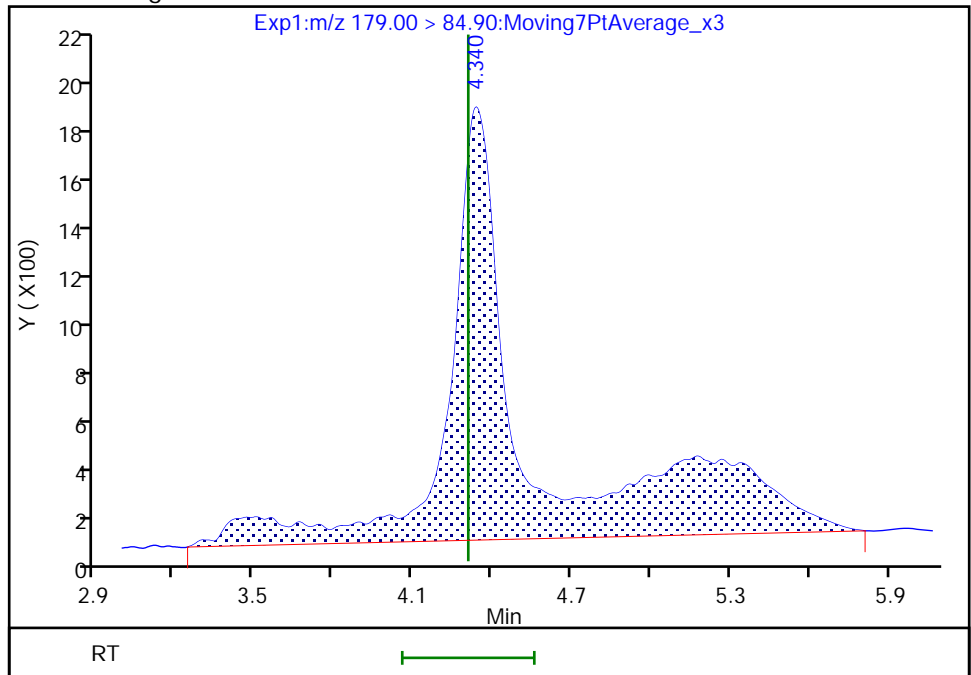
RT: 4.34  
Area: 15741  
Amount: 0.001735  
Amount Units: ng/ml

Processing Integration Results



RT: 4.34  
Area: 37389  
Amount: 0.002392  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

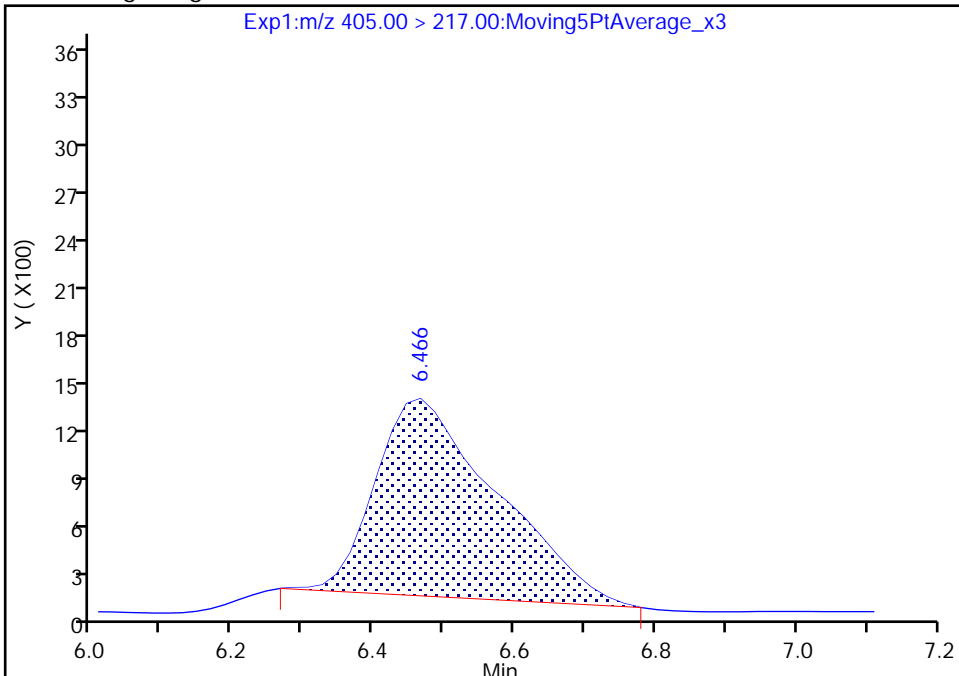
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_005.d  
Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

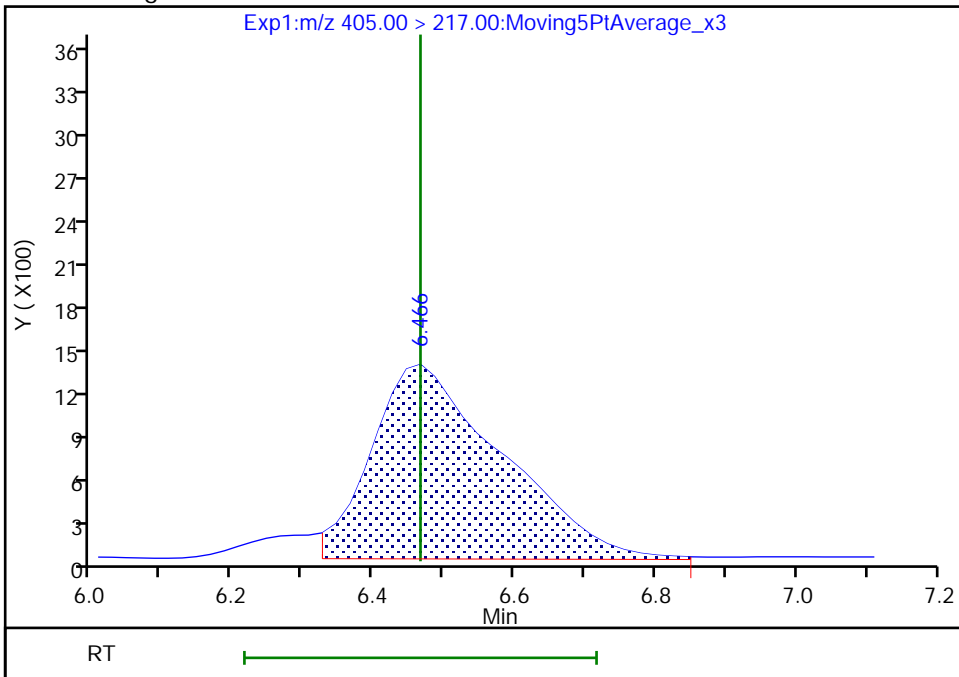
RT: 6.47  
Area: 14952  
Amount: 0.001996  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 17569  
Amount: 0.002359  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:50:10  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

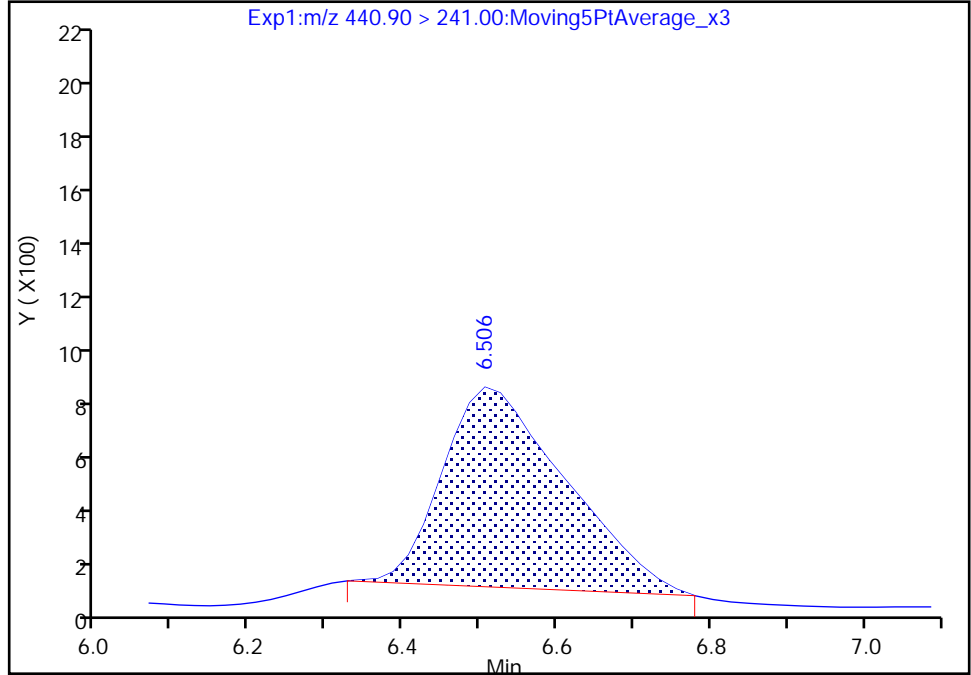
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_005.d  
Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

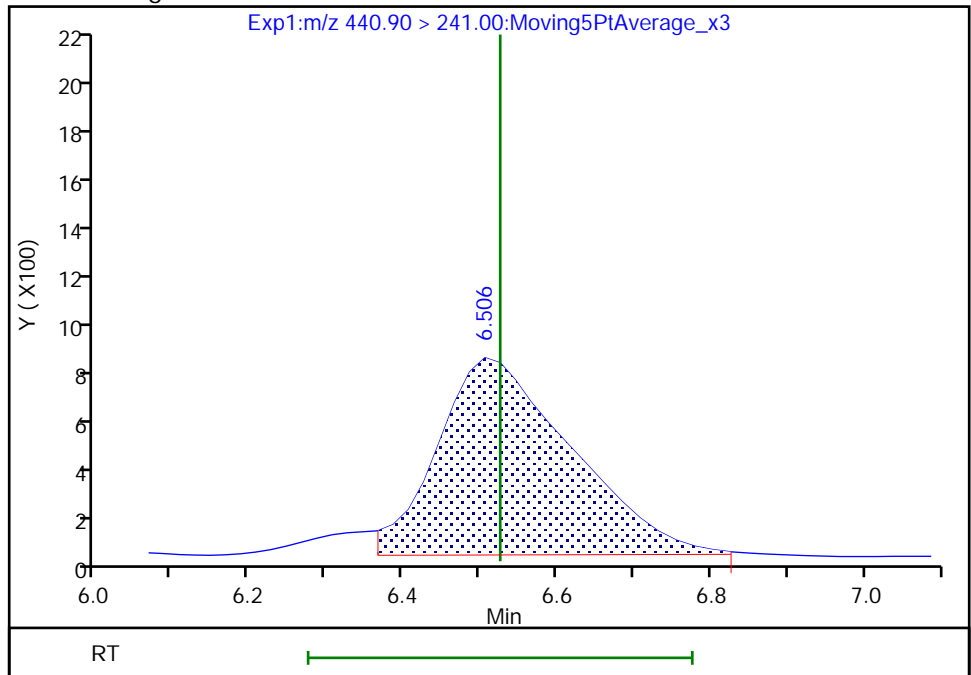
RT: 6.51  
Area: 8098  
Amount: 0.001998  
Amount Units: ng/ml

Processing Integration Results



RT: 6.51  
Area: 9621  
Amount: 0.002401  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:50:16  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 193 of 540

Eurofins TestAmerica, Sacramento

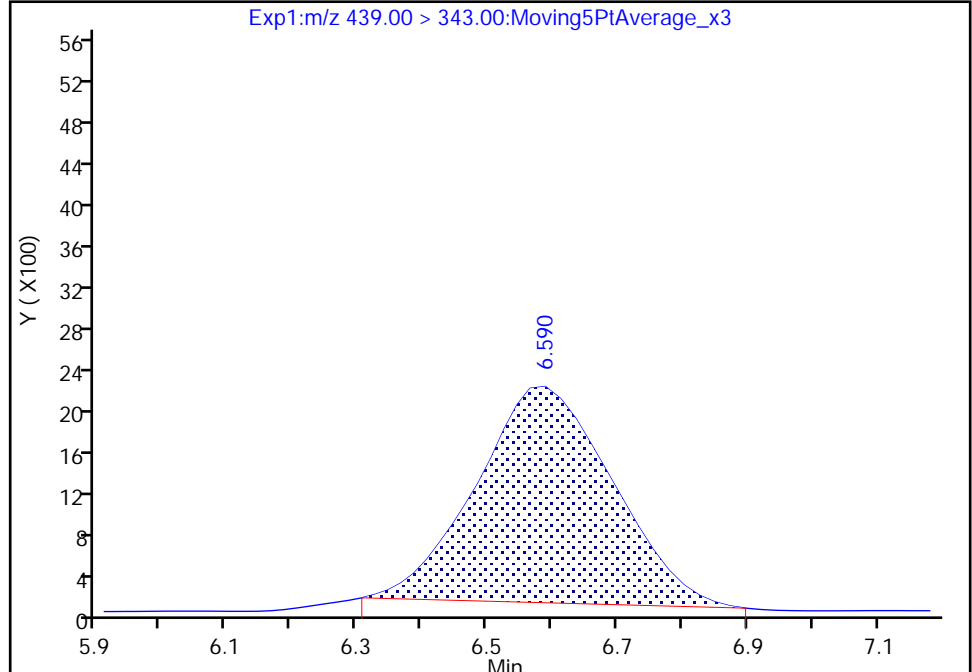
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_005.d  
Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

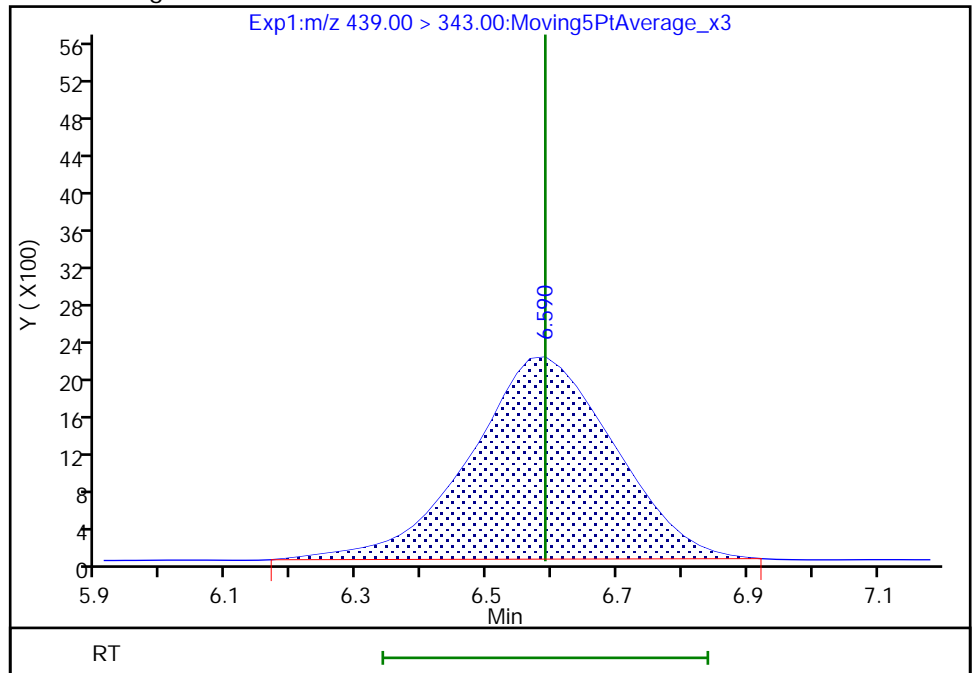
RT: 6.59  
Area: 30503  
Amount: 0.002326  
Amount Units: ng/ml

Processing Integration Results



RT: 6.59  
Area: 33384  
Amount: 0.002554  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:52:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

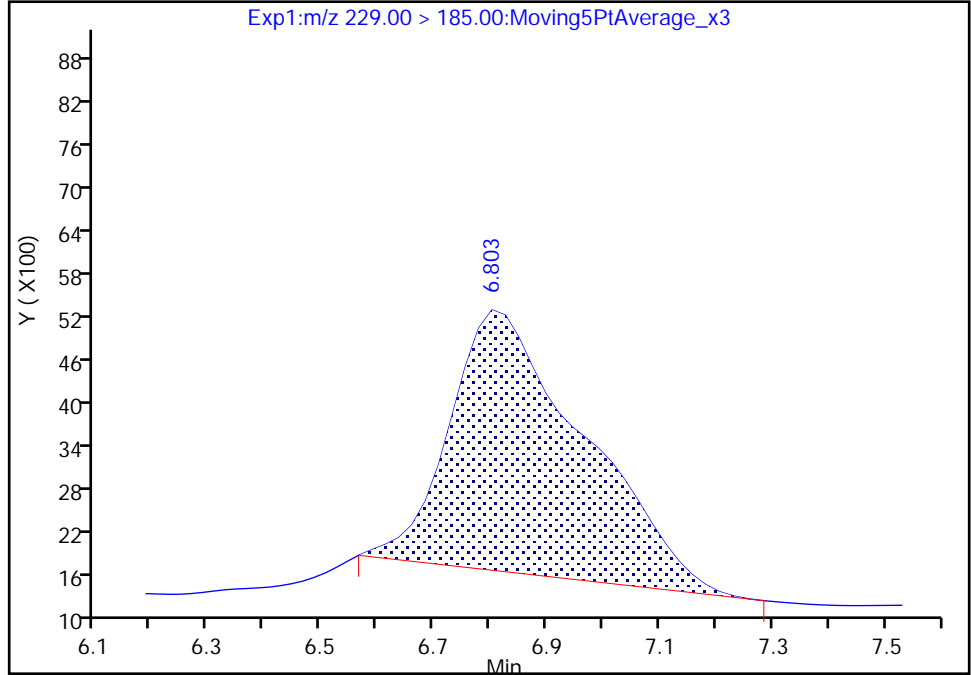
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_005.d  
Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

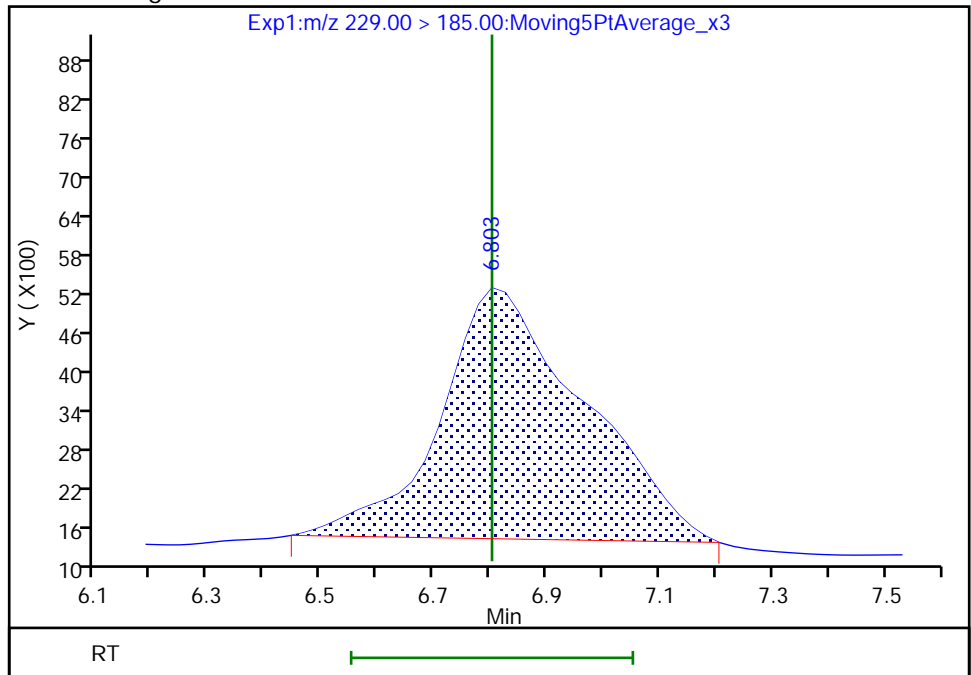
RT: 6.80  
Area: 60401  
Amount: 0.002310  
Amount Units: ng/ml

Processing Integration Results



RT: 6.80  
Area: 68421  
Amount: 0.002793  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 07-Feb-2021 11:54:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

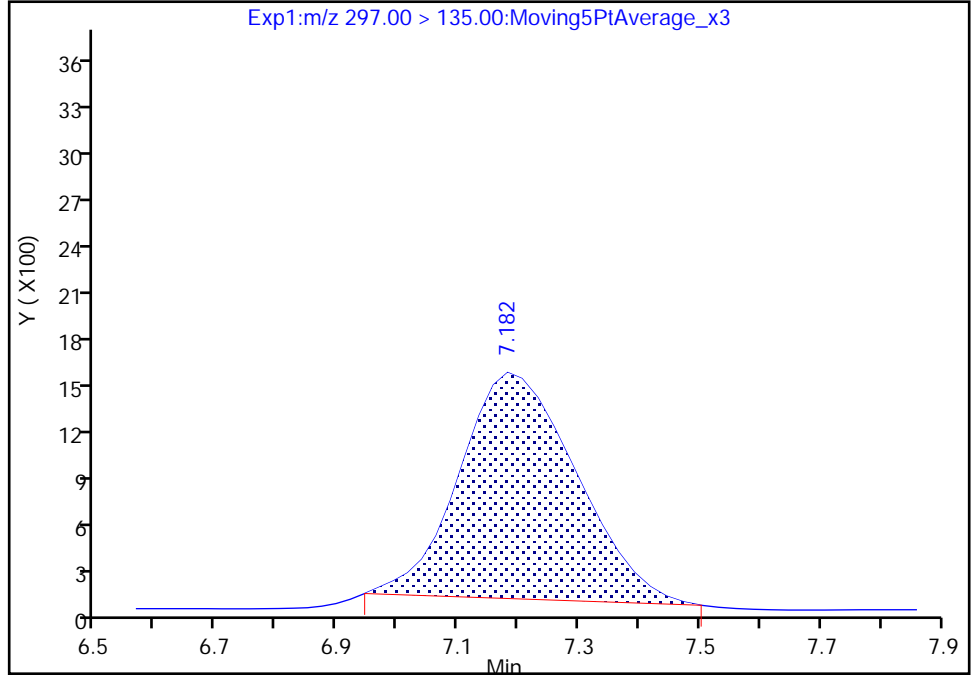
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Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

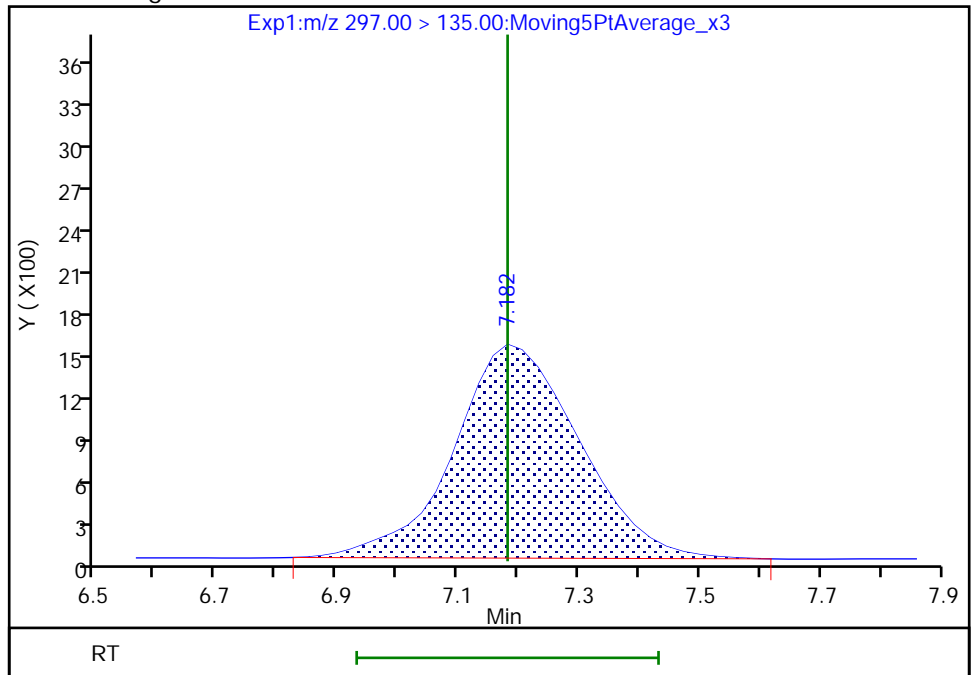
RT: 7.18  
Area: 19678  
Amount: 0.002103  
Amount Units: ng/ml

Processing Integration Results



RT: 7.18  
Area: 22040  
Amount: 0.002332  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:54:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

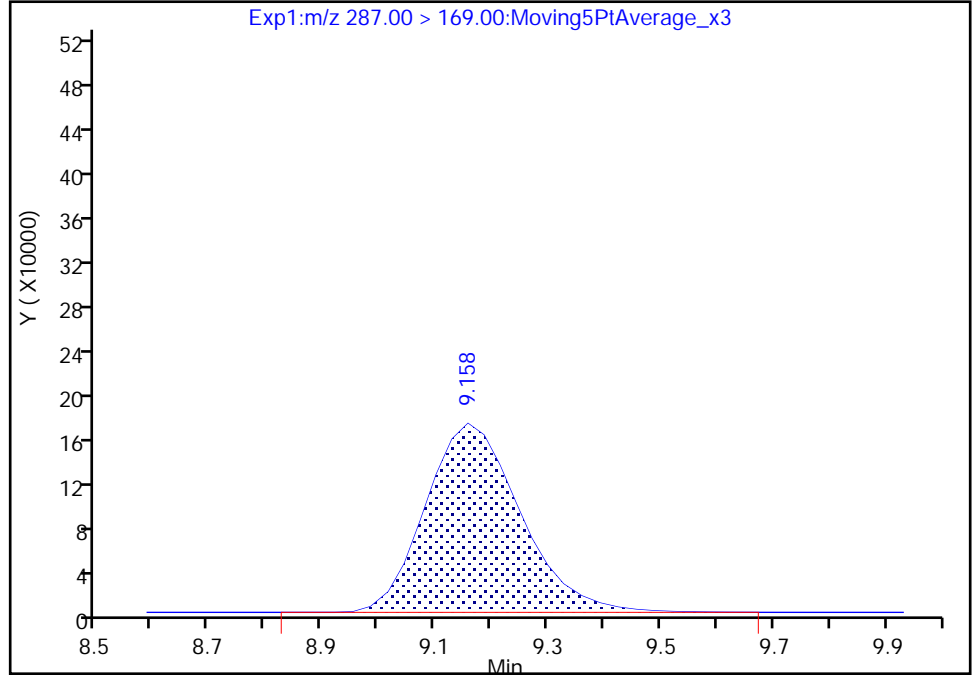
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Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

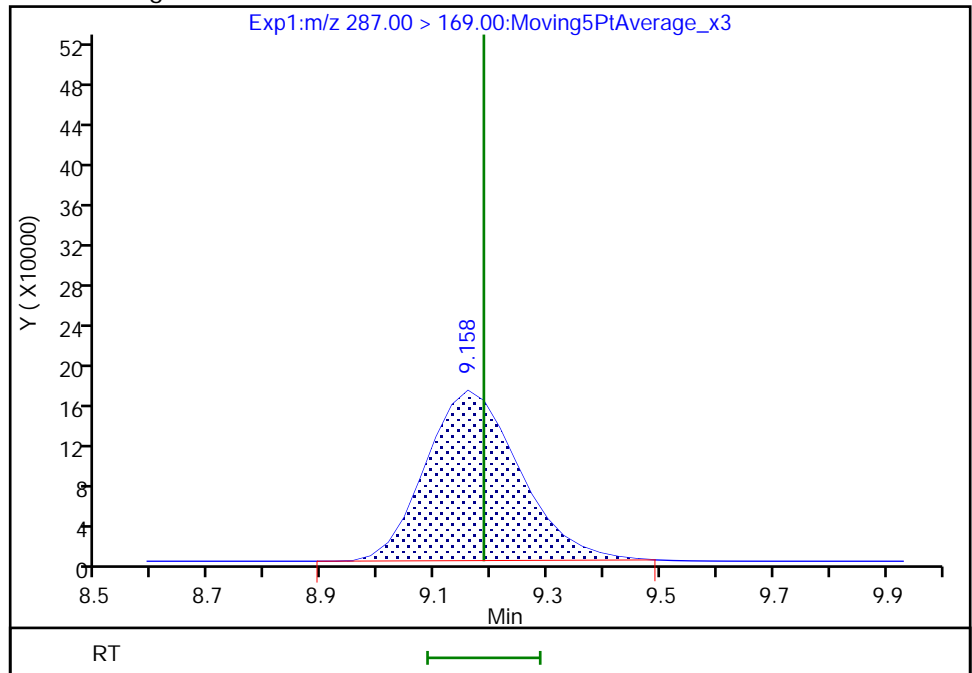
RT: 9.16  
Area: 1979575  
Amount: 0.233957  
Amount Units: ng/ml

Processing Integration Results



RT: 9.16  
Area: 1952104  
Amount: 0.232216  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:57:46  
Audit Action: Manually Integrated

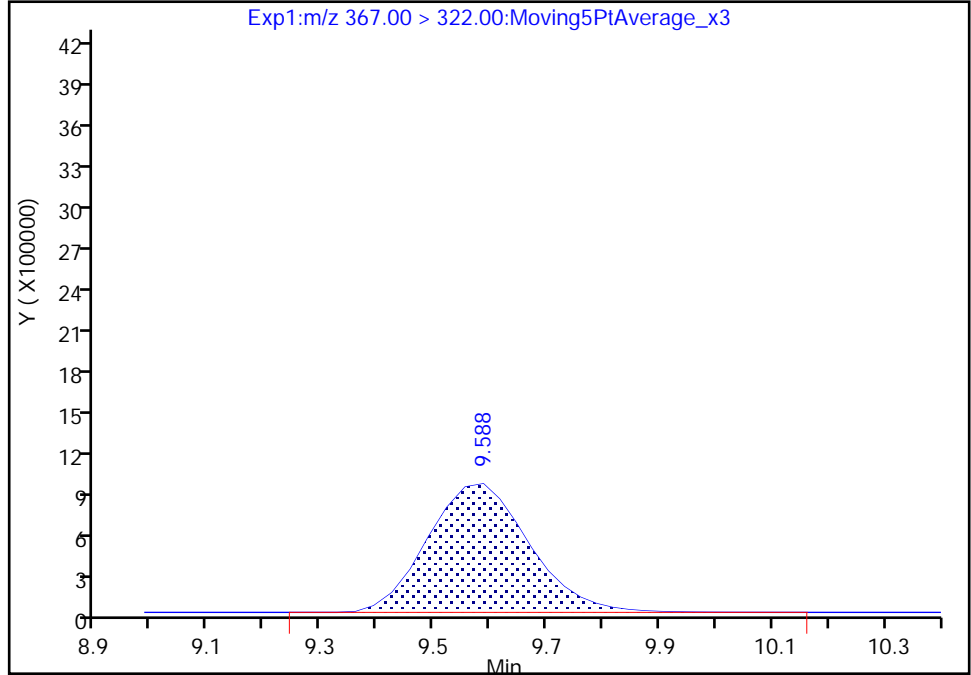
Eurofins TestAmerica, Sacramento

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Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 14 13C4 PFHpA, CAS: STL01892**  
Signal: 1

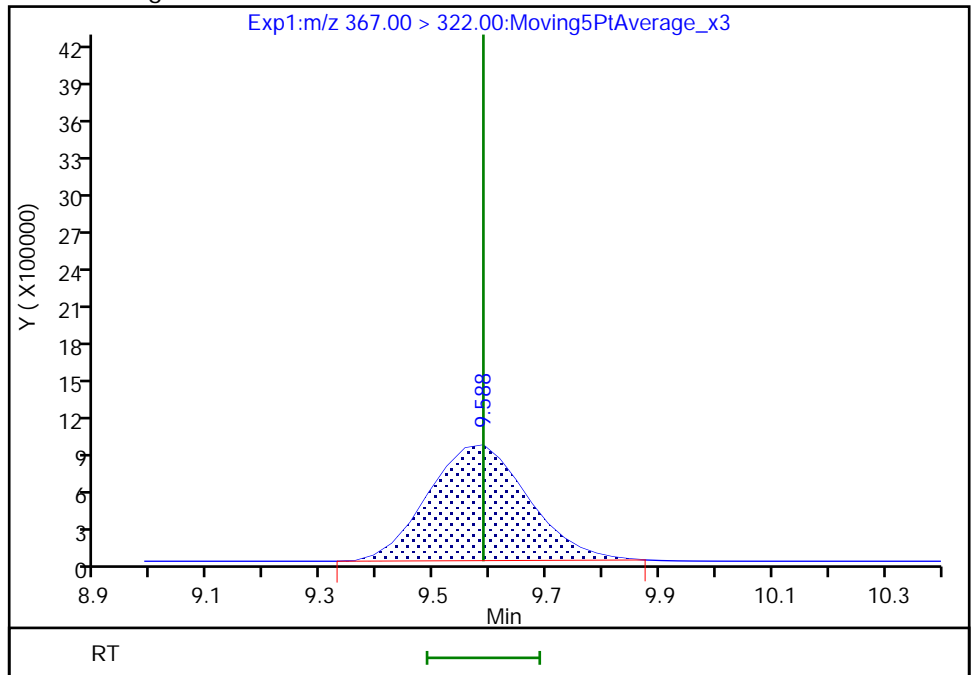
RT: 9.59  
Area: 11611354  
Amount: 0.274592  
Amount Units: ng/ml

Processing Integration Results



RT: 9.59  
Area: 11413749  
Amount: 0.263362  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:57:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

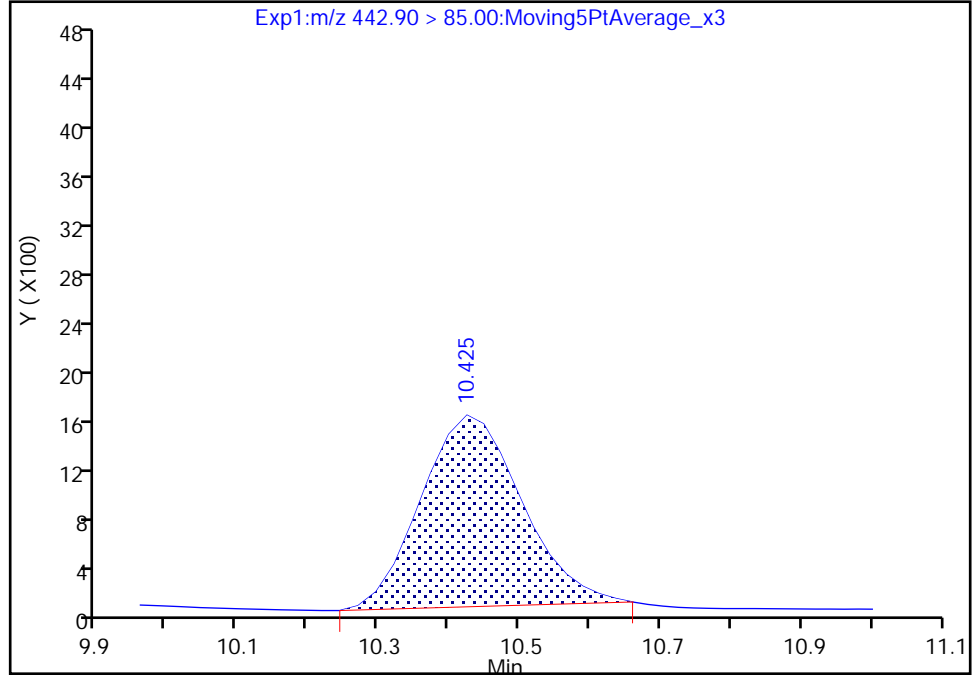
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Injection Date: 06-Feb-2021 12:59:37 Instrument ID: A12  
Lims ID: IC STD 2 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

21 TAF, CAS: 39492-91-6

Signal: 1

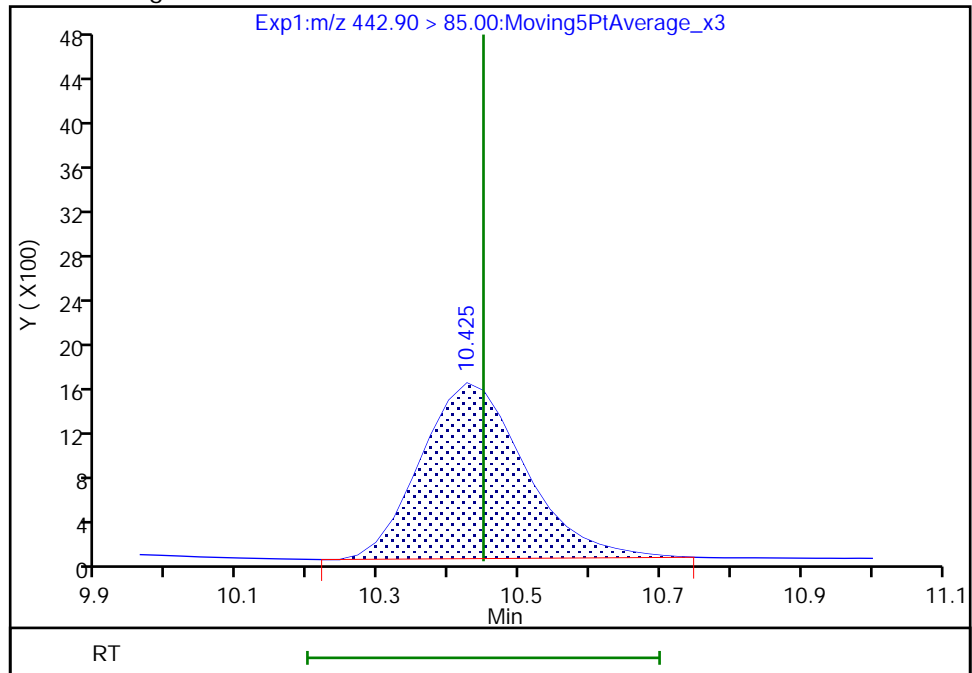
RT: 10.43  
Area: 15519  
Amount: 0.002161  
Amount Units: ng/ml

Processing Integration Results



RT: 10.43  
Area: 16264  
Amount: 0.002168  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:52:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_006.d  
 Lims ID: IC STD 3 (45)  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 06-Feb-2021 13:17:11 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (45)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:33 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 11:53:24

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.271	4.309	-0.038		76819	0.004914		98.3	15.3	M
2 R-EVE										M
405.00 > 217.00	6.446	6.466	-0.020		35384	0.004751		95.0	467	M
3 R-PSDA										M
440.90 > 241.00	6.486	6.526	-0.040		20269	0.005058		101	264	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.566	6.590	-0.024		64013	0.004897		97.9	1379	M
23 PMPA										M
229.00 > 185.00	6.803	6.803	0.0		131622	0.005373		107	82.1	M
5 NVHOS										M
297.00 > 135.00	7.158	7.182	-0.024		45082	0.004770		95.4	770	M
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		93086	0.005029		101	523	
22 PEPA										
278.90 > 234.90	8.330	8.330	0.0		48332	0.005146		103	187	
7 PES										
314.90 > 135.00	8.588	8.622	-0.034		181071	0.004998		100.0	3439	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		75572	0.005076		102	1501	
9 PFO3OA										
310.90 > 85.00	9.045	9.074	-0.029		37582	0.005069		101	787	
11 HPFO-DA										
285.00 > 169.00	9.158	9.187	-0.029	1.000	49529	0.005210		104	1414	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.158	9.187	-0.029		2078073	0.2472		98.9	59185	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.555	-0.033		388351	0.004971		99.4	10176	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		10643617	0.2456		98.2	65751	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.587	-0.032		542285	0.005446		109	6295	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	237368	0.004816	Target=0.00	96.3	1441	
363.00 > 169.00	9.555	9.587	-0.032	1.000	71790		3.31(0.00-0.00)	96.3	957	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.616	-0.029		182135	0.005064		101	4151	
17 PFECA G										
378.90 > 184.90	9.674	9.731	-0.057		57904	0.005369		107	1634	
18 PFO4DA										
376.90 > 85.00	9.846	9.874	-0.028		47574	0.005141		103	819	
19 PS Acid										
443.00 > 146.90	9.903	9.932	-0.029		83006	0.005259		105	1798	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		356923	0.005396		108	10120	
21 TAF										
442.90 > 85.00	10.425	10.449	-0.024		37638	0.005018		100	269	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00045

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_006.d

Injection Date: 06-Feb-2021 13:17:11

Instrument ID: A12

Lims ID: IC STD 3 (45)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 6

Worklist Smp#: 4

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

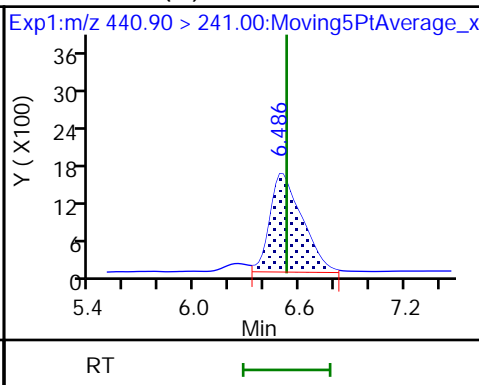
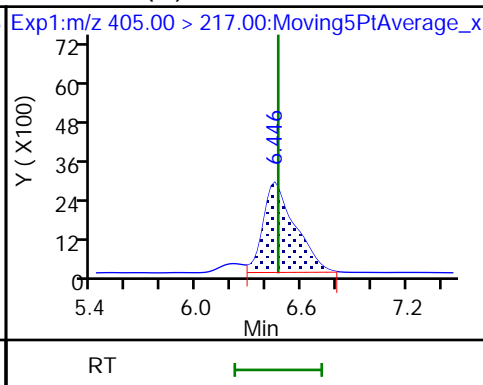
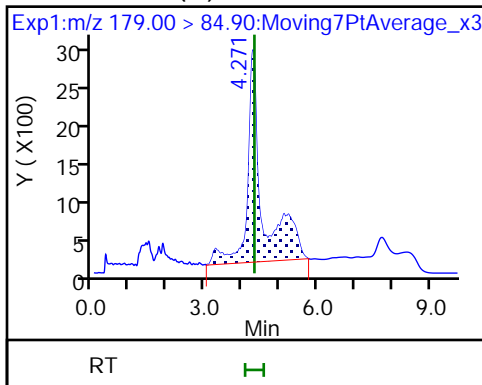
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

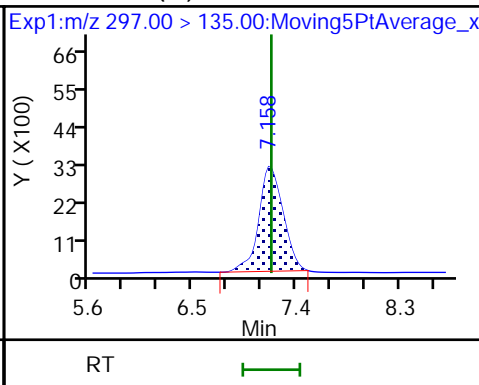
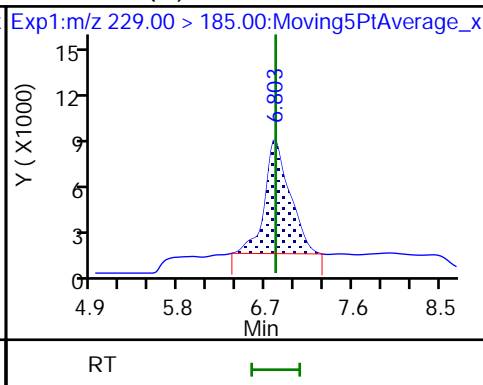
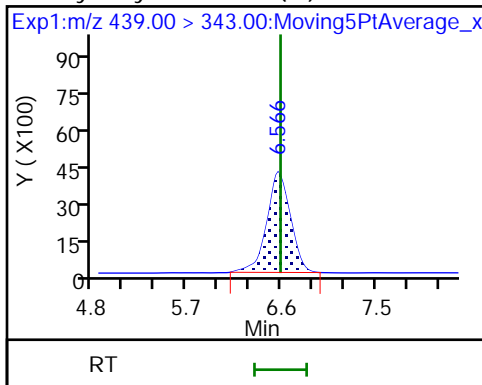
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA (M)

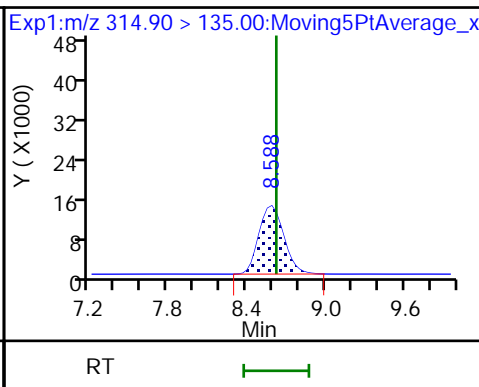
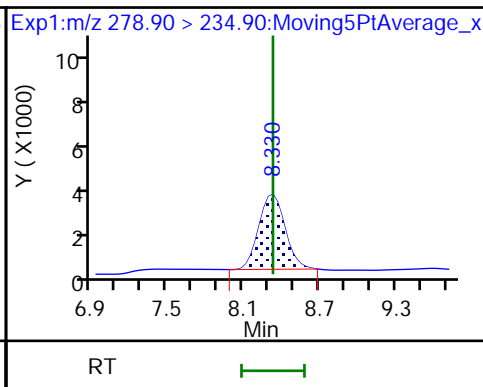
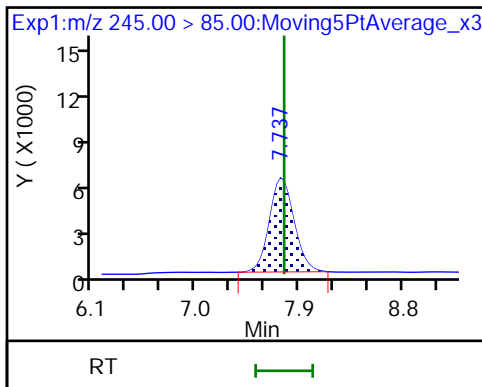
5 NVHOS (M)



6 PFO2HxA

22 PEPA

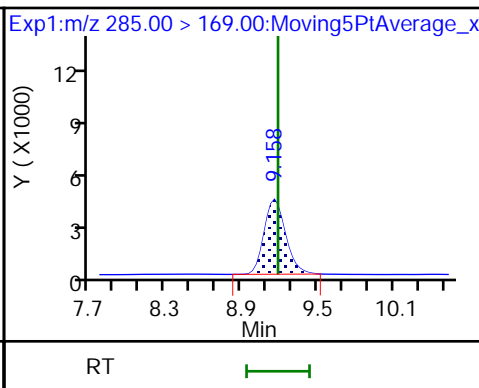
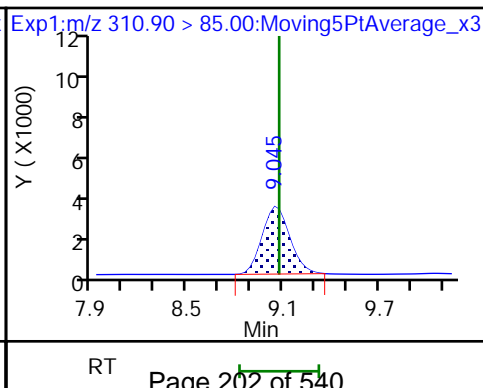
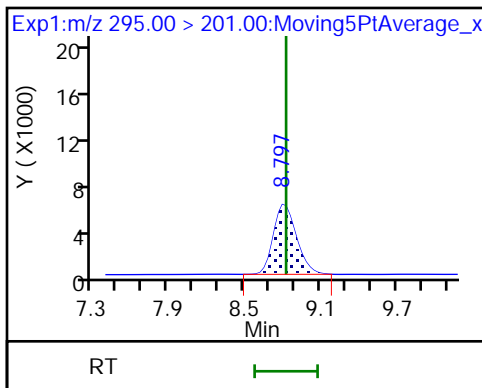
7 PES



8 PFECA B

9 PFO3OA

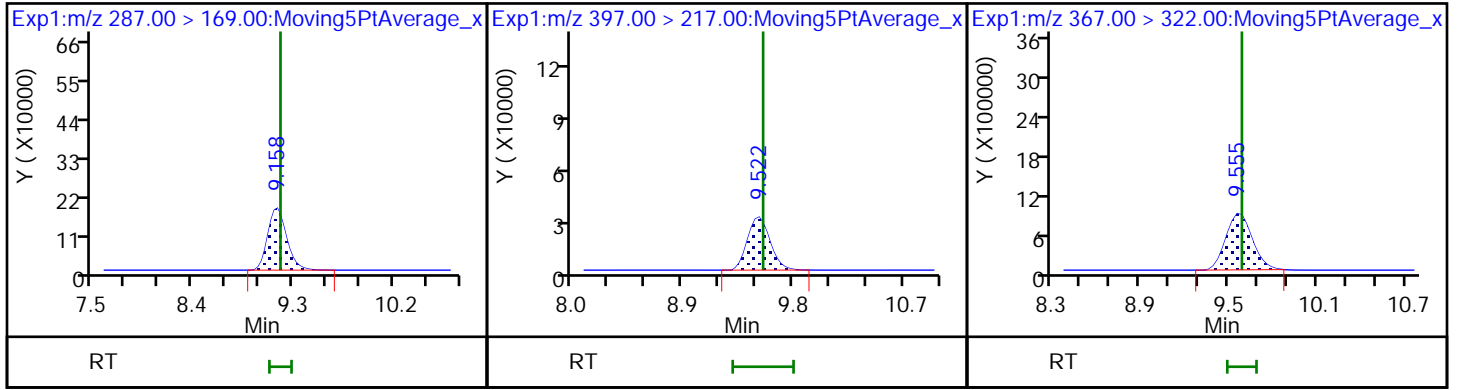
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

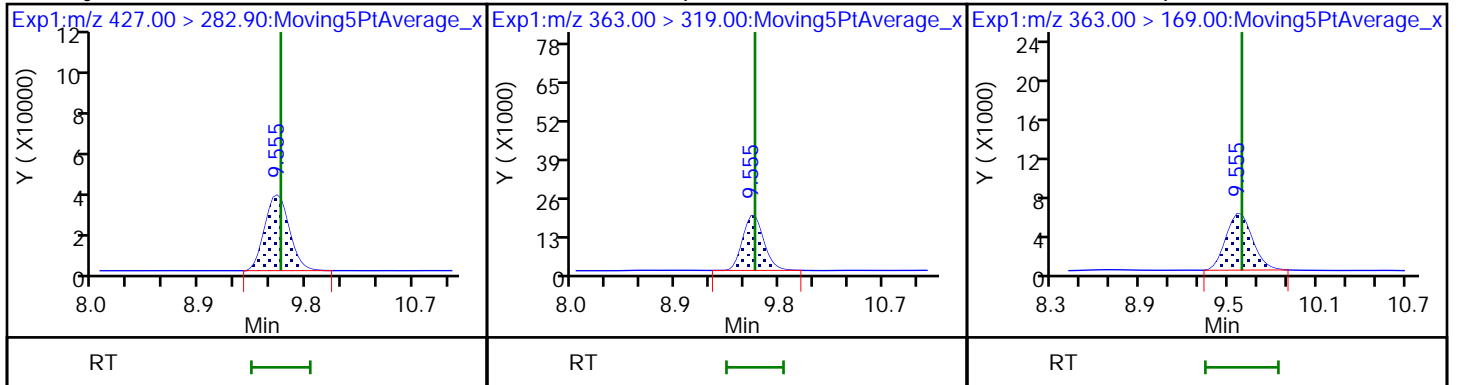
D 14 13C4 PFHpA (M)



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

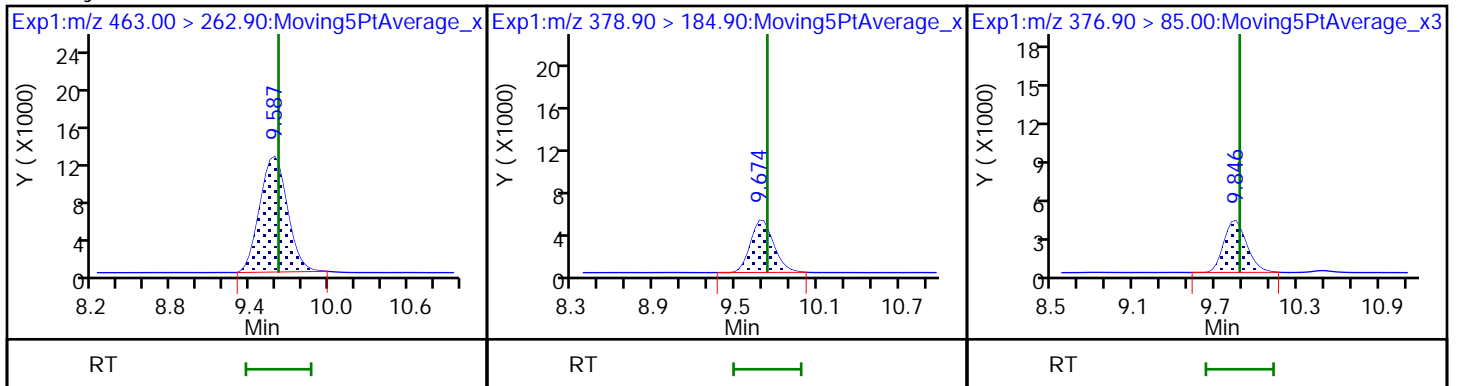
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

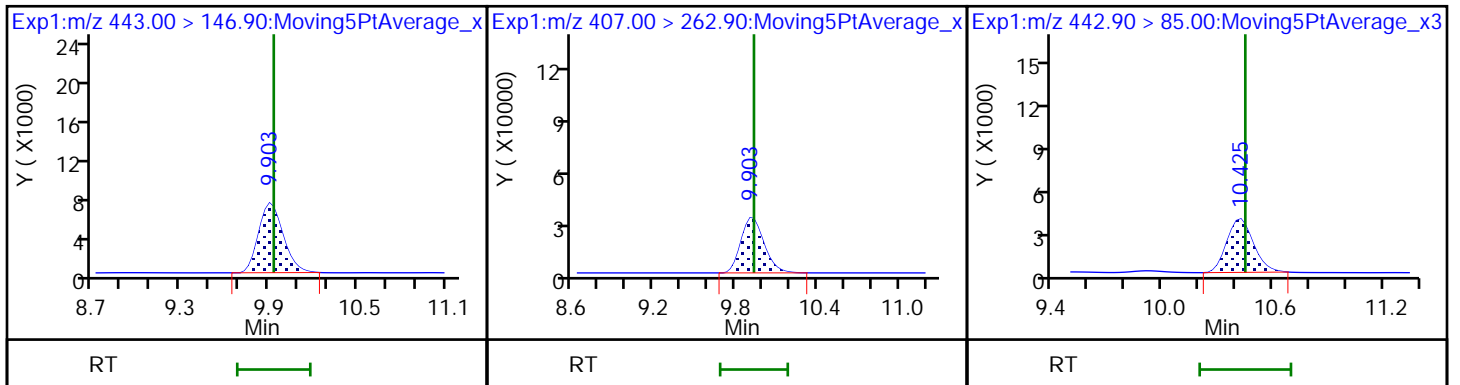
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

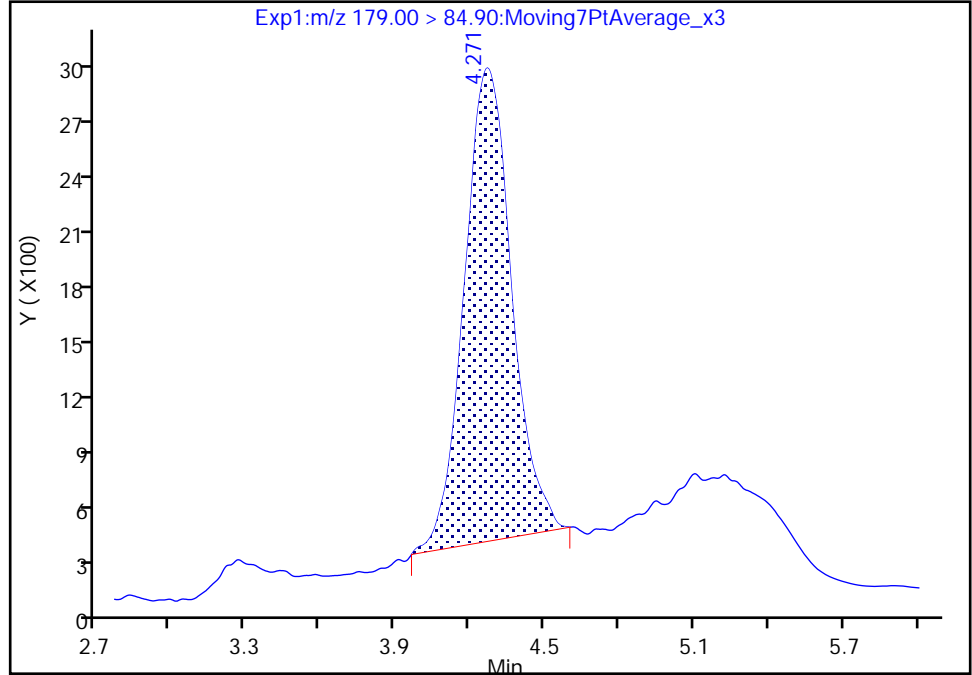
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Injection Date: 06-Feb-2021 13:17:11 Instrument ID: A12  
Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

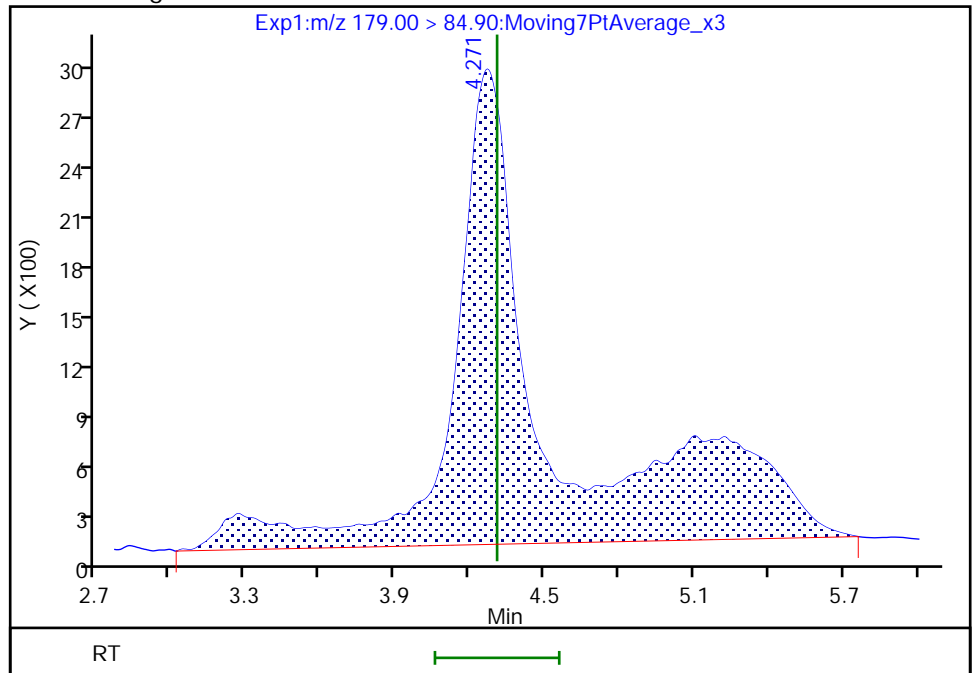
RT: 4.27  
Area: 33242  
Amount: 0.003344  
Amount Units: ng/ml

Processing Integration Results



RT: 4.27  
Area: 76819  
Amount: 0.004914  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

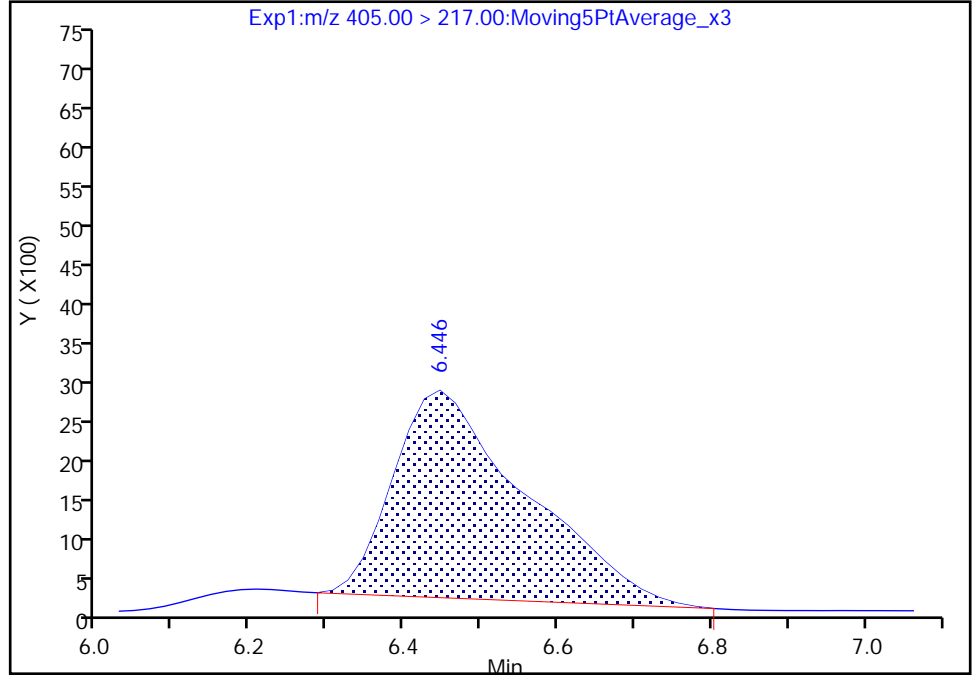
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Injection Date: 06-Feb-2021 13:17:11 Instrument ID: A12  
Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

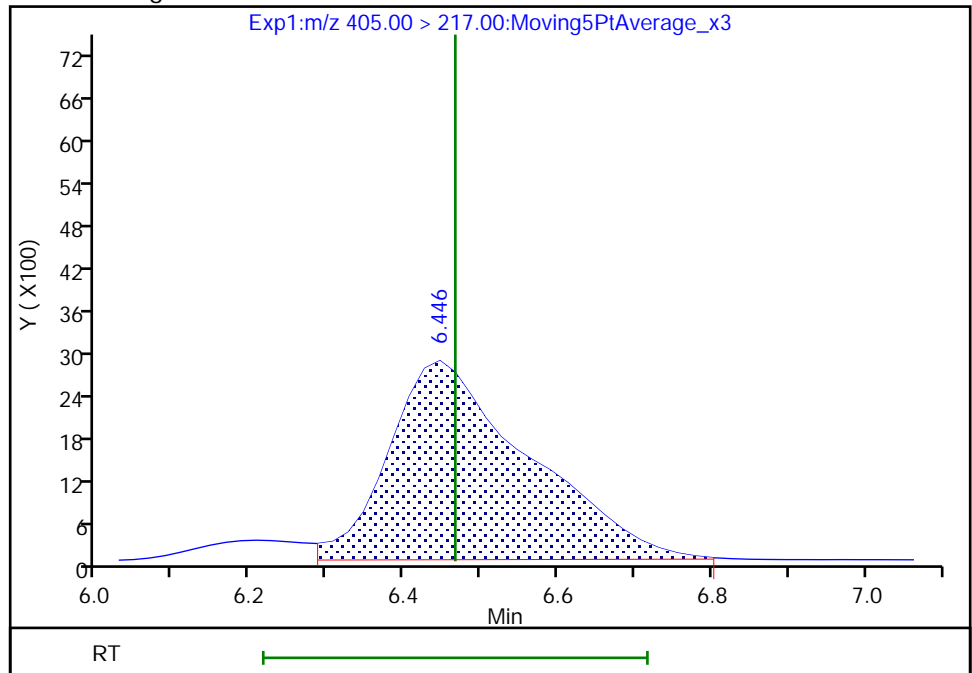
RT: 6.45  
Area: 31501  
Amount: 0.004133  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
Area: 35384  
Amount: 0.004751  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:50:39  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

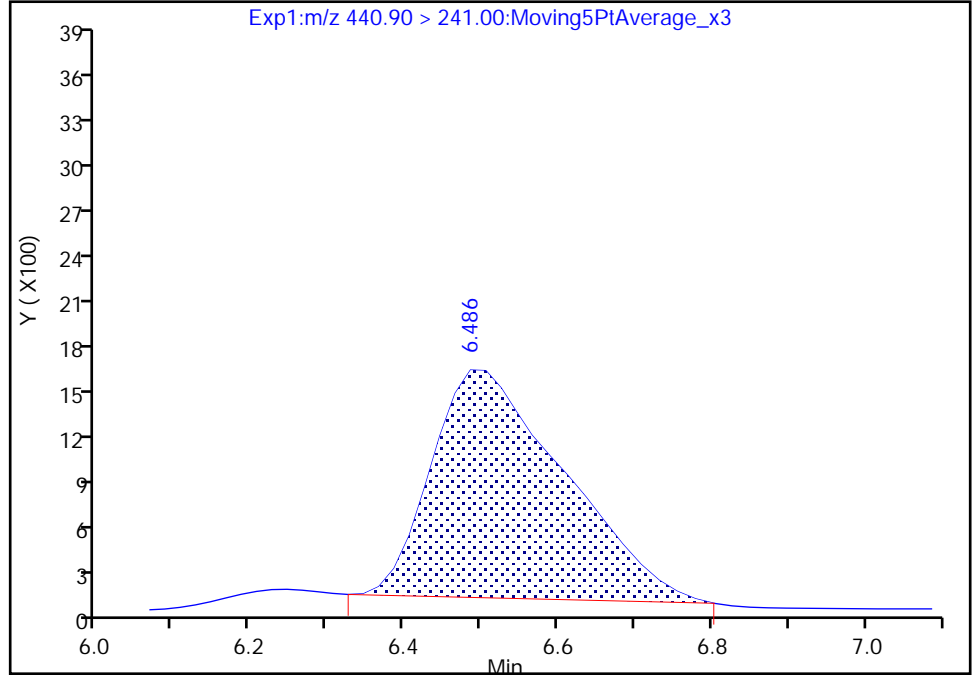
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Injection Date: 06-Feb-2021 13:17:11 Instrument ID: A12  
Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

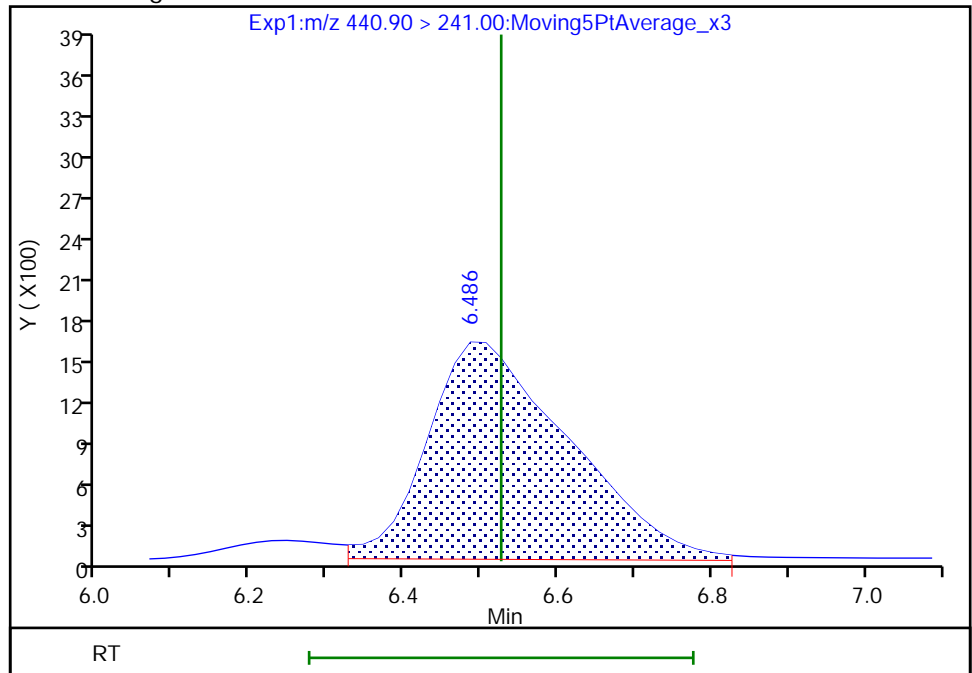
RT: 6.49  
Area: 18029  
Amount: 0.004358  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
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Amount: 0.005058  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:50:48  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

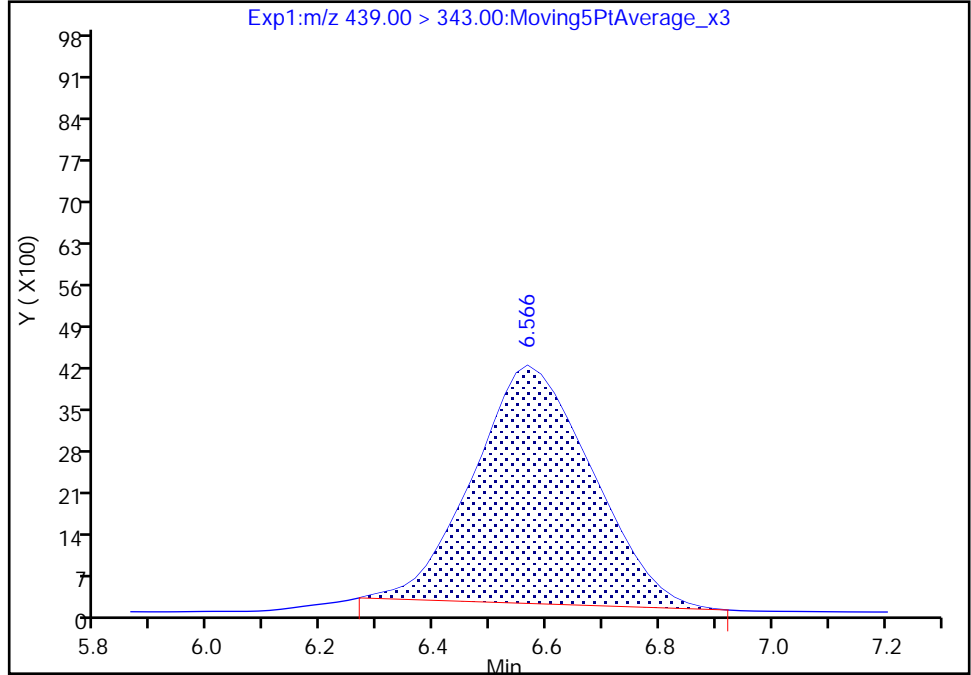
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Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

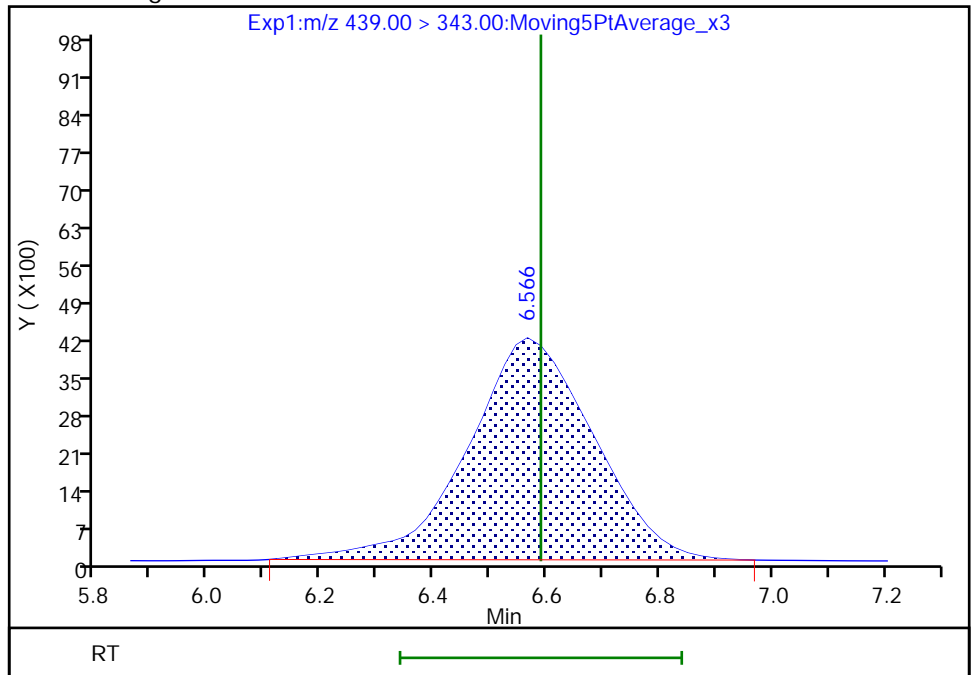
RT: 6.57  
Area: 58562  
Amount: 0.004426  
Amount Units: ng/ml

Processing Integration Results



RT: 6.57  
Area: 64013  
Amount: 0.004897  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:53:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

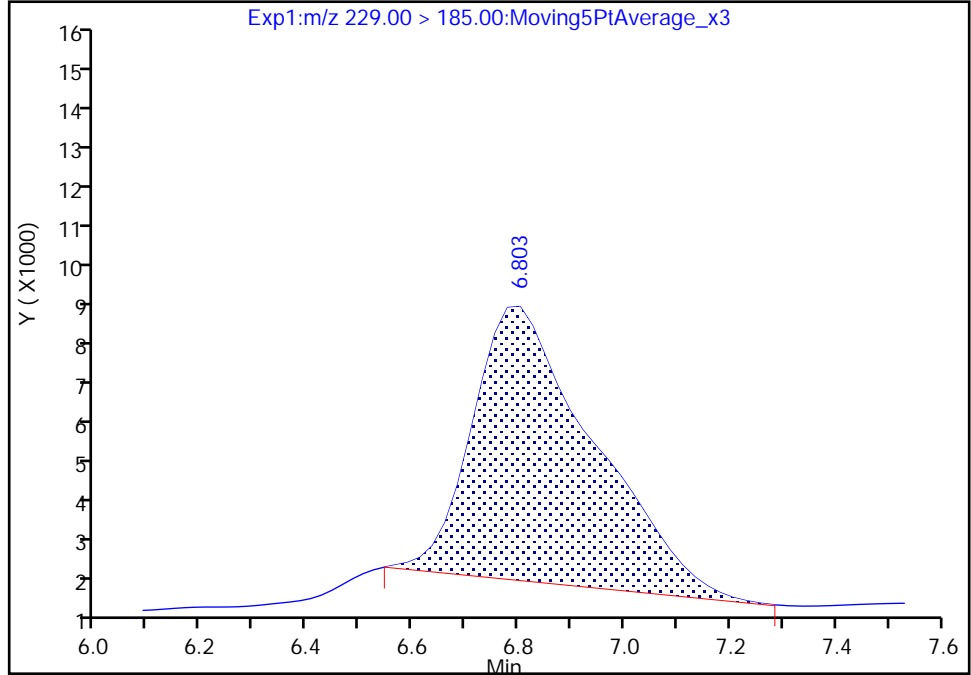
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Injection Date: 06-Feb-2021 13:17:11 Instrument ID: A12  
Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

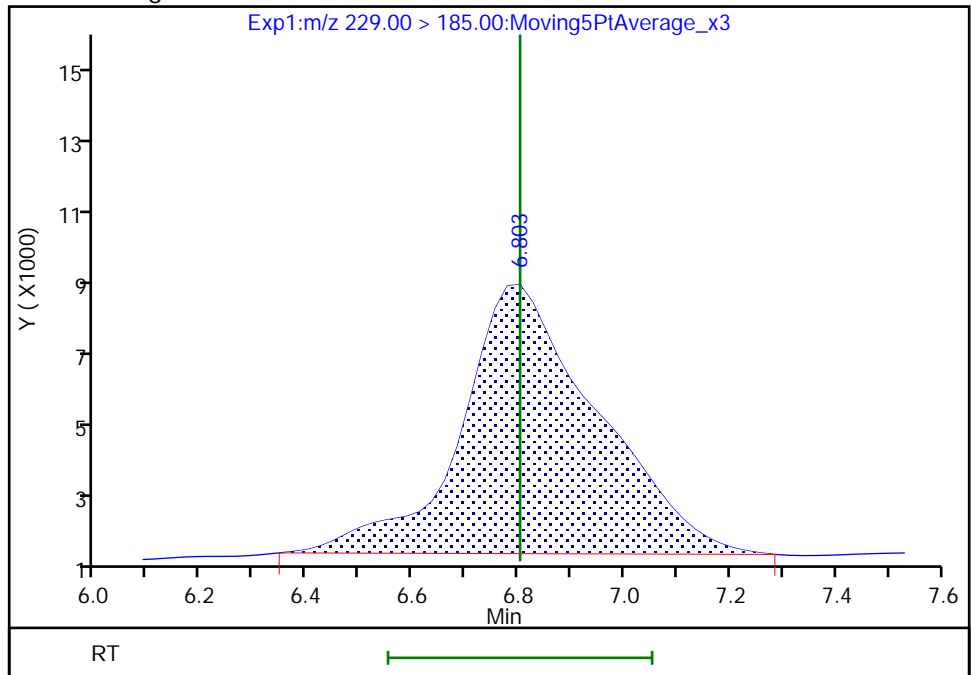
RT: 6.80  
Area: 107821  
Amount: 0.004200  
Amount Units: ng/ml

Processing Integration Results



RT: 6.80  
Area: 131622  
Amount: 0.005373  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:54:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

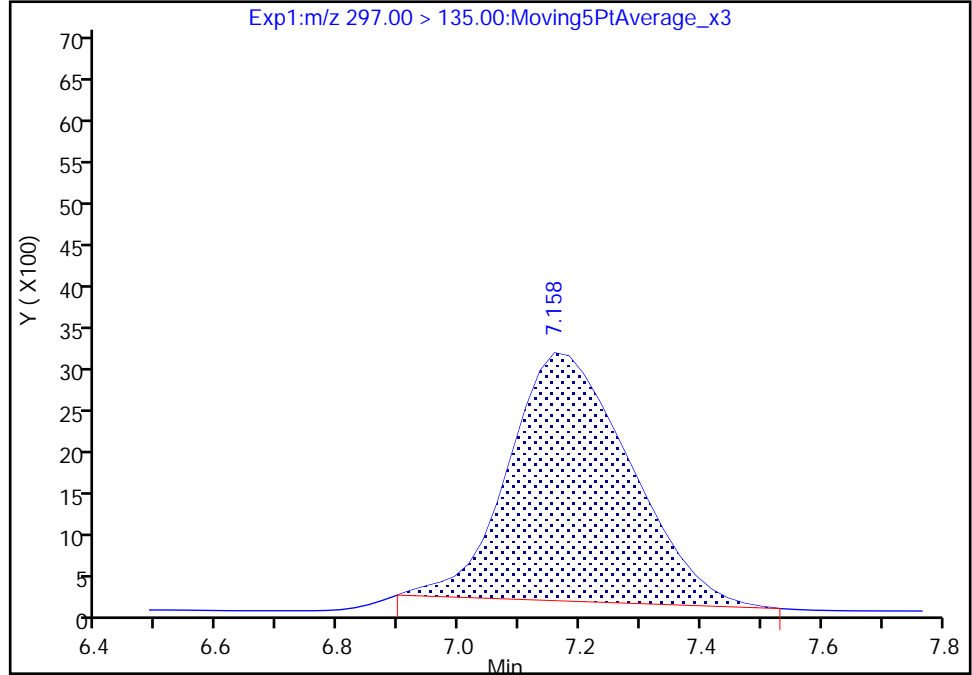
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Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

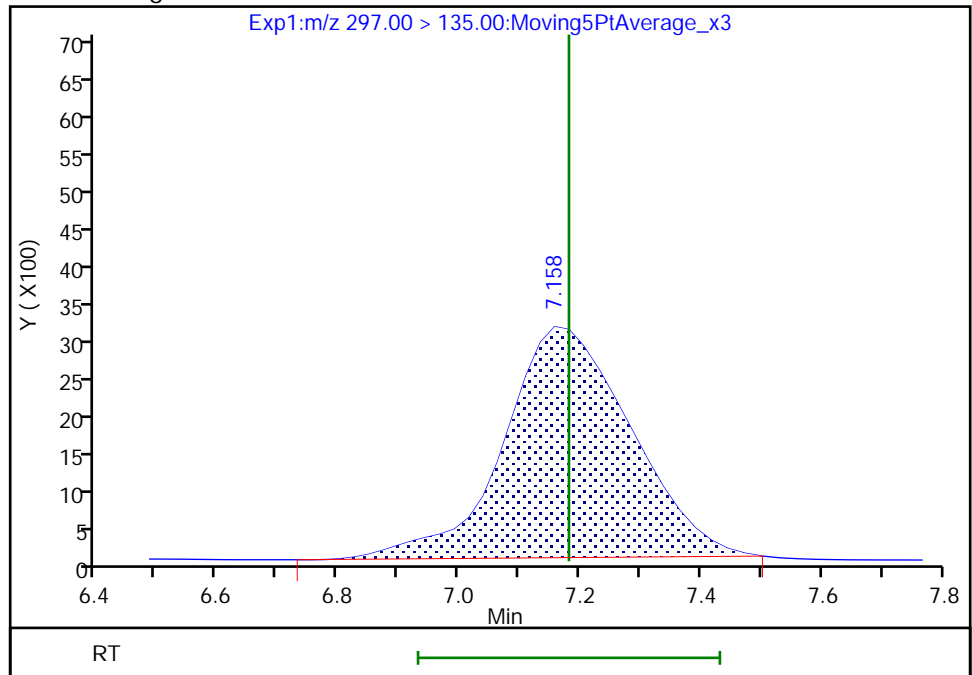
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Amount Units: ng/ml

Processing Integration Results



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Amount: 0.004770  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:54:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

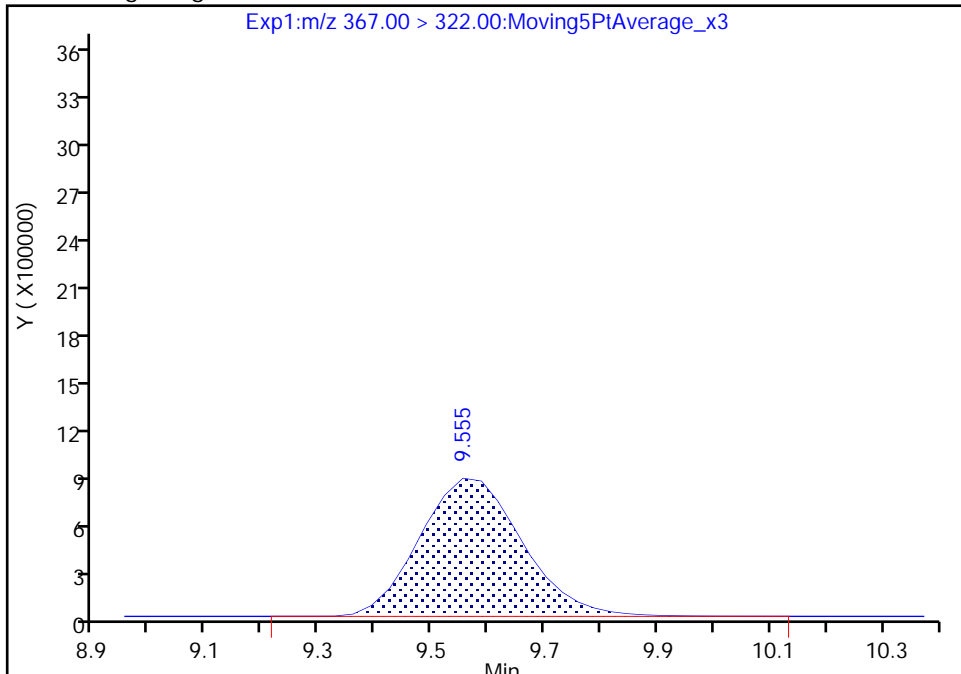
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Injection Date: 06-Feb-2021 13:17:11 Instrument ID: A12  
Lims ID: IC STD 3 (45)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

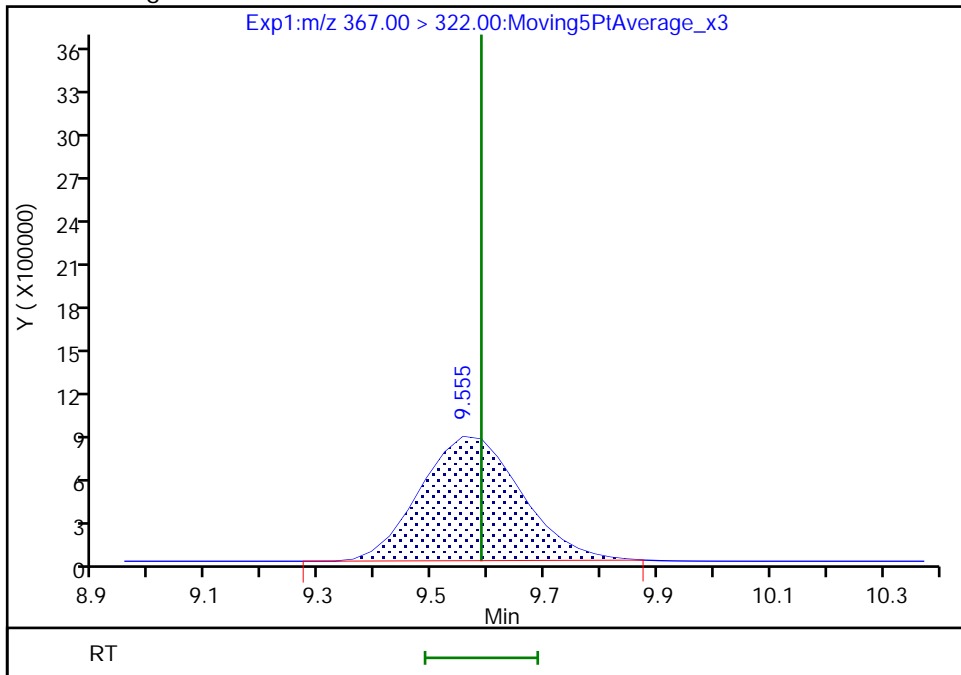
RT: 9.55  
Area: 10808060  
Amount: 0.256074  
Amount Units: ng/ml

Processing Integration Results



RT: 9.55  
Area: 10643617  
Amount: 0.245591  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:08

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_007.d  
 Lims ID: IC STD 4 (44)  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 06-Feb-2021 13:34:44 ALS Bottle#: 7 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (44)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:34 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerase Date: 07-Feb-2021 11:54:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.283	4.309	-0.026		148070	0.009472		94.7	32.9	M
2 R-EVE										M
405.00 > 217.00	6.446	6.466	-0.020		69248	0.009297		93.0	616	M
3 R-PSDA										M
440.90 > 241.00	6.486	6.526	-0.040		37890	0.009455		94.5	433	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.566	6.590	-0.024		117049	0.008954		89.5	1128	M
23 PMPA										M
229.00 > 185.00	6.803	6.803	0.0		235047	0.009595		96.0	153	M
5 NVHOS										
297.00 > 135.00	7.182	7.182	0.0		93626	0.0099		99.1	1588	
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		180889	0.009772		97.7	949	
22 PEPA										
278.90 > 234.90	8.330	8.330	0.0		95564	0.0102		102	364	
7 PES										
314.90 > 135.00	8.588	8.622	-0.034		349959	0.009659		96.6	8813	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		149845	0.0101		101	2988	
9 PFO3OA										
310.90 > 85.00	9.045	9.074	-0.029		77472	0.0104		104	1617	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.158	9.187	-0.029		2095869	0.2493		99.7	44661	M
11 HPFO-DA										
285.00 > 169.00	9.158	9.187	-0.029	1.000	94701	0.009877		98.8	2041	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.555	-0.033		826735	0.0106		106	16140	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		10423751	0.2405		96.2	104292	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.587	-0.032		1042951	0.0105		105	14576	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	482941	0.0100	Target=0.00	100	2561	
363.00 > 169.00	9.555	9.587	-0.032	1.000	135451		3.57(0.00-0.00)	100	2159	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.616	-0.029		373676	0.0104		104	8417	
17 PFECA G										
378.90 > 184.90	9.673	9.731	-0.058		108637	0.0101		101	3071	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		86958	0.009398		94.0	1865	
19 PS Acid										
443.00 > 146.90	9.903	9.932	-0.029		163483	0.0104		104	3537	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		646034	0.009767		97.7	18415	
21 TAF										
442.90 > 85.00	10.399	10.449	-0.050		71085	0.009477		94.8	464	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_007.d

Injection Date: 06-Feb-2021 13:34:44

Instrument ID: A12

Lims ID: IC STD 4 (44)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 7

Worklist Smp#: 5

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

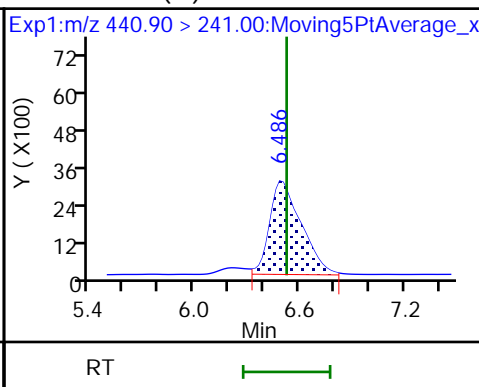
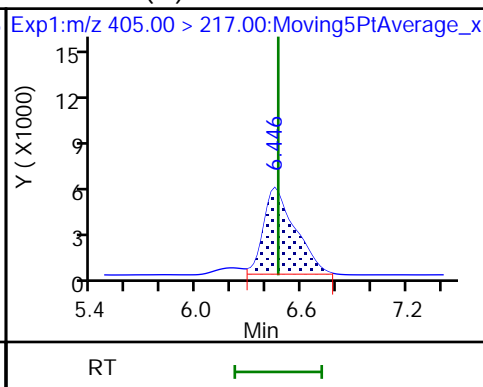
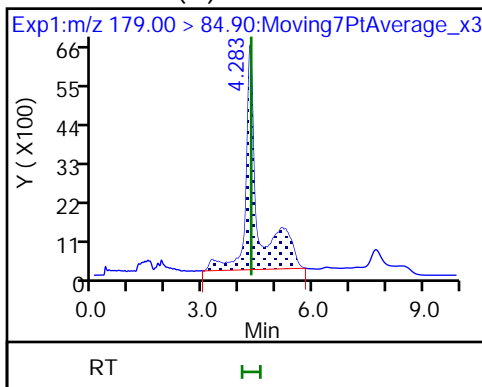
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

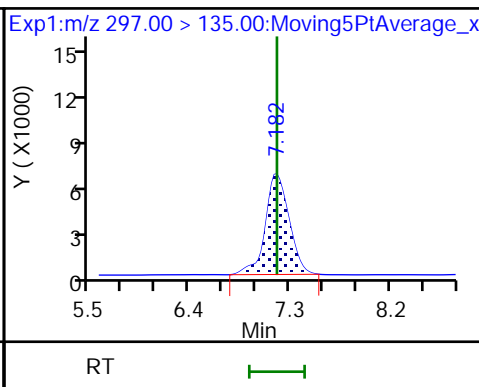
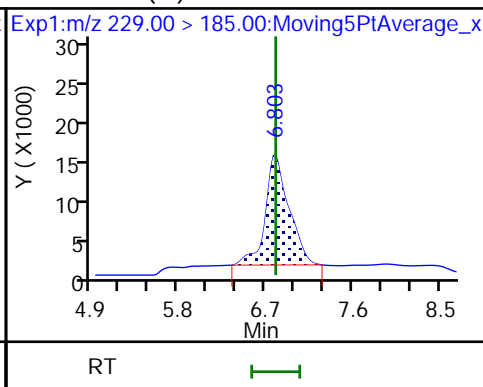
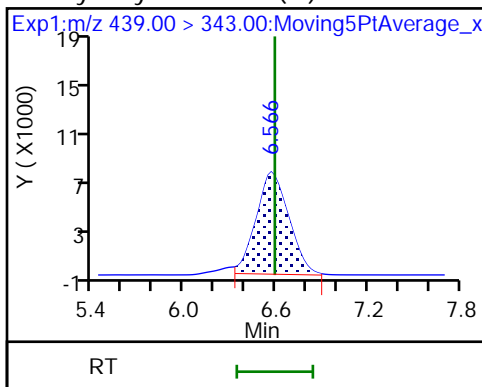
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA (M)

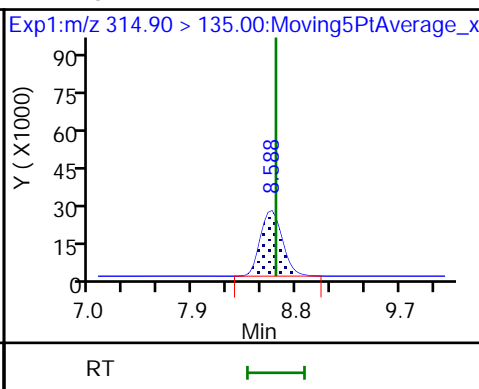
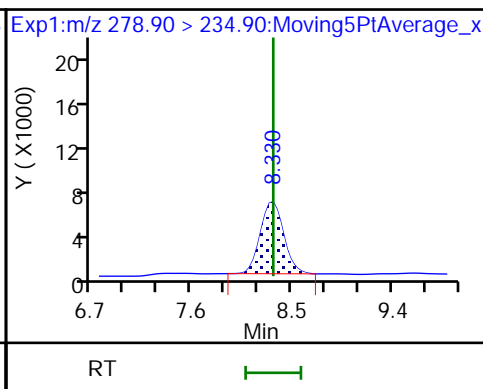
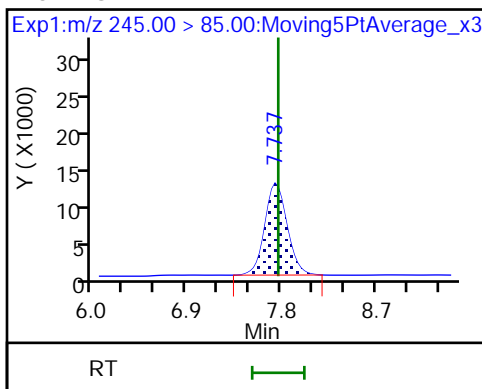
5 NVHOS



6 PFO2HxA

22 PEPA

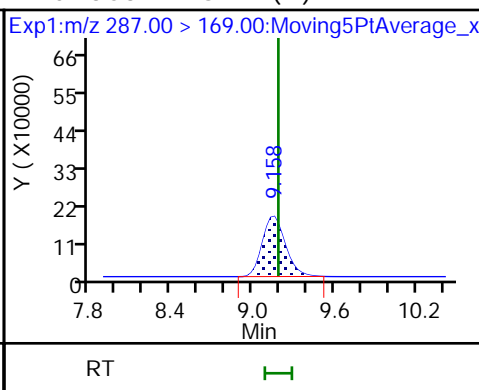
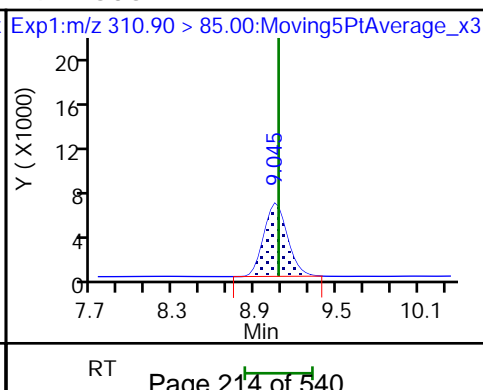
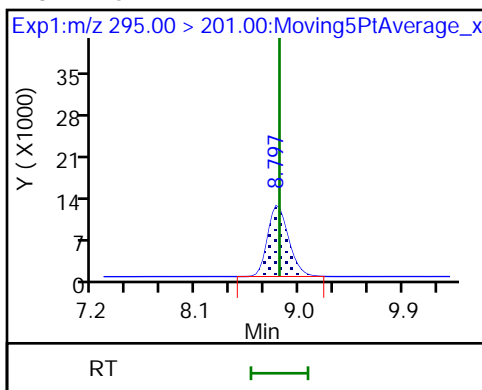
7 PES

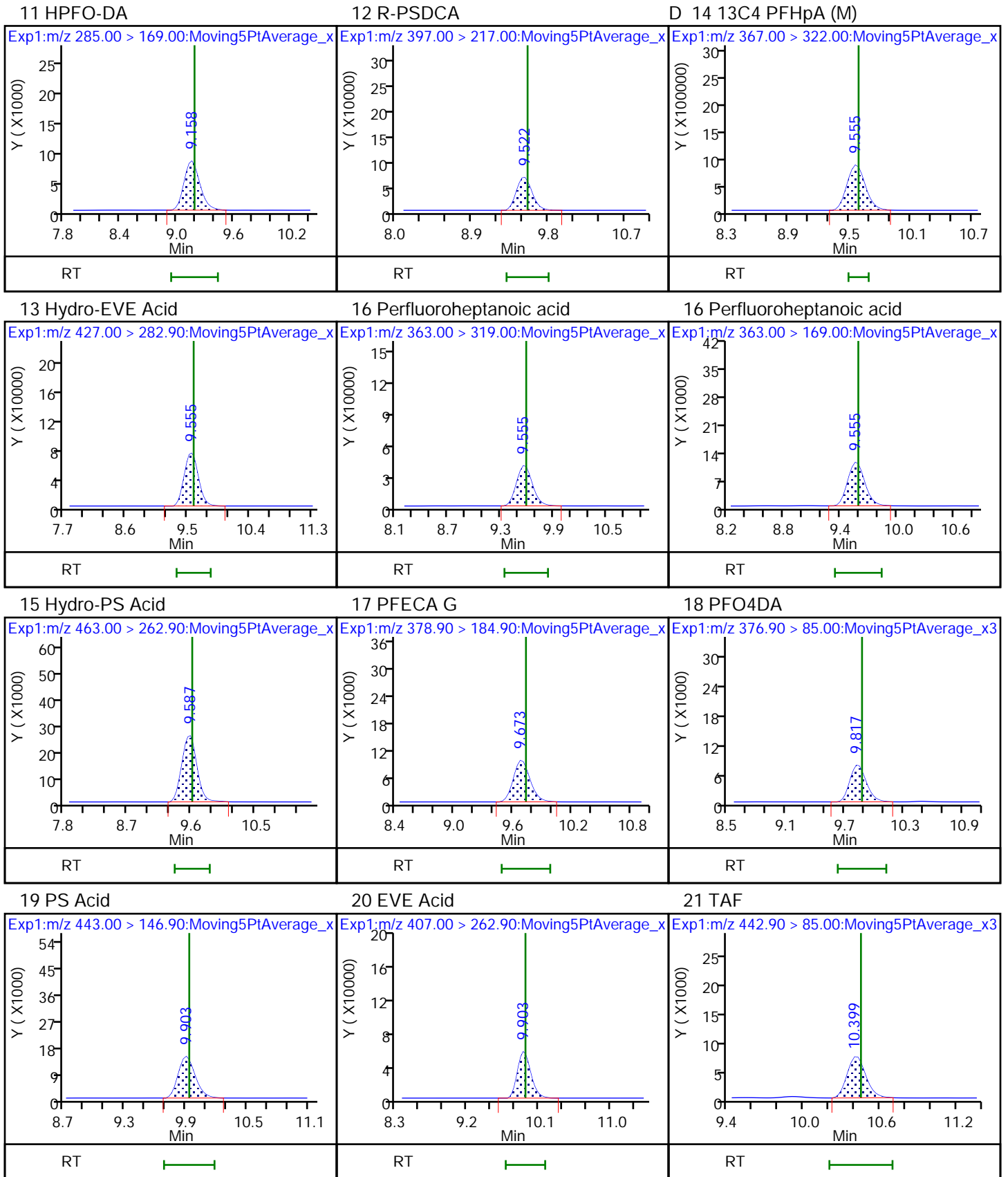


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA (M)









Eurofins TestAmerica, Sacramento

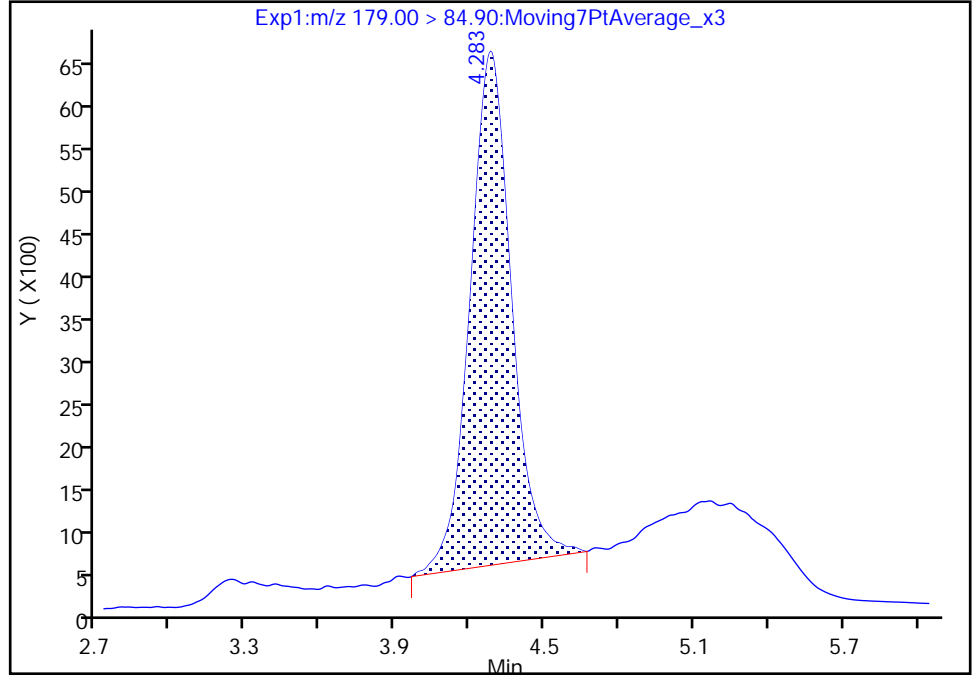
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Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

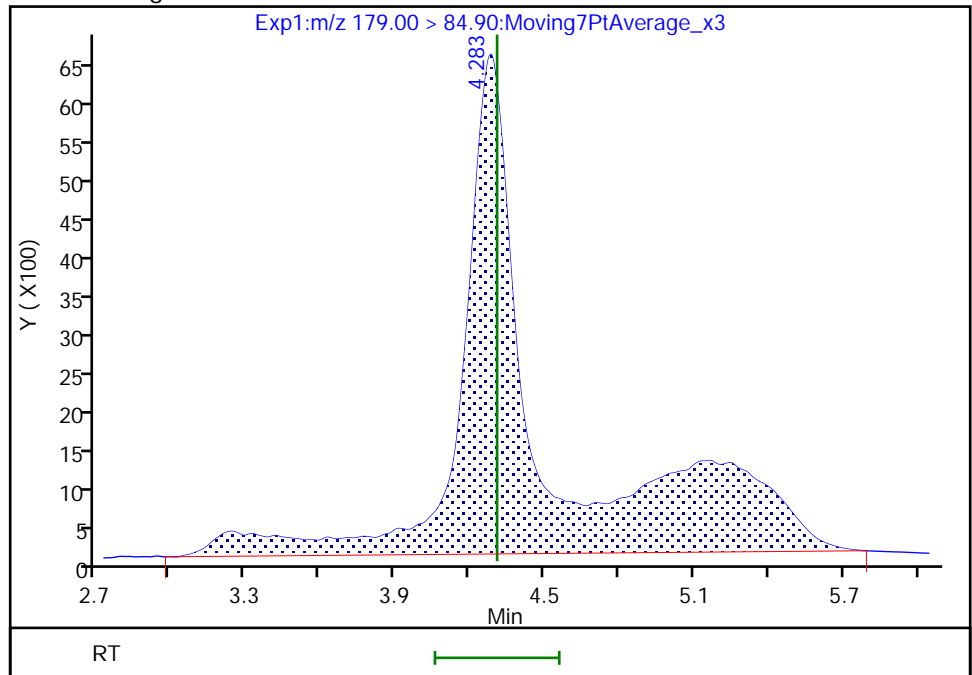
RT: 4.28  
Area: 68681  
Amount: 0.006352  
Amount Units: ng/ml

Processing Integration Results



RT: 4.28  
Area: 148070  
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Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:53:34  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

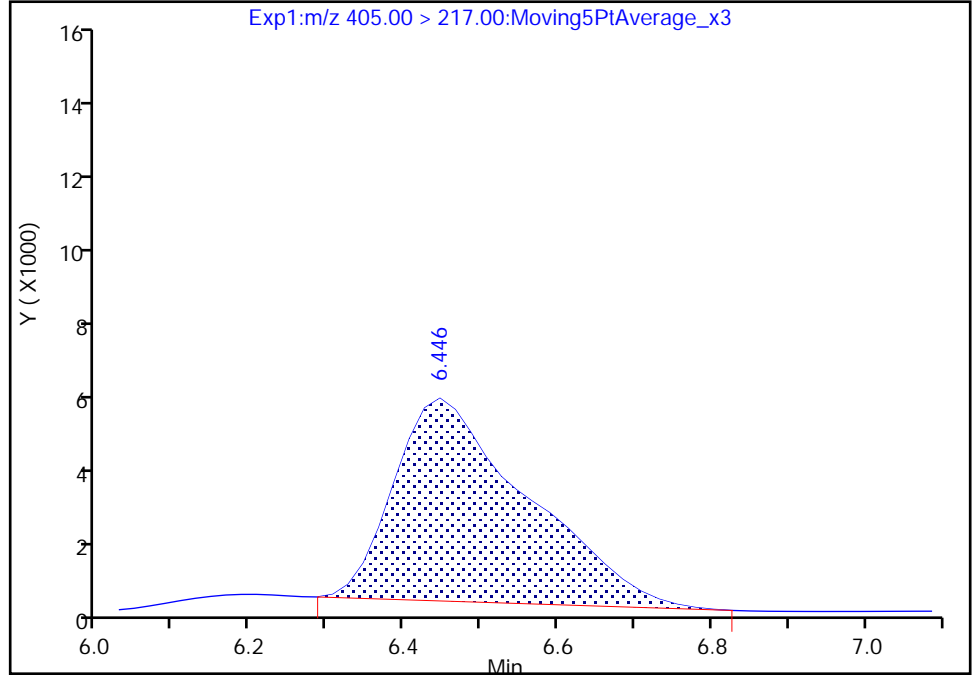
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Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

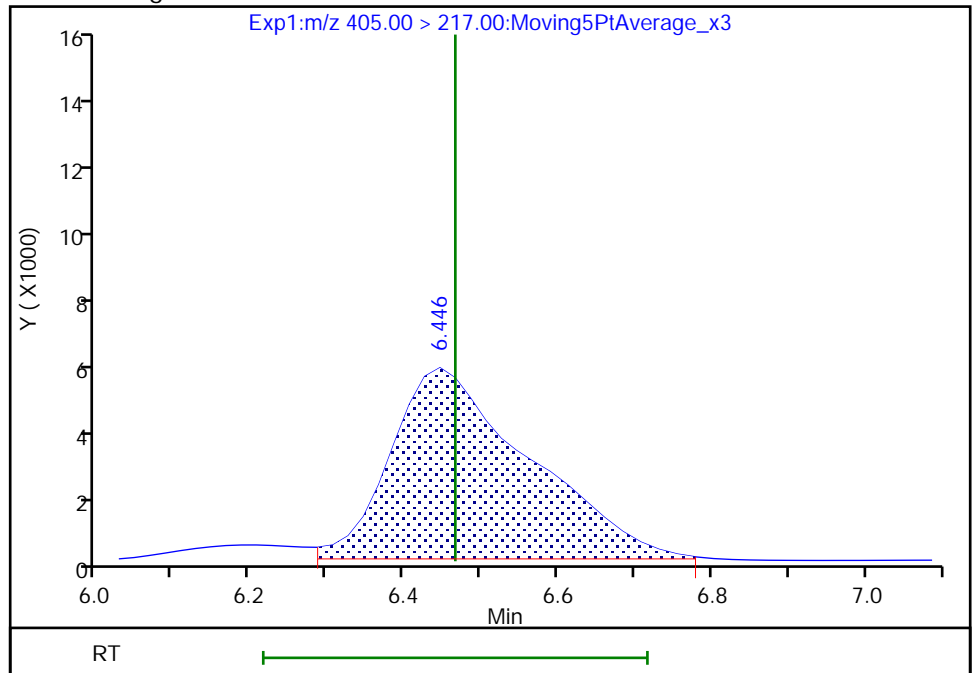
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Amount: 0.008268  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
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Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:51:35  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

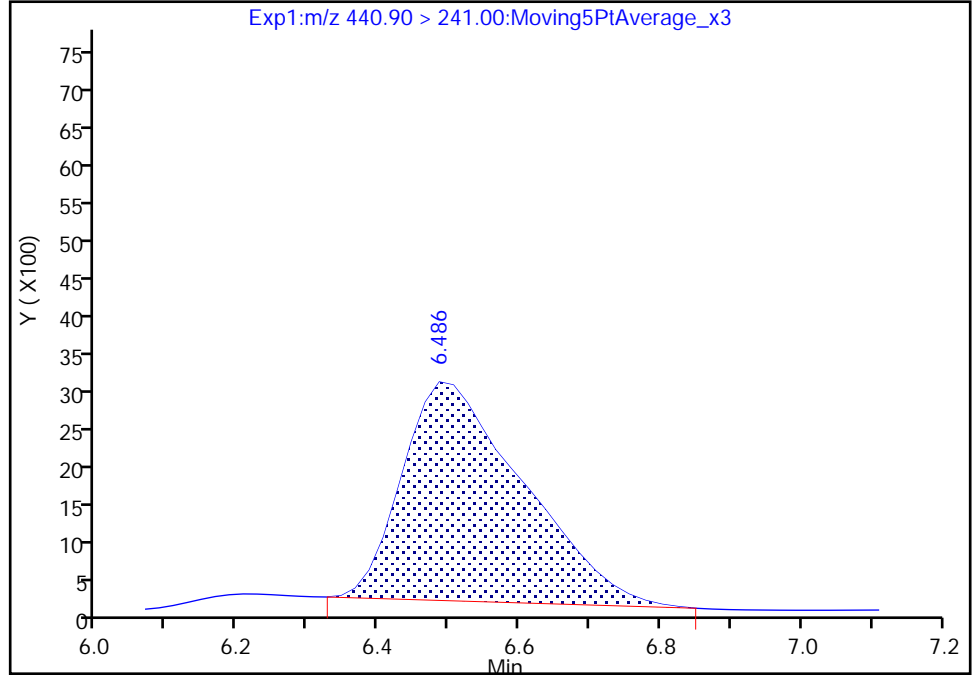
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Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

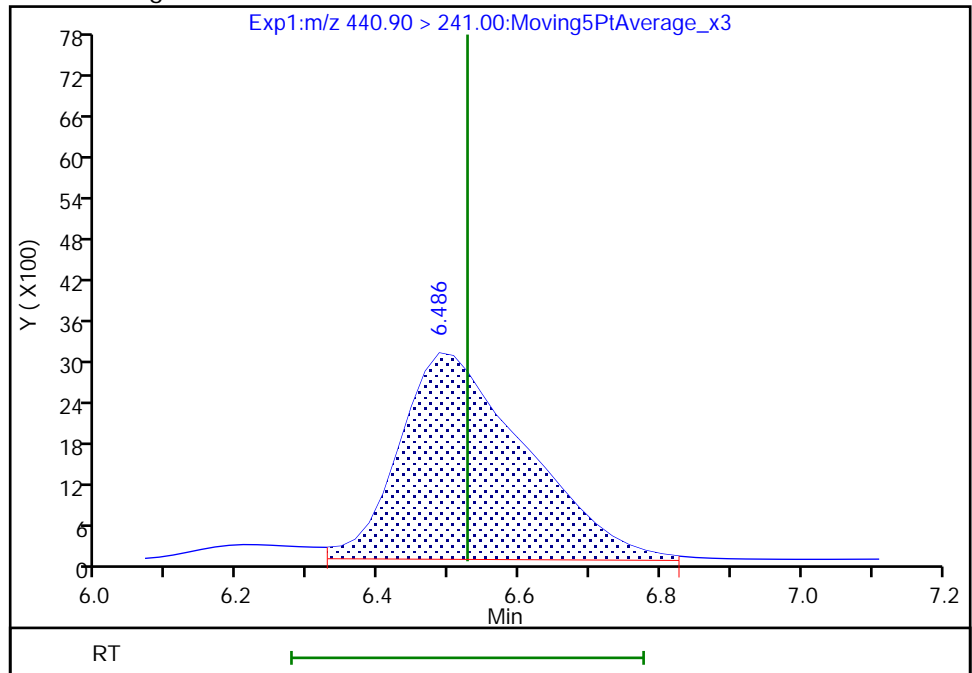
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Amount: 0.008256  
Amount Units: ng/ml

Processing Integration Results



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Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:51:40  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

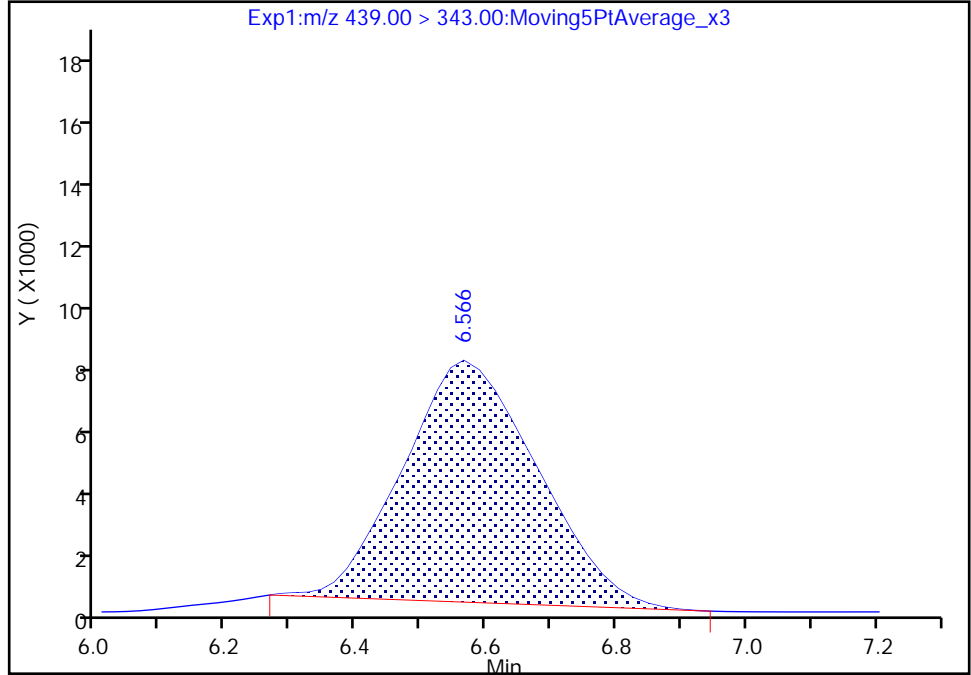
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Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

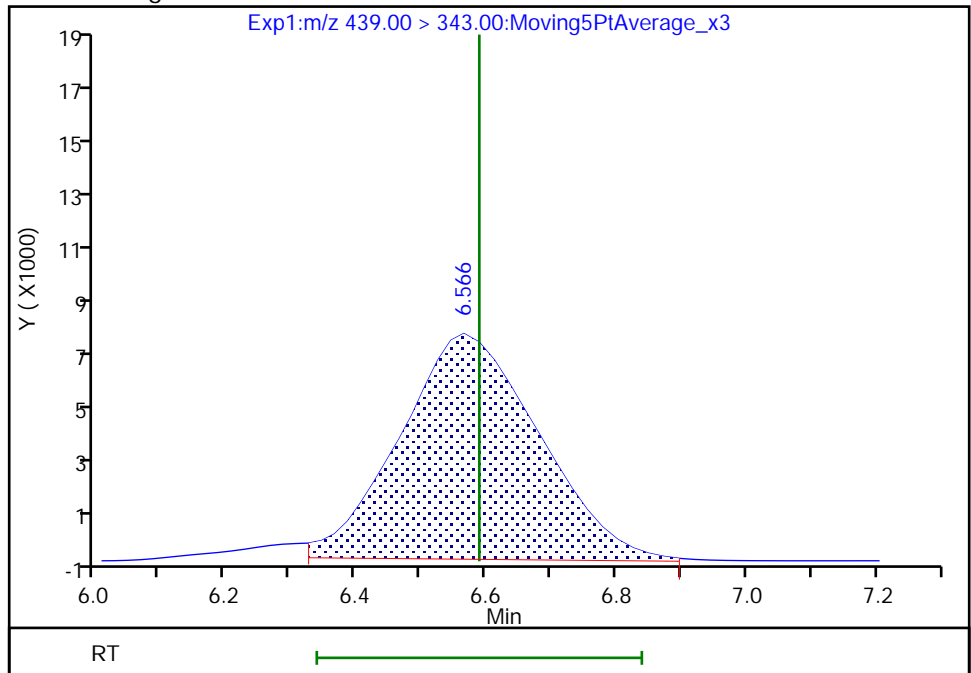
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Amount: 0.008205  
Amount Units: ng/ml

Processing Integration Results



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Amount: 0.008954  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

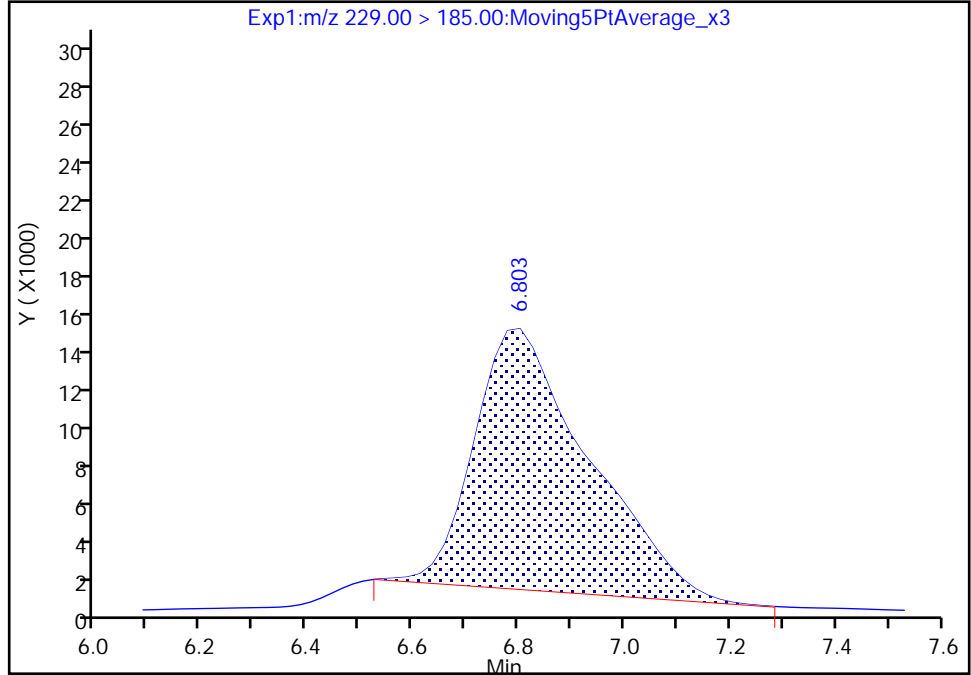
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Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

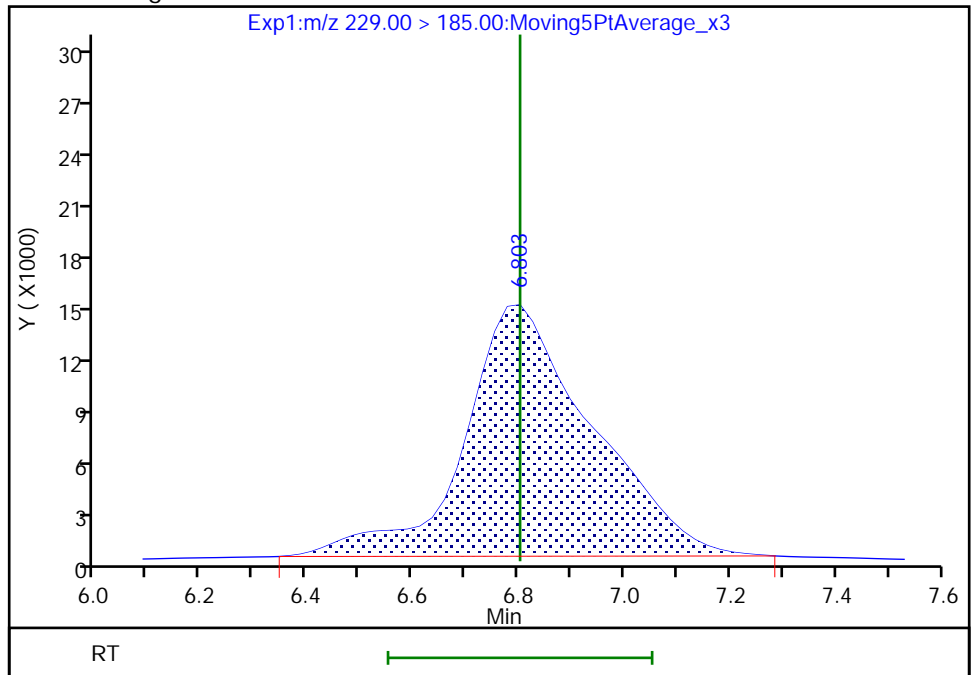
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Amount: 0.007808  
Amount Units: ng/ml

Processing Integration Results



RT: 6.80  
Area: 235047  
Amount: 0.009595  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:54:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

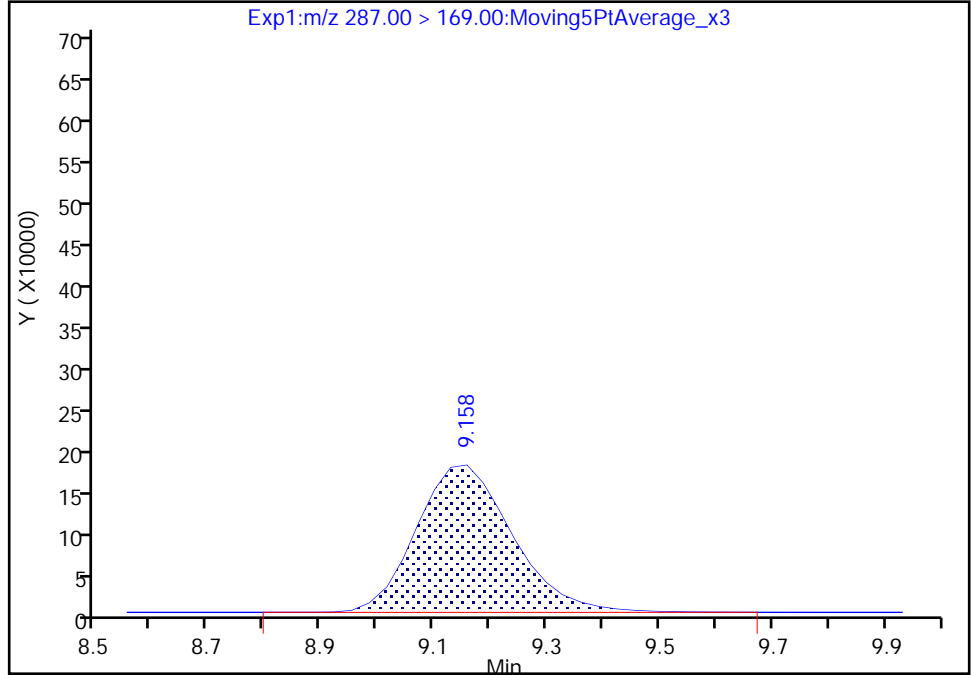
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_007.d  
Injection Date: 06-Feb-2021 13:34:44 Instrument ID: A12  
Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

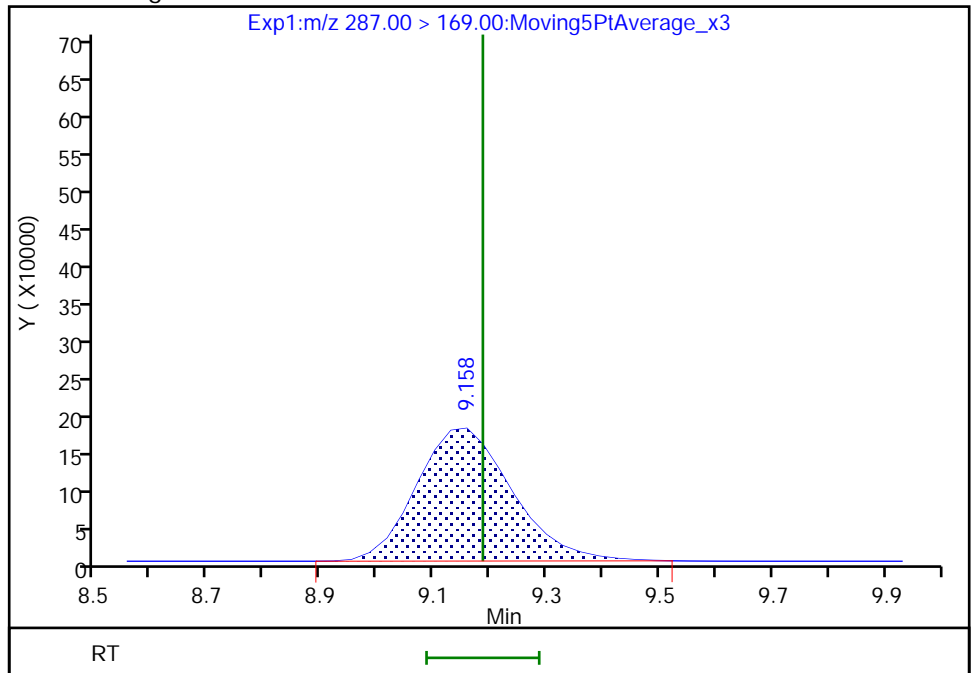
RT: 9.16  
Area: 2107758  
Amount: 0.249430  
Amount Units: ng/ml

Processing Integration Results



RT: 9.16  
Area: 2095869  
Amount: 0.249318  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:23  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

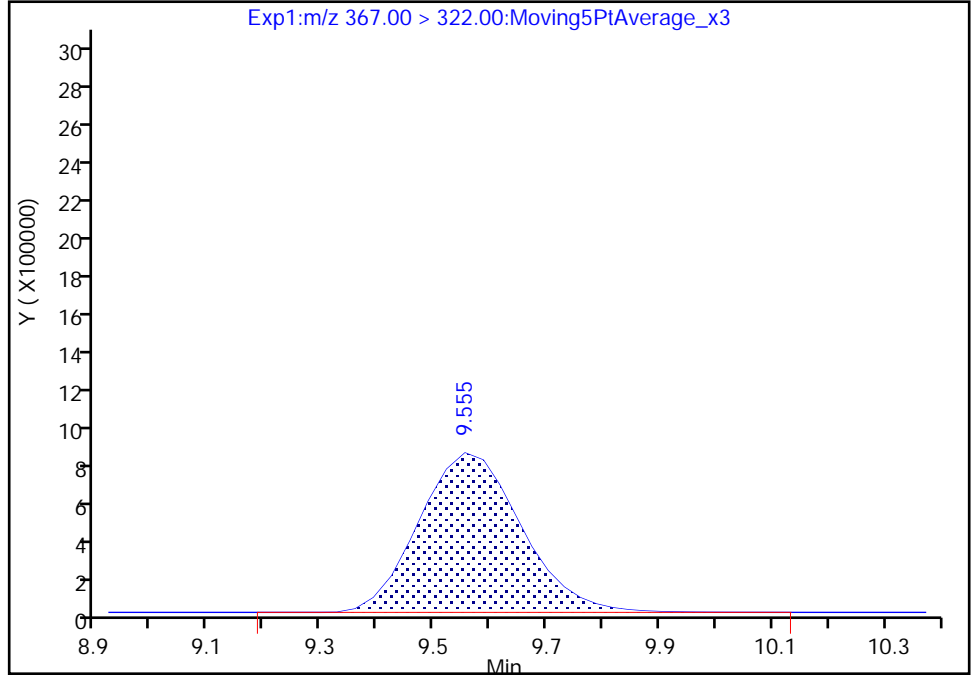
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Lims ID: IC STD 4 (44)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 14 13C4 PFHpA, CAS: STL01892**

Signal: 1

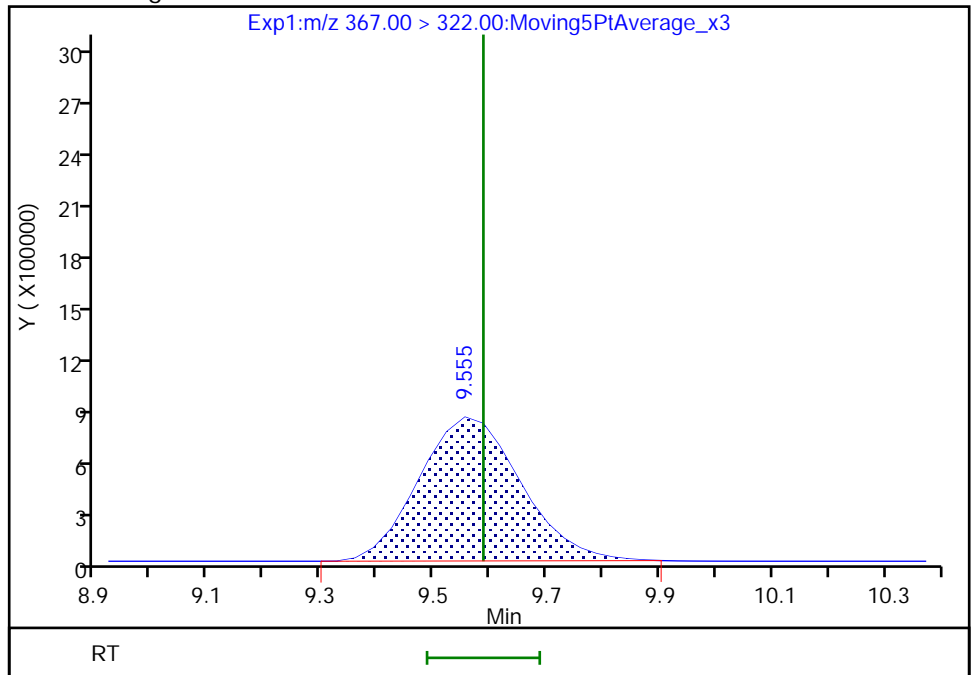
RT: 9.55  
Area: 10501995  
Amount: 0.249211  
Amount Units: ng/ml

Processing Integration Results



RT: 9.55  
Area: 10423751  
Amount: 0.240518  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:26  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_008.d  
 Lims ID: IC STD 5 (54)  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 06-Feb-2021 13:52:23 ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (54)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:35 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 11:55:33

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.271	4.309	-0.038		378289	0.0242		96.8	76.4	M
2 R-EVE										M
405.00 > 217.00	6.427	6.466	-0.039		176396	0.0237		94.7	1093	M
3 R-PSDA										M
440.90 > 241.00	6.486	6.526	-0.040		90748	0.0226		90.6	793	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.546	6.590	-0.044		308734	0.0236		94.5	1615	M
23 PMPA										
229.00 > 185.00	6.779	6.803	-0.024		590110	0.0241		96.4	408	
5 NVHOS										
297.00 > 135.00	7.158	7.182	-0.024		228164	0.0241		96.6	3870	
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		459372	0.0248		99.3	2581	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		232622	0.0248		99.1	883	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		927598	0.0256		102	23294	
8 PFECA B										
295.00 > 201.00	8.798	8.827	-0.029		383788	0.0258		103	7618	
9 PFO3OA										
310.90 > 85.00	9.047	9.074	-0.027		177721	0.0240		95.9	3643	
11 HPFO-DA										
285.00 > 169.00	9.131	9.187	-0.056	1.000	244209	0.0242		96.8	5184	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.131	9.187	-0.056		2206754	0.2625		105	47404	M



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.491	9.555	-0.064		1929410	0.0247		98.8	37558	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.556	9.587	-0.031		10455368	0.2412		96.5	118764	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.524	9.587	-0.063		2500279	0.0251		100	35051	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.556	9.587	-0.031	1.000	1180894	0.0244	Target=0.00	97.6	5207	
363.00 > 169.00	9.556	9.587	-0.031	1.000	353724		3.34(0.00-0.00)	97.6	5606	
15 Hydro-PS Acid										
463.00 > 262.90	9.556	9.616	-0.060		913959	0.0254		102	20534	
17 PFECA G										
378.90 > 184.90	9.675	9.731	-0.056		294960	0.0273		109	8324	
18 PFO4DA										
376.90 > 85.00	9.818	9.874	-0.056		242773	0.0262		105	4182	
19 PS Acid										
443.00 > 146.90	9.876	9.932	-0.056		423677	0.0268		107	8981	
20 EVE Acid										
407.00 > 262.90	9.904	9.932	-0.028		1727051	0.0261		104	36896	
21 TAF										
442.90 > 85.00	10.401	10.449	-0.048		178858	0.0238		95.4	1038	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00054

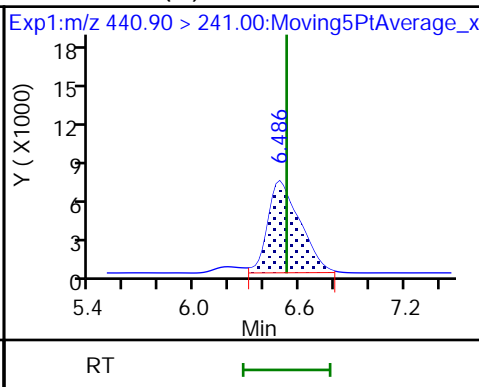
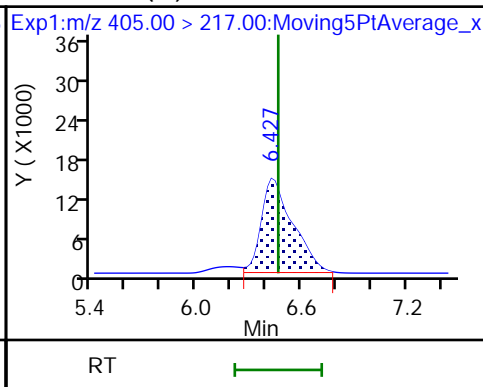
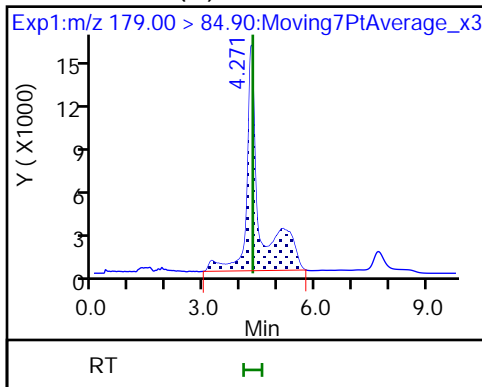
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

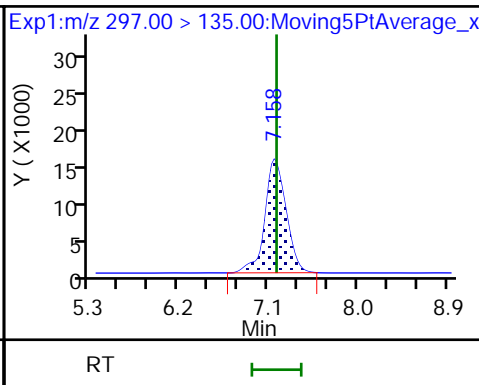
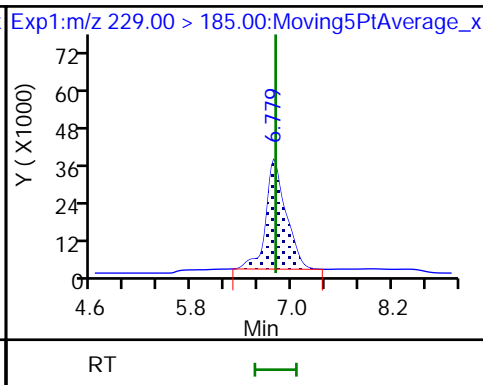
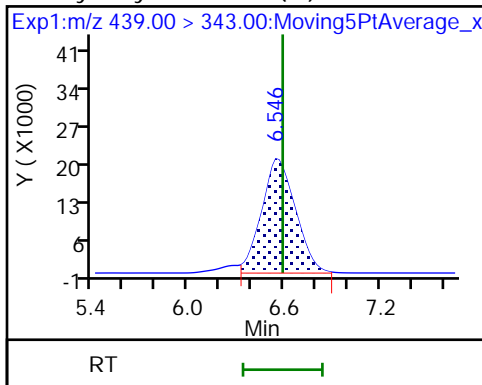
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA

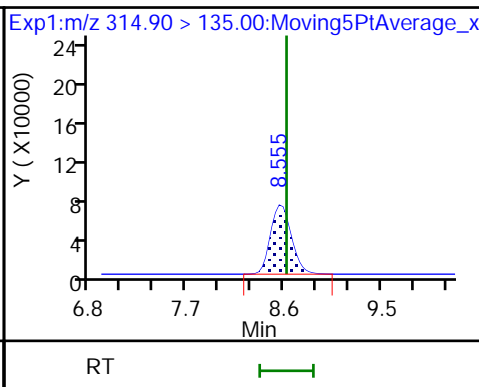
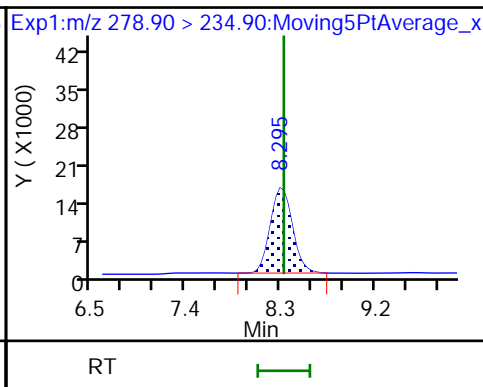
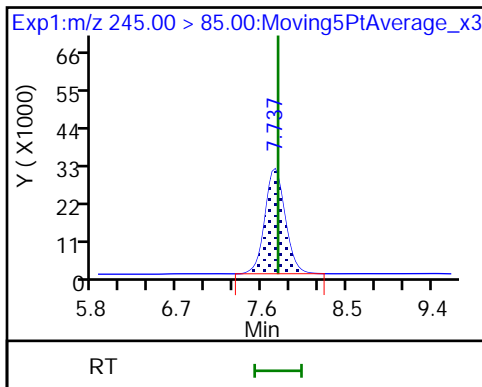
5 NVHOS



6 PFO2HxA

22 PEPA

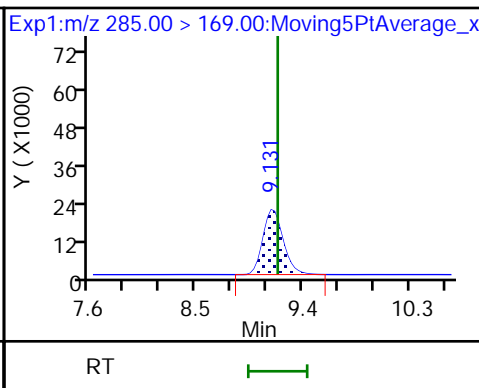
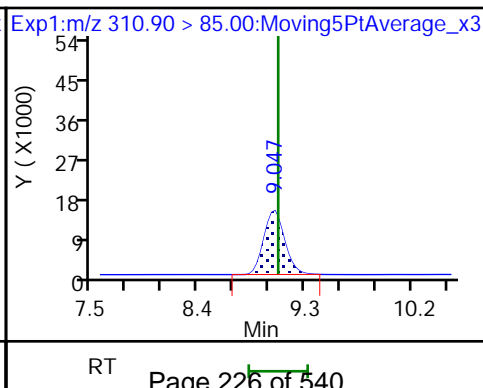
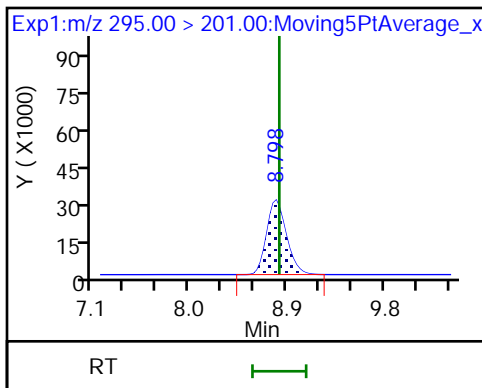
7 PES



8 PFECA B

9 PFO3OA

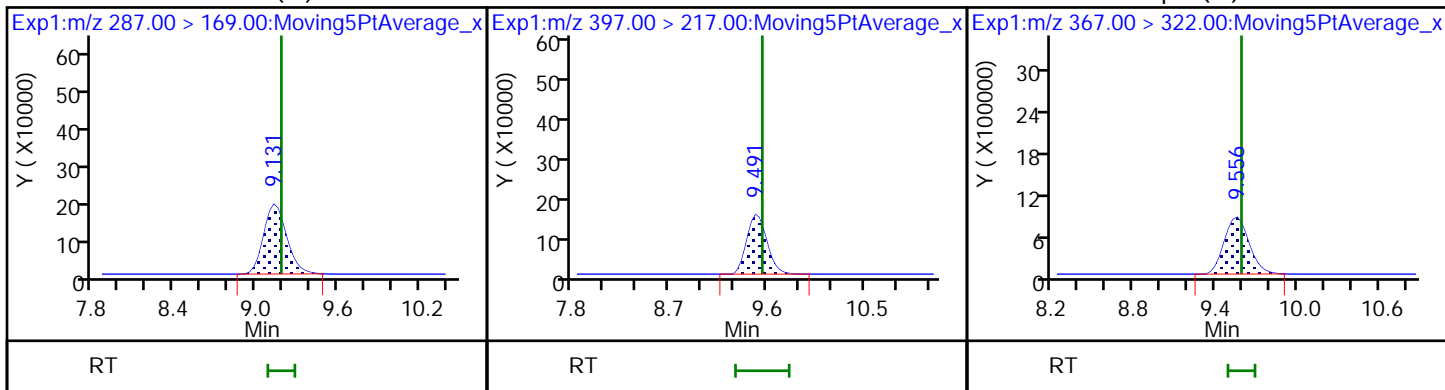
11 HPFO-DA



D 10 13C3 HFPO-DA (M)

12 R-PSDCA

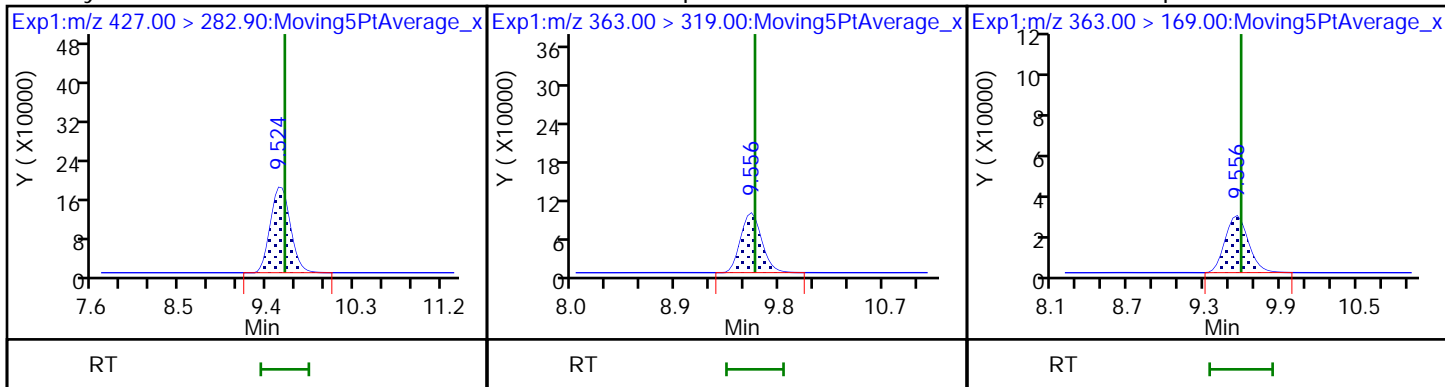
D 14 13C4 PFHpA (M)



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

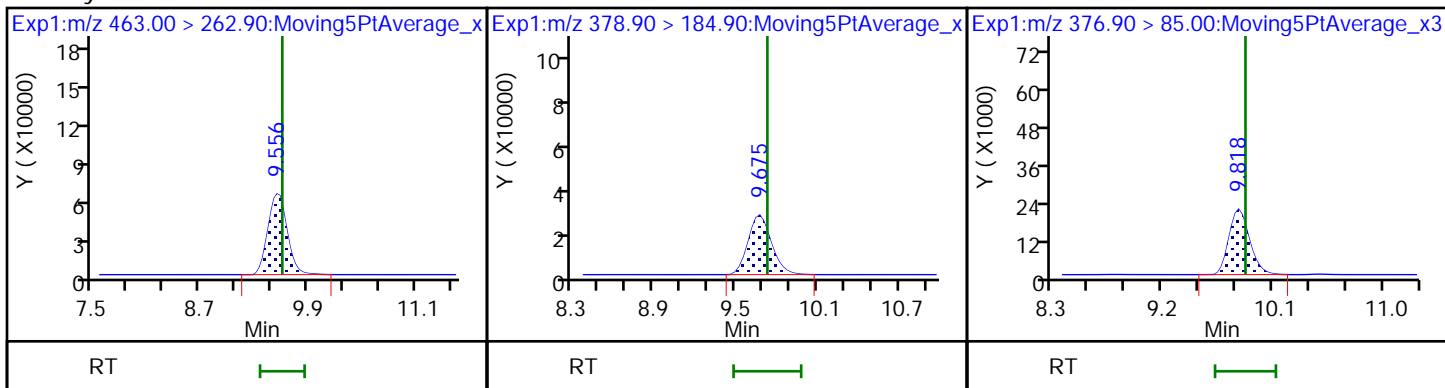
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

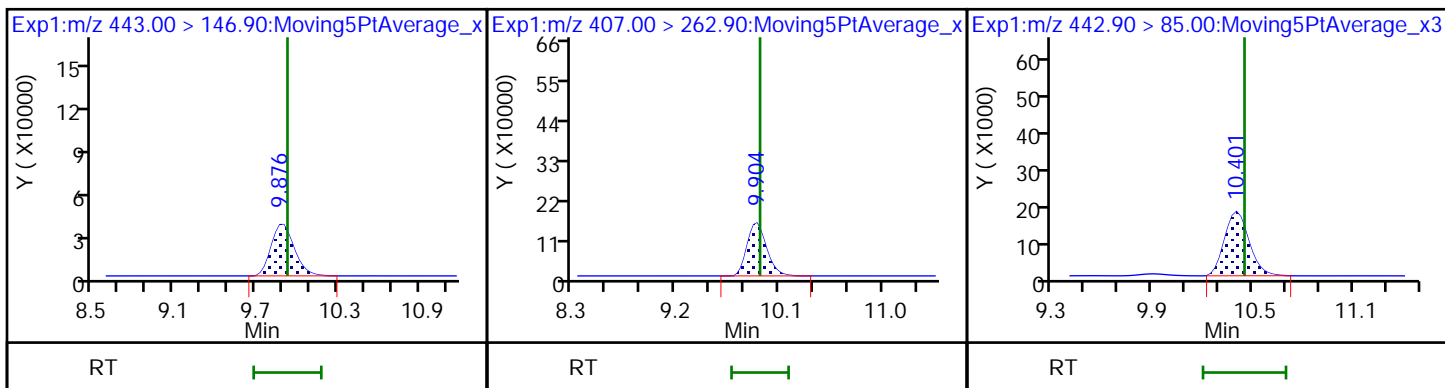
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Euofins TestAmerica, Sacramento

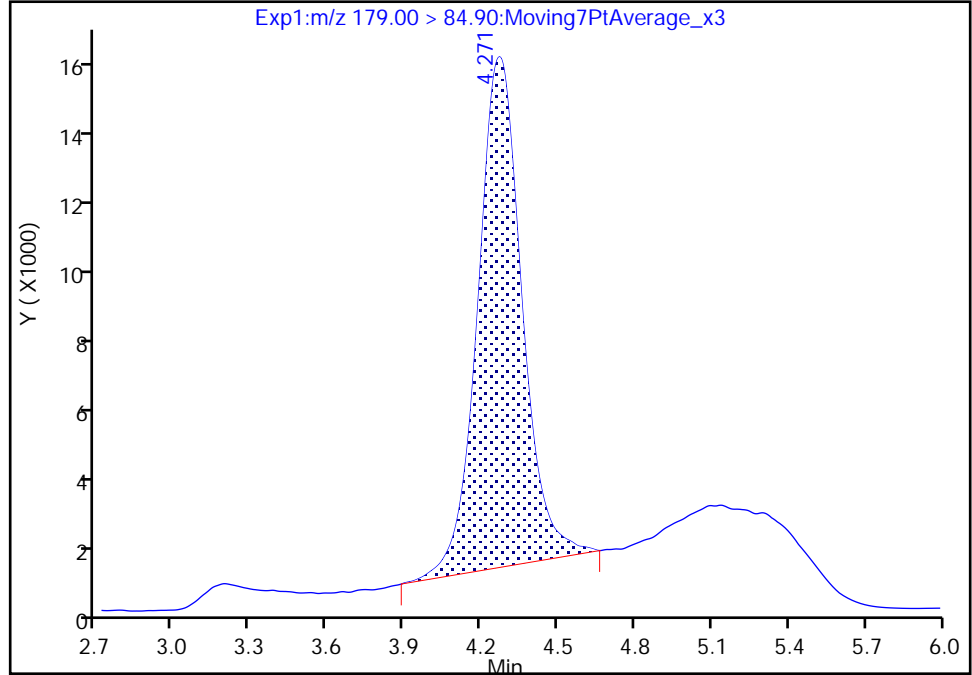
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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

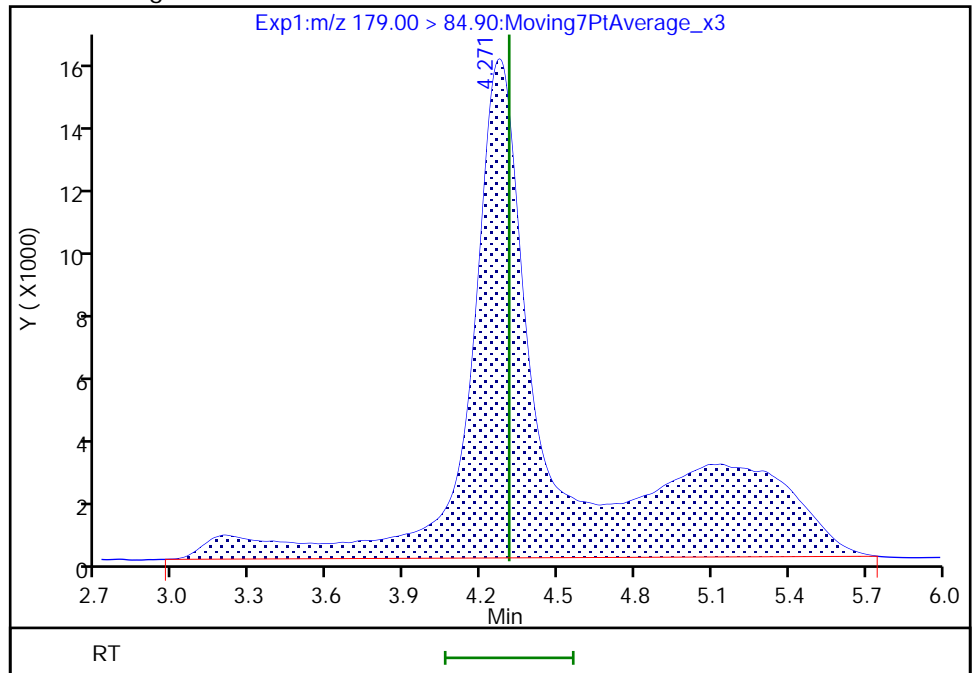
RT: 4.27  
Area: 174480  
Amount: 0.015033  
Amount Units: ng/ml

Processing Integration Results



RT: 4.27  
Area: 378289  
Amount: 0.024199  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:55:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

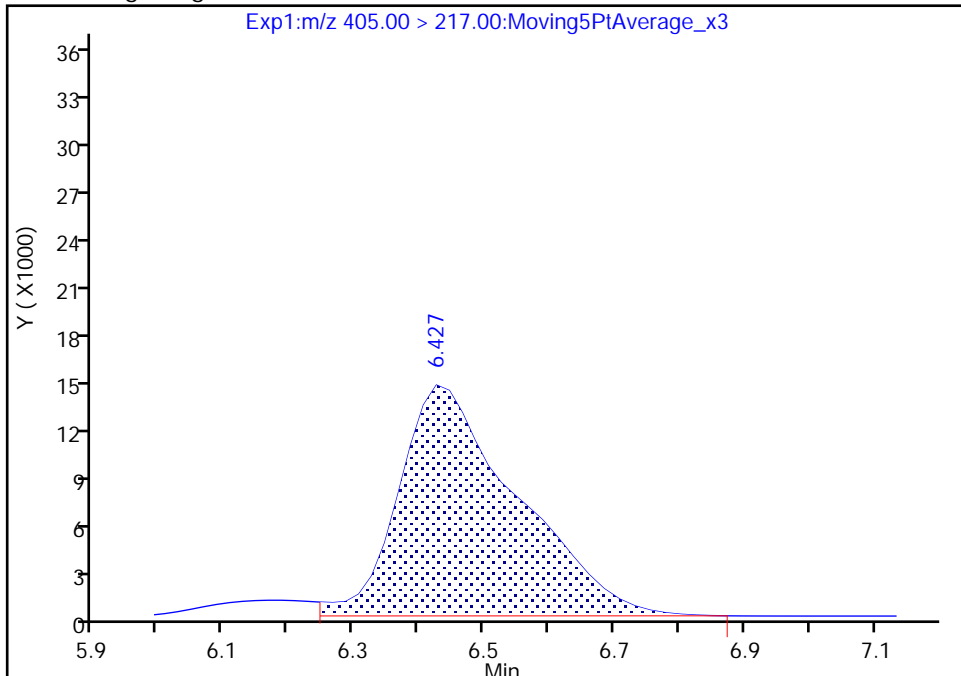
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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

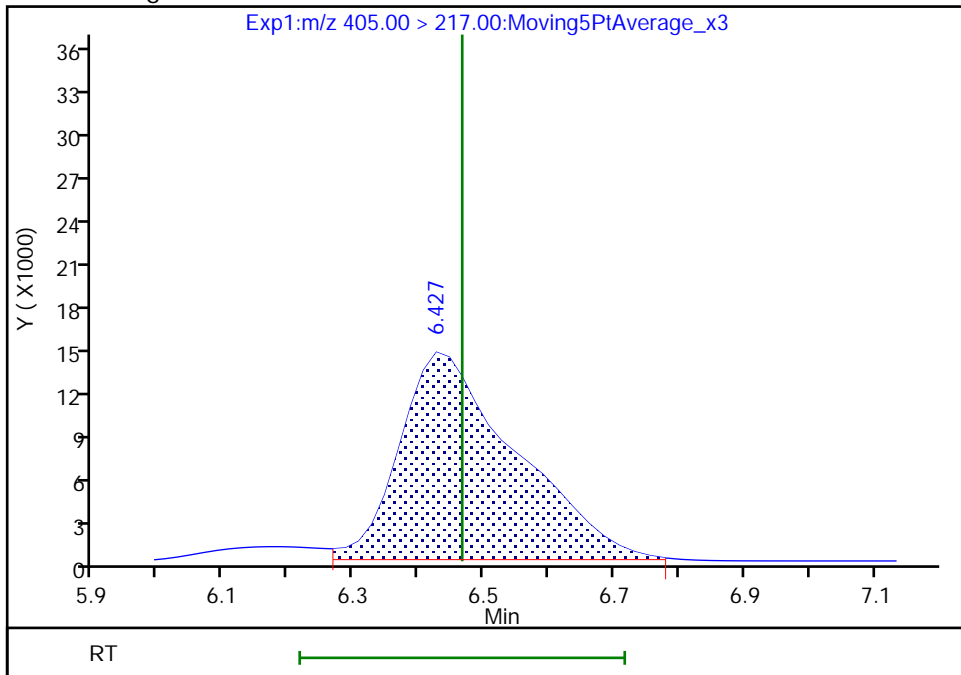
RT: 6.43  
Area: 180212  
Amount: 0.022895  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 176396  
Amount: 0.023682  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:52:03  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

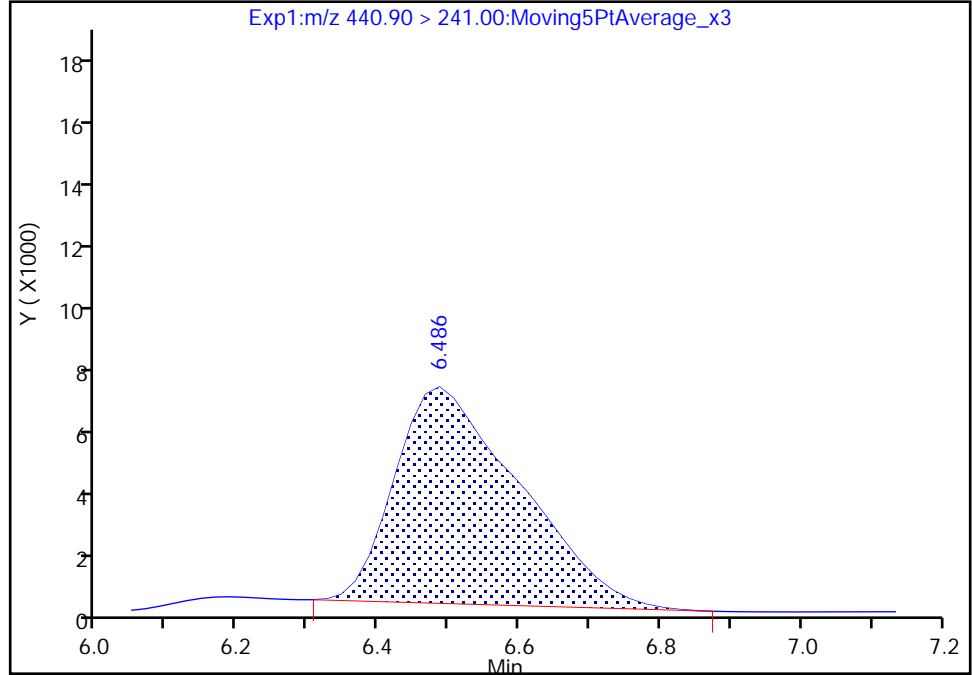
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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

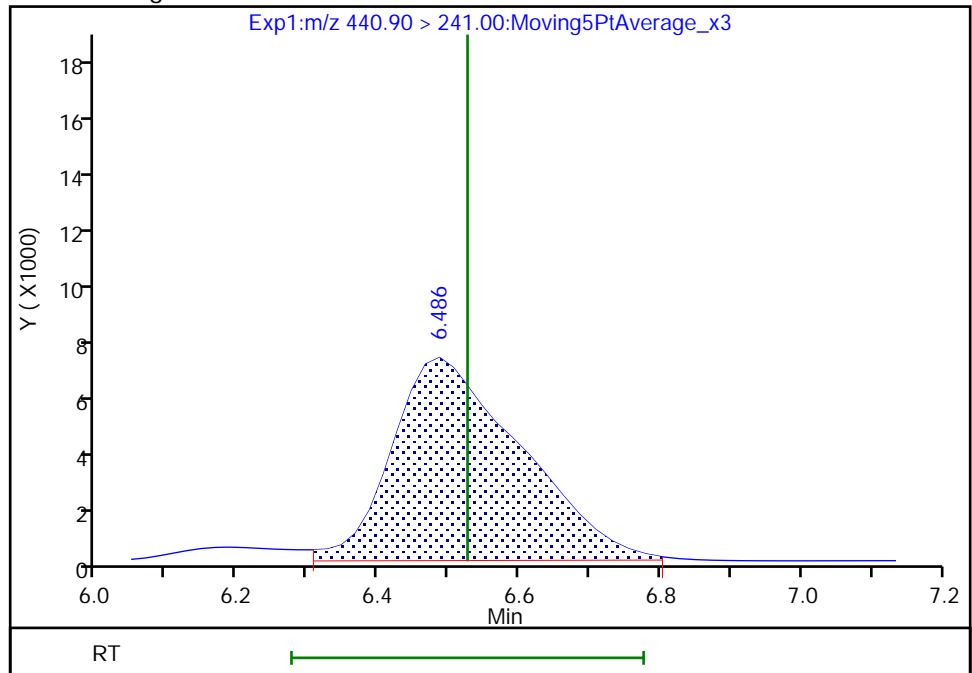
RT: 6.49  
Area: 84436  
Amount: 0.019888  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
Area: 90748  
Amount: 0.022645  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:52:07  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

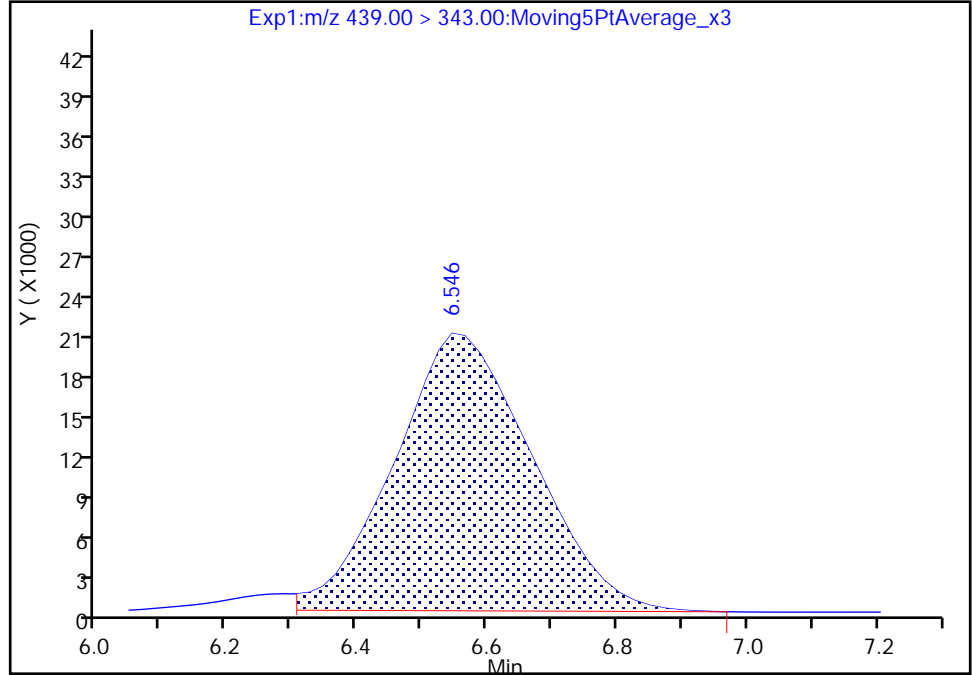
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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

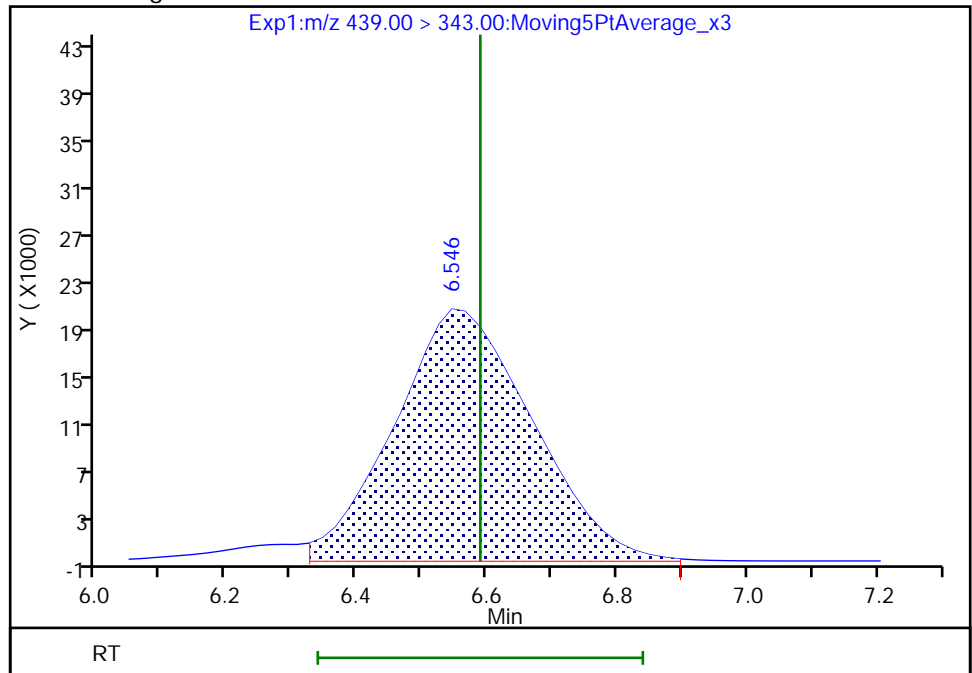
RT: 6.55  
Area: 306545  
Amount: 0.022746  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 308734  
Amount: 0.023618  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:52:12  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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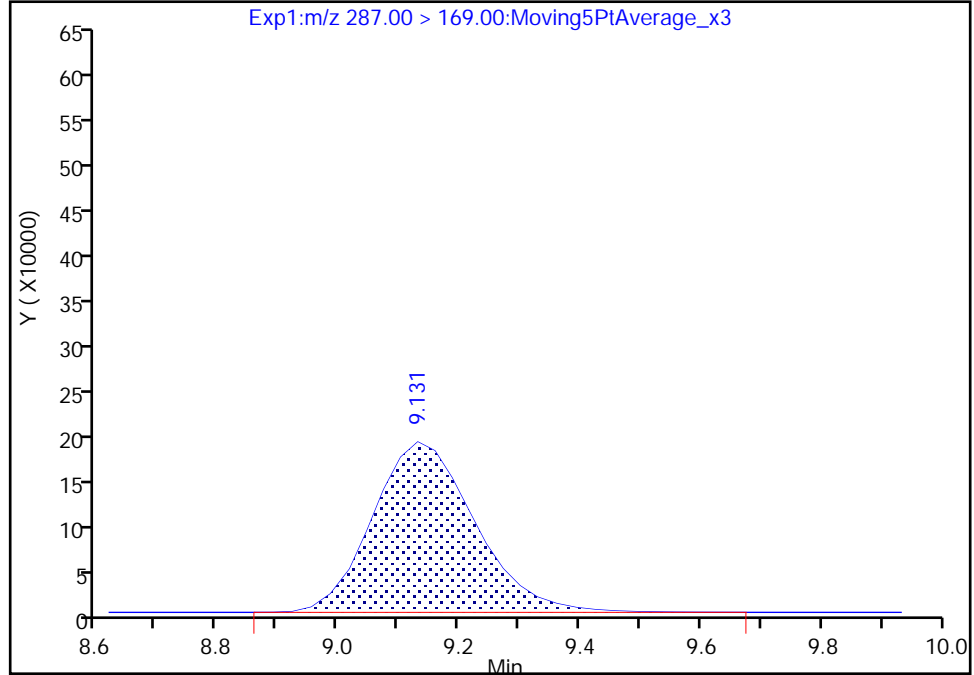
Eurofins TestAmerica, Sacramento

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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

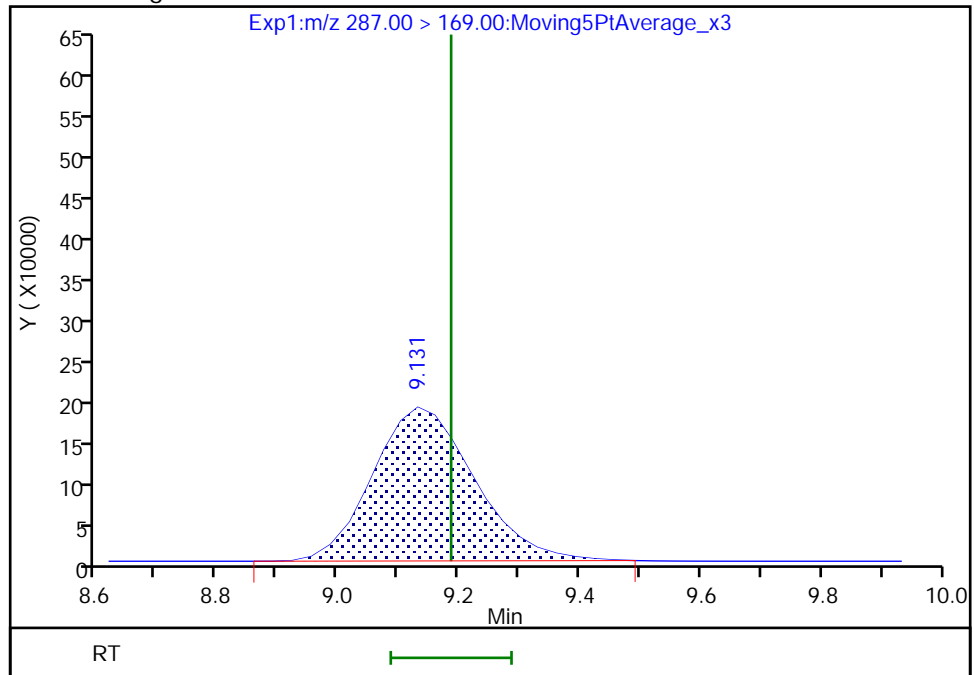
RT: 9.13  
Area: 2224405  
Amount: 0.263382  
Amount Units: ng/ml

Processing Integration Results



RT: 9.13  
Area: 2206754  
Amount: 0.262508  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:40  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

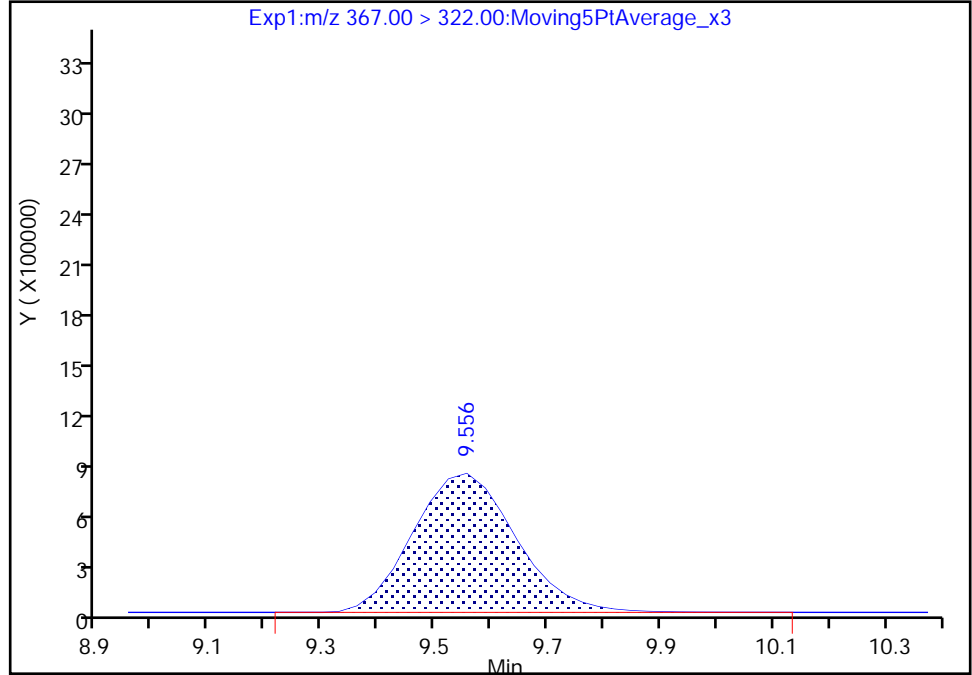
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Injection Date: 06-Feb-2021 13:52:23 Instrument ID: A12  
Lims ID: IC STD 5 (54)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 14 13C4 PFHpA, CAS: STL01892**

Signal: 1

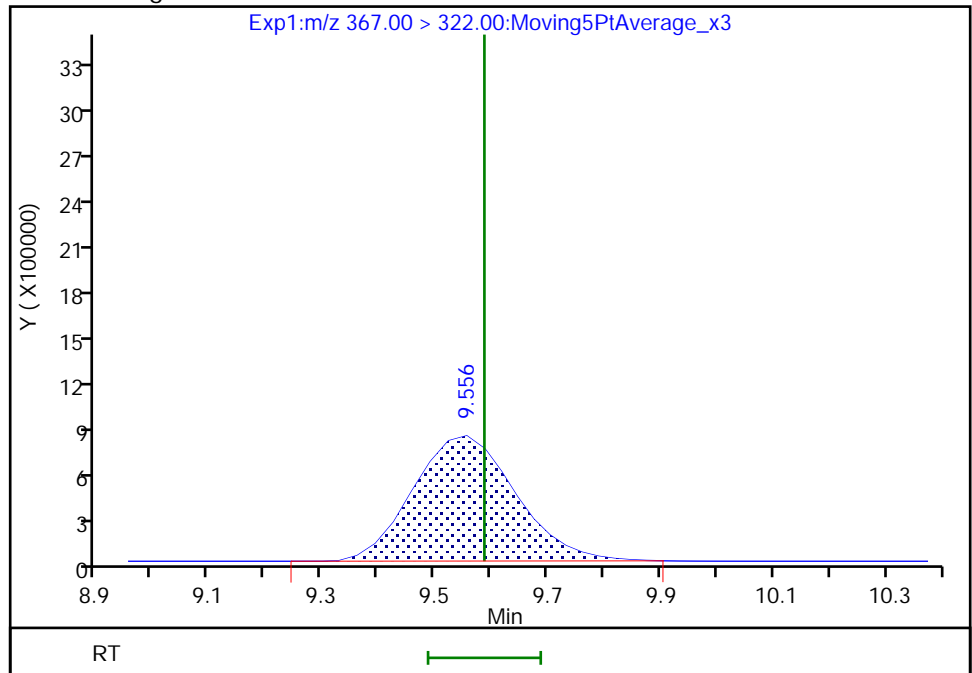
RT: 9.56  
Area: 10518084  
Amount: 0.249778  
Amount Units: ng/ml

Processing Integration Results



RT: 9.56  
Area: 10455368  
Amount: 0.241248  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:37  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_009.d  
 Lims ID: IC STD 6 (75)  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 06-Feb-2021 14:09:57 ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (75)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:37 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 11:55:58

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.309	4.309	0.0		849213	0.0543		109	226	M
2 R-EVE										
405.00 > 217.00	6.427	6.466	-0.039		428175	0.0575		115	6419	
3 R-PSDA										
440.90 > 241.00	6.486	6.526	-0.040		230432	0.0575		115	3576	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.590	-0.044		734658	0.0562		112	16407	
23 PMPA										
229.00 > 185.00	6.779	6.803	-0.024		1318979	0.0538		108	887	
5 NVHOS										
297.00 > 135.00	7.158	7.182	-0.024		529725	0.0561		112	9632	
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		1043462	0.0564		113	6223	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		529013	0.0563		113	1670	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		2015259	0.0556		111	50990	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		833815	0.0560		112	16982	
9 PFO3OA										
310.90 > 85.00	9.046	9.074	-0.028		436018	0.0588		118	9085	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.187	-0.057		2377026	0.2828		113	51348	M
11 HPFO-DA										
285.00 > 169.00	9.130	9.187	-0.057	1.000	531345	0.0489		97.7	15000	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		4358582	0.0558		112	84678	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		13307315	0.3071		123	82355	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.587	-0.032		5815273	0.0584		117	68271	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	3119616	0.0506	Target=0.00	101	12460	
363.00 > 169.00	9.555	9.587	-0.032	1.000	882788		3.53(0.00-0.00)	101	14092	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		2060399	0.0573		115	46020	
17 PFECA G										
378.90 > 184.90	9.674	9.731	-0.057		620210	0.0575		115	17588	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		537970	0.0581		116	9250	
19 PS Acid										
443.00 > 146.90	9.903	9.932	-0.029		901351	0.0571		114	19288	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		4057266	0.0613		123	116235	
21 TAF										
442.90 > 85.00	10.400	10.449	-0.049		440378	0.0587		117	1894	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00075

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_009.d

Injection Date: 06-Feb-2021 14:09:57

Instrument ID: A12

Lims ID: IC STD 6 (75)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 9

Worklist Smp#: 7

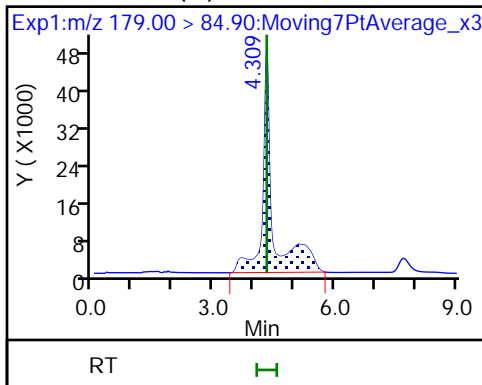
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

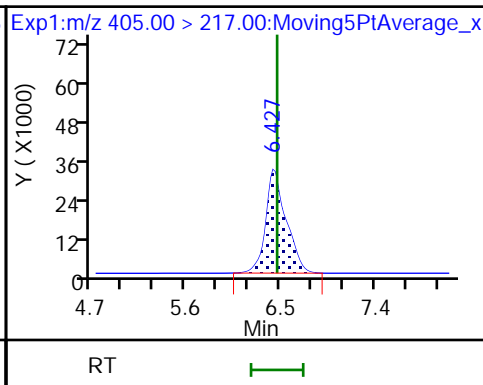
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

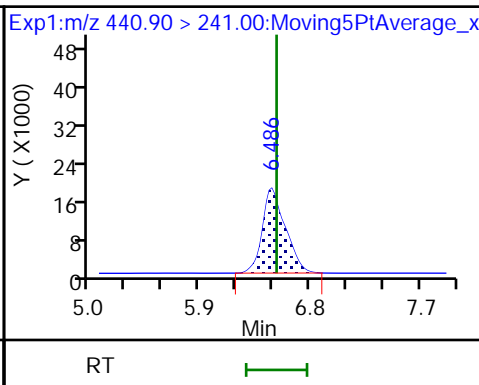
1 PFMOAA (M)



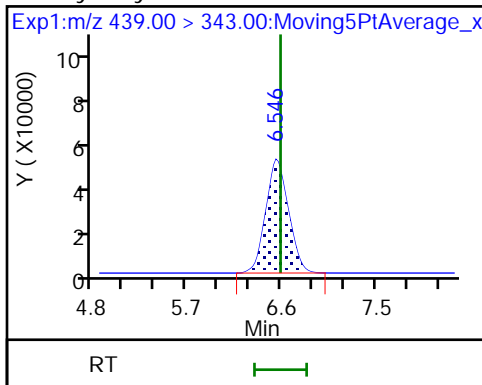
2 R-EVE



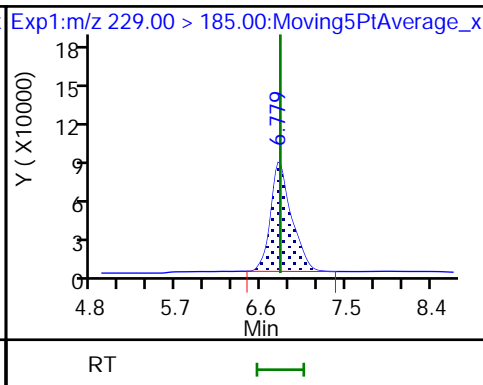
3 R-PSDA



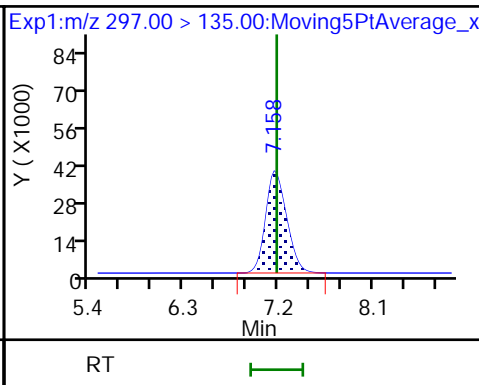
4 Hydrolyzed PSDA



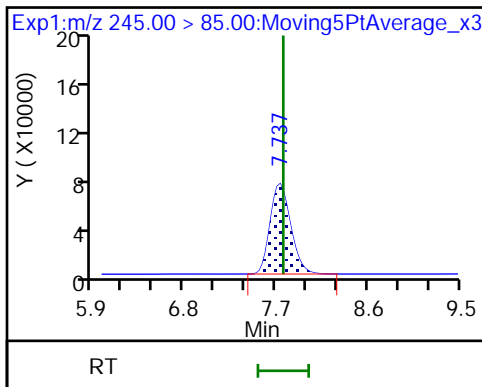
23 PMPA



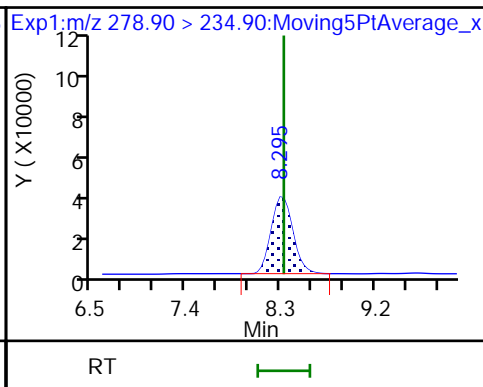
5 NVHOS



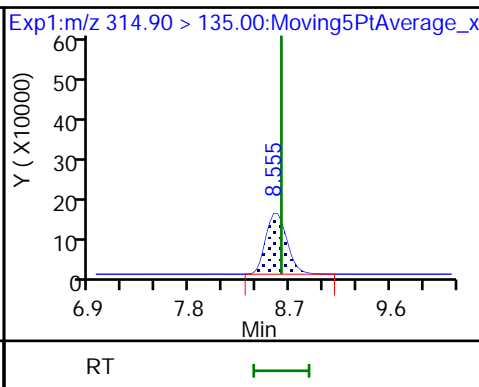
6 PFO2HxA



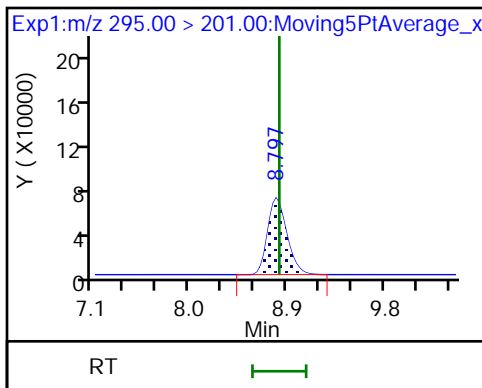
22 PEPA



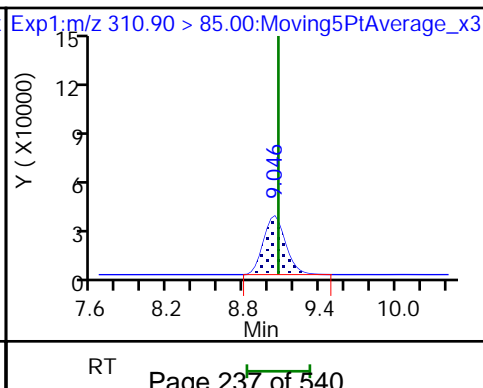
7 PES



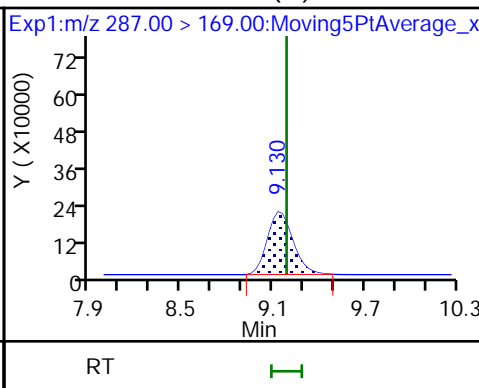
8 PFECA B

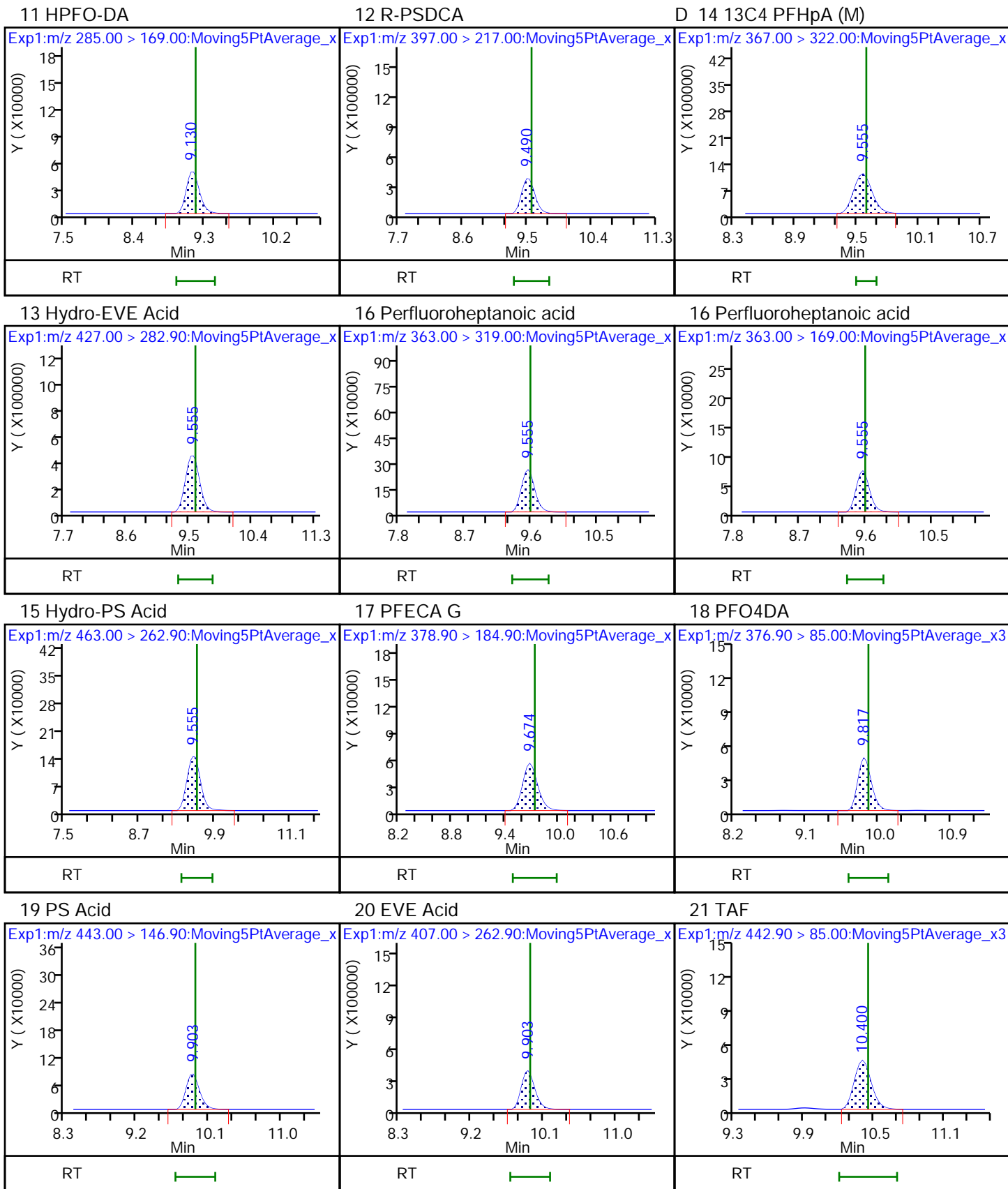


9 PFO3OA



D 10 13C3 HFPO-DA (M)







Eurofins TestAmerica, Sacramento

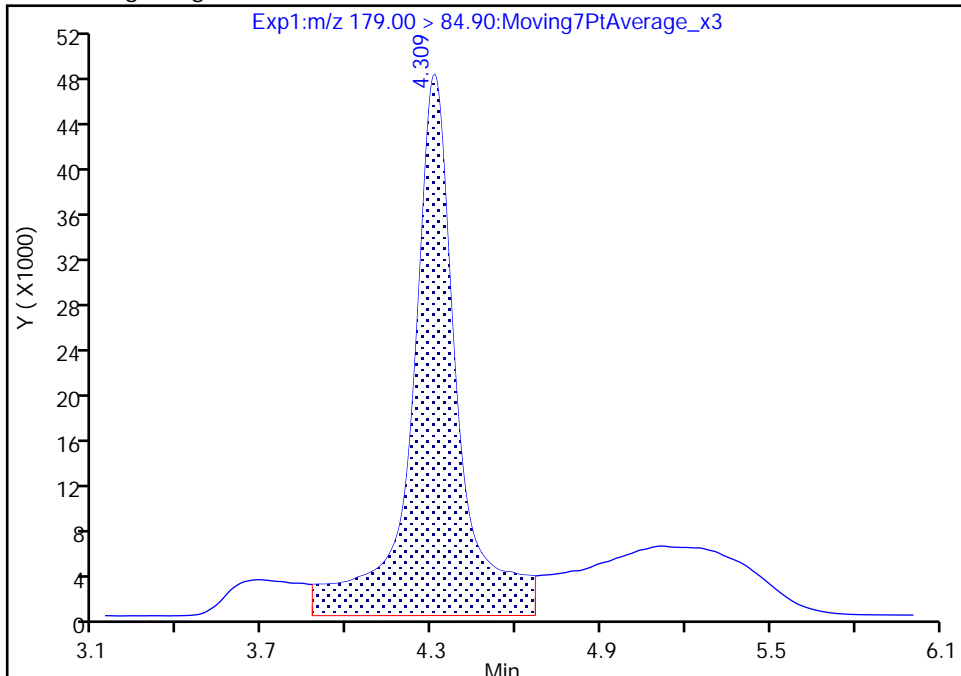
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Injection Date: 06-Feb-2021 14:09:57 Instrument ID: A12  
Lims ID: IC STD 6 (75)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

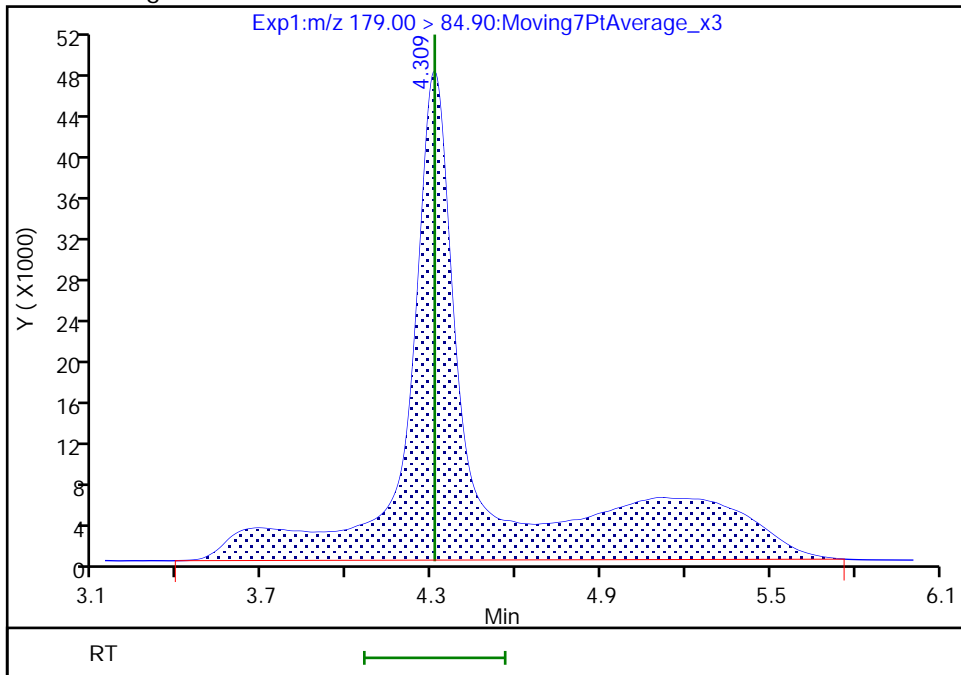
RT: 4.31  
Area: 540173  
Amount: 0.043487  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 849213  
Amount: 0.054325  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:55:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 240 of 540



Eurofins TestAmerica, Sacramento

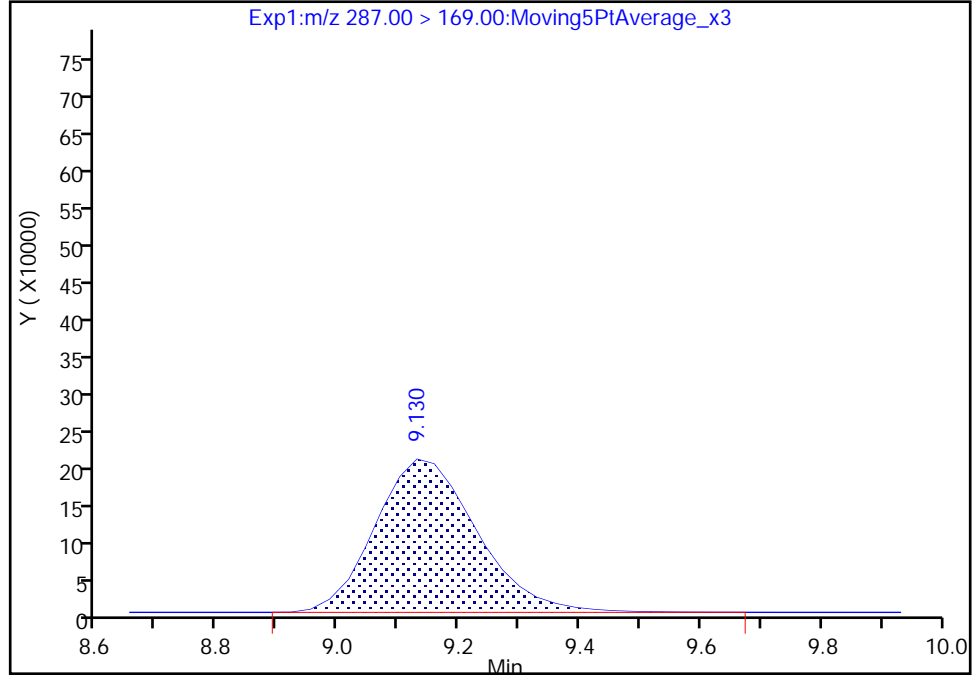
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Injection Date: 06-Feb-2021 14:09:57 Instrument ID: A12  
Lims ID: IC STD 6 (75)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

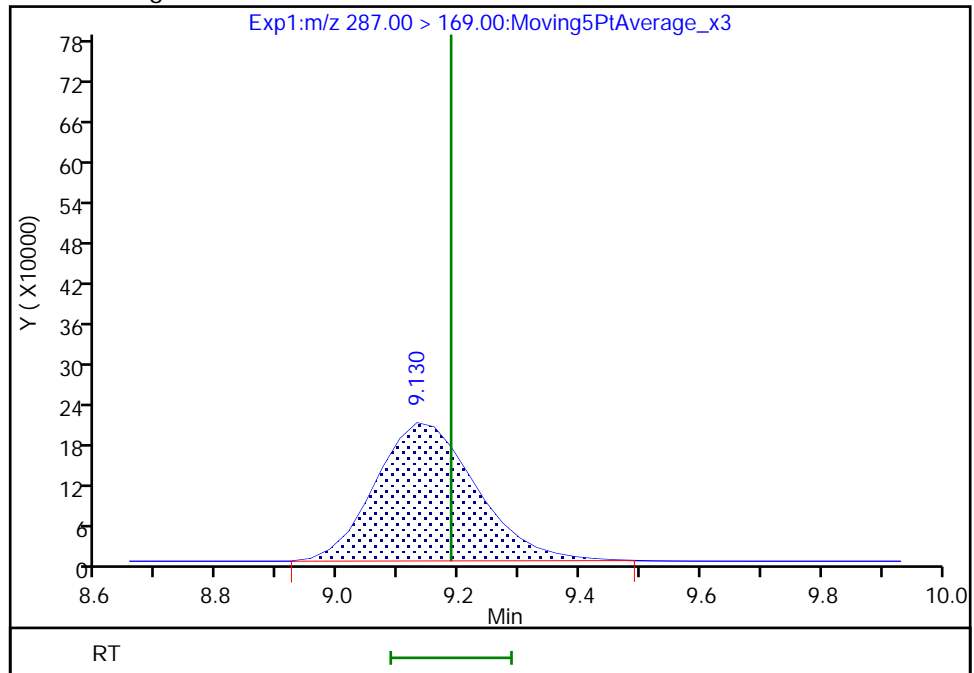
RT: 9.13  
Area: 2397695  
Amount: 0.284138  
Amount Units: ng/ml

Processing Integration Results



RT: 9.13  
Area: 2377026  
Amount: 0.282763  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:54

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

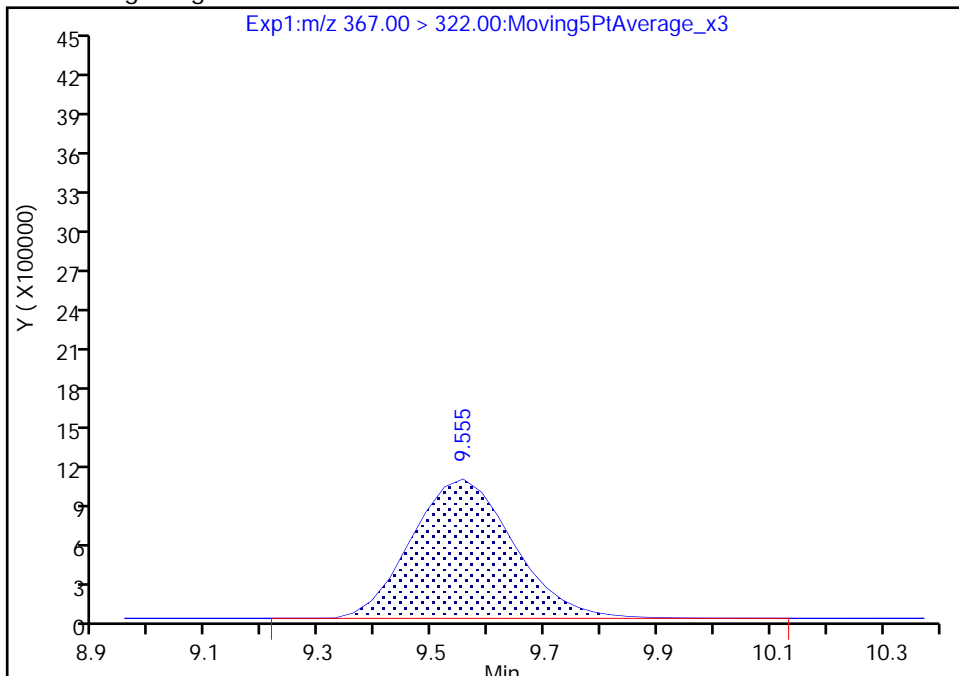
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_009.d  
Injection Date: 06-Feb-2021 14:09:57 Instrument ID: A12  
Lims ID: IC STD 6 (75)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

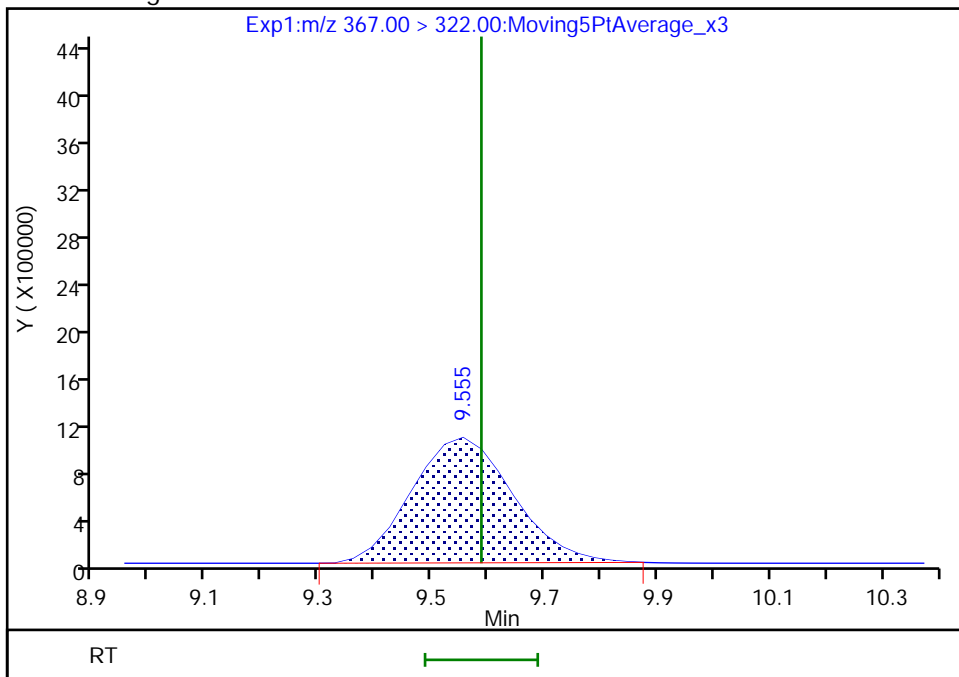
RT: 9.56  
Area: 13451333  
Amount: 0.319626  
Amount Units: ng/ml

Processing Integration Results



RT: 9.56  
Area: 13307315  
Amount: 0.307054  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:58:51

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d  
 Lims ID: IC STD 7 (396)  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 06-Feb-2021 14:27:28 ALS Bottle#: 10 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (396)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:38 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerase Date: 07-Feb-2021 11:56:21

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.154	4.309	-0.155		1526169	0.0976		97.6	171	M
2 R-EVE										M
405.00 > 217.00	6.407	6.466	-0.060		725507	0.0974		97.4	1298	M
3 R-PSDA										M
440.90 > 241.00	6.466	6.526	-0.060		376606	0.0940		94.0	1281	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.546	6.590	-0.044		1265504	0.0968		96.8	1972	M
23 PMPA										
229.00 > 185.00	6.755	6.803	-0.048		2296676	0.0938		93.8	1544	
5 NVHOS										
297.00 > 135.00	7.134	7.182	-0.048		917574	0.0971		97.1	14342	
6 PFO2HxA										
245.00 > 85.00	7.706	7.768	-0.062		1817253	0.0982		98.2	9821	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		927361	0.0987		98.7	3481	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		3588569	0.0990		99.0	89391	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		1528657	0.1027		103	30462	
9 PFO3OA										
310.90 > 85.00	9.045	9.074	-0.029		795068	0.1072		107	16310	
11 HPFO-DA										
285.00 > 169.00	9.130	9.187	-0.057	1.000	927895	0.0915		91.5	19572	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.130	9.187	-0.057		2215982	0.2636		105	62863	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		7709074	0.0987		98.7	149824	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		11551408	0.2665		107	83910	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.587	-0.032		10343996	0.1039		104	120487	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	5230178	0.0978	Target=0.00	97.8	23122	
363.00 > 169.00	9.555	9.587	-0.032	1.000	1506617		3.47(0.00-0.00)	97.8	23904	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		3719134	0.1034		103	83205	
17 PFECA G										
378.90 > 184.90	9.673	9.731	-0.058		1131882	0.1049		105	31936	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		1027138	0.1110		111	17658	
19 PS Acid										
443.00 > 146.90	9.903	9.932	-0.029		1628601	0.1032		103	46244	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		6743711	0.1020		102	144385	
21 TAF										
442.90 > 85.00	10.399	10.449	-0.050		744238	0.0992		99.2	2537	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00396

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d

Injection Date: 06-Feb-2021 14:27:28

Instrument ID: A12

Lims ID: IC STD 7 (396)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 10

Worklist Smp#: 8

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

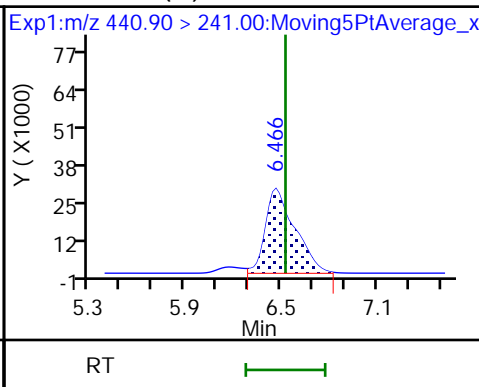
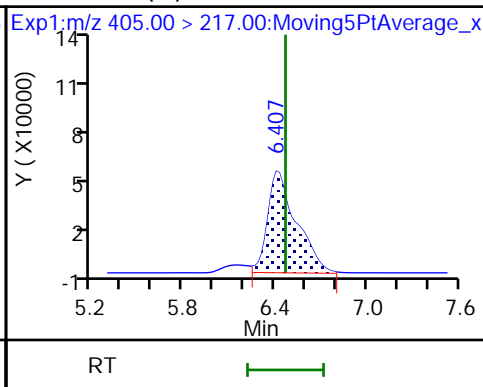
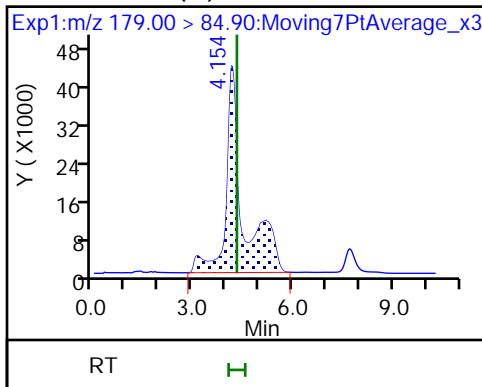
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

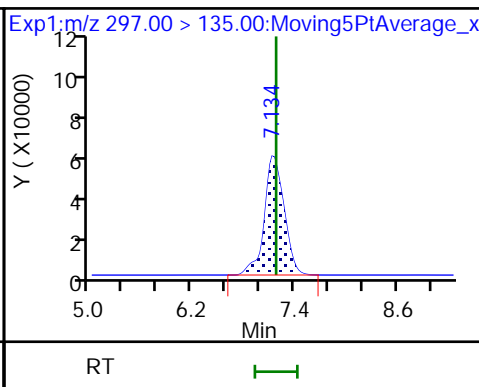
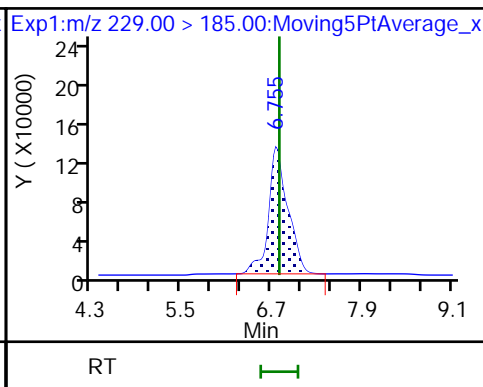
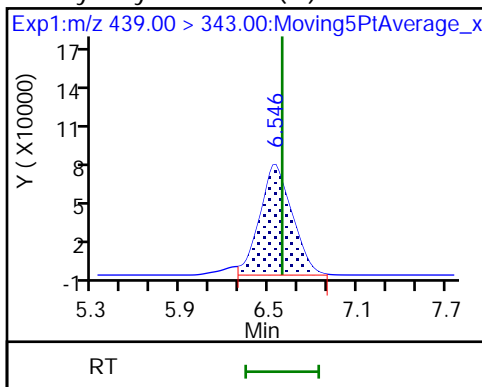
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA

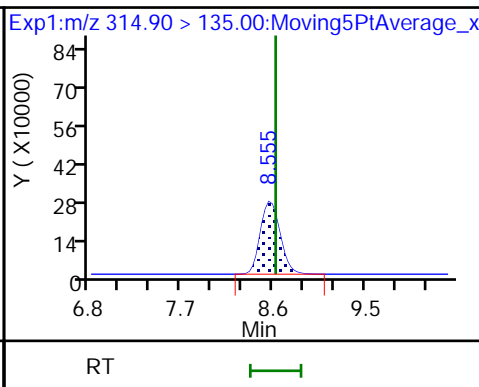
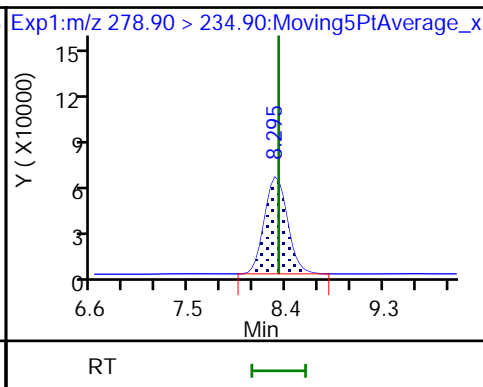
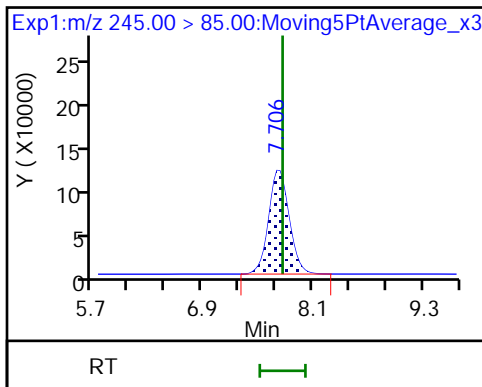
5 NVHOS



6 PFO2HxA

22 PEPA

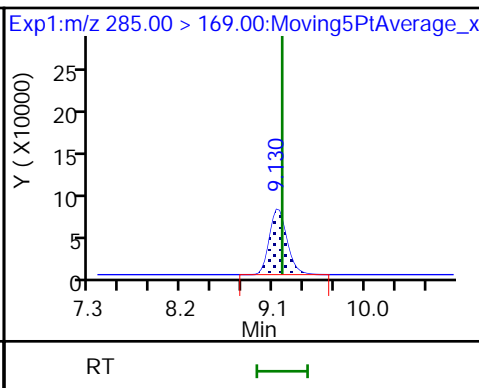
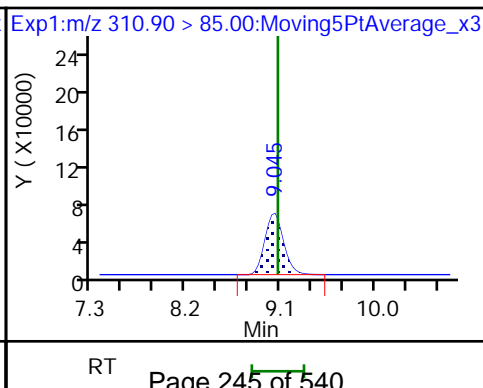
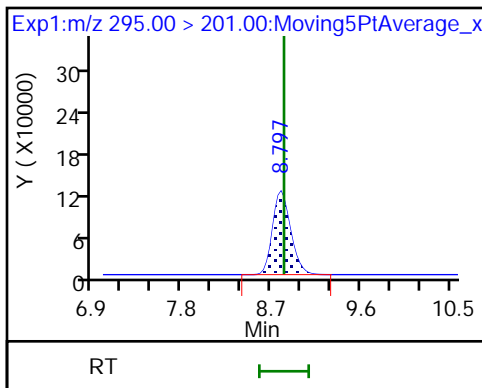
7 PES



8 PFECA B

9 PFO3OA

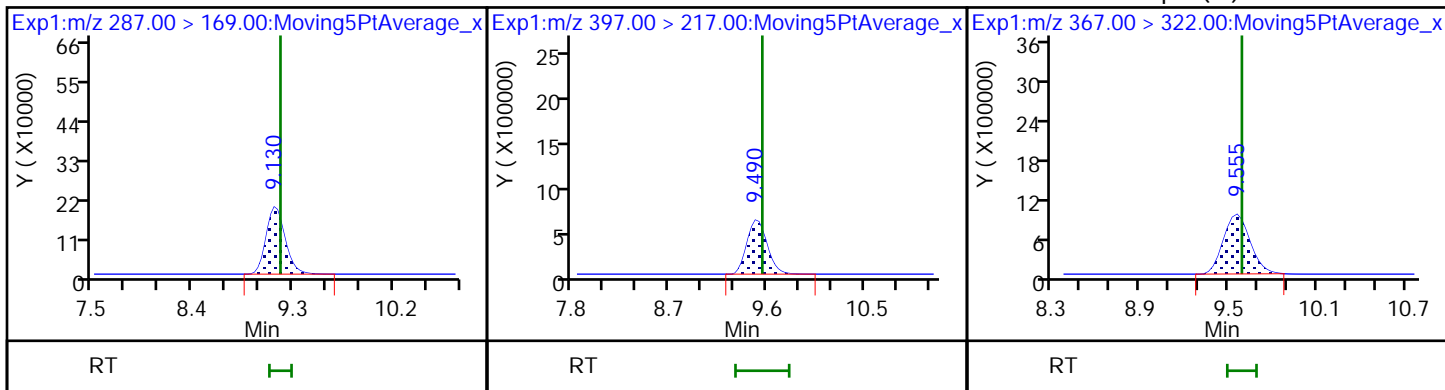
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

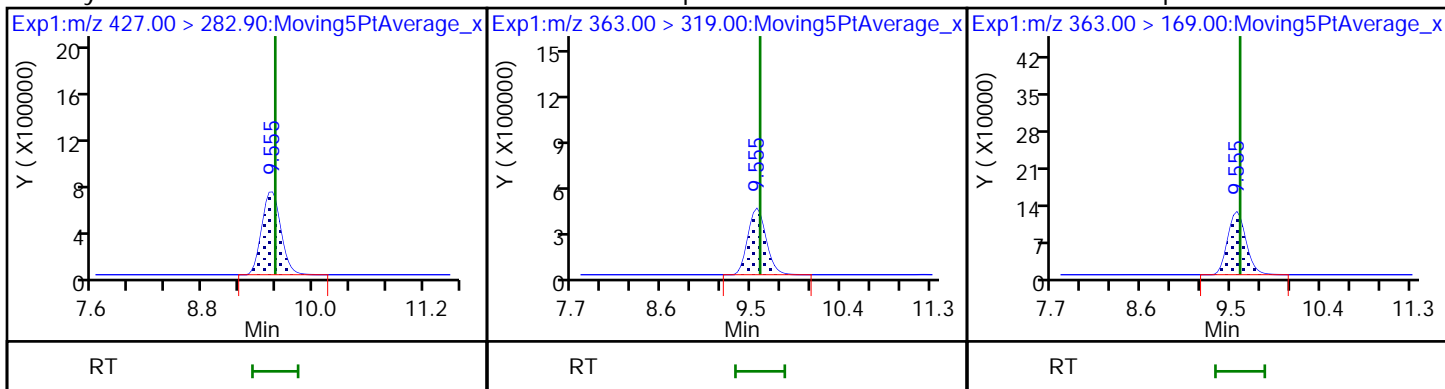
D 14 13C4 PFHpA (M)



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

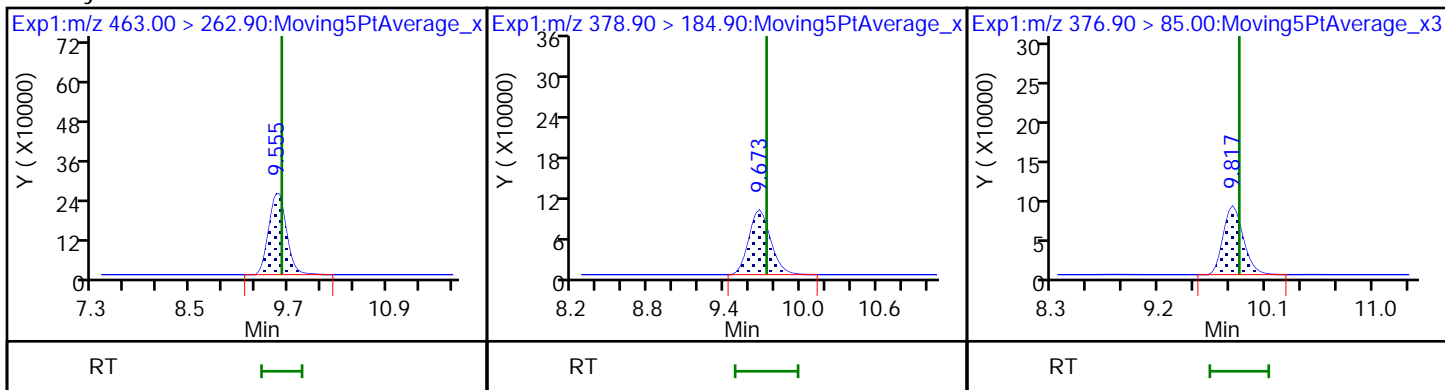
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

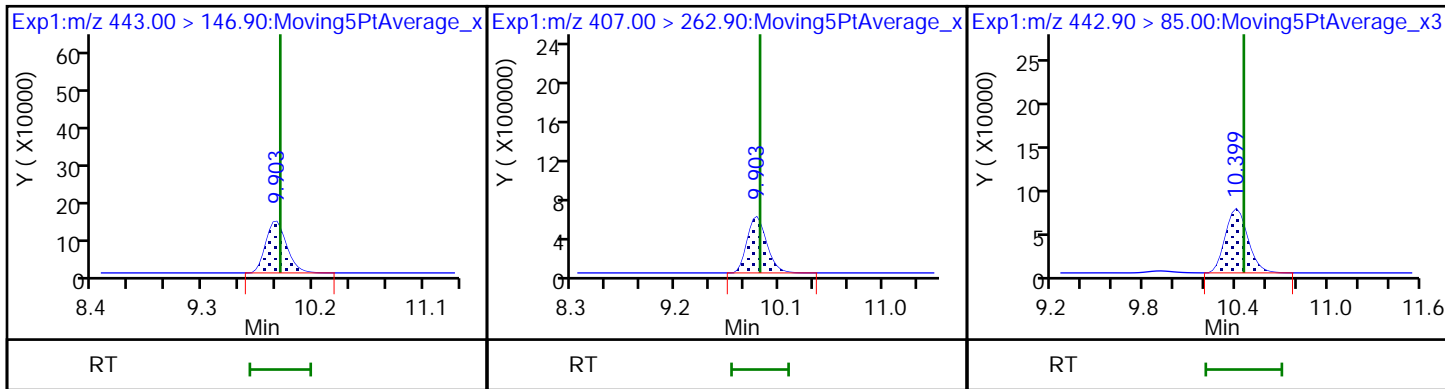
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

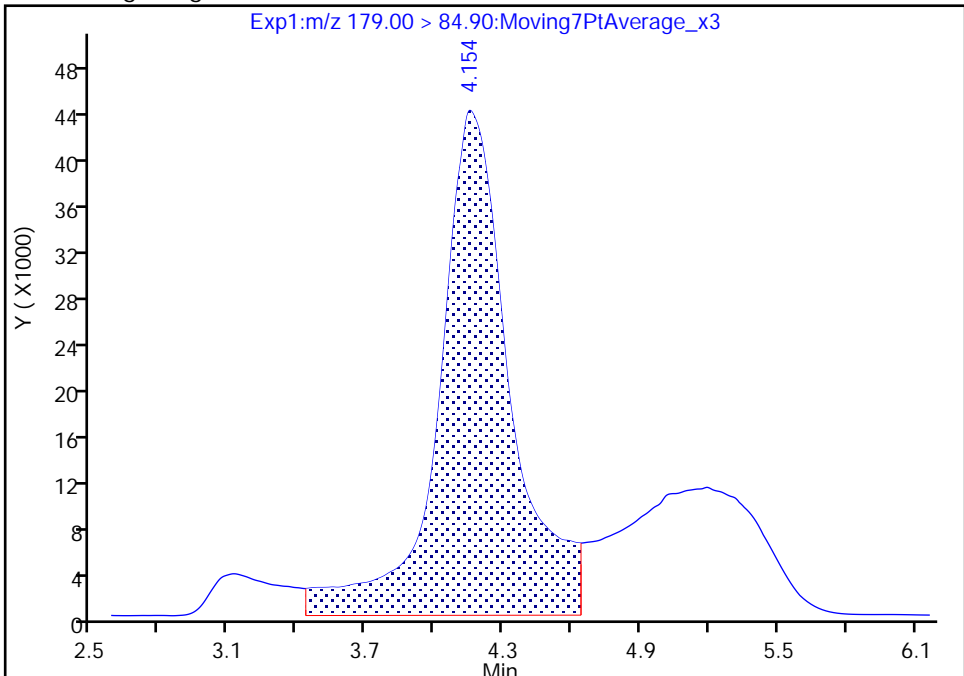
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Injection Date: 06-Feb-2021 14:27:28 Instrument ID: A12  
Lims ID: IC STD 7 (396)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

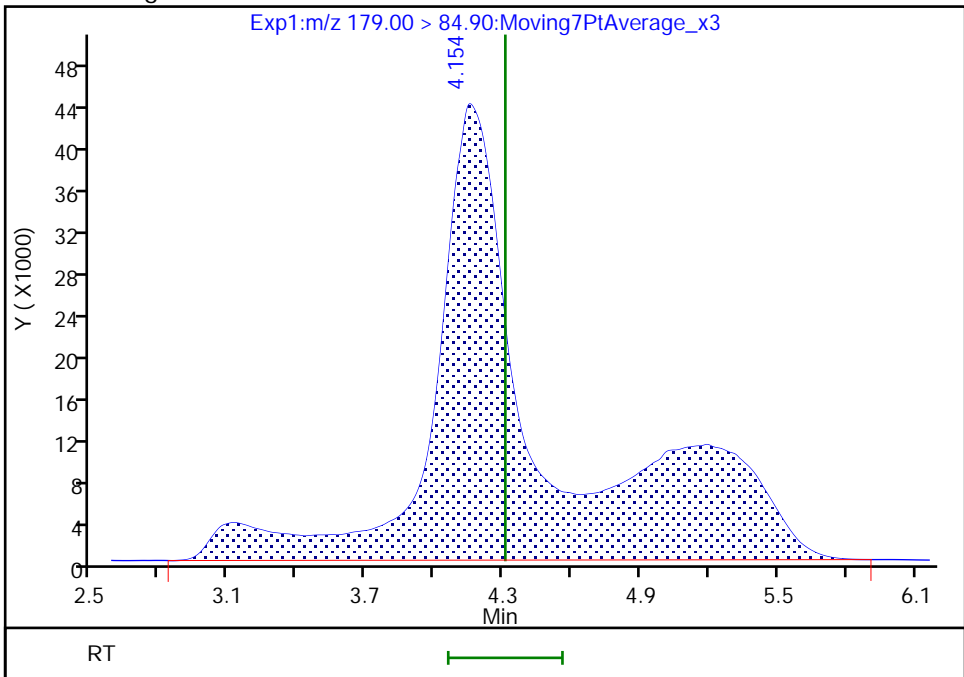
RT: 4.15  
Area: 967417  
Amount: 0.074191  
Amount Units: ng/ml

Processing Integration Results



RT: 4.15  
Area: 1526169  
Amount: 0.097630  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Sacramento

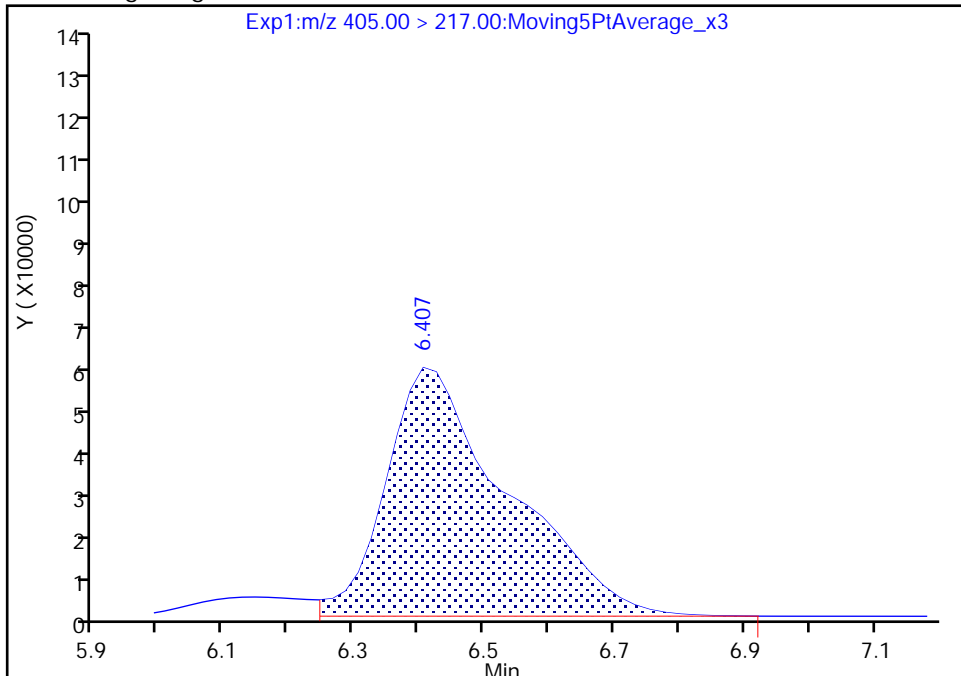
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d  
Injection Date: 06-Feb-2021 14:27:28 Instrument ID: A12  
Lims ID: IC STD 7 (396)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

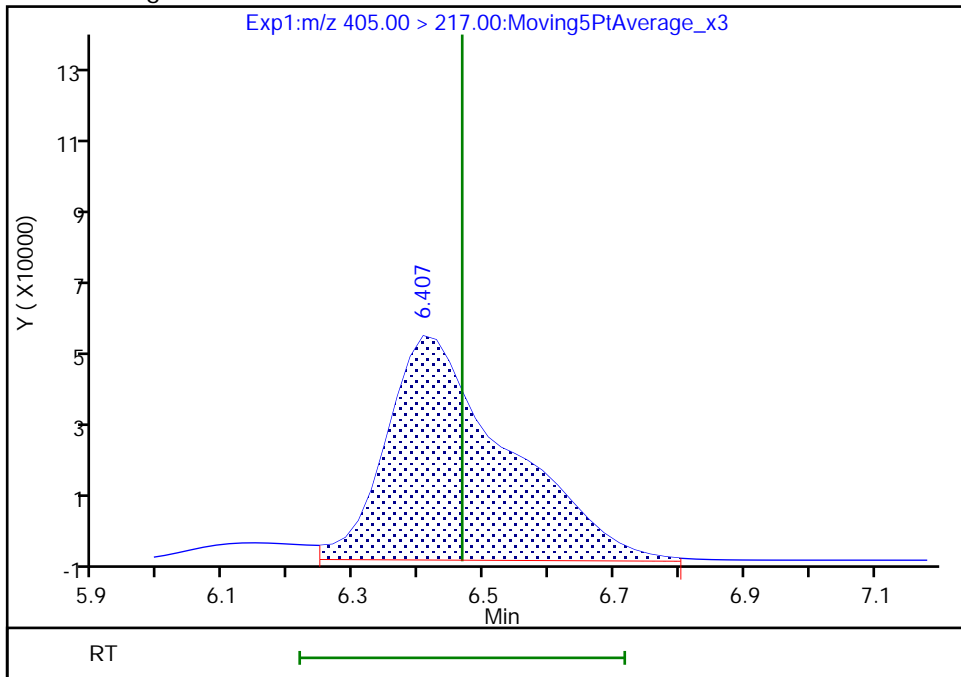
RT: 6.41  
Area: 724085  
Amount: 0.091543  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 725507  
Amount: 0.097404  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

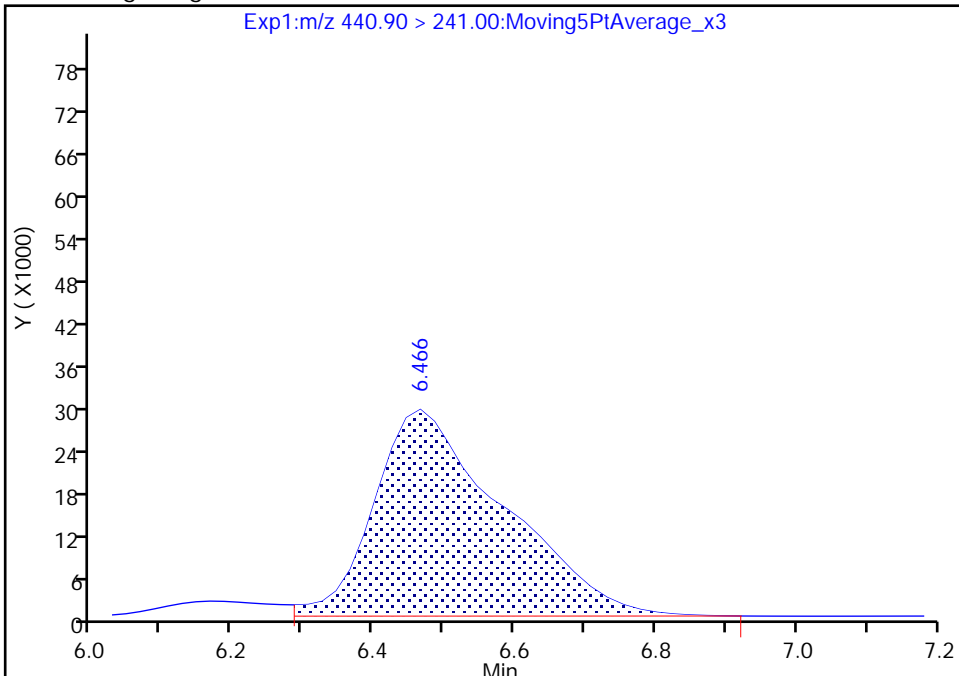
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d  
Injection Date: 06-Feb-2021 14:27:28 Instrument ID: A12  
Lims ID: IC STD 7 (396)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

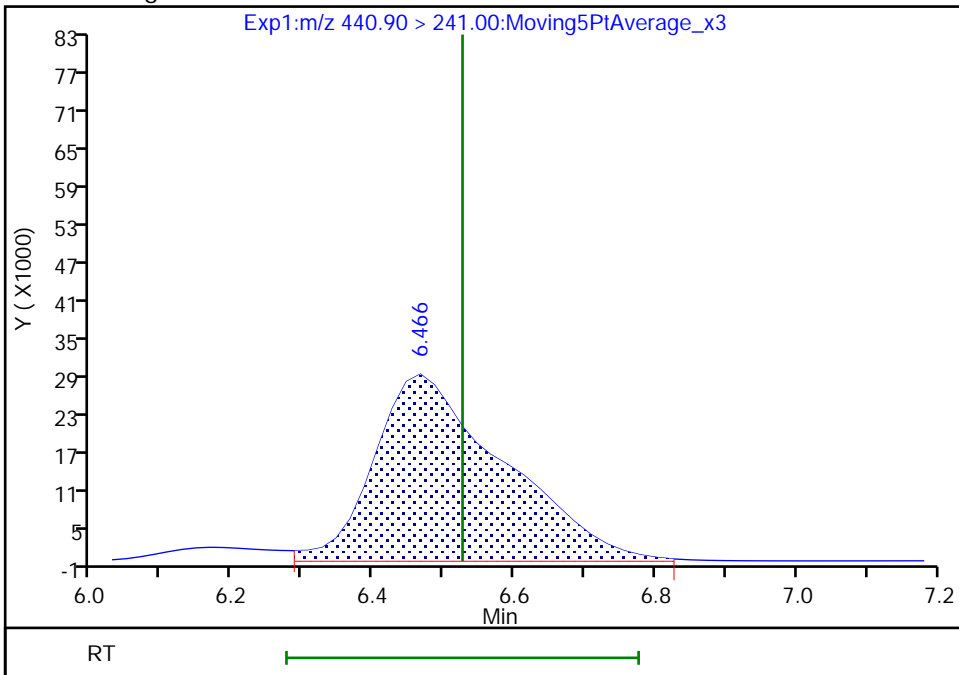
RT: 6.47  
Area: 374922  
Amount: 0.087359  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 376606  
Amount: 0.093976  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

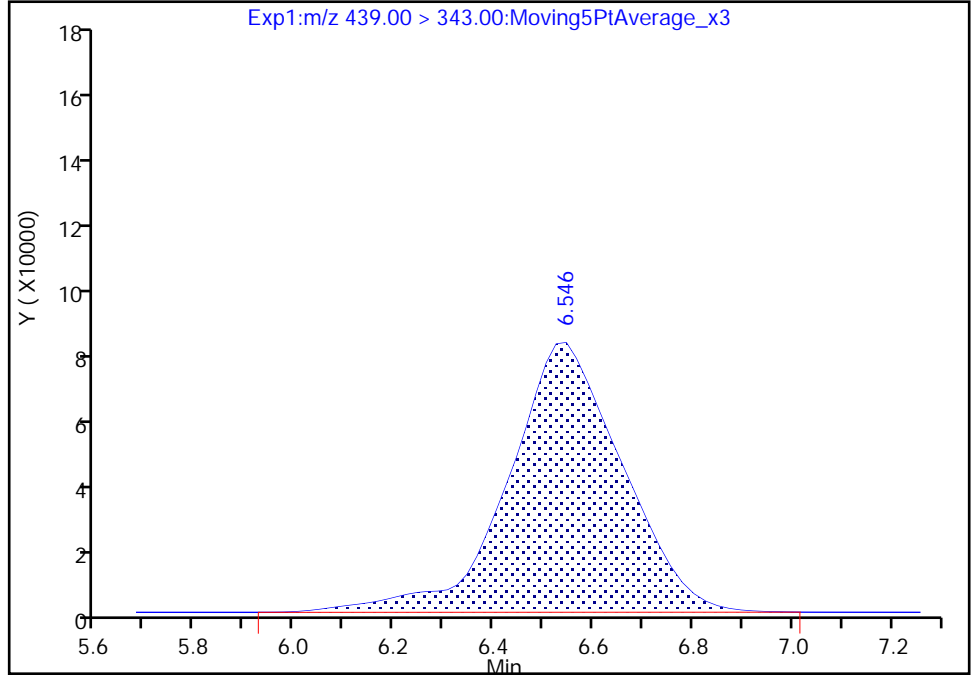
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d  
Injection Date: 06-Feb-2021 14:27:28 Instrument ID: A12  
Lims ID: IC STD 7 (396)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

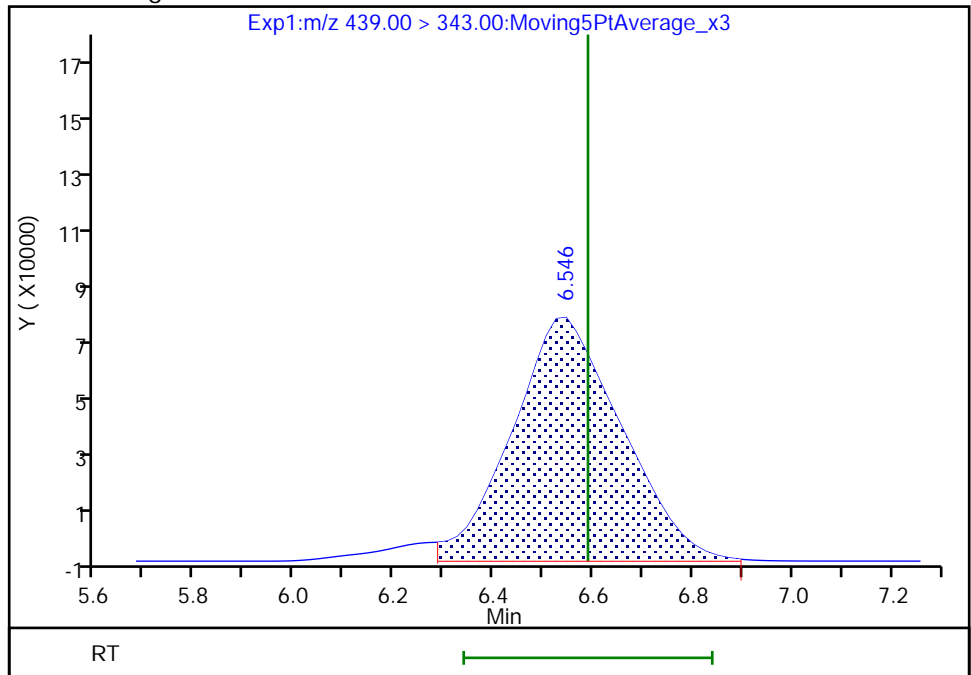
RT: 6.55  
Area: 1318254  
Amount: 0.097466  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 1265504  
Amount: 0.096809  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:52:56  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

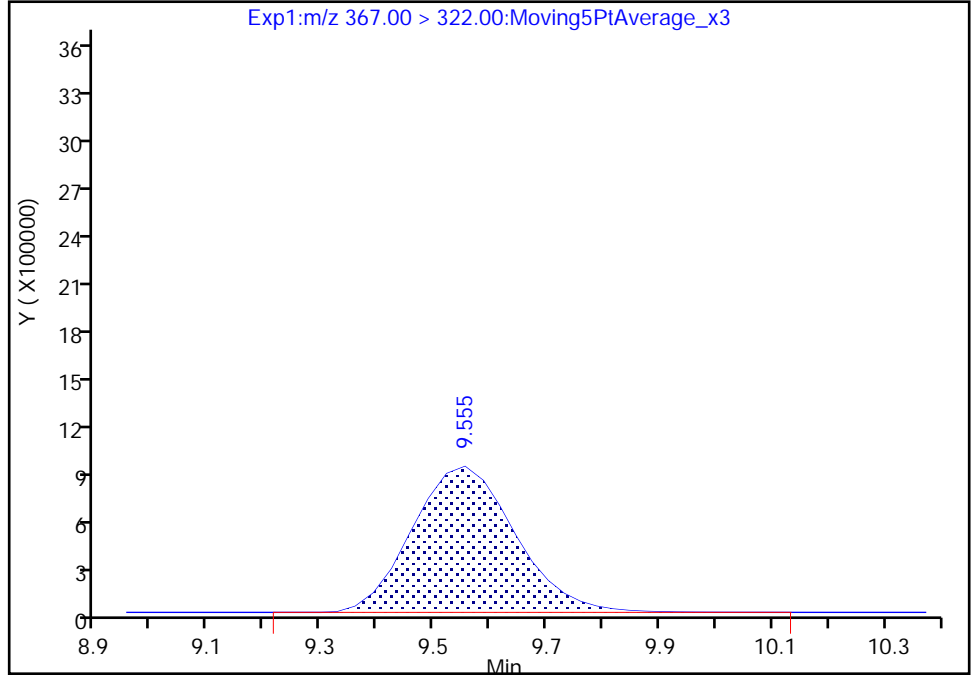
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_010.d  
Injection Date: 06-Feb-2021 14:27:28 Instrument ID: A12  
Lims ID: IC STD 7 (396)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

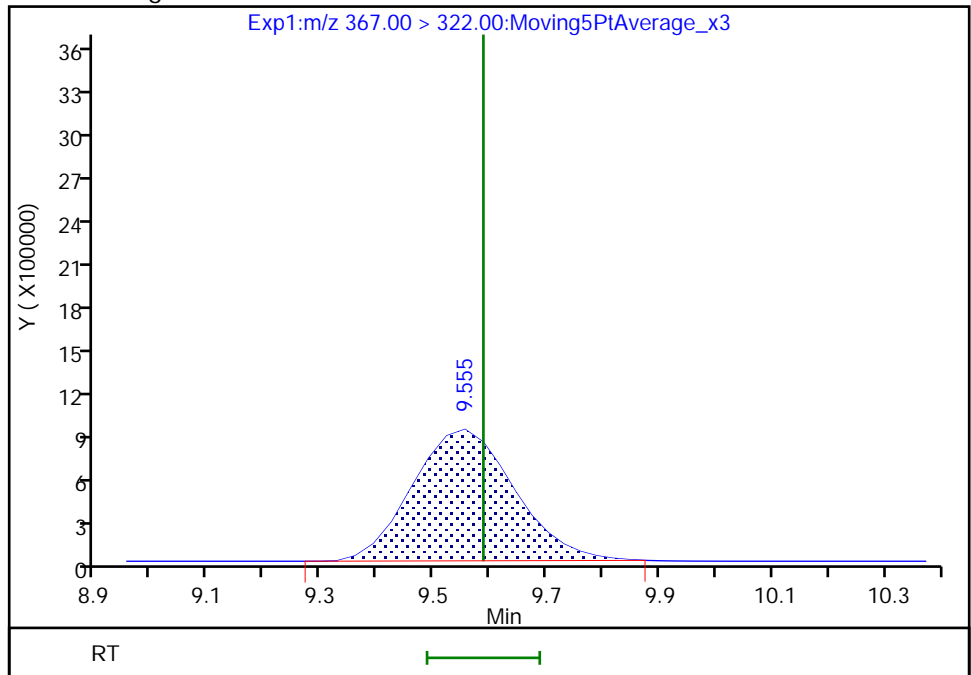
RT: 9.55  
Area: 11679435  
Amount: 0.277903  
Amount Units: ng/ml

Processing Integration Results



RT: 9.55  
Area: 11551408  
Amount: 0.266538  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:07  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 252 of 540

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_012.d  
 Lims ID: IC STD 8 (43)  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 06-Feb-2021 15:02:34 ALS Bottle#: 12 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (43)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:39 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerase Date: 07-Feb-2021 11:56:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.172	4.309	-0.137		3820521	0.2444		97.8	281	M
2 R-EVE										M
405.00 > 217.00	6.426	6.466	-0.040		1879024	0.2523		101	1533	M
3 R-PSDA										M
440.90 > 241.00	6.466	6.526	-0.060		964209	0.2406		96.2	1594	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.546	6.590	-0.044		3109106	0.2378		95.1	1955	M
23 PMPA										M
229.00 > 185.00	6.755	6.803	-0.048		5890575	0.2405		96.2	3808	M
5 NVHOS										
297.00 > 135.00	7.158	7.182	-0.024		2414037	0.2554		102	38451	
6 PFO2HxA										
245.00 > 85.00	7.737	7.768	-0.031		4602670	0.2487		99.5	25050	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		2427867	0.2585		103	8592	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		9081506	0.2507		100	168636	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		3863050	0.2595		104	77056	
9 PFO3OA										
310.90 > 85.00	9.045	9.074	-0.029		2110206	0.2846		114	43317	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.187	-0.057		2061400	0.2452		98.1	44125	M
11 HPFO-DA										
285.00 > 169.00	9.130	9.187	-0.057	1.000	2420440	0.2567		103	68293	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		18976213	0.2429		97.2	295757	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		9669766	0.2231		89.2	58735	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.522	9.587	-0.065		24258218	0.2436		97.5	241612	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	11329993	0.2530	Target=0.00	101	46915	
363.00 > 169.00	9.555	9.587	-0.032	1.000	3334137		3.40(0.00-0.00)	101	52265	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		8934569	0.2484		99.4	200900	
17 PFECA G										
378.90 > 184.90	9.673	9.731	-0.058		2635546	0.2444		97.7	73207	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		2210210	0.2389		95.5	23633	
19 PS Acid										
443.00 > 146.90	9.874	9.932	-0.058		3917215	0.2482		99.3	84024	
20 EVE Acid										
407.00 > 262.90	9.874	9.932	-0.058		14889287	0.2251		90.0	209470	
21 TAF										
442.90 > 85.00	10.399	10.449	-0.050		1815090	0.2420		96.8	3516	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00043

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_012.d

Injection Date: 06-Feb-2021 15:02:34

Instrument ID: A12

Lims ID: IC STD 8 (43)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 12

Worklist Smp#: 10

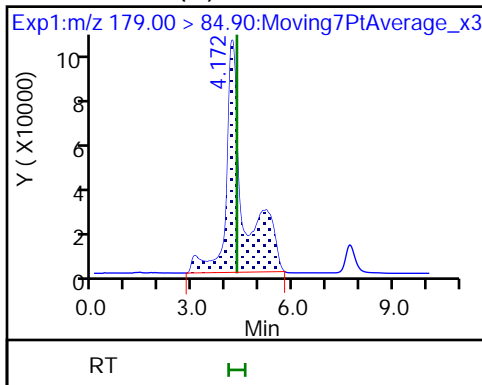
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

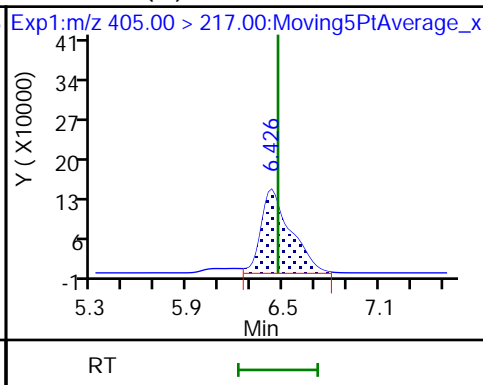
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

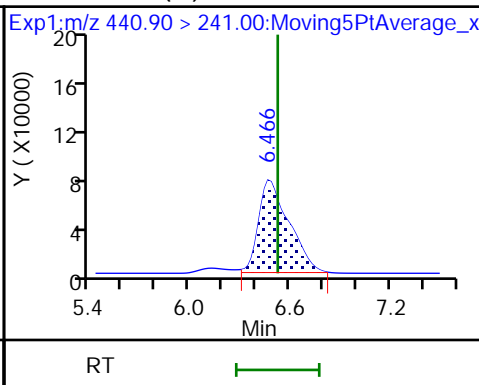
1 PFMOAA (M)



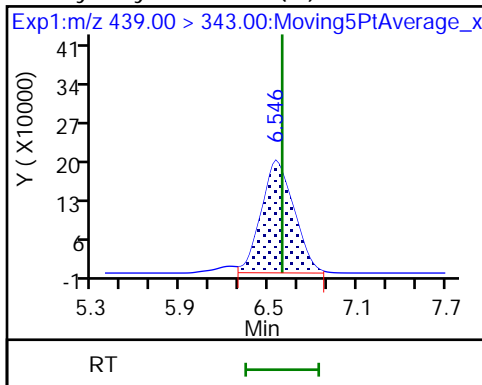
2 R-EVE (M)



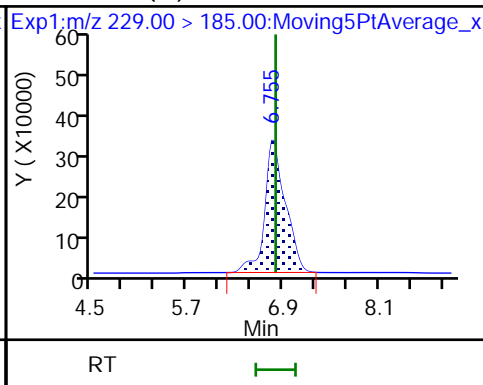
3 R-PSDA (M)



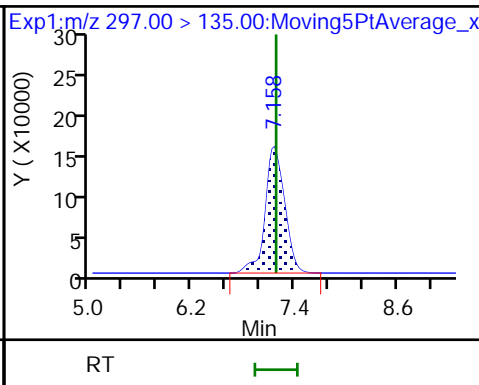
4 Hydrolyzed PSDA (M)



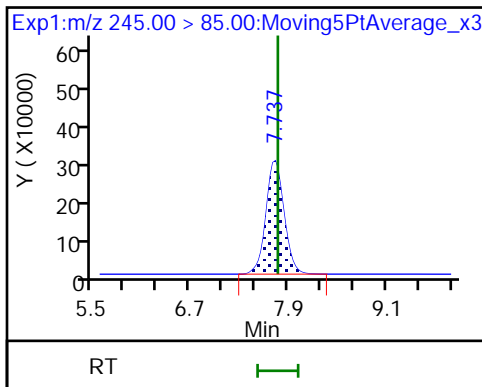
23 PMPA (M)



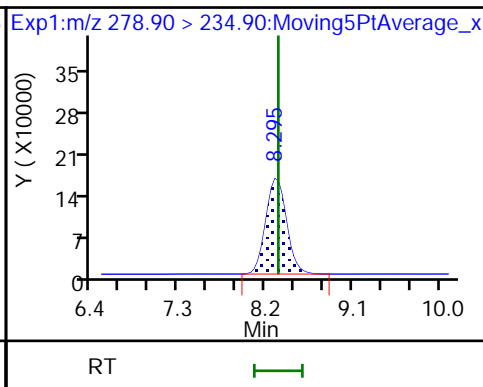
5 NVHOS



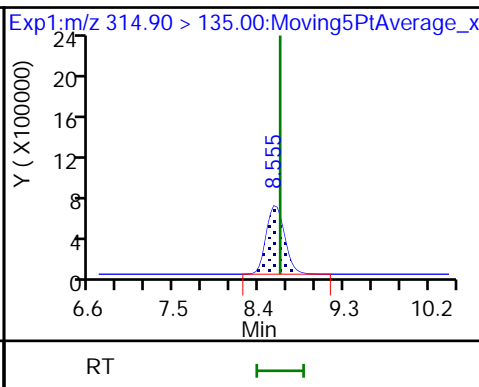
6 PFO2HxA



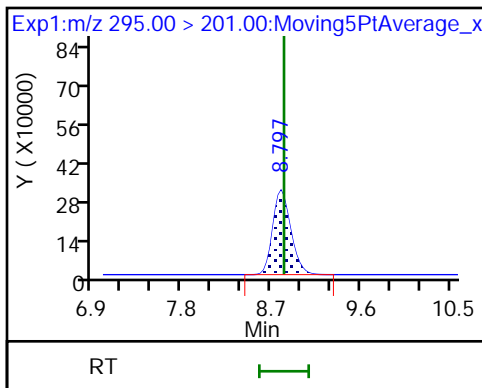
22 PEPA



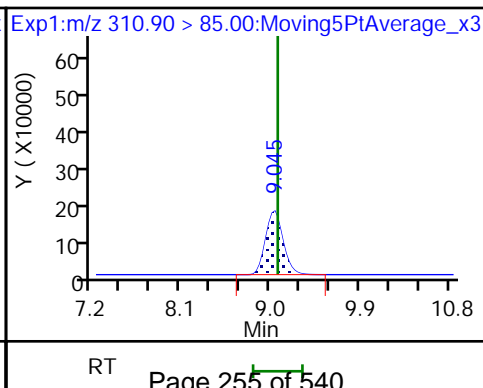
7 PES



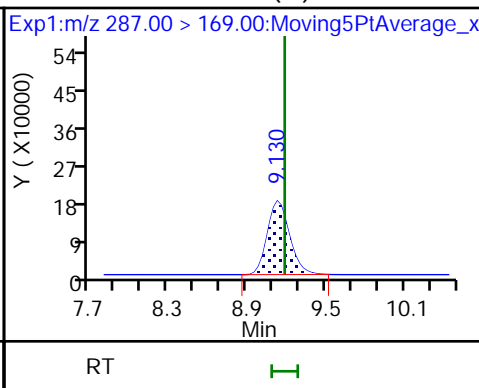
8 PFECA B

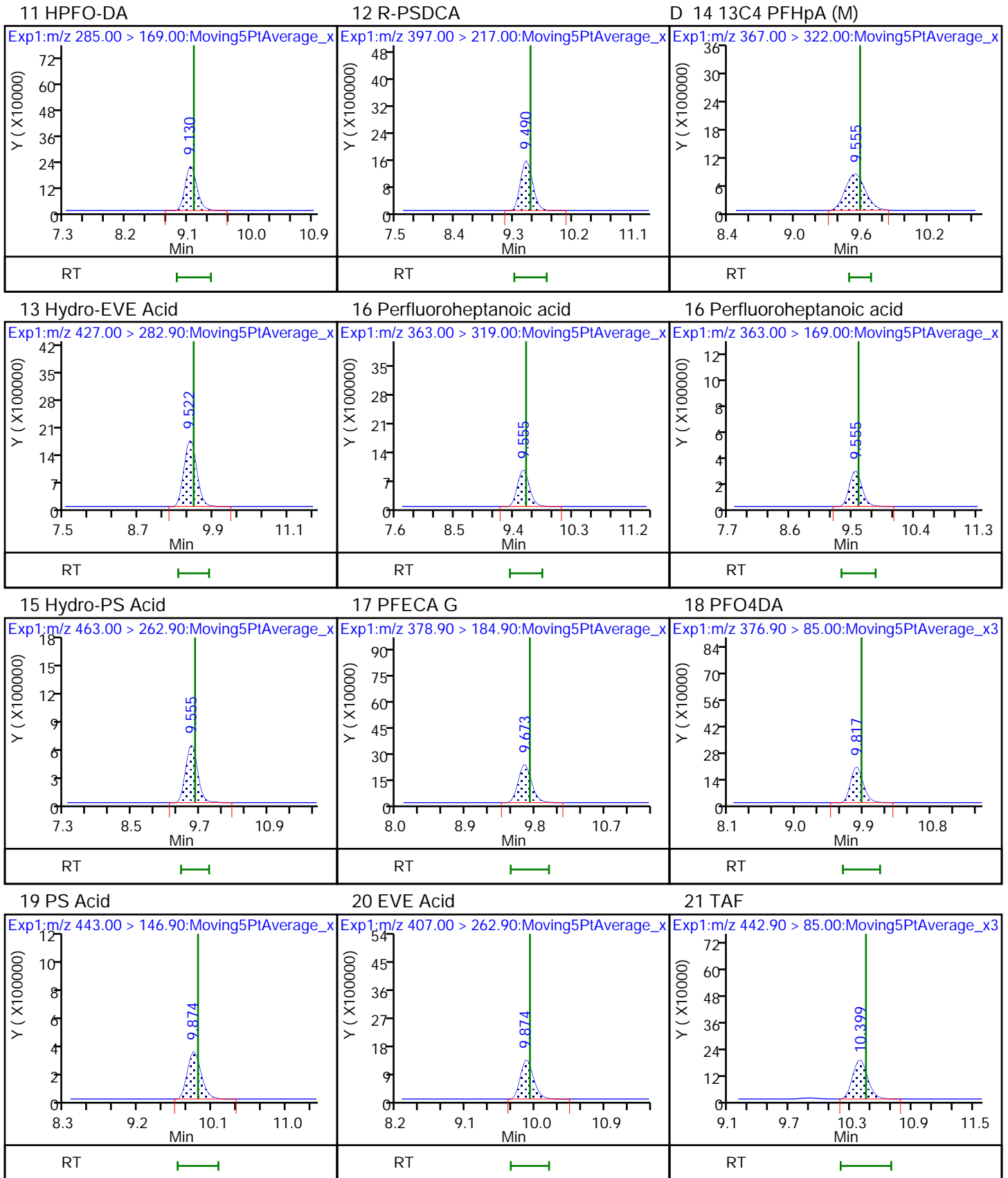


9 PFO3OA



D 10 13C3 HFPO-DA (M)









Eurofins TestAmerica, Sacramento

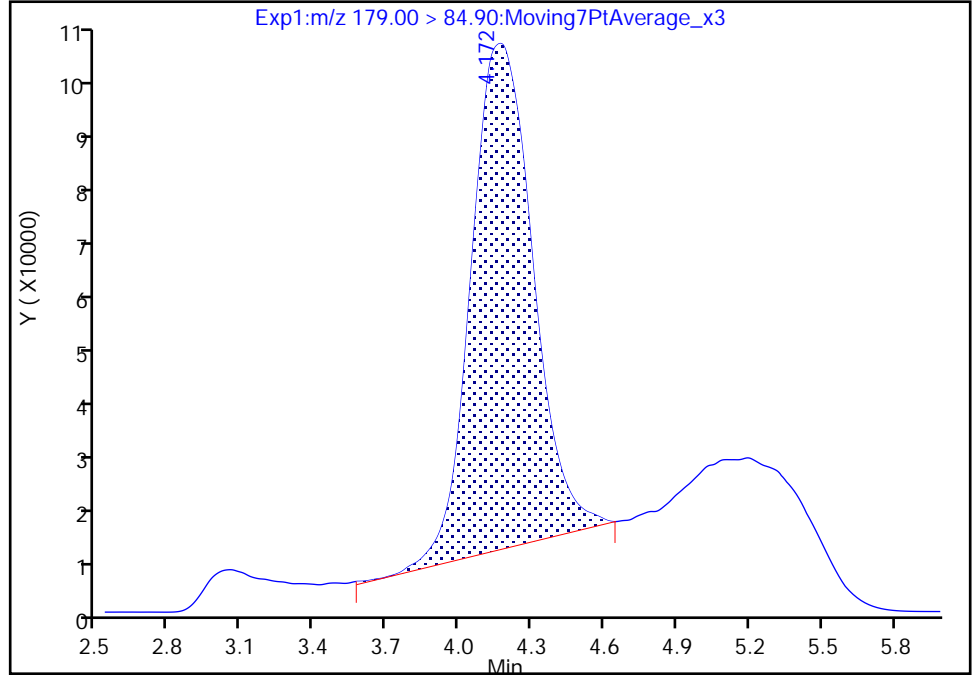
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

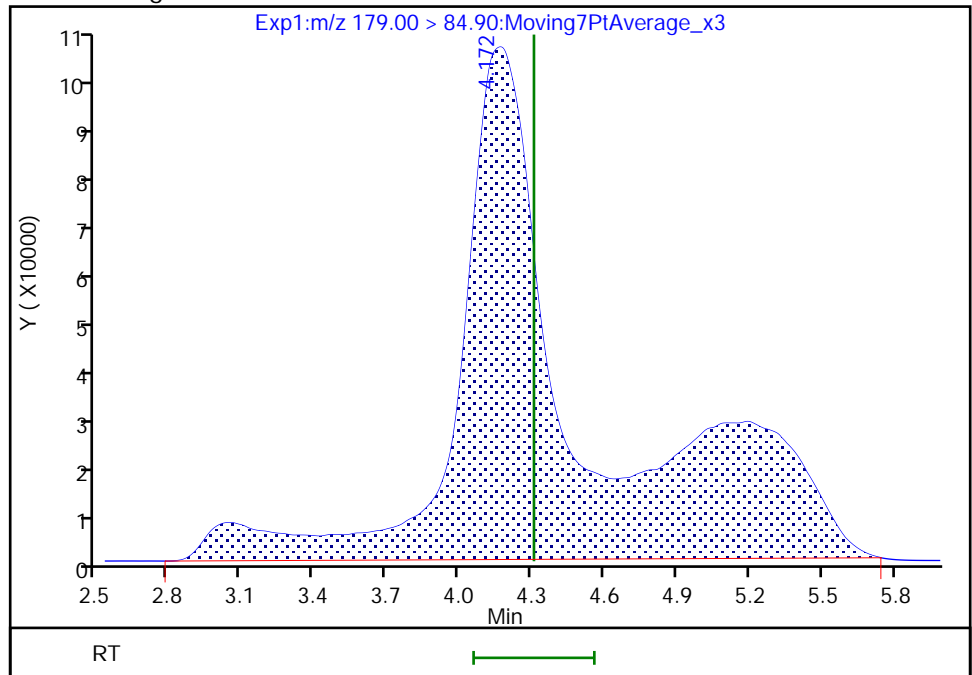
RT: 4.17  
Area: 1684819  
Amount: 0.123899  
Amount Units: ng/ml

Processing Integration Results



RT: 4.17  
Area: 3820521  
Amount: 0.244401  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:56:41  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

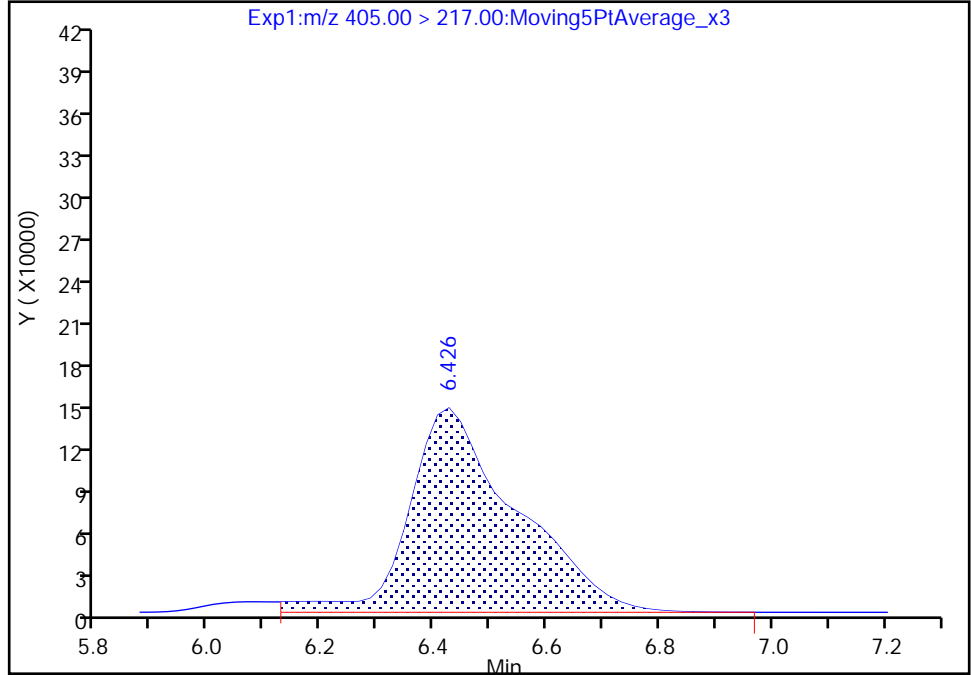
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

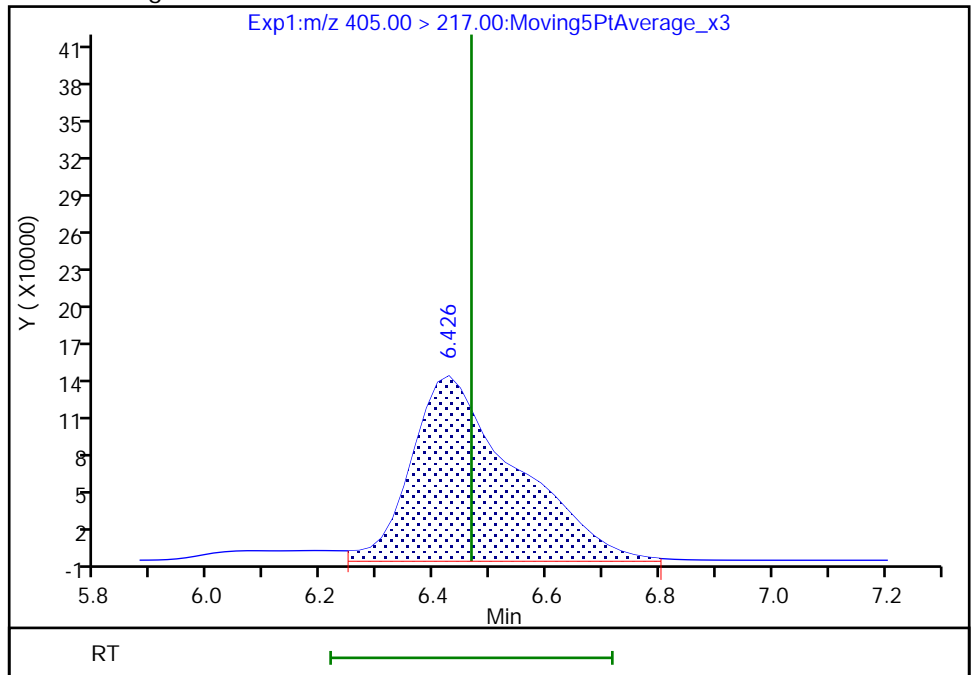
RT: 6.43  
Area: 1908204  
Amount: 0.239696  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 1879024  
Amount: 0.252270  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:53:14  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

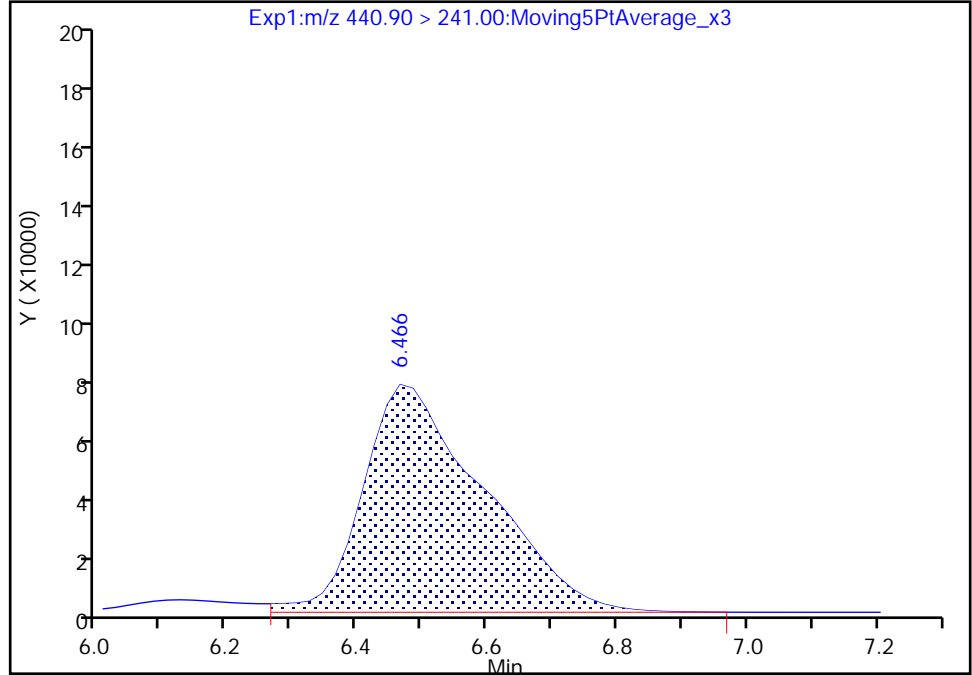
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

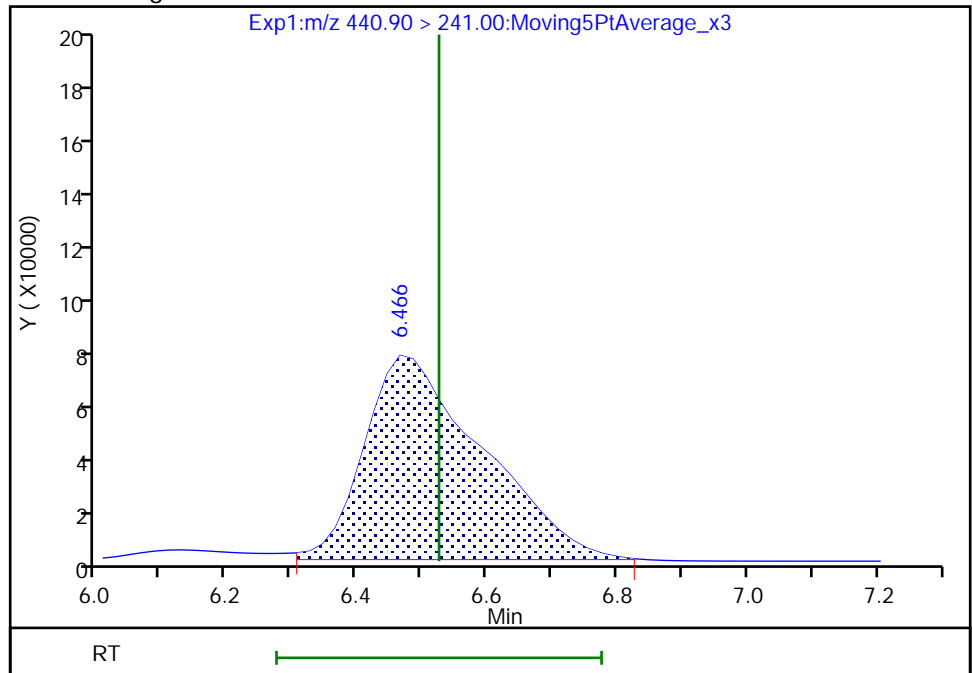
RT: 6.47  
Area: 991137  
Amount: 0.229716  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 964209  
Amount: 0.240604  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:53:18  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

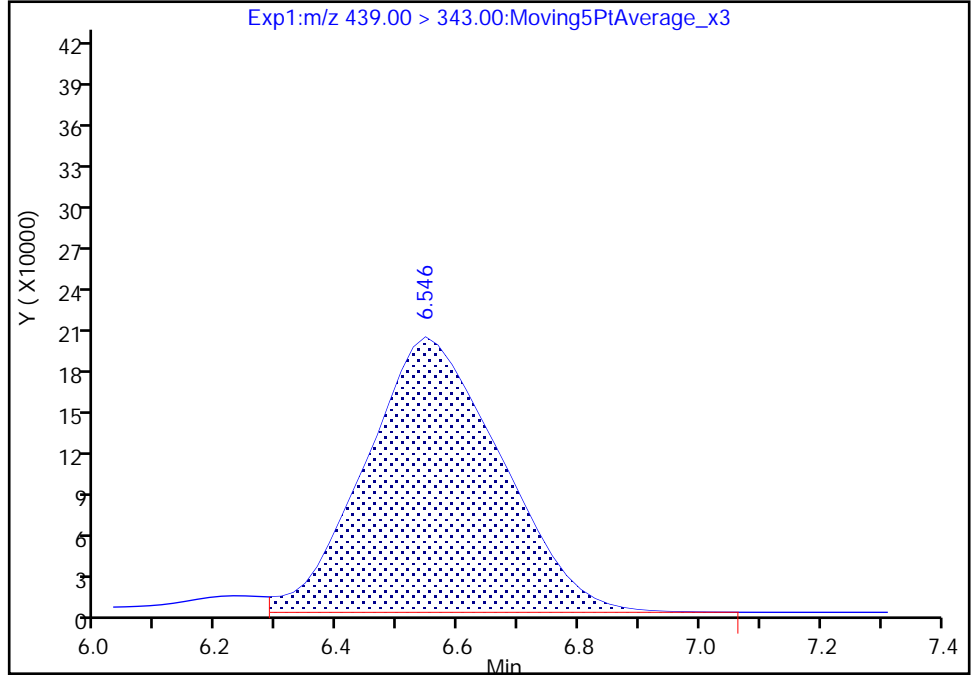
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

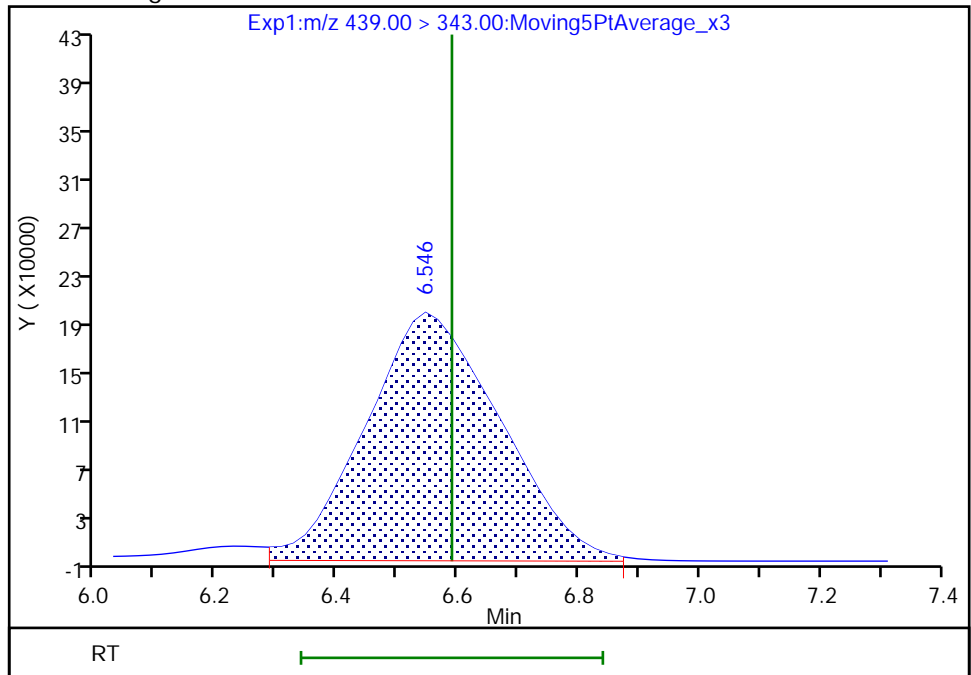
RT: 6.55  
Area: 3126048  
Amount: 0.230903  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 3109106  
Amount: 0.237842  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:53:22  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

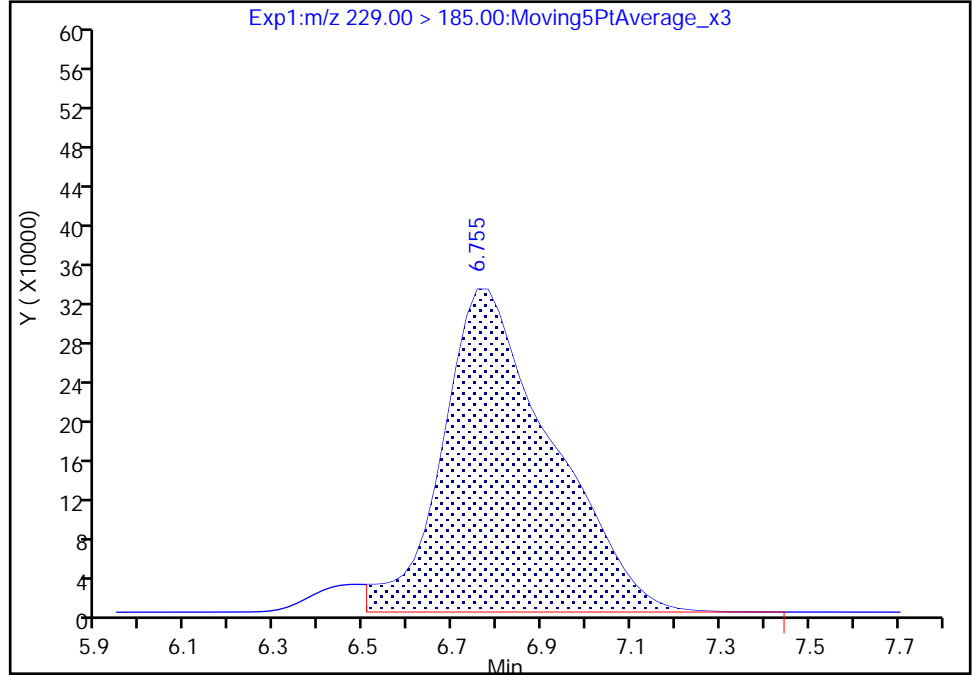
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

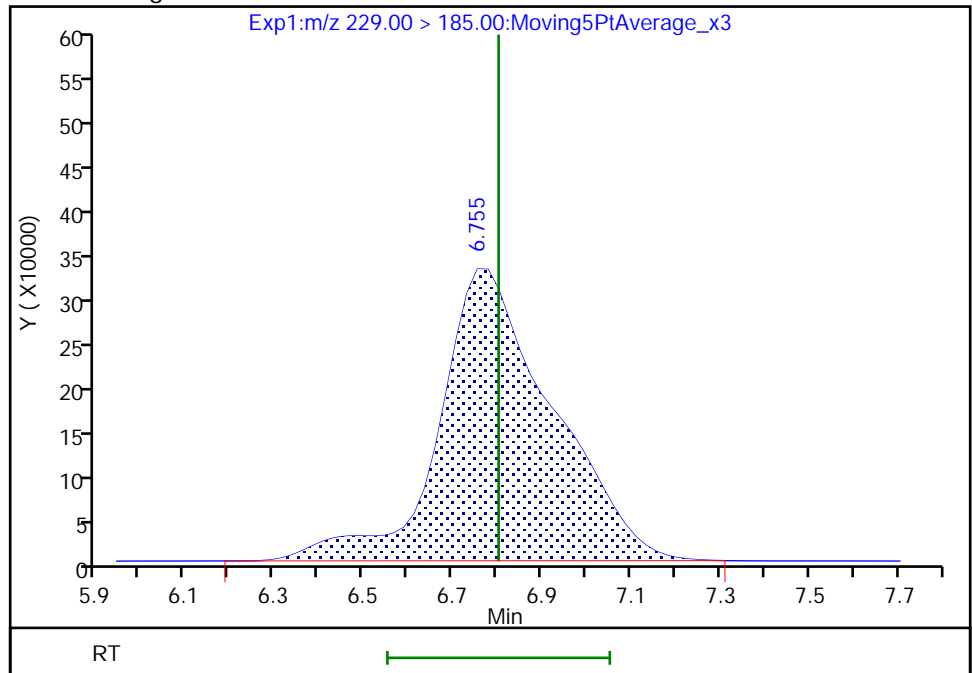
RT: 6.76  
Area: 5671643  
Amount: 0.214255  
Amount Units: ng/ml

Processing Integration Results



RT: 6.76  
Area: 5890575  
Amount: 0.240466  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:56:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

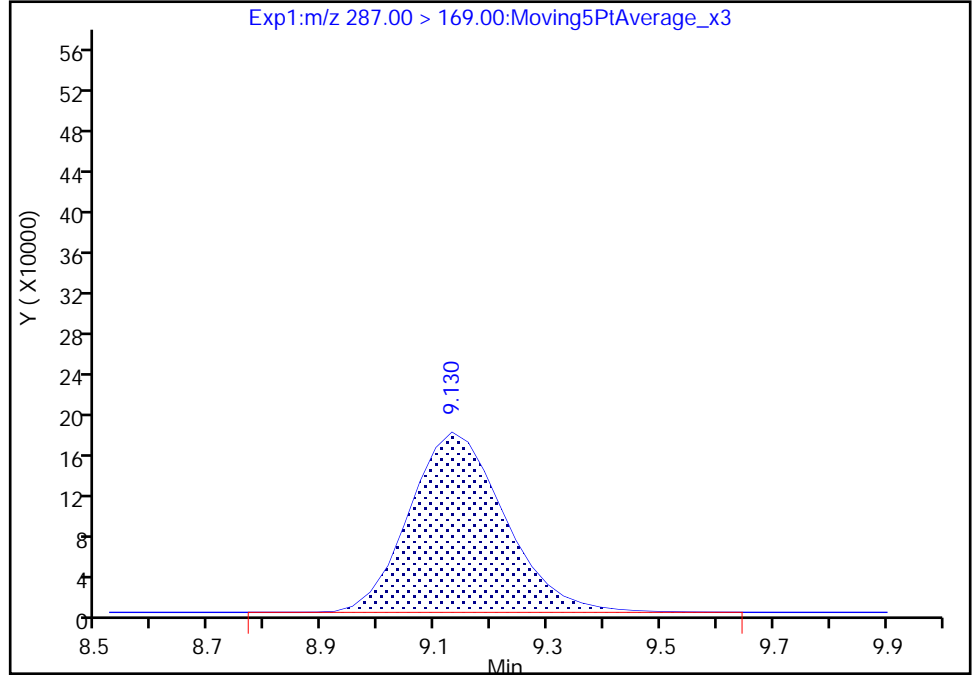
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**

Signal: 1

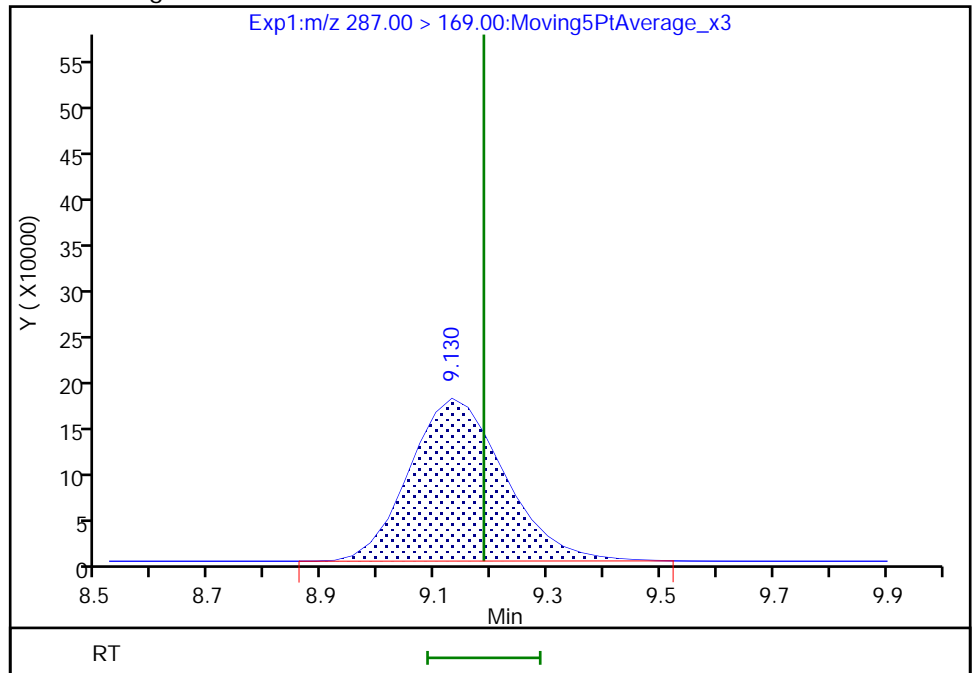
RT: 9.13  
Area: 2069630  
Amount: 0.245502  
Amount Units: ng/ml

Processing Integration Results



RT: 9.13  
Area: 2061400  
Amount: 0.245218  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

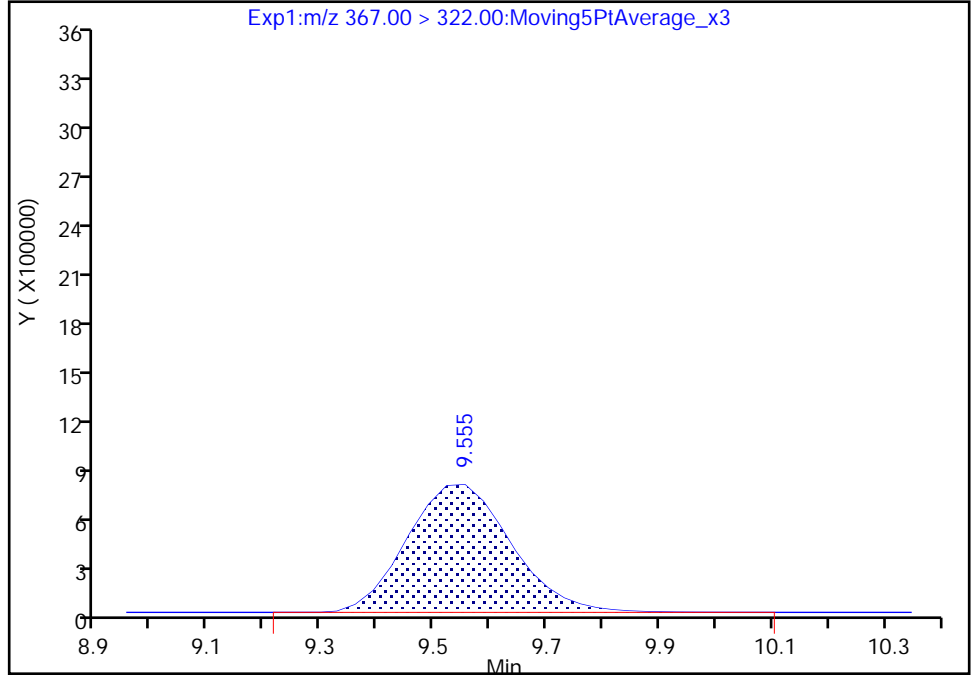
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Injection Date: 06-Feb-2021 15:02:34 Instrument ID: A12  
Lims ID: IC STD 8 (43)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

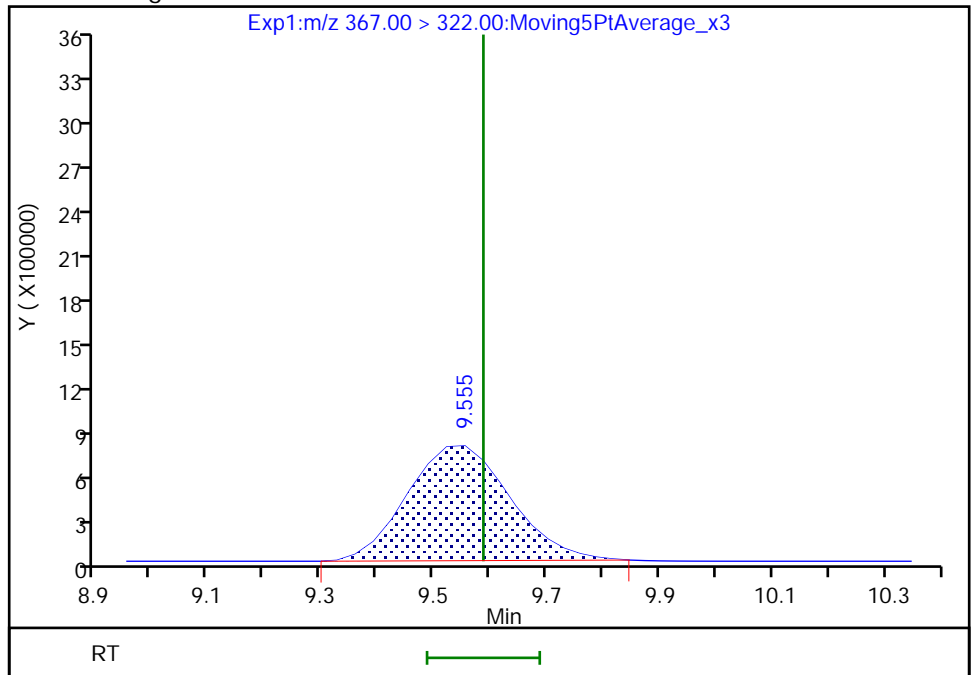
RT: 9.55  
Area: 9824731  
Amount: 0.234057  
Amount Units: ng/ml

Processing Integration Results



RT: 9.55  
Area: 9669766  
Amount: 0.223121  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:24  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_014.d  
 Lims ID: IC STD 9 (41)  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 06-Feb-2021 15:37:48 ALS Bottle#: 14 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (41)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:40 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 11:57:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.176	4.309	-0.133		7781733	0.4978		99.6	421	M
2 R-EVE										M
405.00 > 217.00	6.407	6.466	-0.059		3854936	0.5175		104	1492	M
3 R-PSDA										M
440.90 > 241.00	6.467	6.526	-0.059		2146515	0.5356		107	1828	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.546	6.590	-0.044		6574951	0.5030		101	2131	M
23 PMPA										
229.00 > 185.00	6.756	6.803	-0.047		11434411	0.4668		93.4	7727	
5 NVHOS										
297.00 > 135.00	7.135	7.182	-0.047		4821256	0.5101		102	77729	
6 PFO2HxA										
245.00 > 85.00	7.706	7.768	-0.062		9121948	0.4928		98.6	49899	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		4625964	0.4925		98.5	18416	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		18930970	0.5225		104	357234	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		7063326	0.4744		94.9	139114	
9 PFO3OA										
310.90 > 85.00	9.017	9.074	-0.057		3553886	0.4793		95.9	72149	
11 HPFO-DA										
285.00 > 169.00	9.130	9.187	-0.057	1.000	4339784	0.4826		96.5	92292	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.187	-0.057		1965730	0.2338		93.5	33837	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		33747065	0.4320		86.4	375798	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		8380476	0.1934		77.3	81969	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.587	-0.064		44349591	0.4454		89.1	386248	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	19241569	0.4958	Target=0.00	99.2	88595	
363.00 > 169.00	9.555	9.587	-0.032	1.000	5700877		3.38(0.00-0.00)	99.2	74046	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		17047957	0.4740		94.8	286471	
17 PFECA G										
378.90 > 184.90	9.674	9.731	-0.057		4439269	0.4116		82.3	122776	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		4273703	0.4619		92.4	33164	
19 PS Acid										
443.00 > 146.90	9.875	9.932	-0.057		6994673	0.4431		88.6	150163	
20 EVE Acid										
407.00 > 262.90	9.875	9.932	-0.057		26110635	0.3947		78.9	314701	
21 TAF										
442.90 > 85.00	10.374	10.449	-0.075		3502257	0.4669		93.4	4600	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD9\_00041

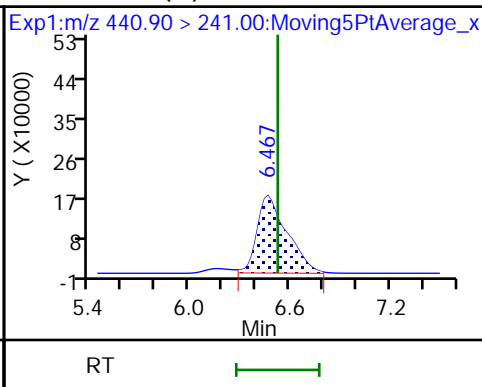
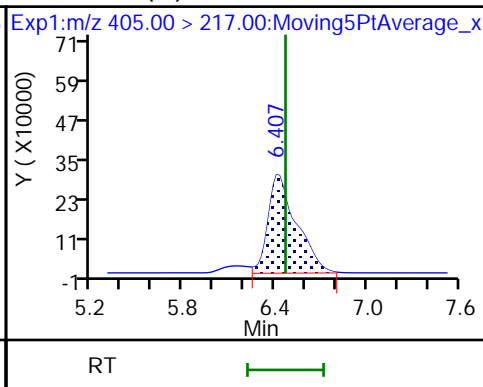
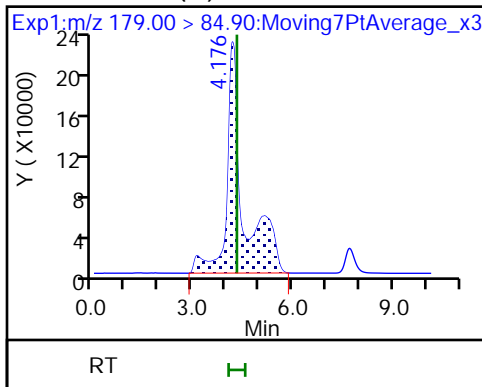
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

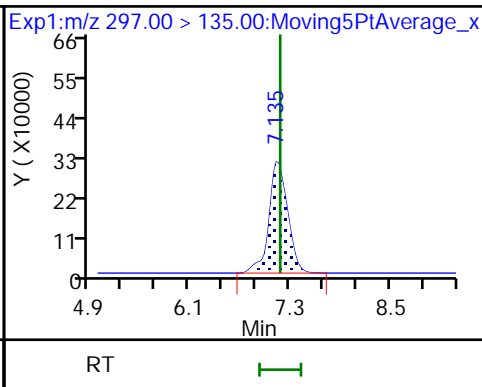
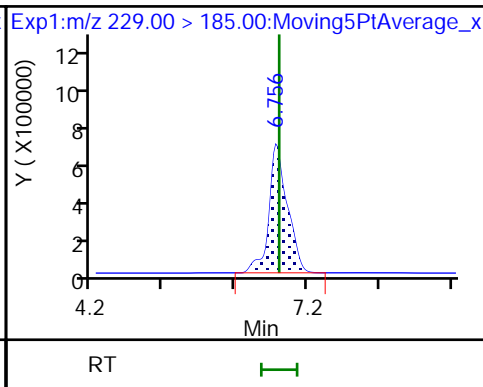
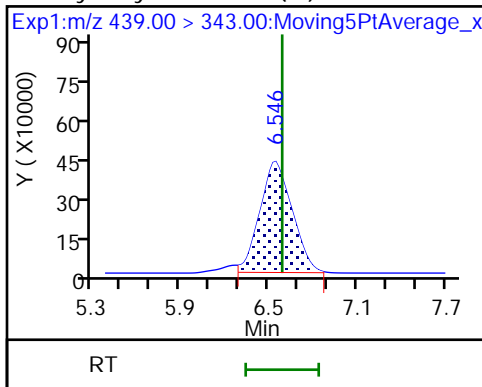
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA

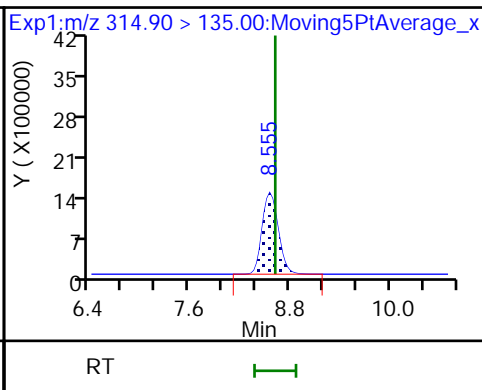
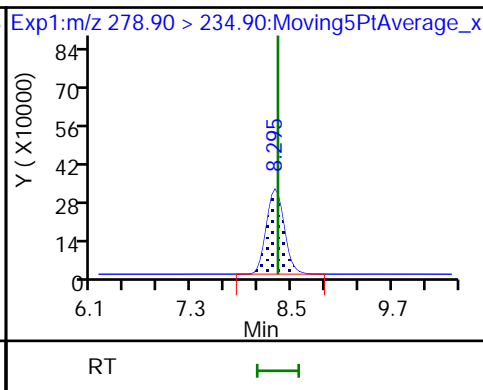
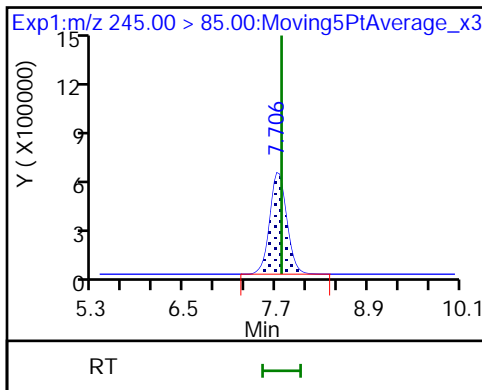
5 NVHOS



6 PFO2HxA

22 PEPA

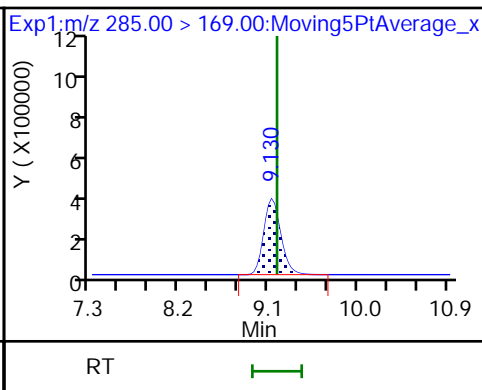
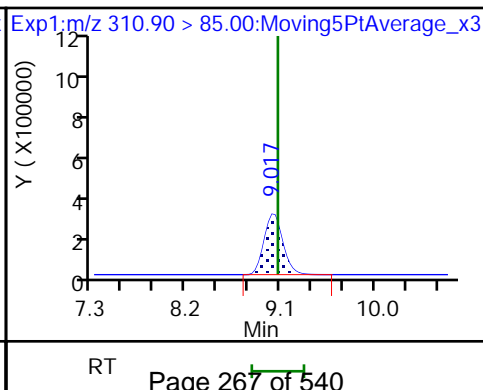
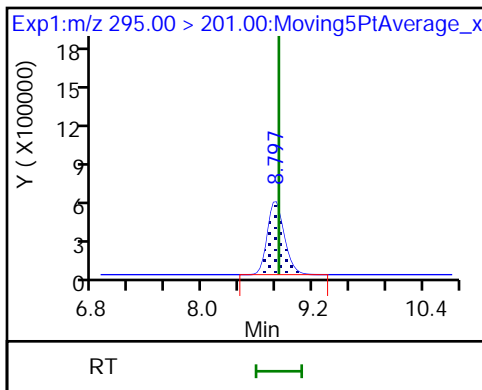
7 PES



8 PFECA B

9 PFO3OA

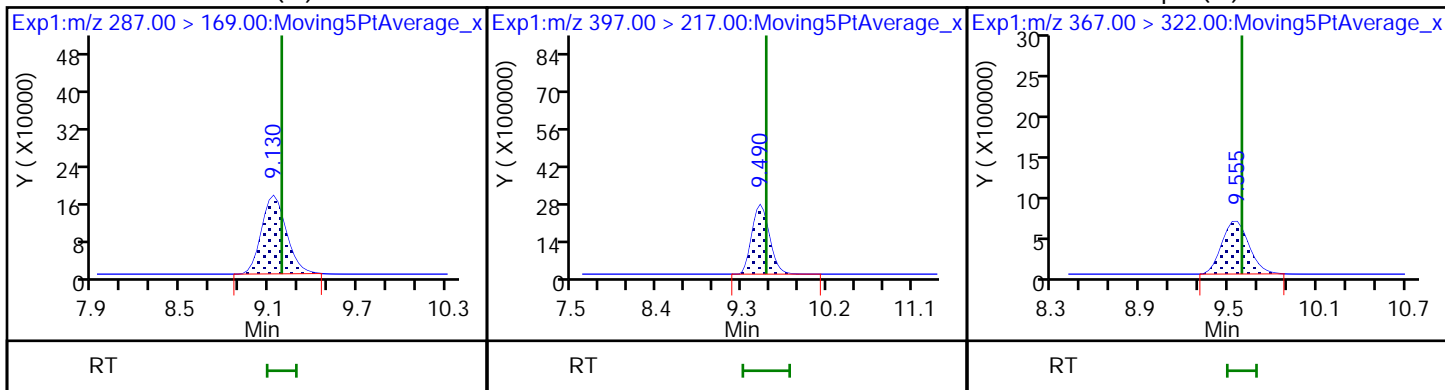
11 HPFO-DA



D 10 13C3 HFPO-DA (M)

12 R-PSDCA

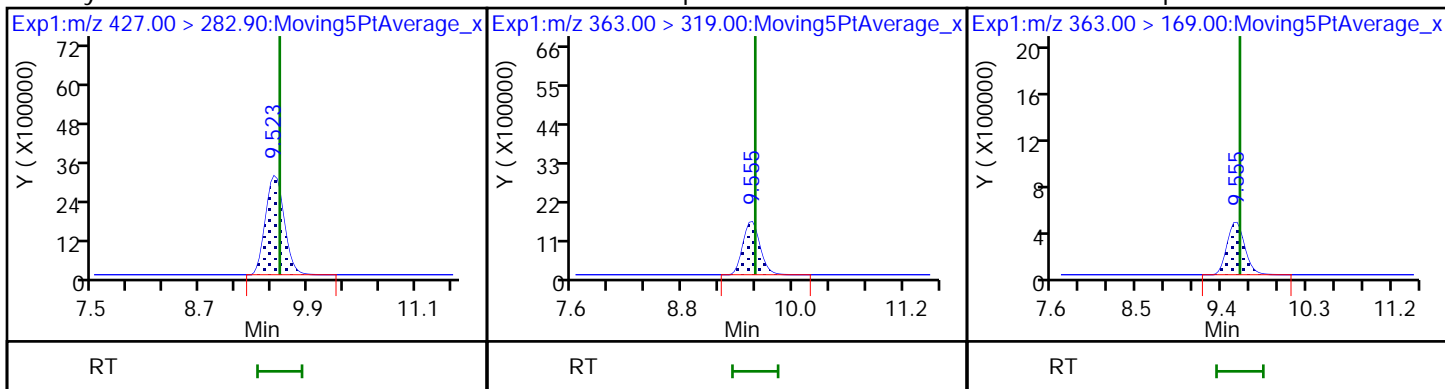
D 14 13C4 PFHpA (M)



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

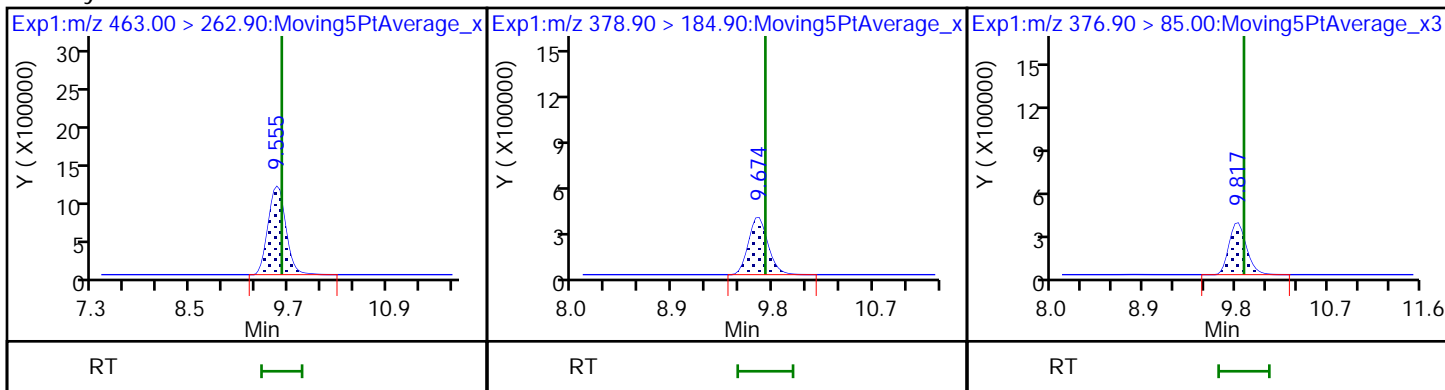
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

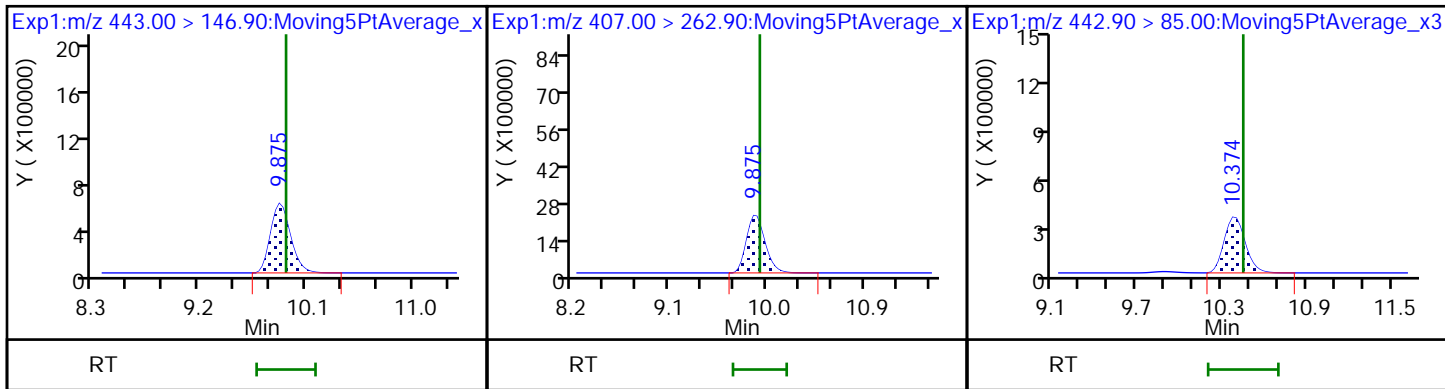
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

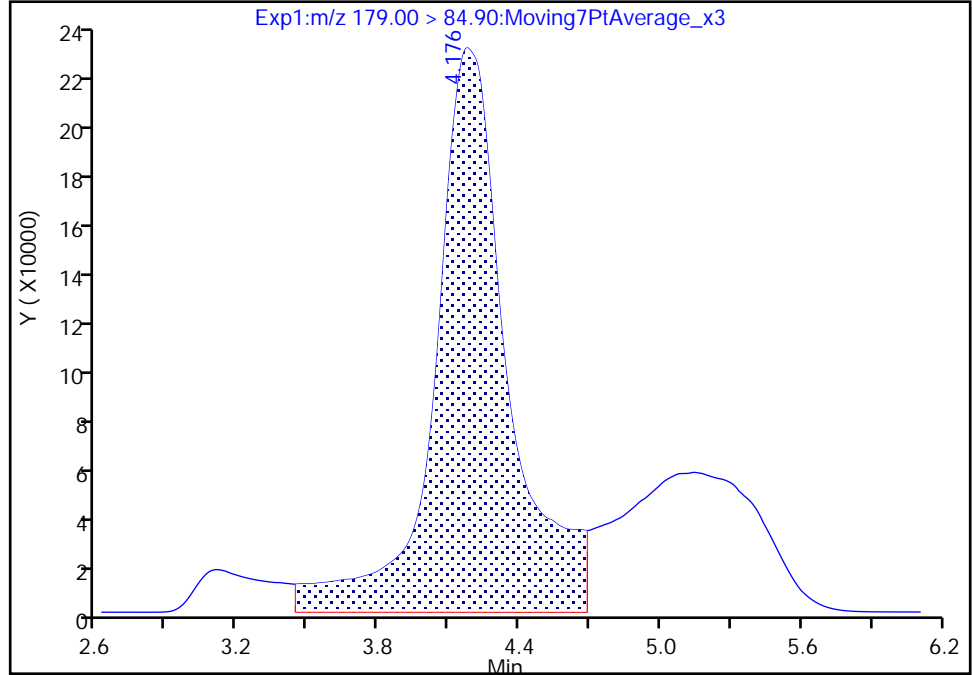
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

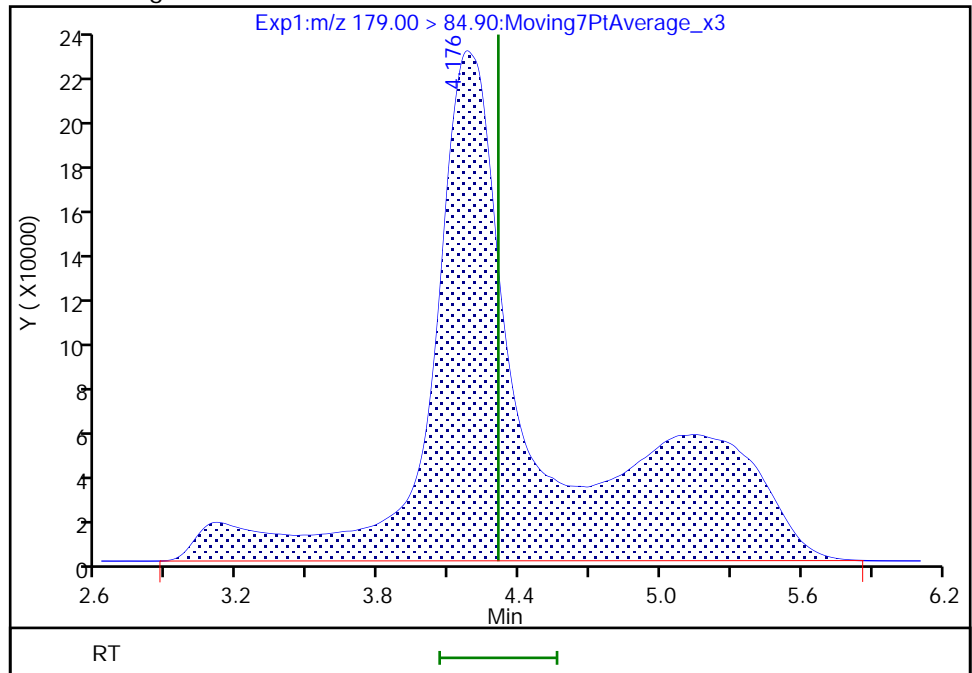
RT: 4.18  
Area: 5029426  
Amount: 0.347995  
Amount Units: ng/ml

Processing Integration Results



RT: 4.18  
Area: 7781733  
Amount: 0.497802  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:57:42  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

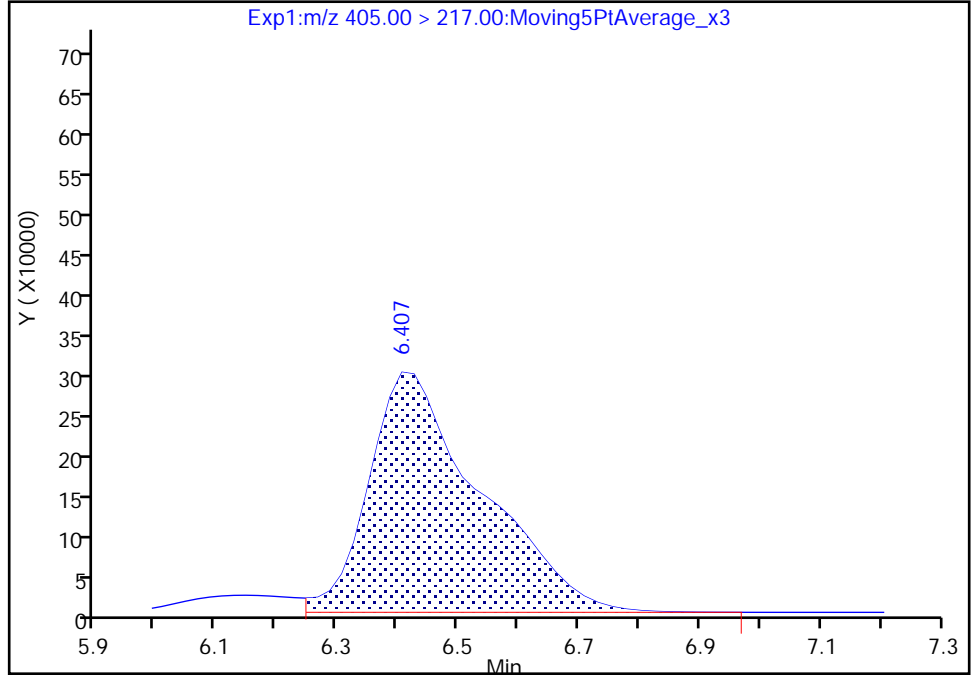
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

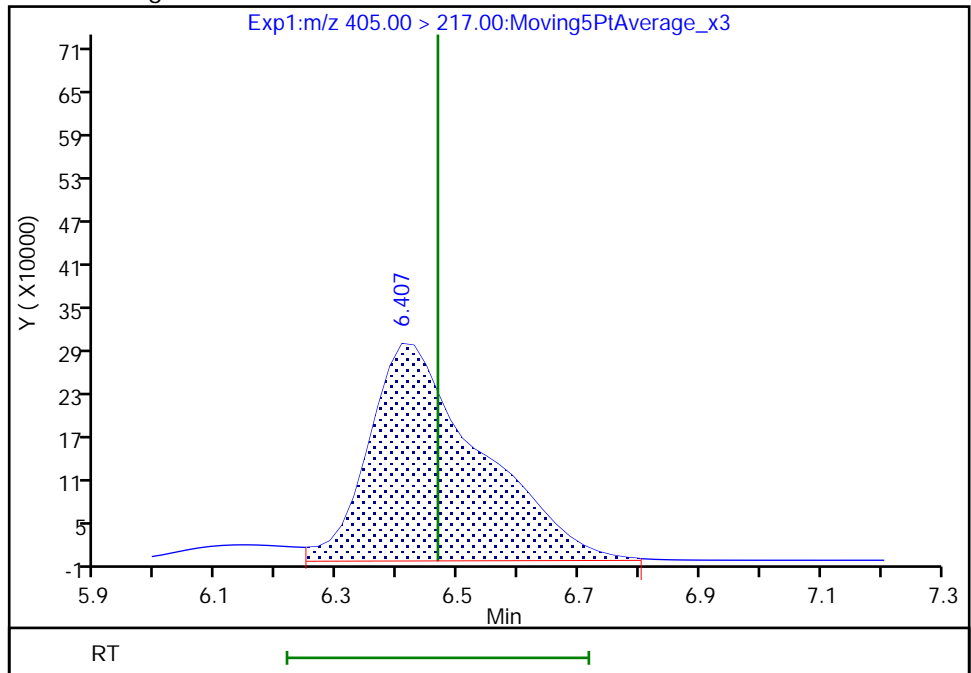
RT: 6.41  
Area: 3831997  
Amount: 0.479871  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 3854936  
Amount: 0.517548  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:53:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

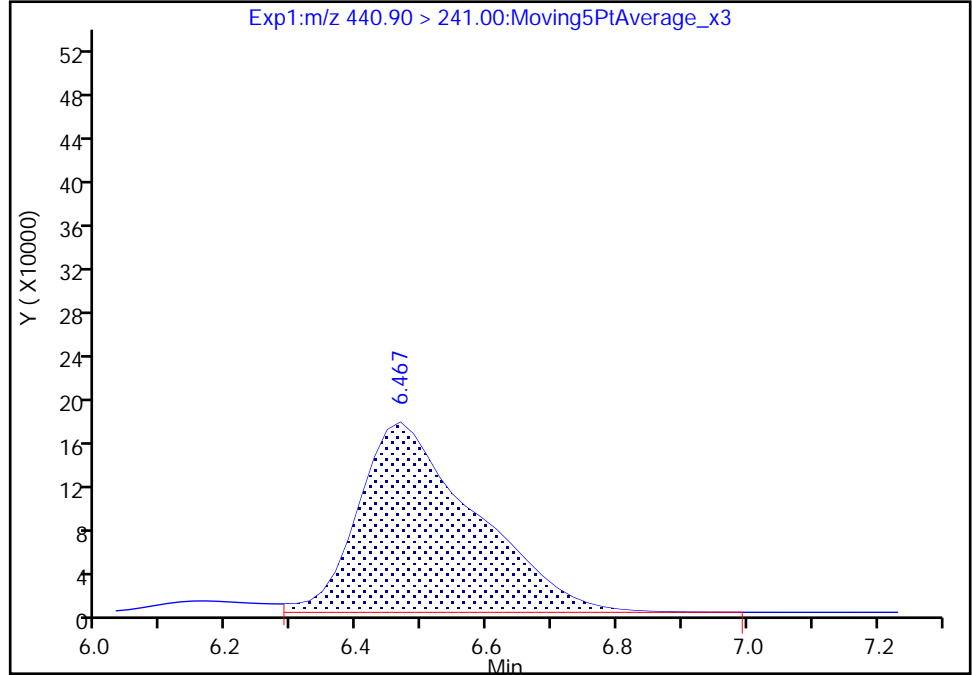
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

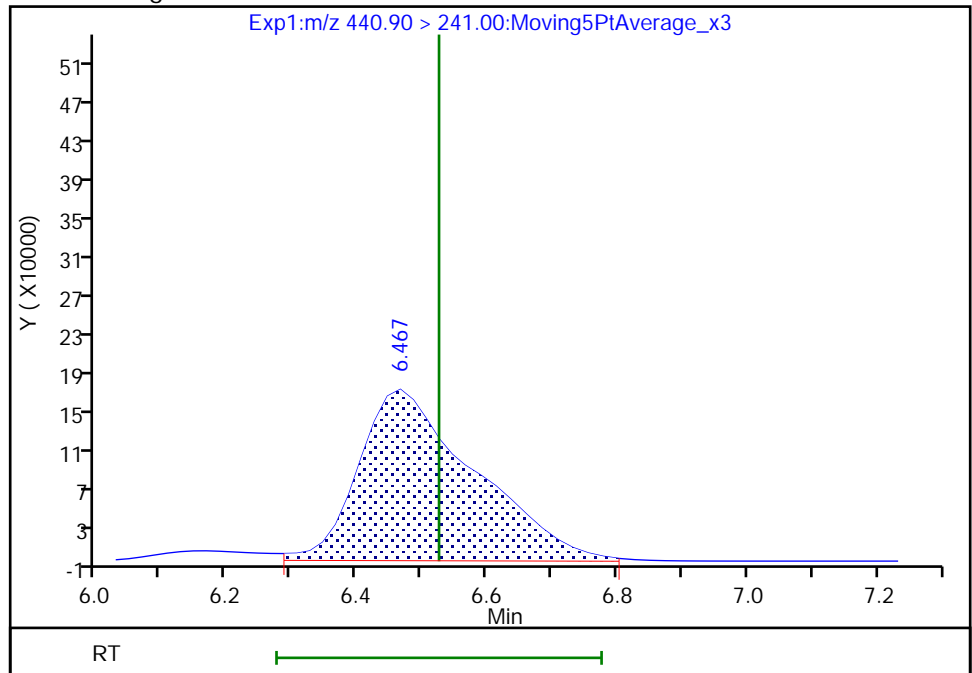
RT: 6.47  
Area: 2162774  
Amount: 0.499090  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 2146515  
Amount: 0.535630  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:53:42  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

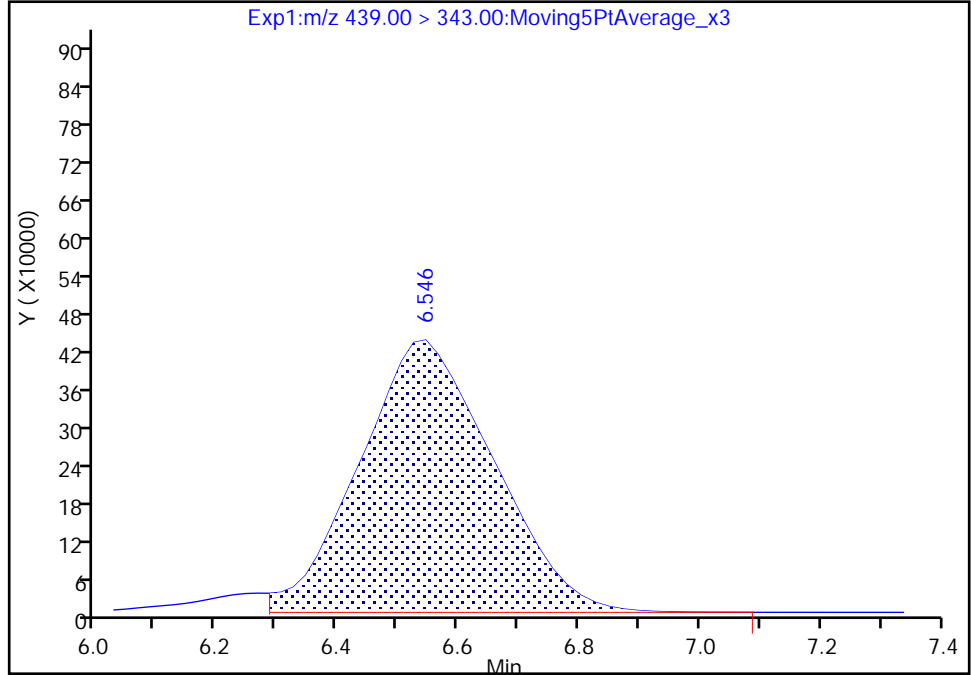
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

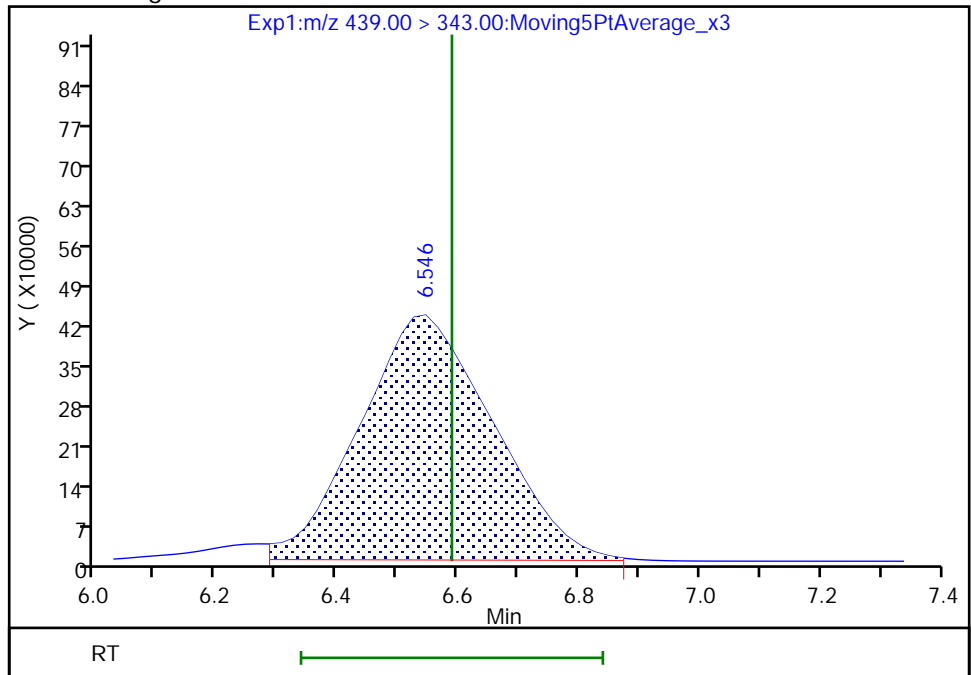
RT: 6.55  
Area: 6662251  
Amount: 0.490312  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 6574951  
Amount: 0.502975  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerese, 07-Feb-2021 13:53:46  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

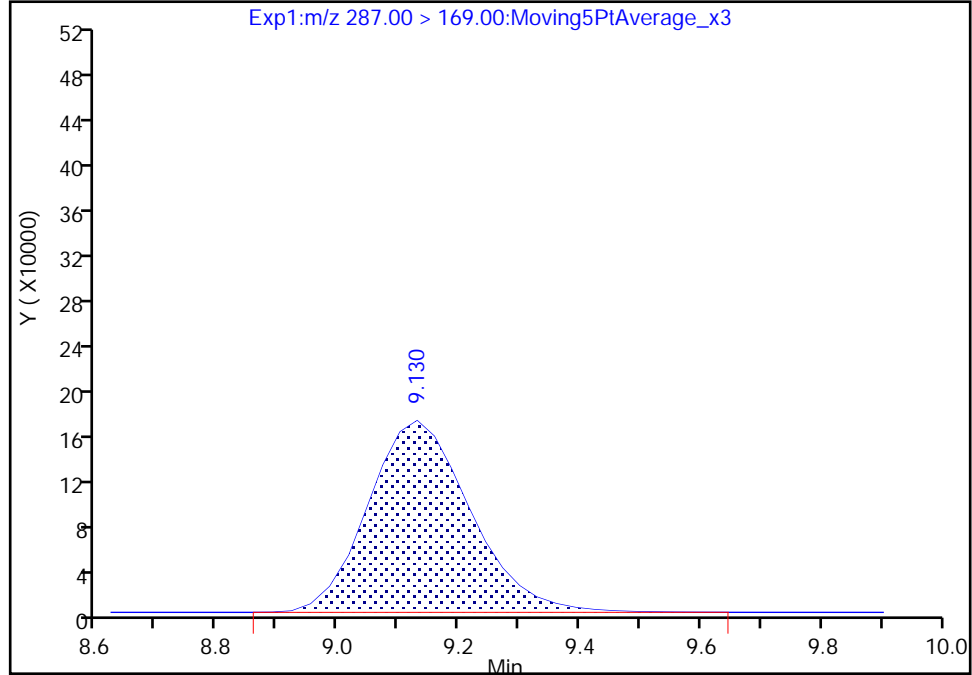
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**

Signal: 1

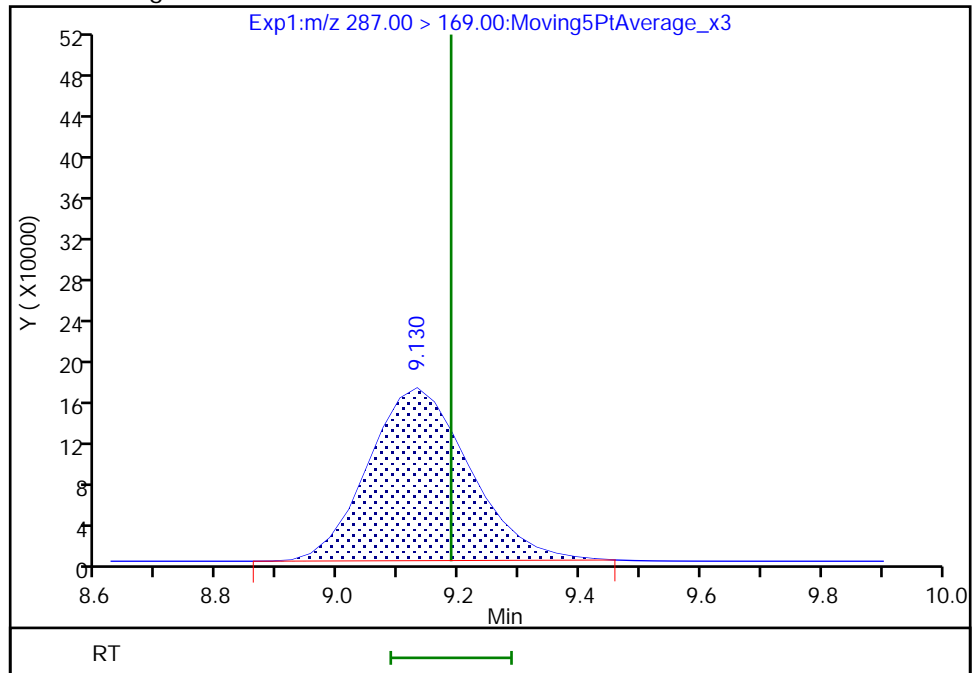
RT: 9.13  
Area: 1990621  
Amount: 0.236222  
Amount Units: ng/ml

Processing Integration Results



RT: 9.13  
Area: 1965730  
Amount: 0.233837  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:35  
Audit Action: Manually Integrated

Audit Reason: Analyst error  
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Eurofins TestAmerica, Sacramento

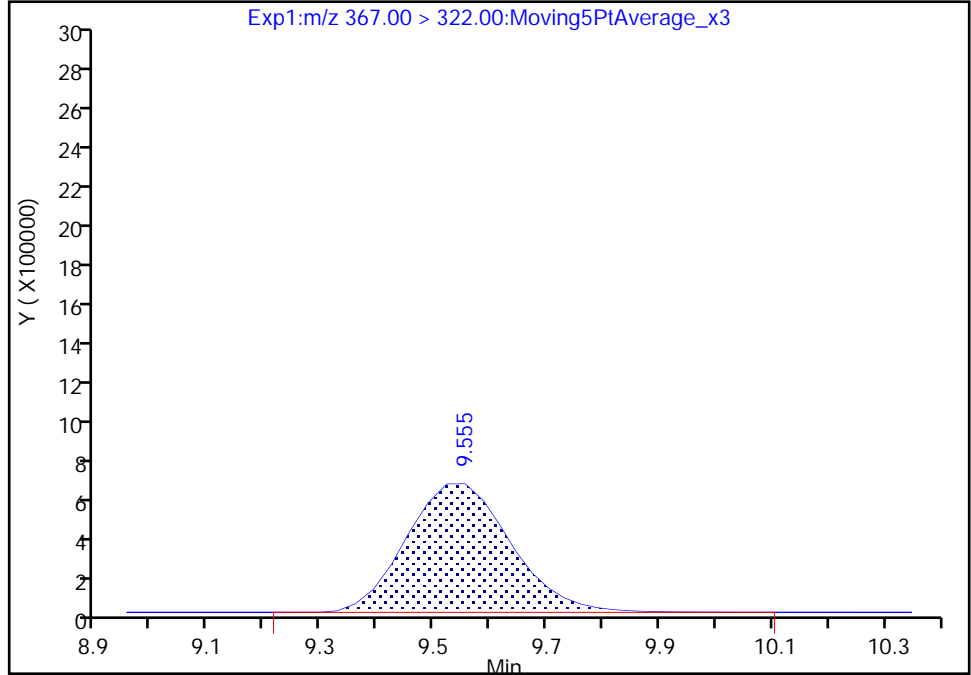
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Injection Date: 06-Feb-2021 15:37:48 Instrument ID: A12  
Lims ID: IC STD 9 (41)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

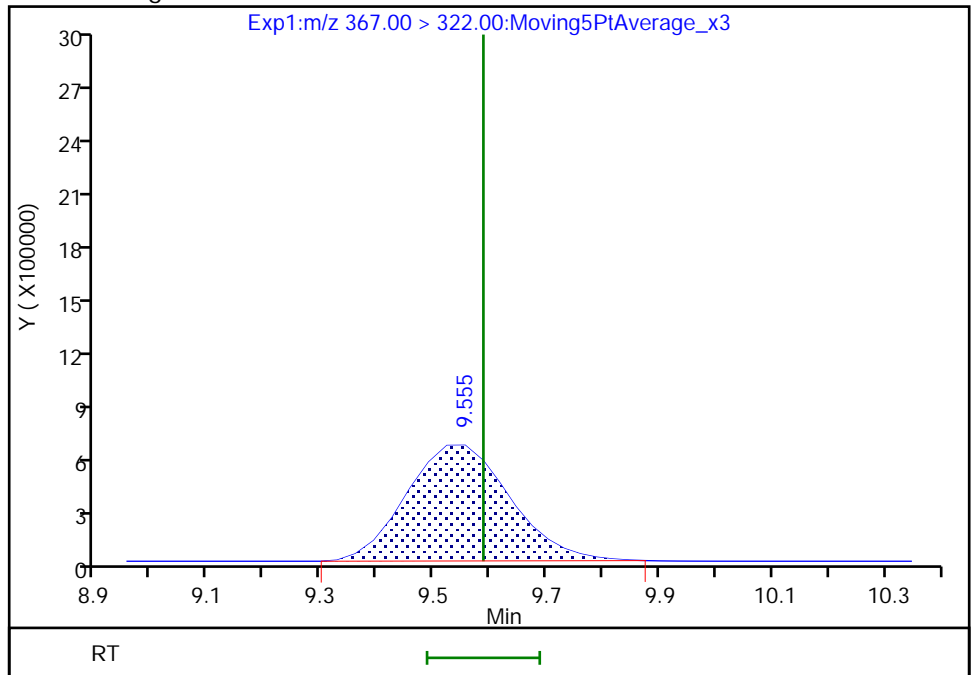
RT: 9.56  
Area: 8453786  
Amount: 0.201695  
Amount Units: ng/ml

Processing Integration Results



RT: 9.56  
Area: 8380476  
Amount: 0.193372  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:39  
Audit Action: Manually Integrated

Audit Reason: Analyst error  
Page 275 of 540

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Lims ID: IC STD 10 (40)  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 06-Feb-2021 15:55:23 ALS Bottle#: 15 Worklist Smp#: 13  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (40)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:07:41 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerase Date: 07-Feb-2021 11:58:16

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.284	4.309	-0.025		16330441	1.04		104	1050	M
2 R-EVE										
405.00 > 217.00	6.427	6.466	-0.039		9272698	1.24		124	118100	
3 R-PSDA										
440.90 > 241.00	6.466	6.526	-0.060		5471387	1.37		137	63674	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.590	-0.044		15746941	1.20		120	167777	
23 PMPA										
229.00 > 185.00	6.779	6.803	-0.024		23889439	0.9752		97.5	15897	
5 NVHOS										
297.00 > 135.00	7.158	7.182	-0.024		10533769	1.11		111	153505	
6 PFO2HxA										
245.00 > 85.00	7.706	7.768	-0.062		18495204	1.00		99.9	99635	
22 PEPA										
278.90 > 234.90	8.295	8.330	-0.035		8990578	0.9572		95.7	32906	
7 PES										
314.90 > 135.00	8.555	8.622	-0.067		36523789	1.01		101	560322	
8 PFECA B										
295.00 > 201.00	8.797	8.827	-0.030		13550668	0.9101		91.0	218875	
9 PFO3OA										
310.90 > 85.00	9.017	9.074	-0.057		6230046	0.8403		84.0	127099	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.187	-0.057		2017715	0.2400		96.0	35069	M
11 HPFO-DA										
285.00 > 169.00	9.130	9.187	-0.057	1.000	8968491	0.9716		97.2	192628	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		52340803	0.6699		67.0	314089	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.587	-0.032		7133507	0.1646		65.8	56313	M
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.587	-0.064		75397902	0.7572		75.7	158527	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	30593638	0.9262	Target=0.00	92.6	83030	
363.00 > 169.00	9.555	9.587	-0.032	1.000	9453003		3.24(0.00-0.00)	92.6	74197	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		31669748	0.8806		88.1	304771	
17 PFECA G										
378.90 > 184.90	9.674	9.731	-0.057		6737803	0.6247		62.5	186669	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		7269259	0.7856		78.6	36587	
19 PS Acid										
443.00 > 146.90	9.874	9.932	-0.058		12904329	0.8175		81.8	221003	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		39877396	0.6029		60.3	302632	
21 TAF										
442.90 > 85.00	10.399	10.449	-0.050		4610657	0.6147		61.5	3754	

**QC Flag Legend**

Processing Flags

Review Flags

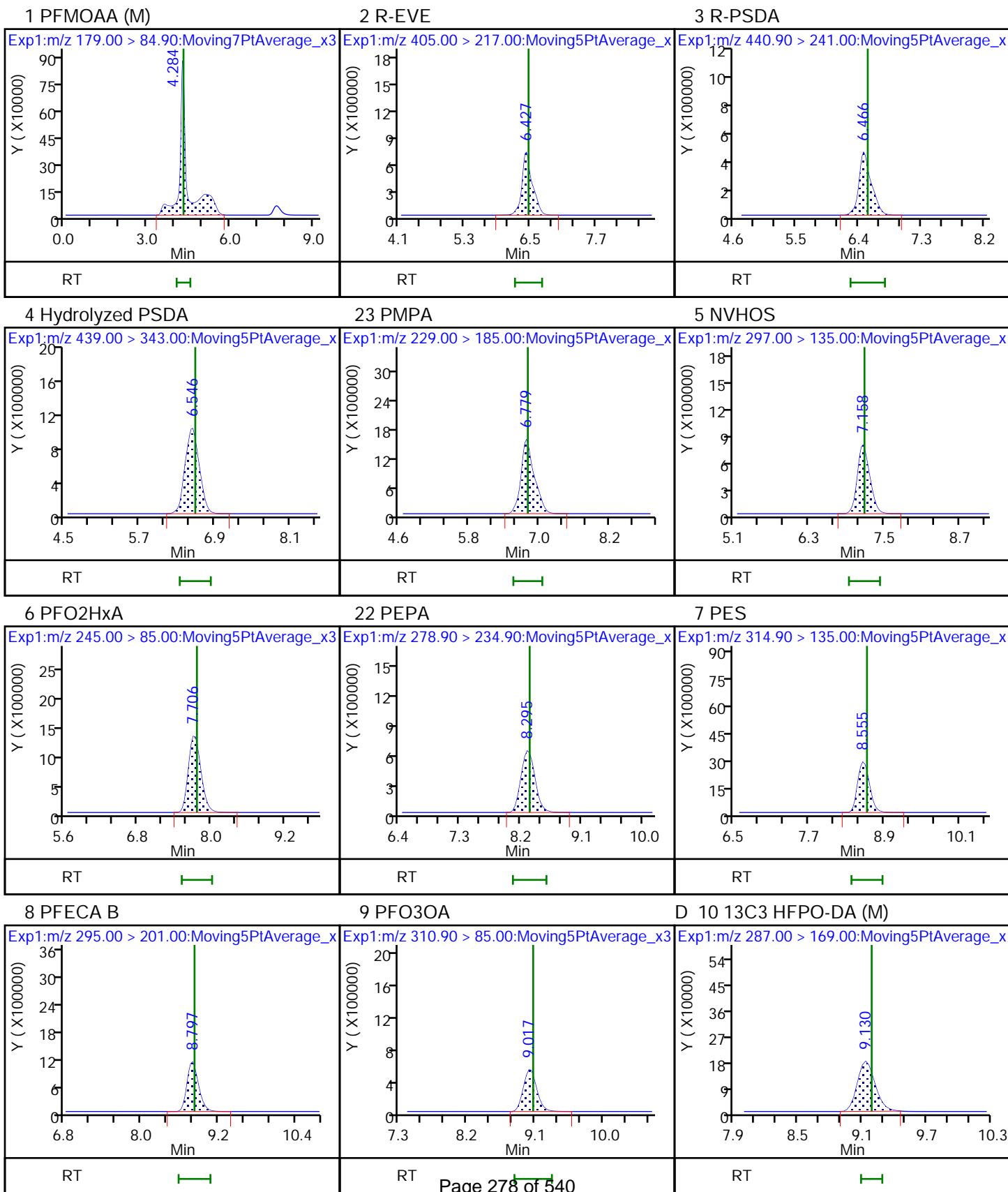
M - Manually Integrated

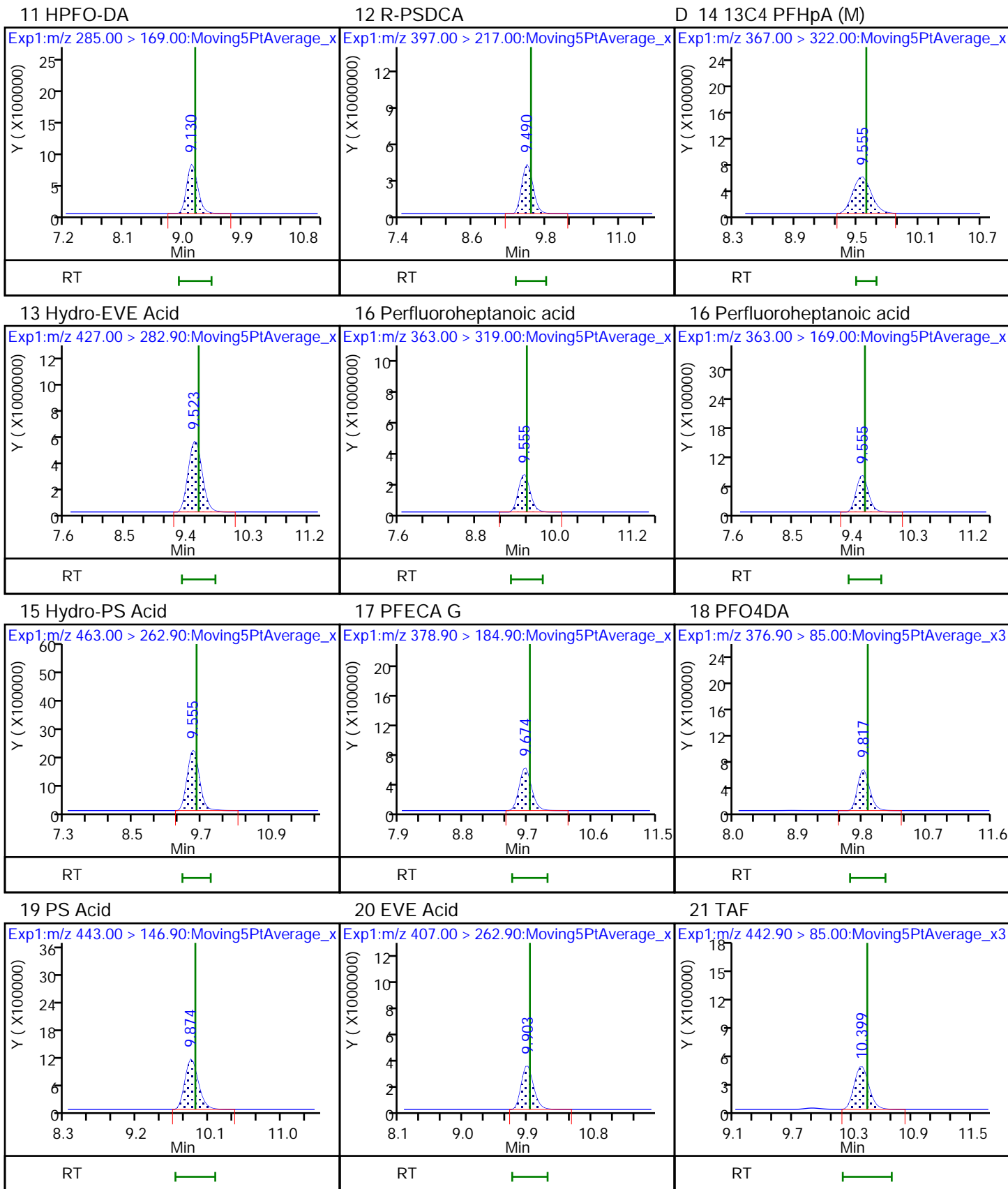
**Reagents:**

LCTB3\_LLSTD10\_00040

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

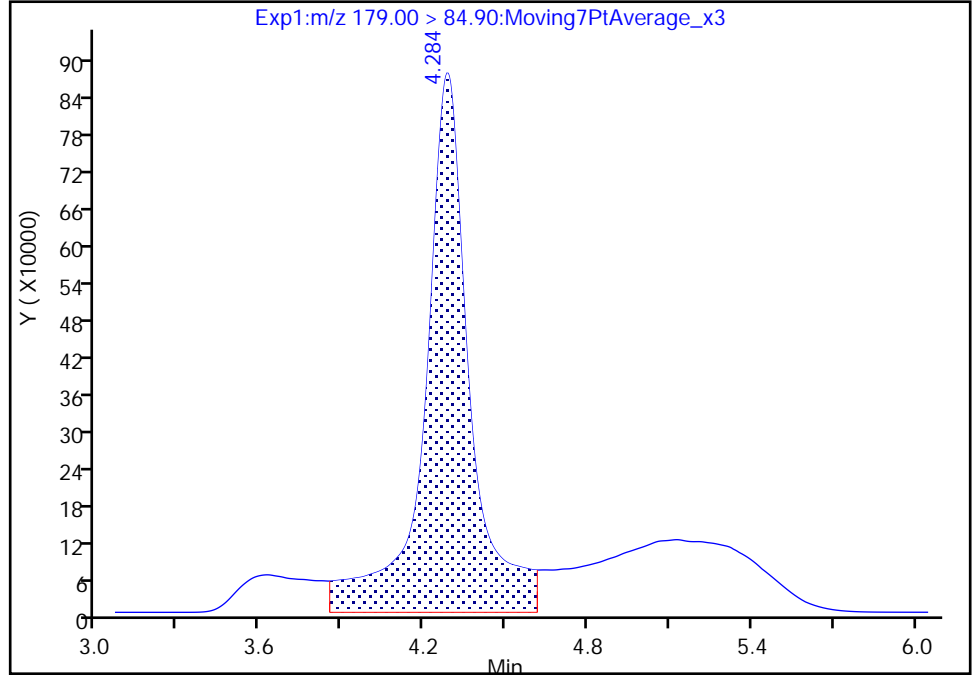
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
Injection Date: 06-Feb-2021 15:55:23 Instrument ID: A12  
Lims ID: IC STD 10 (40)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

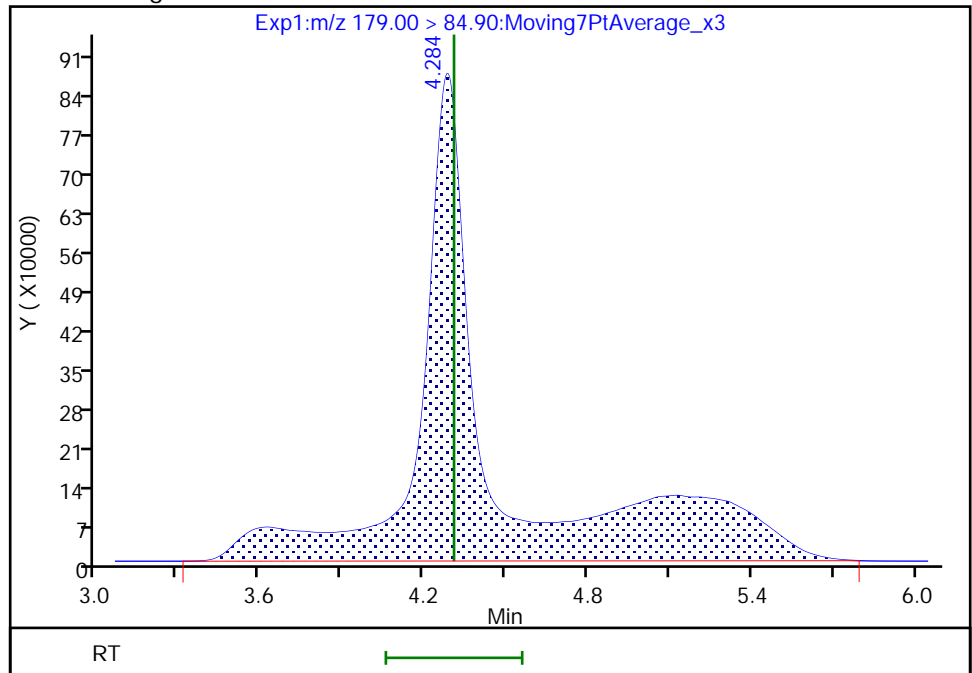
RT: 4.28  
Area: 10038917  
Amount: 0.669126  
Amount Units: ng/ml

Processing Integration Results



RT: 4.28  
Area: 16330441  
Amount: 1.044668  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:58:08  
Audit Action: Manually Integrated

Audit Reason: Other  
Page 281 of 540

Eurofins TestAmerica, Sacramento

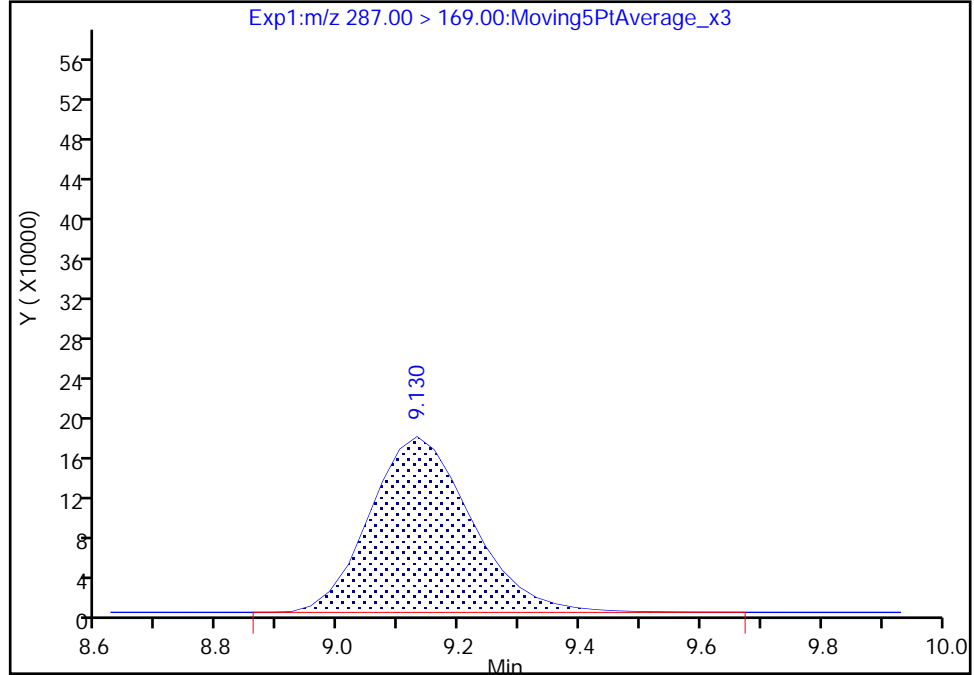
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
Injection Date: 06-Feb-2021 15:55:23 Instrument ID: A12  
Lims ID: IC STD 10 (40)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

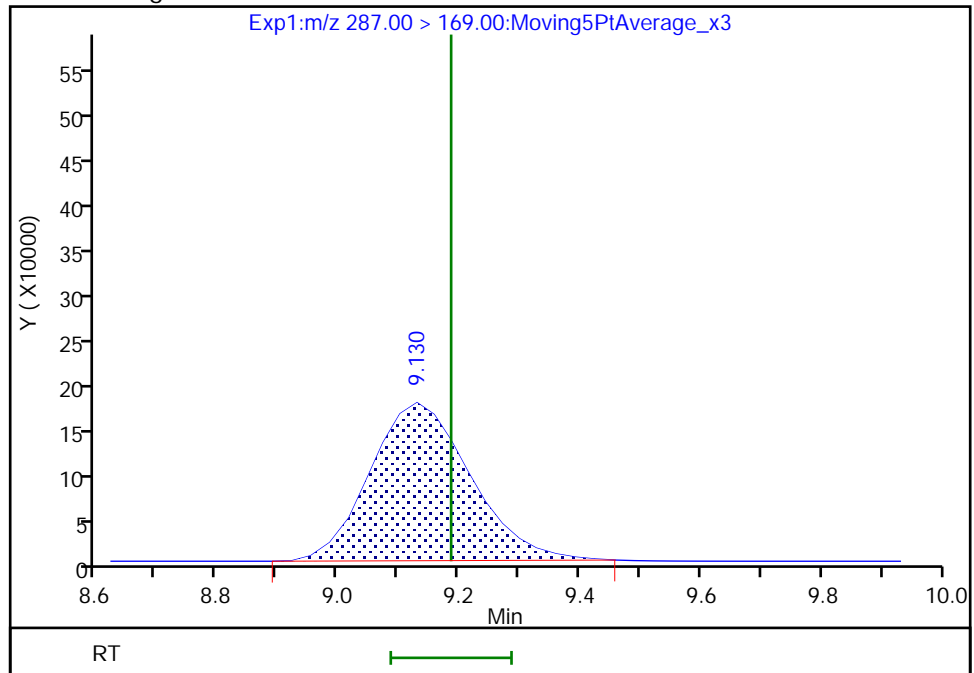
RT: 9.13  
Area: 2044081  
Amount: 0.242853  
Amount Units: ng/ml

Processing Integration Results



RT: 9.13  
Area: 2017715  
Amount: 0.240021  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 13:59:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

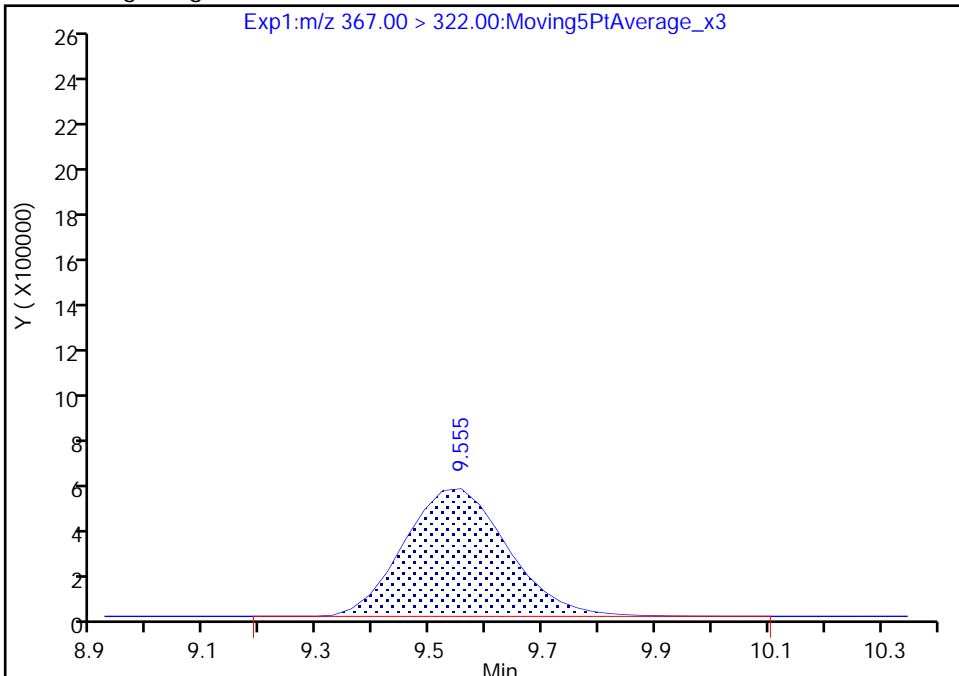
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
Injection Date: 06-Feb-2021 15:55:23 Instrument ID: A12  
Lims ID: IC STD 10 (40)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

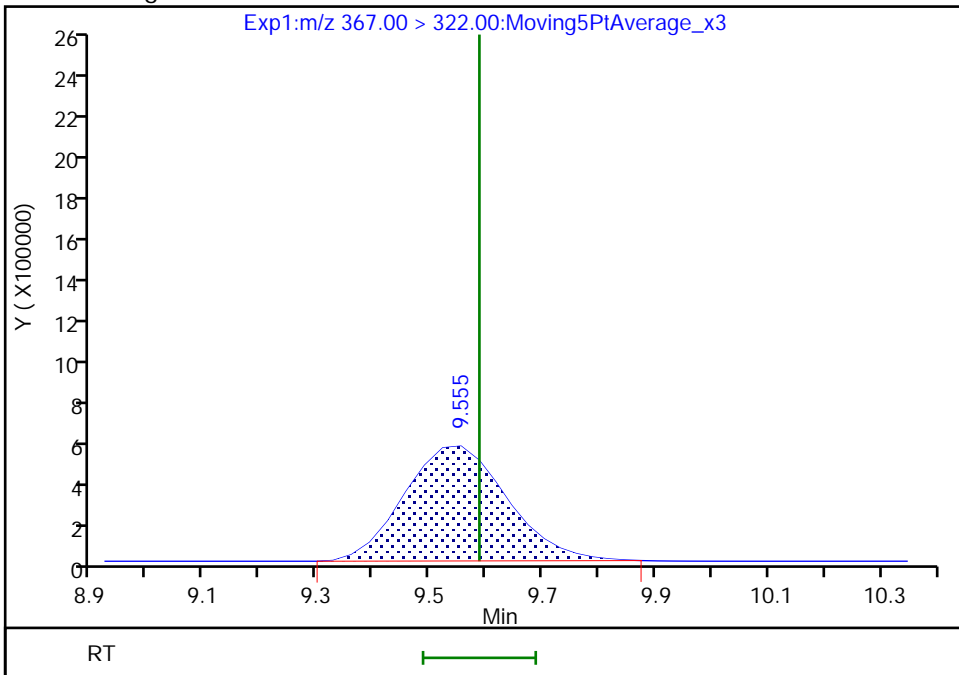
RT: 9.55  
Area: 7199101  
Amount: 0.171880  
Amount Units: ng/ml

Processing Integration Results



RT: 9.55  
Area: 7133507  
Amount: 0.164599  
Amount Units: ng/ml

Manual Integration Results



**Calibration**

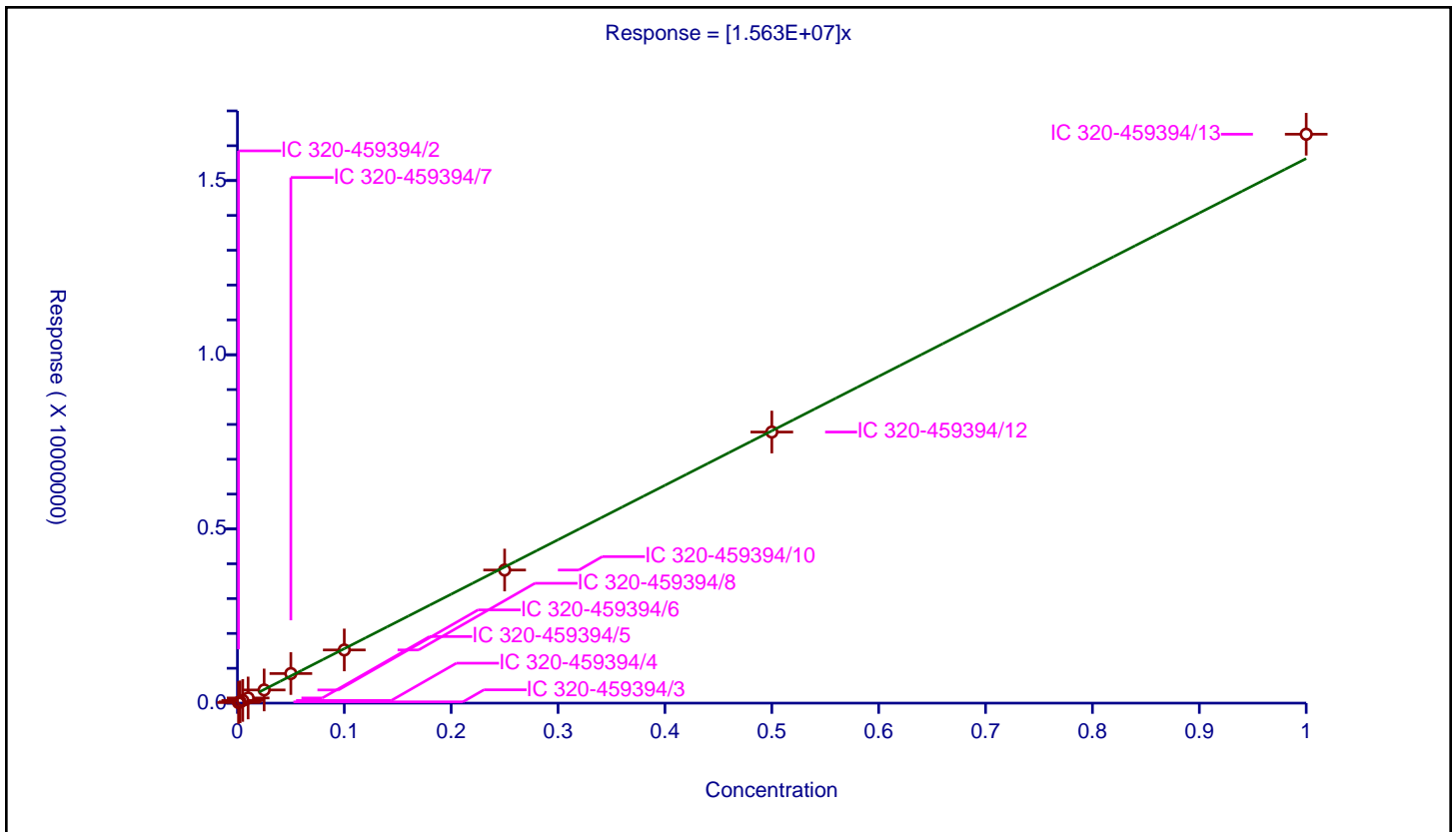
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.563E+07

Error Coefficients	
Standard Error:	236000
Relative Standard Error:	4.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	16642.0			16642000.0	Y
2	IC 320-459394/3	0.0025	37389.0			14955600.0	Y
3	IC 320-459394/4	0.005	76819.0			15363800.0	Y
4	IC 320-459394/5	0.01	148070.0			14807000.0	Y
5	IC 320-459394/6	0.025	378289.0			15131560.0	Y
6	IC 320-459394/7	0.05	849213.0			16984260.0	Y
7	IC 320-459394/8	0.1	1526169.0			15261690.0	Y
8	IC 320-459394/10	0.25	3820521.0			15282084.0	Y
9	IC 320-459394/12	0.5	7781733.0			15563466.0	Y
10	IC 320-459394/13	1.0	16330441.0			16330441.0	Y



Calibration

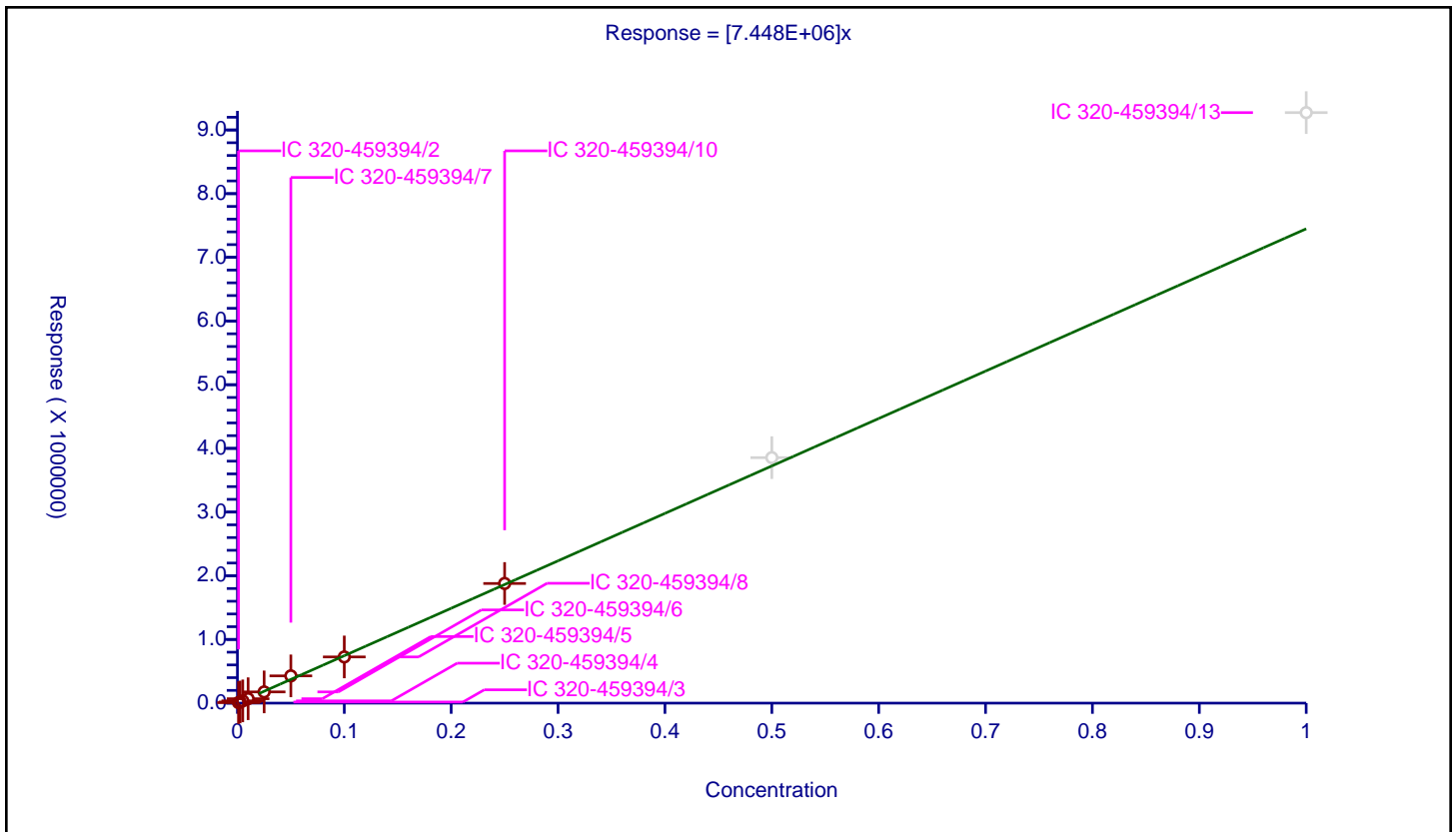
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.448E+06

Error Coefficients	
Standard Error:	23600
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	8168.0			8168000.0	Y
2	IC 320-459394/3	0.0025	17569.0			7027600.0	Y
3	IC 320-459394/4	0.005	35384.0			7076800.0	Y
4	IC 320-459394/5	0.01	69248.0			6924800.0	Y
5	IC 320-459394/6	0.025	176396.0			7055840.0	Y
6	IC 320-459394/7	0.05	428175.0			8563500.0	Y
7	IC 320-459394/8	0.1	725507.0			7255070.0	Y
8	IC 320-459394/10	0.25	1879024.0			7516096.0	Y
9	IC 320-459394/12	0.5	3854936.0			7709872.0	N
10	IC 320-459394/13	1.0	9272698.0			9272698.0	N



Calibration

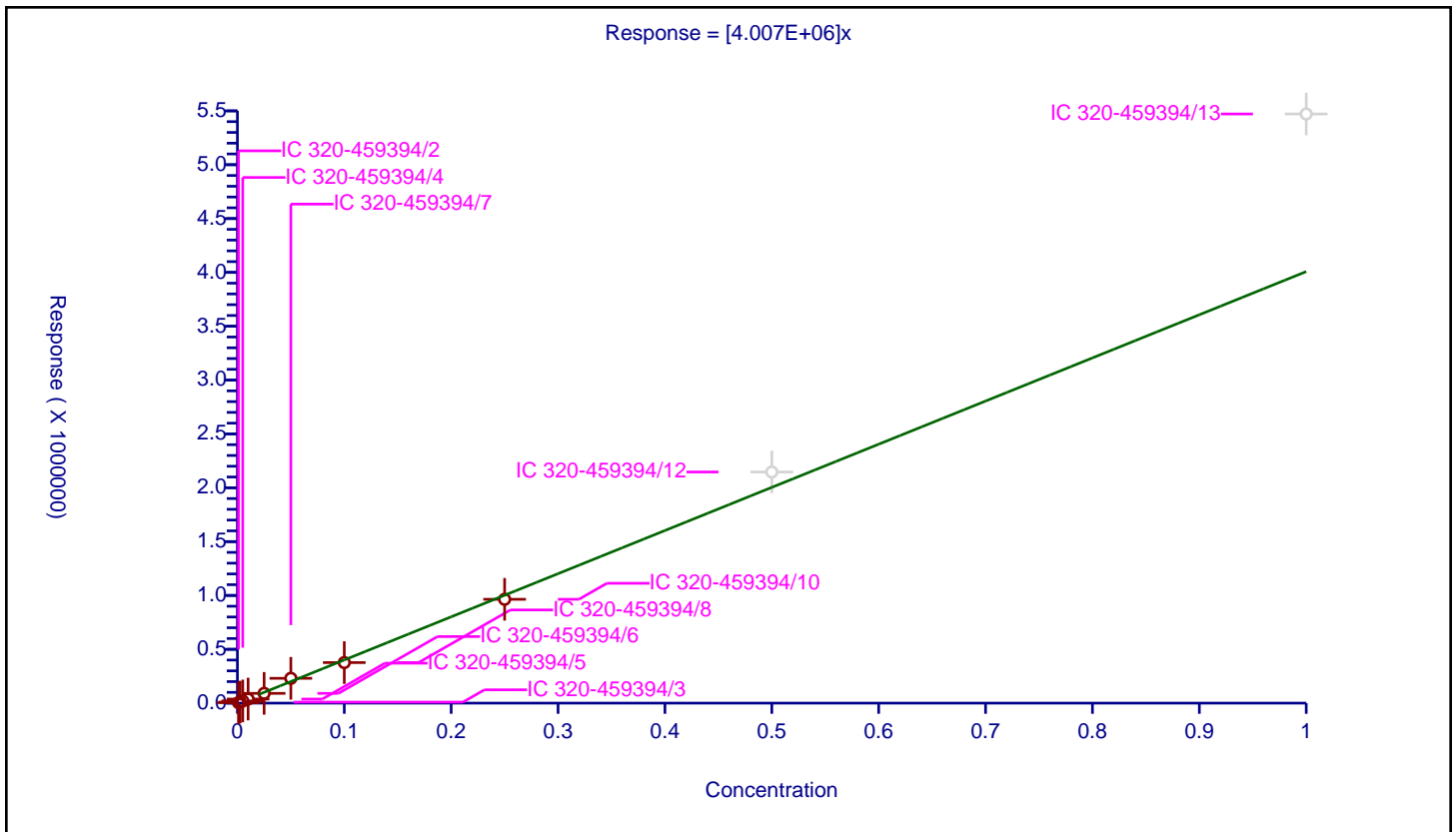
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.007E+06

Error Coefficients	
Standard Error:	20700
Relative Standard Error:	9.0
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	4507.0			4507000.0	Y
2	IC 320-459394/3	0.0025	9621.0			3848400.0	Y
3	IC 320-459394/4	0.005	20269.0			4053800.0	Y
4	IC 320-459394/5	0.01	37890.0			3789000.0	Y
5	IC 320-459394/6	0.025	90748.0			3629920.0	Y
6	IC 320-459394/7	0.05	230432.0			4608640.0	Y
7	IC 320-459394/8	0.1	376606.0			3766060.0	Y
8	IC 320-459394/10	0.25	964209.0			3856836.0	Y
9	IC 320-459394/12	0.5	2146515.0			4293030.0	N
10	IC 320-459394/13	1.0	5471387.0			5471387.0	N



**Calibration**

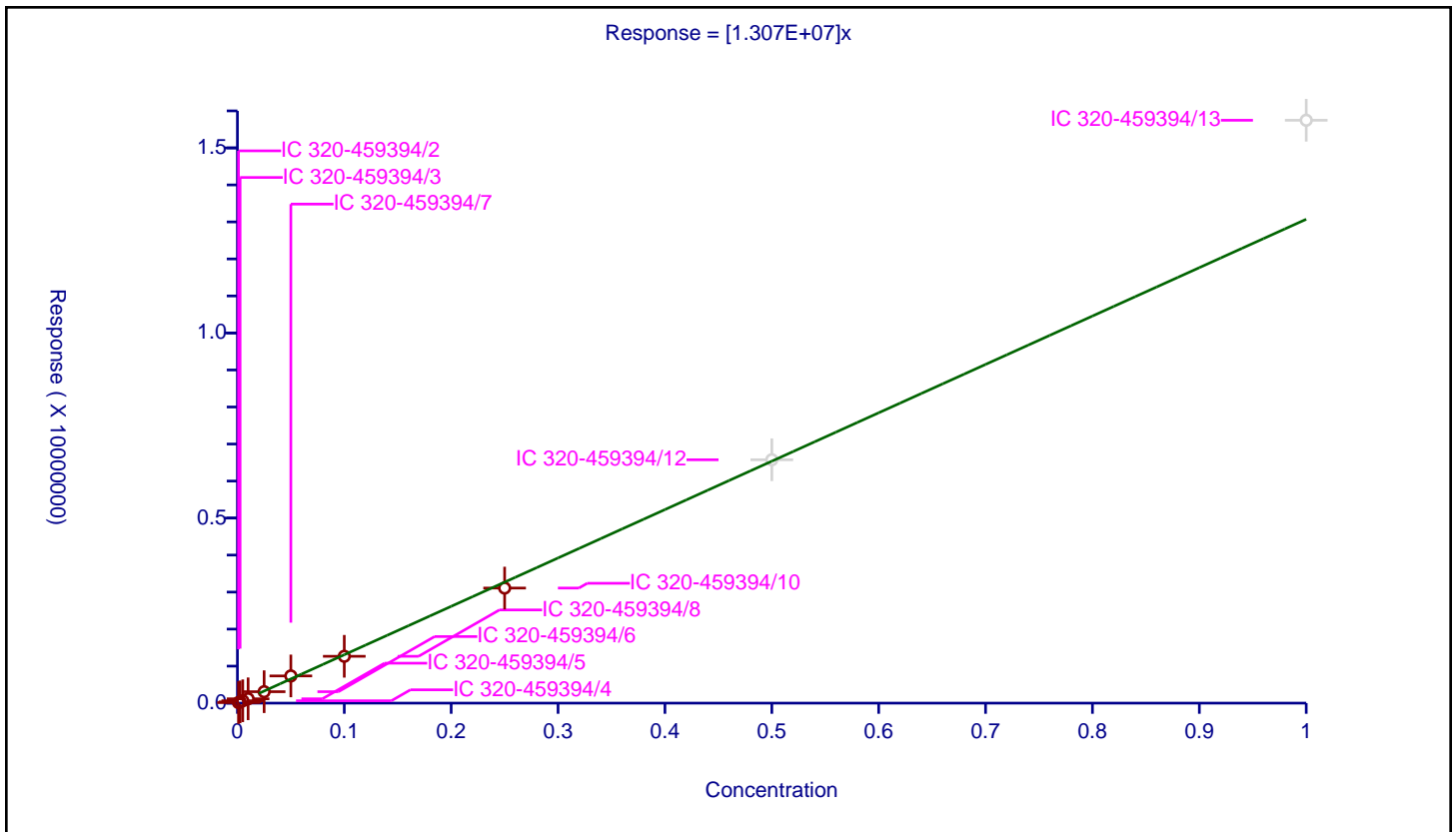
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.307E+07

Error Coefficients	
Standard Error:	69800
Relative Standard Error:	8.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	14582.0			14582000.0	Y
2	IC 320-459394/3	0.0025	33384.0			13353600.0	Y
3	IC 320-459394/4	0.005	64013.0			12802600.0	Y
4	IC 320-459394/5	0.01	117049.0			11704900.0	Y
5	IC 320-459394/6	0.025	308734.0			12349360.0	Y
6	IC 320-459394/7	0.05	734658.0			14693160.0	Y
7	IC 320-459394/8	0.1	1265504.0			12655040.0	Y
8	IC 320-459394/10	0.25	3109106.0			12436424.0	Y
9	IC 320-459394/12	0.5	6574951.0			13149902.0	N
10	IC 320-459394/13	1.0	15746941.0			15746941.0	N



Calibration

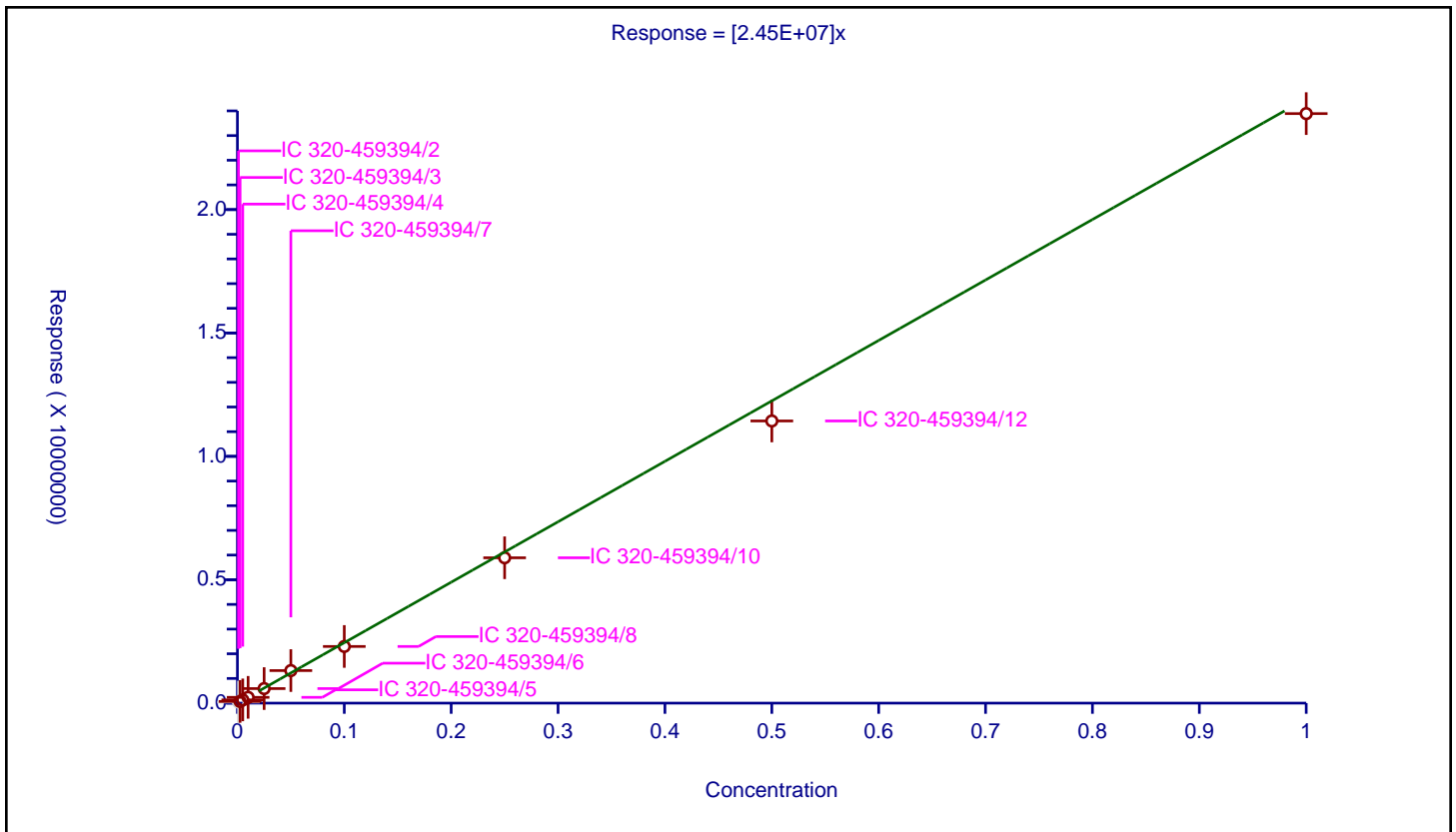
/ PMPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.45E+07

Error Coefficients	
Standard Error:	374000
Relative Standard Error:	6.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	45122.0			45122000.0	N
2	IC 320-459394/3	0.0025	68421.0			27368400.0	Y
3	IC 320-459394/4	0.005	131622.0			26324400.0	Y
4	IC 320-459394/5	0.01	235047.0			23504700.0	Y
5	IC 320-459394/6	0.025	590110.0			23604400.0	Y
6	IC 320-459394/7	0.05	1318979.0			26379580.0	Y
7	IC 320-459394/8	0.1	2296676.0			22966760.0	Y
8	IC 320-459394/10	0.25	5890575.0			23562300.0	Y
9	IC 320-459394/12	0.5	11434411.0			22868822.0	Y
10	IC 320-459394/13	1.0	23889439.0			23889439.0	Y





Calibration

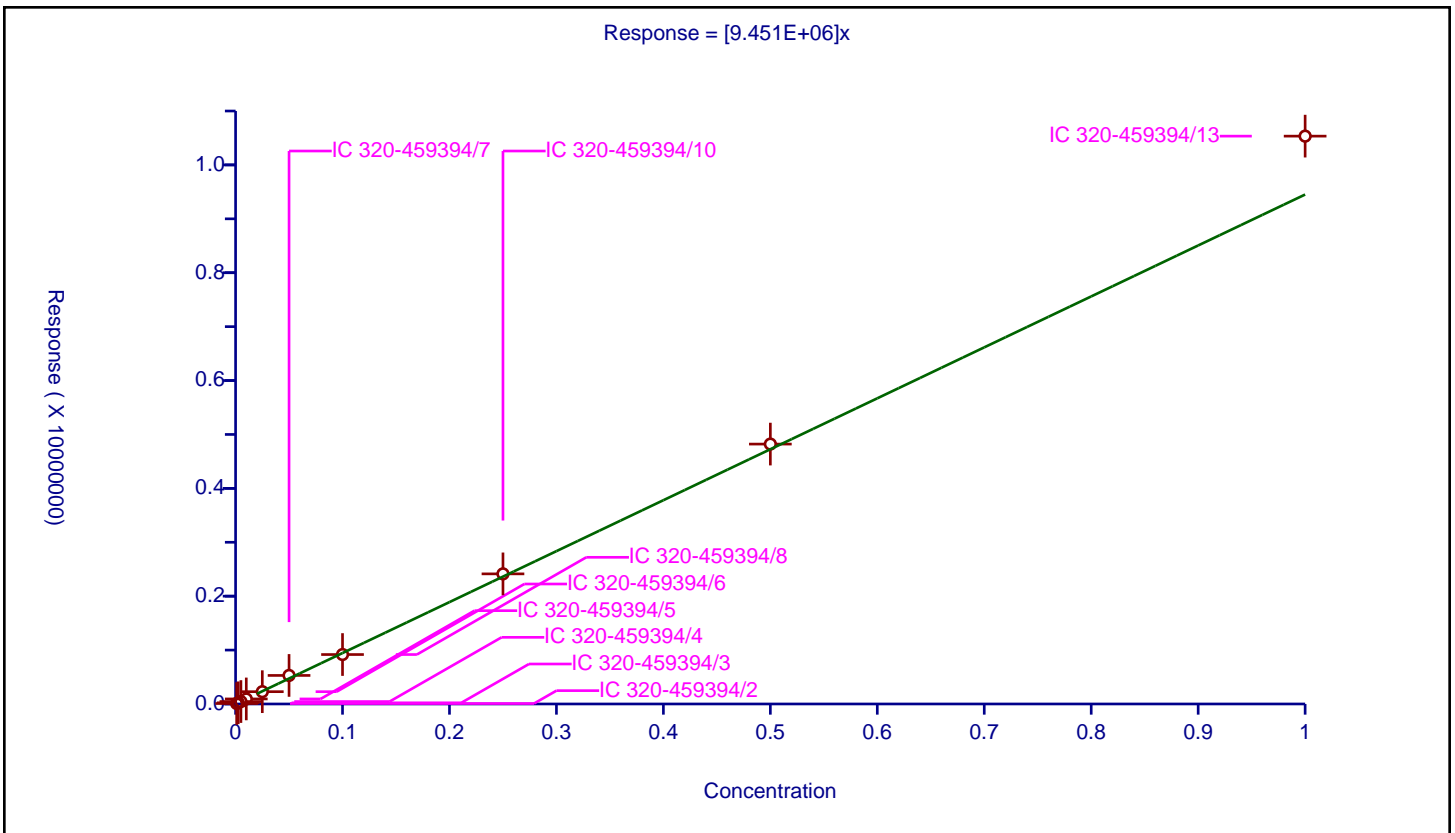
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.451E+06

Error Coefficients	
Standard Error:	363000
Relative Standard Error:	7.1
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	8583.0			8583000.0	Y
2	IC 320-459394/3	0.0025	22040.0			8816000.0	Y
3	IC 320-459394/4	0.005	45082.0			9016400.0	Y
4	IC 320-459394/5	0.01	93626.0			9362600.0	Y
5	IC 320-459394/6	0.025	228164.0			9126560.0	Y
6	IC 320-459394/7	0.05	529725.0			10594500.0	Y
7	IC 320-459394/8	0.1	917574.0			9175740.0	Y
8	IC 320-459394/10	0.25	2414037.0			9656148.0	Y
9	IC 320-459394/12	0.5	4821256.0			9642512.0	Y
10	IC 320-459394/13	1.0	10533769.0			10533769.0	Y



Calibration

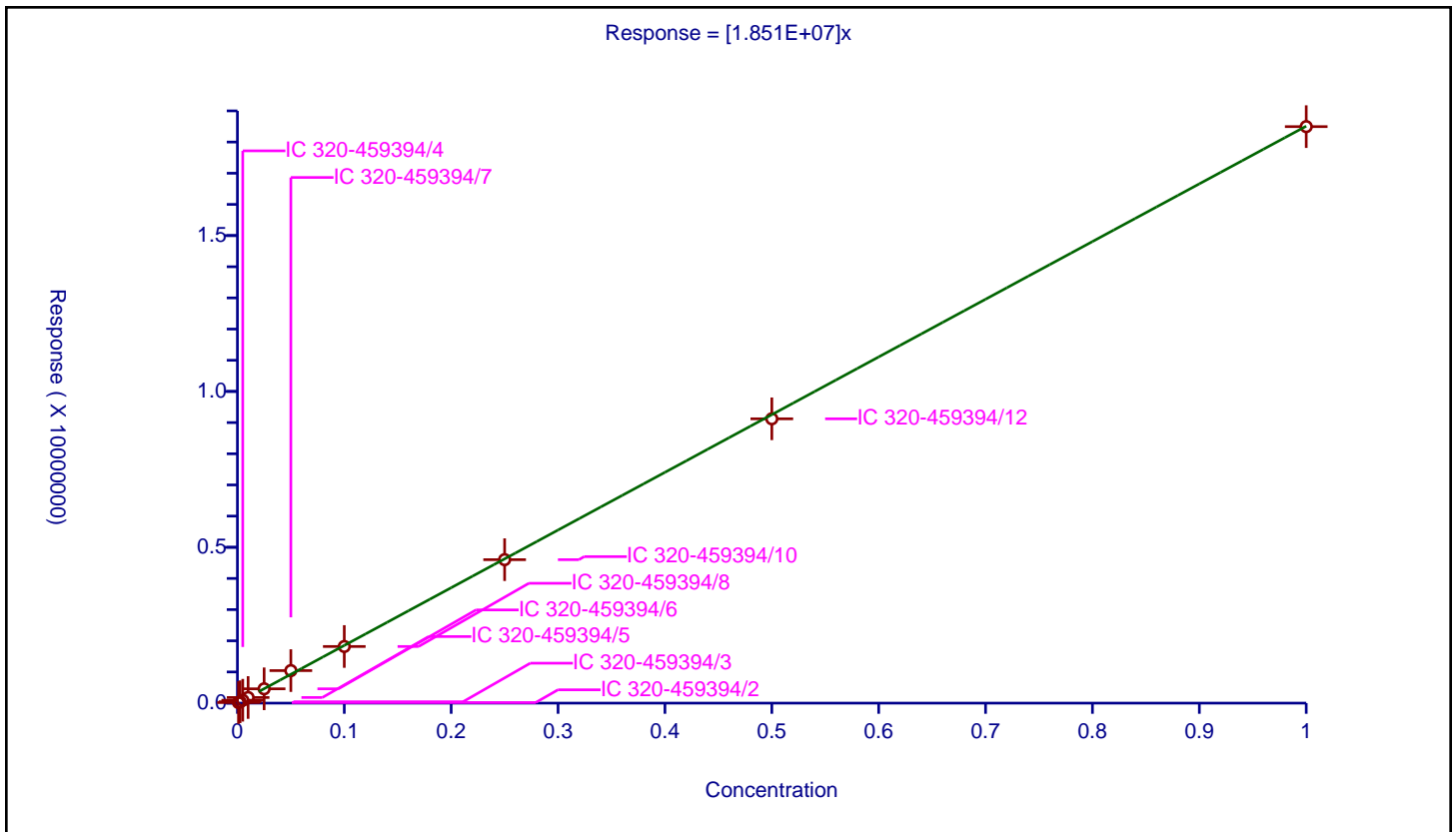
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.851E+07

Error Coefficients	
Standard Error:	61200
Relative Standard Error:	4.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	18086.0			18086000.0	Y
2	IC 320-459394/3	0.0025	44368.0			17747200.0	Y
3	IC 320-459394/4	0.005	93086.0			18617200.0	Y
4	IC 320-459394/5	0.01	180889.0			18088900.0	Y
5	IC 320-459394/6	0.025	459372.0			18374880.0	Y
6	IC 320-459394/7	0.05	1043462.0			20869240.0	Y
7	IC 320-459394/8	0.1	1817253.0			18172530.0	Y
8	IC 320-459394/10	0.25	4602670.0			18410680.0	Y
9	IC 320-459394/12	0.5	9121948.0			18243896.0	Y
10	IC 320-459394/13	1.0	18495204.0			18495204.0	Y



Calibration

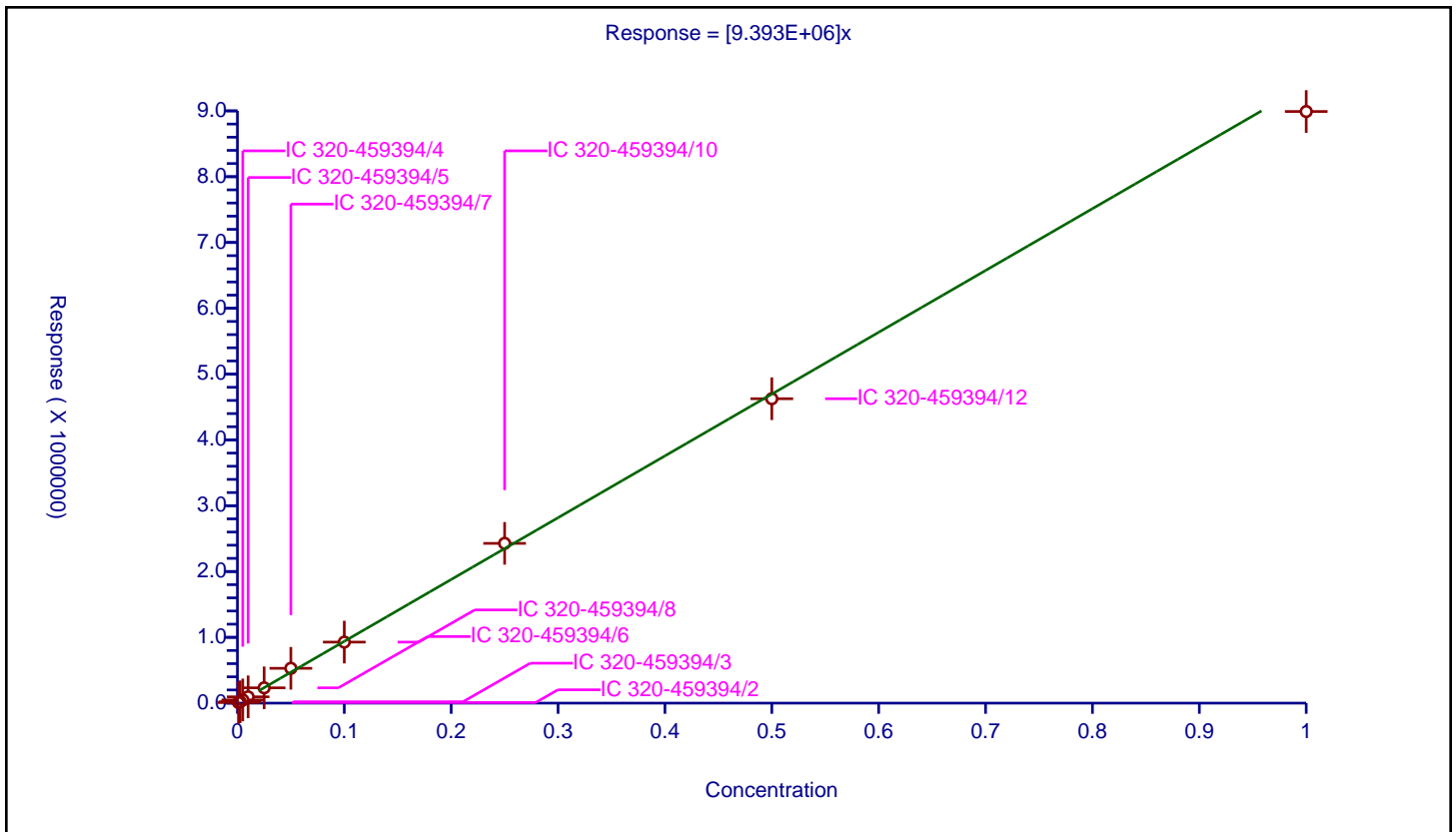
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.393E+06

Error Coefficients	
Standard Error:	140000
Relative Standard Error:	6.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	9212.0			9212000.0	Y
2	IC 320-459394/3	0.0025	20946.0			8378400.0	Y
3	IC 320-459394/4	0.005	48332.0			9666400.0	Y
4	IC 320-459394/5	0.01	95564.0			9556400.0	Y
5	IC 320-459394/6	0.025	232622.0			9304880.0	Y
6	IC 320-459394/7	0.05	529013.0			10580260.0	Y
7	IC 320-459394/8	0.1	927361.0			9273610.0	Y
8	IC 320-459394/10	0.25	2427867.0			9711468.0	Y
9	IC 320-459394/12	0.5	4625964.0			9251928.0	Y
10	IC 320-459394/13	1.0	8990578.0			8990578.0	Y



Calibration

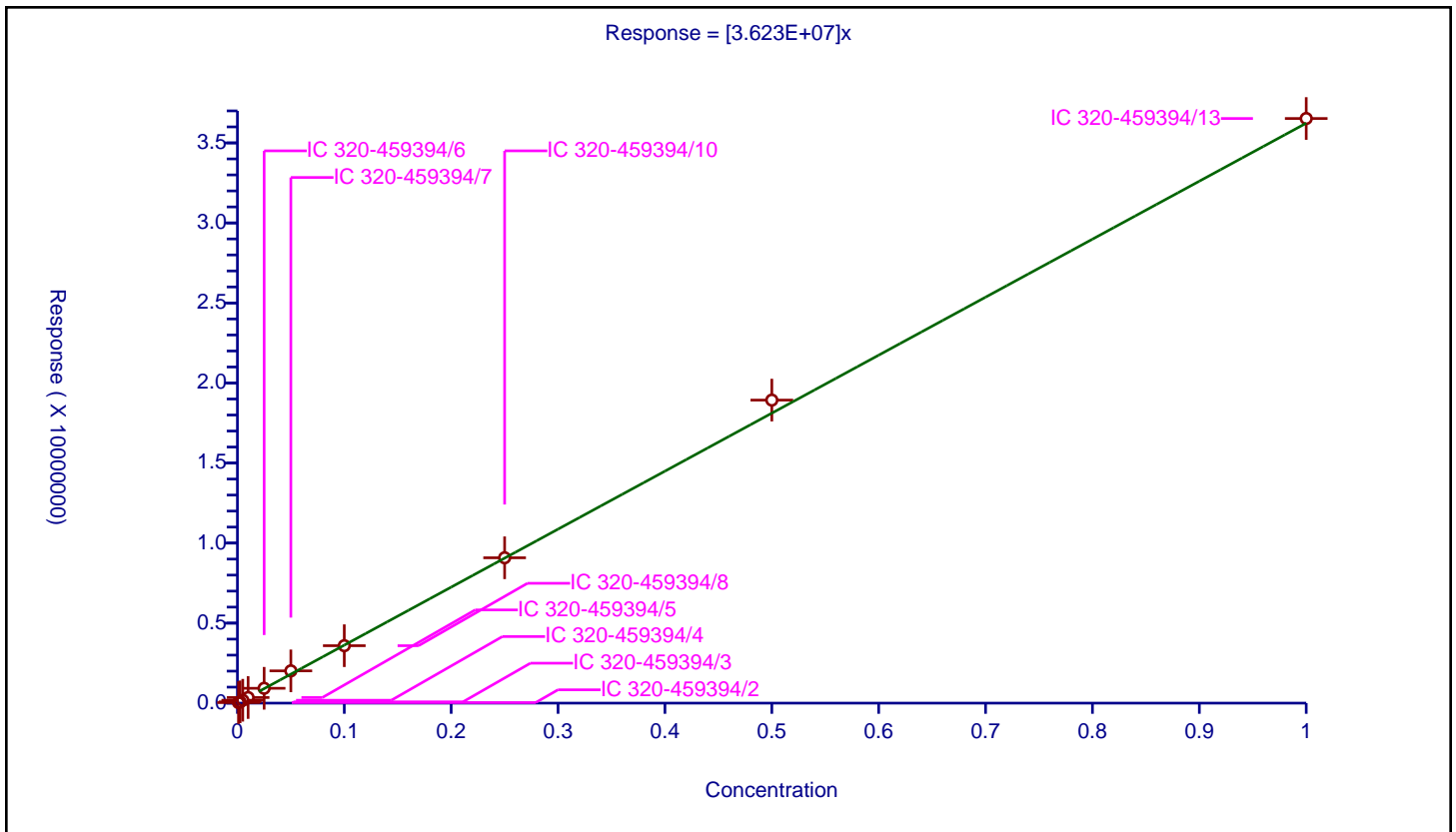
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.623E+07

Error Coefficients	
Standard Error:	297000
Relative Standard Error:	5.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	34612.0			34612000.0	Y
2	IC 320-459394/3	0.0025	81222.0			32488800.0	Y
3	IC 320-459394/4	0.005	181071.0			36214200.0	Y
4	IC 320-459394/5	0.01	349959.0			34995900.0	Y
5	IC 320-459394/6	0.025	927598.0			37103920.0	Y
6	IC 320-459394/7	0.05	2015259.0			40305180.0	Y
7	IC 320-459394/8	0.1	3588569.0			35885690.0	Y
8	IC 320-459394/10	0.25	9081506.0			36326024.0	Y
9	IC 320-459394/12	0.5	18930970.0			37861940.0	Y
10	IC 320-459394/13	1.0	36523789.0			36523789.0	Y



**Calibration**

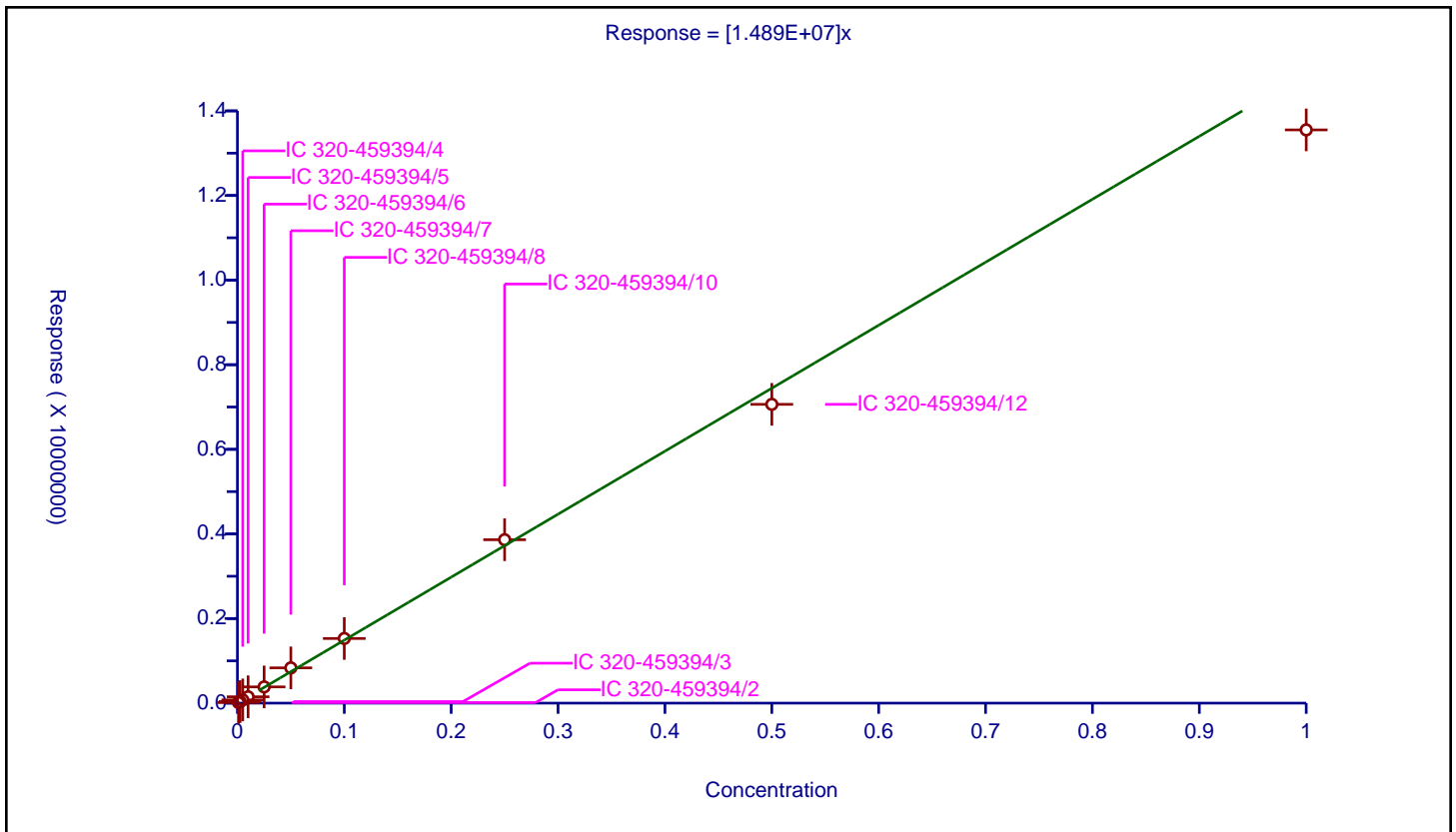
**/ PFECA B**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.489E+07

Error Coefficients	
Standard Error:	467000
Relative Standard Error:	6.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	13721.0			13721000.0	Y
2	IC 320-459394/3	0.0025	36557.0			14622800.0	Y
3	IC 320-459394/4	0.005	75572.0			15114400.0	Y
4	IC 320-459394/5	0.01	149845.0			14984500.0	Y
5	IC 320-459394/6	0.025	383788.0			15351520.0	Y
6	IC 320-459394/7	0.05	833815.0			16676300.0	Y
7	IC 320-459394/8	0.1	1528657.0			15286570.0	Y
8	IC 320-459394/10	0.25	3863050.0			15452200.0	Y
9	IC 320-459394/12	0.5	7063326.0			14126652.0	Y
10	IC 320-459394/13	1.0	13550668.0			13550668.0	Y



Calibration

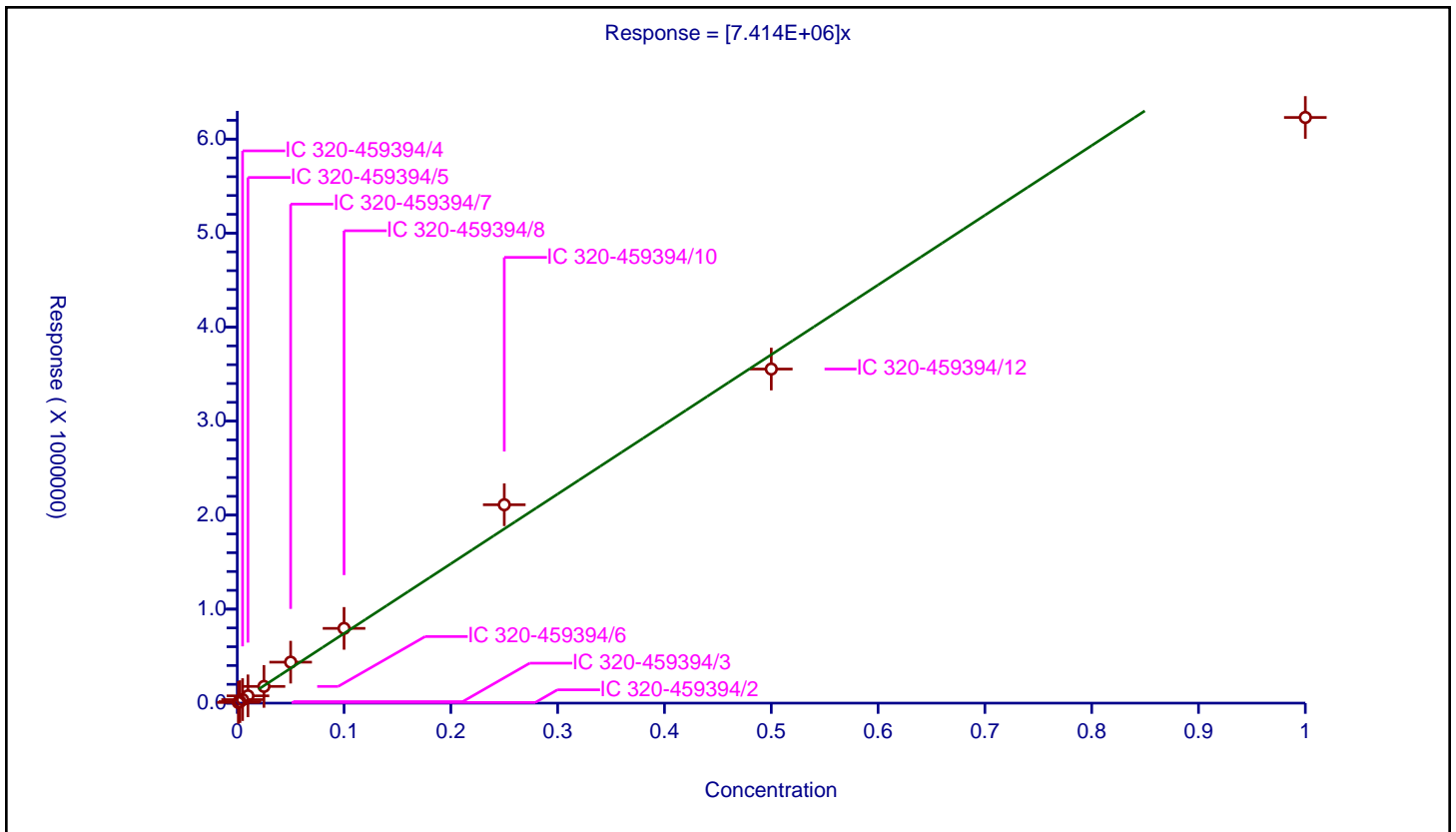
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.414E+06

Error Coefficients	
Standard Error:	408000
Relative Standard Error:	11.0
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	6865.0			6865000.0	Y
2	IC 320-459394/3	0.0025	16140.0			6456000.0	Y
3	IC 320-459394/4	0.005	37582.0			7516400.0	Y
4	IC 320-459394/5	0.01	77472.0			7747200.0	Y
5	IC 320-459394/6	0.025	177721.0			7108840.0	Y
6	IC 320-459394/7	0.05	436018.0			8720360.0	Y
7	IC 320-459394/8	0.1	795068.0			7950680.0	Y
8	IC 320-459394/10	0.25	2110206.0			8440824.0	Y
9	IC 320-459394/12	0.5	3553886.0			7107772.0	Y
10	IC 320-459394/13	1.0	6230046.0			6230046.0	Y



**Calibration**

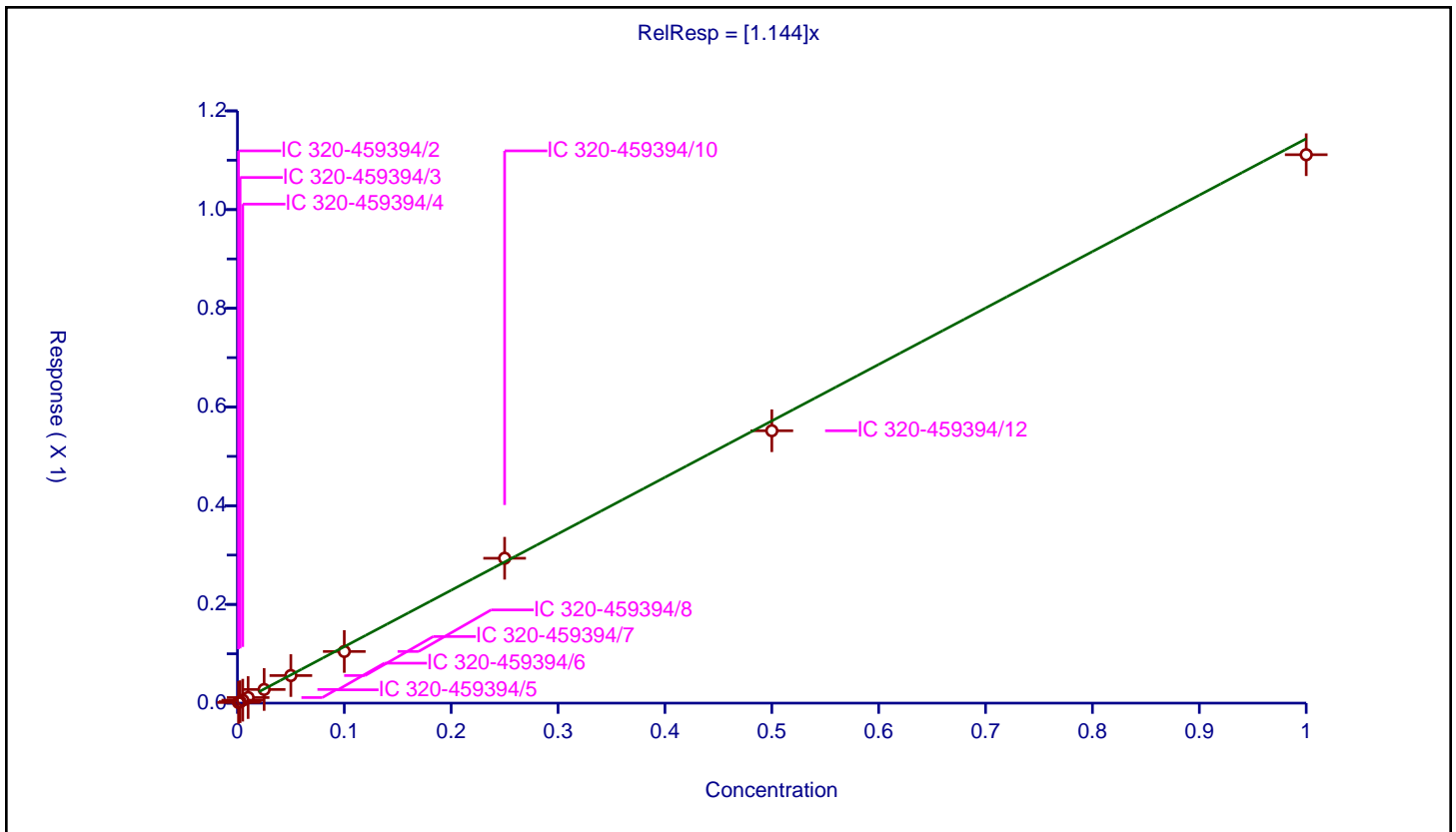
**/ Perfluoro(2-propoxypropanoic) acid**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.144

Error Coefficients	
Standard Error:	3440000
Relative Standard Error:	5.7
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-459394/2	0.001	0.001285	0.25	2045379.0	1.285092	Y
2	IC 320-459394/3	0.0025	0.002925	0.25	1952104.0	1.169815	Y
3	IC 320-459394/4	0.005	0.005959	0.25	2078073.0	1.191705	Y
4	IC 320-459394/5	0.01	0.011296	0.25	2095869.0	1.129615	Y
5	IC 320-459394/6	0.025	0.027666	0.25	2206754.0	1.106644	Y
6	IC 320-459394/7	0.05	0.055883	0.25	2377026.0	1.117668	Y
7	IC 320-459394/8	0.1	0.104682	0.25	2215982.0	1.046821	Y
8	IC 320-459394/10	0.25	0.293543	0.25	2061400.0	1.174173	Y
9	IC 320-459394/12	0.5	0.55193	0.25	1965730.0	1.103861	Y
10	IC 320-459394/13	1.0	1.111219	0.25	2017715.0	1.111219	Y



Calibration

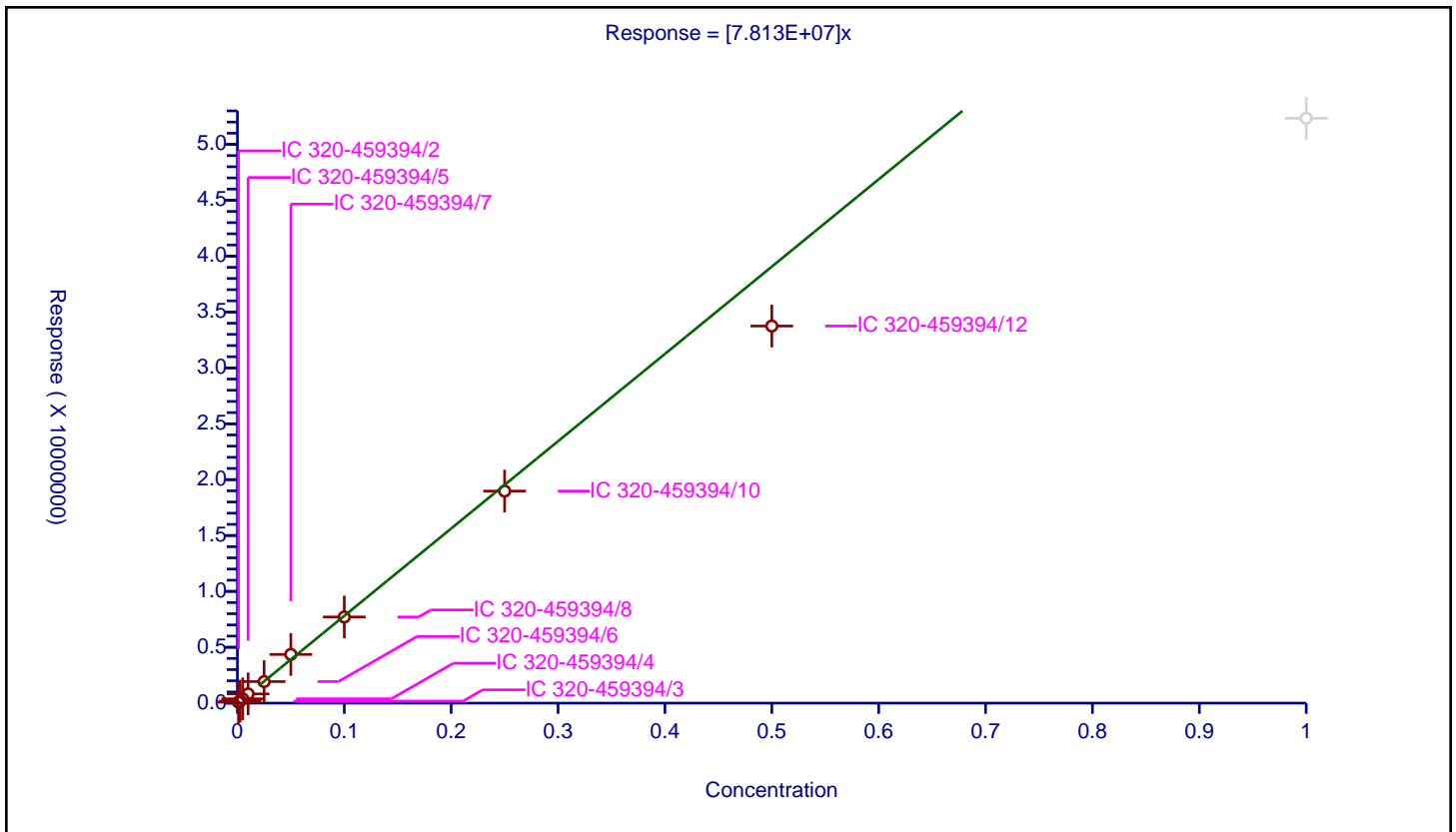
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.813E+07

Error Coefficients	
Standard Error:	1900000
Relative Standard Error:	8.1
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	85947.0			85947000.0	Y
2	IC 320-459394/3	0.0025	180033.0			72013200.0	Y
3	IC 320-459394/4	0.005	388351.0			77670200.0	Y
4	IC 320-459394/5	0.01	826735.0			82673500.0	Y
5	IC 320-459394/6	0.025	1929410.0			77176400.0	Y
6	IC 320-459394/7	0.05	4358582.0			87171640.0	Y
7	IC 320-459394/8	0.1	7709074.0			77090740.0	Y
8	IC 320-459394/10	0.25	18976213.0			75904852.0	Y
9	IC 320-459394/12	0.5	33747065.0			67494130.0	Y
10	IC 320-459394/13	1.0	52340803.0			52340803.0	N





**Calibration**

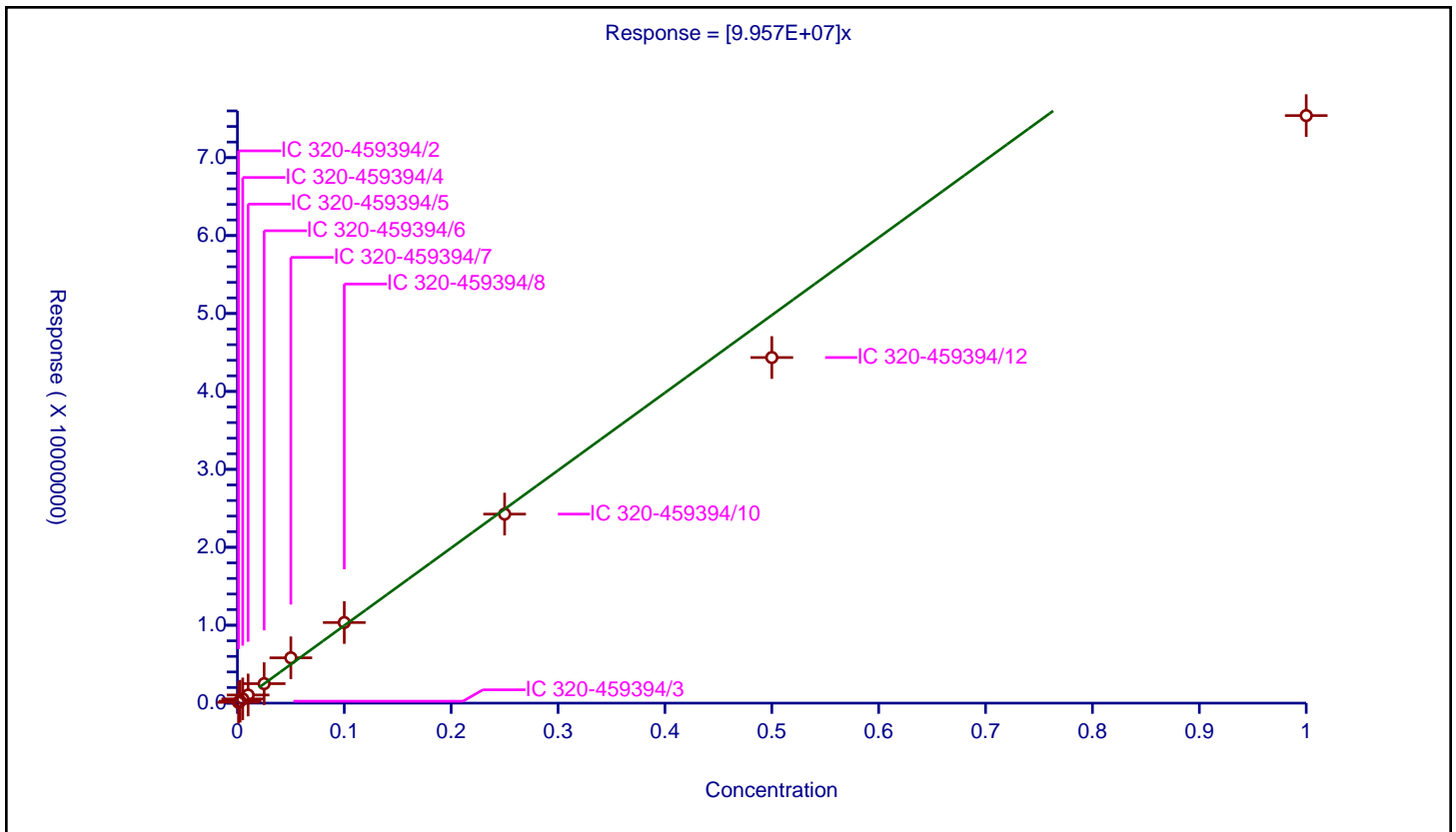
**/ Hydro-EVE Acid**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.957E+07

Error Coefficients	
Standard Error:	8270000
Relative Standard Error:	11.2
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	103273.0			103273000.0	Y
2	IC 320-459394/3	0.0025	246991.0			98796400.0	Y
3	IC 320-459394/4	0.005	542285.0			108457000.0	Y
4	IC 320-459394/5	0.01	1042951.0			104295100.0	Y
5	IC 320-459394/6	0.025	2500279.0			100011160.0	Y
6	IC 320-459394/7	0.05	5815273.0			116305460.0	Y
7	IC 320-459394/8	0.1	10343996.0			103439960.0	Y
8	IC 320-459394/10	0.25	24258218.0			97032872.0	Y
9	IC 320-459394/12	0.5	44349591.0			88699182.0	Y
10	IC 320-459394/13	1.0	75397902.0			75397902.0	Y



**Calibration**

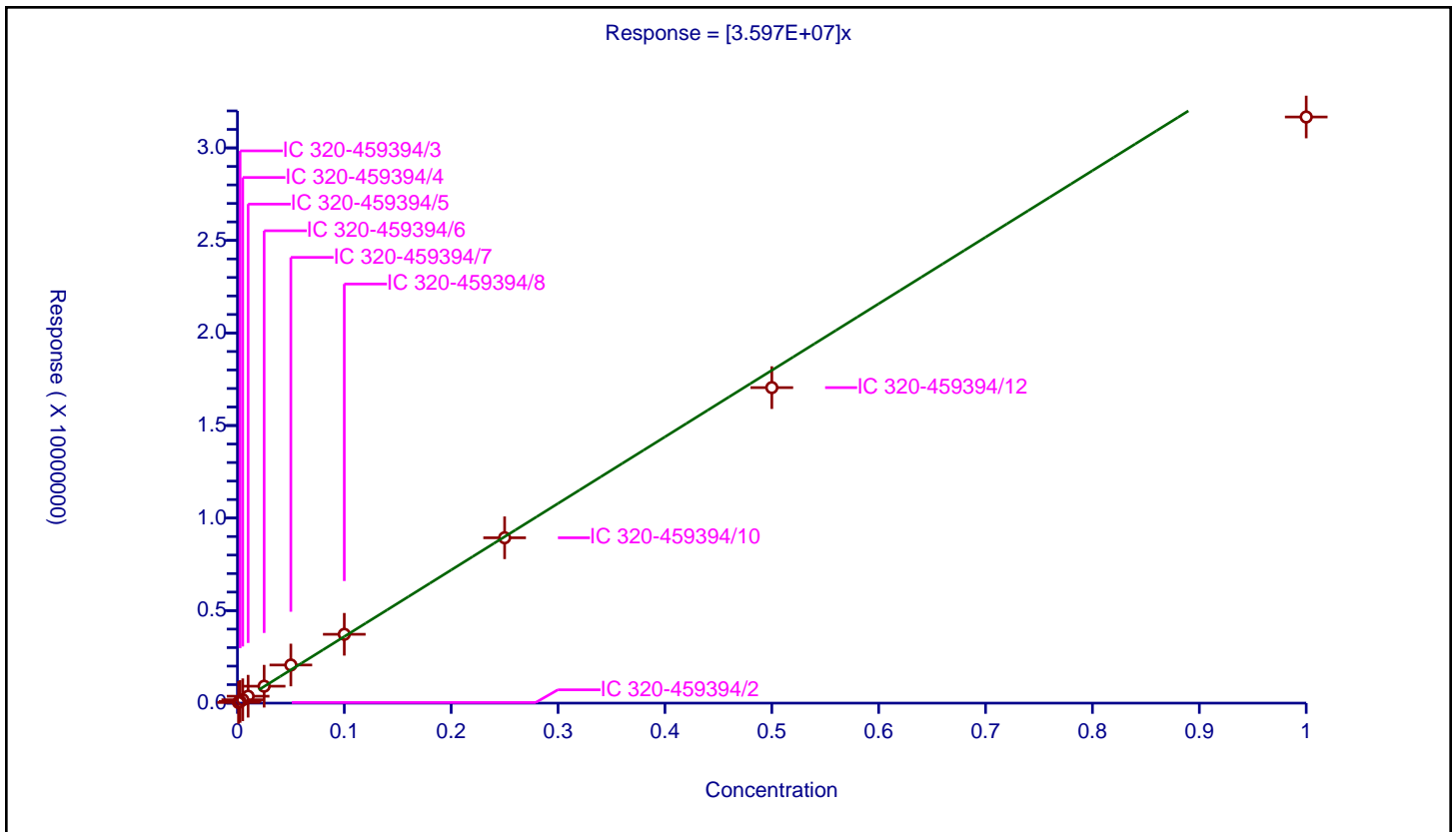
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.597E+07

Error Coefficients	
Standard Error:	1470000
Relative Standard Error:	7.2
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	33426.0			33426000.0	Y
2	IC 320-459394/3	0.0025	89921.0			35968400.0	Y
3	IC 320-459394/4	0.005	182135.0			36427000.0	Y
4	IC 320-459394/5	0.01	373676.0			37367600.0	Y
5	IC 320-459394/6	0.025	913959.0			36558360.0	Y
6	IC 320-459394/7	0.05	2060399.0			41207980.0	Y
7	IC 320-459394/8	0.1	3719134.0			37191340.0	Y
8	IC 320-459394/10	0.25	8934569.0			35738276.0	Y
9	IC 320-459394/12	0.5	17047957.0			34095914.0	Y
10	IC 320-459394/13	1.0	31669748.0			31669748.0	Y



**Calibration**

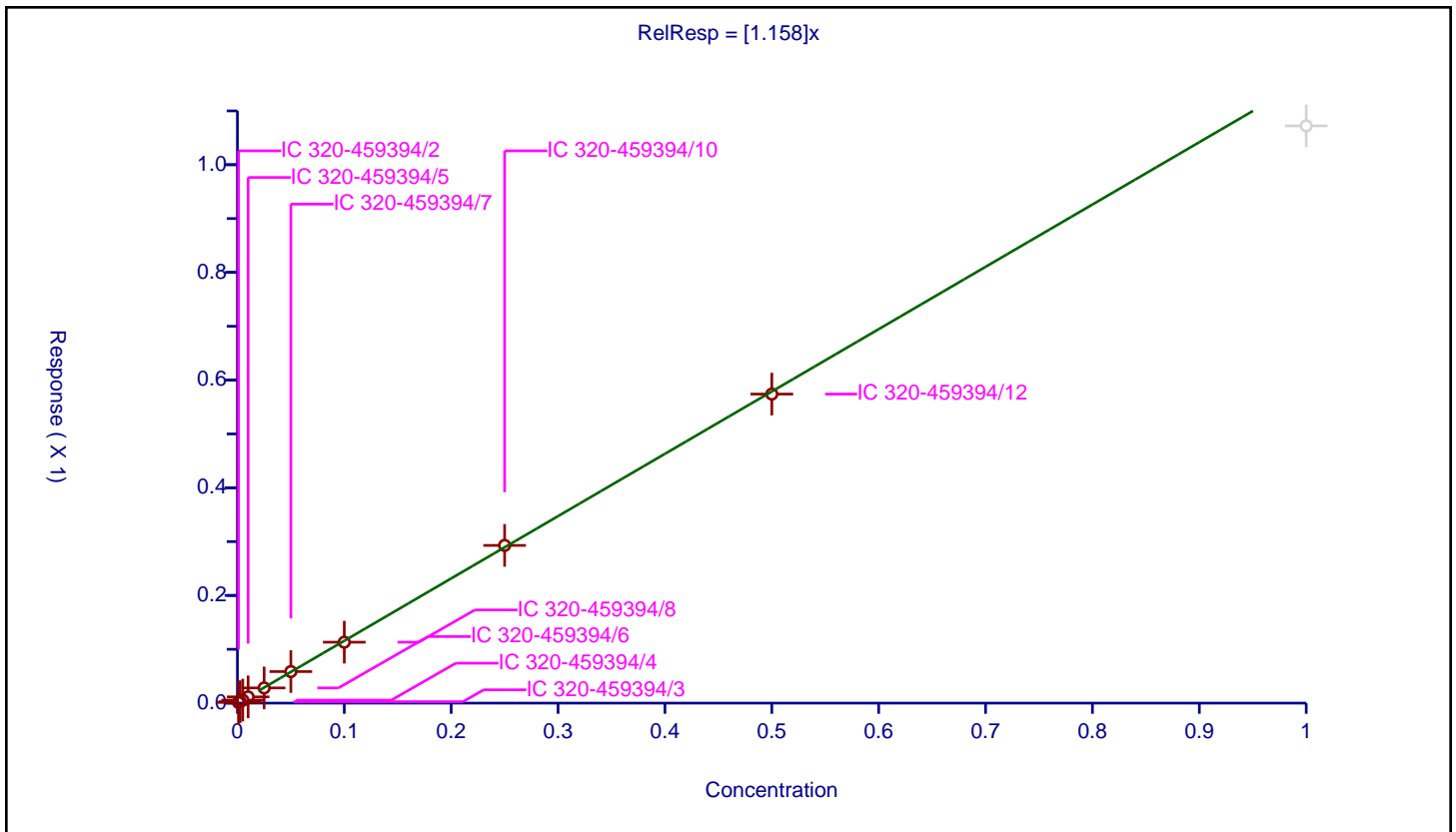
/ Perfluoroheptanoic acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.158

Error Coefficients	
Standard Error:	8200000
Relative Standard Error:	5.8
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-459394/2	0.001	0.001316	0.25	11666637.0	1.31636	Y
2	IC 320-459394/3	0.0025	0.002689	0.25	11413749.0	1.075781	Y
3	IC 320-459394/4	0.005	0.005575	0.25	10643617.0	1.115072	Y
4	IC 320-459394/5	0.01	0.011583	0.25	10423751.0	1.158271	Y
5	IC 320-459394/6	0.025	0.028237	0.25	10455368.0	1.129462	Y
6	IC 320-459394/7	0.05	0.058607	0.25	13307315.0	1.172143	Y
7	IC 320-459394/8	0.1	0.113194	0.25	11551408.0	1.131935	Y
8	IC 320-459394/10	0.25	0.292923	0.25	9669766.0	1.171693	Y
9	IC 320-459394/12	0.5	0.574	0.25	8380476.0	1.148	Y
10	IC 320-459394/13	1.0	1.072181	0.25	7133507.0	1.072181	N



Calibration

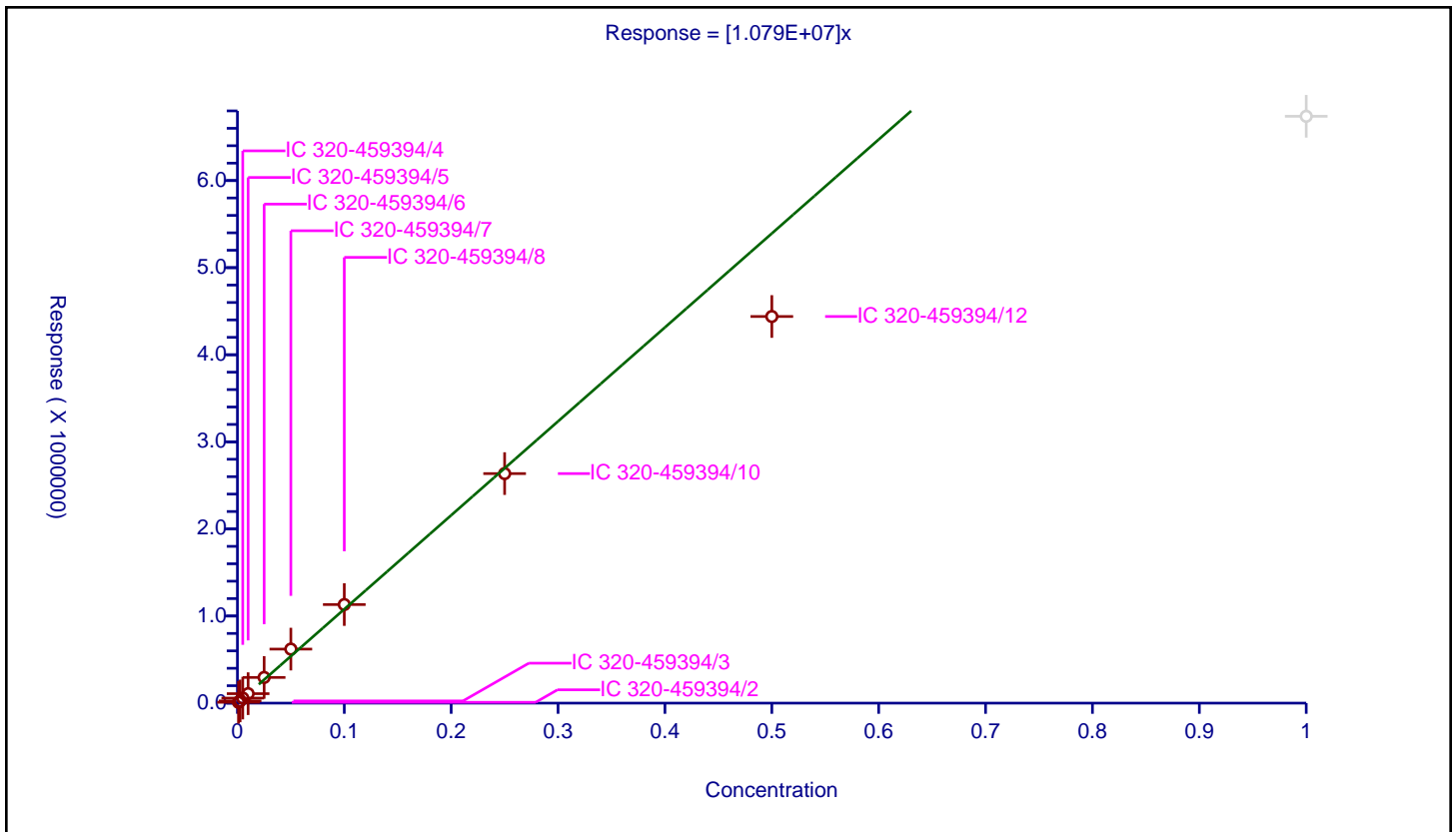
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.079E+07

Error Coefficients	
Standard Error:	340000
Relative Standard Error:	10.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	9534.0			9534000.0	Y
2	IC 320-459394/3	0.0025	25376.0			10150400.0	Y
3	IC 320-459394/4	0.005	57904.0			11580800.0	Y
4	IC 320-459394/5	0.01	108637.0			10863700.0	Y
5	IC 320-459394/6	0.025	294960.0			11798400.0	Y
6	IC 320-459394/7	0.05	620210.0			12404200.0	Y
7	IC 320-459394/8	0.1	1131882.0			11318820.0	Y
8	IC 320-459394/10	0.25	2635546.0			10542184.0	Y
9	IC 320-459394/12	0.5	4439269.0			8878538.0	Y
10	IC 320-459394/13	1.0	6737803.0			6737803.0	N



Calibration

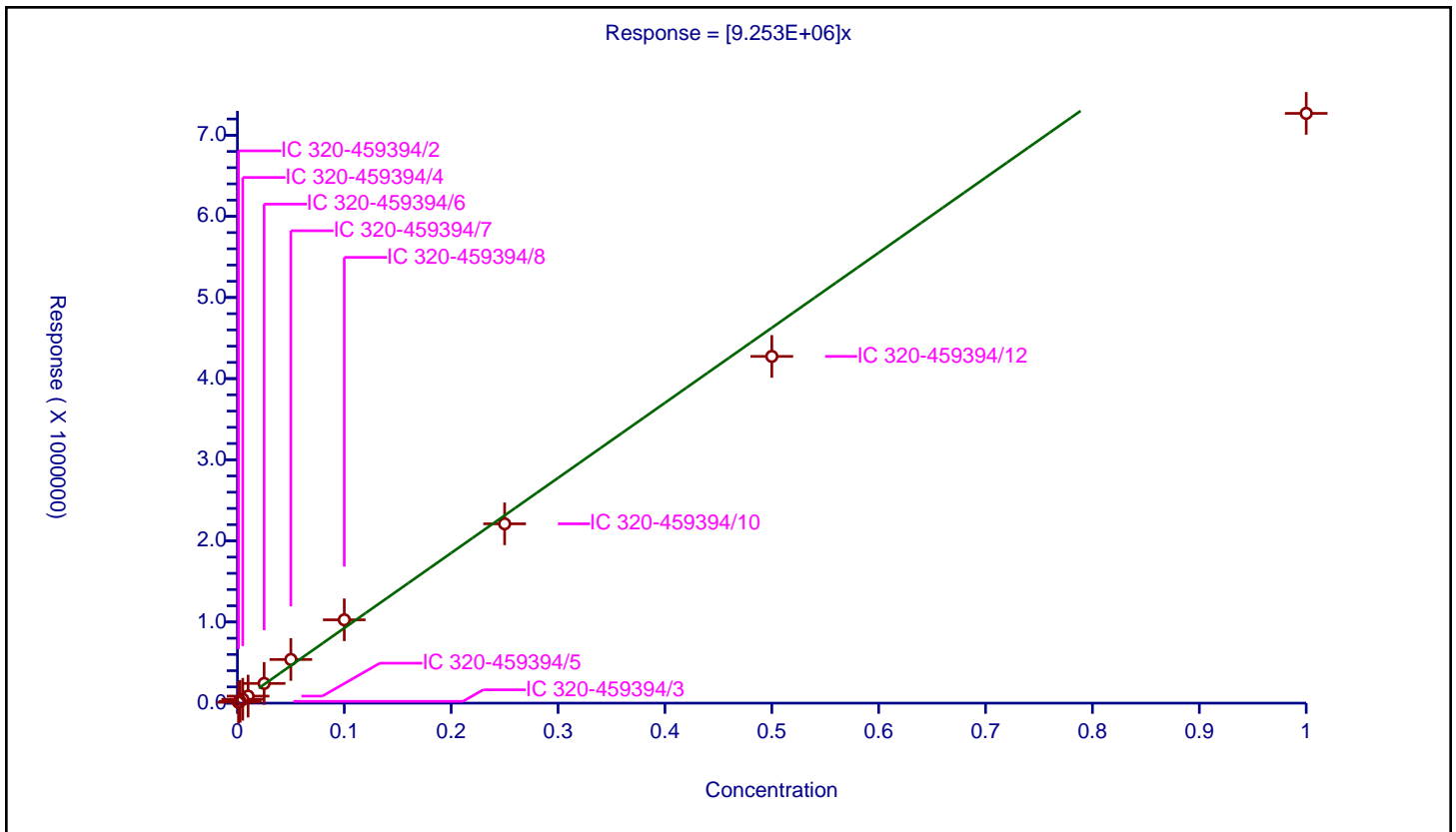
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.253E+06

Error Coefficients	
Standard Error:	674000
Relative Standard Error:	11.0
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	10091.0			10091000.0	Y
2	IC 320-459394/3	0.0025	22075.0			8830000.0	Y
3	IC 320-459394/4	0.005	47574.0			9514800.0	Y
4	IC 320-459394/5	0.01	86958.0			8695800.0	Y
5	IC 320-459394/6	0.025	242773.0			9710920.0	Y
6	IC 320-459394/7	0.05	537970.0			10759400.0	Y
7	IC 320-459394/8	0.1	1027138.0			10271380.0	Y
8	IC 320-459394/10	0.25	2210210.0			8840840.0	Y
9	IC 320-459394/12	0.5	4273703.0			8547406.0	Y
10	IC 320-459394/13	1.0	7269259.0			7269259.0	Y



**Calibration**

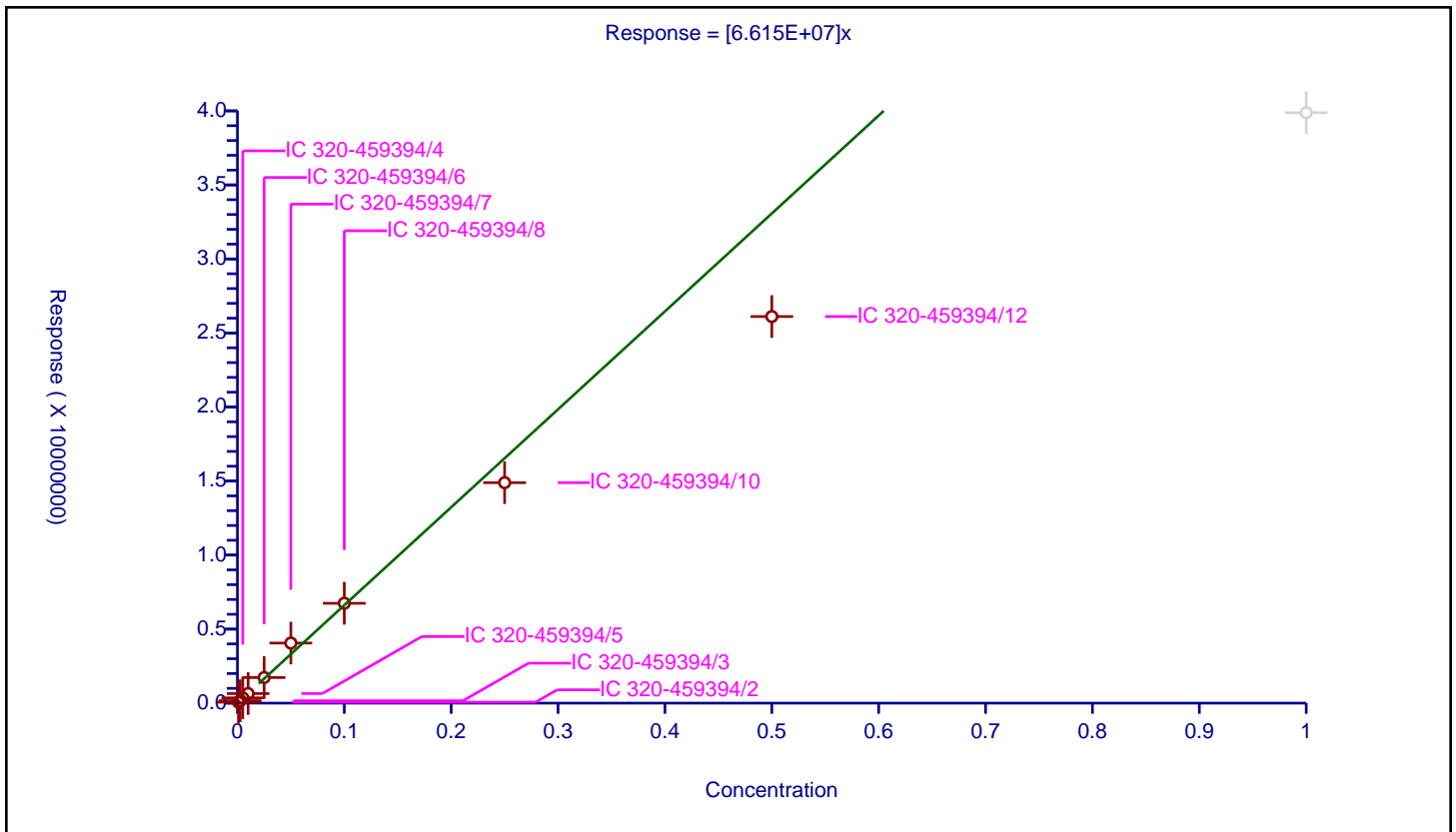
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	6.615E+07

Error Coefficients	
<b>Standard Error:</b>	2540000
<b>Relative Standard Error:</b>	12.0
<b>Correlation Coefficient:</b>	0.993
<b>Coefficient of Determination (Adjusted):</b>	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	64826.0			64826000.0	Y
2	IC 320-459394/3	0.0025	162642.0			65056800.0	Y
3	IC 320-459394/4	0.005	356923.0			71384600.0	Y
4	IC 320-459394/5	0.01	646034.0			64603400.0	Y
5	IC 320-459394/6	0.025	1727051.0			69082040.0	Y
6	IC 320-459394/7	0.05	4057266.0			81145320.0	Y
7	IC 320-459394/8	0.1	6743711.0			67437110.0	Y
8	IC 320-459394/10	0.25	14889287.0			59557148.0	Y
9	IC 320-459394/12	0.5	26110635.0			52221270.0	Y
10	IC 320-459394/13	1.0	39877396.0			39877396.0	N



**Calibration**

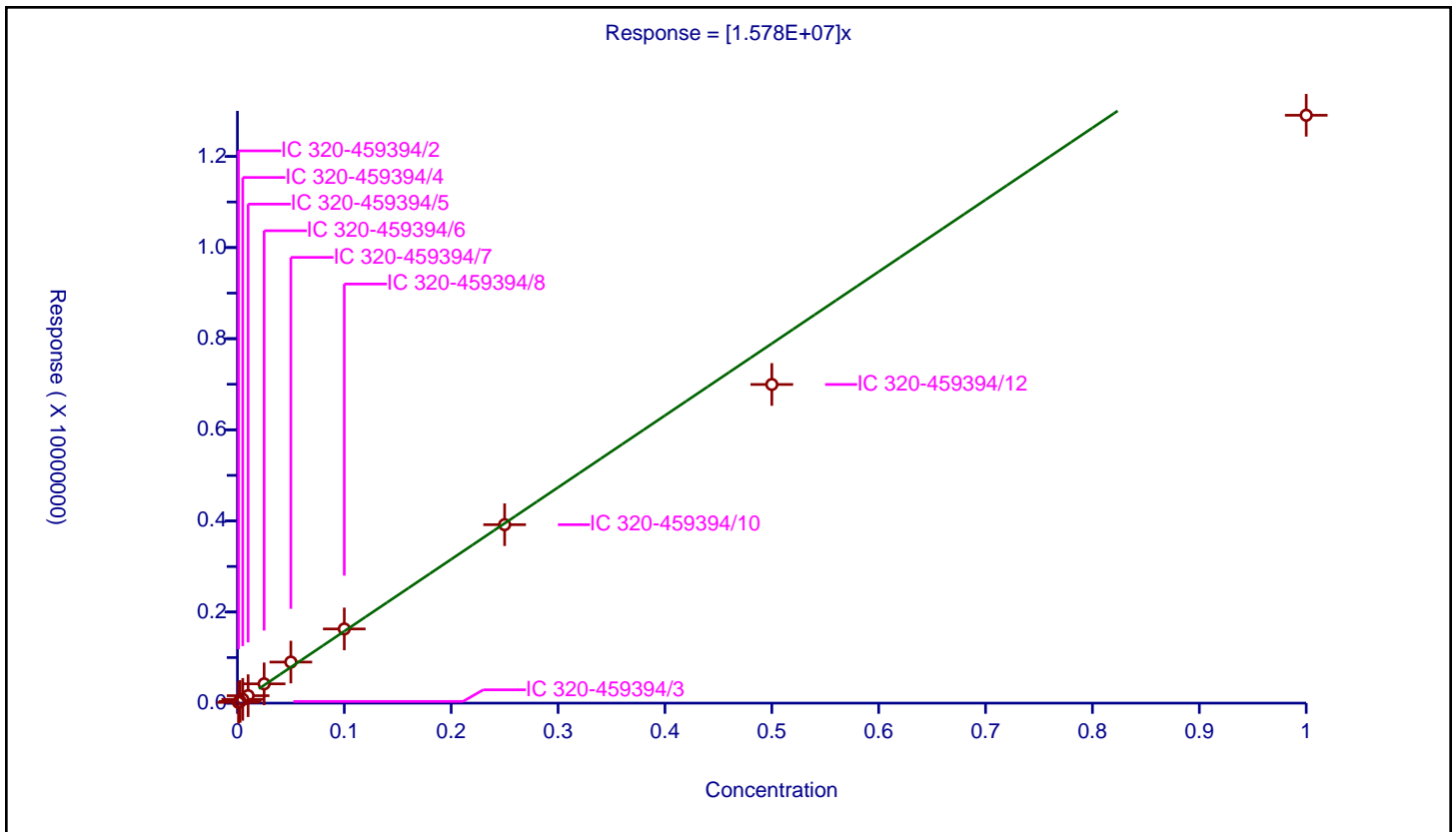
**/ PS Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.578E+07

Error Coefficients	
Standard Error:	1010000
Relative Standard Error:	9.4
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	16149.0			16149000.0	Y
2	IC 320-459394/3	0.0025	37306.0			14922400.0	Y
3	IC 320-459394/4	0.005	83006.0			16601200.0	Y
4	IC 320-459394/5	0.01	163483.0			16348300.0	Y
5	IC 320-459394/6	0.025	423677.0			16947080.0	Y
6	IC 320-459394/7	0.05	901351.0			18027020.0	Y
7	IC 320-459394/8	0.1	1628601.0			16286010.0	Y
8	IC 320-459394/10	0.25	3917215.0			15668860.0	Y
9	IC 320-459394/12	0.5	6994673.0			13989346.0	Y
10	IC 320-459394/13	1.0	12904329.0			12904329.0	Y



Calibration

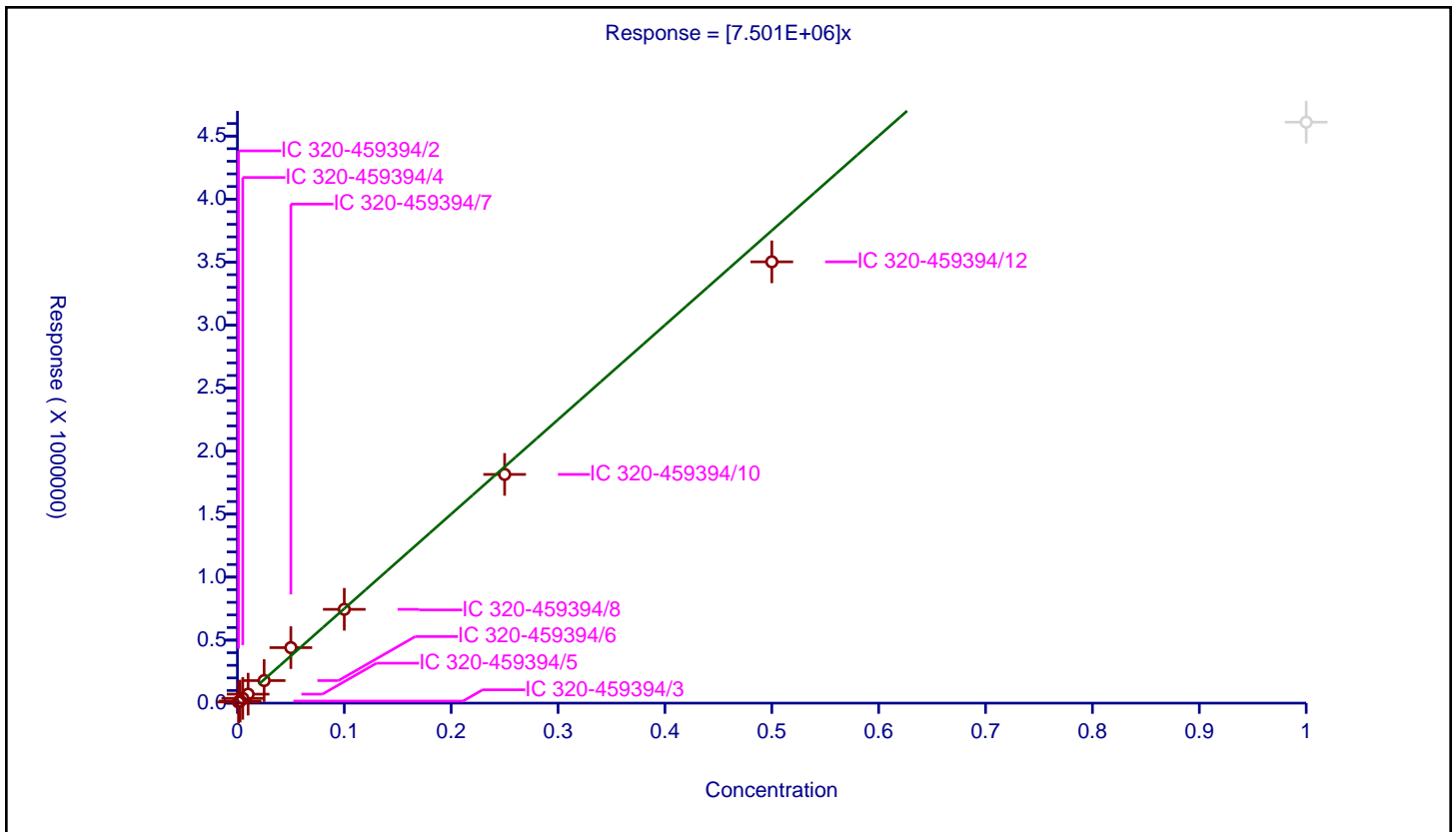
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.501E+06

Error Coefficients	
Standard Error:	93300
Relative Standard Error:	10.2
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.986

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-459394/2	0.001	8698.0			8698000.0	Y
2	IC 320-459394/3	0.0025	16264.0			6505600.0	Y
3	IC 320-459394/4	0.005	37638.0			7527600.0	Y
4	IC 320-459394/5	0.01	71085.0			7108500.0	Y
5	IC 320-459394/6	0.025	178858.0			7154320.0	Y
6	IC 320-459394/7	0.05	440378.0			8807560.0	Y
7	IC 320-459394/8	0.1	744238.0			7442380.0	Y
8	IC 320-459394/10	0.25	1815090.0			7260360.0	Y
9	IC 320-459394/12	0.5	3502257.0			7004514.0	Y
10	IC 320-459394/13	1.0	4610657.0			4610657.0	N





FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463313/2	2021.02.18_TB3_A12_ICALAA_007.d
Level 2	IC 320-463313/3	2021.02.18_TB3_A12_ICALAA_008.d
Level 3	IC 320-463313/4	2021.02.18_TB3_A12_ICALAA_009.d
Level 4	IC 320-463313/5	2021.02.18_TB3_A12_ICALAA_010.d
Level 5	IC 320-463313/6	2021.02.18_TB3_A12_ICALAA_011.d
Level 6	IC 320-463313/8	2021.02.18_TB3_A12_ICALAA_013.d
Level 7	IC 320-463313/10	2021.02.18_TB3_A12_ICALAA_015.d
Level 8	IC 320-463313/12	2021.02.18_TB3_A12_ICALAA_017.d
Level 9	IC 320-463313/14	2021.02.18_TB3_A12_ICALAA_019.d
Level 10	IC 320-463313/16	2021.02.18_TB3_A12_ICALAA_020.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	4.081	4.159	4.112	3.741	4.094	4.034	4.090	4.154	4.197	4.180	3.831 - 4.331	4.084
R-EVE	6.347	6.367	6.367	6.327	6.347	6.347	6.367	6.347	6.367	6.347	6.097 - 6.597	6.353
R-PSDA	6.407	6.407	6.427	6.367	6.406	6.407	6.427	6.407	++++	++++	6.157 - 6.657	6.407
Hydrolyzed PSDA	6.486	6.486	6.486	6.447	6.466	6.466	6.506	6.486	6.486	6.466	6.236 - 6.736	6.478
PMPA	++++	6.708	6.708	6.661	6.684	6.684	6.708	6.708	6.708	6.708	6.458 - 6.958	6.697
NVHOS	7.087	7.111	7.111	7.087	7.087	7.087	7.111	7.111	7.110	7.087	6.837 - 7.337	7.099
PFO2HxA	7.676	7.676	7.676	7.676	7.675	7.675	7.676	7.675	7.675	7.647	7.426 - 7.926	7.673
PEPA	8.259	8.259	8.259	8.259	8.259	8.259	8.259	8.259	8.259	8.259	8.009 - 8.509	8.259
PES	8.522	8.522	8.522	8.522	8.521	8.521	8.522	8.521	8.521	8.522	8.272 - 8.772	8.522
PFECA B	8.740	8.741	8.770	8.740	8.740	8.768	8.768	8.740	8.740	8.740	8.490 - 8.990	8.749
PFO3OA	8.986	8.987	8.987	8.986	8.985	9.017	9.017	8.985	8.985	8.985	8.736 - 9.236	8.992
HFPO-DA	9.102	9.103	9.103	9.102	9.102	9.102	9.102	9.102	9.102	9.074	8.852 - 9.352	9.099
R-PSDCA	9.458	9.459	9.459	9.458	9.457	9.458	9.458	9.457	9.457	9.425	9.208 - 9.708	9.455
Hydro-EVE Acid	9.490	9.491	9.491	9.490	9.490	9.490	9.523	9.490	9.490	9.490	9.240 - 9.740	9.494
Perfluoroheptanoic acid	9.523	9.491	9.524	9.523	9.490	9.522	9.523	9.490	9.490	9.490	9.273 - 9.773	9.507
Hydro-PS Acid	9.523	9.524	9.524	9.523	9.522	9.522	9.523	9.522	9.522	9.523	9.273 - 9.773	9.523
PFECA G	9.616	9.618	9.618	9.616	9.616	9.645	9.645	9.616	9.616	++++	9.366 - 9.866	9.623
PFO4DA	9.760	9.761	9.761	9.760	9.759	9.788	9.788	9.760	9.759	9.760	9.510 - 10.010	9.766
PS Acid	9.846	9.847	9.847	9.846	9.845	9.846	9.846	9.846	9.846	9.817	9.596 - 10.096	9.843
EVE Acid	9.846	9.847	9.847	9.846	9.845	9.846	9.846	9.846	9.846	++++	9.596 - 10.096	9.846
PFO5DA	10.348	10.349	10.349	10.348	10.322	10.348	10.348	10.322	10.322	10.322	10.098 - 10.598	10.338
13C3 HFPO-DA	9.102	9.103	9.103	9.102	9.073	9.102	9.102	9.102	9.102	9.074	9.002 - 9.202	9.097
13C4 PFHpA	9.523	9.491	9.524	9.490	9.490	9.522	9.523	9.490	9.490	9.490	9.423 - 9.623	9.503

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463313/2	2021.02.18_TB3_A12_ICALAA_007.d
Level 2	IC 320-463313/3	2021.02.18_TB3_A12_ICALAA_008.d
Level 3	IC 320-463313/4	2021.02.18_TB3_A12_ICALAA_009.d
Level 4	IC 320-463313/5	2021.02.18_TB3_A12_ICALAA_010.d
Level 5	IC 320-463313/6	2021.02.18_TB3_A12_ICALAA_011.d
Level 6	IC 320-463313/8	2021.02.18_TB3_A12_ICALAA_013.d
Level 7	IC 320-463313/10	2021.02.18_TB3_A12_ICALAA_015.d
Level 8	IC 320-463313/12	2021.02.18_TB3_A12_ICALAA_017.d
Level 9	IC 320-463313/14	2021.02.18_TB3_A12_ICALAA_019.d
Level 10	IC 320-463313/16	2021.02.18_TB3_A12_ICALAA_020.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	12155000 12404320 12647220	11452400 11986800 12383298	11855600 12244860	12060000 12638236	Ave		12182773.4			3.0		50.0				
R-EVE	5742000 5874920 6127074	5456800 5655360 6246631	6194800 5755200	5901400 6019952	Ave		5897413.70			4.3		50.0				
R-PSDA	3119000 2919360 ++++	2825600 2845660 ++++	2949200 2794280	2893100 2961200	Ave		2913425.00			3.5		50.0				
Hydrolyzed PSDA	8254000 8415000 8932440	7824000 8054800 9010818	8591400 8183350	8440800 8577644	Ave		8428425.20			4.4		50.0				
PMPA	++++ 24203160 23299946	29755200 22399780 22543944	27176600 23020390	25263100 22983464	Ave		24516176.0			10.2		50.0				
NVHOS	9325000 9552520 9951386	9220000 9100000 9761504	9355400 9296970	9366800 9629924	Ave		9455950.40			2.8		50.0				
PFO2HxA	17569000 18840400 18507542	17135600 17447660 17270351	17994400 18277510	17943300 18304124	Ave		17928988.7			3.1		50.0				
PEPA	9597000 10912080 10948628	9576000 10603640 10613649	10649400 10815690	10942000 10436128	Ave		10509421.5			4.9		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	35722000 36579440 39640060	35597200 35820600 35951170	35691800 37234980	35783100 39498800	Ave		36751915.0			4.3		50.0				
PFECA B	14116000 15865600 14729370	14653600 14774820 13440388	16238800 15206690	15111200 15529620	Ave		14966608.8			5.5		50.0				
PFO3OA	9317000 8824280 7652328	7202000 7780120 6077526	8326800 8224500	9193100 7541760	Ave		8013941.40			12.3		50.0				
R-PSDCA	60077000 65891440 56699184	59318400 61228780 46984872	68681000 64327610	61219200 67303988	Ave		61173147.4			10.2		50.0				
Hydro-EVE Acid	80440000 81402040 72531174	74456000 79888120 63961107	81416000 83057590	76377400 83981628	Ave		77751105.9			7.9		50.0				
Hydro-PS Acid	31905000 33447680 31100580	29782400 33114820 30486271	33345200 33358300	31305200 33648104	Ave		32149355.5			4.4		50.0				
PFECA G	9518000 8941360 7359920	8716400 9124220 +++++	10308800 9444700	8469300 9037448	Ave		8991127.56			9.0		50.0				
PFO4DA	8976000 7894480 7560644	7463200 8395800 6762788	9924600 8202390	6698700 9480560	Ave		8135916.20			13.3		50.0				
PS Acid	14651000 15325080 13660990	14353200 14369600 11752345	15443000 15295650	14867900 14885160	Ave		14460392.5			7.6		50.0				
EVE Acid	63043000 61925120 48004536	61450000 59853660 +++++	61225200 59788740	58759500 57213332	Ave		59029232.0			7.6		50.0				
PFO5DA	7548000 6692960 6369408	7081600 7492580 6280911	7902400 7889300	6076000 7772432	Ave		7110559.10			9.9		50.0				
13C3 HFPO-DA	9742180 9677492 9485140	9977756 9232228 8931504	9661888 9283780	10053852 8900540	Ave		9494636.00			4.2		50.0				
13C4 PFHpA	39643804 37686464 31069816	36472184 35745928 27831520	40995980 37196600	37033524 37222792	Ave		36089861.2			10.8		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	1.2417	1.0408	1.1058	1.1079	1.1415	AveID		1.1219			5.1		35.0				
Perfluoroheptanoic acid	1.1370	1.1228	1.1543	1.1277	1.0398	L2ID	0.0005	1.0739			4.4		0.9980			0.9900	
	1.6297	1.3072	1.0761	1.1167	1.1415												
	1.1160	1.0811	1.0907	1.1068	1.0373												

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463313/2	2021.02.18_TB3_A12_ICALAA_007.d
Level 2	IC 320-463313/3	2021.02.18_TB3_A12_ICALAA_008.d
Level 3	IC 320-463313/4	2021.02.18_TB3_A12_ICALAA_009.d
Level 4	IC 320-463313/5	2021.02.18_TB3_A12_ICALAA_010.d
Level 5	IC 320-463313/6	2021.02.18_TB3_A12_ICALAA_011.d
Level 6	IC 320-463313/8	2021.02.18_TB3_A12_ICALAA_013.d
Level 7	IC 320-463313/10	2021.02.18_TB3_A12_ICALAA_015.d
Level 8	IC 320-463313/12	2021.02.18_TB3_A12_ICALAA_017.d
Level 9	IC 320-463313/14	2021.02.18_TB3_A12_ICALAA_019.d
Level 10	IC 320-463313/16	2021.02.18_TB3_A12_ICALAA_020.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	12155	28631	59278	120600	310108	0.00100	0.00250	0.00500	0.0100	0.0250
		599340	1224486	3159559	6323610	12383298	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	5742	13642	30974	59014	146873	0.00100	0.00250	0.00500	0.0100	0.0250
		282768	575520	1504988	3063537	6246631	0.0500	0.100	0.250	0.500	1.00
R-PSDA	Ave	3119	7064	14746	28931	72984	0.00100	0.00250	0.00500	0.0100	0.0250
		142283	279428	740300	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydrolyzed PSDA	Ave	8254	19560	42957	84408	210375	0.00100	0.00250	0.00500	0.0100	0.0250
		402740	818335	2144411	4466220	9010818	0.0500	0.100	0.250	0.500	1.00
PMPA	Ave	+++++	74388	135883	252631	605079	+++++	0.00250	0.00500	0.0100	0.0250
		1119989	2302039	5745866	11649973	22543944	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	9325	23050	46777	93668	238813	0.00100	0.00250	0.00500	0.0100	0.0250
		455000	929697	2407481	4975693	9761504	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	17569	42839	89972	179433	471010	0.00100	0.00250	0.00500	0.0100	0.0250
		872383	1827751	4576031	9253771	17270351	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	9597	23940	53247	109420	272802	0.00100	0.00250	0.00500	0.0100	0.0250
		530182	1081569	2609032	5474314	10613649	0.0500	0.100	0.250	0.500	1.00
PES	Ave	35722	88993	178459	357831	914486	0.00100	0.00250	0.00500	0.0100	0.0250
		1791030	3723498	9874700	19820030	35951170	0.0500	0.100	0.250	0.500	1.00
PFECA B	Ave	14116	36634	81194	151112	396640	0.00100	0.00250	0.00500	0.0100	0.0250
		738741	1520669	3882405	7364685	13440388	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	9317	18005	41634	91931	220607	0.00100	0.00250	0.00500	0.0100	0.0250
		389006	822450	1885440	3826164	6077526	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	60077	148296	343405	612192	1647286	0.00100	0.00250	0.00500	0.0100	0.0250
		3061439	6432761	16825997	28349592	46984872	0.0500	0.100	0.250	0.500	1.00
Hydro-EVE Acid	Ave	80440	186140	407080	763774	2035051	0.00100	0.00250	0.00500	0.0100	0.0250
		3994406	8305759	20995407	36265587	63961107	0.0500	0.100	0.250	0.500	1.00
Hydro-PS Acid	Ave	31905	74456	166726	313052	836192	0.00100	0.00250	0.00500	0.0100	0.0250
		1655741	3335830	8412026	15550290	30486271	0.0500	0.100	0.250	0.500	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	9518 456211	21791 944470	51544 2259362	84693 3679960	223534 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO4DA	Ave	8976 419790	18658 820239	49623 2370140	66987 3780322	197362 6762788	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
PS Acid	Ave	14651 718480	35883 1529565	77215 3721290	148679 6830495	383127 11752345	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
EVE Acid	Ave	63043 2992683	153625 5978874	306126 14303333	587595 24002268	1548128 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO5DA	Ave	7548 374629	17704 788930	39512 1943108	60760 3184704	167324 6280911	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
13C3 HFPO-DA	Ave	2435545 2308057	2494439 2320945	2415472 2225135	2513463 2371285	2419373 2232876	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250
13C4 PFHpA	Ave	9910951 8936482	9118046 9299150	10248995 9305698	9258381 7767454	9421616 6957880	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250

Curve Type Legend:

Ave = Average

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1 Analy Batch No.: 463313

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/18/2021 18:48 Calibration End Date: 02/18/2021 22:37 Calibration ID: 54177

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463313/2	2021.02.18_TB3_A12_ICALAA_007.d
Level 2	IC 320-463313/3	2021.02.18_TB3_A12_ICALAA_008.d
Level 3	IC 320-463313/4	2021.02.18_TB3_A12_ICALAA_009.d
Level 4	IC 320-463313/5	2021.02.18_TB3_A12_ICALAA_010.d
Level 5	IC 320-463313/6	2021.02.18_TB3_A12_ICALAA_011.d
Level 6	IC 320-463313/8	2021.02.18_TB3_A12_ICALAA_013.d
Level 7	IC 320-463313/10	2021.02.18_TB3_A12_ICALAA_015.d
Level 8	IC 320-463313/12	2021.02.18_TB3_A12_ICALAA_017.d
Level 9	IC 320-463313/14	2021.02.18_TB3_A12_ICALAA_019.d
Level 10	IC 320-463313/16	2021.02.18_TB3_A12_ICALAA_020.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	12097	25961	53422	111391	276170	0.00100	0.00250	0.00500	0.0100	0.0250
			524872	1042410	2568381	5348270	9287029	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		L2ID	64607	119191	220582	413555	1075499	0.00100	0.00250	0.00500	0.0100	0.0250
			1994635	4021407	10149585	17193907	28868614	0.0500	0.100	0.250	0.500	1.00

Curve Type Legend:

AveID = Average isotope dilution  
 L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_007.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 18-Feb-2021 18:48:37 ALS Bottle#: 7 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (56)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:09 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: fariasa Date: 19-Feb-2021 11:57:18

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.081	4.081	0.0		12155	0.000998		99.8	1.7	M
2 R-EVE										
405.00 > 217.00	6.347	6.347	0.0		5742	0.000974		97.4	78.8	
3 R-PSDA										M
440.90 > 241.00	6.407	6.407	0.0		3119	0.001071		107	41.2	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.486	6.486	0.0		8254	0.000979		97.9	133	
23 PMPA										M
229.00 > 185.00	6.708	6.708	0.0		47824	0.001951		195	20.7	M
5 NVHOS										
297.00 > 135.00	7.087	7.087	0.0		9325	0.000986		98.6	144	
6 PFO2HxA										
245.00 > 85.00	7.676	7.676	0.0		17569	0.000980		98.0	129	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		9597	0.000913		91.3	20.8	
7 PES										
314.90 > 135.00	8.522	8.522	0.0		35722	0.000972		97.2	892	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		14116	0.000943		94.3	281	
9 PFO3OA										
310.90 > 85.00	8.986	8.986	0.0		9317	0.001163		116	150	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	12097	0.001107		111	351	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2435545	0.2565		103	67631	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.458	9.458	0.0		60077	0.000982		98.2	1166	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		80440	0.001035		103	929	
D 14 13C4 PFHpA										
367.00 > 322.00	9.523	9.523	0.0		9910951	0.2746		110	189661	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.523	9.523	0.0	1.000	64607	0.001012	Target=0.00	101	265	
363.00 > 169.00	9.523	9.523	0.0	1.000	17359		3.72(0.00-0.00)	101	275	
15 Hydro-PS Acid										
463.00 > 262.90	9.523	9.523	0.0		31905	0.000992		99.2	724	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		9518	0.001059		106	261	
18 PFO4DA										
376.90 > 85.00	9.760	9.760	0.0		8976	0.001103		110	189	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		63043	0.001068		107	1803	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		14651	0.001013		101	417	
21 TAF										
442.90 > 85.00	10.348	10.348	0.0		7548	0.001062		106	32.0	

**QC Flag Legend**

Processing Flags

Review Flags

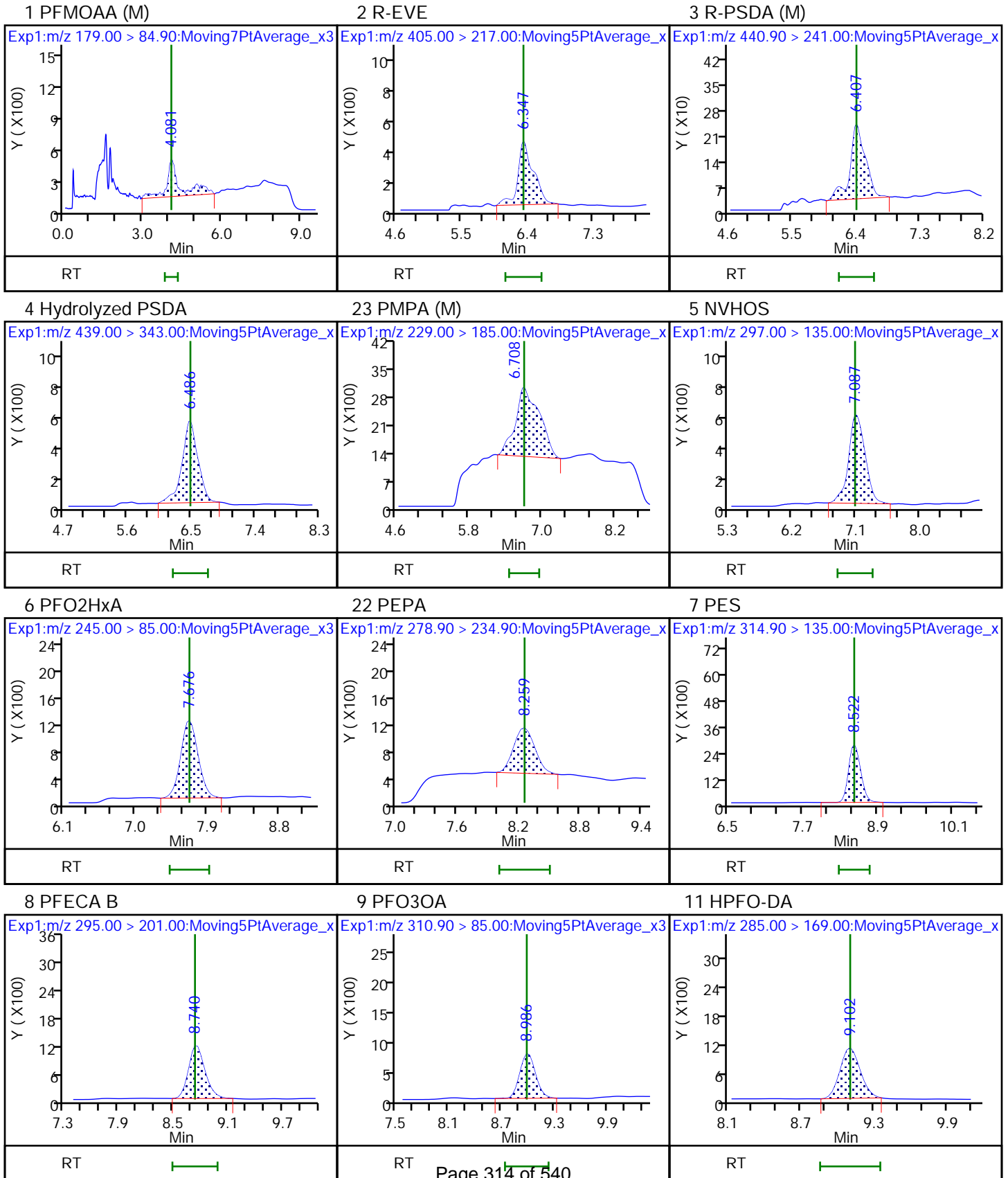
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD1\_00056

Amount Added: 1.00

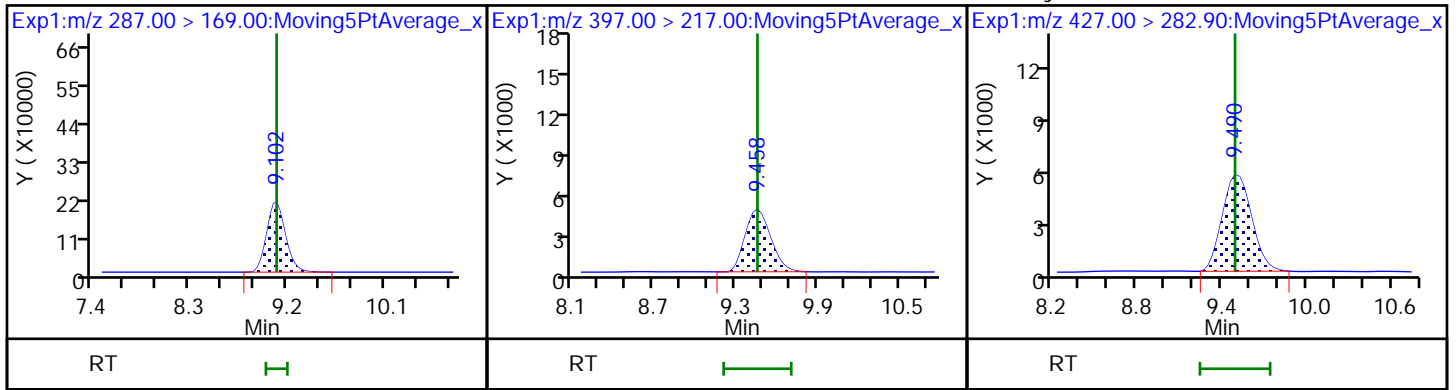
Units: mL



D 10 13C3 HFPO-DA

12 R-PSDCA

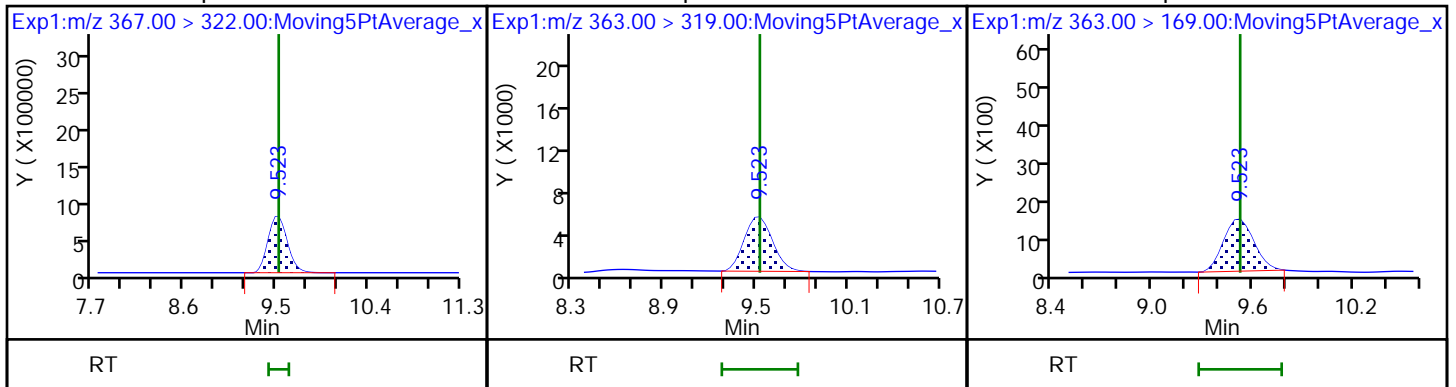
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

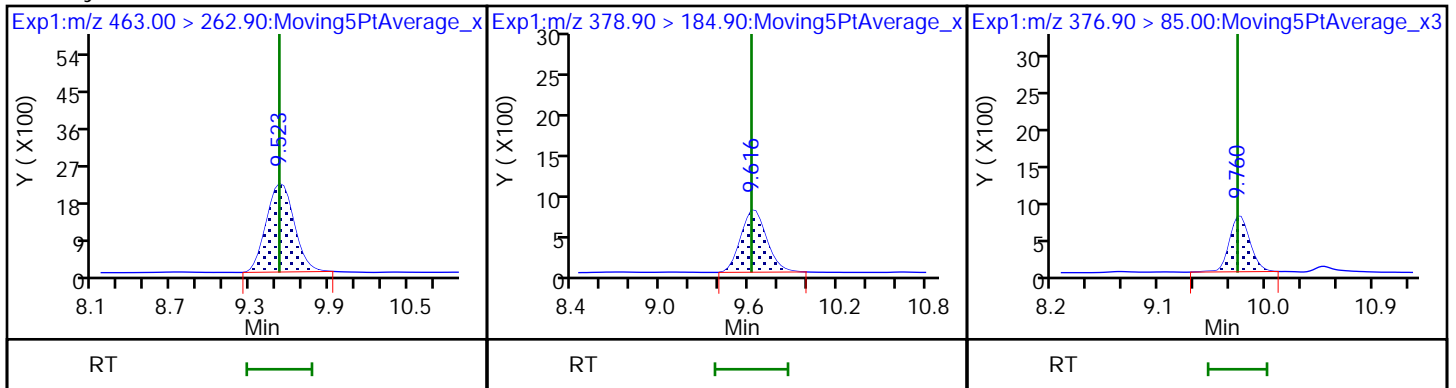
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

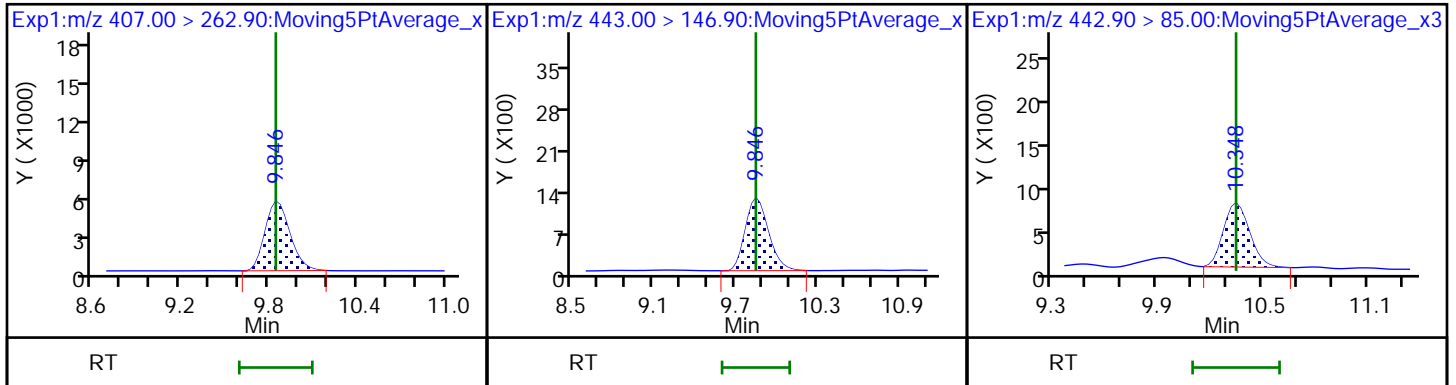
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

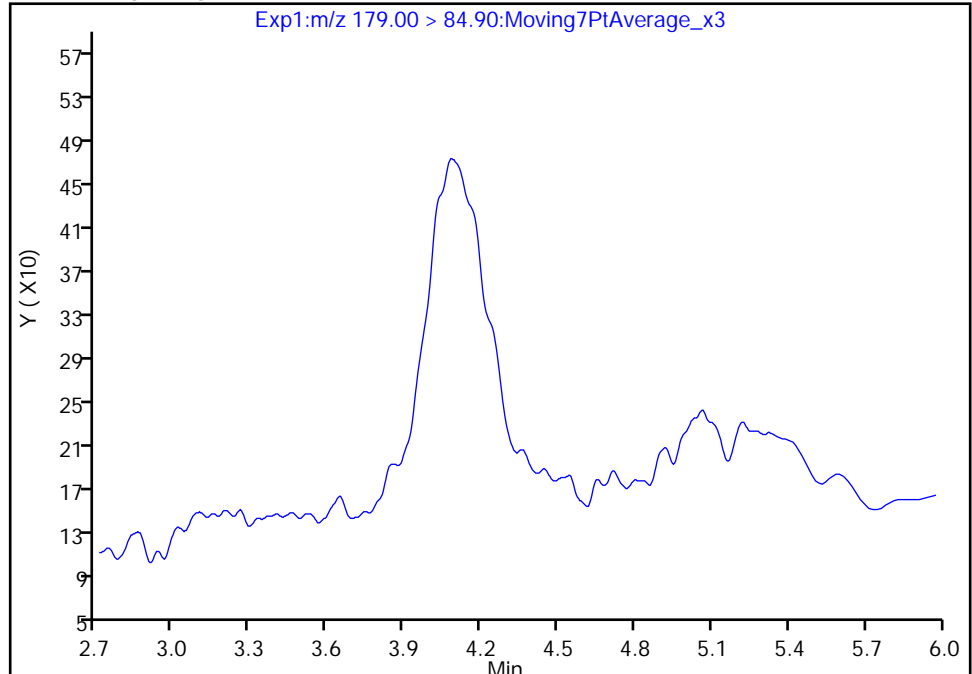
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_007.d  
Injection Date: 18-Feb-2021 18:48:37 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

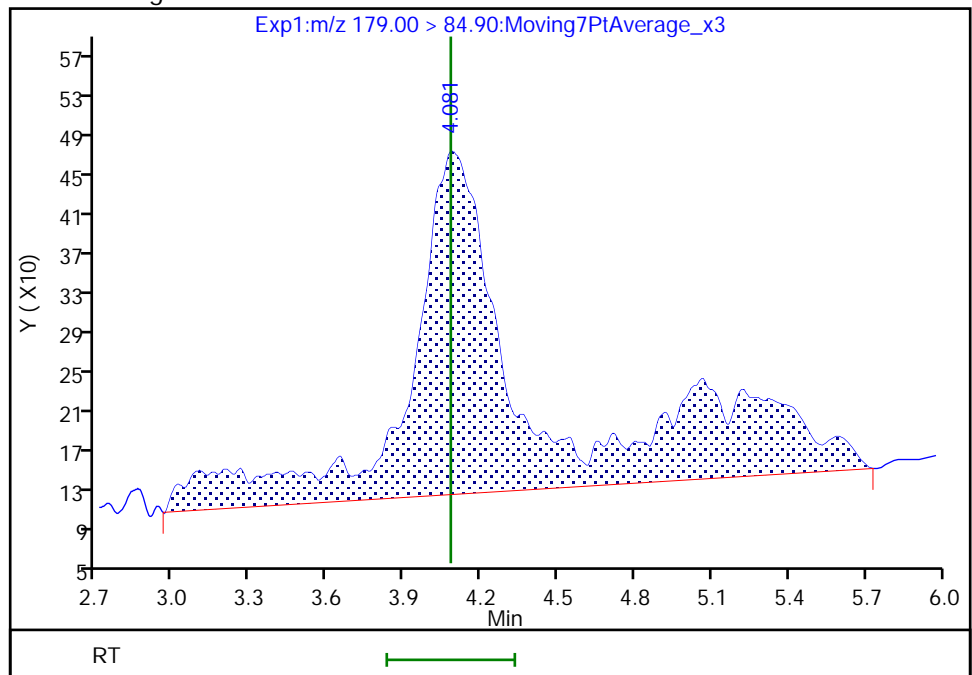
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 12155  
Amount: 0.000998  
Amount Units: ng/ml



Reviewer: fariasa, 19-Feb-2021 10:12:04  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 317 of 540

Eurofins TestAmerica, Sacramento

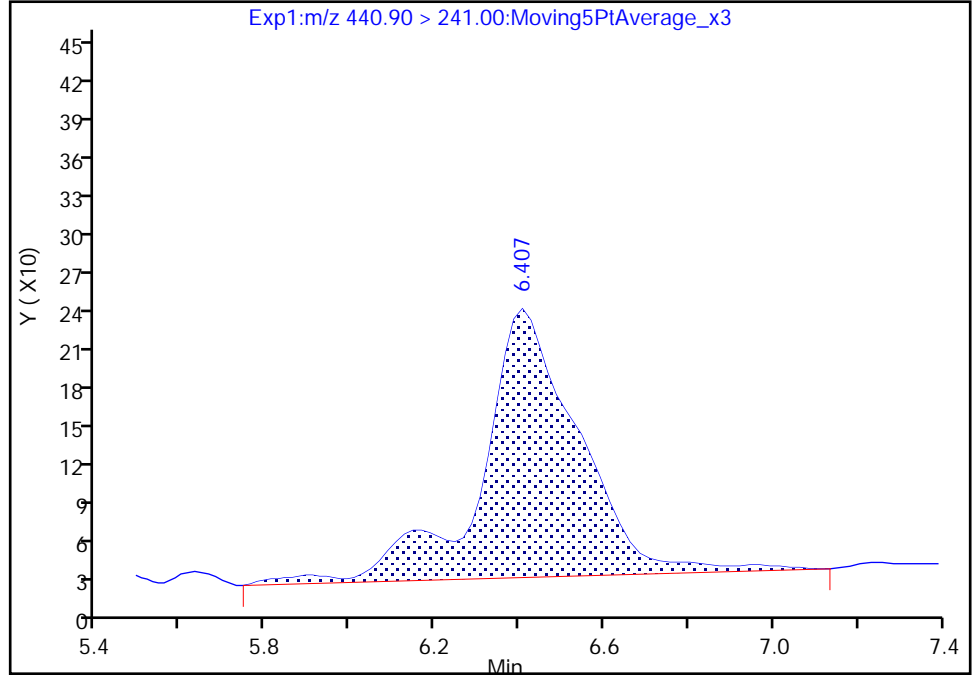
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_007.d  
Injection Date: 18-Feb-2021 18:48:37 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

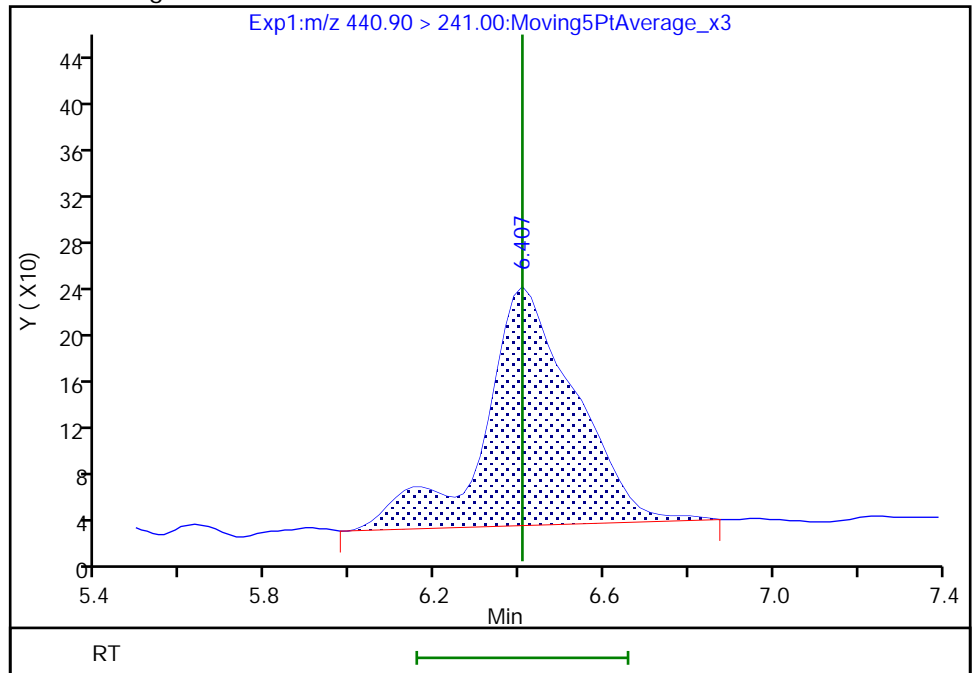
RT: 6.41  
Area: 3418  
Amount: 0.001137  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 3119  
Amount: 0.001071  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 23:01:55

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

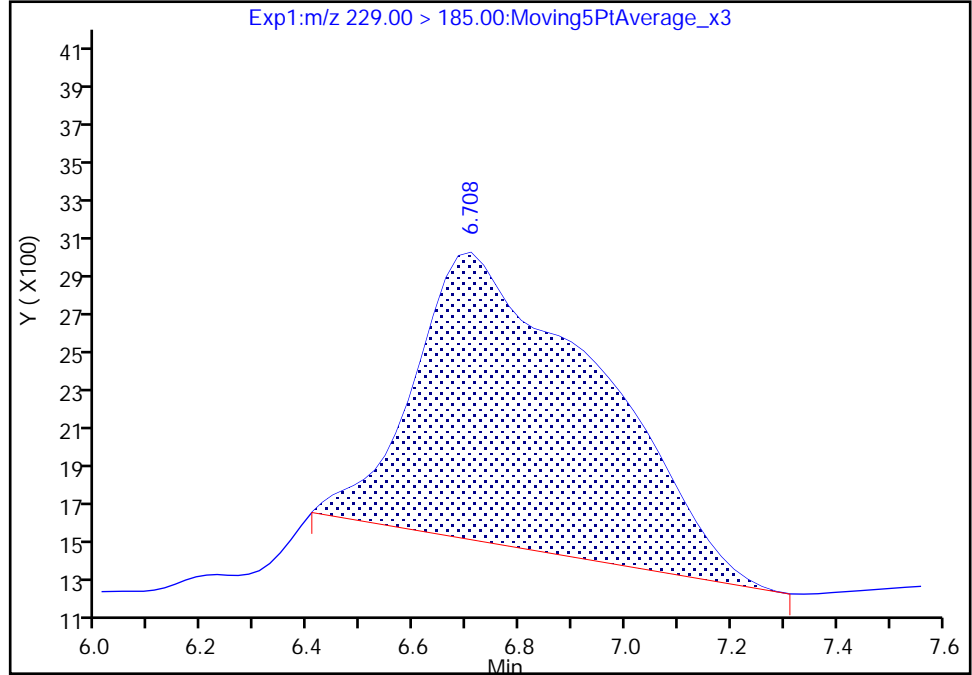
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Injection Date: 18-Feb-2021 18:48:37 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

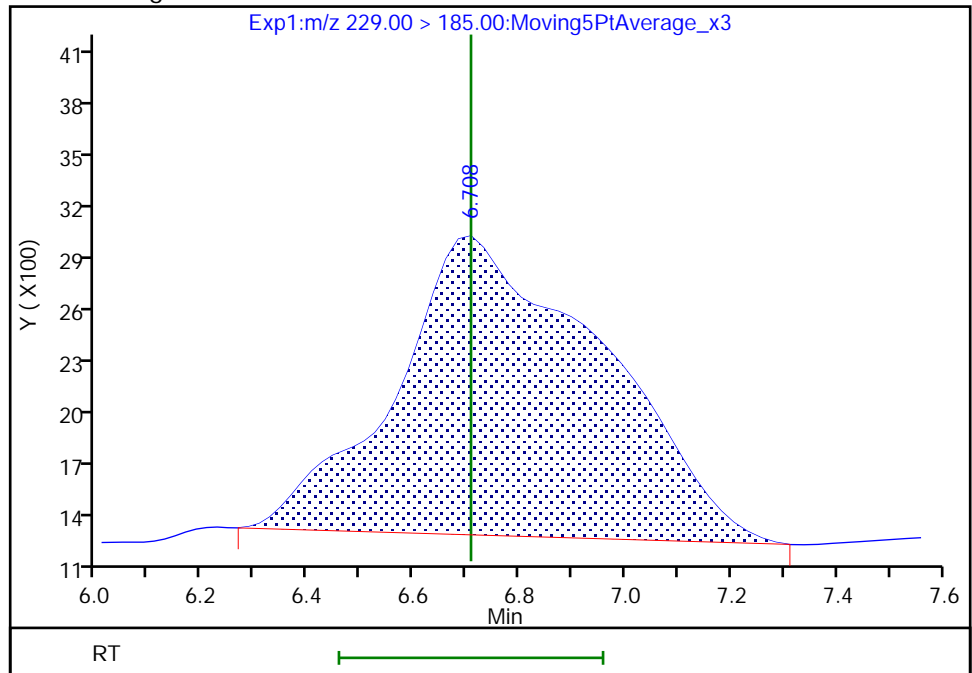
RT: 6.71  
Area: 37500  
Amount: 0.001402  
Amount Units: ng/ml

Processing Integration Results



RT: 6.71  
Area: 47824  
Amount: 0.001951  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:44:08

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_008.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 18-Feb-2021 19:06:24 ALS Bottle#: 8 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (46)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:10 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 20:55:51

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.159	4.081	0.078		28631	0.002350		94.0	5.9	M
2 R-EVE										M
405.00 > 217.00	6.367	6.347	0.020		13642	0.002313		92.5	190	M
3 R-PSDA										
440.90 > 241.00	6.407	6.407	0.0		7064	0.002425		97.0	91.4	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.486	6.486	0.0		19560	0.002321		92.8	304	M
23 PMPA										M
229.00 > 185.00	6.708	6.708	0.0		74388	0.003034		121	40.4	M
5 NVHOS										
297.00 > 135.00	7.111	7.087	0.024		23050	0.002438		97.5	371	
6 PFO2HxA										
245.00 > 85.00	7.676	7.676	0.0		42839	0.002389		95.6	322	
22 PEPA										M
278.90 > 234.90	8.259	8.259	0.0		23940	0.002278		91.1	52.4	M
7 PES										
314.90 > 135.00	8.522	8.522	0.0		88993	0.002421		96.9	2246	
8 PFECA B										
295.00 > 201.00	8.741	8.740	0.001		36634	0.002448		97.9	720	
9 PFO3OA										
310.90 > 85.00	8.987	8.986	0.001		18005	0.002247		89.9	288	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.103	9.102	0.001		2494439	0.2627		105	69378	
11 HPFO-DA										
285.00 > 169.00	9.103	9.102	0.001	1.000	25961	0.002319		92.8	744	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.459	9.458	0.001		148296	0.002424		97.0	2867	
13 Hydro-EVE Acid										
427.00 > 282.90	9.491	9.490	0.001		186140	0.002394		95.8	2155	
D 14 13C4 PFHpA										
367.00 > 322.00	9.491	9.523	-0.032		9118046	0.2526		101	175301	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.491	9.523	-0.032	1.000	119191	0.002538	Target=0.00	102	511	
363.00 > 169.00	9.524	9.523	0.001	1.003	37062		3.22(0.00-0.00)	102	718	
15 Hydro-PS Acid										
463.00 > 262.90	9.524	9.523	0.001		74456	0.002316		92.6	1665	
17 PFECA G										
378.90 > 184.90	9.618	9.616	0.002		21791	0.002424		96.9	595	
18 PFO4DA										
376.90 > 85.00	9.761	9.760	0.001		18658	0.002293		91.7	394	
20 EVE Acid										
407.00 > 262.90	9.847	9.846	0.001		153625	0.002603		104	4382	
19 PS Acid										
443.00 > 146.90	9.847	9.846	0.001		35883	0.002481		99.3	1024	
21 TAF										
442.90 > 85.00	10.349	10.348	0.001		17704	0.002490		99.6	57.6	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00046

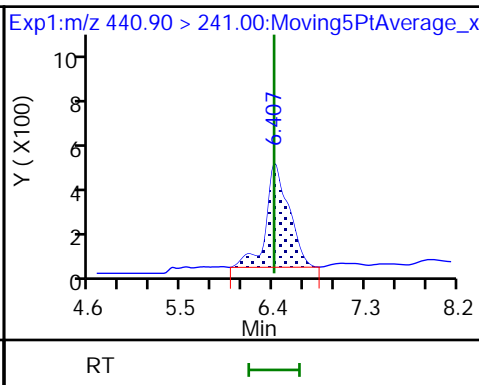
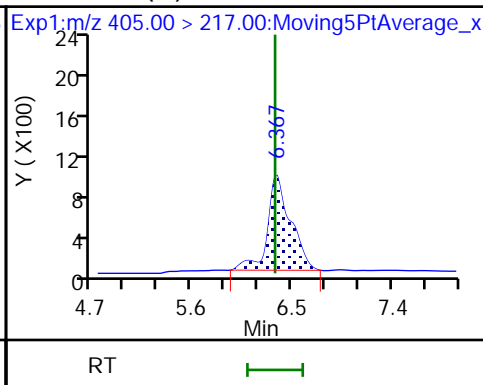
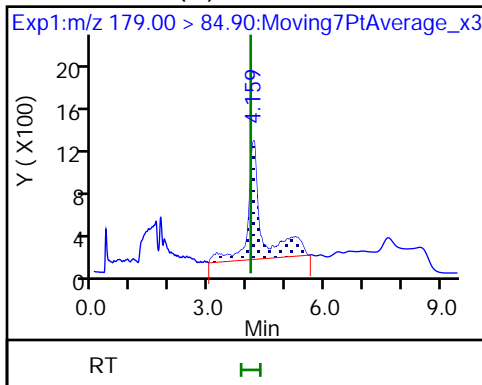
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

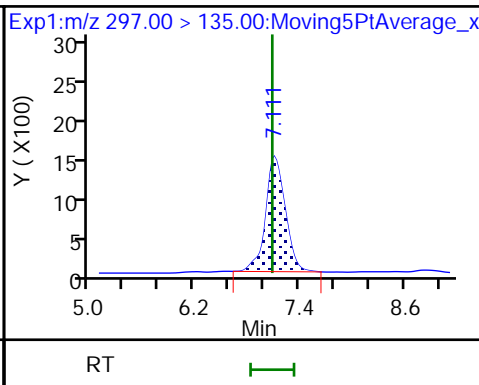
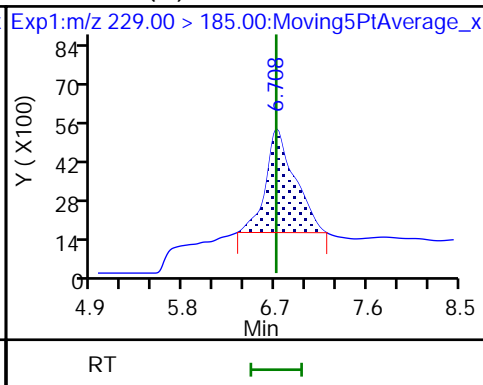
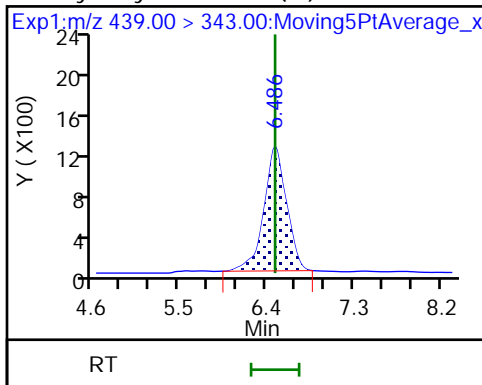
3 R-PSDA



4 Hydrolyzed PSDA (M)

23 PMPA (M)

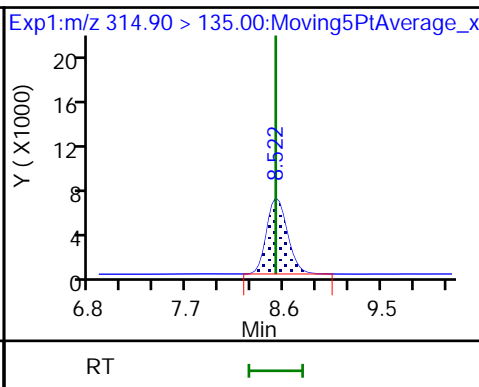
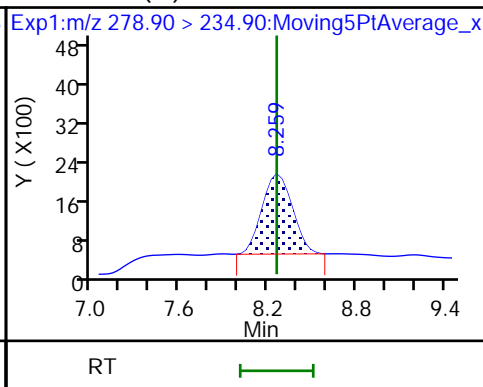
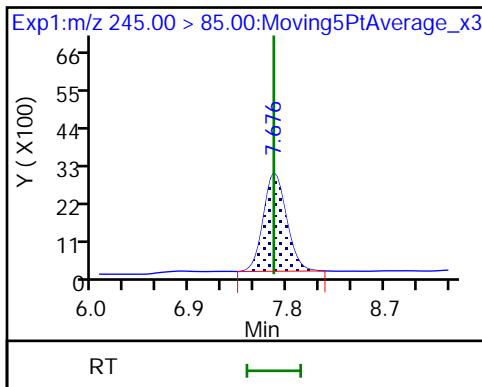
5 NVHOS



6 PFO2HxA

22 PEPA (M)

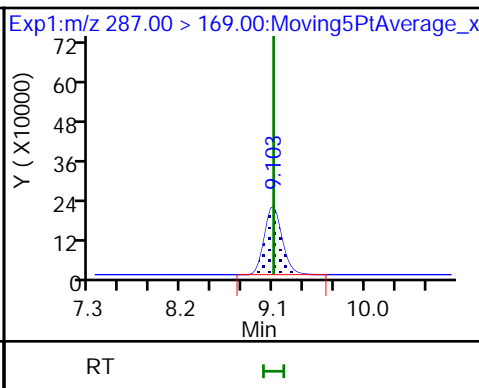
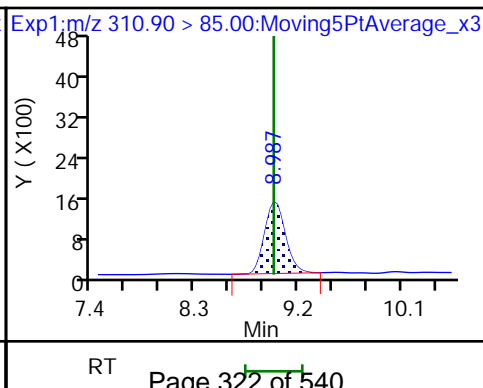
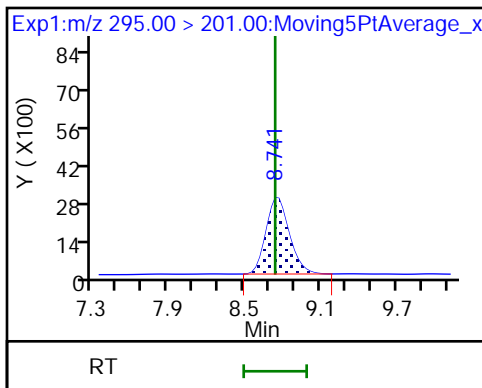
7 PES

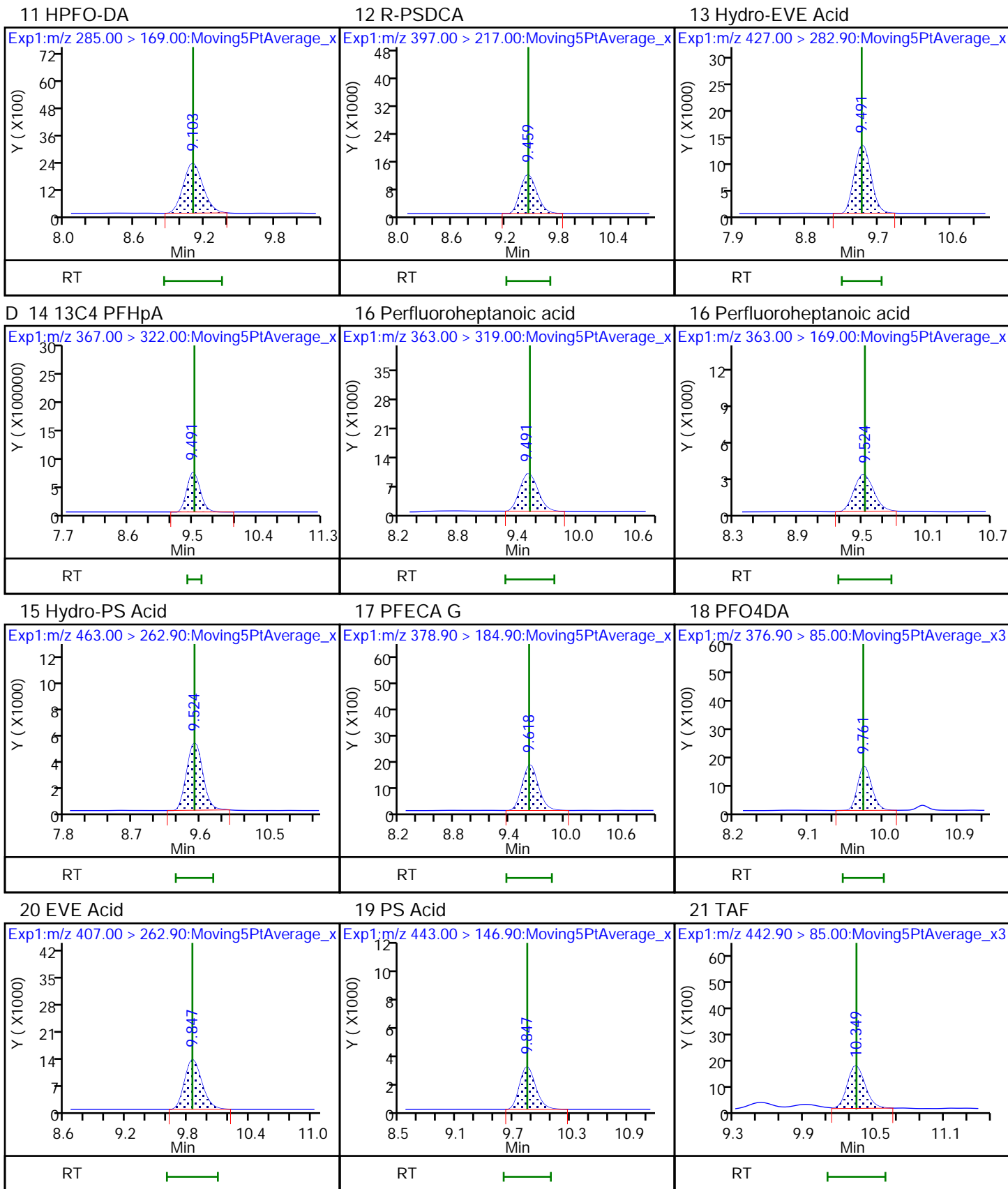


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

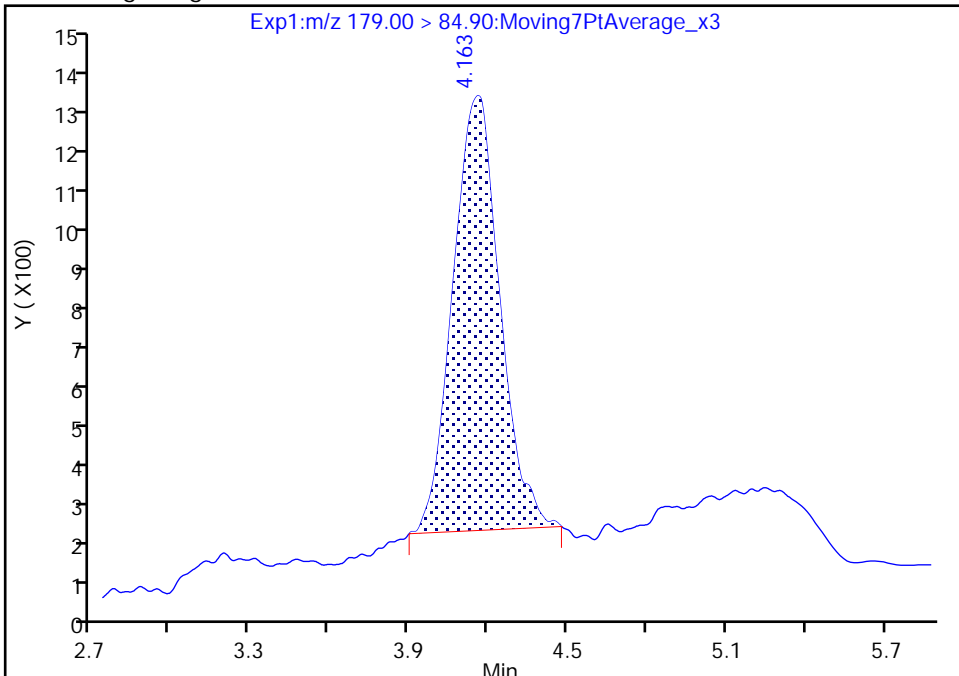
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Injection Date: 18-Feb-2021 19:06:24 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

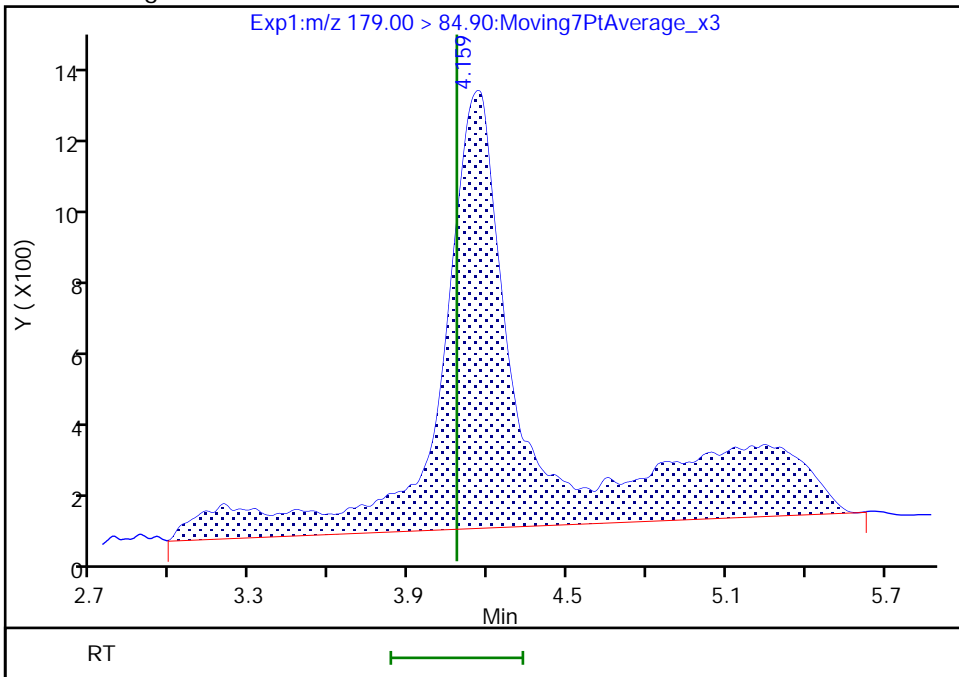
RT: 4.16  
Area: 12542  
Amount: 0.002001  
Amount Units: ng/ml

Processing Integration Results



RT: 4.16  
Area: 28631  
Amount: 0.002350  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:47:57

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

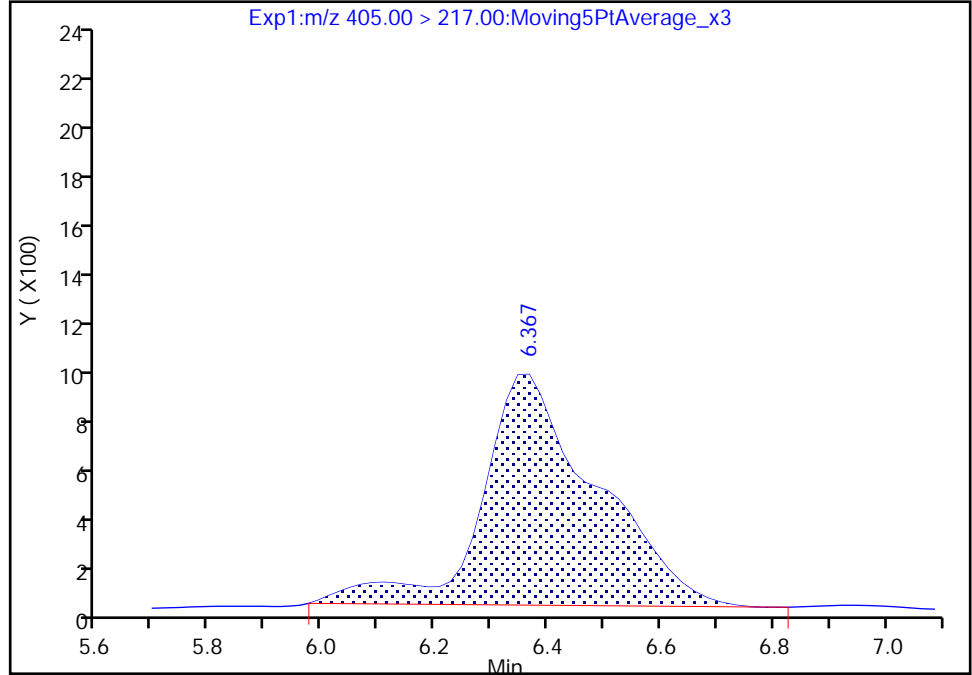
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_008.d  
Injection Date: 18-Feb-2021 19:06:24 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

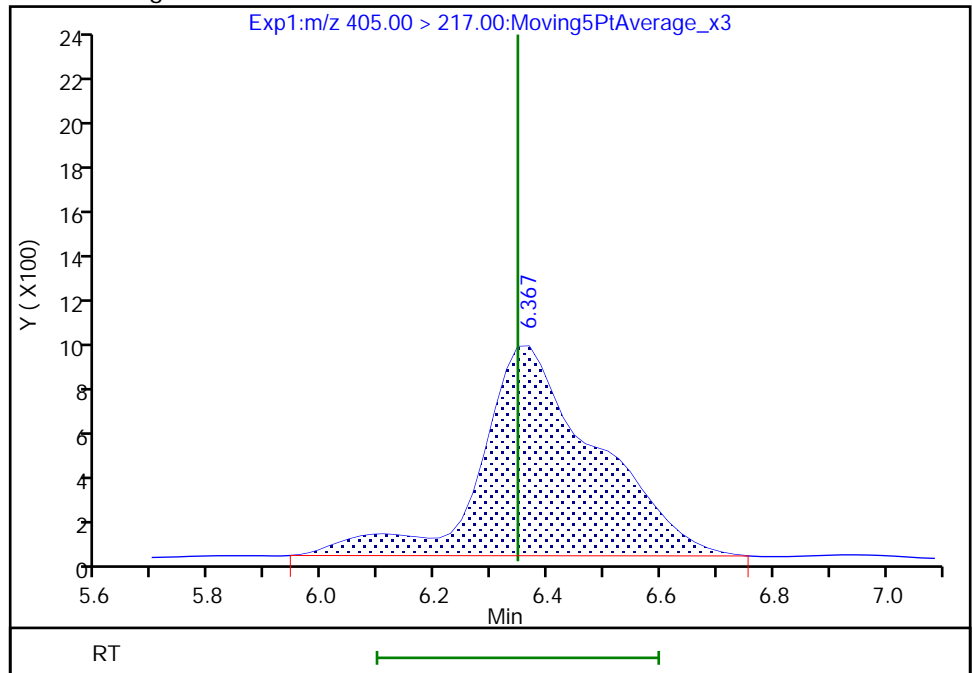
RT: 6.37  
Area: 13412  
Amount: 0.002307  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 13642  
Amount: 0.002313  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:10:26  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

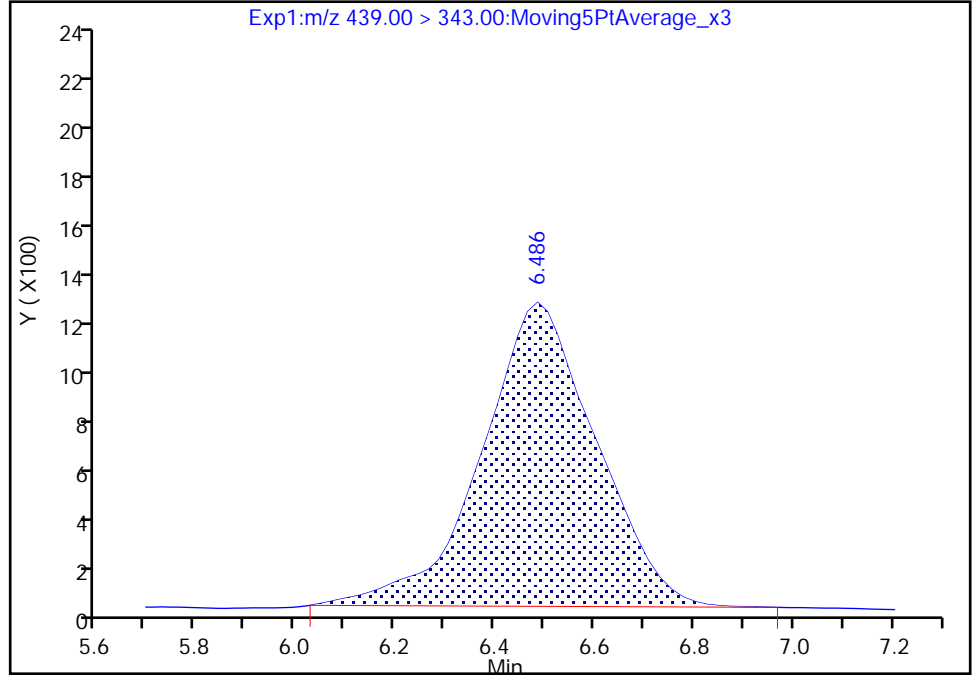
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Injection Date: 18-Feb-2021 19:06:24 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm ID) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

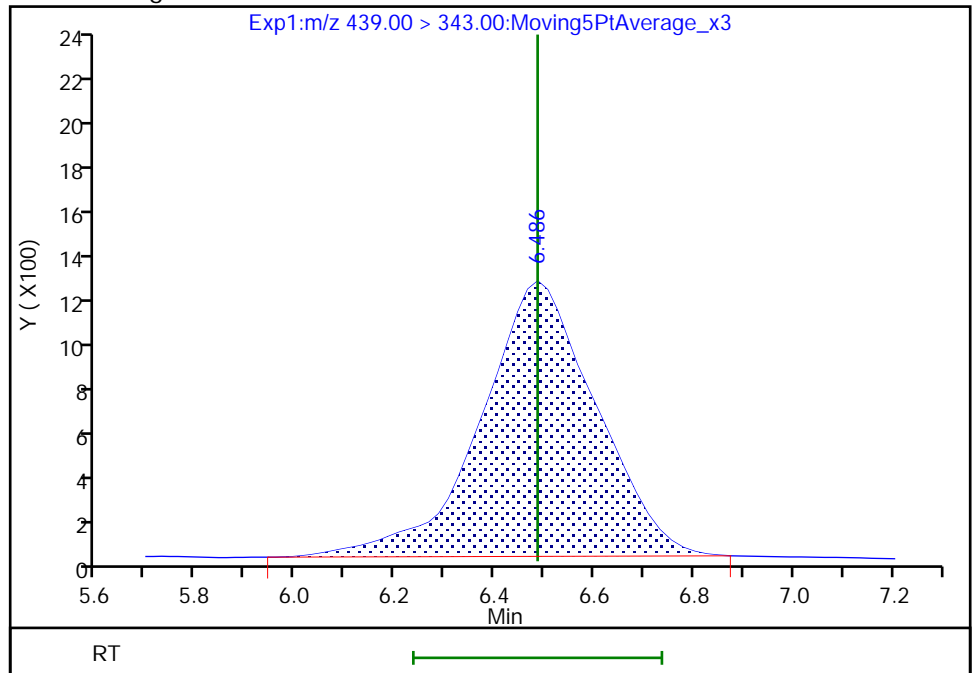
RT: 6.49  
Area: 19397  
Amount: 0.002341  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
Area: 19560  
Amount: 0.002321  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

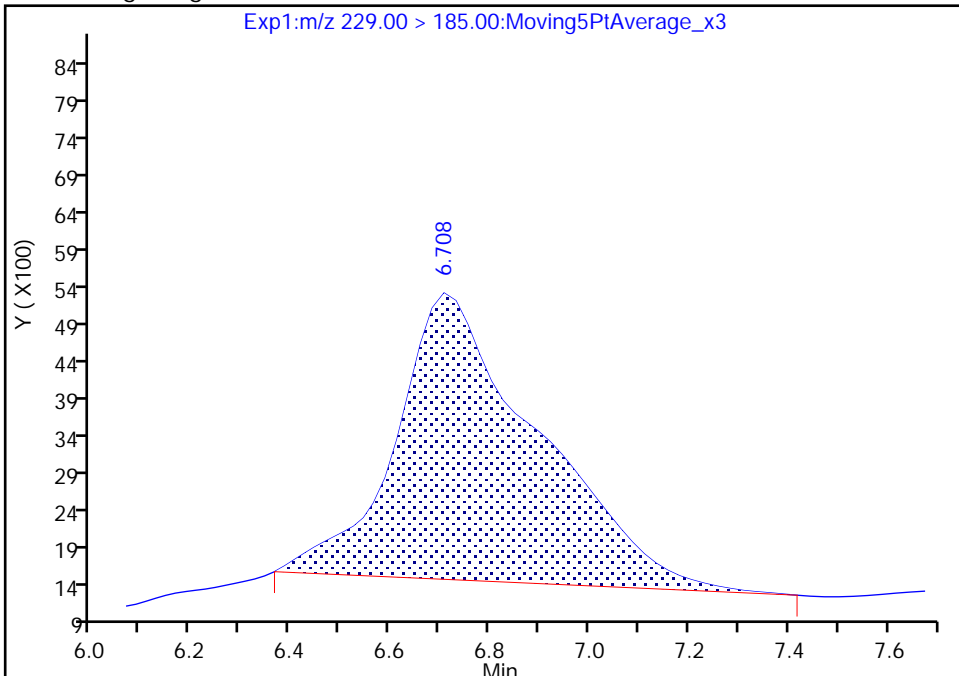
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_008.d  
 Injection Date: 18-Feb-2021 19:06:24 Instrument ID: A12  
 Lims ID: IC STD 2  
 Client ID:  
 Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

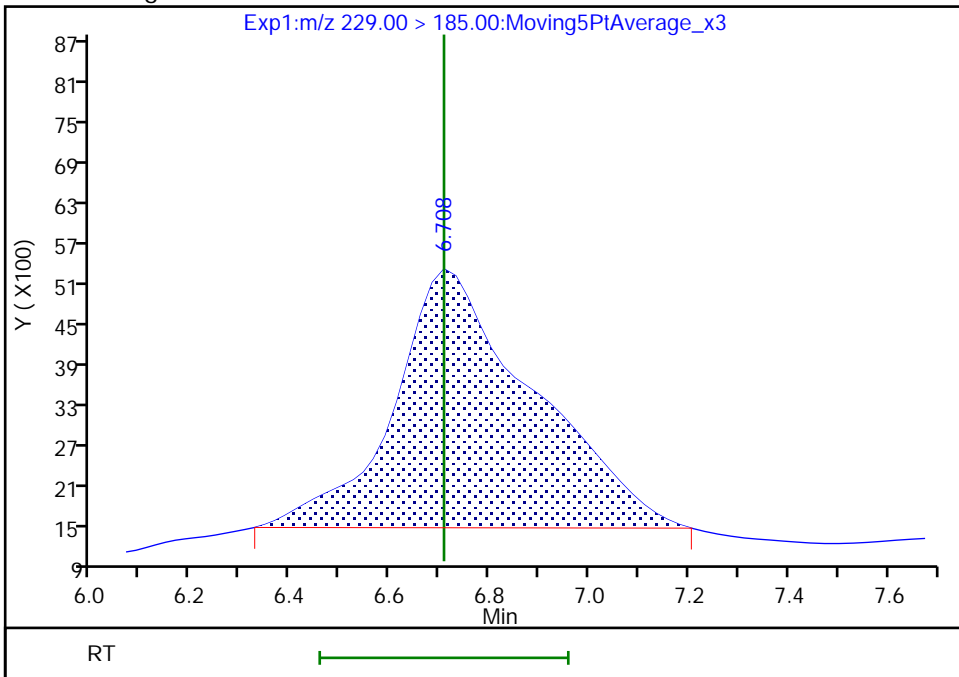
RT: 6.71  
 Area: 75974  
 Amount: 0.002709  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.71  
 Area: 74388  
 Amount: 0.003034  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 11:58:35  
 Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

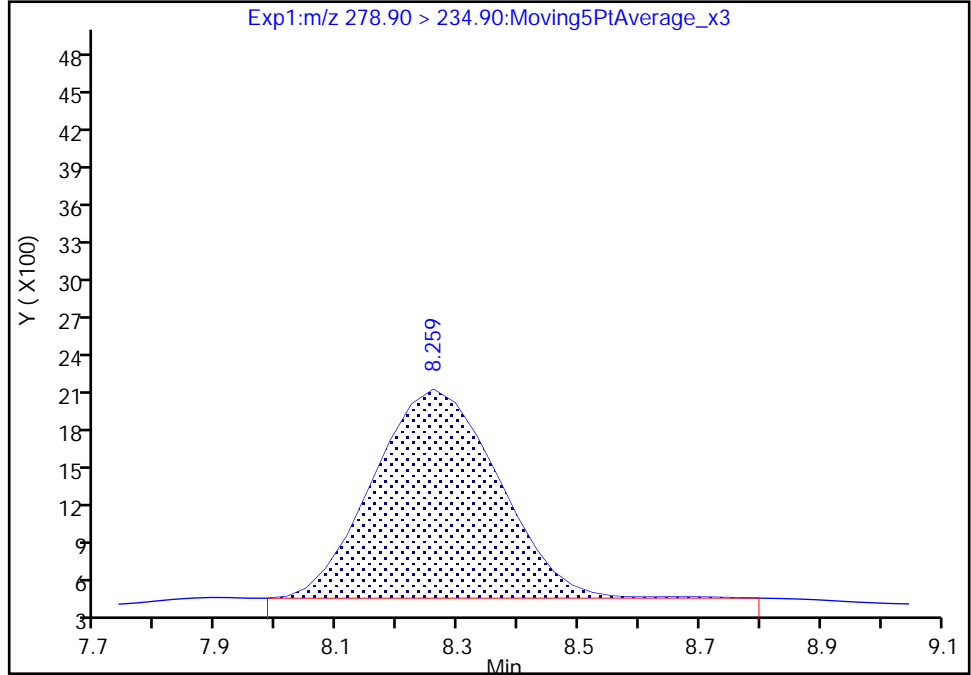
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Injection Date: 18-Feb-2021 19:06:24 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

22 PEPA, CAS: 267239-61-2

Signal: 1

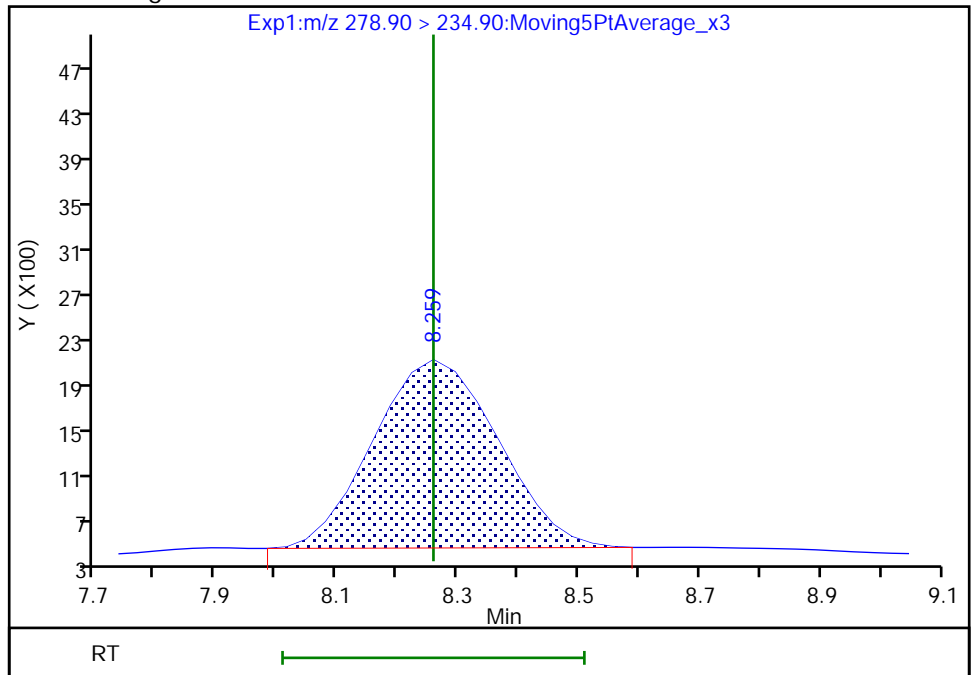
RT: 8.26  
Area: 24173  
Amount: 0.002298  
Amount Units: ng/ml

Processing Integration Results



RT: 8.26  
Area: 23940  
Amount: 0.002278  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:10:52  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_009.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 18-Feb-2021 19:23:56 ALS Bottle#: 9 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (46)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:11 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 20:56:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.112	4.081	0.031		59278	0.004866		97.3	8.0	M
2 R-EVE										
405.00 > 217.00	6.367	6.347	0.020		30974	0.005252		105	569	
3 R-PSDA										M
440.90 > 241.00	6.427	6.407	0.020		14746	0.005061		101	222	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.486	6.486	0.0		42957	0.005097		102	681	M
23 PMPA										M
229.00 > 185.00	6.708	6.708	0.0		135883	0.005543		111	82.0	M
5 NVHOS										M
297.00 > 135.00	7.111	7.087	0.024		46777	0.004947		98.9	772	M
6 PFO2HxA										
245.00 > 85.00	7.676	7.676	0.0		89972	0.005018		100	677	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		53247	0.005067		101	123	
7 PES										
314.90 > 135.00	8.522	8.522	0.0		178459	0.004856		97.1	4501	
8 PFECA B										M
295.00 > 201.00	8.770	8.740	0.030		81194	0.005425		109	1606	M
9 PFO3OA										M
310.90 > 85.00	8.987	8.986	0.001		41634	0.005195		104	671	M
11 HPFO-DA										
285.00 > 169.00	9.103	9.102	0.001	1.000	53422	0.004928		98.6	1518	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.103	9.102	0.001		2415472	0.2544		102	67874	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.459	9.458	0.001		343405	0.005614		112	6664	
13 Hydro-EVE Acid										
427.00 > 282.90	9.491	9.490	0.001		407080	0.005236		105	4686	
D 14 13C4 PFHpA										
367.00 > 322.00	9.524	9.523	0.001		10248995	0.2840		114	197403	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.524	9.523	0.001	1.000	220582	0.004505	Target=0.00	90.1	747	
363.00 > 169.00	9.524	9.523	0.001	1.000	69459		3.18(0.00-0.00)	90.1	1085	
15 Hydro-PS Acid										
463.00 > 262.90	9.524	9.523	0.001		166726	0.005186		104	3703	
17 PFECA G										
378.90 > 184.90	9.618	9.616	0.002		51544	0.005733		115	1404	
18 PFO4DA										
376.90 > 85.00	9.761	9.760	0.001		49623	0.006099		122	1041	
20 EVE Acid										
407.00 > 262.90	9.847	9.846	0.001		306126	0.005186		104	8711	
19 PS Acid										
443.00 > 146.90	9.847	9.846	0.001		77215	0.005340		107	2214	
21 TAF										
442.90 > 85.00	10.349	10.348	0.001		39512	0.005557		111	159	

**QC Flag Legend**

Processing Flags

Review Flags

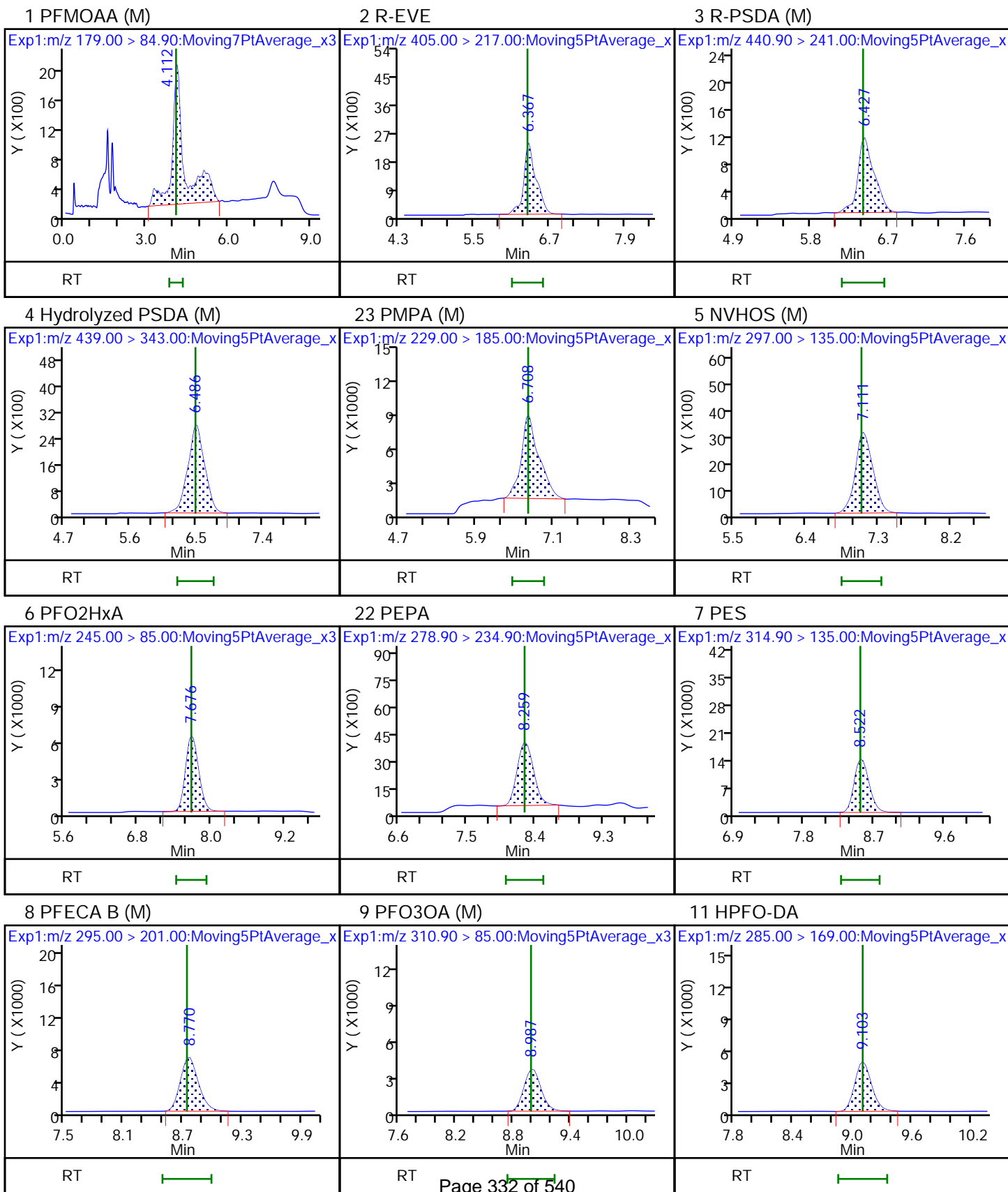
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00046

Amount Added: 1.00

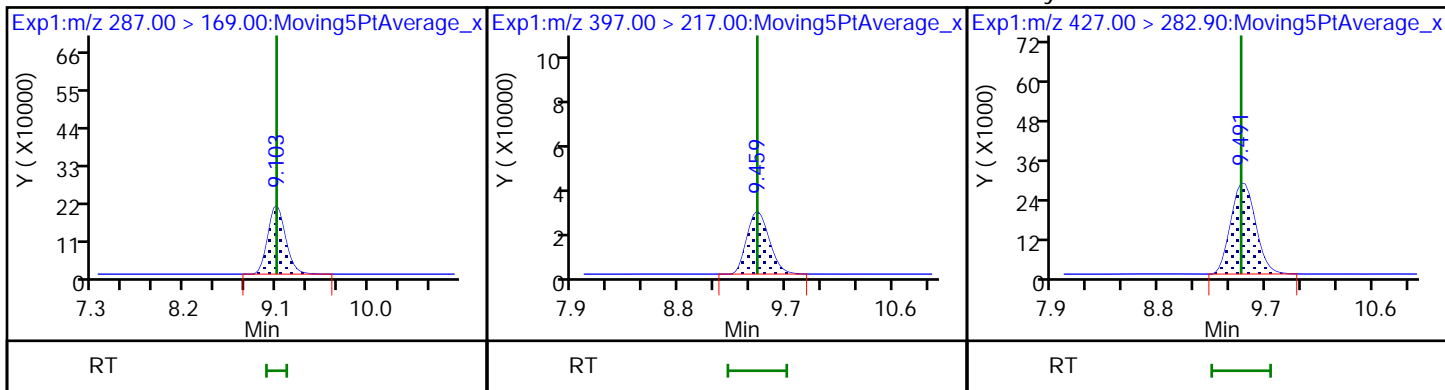
Units: mL



D 10 13C3 HFPO-DA

12 R-PSDCA

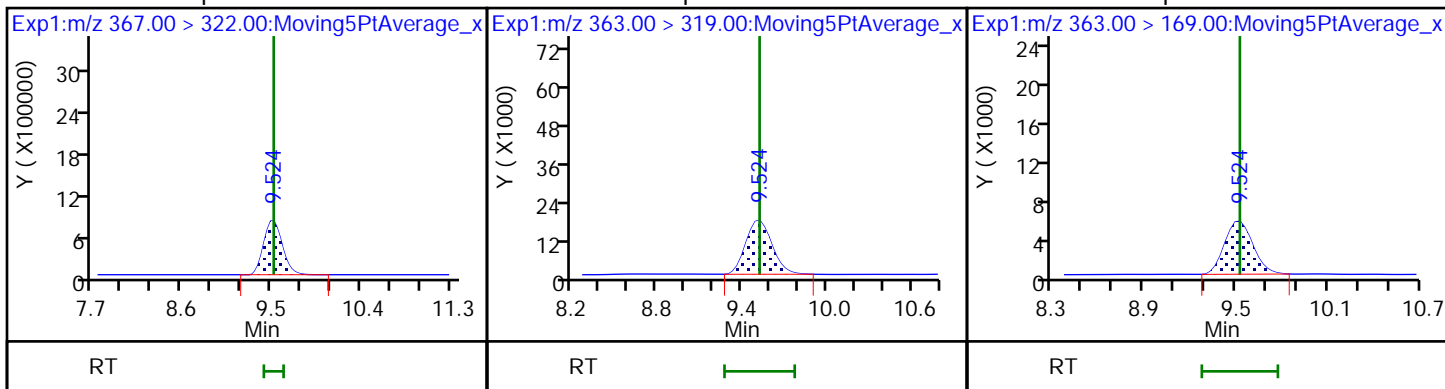
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

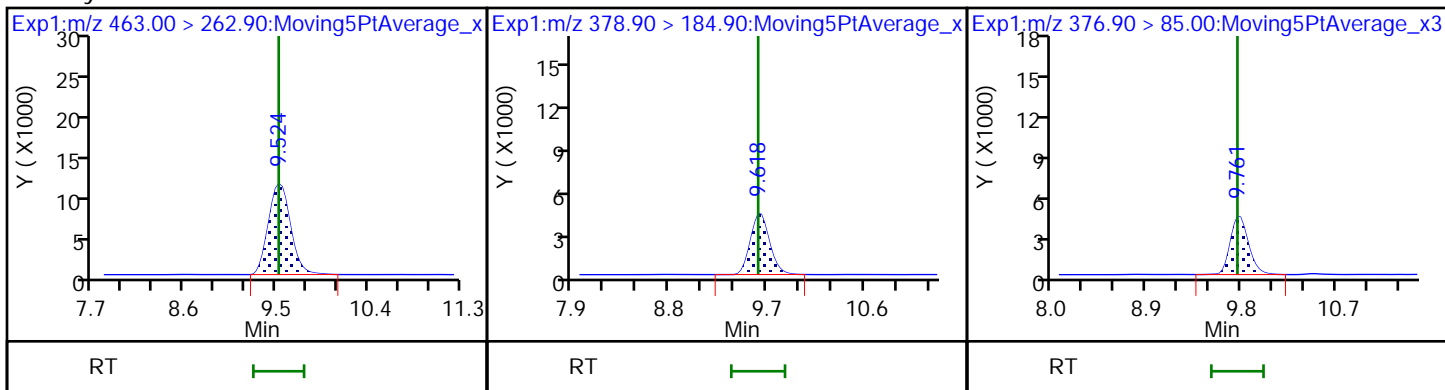
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

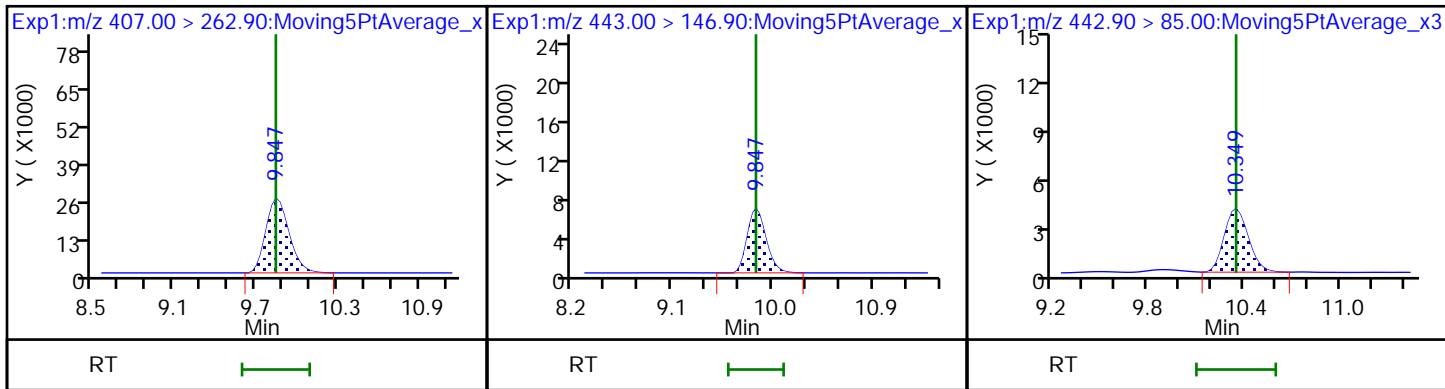
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

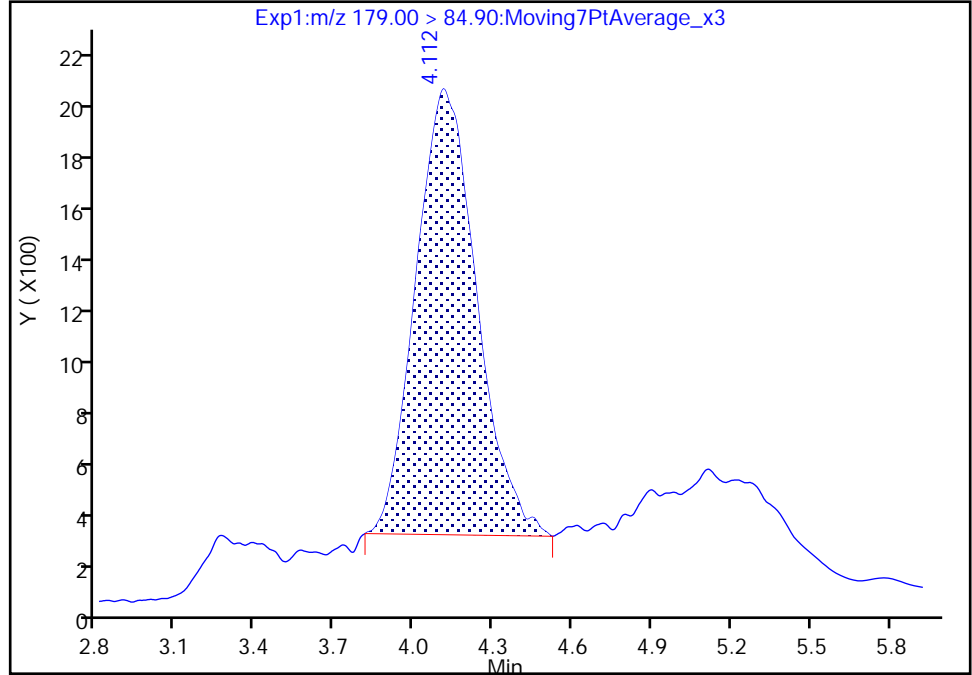
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Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

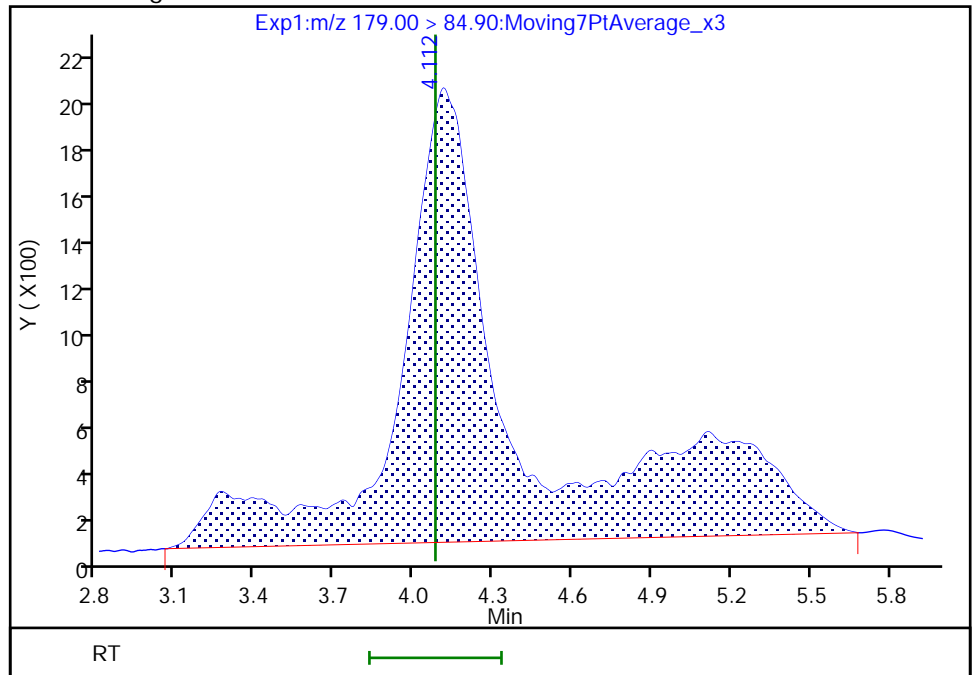
RT: 4.11  
Area: 26243  
Amount: 0.003813  
Amount Units: ng/ml

Processing Integration Results



RT: 4.11  
Area: 59278  
Amount: 0.004866  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

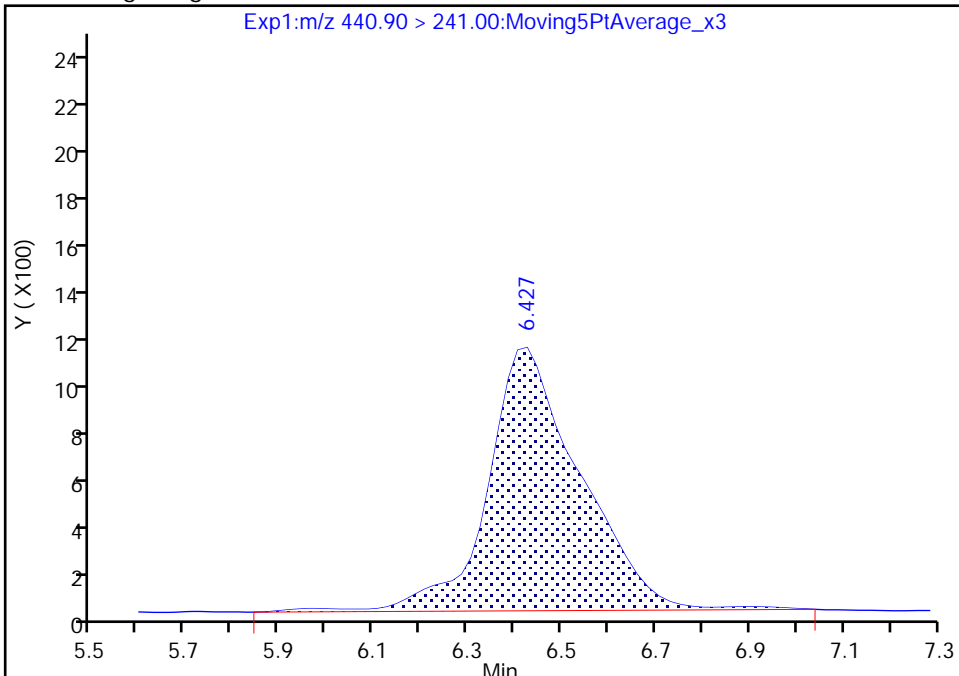
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Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

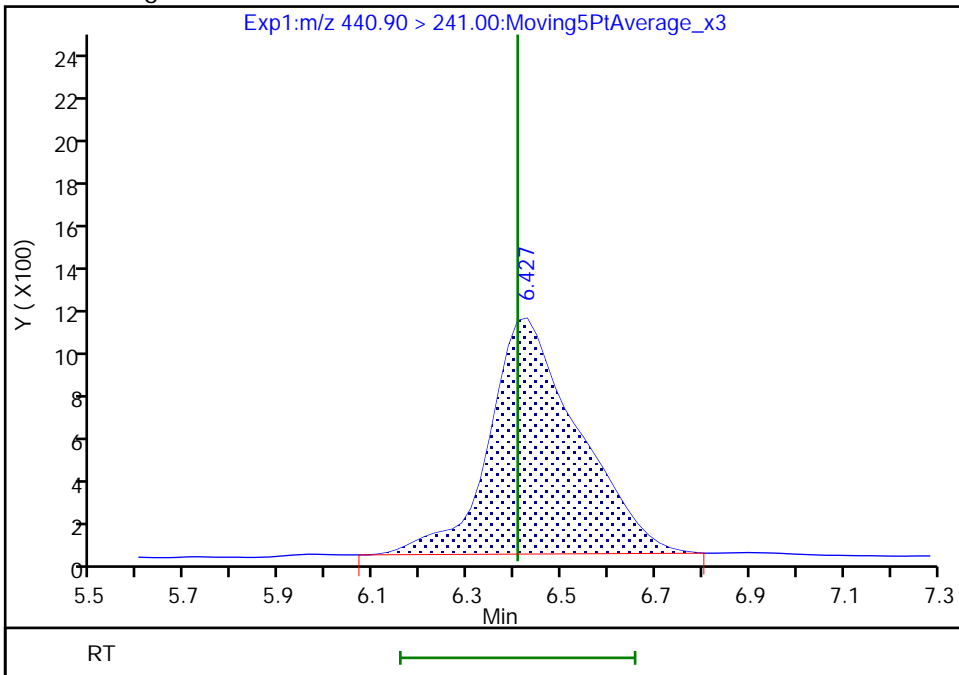
RT: 6.43  
Area: 15429  
Amount: 0.005149  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 14746  
Amount: 0.005061  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:28  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

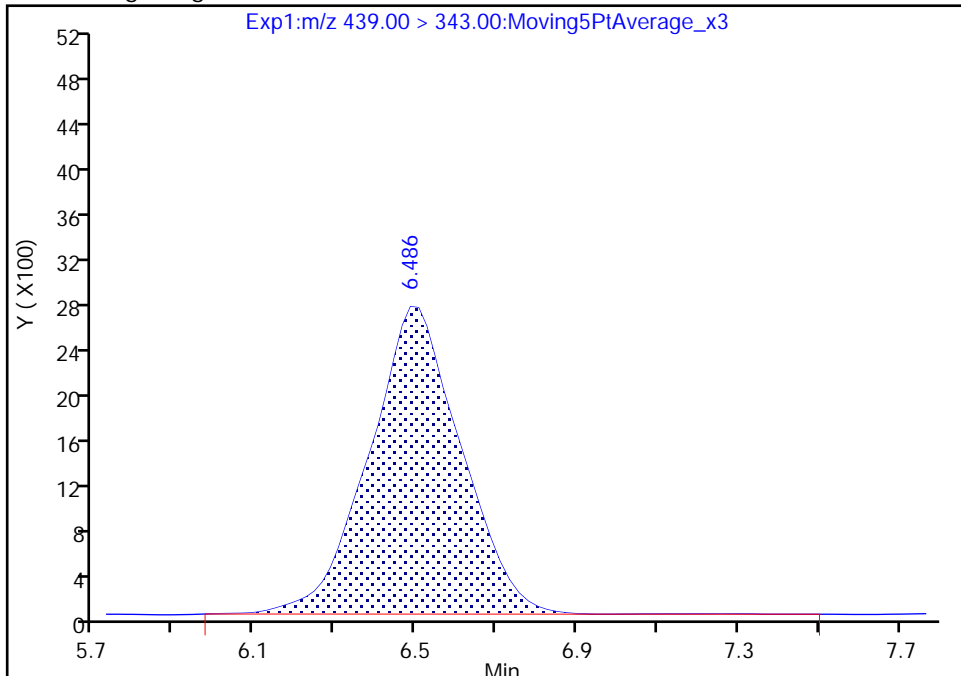
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_009.d  
Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

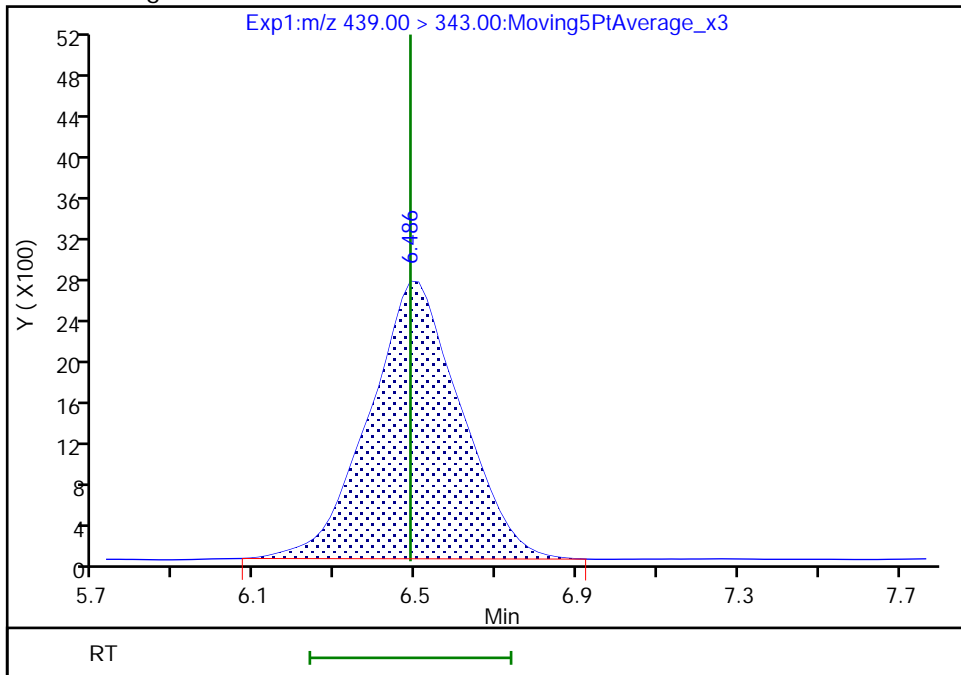
RT: 6.49  
Area: 43210  
Amount: 0.005212  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
Area: 42957  
Amount: 0.005097  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:33  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

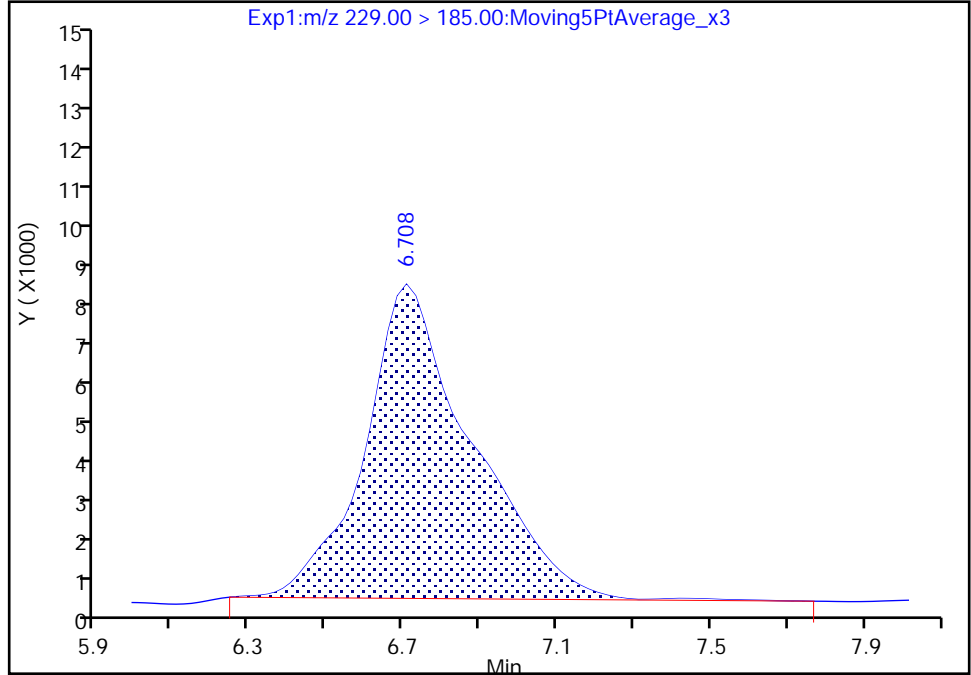
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Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

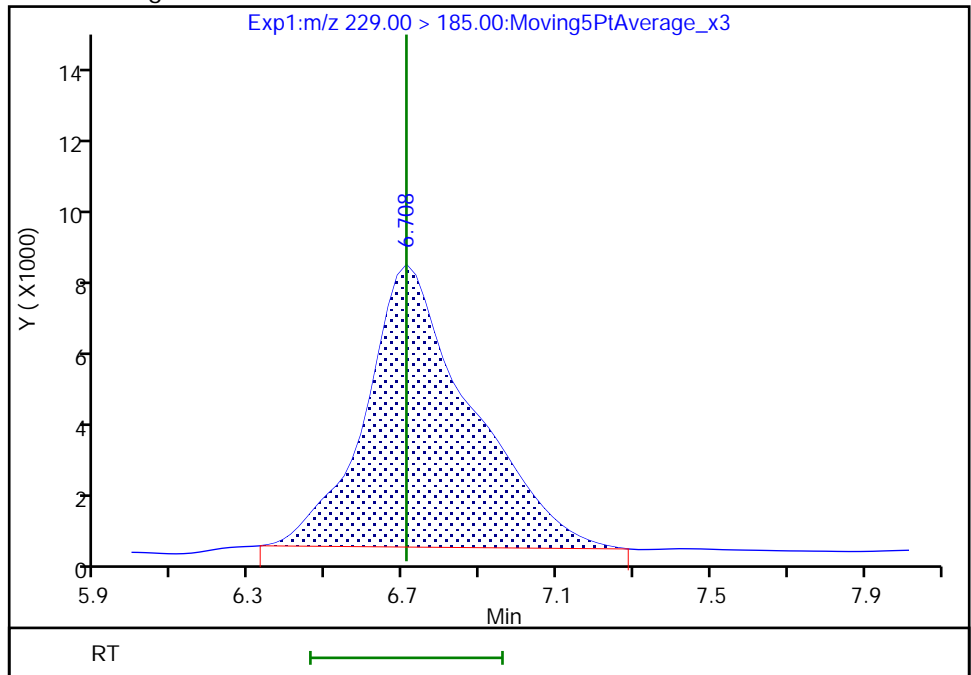
RT: 6.71  
Area: 138670  
Amount: 0.004625  
Amount Units: ng/ml

Processing Integration Results



RT: 6.71  
Area: 135883  
Amount: 0.005543  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:38  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 338 of 540

Eurofins TestAmerica, Sacramento

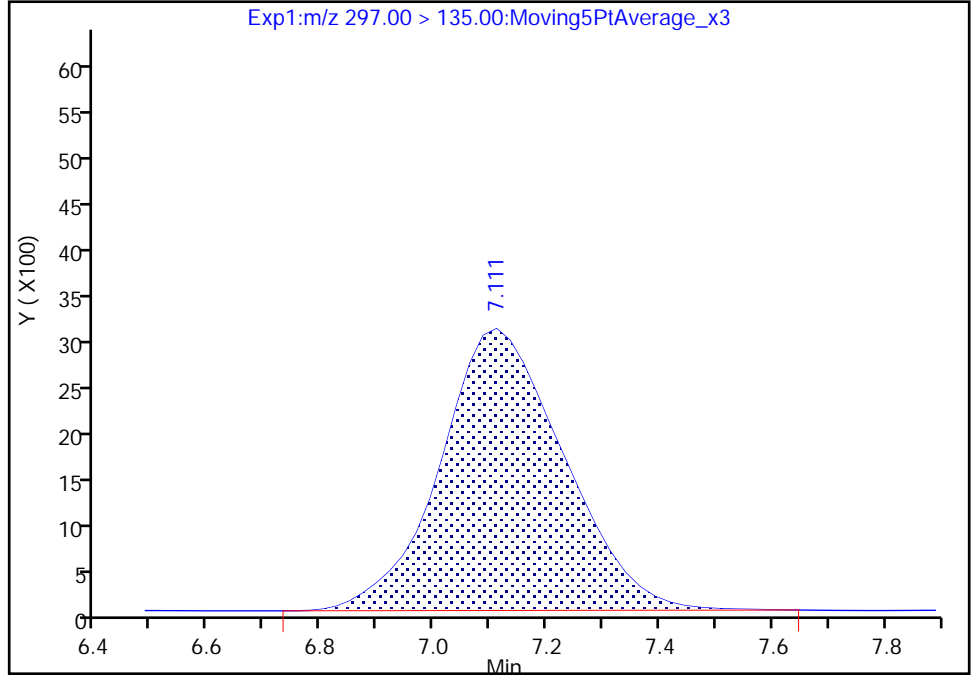
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 Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
 Lims ID: IC STD 3  
 Client ID:  
 Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

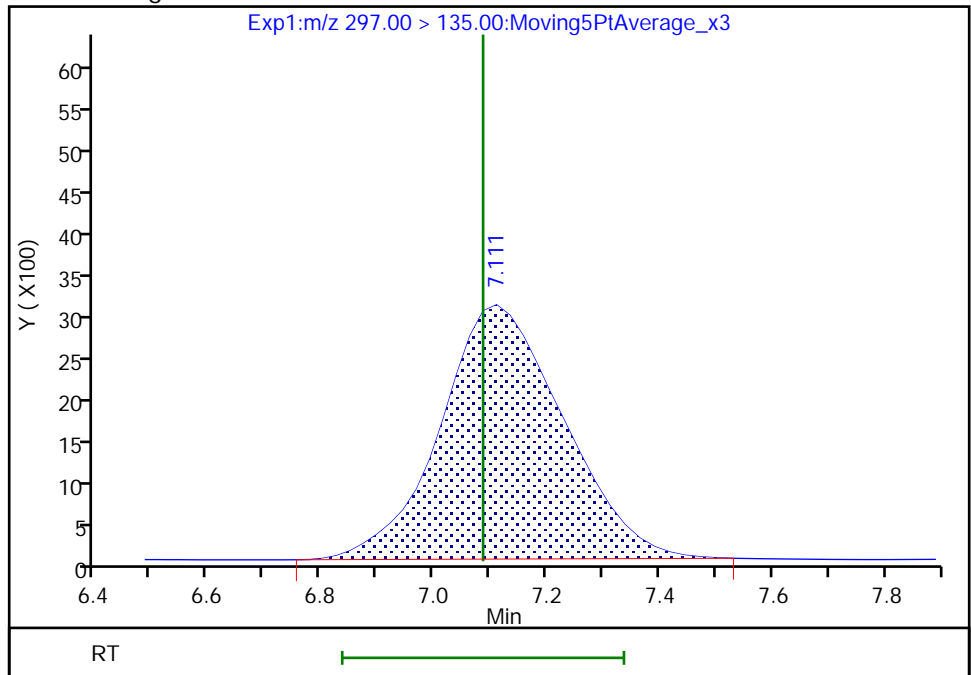
RT: 7.11  
 Area: 47090  
 Amount: 0.004977  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.11  
 Area: 46777  
 Amount: 0.004947  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:45  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

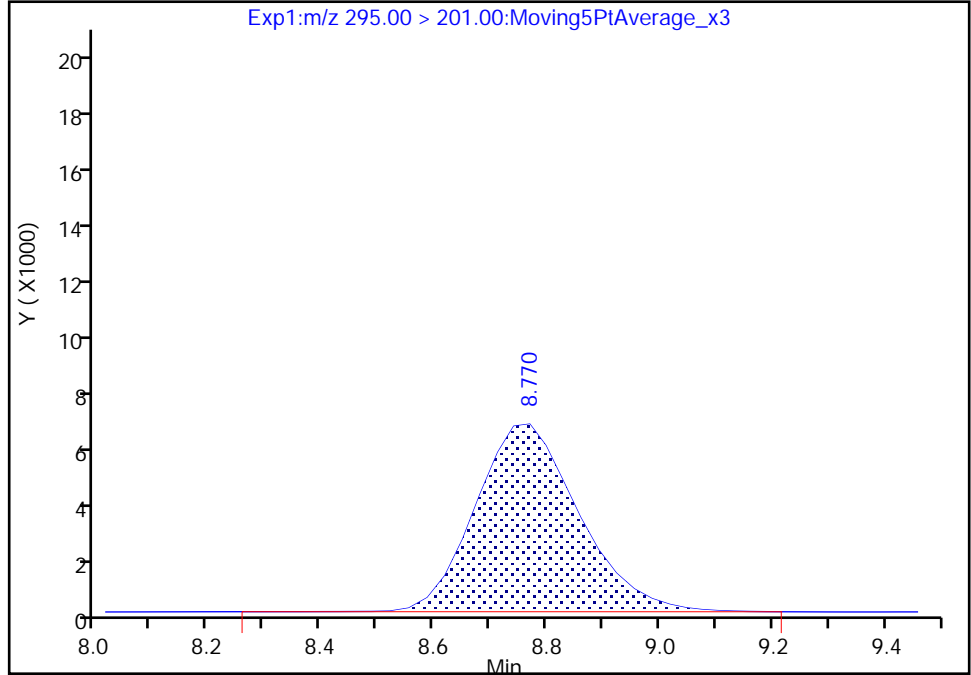
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_009.d  
Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

8 PFECA B, CAS: 151772-58-6

Signal: 1

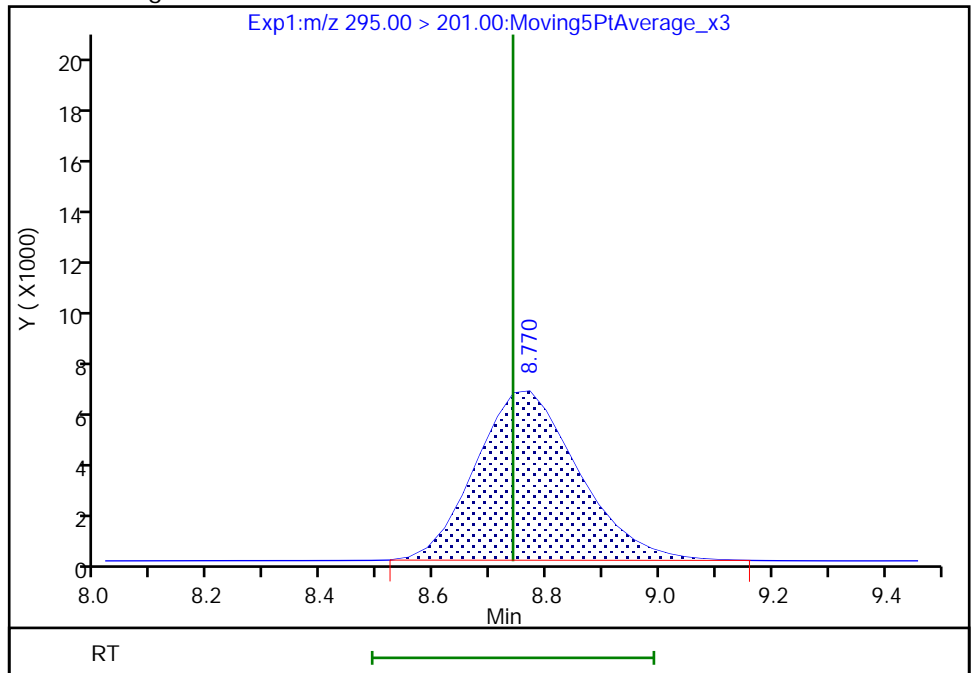
RT: 8.77  
Area: 81884  
Amount: 0.005466  
Amount Units: ng/ml

Processing Integration Results



RT: 8.77  
Area: 81194  
Amount: 0.005425  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:52  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

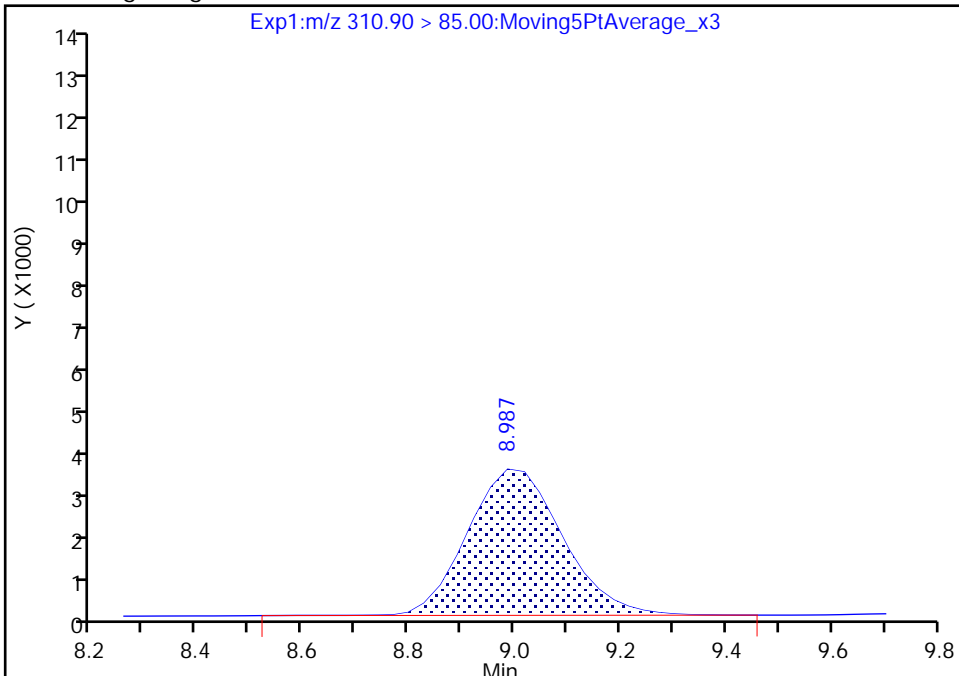
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Injection Date: 18-Feb-2021 19:23:56 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

9 PFO3OA, CAS: 39492-89-2

Signal: 1

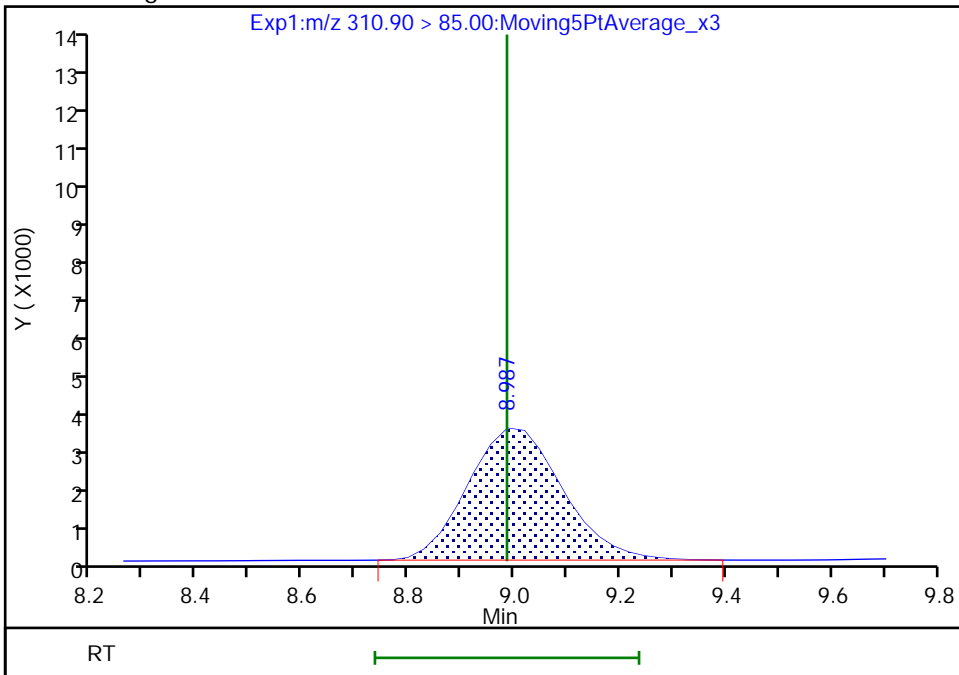
RT: 8.99  
Area: 41862  
Amount: 0.005221  
Amount Units: ng/ml

Processing Integration Results



RT: 8.99  
Area: 41634  
Amount: 0.005195  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:08:57  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_010.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 18-Feb-2021 19:41:34 ALS Bottle#: 10 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (45)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:13 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 20:56:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.741	4.081	-0.340		120600	0.009899		99.0	4.9	M
2 R-EVE										M
405.00 > 217.00	6.327	6.347	-0.020		59014	0.0100		100	846	M
3 R-PSDA										M
440.90 > 241.00	6.367	6.407	-0.040		28931	0.0099		99.3	352	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.447	6.486	-0.039		84408	0.0100		100	1512	
23 PMPA										M
229.00 > 185.00	6.661	6.708	-0.047		252631	0.0103		103	133	M
5 NVHOS										
297.00 > 135.00	7.087	7.087	0.0		93668	0.0099		99.1	1560	
6 PFO2HxA										
245.00 > 85.00	7.676	7.676	0.0		179433	0.0100		100	1190	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		109420	0.0104		104	210	
7 PES										
314.90 > 135.00	8.522	8.522	0.0		357831	0.009736		97.4	8785	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		151112	0.0101		101	3936	
9 PFO3OA										
310.90 > 85.00	8.986	8.986	0.0		91931	0.0115		115	1466	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2513463	0.2647		106	69849	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	111391	0.009875		98.8	3128	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.458	9.458	0.0		612192	0.0100		100	11839	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		763774	0.009823		98.2	8808	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		9258381	0.2565		103	177338	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.523	9.523	0.0	1.003	413555	0.009893	Target=0.00	98.9	1141	
363.00 > 169.00	9.523	9.523	0.0	1.003	117267		3.53(0.00-0.00)	98.9	2253	
15 Hydro-PS Acid										
463.00 > 262.90	9.523	9.523	0.0		313052	0.009737		97.4	6986	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		84693	0.009420		94.2	2312	
18 PFO4DA										
376.90 > 85.00	9.760	9.760	0.0		66987	0.008233		82.3	1126	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		587595	0.0100		99.5	16720	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		148679	0.0103		103	4255	
21 TAF										
442.90 > 85.00	10.348	10.348	0.0		60760	0.008545		85.5	181	

**QC Flag Legend**

Processing Flags

Review Flags

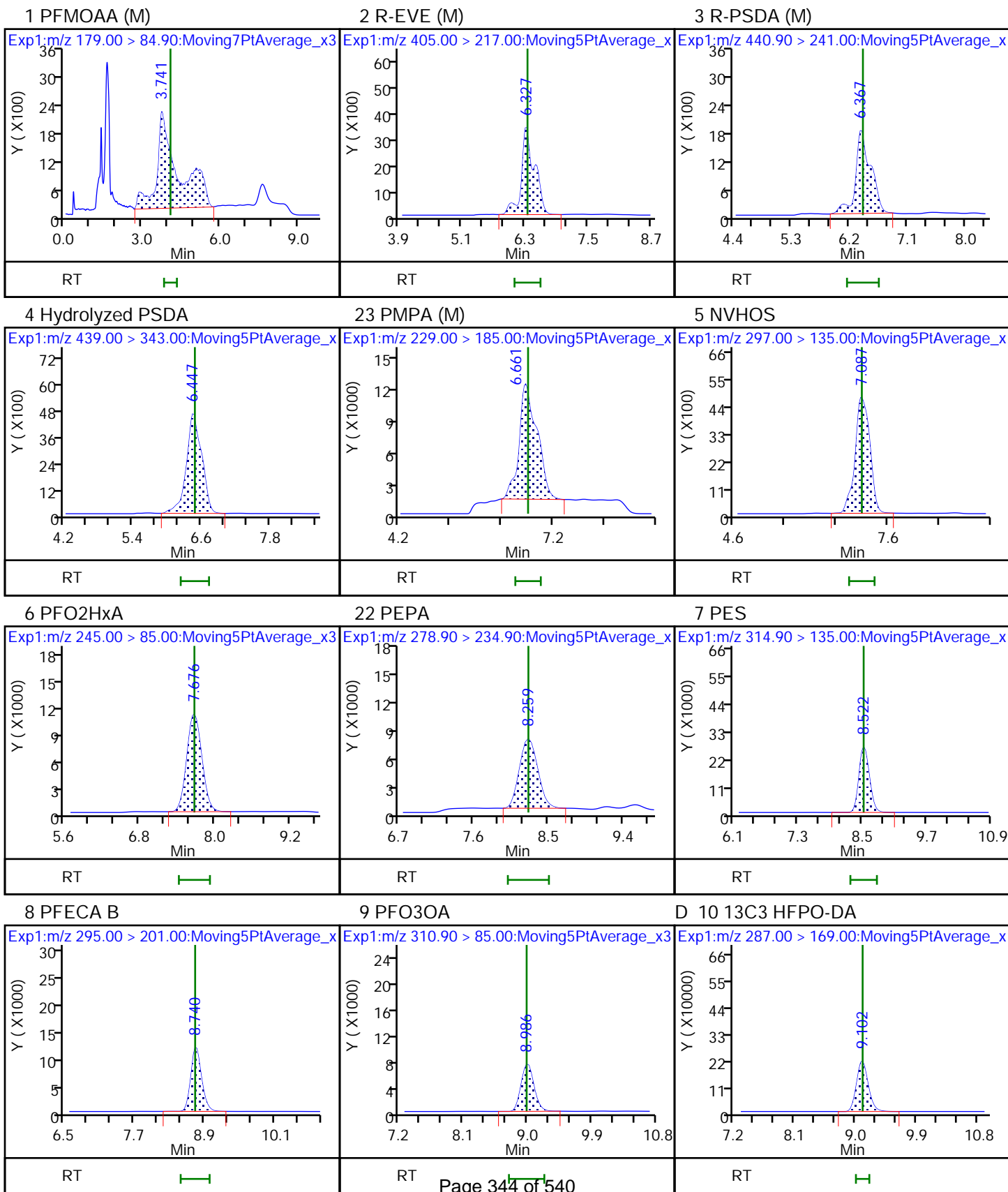
M - Manually Integrated

**Reagents:**

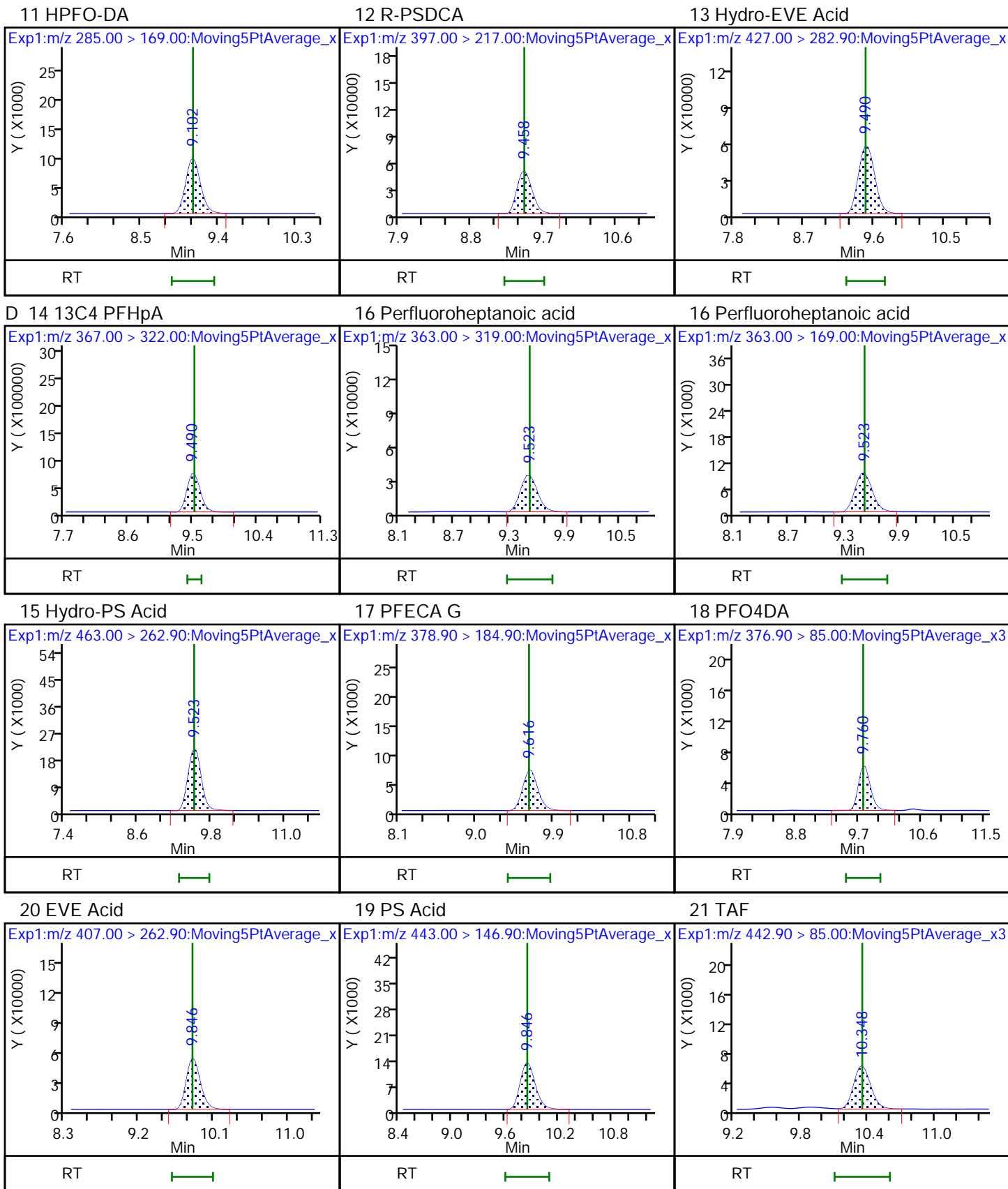
LCTB3\_LLSTD4\_00045

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

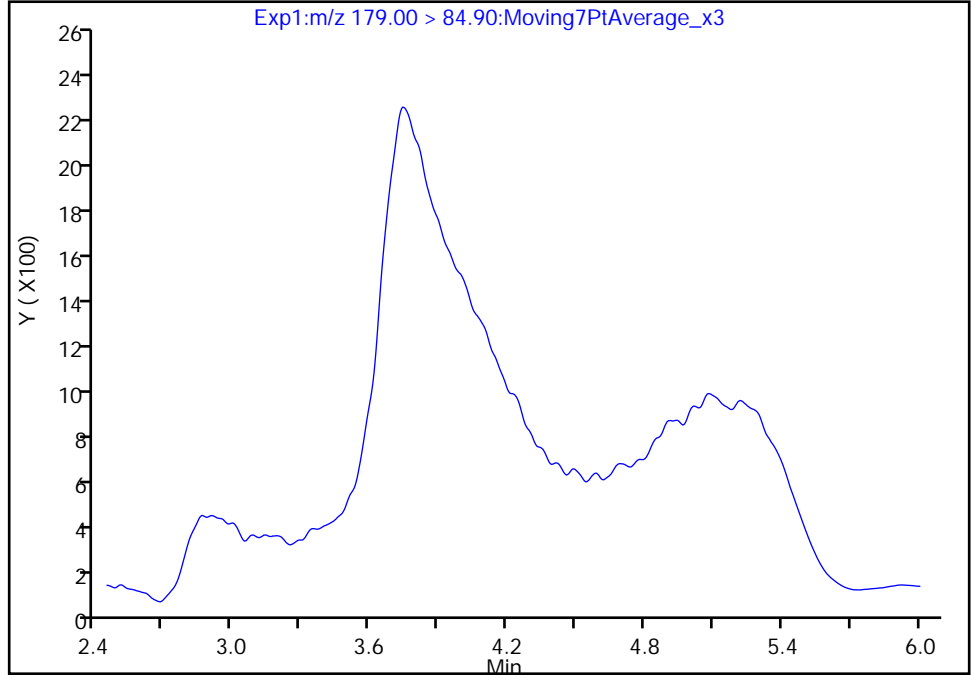
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_010.d  
Injection Date: 18-Feb-2021 19:41:34 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

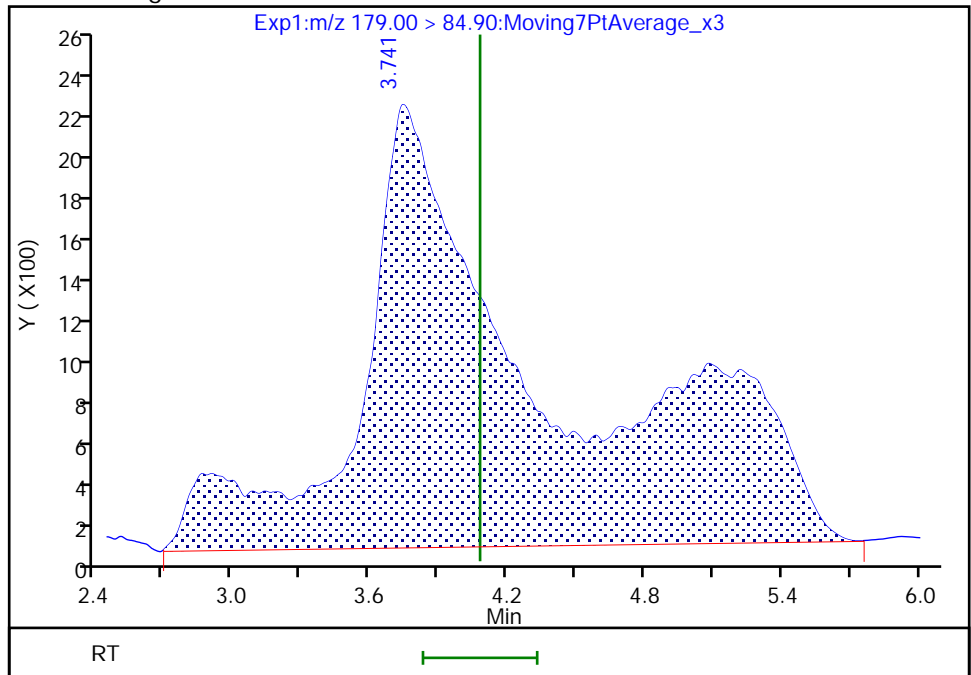
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 3.74  
Area: 120600  
Amount: 0.009899  
Amount Units: ng/ml



Reviewer: phomsophat, 18-Feb-2021 22:47:28

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

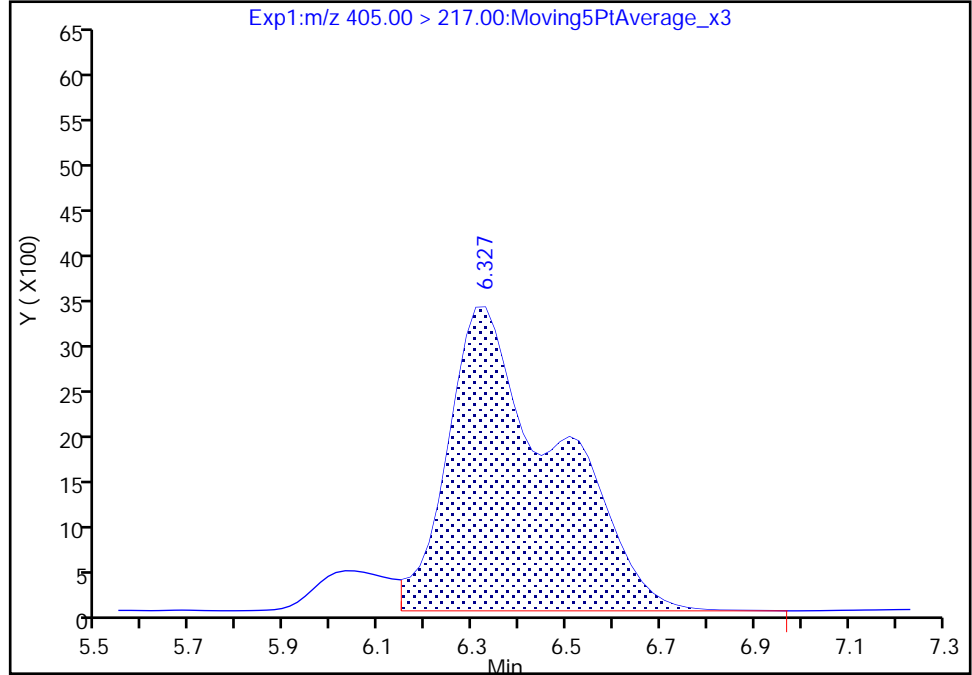
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Injection Date: 18-Feb-2021 19:41:34 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

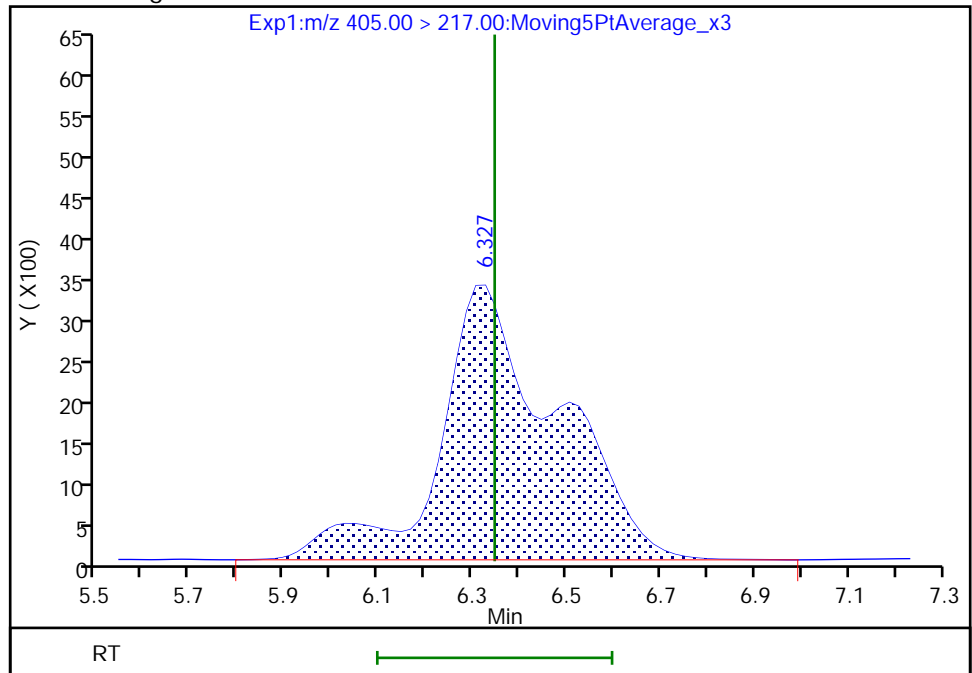
RT: 6.33  
Area: 54149  
Amount: 0.009781  
Amount Units: ng/ml

Processing Integration Results



RT: 6.33  
Area: 59014  
Amount: 0.010007  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

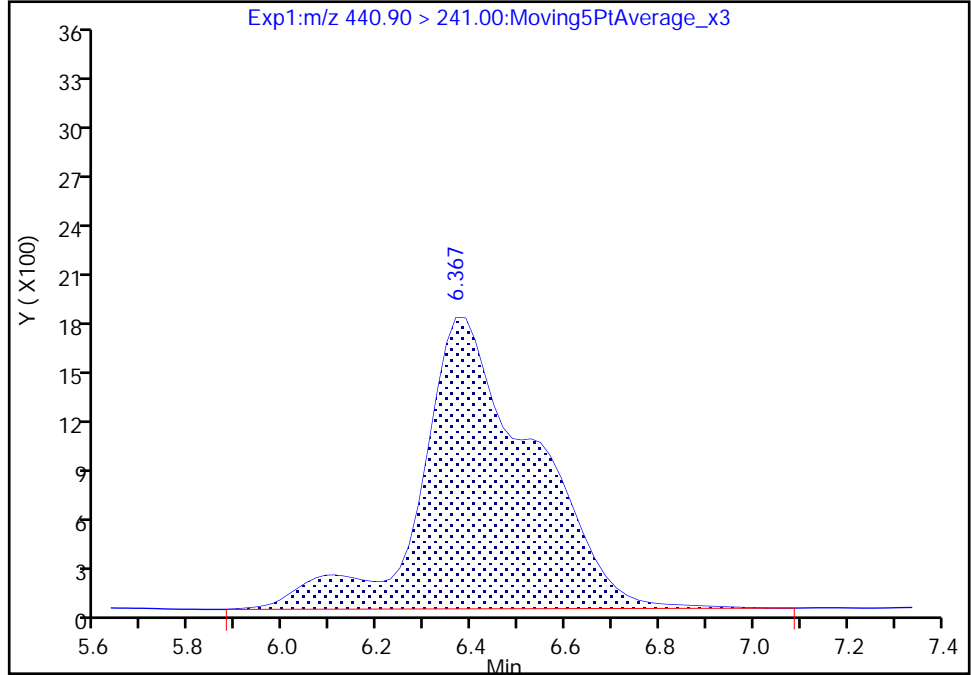
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Injection Date: 18-Feb-2021 19:41:34 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

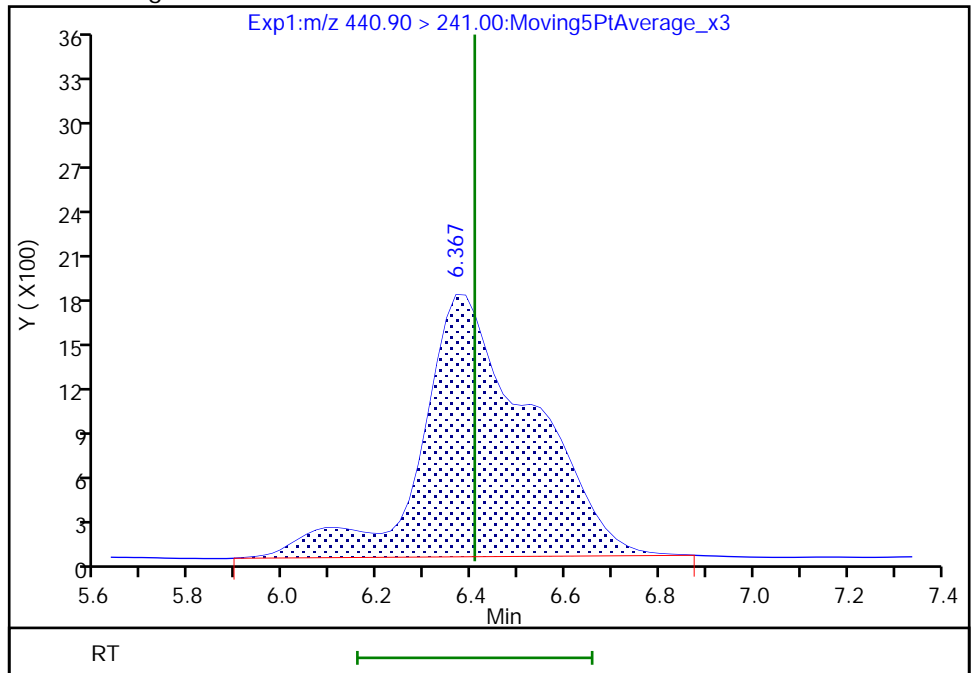
RT: 6.37  
Area: 29507  
Amount: 0.009828  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 28931  
Amount: 0.009930  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:07:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

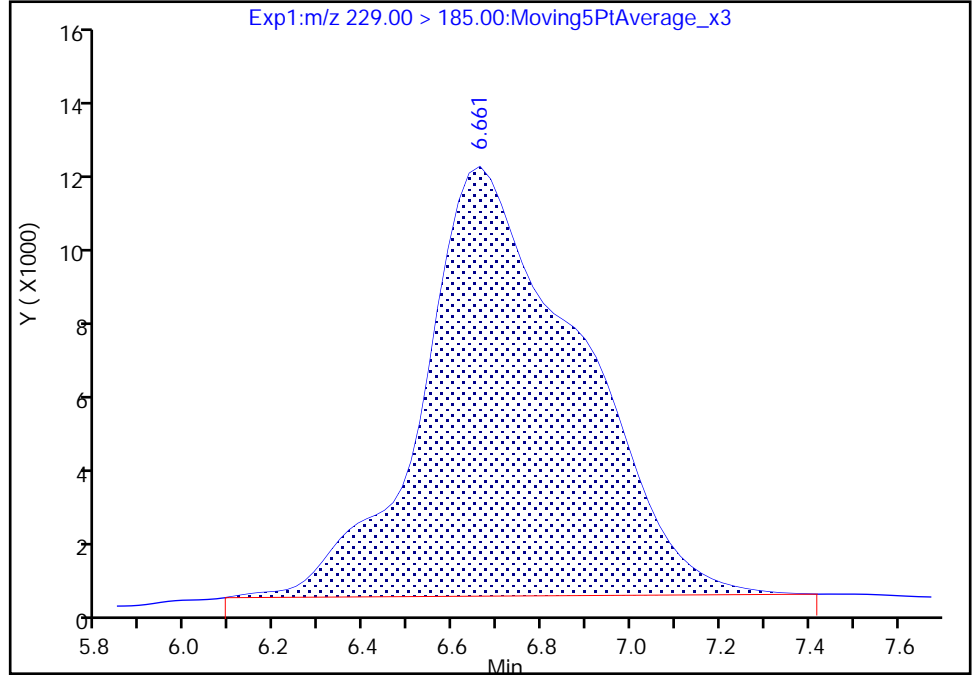
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Injection Date: 18-Feb-2021 19:41:34 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

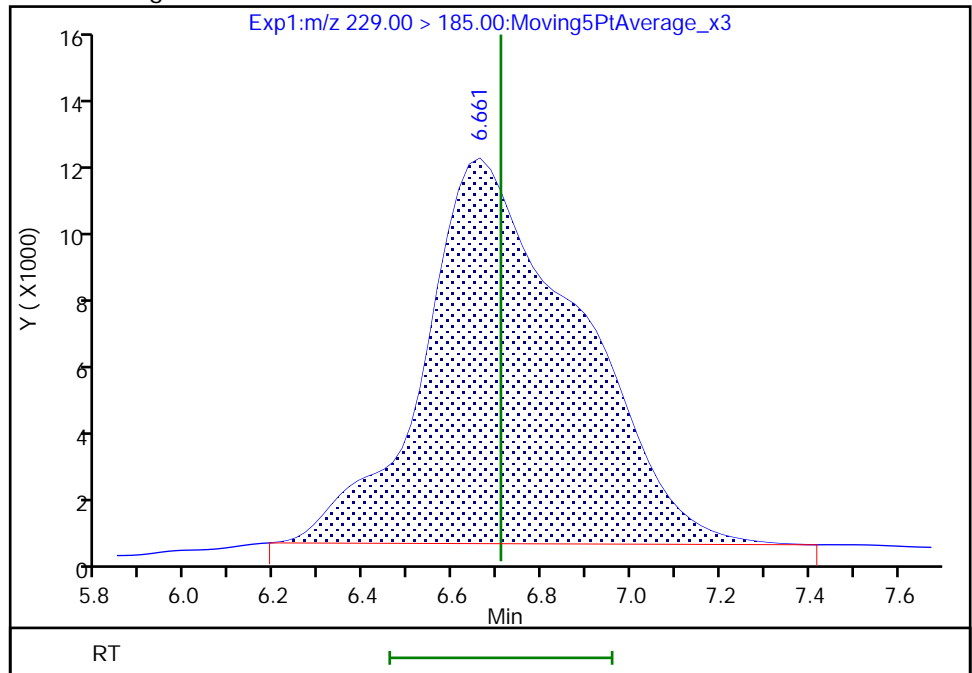
RT: 6.66  
Area: 257899  
Amount: 0.009921  
Amount Units: ng/ml

Processing Integration Results



RT: 6.66  
Area: 252631  
Amount: 0.010305  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:07:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_011.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 18-Feb-2021 19:59:06 ALS Bottle#: 11 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (55)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:14 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 20:56:39

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.094	4.081	0.013		310108	0.0255		102	25.3	M
2 R-EVE										M
405.00 > 217.00	6.347	6.347	0.0		146873	0.0249		99.6	2061	M
3 R-PSDA										
440.90 > 241.00	6.406	6.407	-0.001		72984	0.0251		100	1272	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.466	6.486	-0.020		210375	0.0250		99.8	4356	
23 PMPA										
229.00 > 185.00	6.684	6.708	-0.024		605079	0.0247		98.7	446	
5 NVHOS										
297.00 > 135.00	7.087	7.087	0.0		238813	0.0253		101	3776	
6 PFO2HxA										
245.00 > 85.00	7.675	7.676	-0.001		471010	0.0263		105	3860	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		272802	0.0260		104	648	
7 PES										
314.90 > 135.00	8.521	8.522	-0.001		914486	0.0249		99.5	22742	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		396640	0.0265		106	7910	
9 PFO3OA										
310.90 > 85.00	8.985	8.986	-0.001		220607	0.0275		110	3544	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.003	276170	0.0254		102	7662	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.073	9.102	-0.029		2419373	0.2548		102	66833	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.457	9.458	-0.001		1647286	0.0269		108	31657	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		2035051	0.0262		105	23519	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		9421616	0.2611		104	182184	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.523	-0.033	1.000	1075499	0.0261	Target=0.00	104	3950	
363.00 > 169.00	9.490	9.523	-0.033	1.000	306827		3.51(0.00-0.00)	104	5921	
15 Hydro-PS Acid										
463.00 > 262.90	9.522	9.523	-0.001		836192	0.0260		104	18554	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		223534	0.0249		99.4	6131	
18 PFO4DA										
376.90 > 85.00	9.759	9.760	-0.001		197362	0.0243		97.0	3372	
20 EVE Acid										
407.00 > 262.90	9.845	9.846	-0.001		1548128	0.0262		105	43957	
19 PS Acid										
443.00 > 146.90	9.845	9.846	-0.001		383127	0.0265		106	10879	
21 TAF										
442.90 > 85.00	10.322	10.348	-0.026		167324	0.0235		94.1	508	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

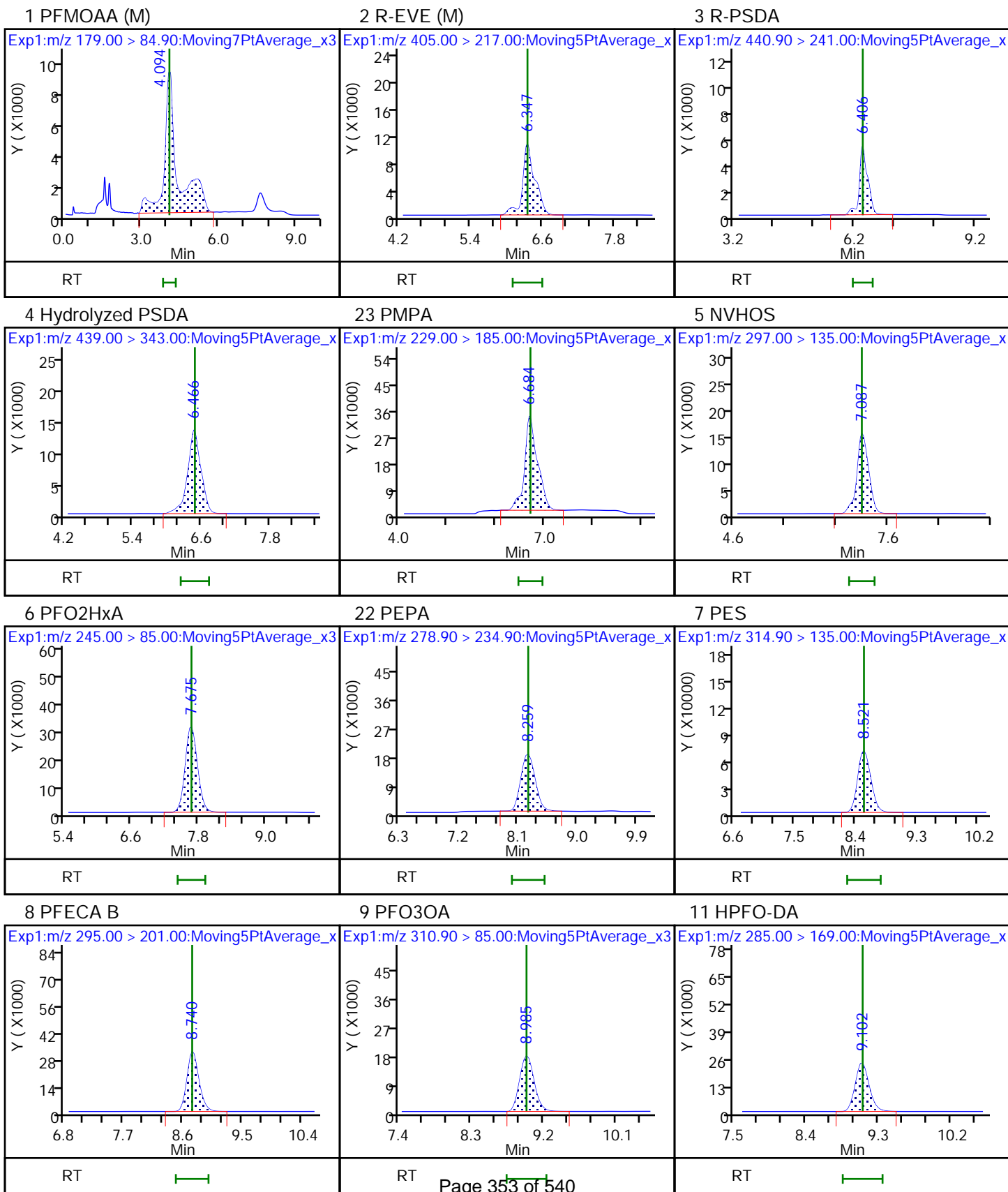
**Reagents:**

LCTB3\_LLSTD5\_00055

Amount Added: 1.00

Units: mL

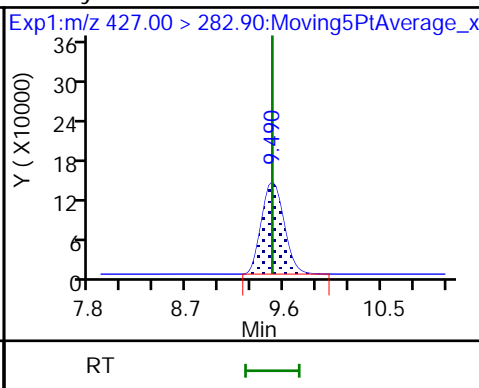
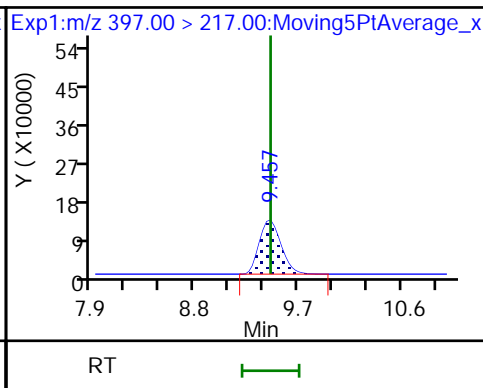
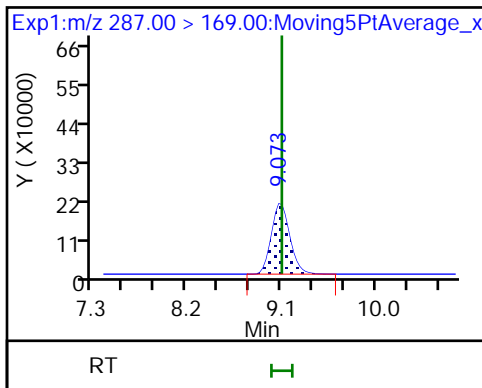




D 10 13C3 HFPO-DA

12 R-PSDCA

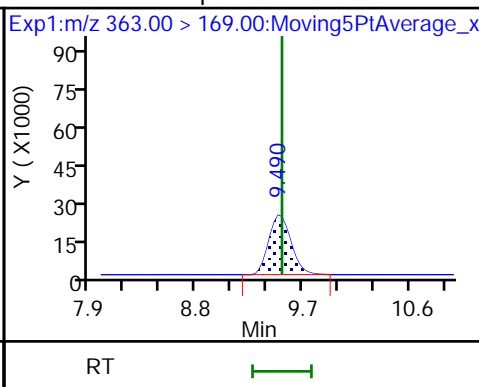
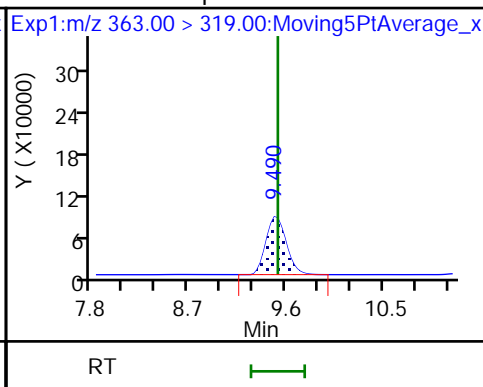
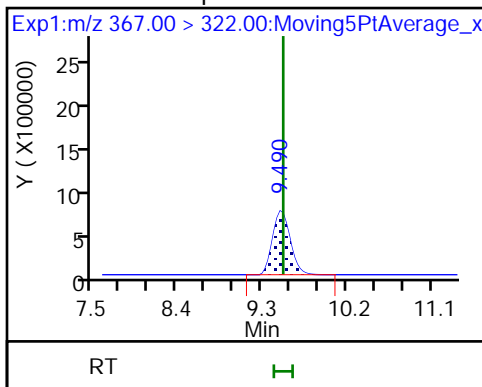
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

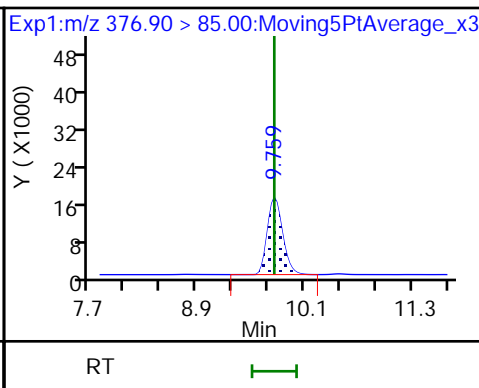
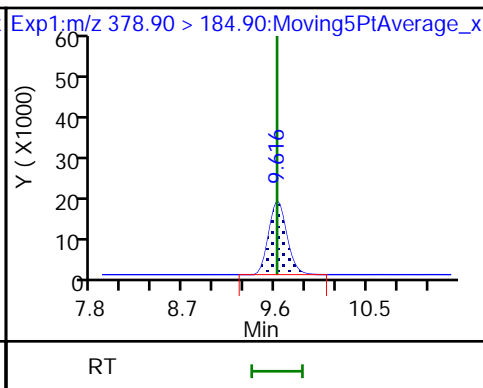
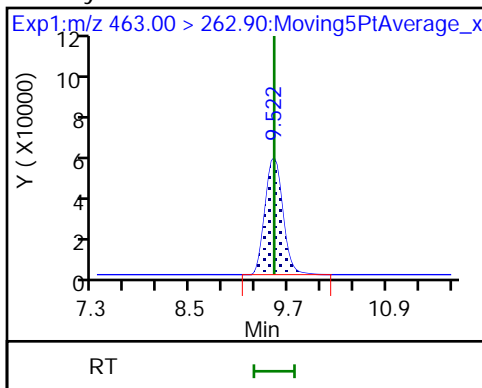
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

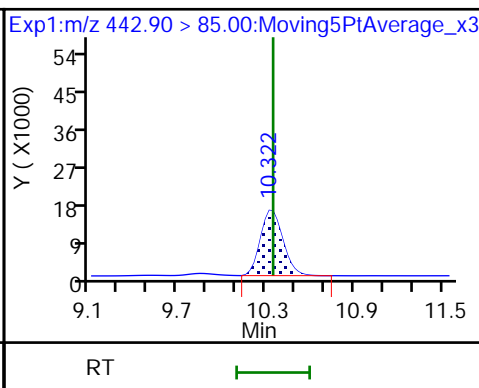
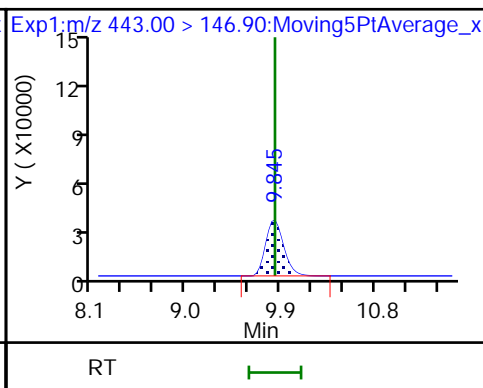
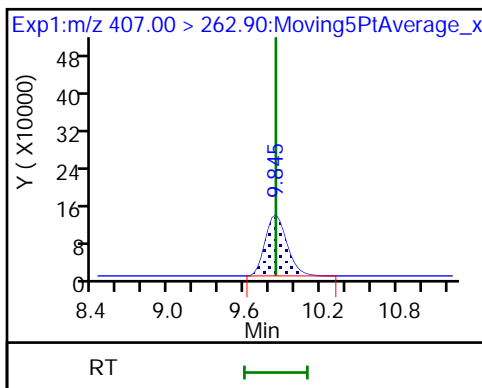
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

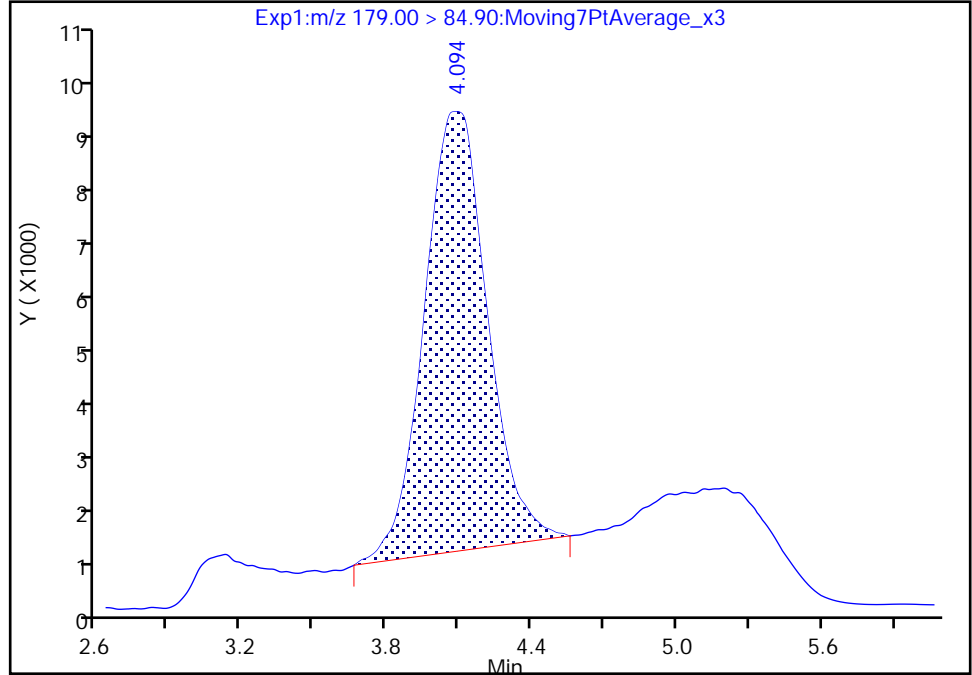
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Injection Date: 18-Feb-2021 19:59:06 Instrument ID: A12  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 11 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

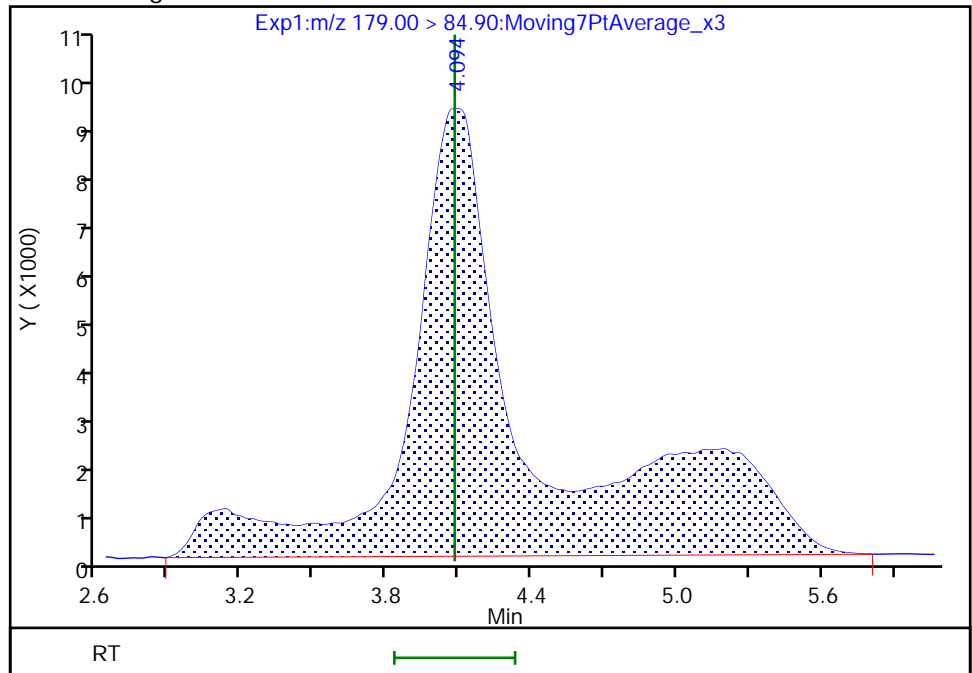
RT: 4.09  
Area: 137124  
Amount: 0.017942  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 310108  
Amount: 0.025455  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:47:08

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

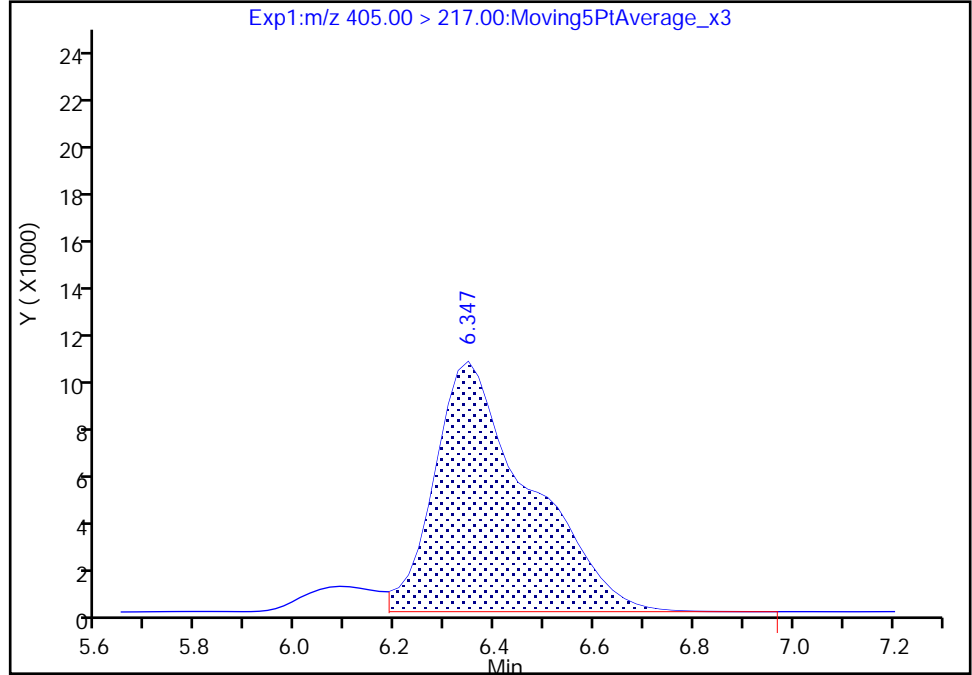
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Injection Date: 18-Feb-2021 19:59:06 Instrument ID: A12  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 11 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

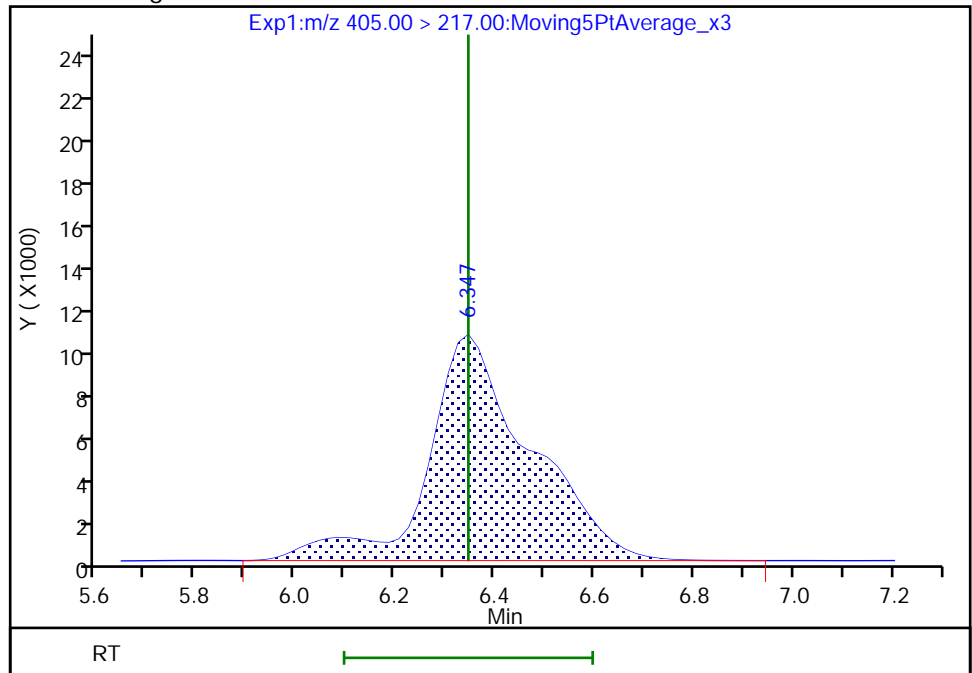
RT: 6.35  
Area: 136037  
Amount: 0.024306  
Amount Units: ng/ml

Processing Integration Results



RT: 6.35  
Area: 146873  
Amount: 0.024905  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:55:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_013.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 18-Feb-2021 20:34:11 ALS Bottle#: 13 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (87)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:14 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 21:03:11

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.034	4.081	-0.047		599340	0.0492		98.4	48.2	M
2 R-EVE										M
405.00 > 217.00	6.347	6.347	0.0		282768	0.0479		95.9	4882	M
3 R-PSDA										M
440.90 > 241.00	6.407	6.407	0.0		142283	0.0488		97.7	1985	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.466	6.486	-0.020		402740	0.0478		95.6	8263	
23 PMPA										
229.00 > 185.00	6.684	6.708	-0.024		1119989	0.0457		91.4	759	
5 NVHOS										
297.00 > 135.00	7.087	7.087	0.0		455000	0.0481		96.2	9167	
6 PFO2HxA										
245.00 > 85.00	7.675	7.676	-0.001		872383	0.0487		97.3	6263	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		530182	0.0504		101	1180	
7 PES										
314.90 > 135.00	8.521	8.522	-0.001		1791030	0.0487		97.5	44333	
8 PFECA B										
295.00 > 201.00	8.768	8.740	0.028		738741	0.0494		98.7	14627	
9 PFO3OA										
310.90 > 85.00	9.017	8.986	0.031		389006	0.0485		97.1	6168	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2308057	0.2431		97.2	64788	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	524872	0.0507		101	14802	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.458	9.458	0.0		3061439	0.0500		100	59179	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		3994406	0.0514		103	45982	
D 14 13C4 PFHpA										
367.00 > 322.00	9.522	9.523	-0.001		8936482	0.2476		99.0	138937	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.522	9.523	-0.001	1.000	1994635	0.0515	Target=0.00	103	7088	
363.00 > 169.00	9.522	9.523	-0.001	1.000	596095		3.35(0.00-0.00)	103	9299	
15 Hydro-PS Acid										
463.00 > 262.90	9.522	9.523	-0.001		1655741	0.0515		103	36791	
17 PFECA G										
378.90 > 184.90	9.645	9.616	0.029		456211	0.0507		101	12516	
18 PFO4DA										
376.90 > 85.00	9.788	9.760	0.028		419790	0.0516		103	8913	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		2992683	0.0507		101	63316	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		718480	0.0497		99.4	15337	
21 TAF										
442.90 > 85.00	10.348	10.348	0.0		374629	0.0527		105	1096	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00087

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_013.d

Injection Date: 18-Feb-2021 20:34:11

Instrument ID: A12

Lims ID: IC STD 6

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 13

Worklist Smp#: 8

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

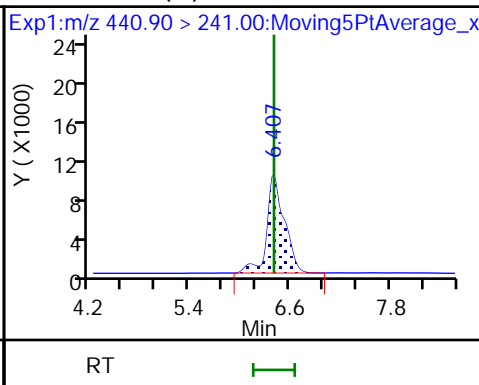
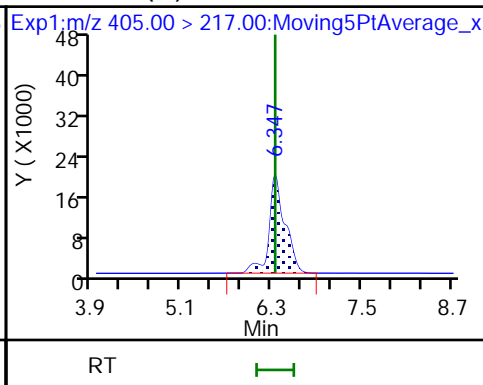
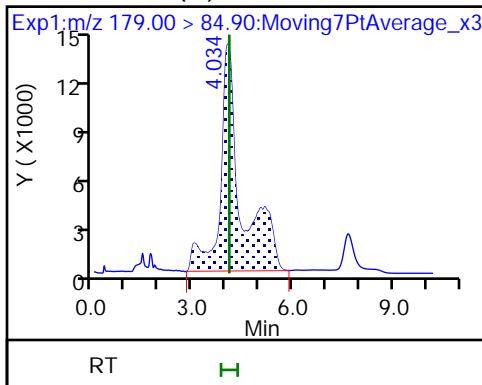
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

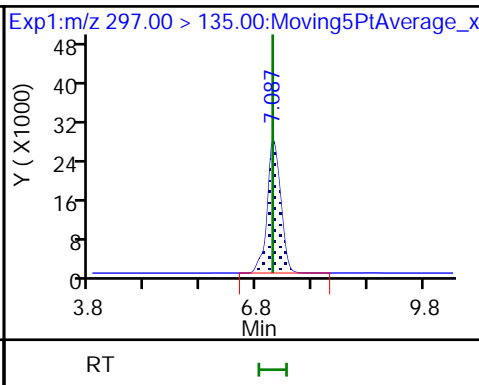
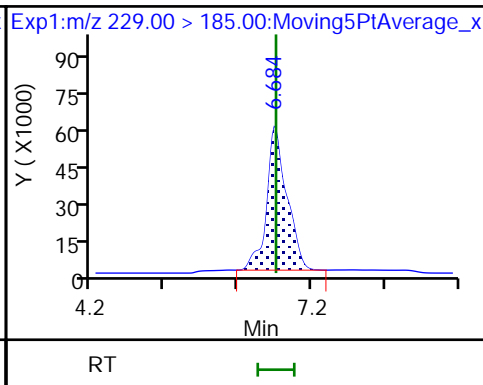
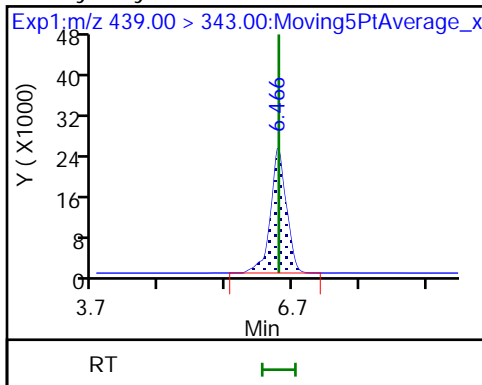
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA

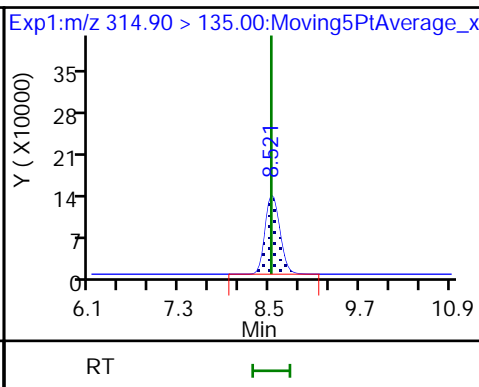
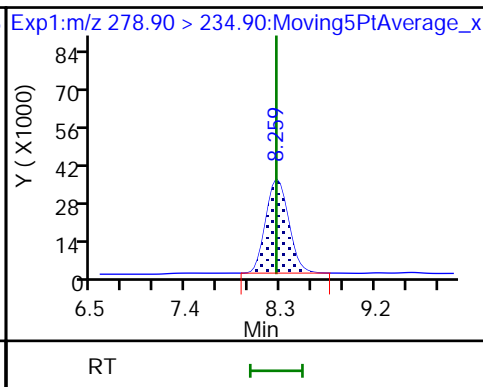
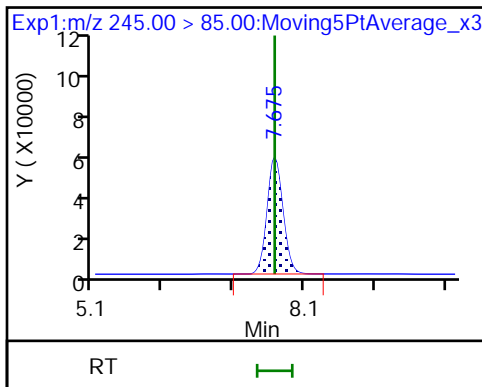
5 NVHOS



6 PFO2HxA

22 PEPA

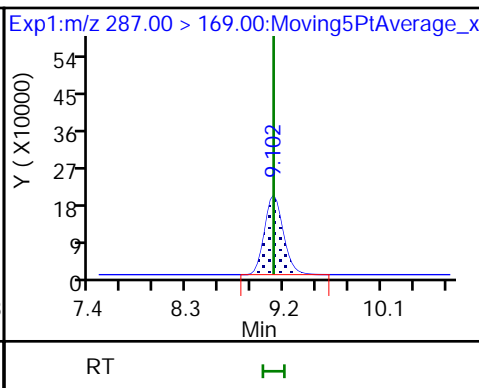
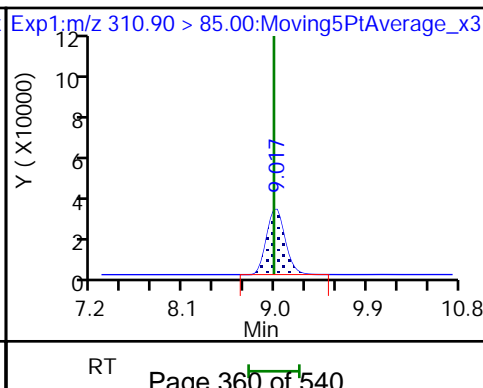
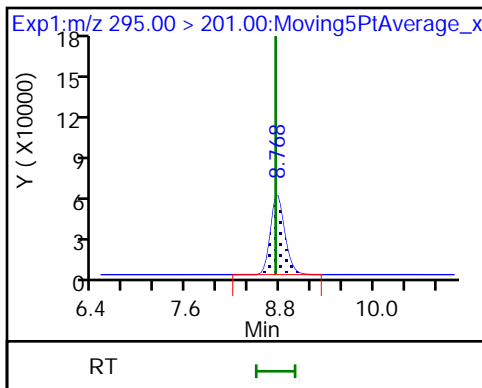
7 PES



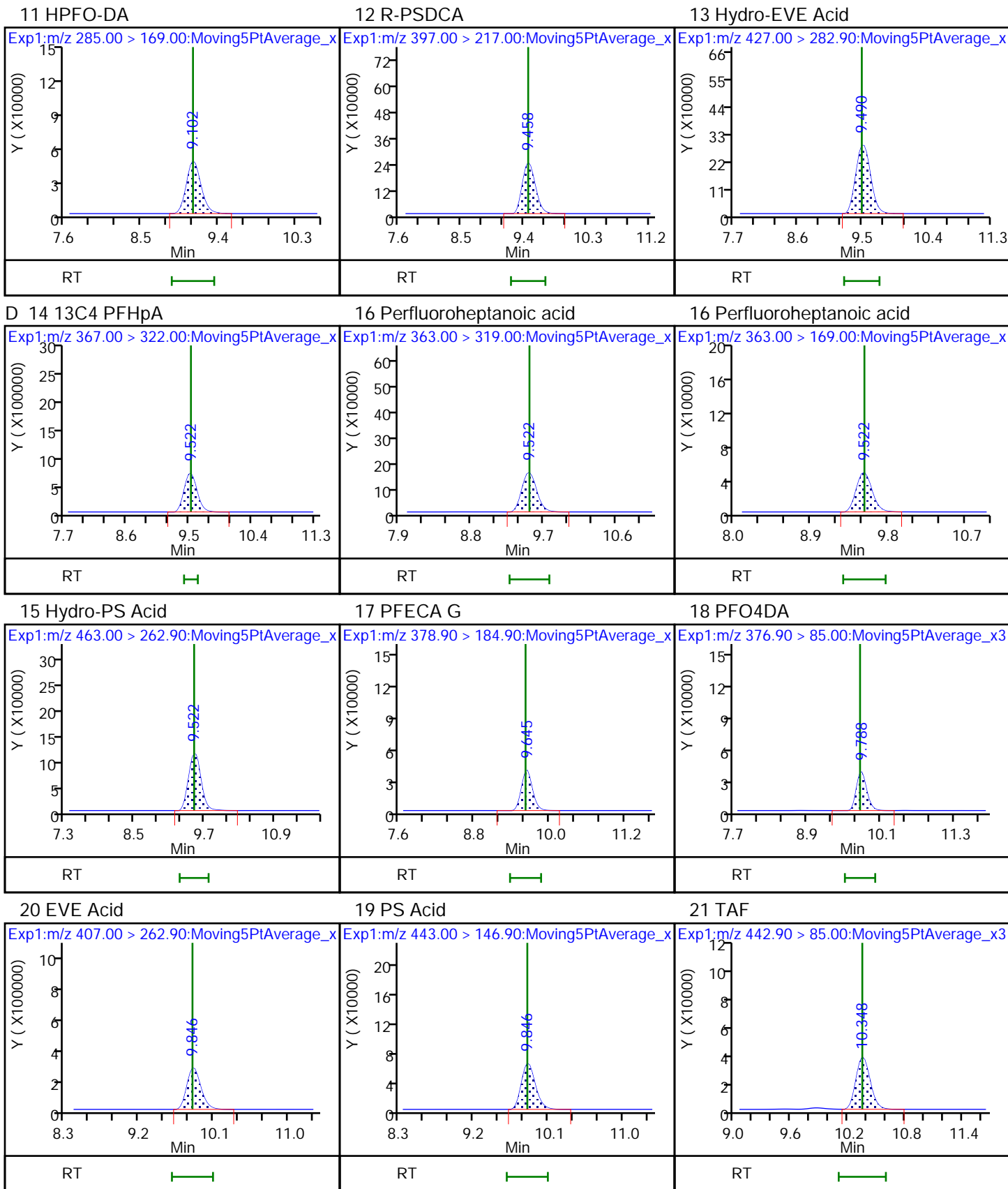
8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

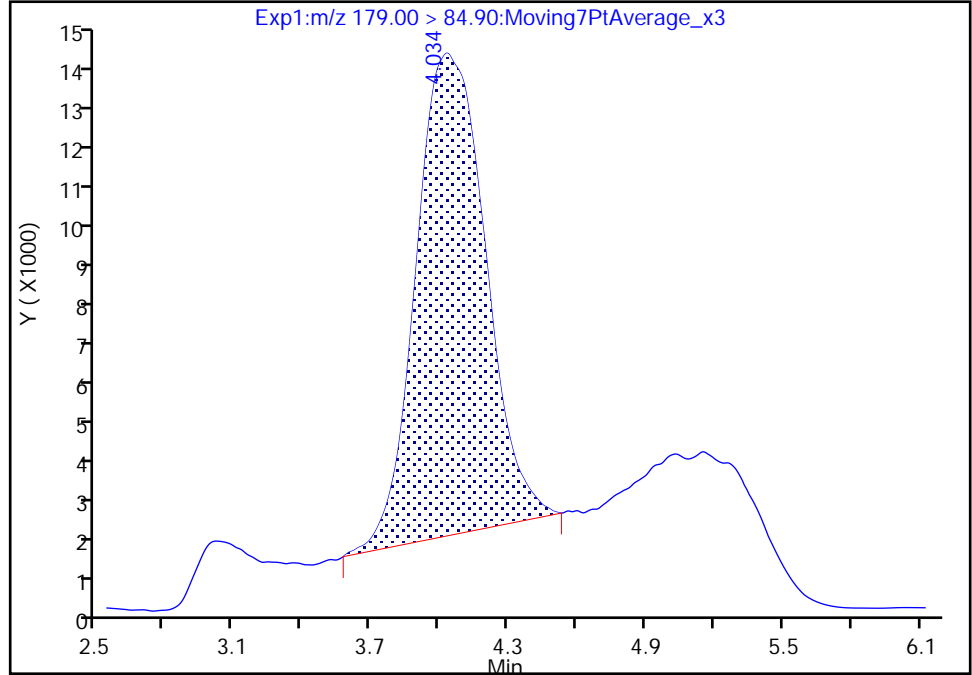
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 Injection Date: 18-Feb-2021 20:34:11 Instrument ID: A12  
 Lims ID: IC STD 6  
 Client ID:  
 Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

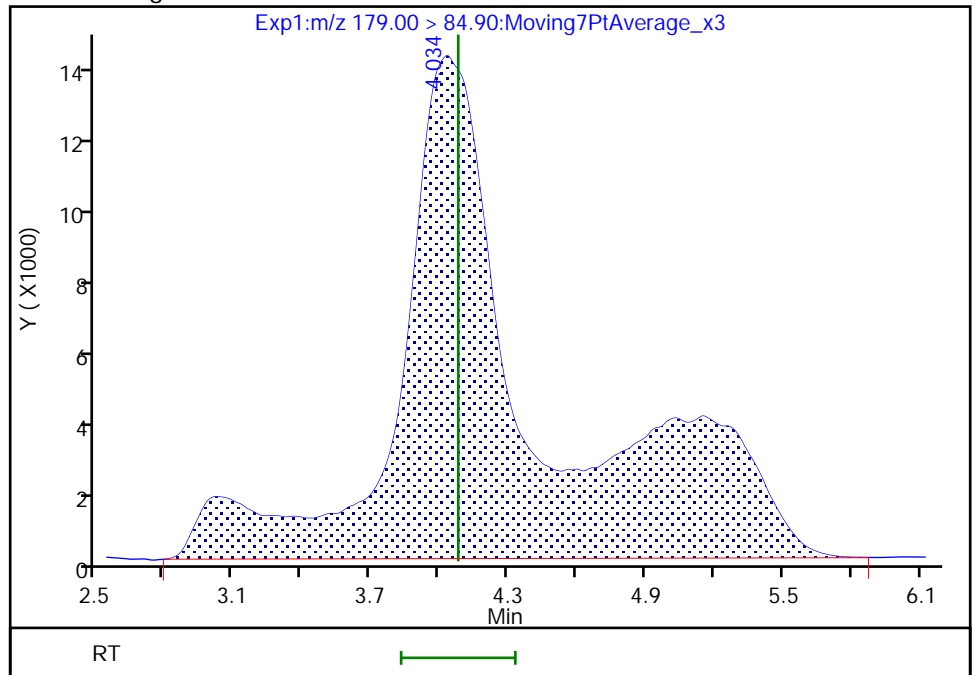
RT: 4.03  
 Area: 255804  
 Amount: 0.026909  
 Amount Units: ng/ml

Processing Integration Results



RT: 4.03  
 Area: 599340  
 Amount: 0.049196  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:48:18

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

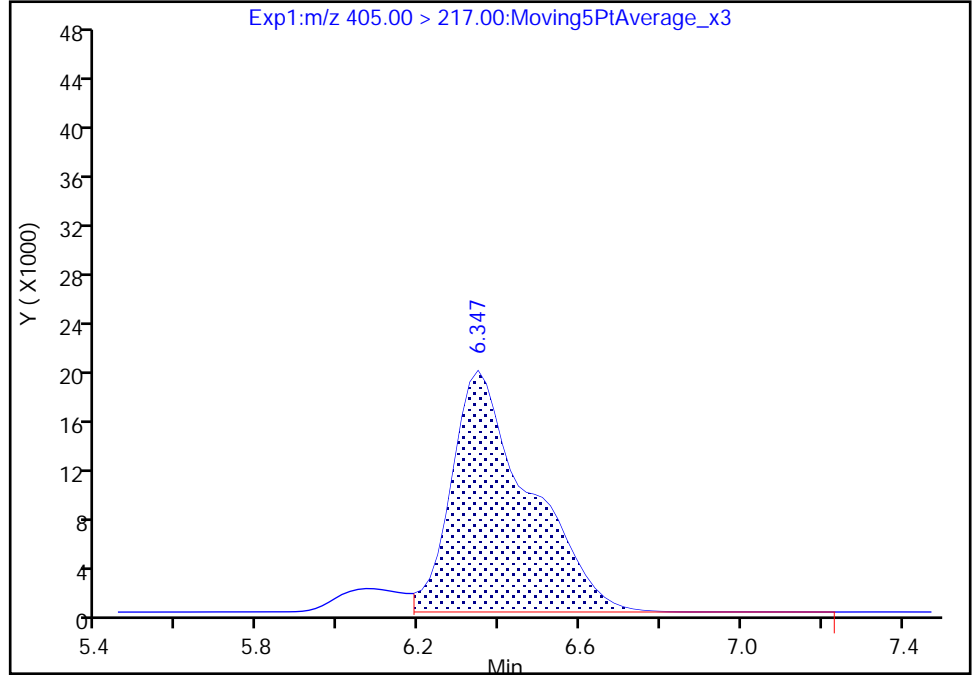
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Injection Date: 18-Feb-2021 20:34:11 Instrument ID: A12  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

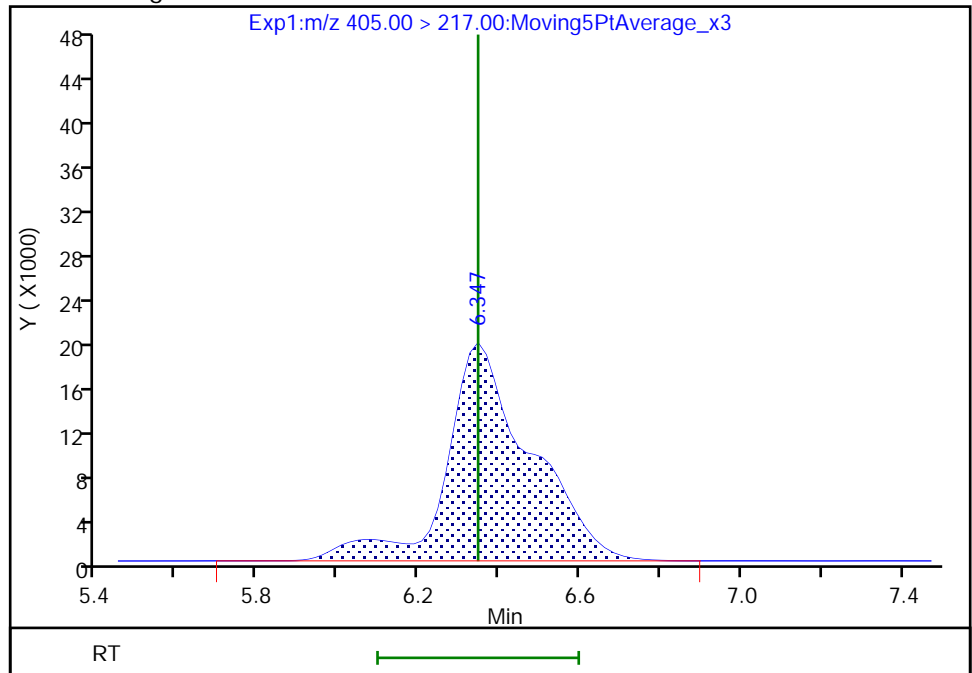
RT: 6.35  
Area: 261107  
Amount: 0.046205  
Amount Units: ng/ml

Processing Integration Results



RT: 6.35  
Area: 282768  
Amount: 0.047948  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

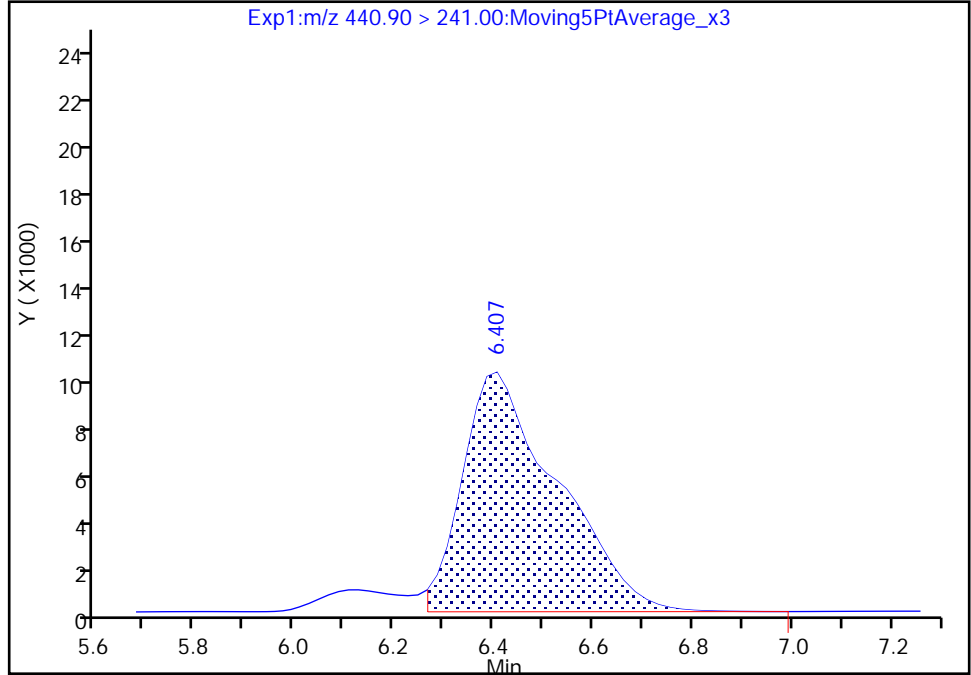
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_013.d  
Injection Date: 18-Feb-2021 20:34:11 Instrument ID: A12  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

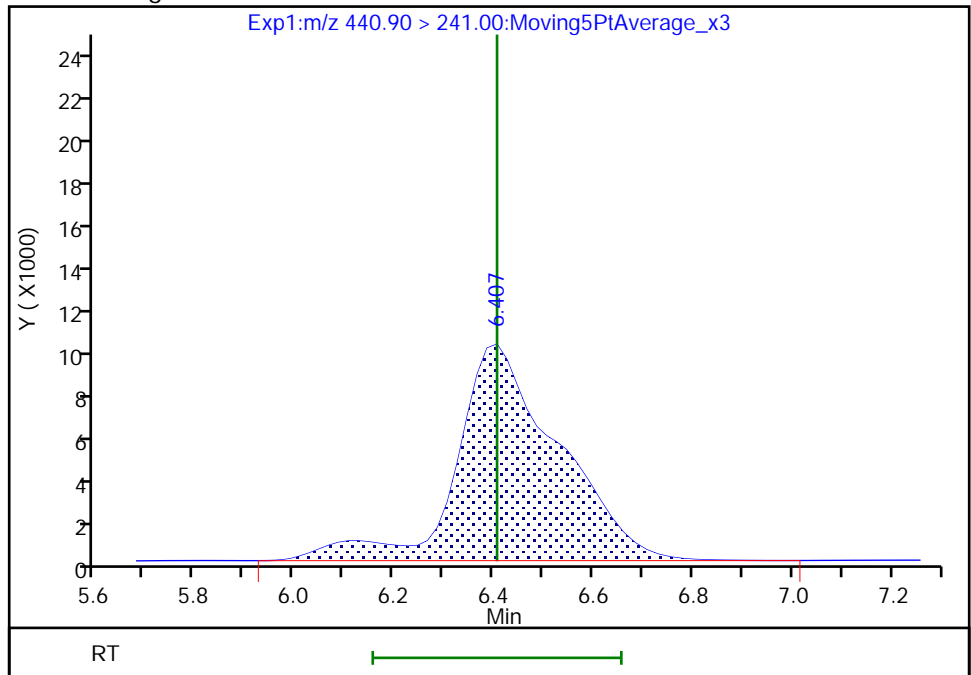
RT: 6.41  
Area: 131056  
Amount: 0.044622  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 142283  
Amount: 0.048837  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:58:29  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_015.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 18-Feb-2021 21:09:16 ALS Bottle#: 15 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (426)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:15 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 22:09:18

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.090	4.081	0.009		1224486	0.1005		101	111	M
2 R-EVE										M
405.00 > 217.00	6.367	6.347	0.020		575520	0.0976		97.6	7991	M
3 R-PSDA										M
440.90 > 241.00	6.427	6.407	0.020		279428	0.0959		95.9	4049	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.506	6.486	0.020		818335	0.0971		97.1	16922	
23 PMPA										
229.00 > 185.00	6.708	6.708	0.0		2302039	0.0939		93.9	1993	
5 NVHOS										
297.00 > 135.00	7.111	7.087	0.024		929697	0.0983		98.3	19334	
6 PFO2HxA										
245.00 > 85.00	7.676	7.676	0.0		1827751	0.1019		102	13278	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		1081569	0.1029		103	2874	
7 PES										
314.90 > 135.00	8.522	8.522	0.0		3723498	0.1013		101	91501	
8 PFECA B										
295.00 > 201.00	8.768	8.740	0.028		1520669	0.1016		102	40406	
9 PFO3OA										
310.90 > 85.00	9.017	8.986	0.031		822450	0.1026		103	16421	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	1042410	0.1001		100	29220	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2320945	0.2444		97.8	65259	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.458	9.458	0.0		6432761	0.1052		105	124071	
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.490	0.033		8305759	0.1068		107	95431	
D 14 13C4 PFHpA										
367.00 > 322.00	9.523	9.523	0.0		9299150	0.2577		103	180598	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.523	9.523	0.0	1.000	4021407	0.1002	Target=0.00	100	18464	
363.00 > 169.00	9.523	9.523	0.0	1.000	1243609		3.23(0.00-0.00)	100	19361	
15 Hydro-PS Acid										
463.00 > 262.90	9.523	9.523	0.0		3335830	0.1038		104	74049	
17 PFECA G										
378.90 > 184.90	9.645	9.616	0.029		944470	0.1050		105	25887	
18 PFO4DA										
376.90 > 85.00	9.788	9.760	0.028		820239	0.1008		101	13873	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		5978874	0.1013		101	125974	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		1529565	0.1058		106	32657	
21 TAF										
442.90 > 85.00	10.348	10.348	0.0		788930	0.1110		111	1900	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

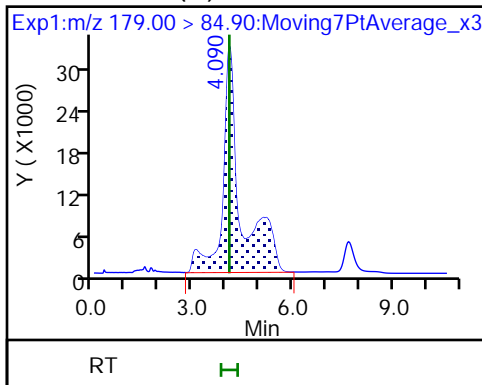
**Reagents:**

LCTB3\_LLSTD7\_00426

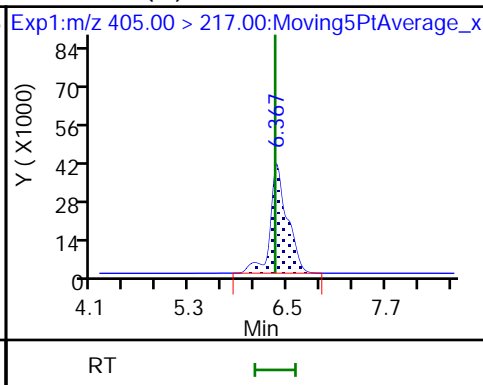
Amount Added: 1.00

Units: mL

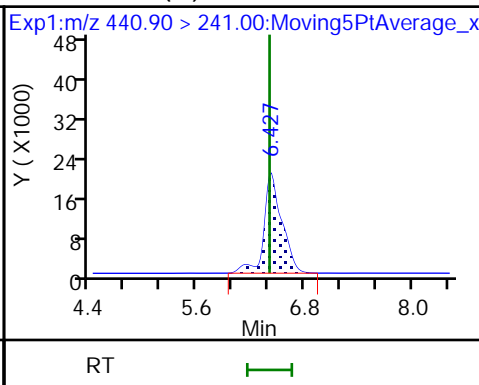
1 PFMOAA (M)



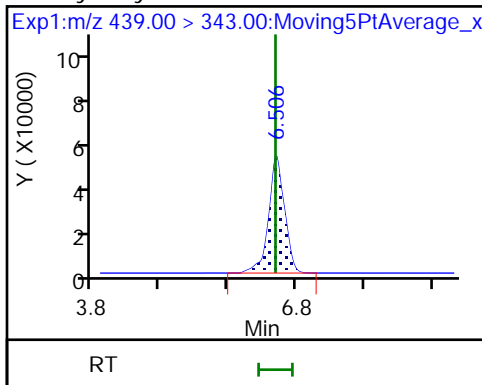
2 R-EVE (M)



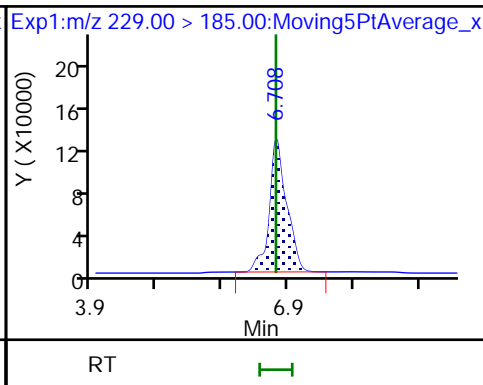
3 R-PSDA (M)



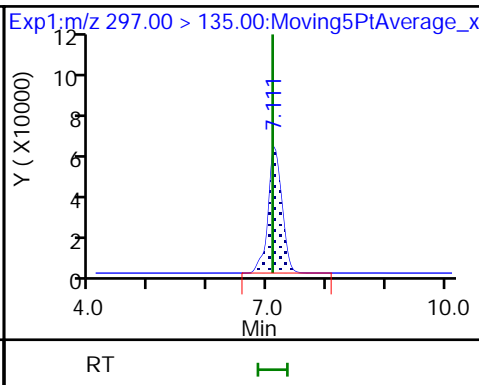
4 Hydrolyzed PSDA



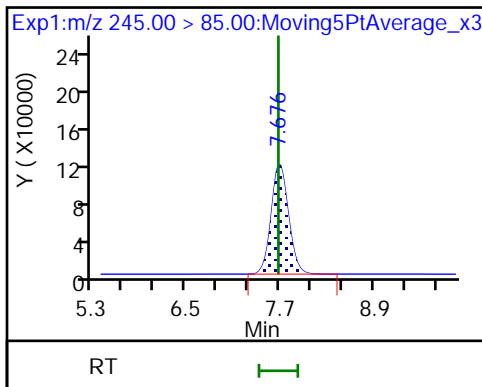
23 PMPA



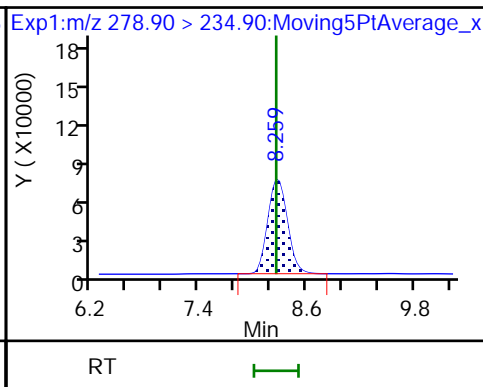
5 NVHOS



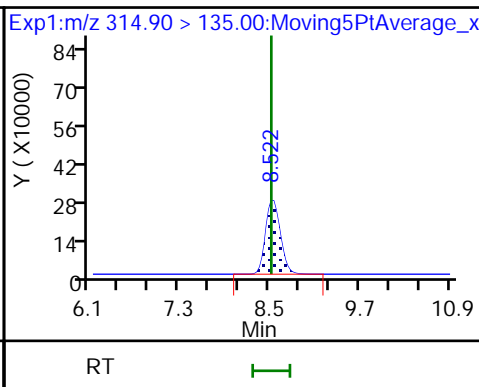
6 PFO2HxA



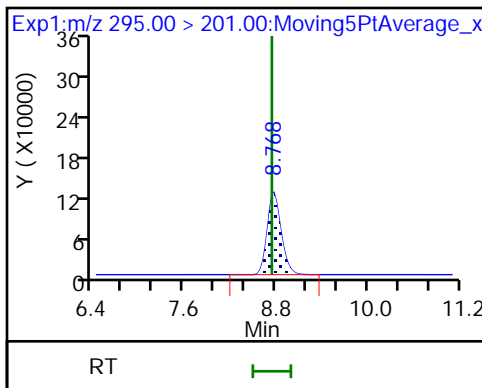
22 PEPA



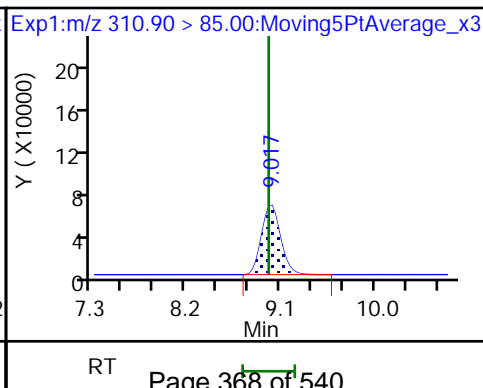
7 PES



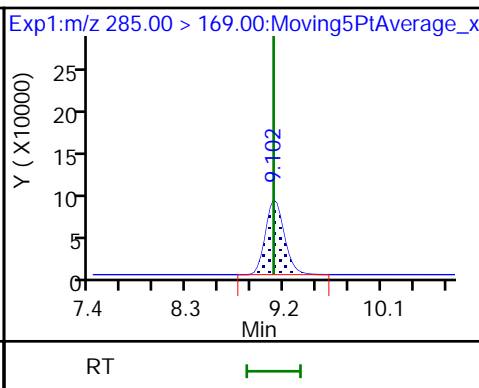
8 PFECA B



9 PFO3OA



11 HPFO-DA

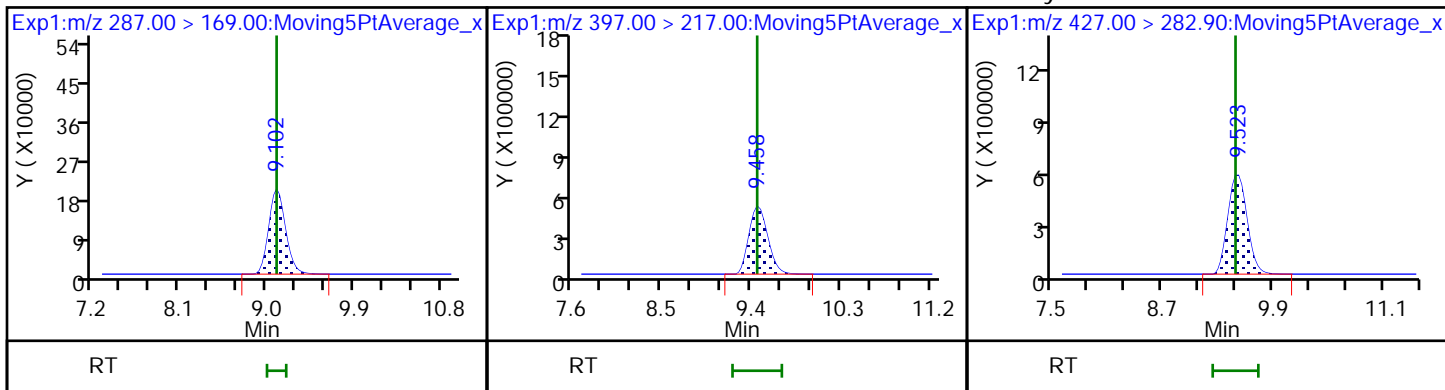




D 10 13C3 HFPO-DA

12 R-PSDCA

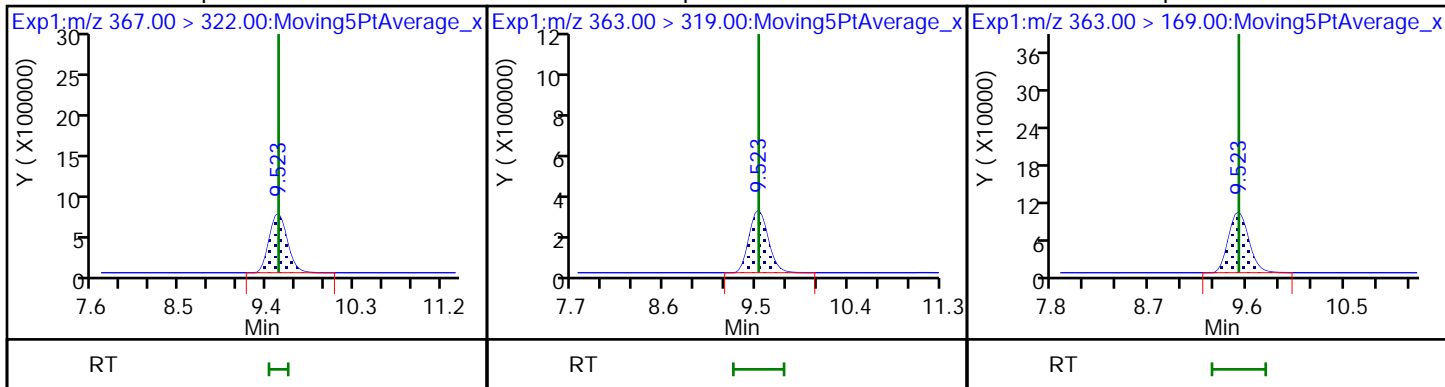
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

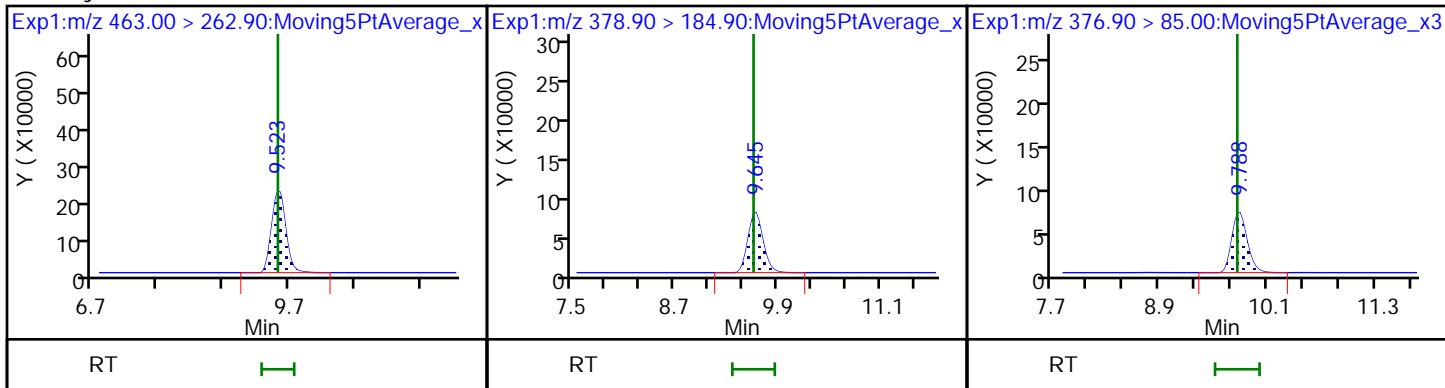
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

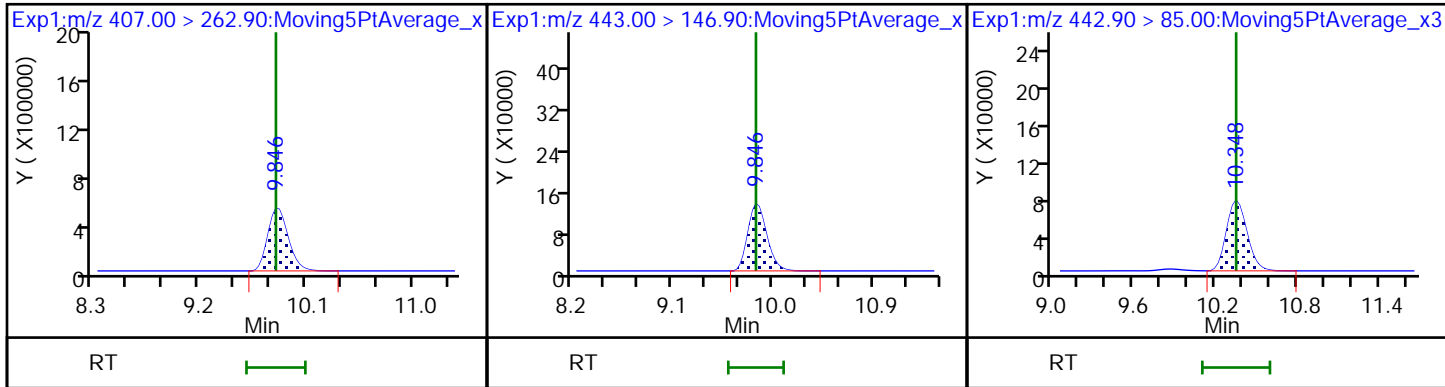
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

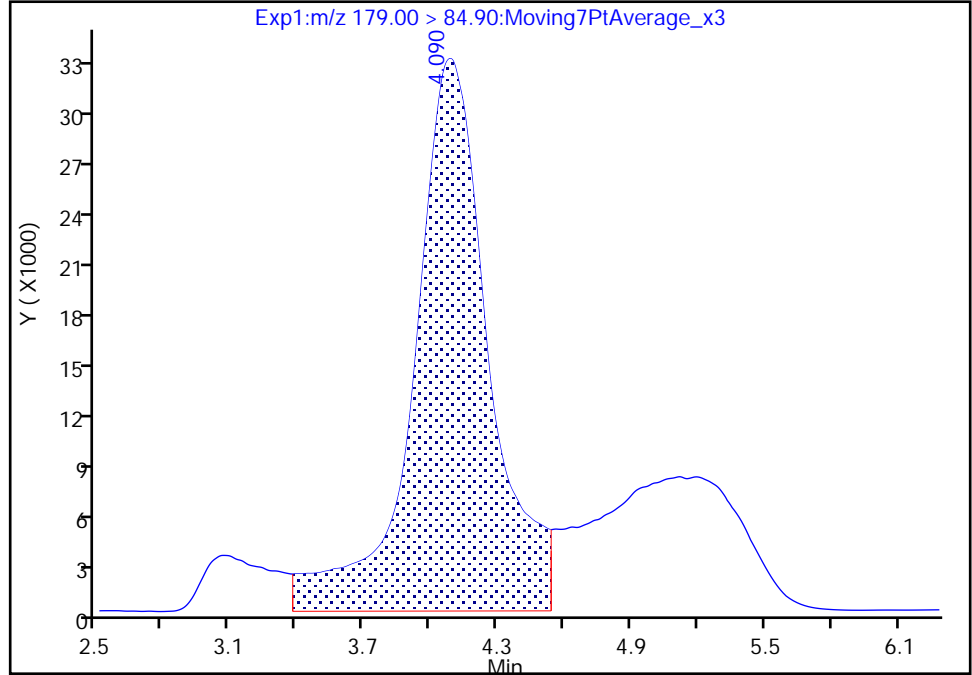
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_015.d  
Injection Date: 18-Feb-2021 21:09:16 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

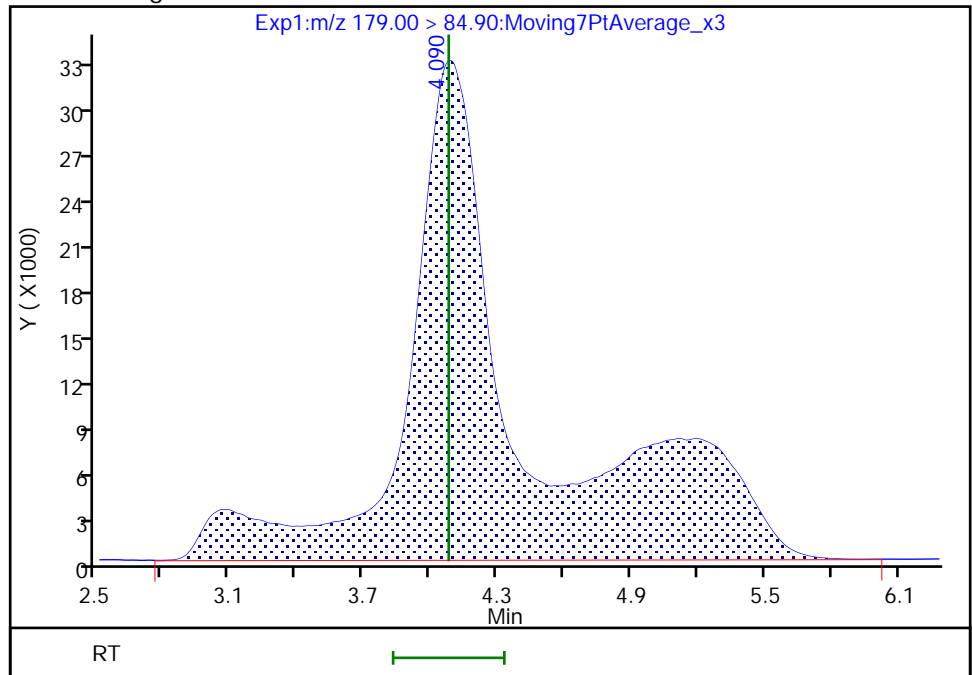
RT: 4.09  
Area: 773462  
Amount: 0.074622  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 1224486  
Amount: 0.100510  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

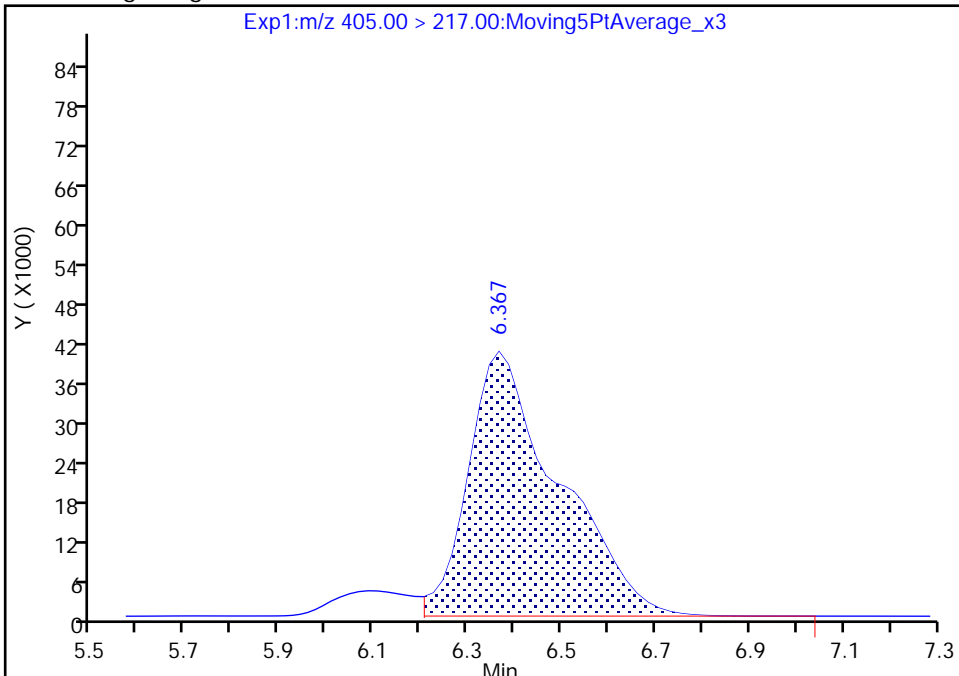
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_015.d  
Injection Date: 18-Feb-2021 21:09:16 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

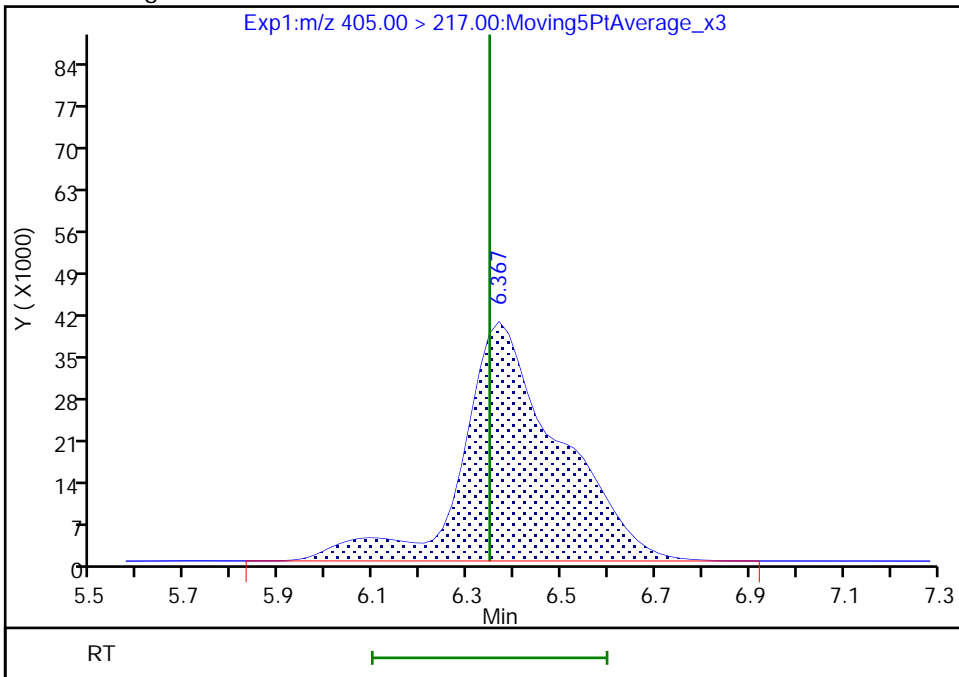
RT: 6.37  
Area: 531318  
Amount: 0.093129  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 575520  
Amount: 0.097589  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:56:11  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

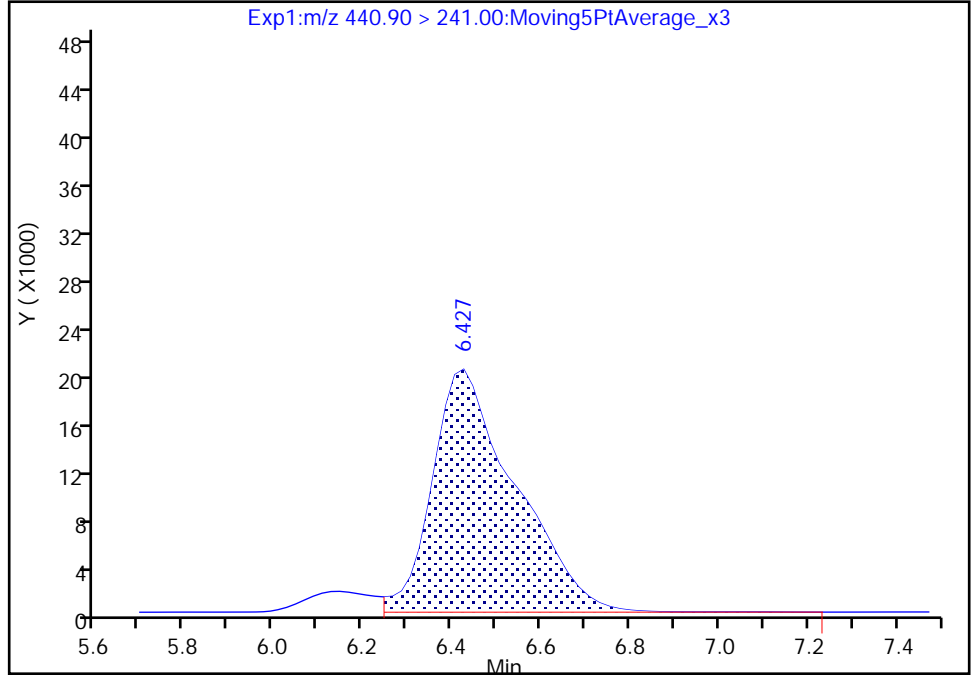
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_015.d  
Injection Date: 18-Feb-2021 21:09:16 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

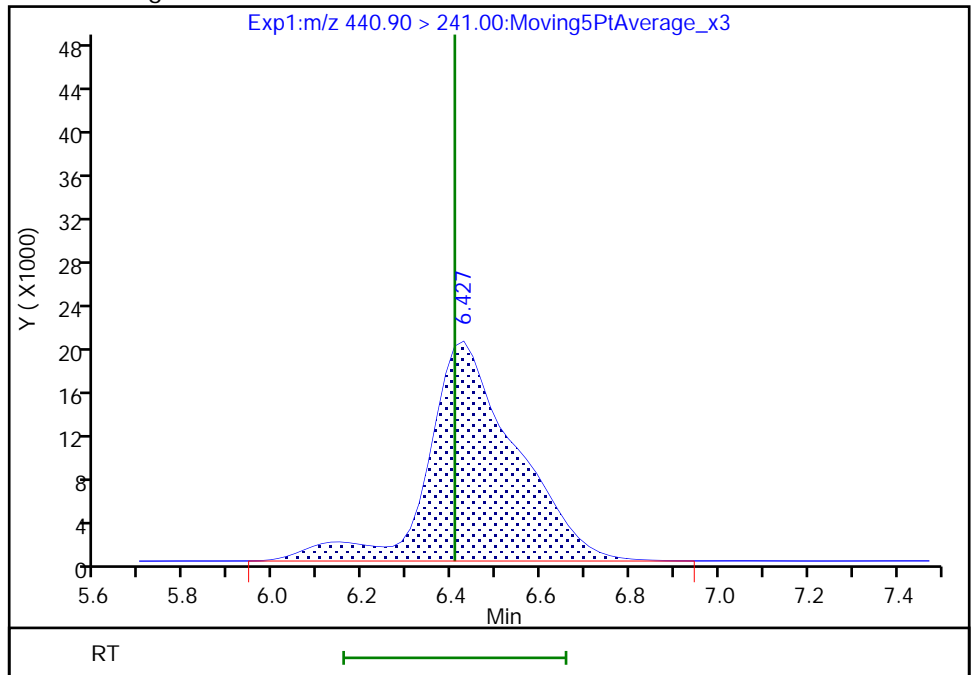
RT: 6.43  
Area: 261488  
Amount: 0.088282  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 279428  
Amount: 0.095910  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:59:04  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_017.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 18-Feb-2021 21:44:29 ALS Bottle#: 17 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (44)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:16 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: phomsophat Date: 18-Feb-2021 22:12:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.154	4.081	0.073		3159559	0.2593		104	383	M
2 R-EVE										M
405.00 > 217.00	6.347	6.347	0.0		1504988	0.2552		102	17828	M
3 R-PSDA										M
440.90 > 241.00	6.407	6.407	0.0		740300	0.2541		102	10749	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.486	6.486	0.0		2144411	0.2544		102	33514	
23 PMPA										
229.00 > 185.00	6.708	6.708	0.0		5745866	0.2344		93.7	6636	
5 NVHOS										
297.00 > 135.00	7.111	7.087	0.024		2407481	0.2546		102	40711	
6 PFO2HxA										
245.00 > 85.00	7.675	7.676	-0.001		4576031	0.2552		102	31076	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		2609032	0.2483		99.3	7998	
7 PES										
314.90 > 135.00	8.521	8.522	-0.001		9874700	0.2687		107	186070	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		3882405	0.2594		104	77439	
9 PFO3OA										
310.90 > 85.00	8.985	8.986	-0.001		1885440	0.2353		94.1	37829	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2225135	0.2344		93.7	61369	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	2568381	0.2572		103	71596	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.457	9.458	-0.001		16825997	0.2751		110	215845	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		20995407	0.2700		108	181960	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		9305698	0.2578		103	143927	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.523	-0.033	1.000	10149585	0.2534	Target=0.00	101	41194	
363.00 > 169.00	9.490	9.523	-0.033	1.000	3124617		3.25(0.00-0.00)	101	48229	
15 Hydro-PS Acid										
463.00 > 262.90	9.522	9.523	-0.001		8412026	0.2617		105	140293	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		2259362	0.2513		101	61889	
18 PFO4DA										
376.90 > 85.00	9.760	9.760	0.0		2370140	0.2913		117	28953	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		14303333	0.2423		96.9	202866	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		3721290	0.2573		103	79175	
21 TAF										
442.90 > 85.00	10.322	10.348	-0.026		1943108	0.2733		109	3217	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_017.d

Injection Date: 18-Feb-2021 21:44:29

Instrument ID: A12

Lims ID: IC STD 8

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 17

Worklist Smp#: 12

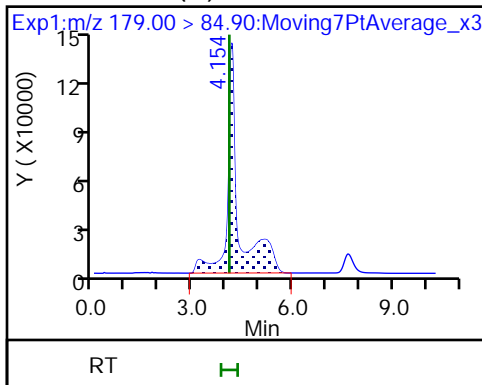
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

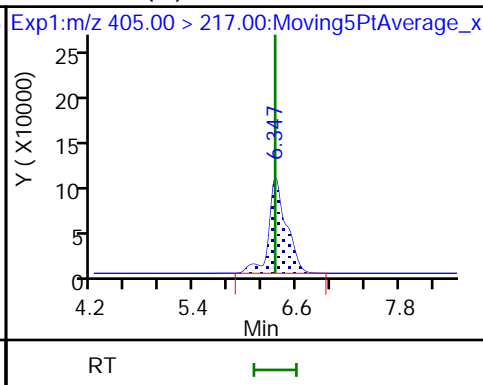
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

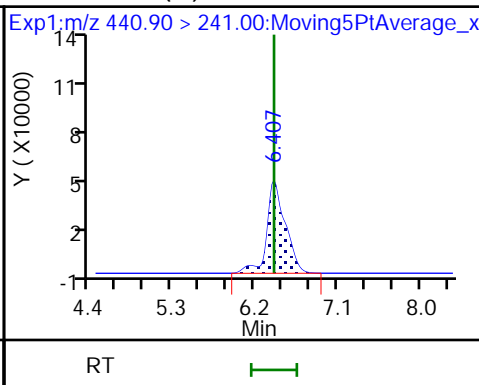
1 PFMOAA (M)



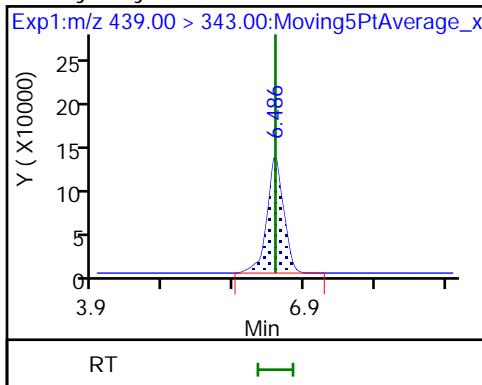
2 R-EVE (M)



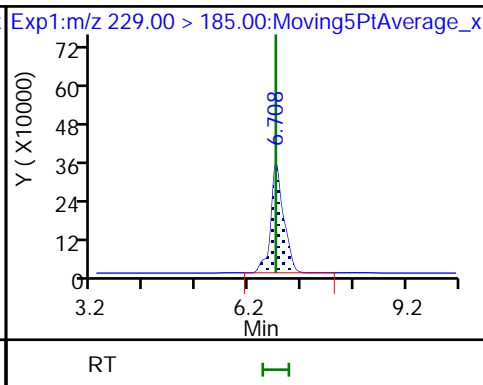
3 R-PSDA (M)



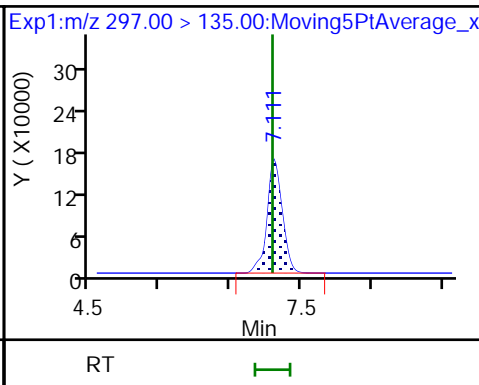
4 Hydrolyzed PSDA



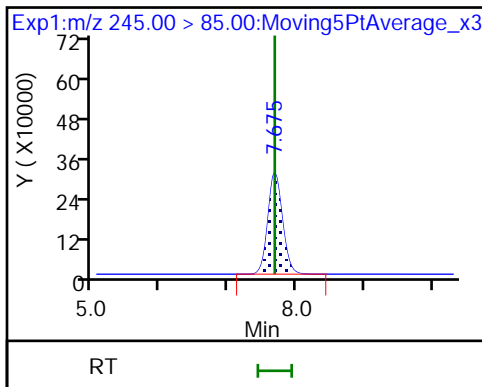
23 PMPA



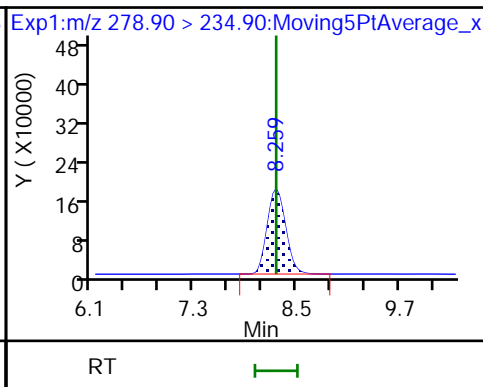
5 NVHOS



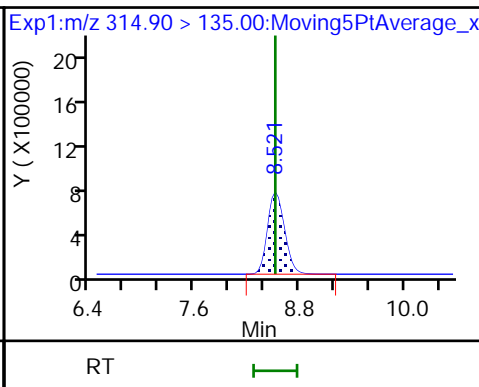
6 PFO2HxA



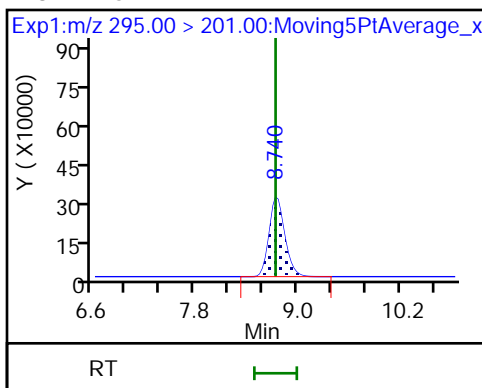
22 PEPA



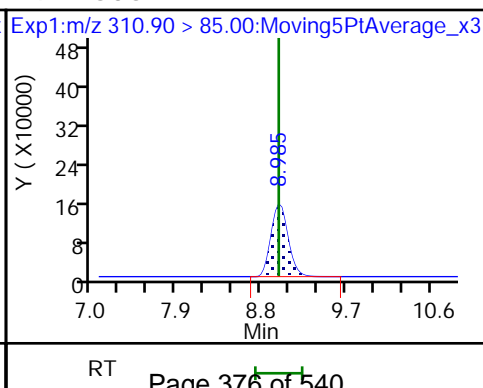
7 PES



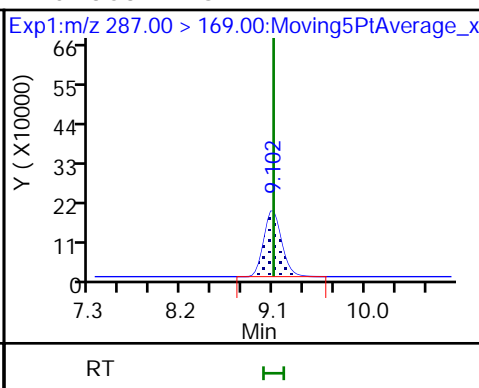
8 PFECA B



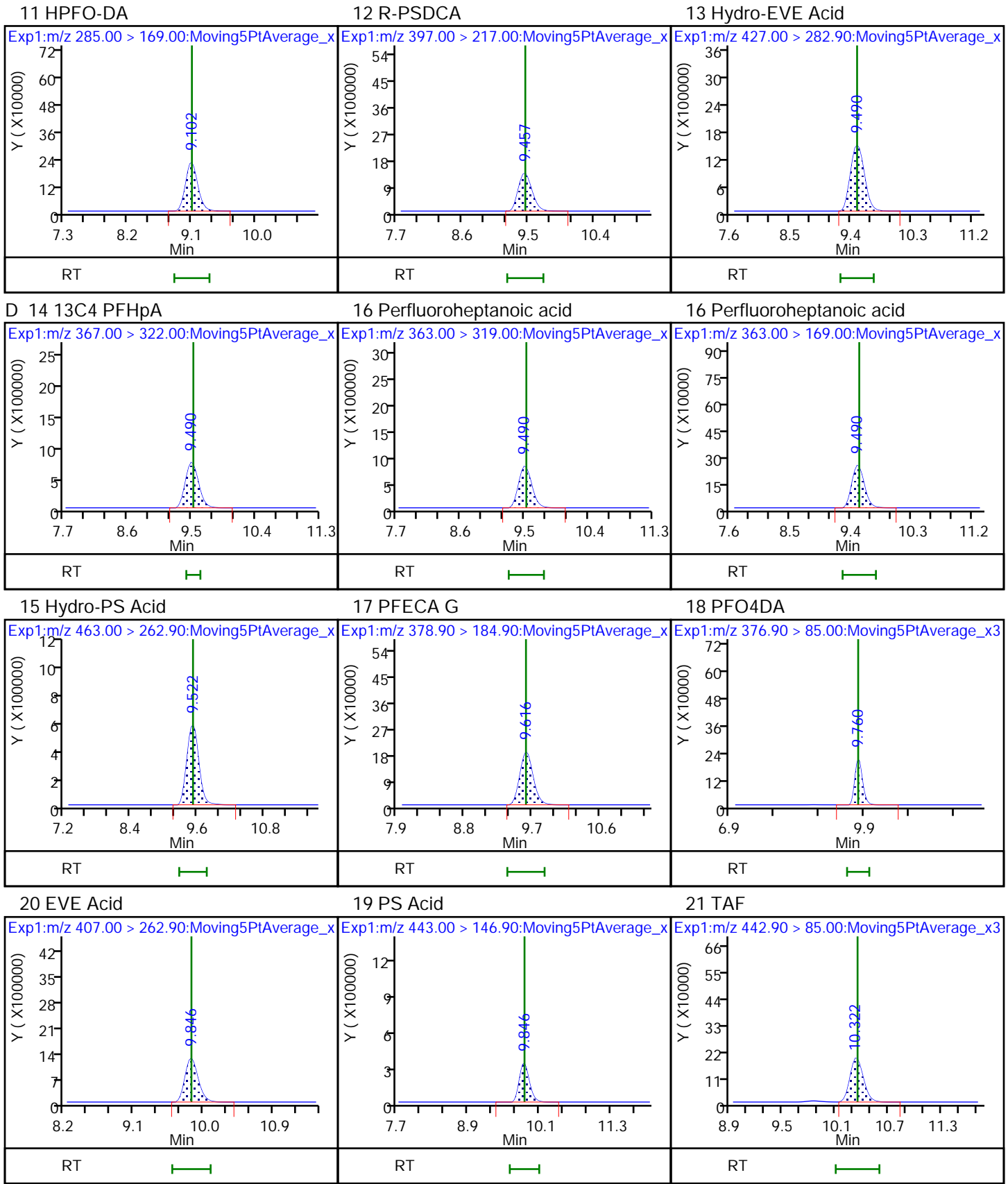
9 PFO3OA



D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

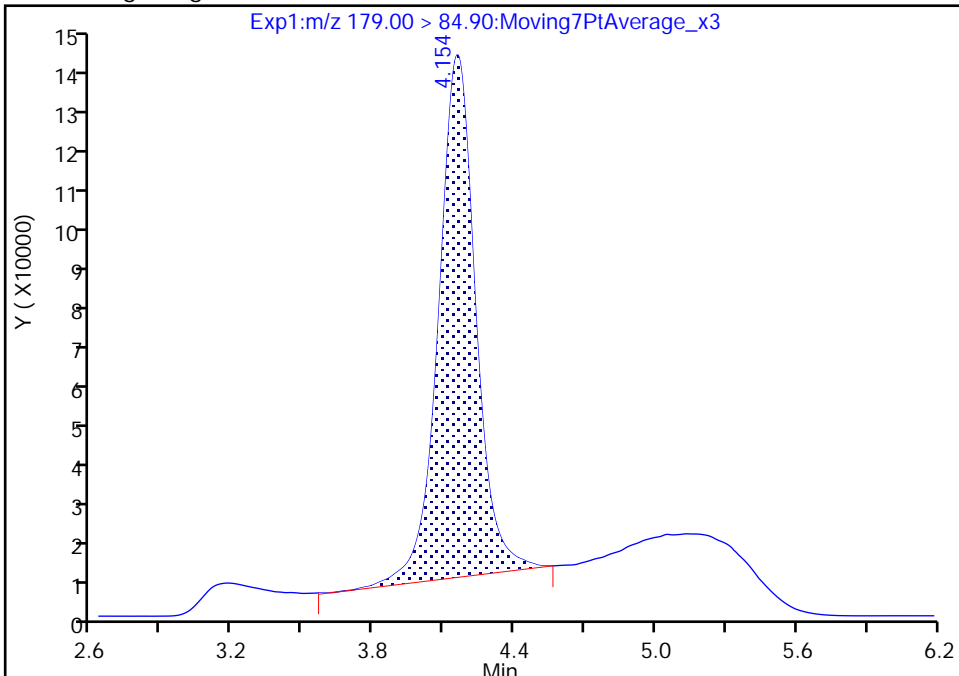
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_017.d  
Injection Date: 18-Feb-2021 21:44:29 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

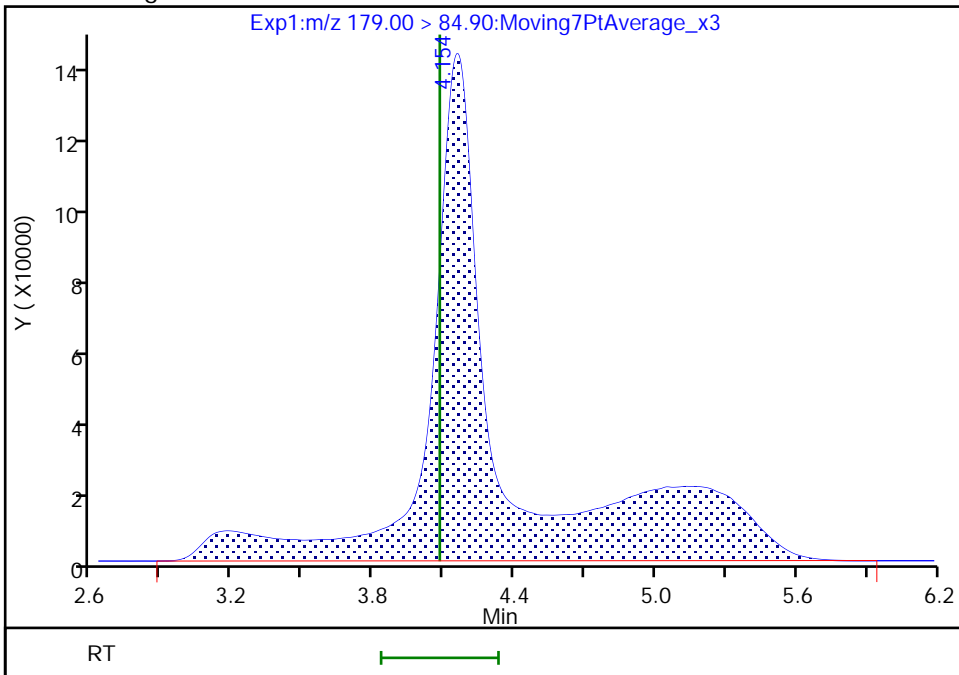
RT: 4.15  
Area: 1457471  
Amount: 0.133360  
Amount Units: ng/ml

Processing Integration Results



RT: 4.15  
Area: 3159559  
Amount: 0.259346  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:48:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

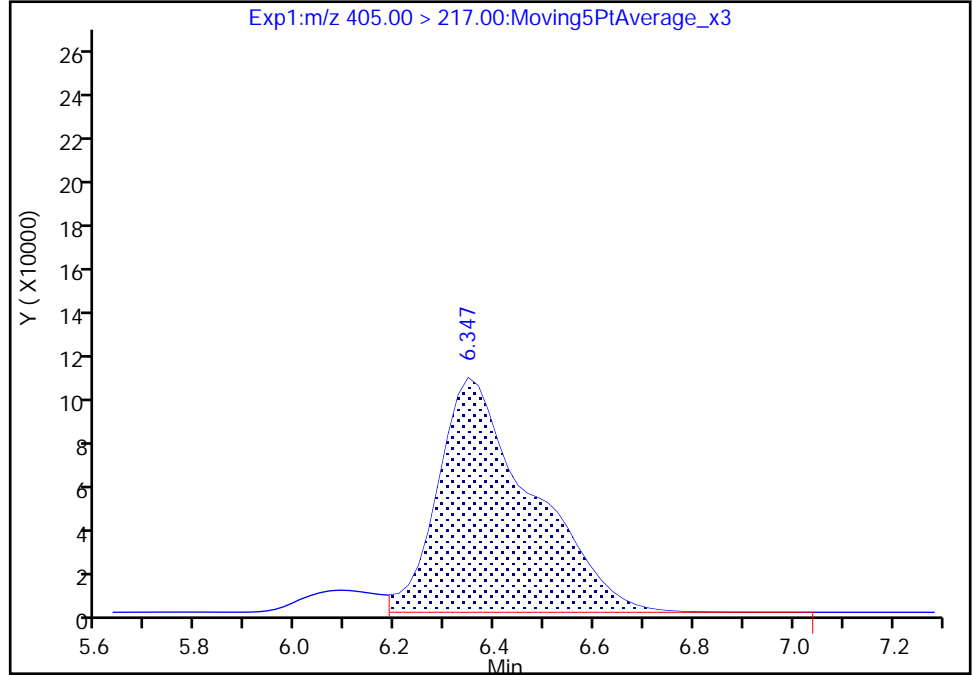
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_017.d  
Injection Date: 18-Feb-2021 21:44:29 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

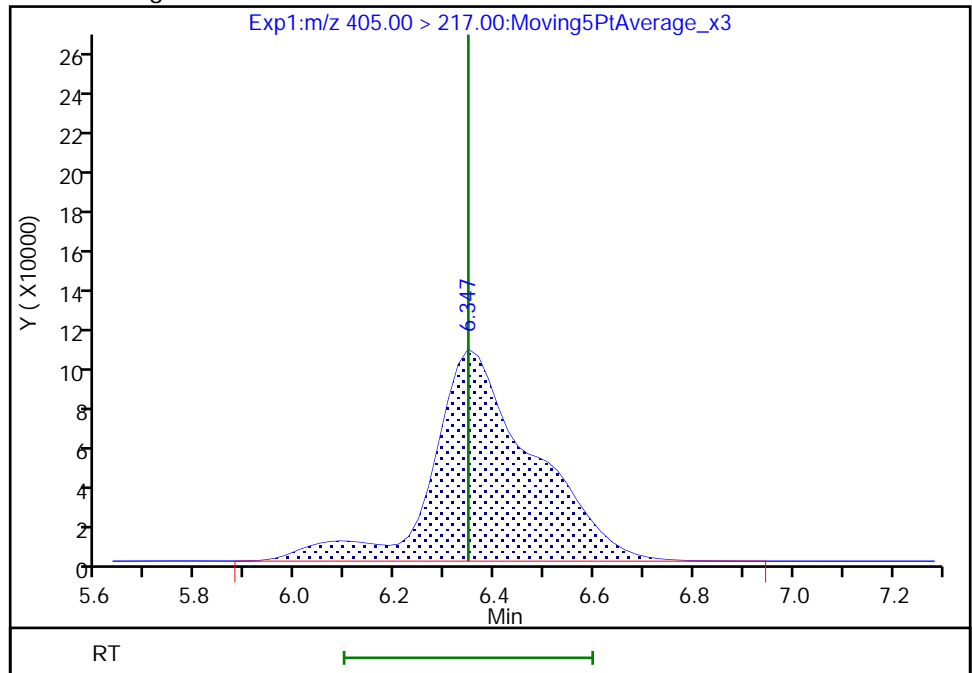
RT: 6.35  
Area: 1398761  
Amount: 0.242822  
Amount Units: ng/ml

Processing Integration Results



RT: 6.35  
Area: 1504988  
Amount: 0.255195  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

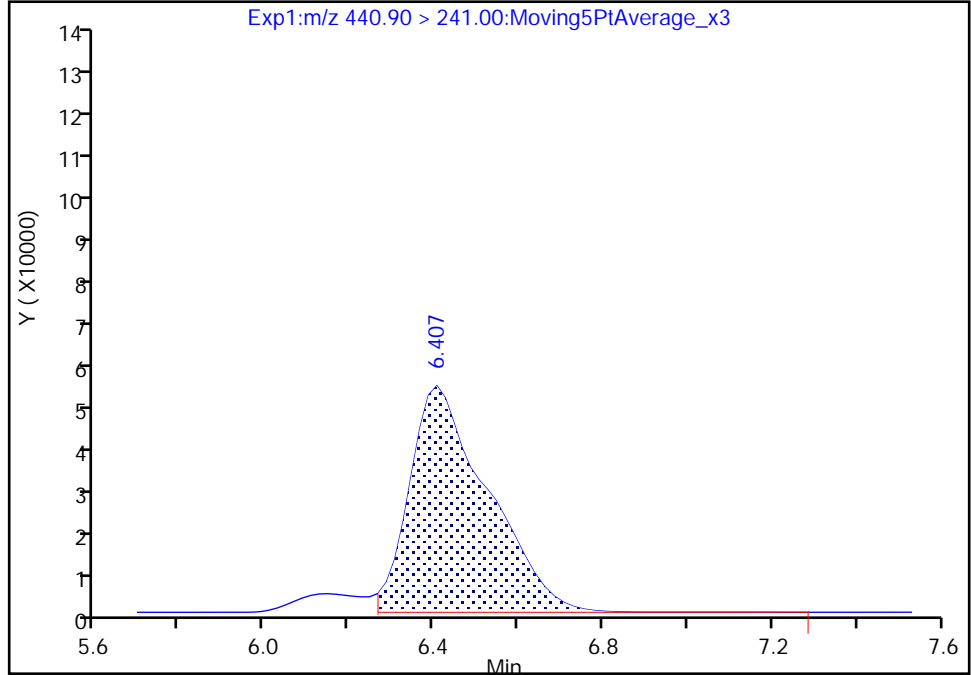
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_017.d  
Injection Date: 18-Feb-2021 21:44:29 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

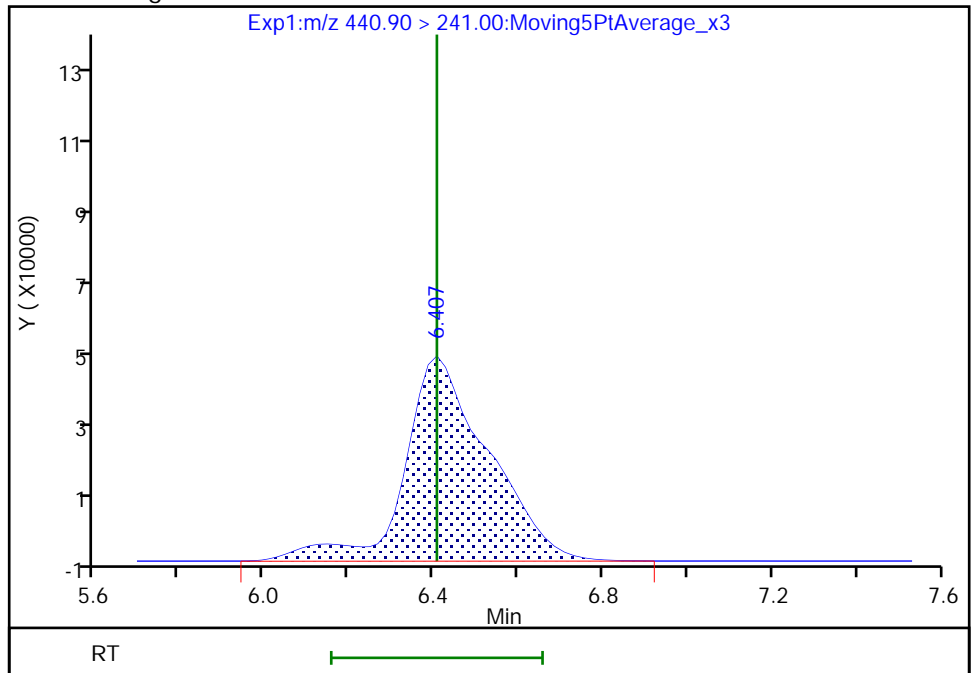
RT: 6.41  
Area: 687259  
Amount: 0.230477  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 740300  
Amount: 0.254100  
Amount Units: ng/ml

Manual Integration Results



Reviewer: phomsophat, 18-Feb-2021 22:59:56  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_019.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 18-Feb-2021 22:19:33 ALS Bottle#: 19 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (42)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:17 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: fariasa Date: 19-Feb-2021 09:35:22

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.197	4.081	0.116		6323610	0.5191		104	611	M
2 R-EVE										
405.00 > 217.00	6.367	6.347	0.020		3063537	0.5195		104	55701	
3 R-PSDA										
440.90 > 241.00	6.406	6.407	-0.001		1624303	0.5575		112	31713	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.486	6.486	0.0		4466220	0.5299		106	72096	
23 PMPA										
229.00 > 185.00	6.708	6.708	0.0		11649973	0.4752		95.0	11296	
5 NVHOS										
297.00 > 135.00	7.110	7.087	0.023		4975693	0.5262		105	90496	
6 PFO2HxA										
245.00 > 85.00	7.675	7.676	-0.001		9253771	0.5161		103	73219	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		5474314	0.5209		104	17929	
7 PES										
314.90 > 135.00	8.521	8.522	-0.001		19820030	0.5393		108	379392	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		7364685	0.4921		98.4	118583	
9 PFO3OA										
310.90 > 85.00	8.985	8.986	-0.001		3826164	0.4774		95.5	77450	
11 HPFO-DA										
285.00 > 169.00	9.102	9.102	0.0	1.000	5348270	0.5026		101	112973	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.102	9.102	0.0		2371285	0.2497		99.9	66205	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.457	9.458	-0.001		28349592	0.4634		92.7	313051	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		36265587	0.4664		93.3	251073	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		7767454	0.2152		86.1	149870	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.523	-0.033	1.000	17193907	0.5148	Target=0.00	103	73542	
363.00 > 169.00	9.490	9.523	-0.033	1.000	5031986		3.42(0.00-0.00)	103	96890	
15 Hydro-PS Acid										
463.00 > 262.90	9.522	9.523	-0.001		15550290	0.4837		96.7	260233	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		3679960	0.4093		81.9	100732	
18 PFO4DA										
376.90 > 85.00	9.759	9.760	-0.001		3780322	0.4646		92.9	29429	
20 EVE Acid										
407.00 > 262.90	9.846	9.846	0.0		24002268	0.4066		81.3	204368	
19 PS Acid										
443.00 > 146.90	9.846	9.846	0.0		6830495	0.4724		94.5	116696	
21 TAF										
442.90 > 85.00	10.322	10.348	-0.026		3184704	0.4479		89.6	3599	

**QC Flag Legend**

Processing Flags

Review Flags

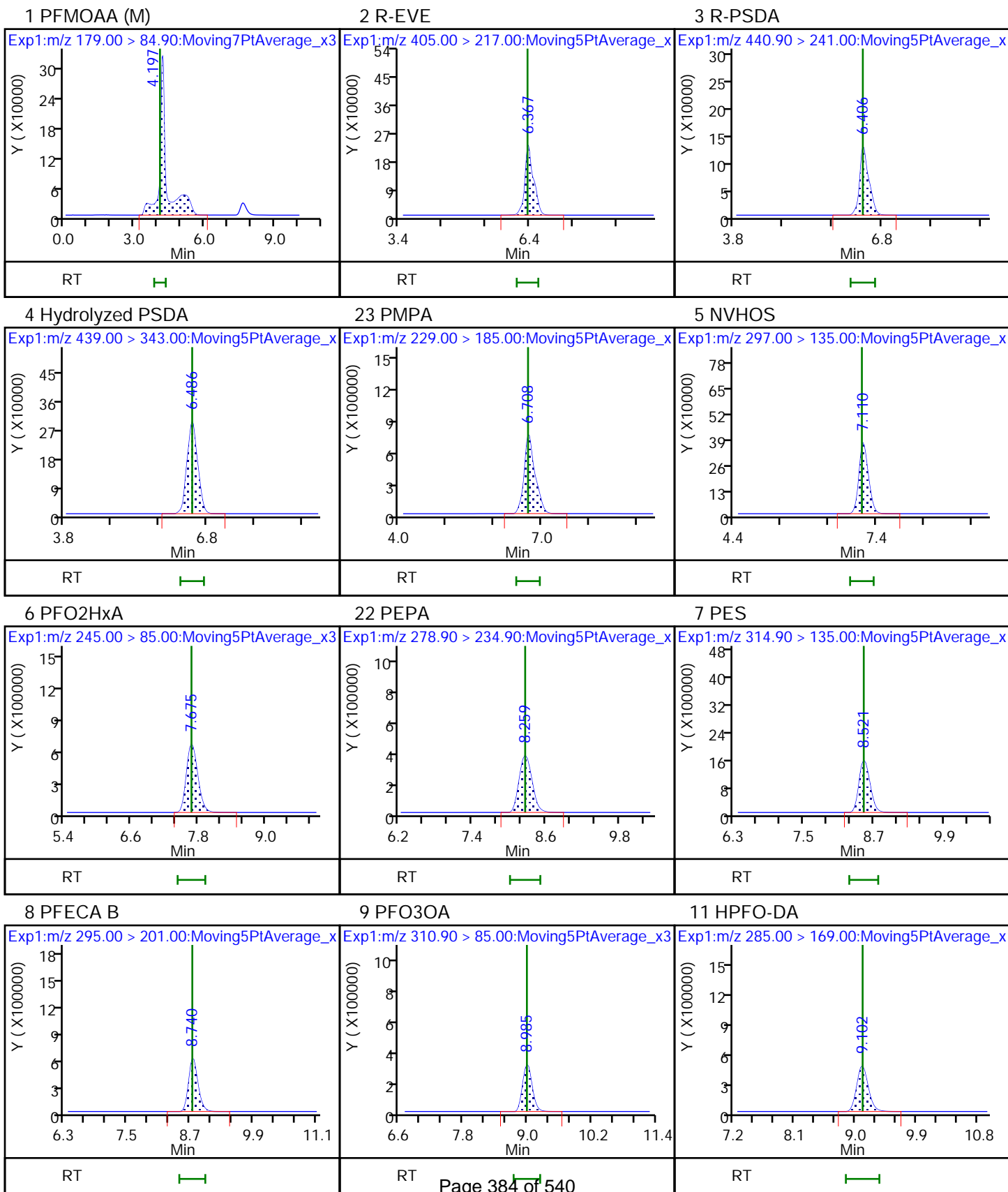
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD9\_00042

Amount Added: 1.00

Units: mL

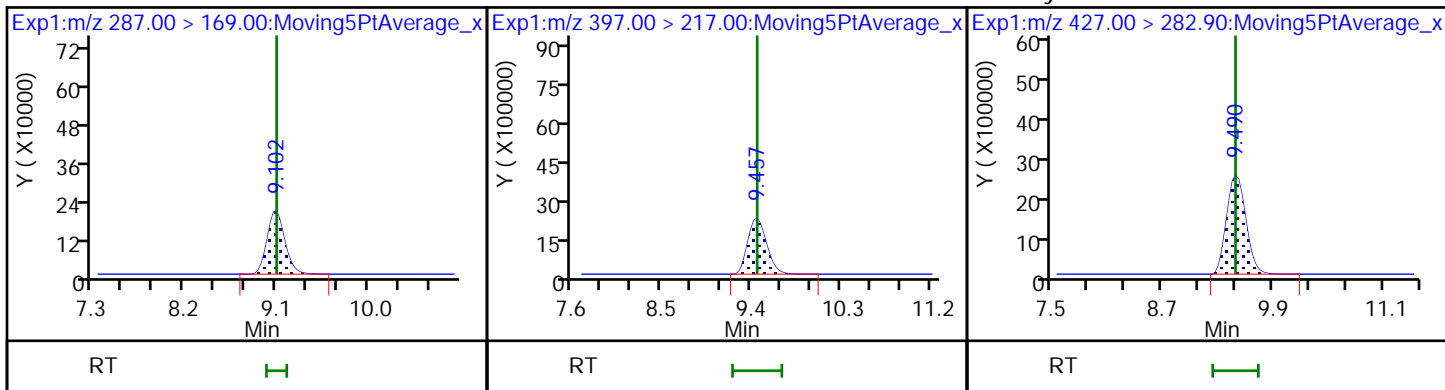




D 10 13C3 HFPO-DA

12 R-PSDCA

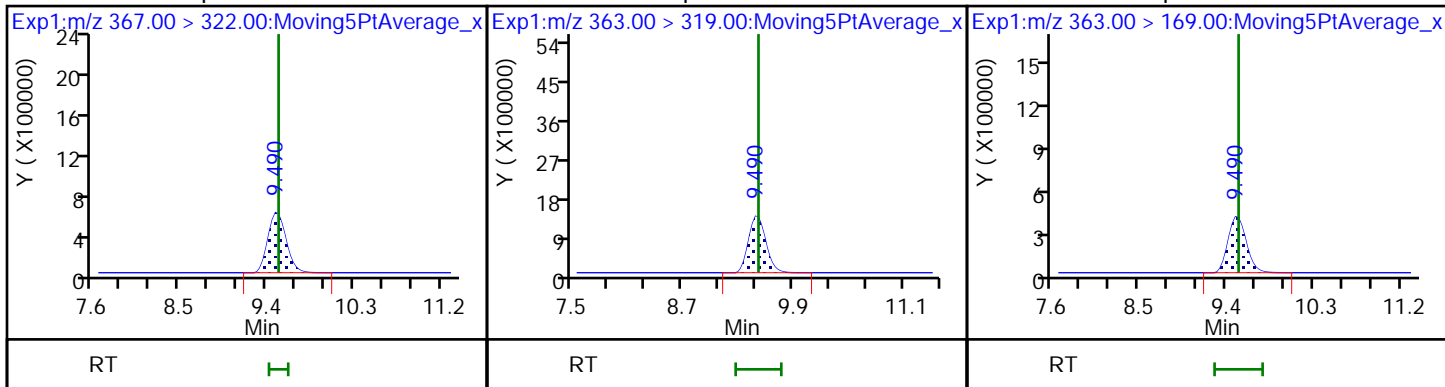
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

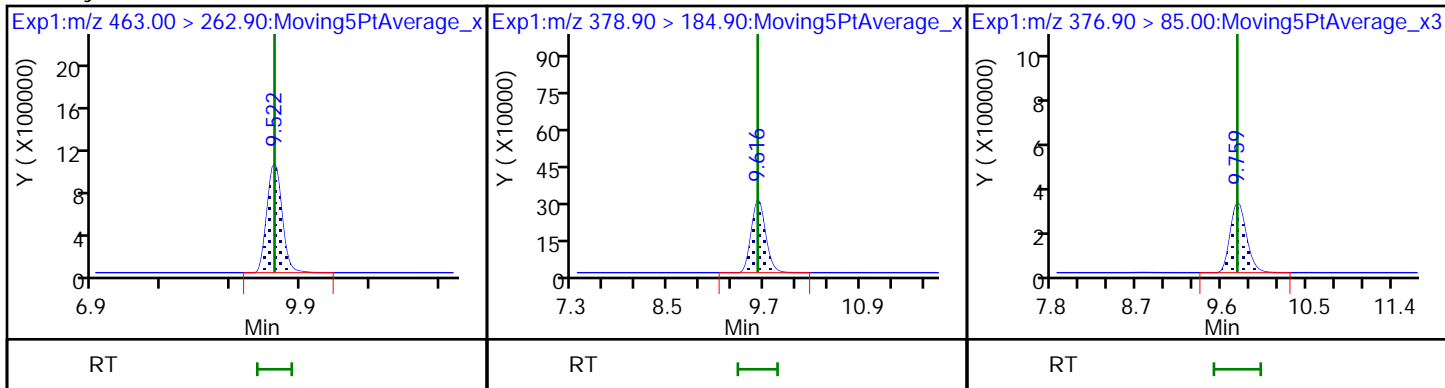
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

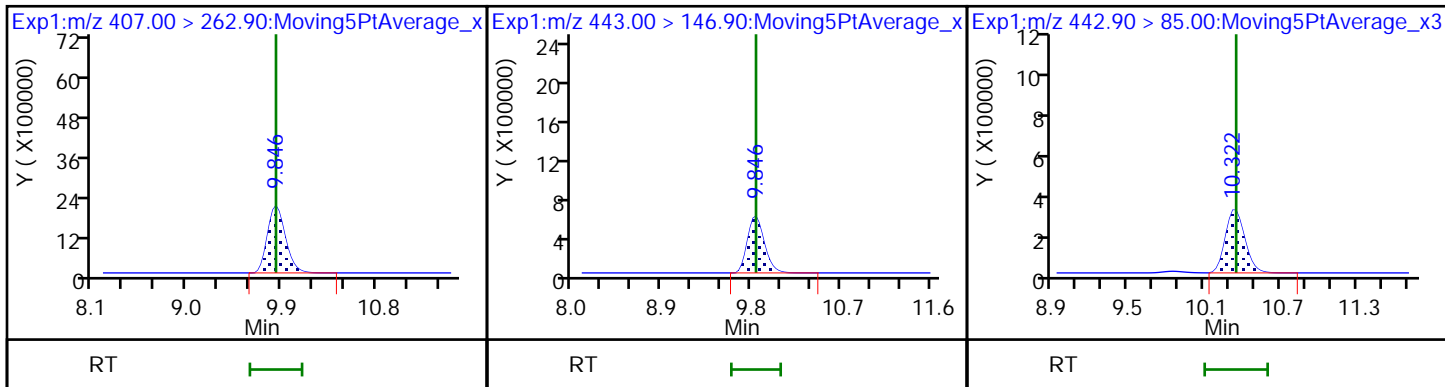
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

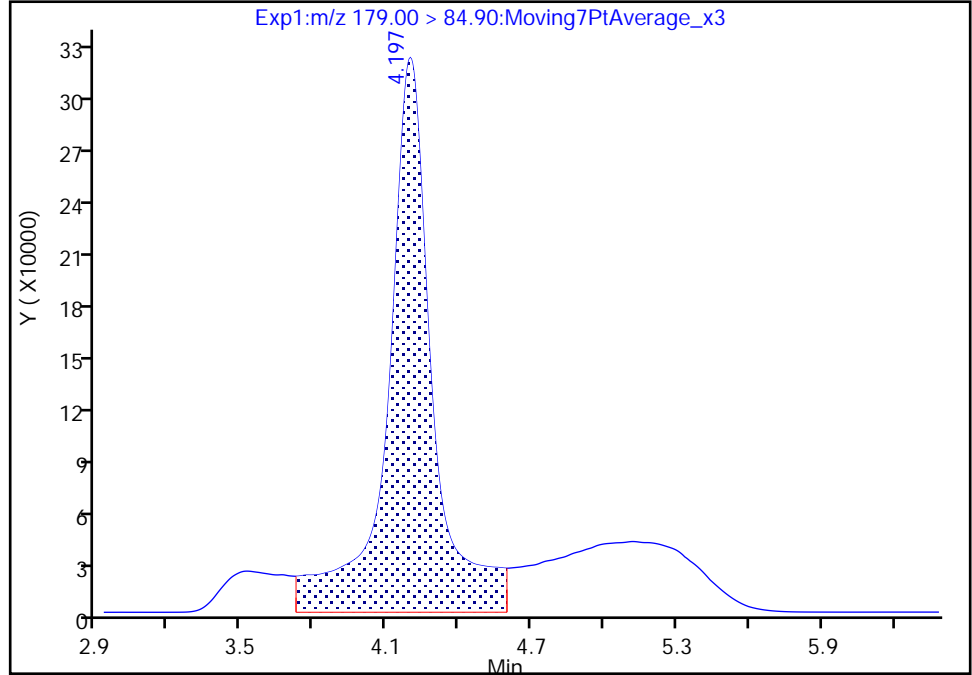
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_019.d  
Injection Date: 18-Feb-2021 22:19:33 Instrument ID: A12  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 19 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

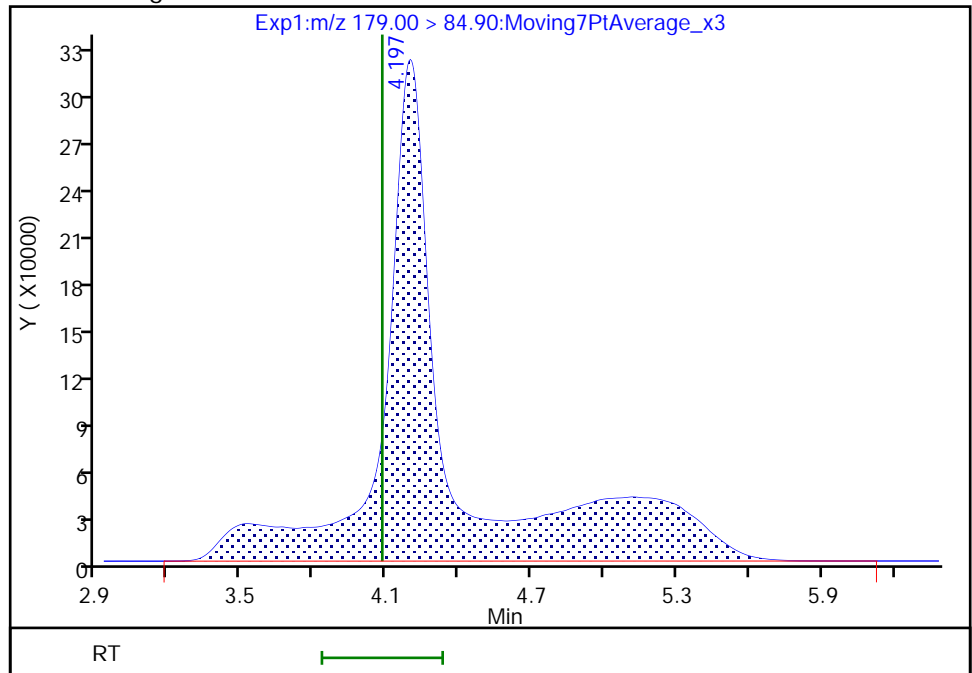
RT: 4.20  
Area: 4102132  
Amount: 0.365655  
Amount Units: ng/ml

Processing Integration Results



RT: 4.20  
Area: 6323610  
Amount: 0.519062  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 09:35:18  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 18-Feb-2021 22:37:05 ALS Bottle#: 20 Worklist Smp#: 16  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (41)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 11:59:18 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: fariasa Date: 19-Feb-2021 09:36:42

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.180	4.081	0.099		12383298	1.02		102	721	M
2 R-EVE										
405.00 > 217.00	6.347	6.347	0.0		6246631	1.06		106	116252	
3 R-PSDA										
440.90 > 241.00	6.387	6.407	-0.020		3273340	1.12		112	63429	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.466	6.486	-0.020		9010818	1.07		107	143734	
23 PMPA										
229.00 > 185.00	6.708	6.708	0.0		22543944	0.9196		92.0	22503	
5 NVHOS										
297.00 > 135.00	7.087	7.087	0.0		9761504	1.03		103	174227	
6 PFO2HxA										
245.00 > 85.00	7.647	7.676	-0.029		17270351	0.9633		96.3	134357	
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		10613649	1.01		101	32426	
7 PES										
314.90 > 135.00	8.522	8.522	0.0		35951170	0.9782		97.8	539402	
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		13440388	0.8980		89.8	216671	
9 PFO3OA										
310.90 > 85.00	8.985	8.986	-0.001		6077526	0.7584		75.8	96863	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.074	9.102	-0.028		2232876	0.2352		94.1	62518	
11 HPFO-DA										
285.00 > 169.00	9.074	9.102	-0.028	1.000	9287029	0.9268		92.7	195088	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.425	9.458	-0.033		46984872	0.7681		76.8	361161	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		63961107	0.8226		82.3	314794	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		6957880	0.1928		77.1	134945	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.523	-0.033	1.000	28868614	0.9654	Target=0.00	96.5	89695	
363.00 > 169.00	9.490	9.523	-0.033	1.000	9107816		3.17(0.00-0.00)	96.5	141188	
15 Hydro-PS Acid										
463.00 > 262.90	9.523	9.523	0.0		30486271	0.9483		94.8	336153	
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		5360778	0.5962		59.6	144992	
18 PFO4DA										
376.90 > 85.00	9.760	9.760	0.0		6762788	0.8312		83.1	38203	
20 EVE Acid										
407.00 > 262.90	9.817	9.846	-0.029		36935662	0.6257		62.6	237395	
19 PS Acid										
443.00 > 146.90	9.817	9.846	-0.029		11752345	0.8127		81.3	166991	
21 TAF										
442.90 > 85.00	10.322	10.348	-0.026		6280911	0.8833		88.3	4928	

**QC Flag Legend**

Processing Flags

Review Flags

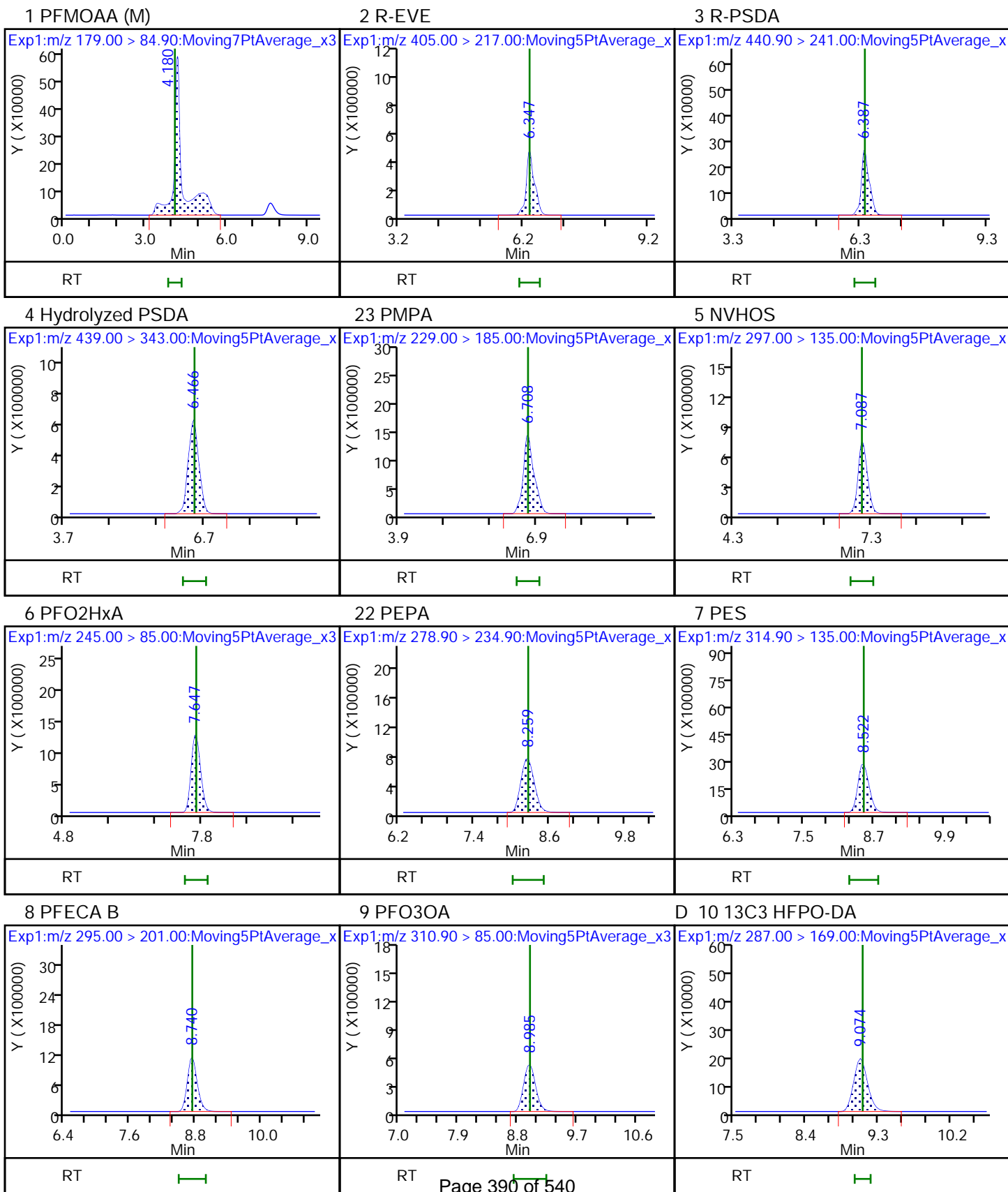
M - Manually Integrated

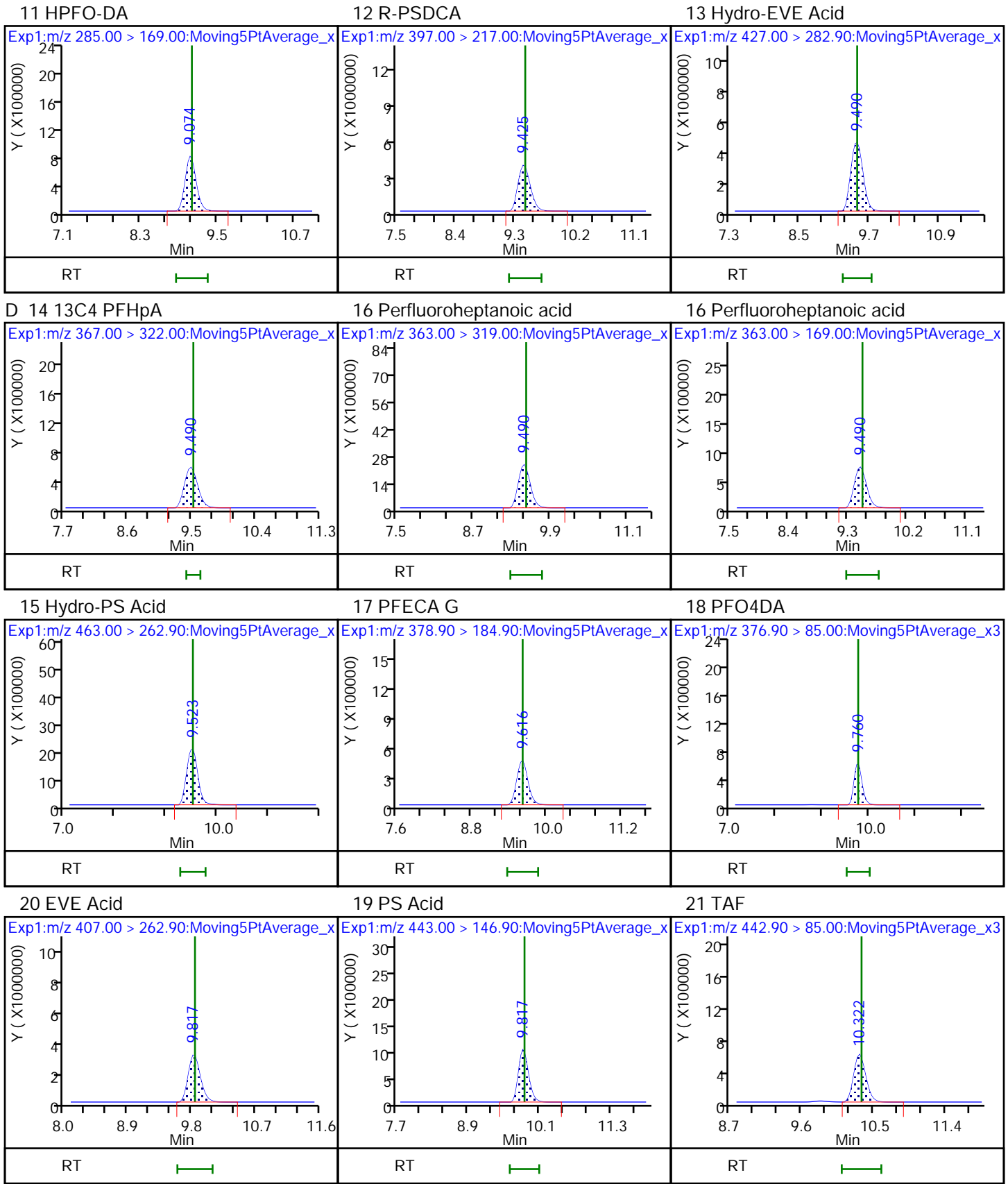
**Reagents:**

LCTB3\_LLSTD10\_00041

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

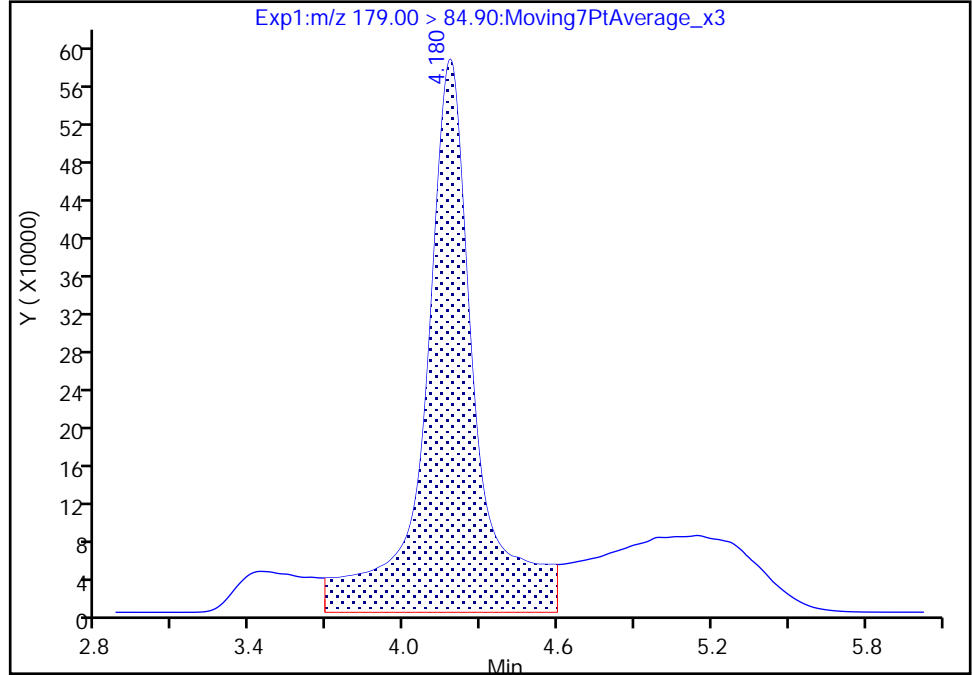
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
Injection Date: 18-Feb-2021 22:37:05 Instrument ID: A12  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 20 Worklist Smp#: 16  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

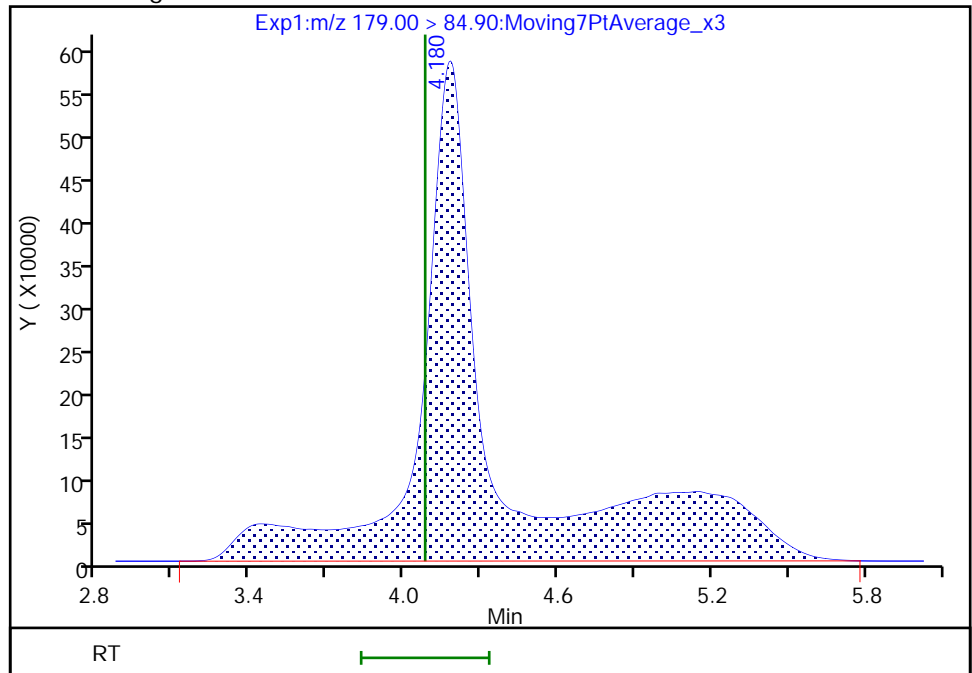
RT: 4.18  
Area: 7969739  
Amount: 0.680462  
Amount Units: ng/ml

Processing Integration Results



RT: 4.18  
Area: 12383298  
Amount: 1.016460  
Amount Units: ng/ml

Manual Integration Results



Calibration

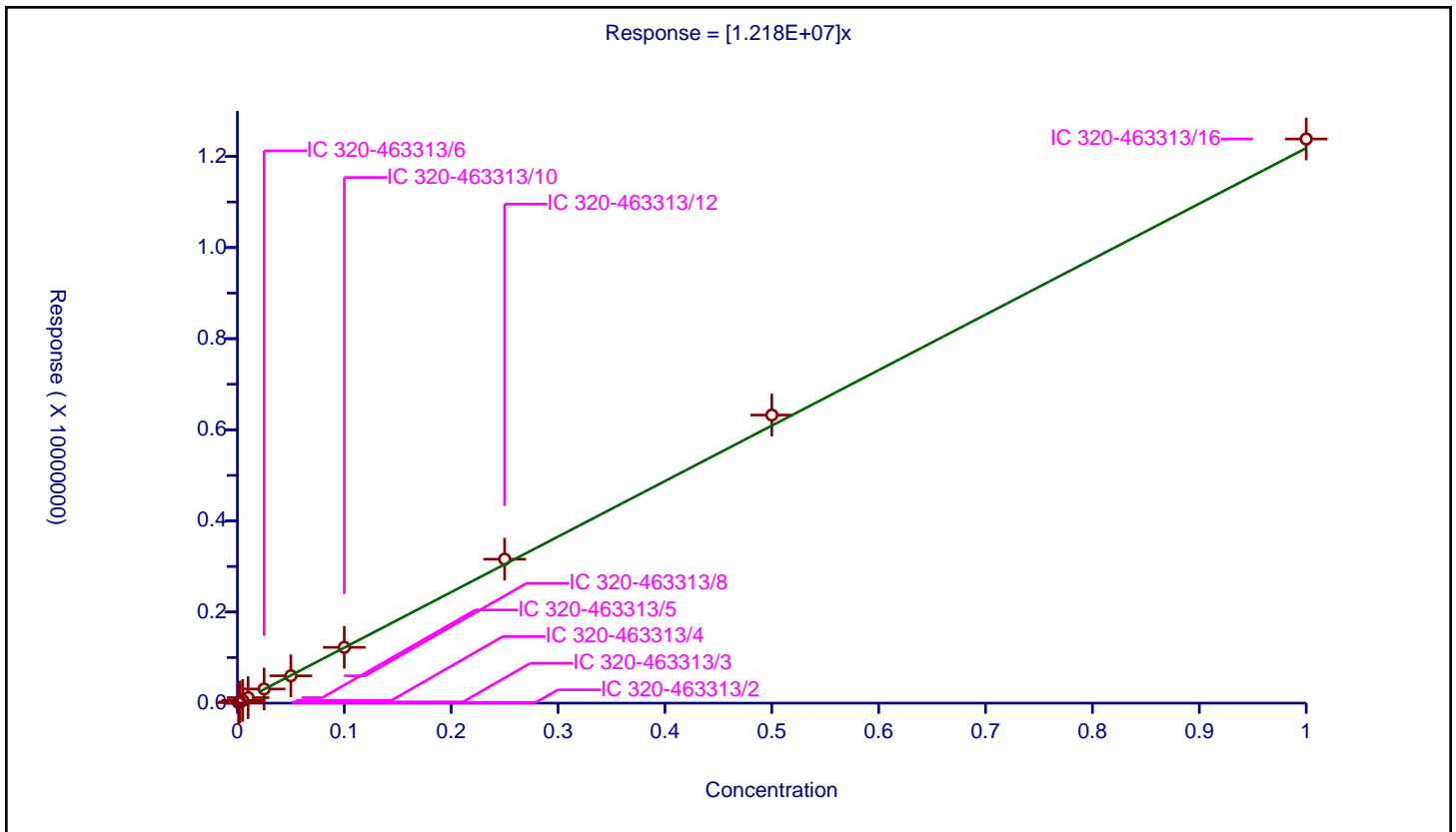
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.218E+07

Error Coefficients	
Standard Error:	109000
Relative Standard Error:	3.0
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	12155.0			12155000.0	Y
2	IC 320-463313/3	0.0025	28631.0			11452400.0	Y
3	IC 320-463313/4	0.005	59278.0			11855600.0	Y
4	IC 320-463313/5	0.01	120600.0			12060000.0	Y
5	IC 320-463313/6	0.025	310108.0			12404320.0	Y
6	IC 320-463313/8	0.05	599340.0			11986800.0	Y
7	IC 320-463313/10	0.1	1224486.0			12244860.0	Y
8	IC 320-463313/12	0.25	3159559.0			12638236.0	Y
9	IC 320-463313/14	0.5	6323610.0			12647220.0	Y
10	IC 320-463313/16	1.0	12383298.0			12383298.0	Y



**Calibration**

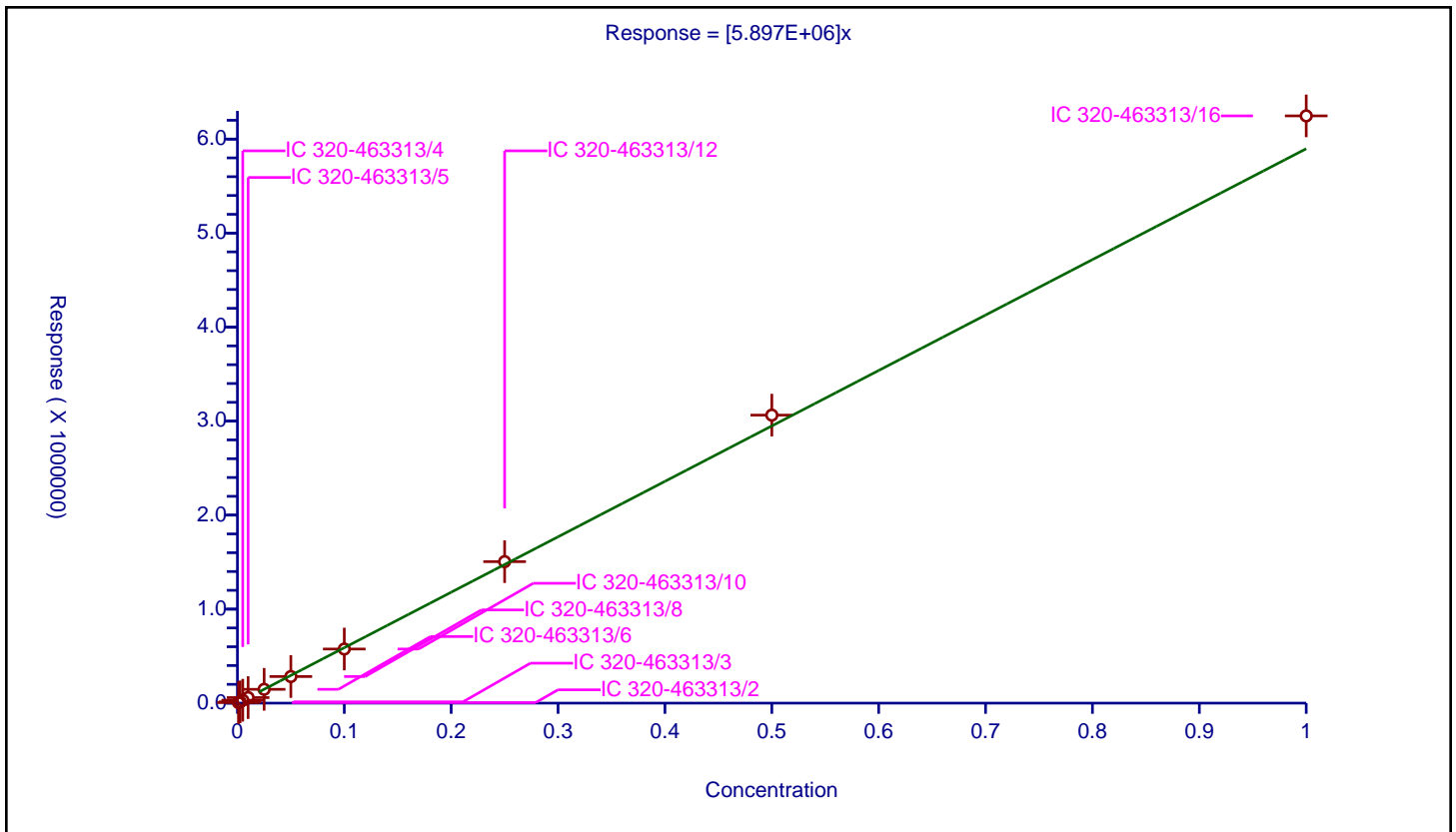
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.897E+06

Error Coefficients	
Standard Error:	123000
Relative Standard Error:	4.3
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	5742.0			5742000.0	Y
2	IC 320-463313/3	0.0025	13642.0			5456800.0	Y
3	IC 320-463313/4	0.005	30974.0			6194800.0	Y
4	IC 320-463313/5	0.01	59014.0			5901400.0	Y
5	IC 320-463313/6	0.025	146873.0			5874920.0	Y
6	IC 320-463313/8	0.05	282768.0			5655360.0	Y
7	IC 320-463313/10	0.1	575520.0			5755200.0	Y
8	IC 320-463313/12	0.25	1504988.0			6019952.0	Y
9	IC 320-463313/14	0.5	3063537.0			6127074.0	Y
10	IC 320-463313/16	1.0	6246631.0			6246631.0	Y



Calibration

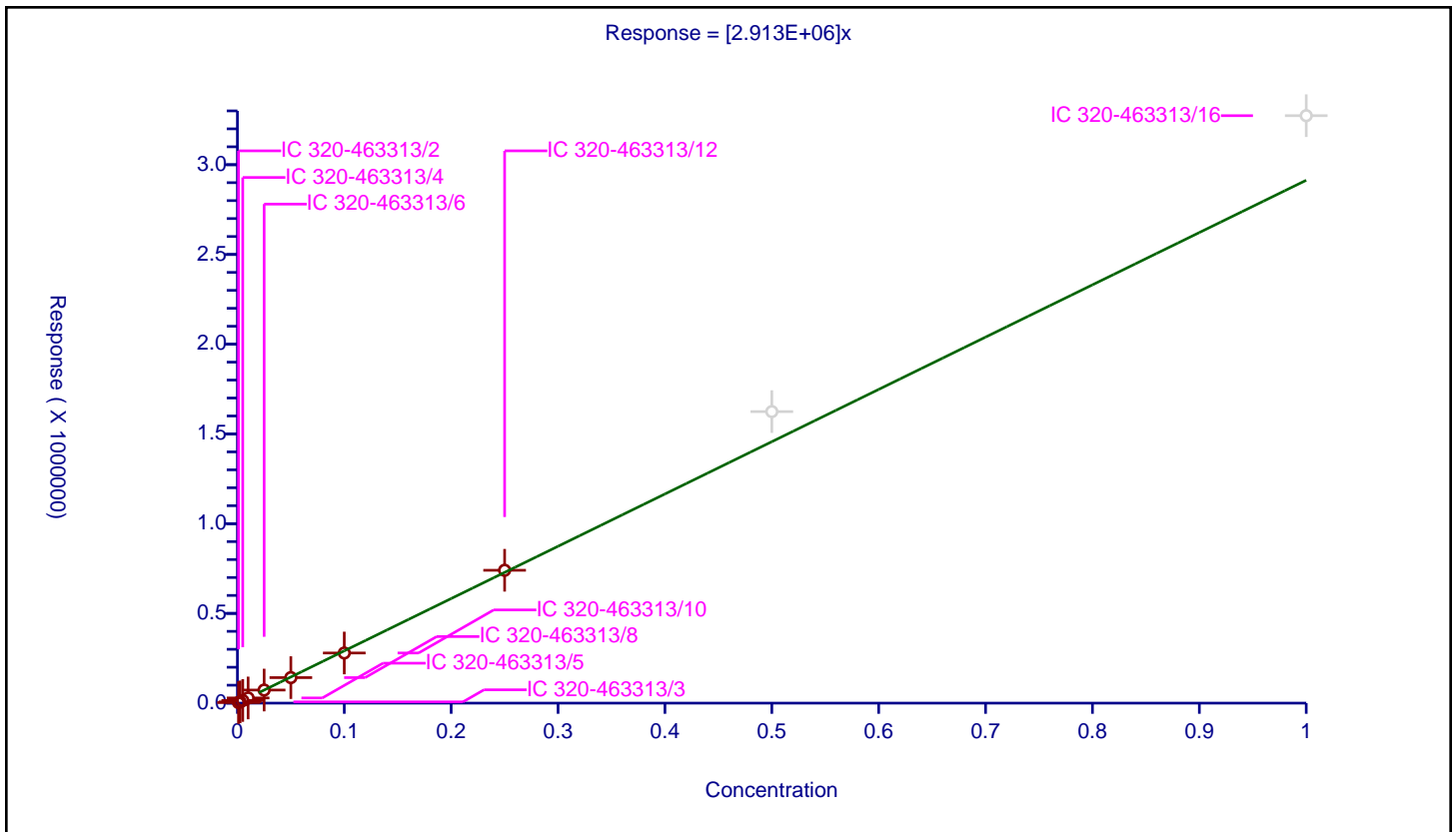
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.913E+06

Error Coefficients	
Standard Error:	6510
Relative Standard Error:	3.5
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	3119.0			3119000.0	Y
2	IC 320-463313/3	0.0025	7064.0			2825600.0	Y
3	IC 320-463313/4	0.005	14746.0			2949200.0	Y
4	IC 320-463313/5	0.01	28931.0			2893100.0	Y
5	IC 320-463313/6	0.025	72984.0			2919360.0	Y
6	IC 320-463313/8	0.05	142283.0			2845660.0	Y
7	IC 320-463313/10	0.1	279428.0			2794280.0	Y
8	IC 320-463313/12	0.25	740300.0			2961200.0	Y
9	IC 320-463313/14	0.5	1624303.0			3248606.0	N
10	IC 320-463313/16	1.0	3273340.0			3273340.0	N



**Calibration**

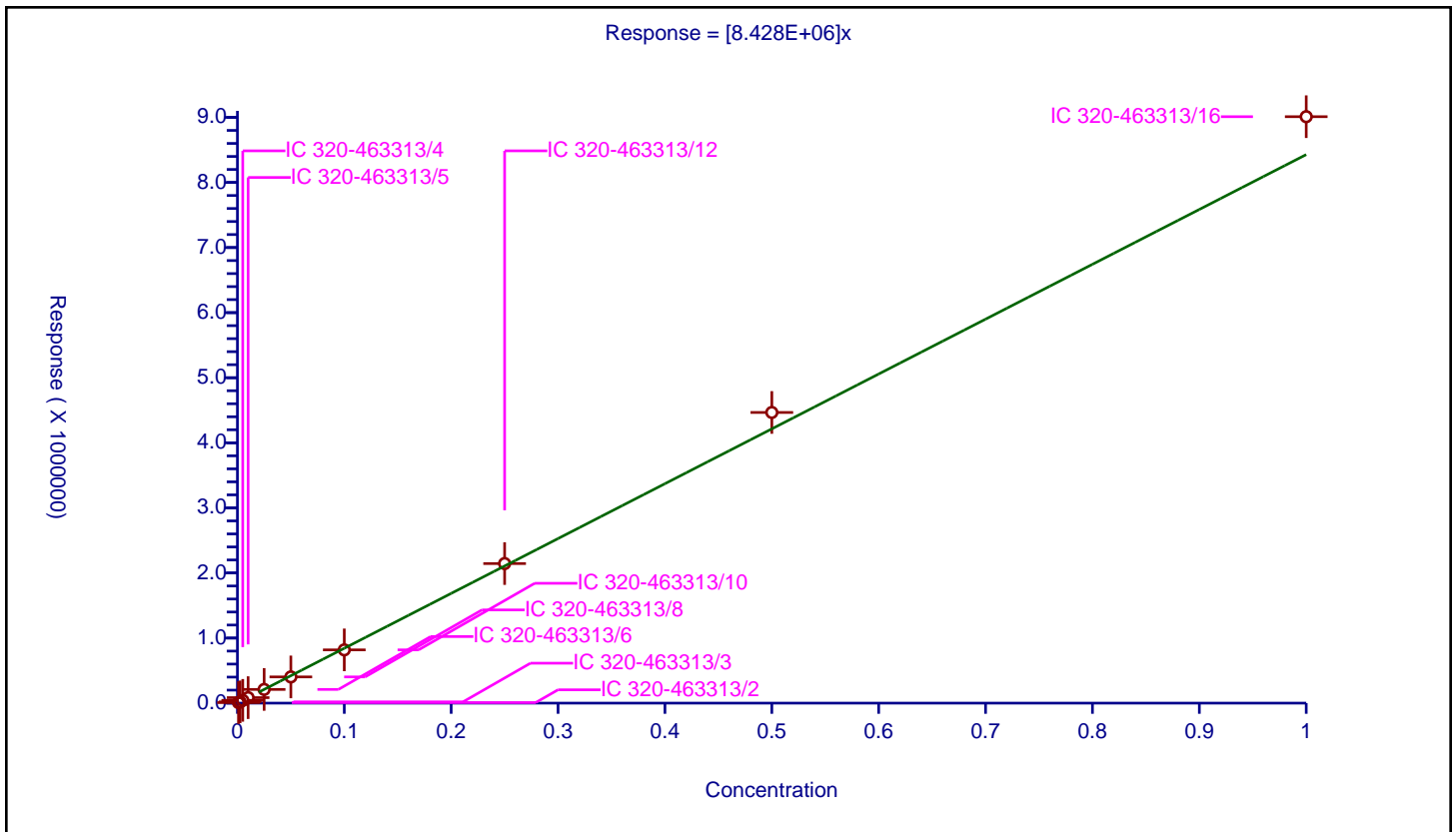
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.428E+06

Error Coefficients	
Standard Error:	212000
Relative Standard Error:	4.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	8254.0			8254000.0	Y
2	IC 320-463313/3	0.0025	19560.0			7824000.0	Y
3	IC 320-463313/4	0.005	42957.0			8591400.0	Y
4	IC 320-463313/5	0.01	84408.0			8440800.0	Y
5	IC 320-463313/6	0.025	210375.0			8415000.0	Y
6	IC 320-463313/8	0.05	402740.0			8054800.0	Y
7	IC 320-463313/10	0.1	818335.0			8183350.0	Y
8	IC 320-463313/12	0.25	2144411.0			8577644.0	Y
9	IC 320-463313/14	0.5	4466220.0			8932440.0	Y
10	IC 320-463313/16	1.0	9010818.0			9010818.0	Y



Calibration

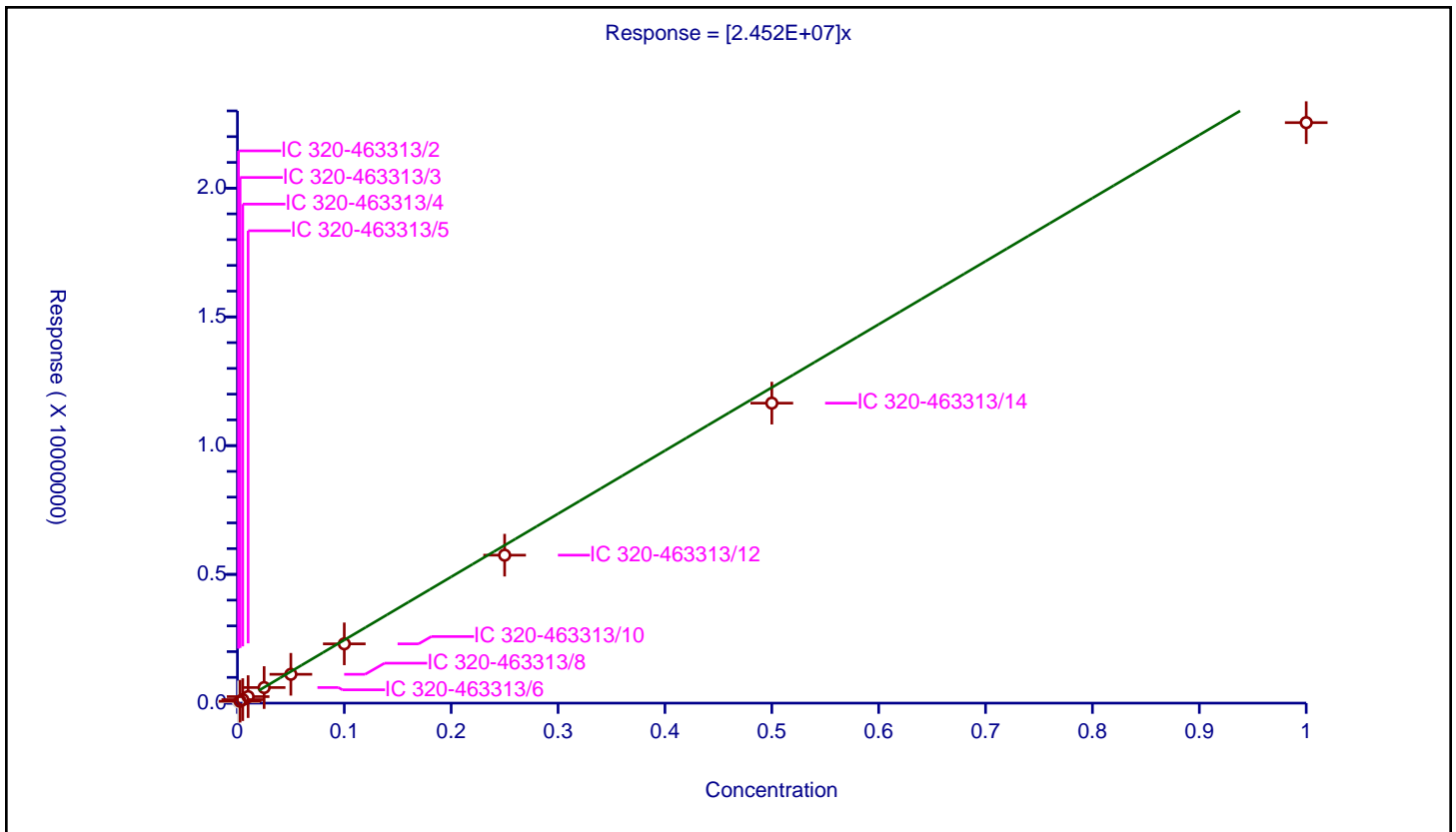
/ PMPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.452E+07

Error Coefficients	
Standard Error:	745000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	47824.0			47824000.0	N
2	IC 320-463313/3	0.0025	74388.0			29755200.0	Y
3	IC 320-463313/4	0.005	135883.0			27176600.0	Y
4	IC 320-463313/5	0.01	252631.0			25263100.0	Y
5	IC 320-463313/6	0.025	605079.0			24203160.0	Y
6	IC 320-463313/8	0.05	1119989.0			22399780.0	Y
7	IC 320-463313/10	0.1	2302039.0			23020390.0	Y
8	IC 320-463313/12	0.25	5745866.0			22983464.0	Y
9	IC 320-463313/14	0.5	11649973.0			23299946.0	Y
10	IC 320-463313/16	1.0	22543944.0			22543944.0	Y



Calibration

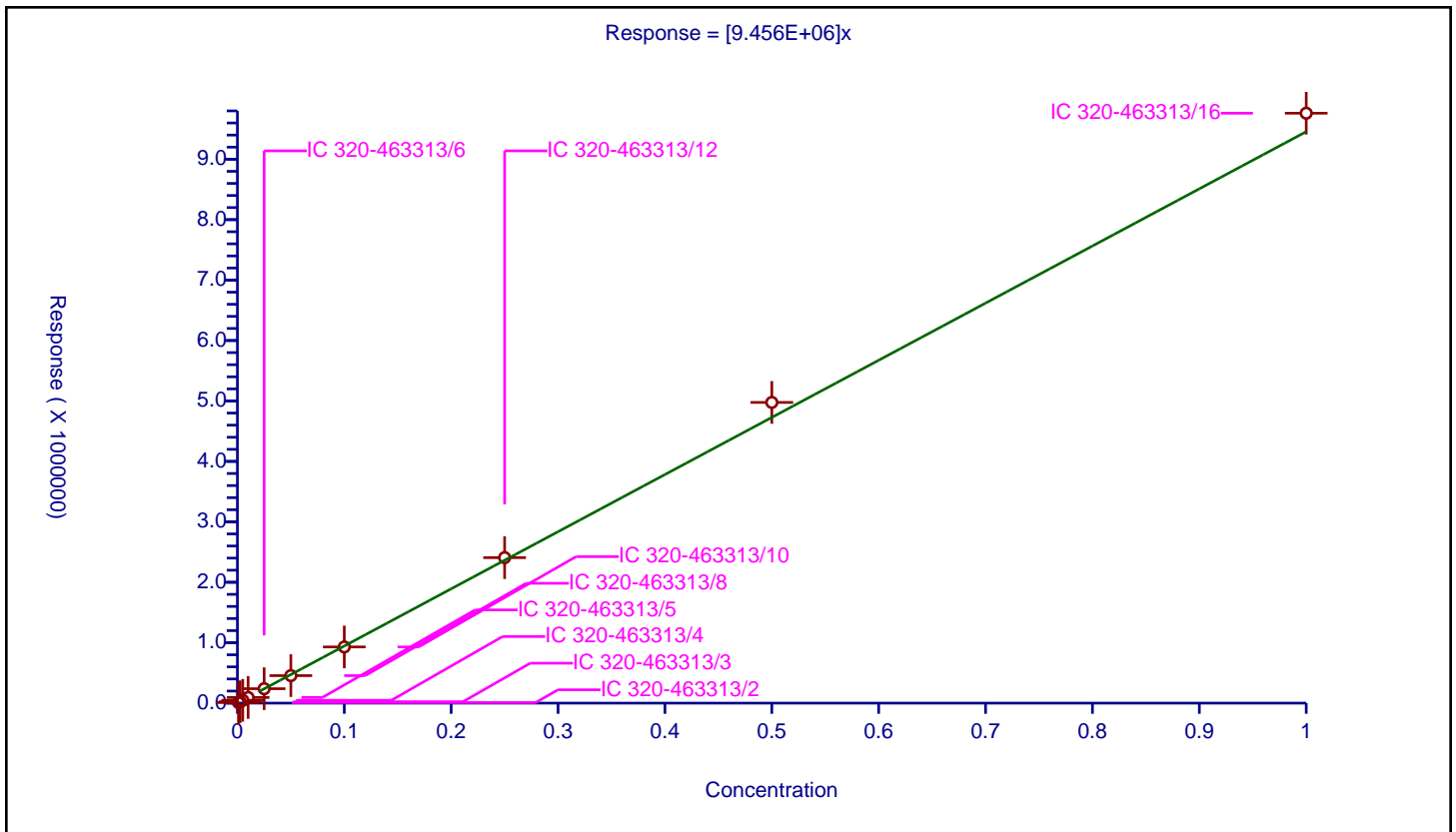
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.456E+06

Error Coefficients	
Standard Error:	132000
Relative Standard Error:	2.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	9325.0			9325000.0	Y
2	IC 320-463313/3	0.0025	23050.0			9220000.0	Y
3	IC 320-463313/4	0.005	46777.0			9355400.0	Y
4	IC 320-463313/5	0.01	93668.0			9366800.0	Y
5	IC 320-463313/6	0.025	238813.0			9552520.0	Y
6	IC 320-463313/8	0.05	455000.0			9100000.0	Y
7	IC 320-463313/10	0.1	929697.0			9296970.0	Y
8	IC 320-463313/12	0.25	2407481.0			9629924.0	Y
9	IC 320-463313/14	0.5	4975693.0			9951386.0	Y
10	IC 320-463313/16	1.0	9761504.0			9761504.0	Y



Calibration

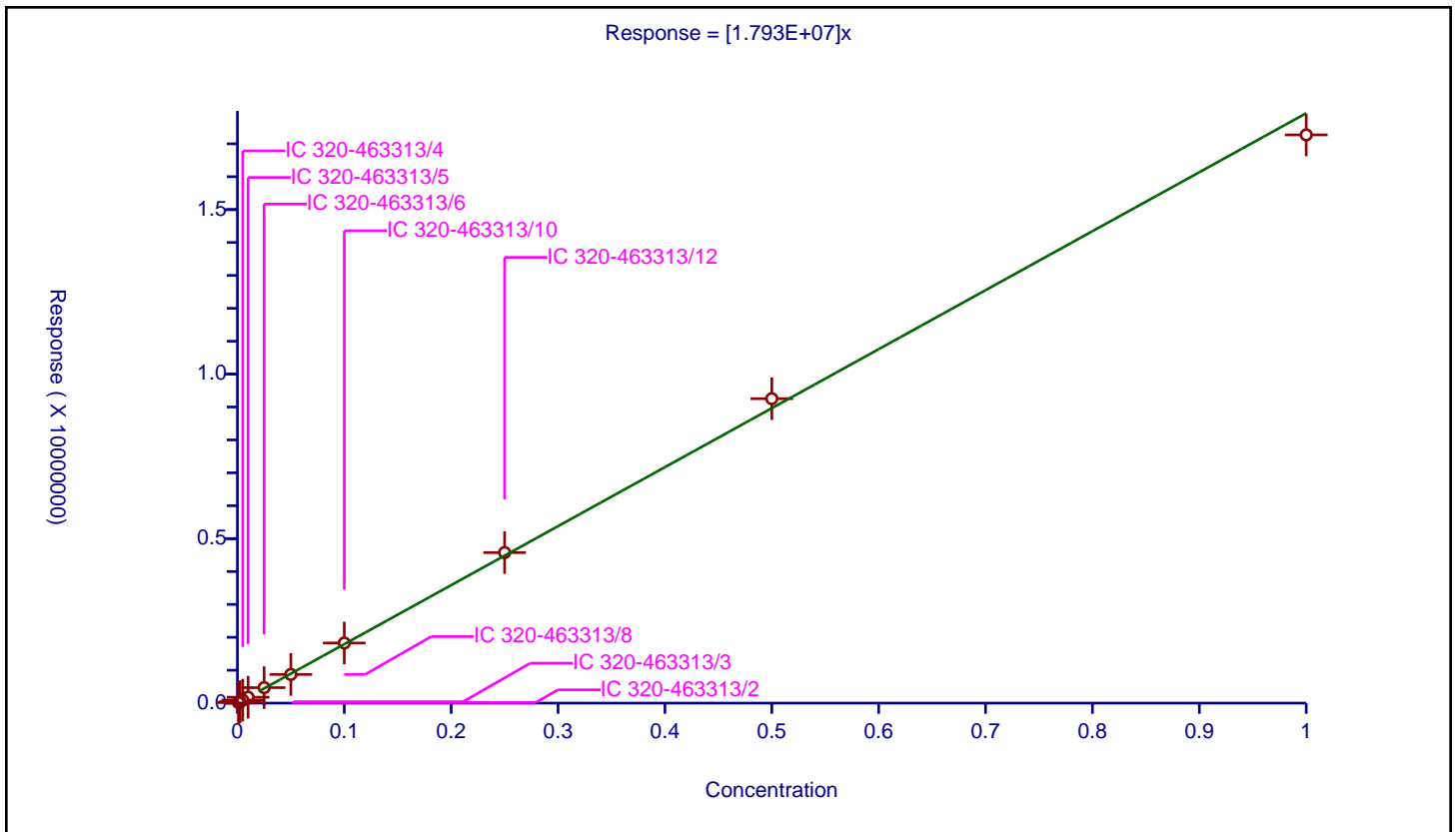
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.793E+07

Error Coefficients	
Standard Error:	242000
Relative Standard Error:	3.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	17569.0			17569000.0	Y
2	IC 320-463313/3	0.0025	42839.0			17135600.0	Y
3	IC 320-463313/4	0.005	89972.0			17994400.0	Y
4	IC 320-463313/5	0.01	179433.0			17943300.0	Y
5	IC 320-463313/6	0.025	471010.0			18840400.0	Y
6	IC 320-463313/8	0.05	872383.0			17447660.0	Y
7	IC 320-463313/10	0.1	1827751.0			18277510.0	Y
8	IC 320-463313/12	0.25	4576031.0			18304124.0	Y
9	IC 320-463313/14	0.5	9253771.0			18507542.0	Y
10	IC 320-463313/16	1.0	17270351.0			17270351.0	Y





Calibration

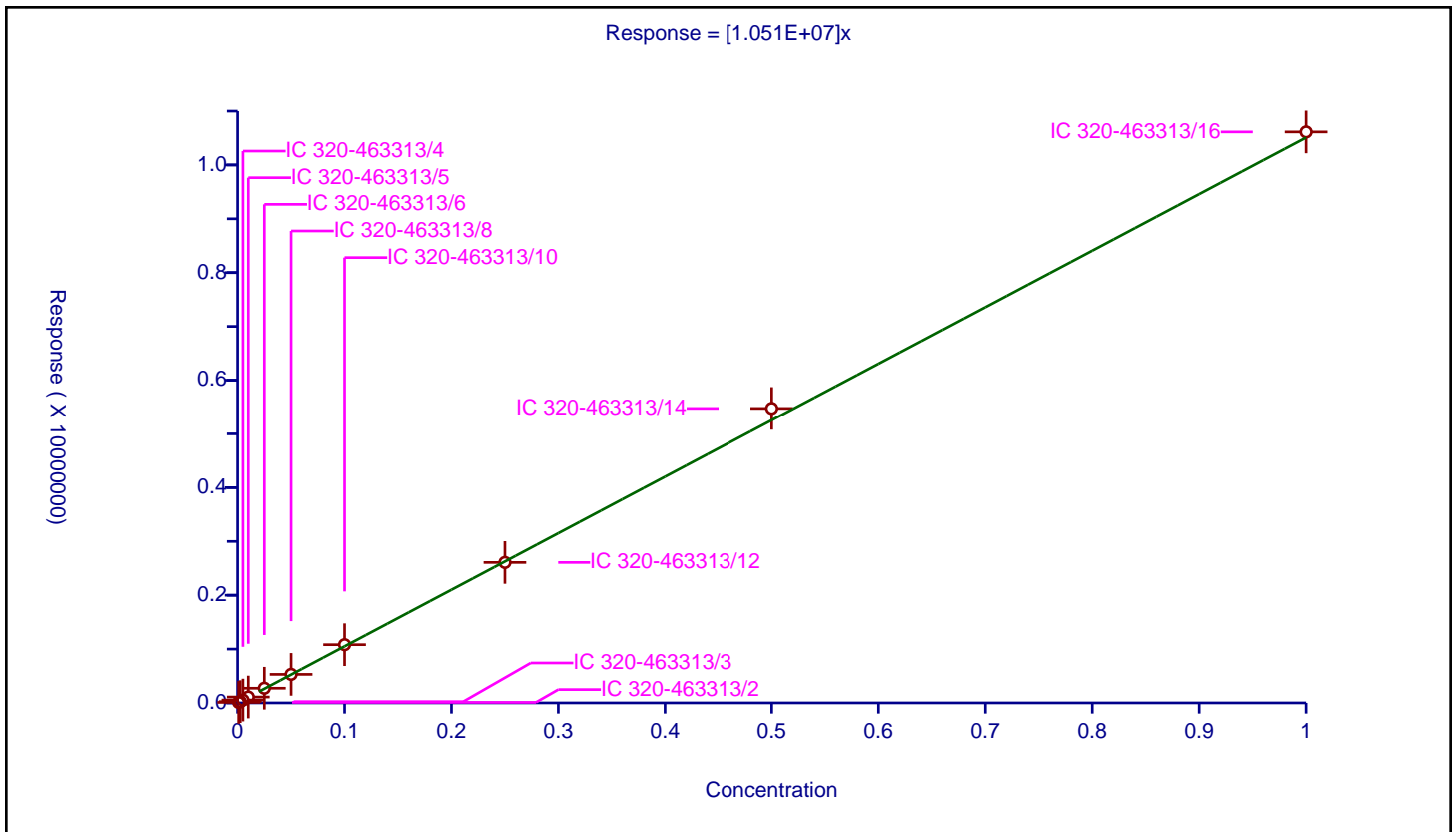
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.051E+07

Error Coefficients	
Standard Error:	82000
Relative Standard Error:	4.9
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	9597.0			9597000.0	Y
2	IC 320-463313/3	0.0025	23940.0			9576000.0	Y
3	IC 320-463313/4	0.005	53247.0			10649400.0	Y
4	IC 320-463313/5	0.01	109420.0			10942000.0	Y
5	IC 320-463313/6	0.025	272802.0			10912080.0	Y
6	IC 320-463313/8	0.05	530182.0			10603640.0	Y
7	IC 320-463313/10	0.1	1081569.0			10815690.0	Y
8	IC 320-463313/12	0.25	2609032.0			10436128.0	Y
9	IC 320-463313/14	0.5	5474314.0			10948628.0	Y
10	IC 320-463313/16	1.0	10613649.0			10613649.0	Y



**Calibration**

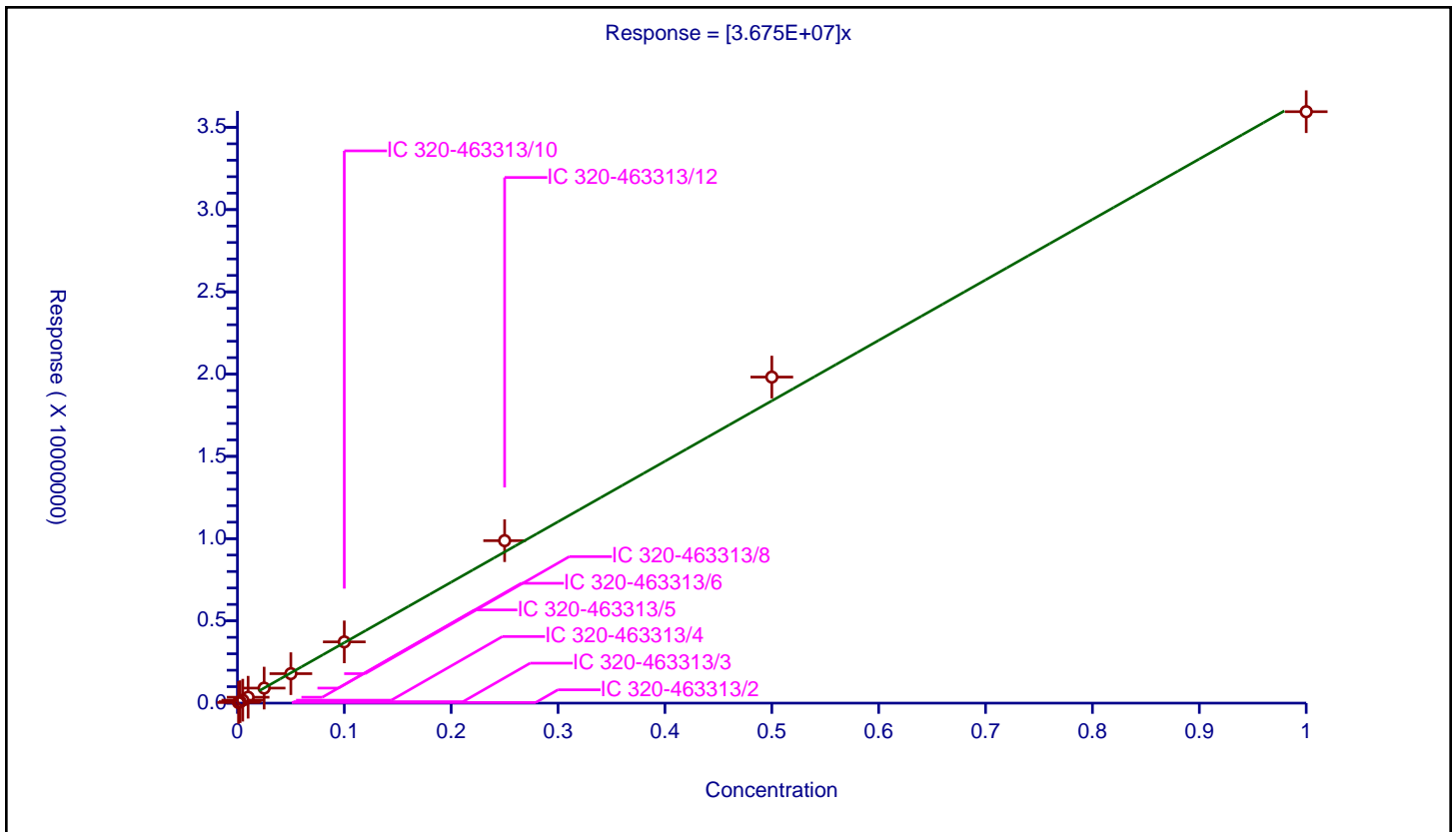
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.675E+07

Error Coefficients	
Standard Error:	597000
Relative Standard Error:	4.3
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	35722.0			35722000.0	Y
2	IC 320-463313/3	0.0025	88993.0			35597200.0	Y
3	IC 320-463313/4	0.005	178459.0			35691800.0	Y
4	IC 320-463313/5	0.01	357831.0			35783100.0	Y
5	IC 320-463313/6	0.025	914486.0			36579440.0	Y
6	IC 320-463313/8	0.05	1791030.0			35820600.0	Y
7	IC 320-463313/10	0.1	3723498.0			37234980.0	Y
8	IC 320-463313/12	0.25	9874700.0			39498800.0	Y
9	IC 320-463313/14	0.5	19820030.0			39640060.0	Y
10	IC 320-463313/16	1.0	35951170.0			35951170.0	Y



Calibration

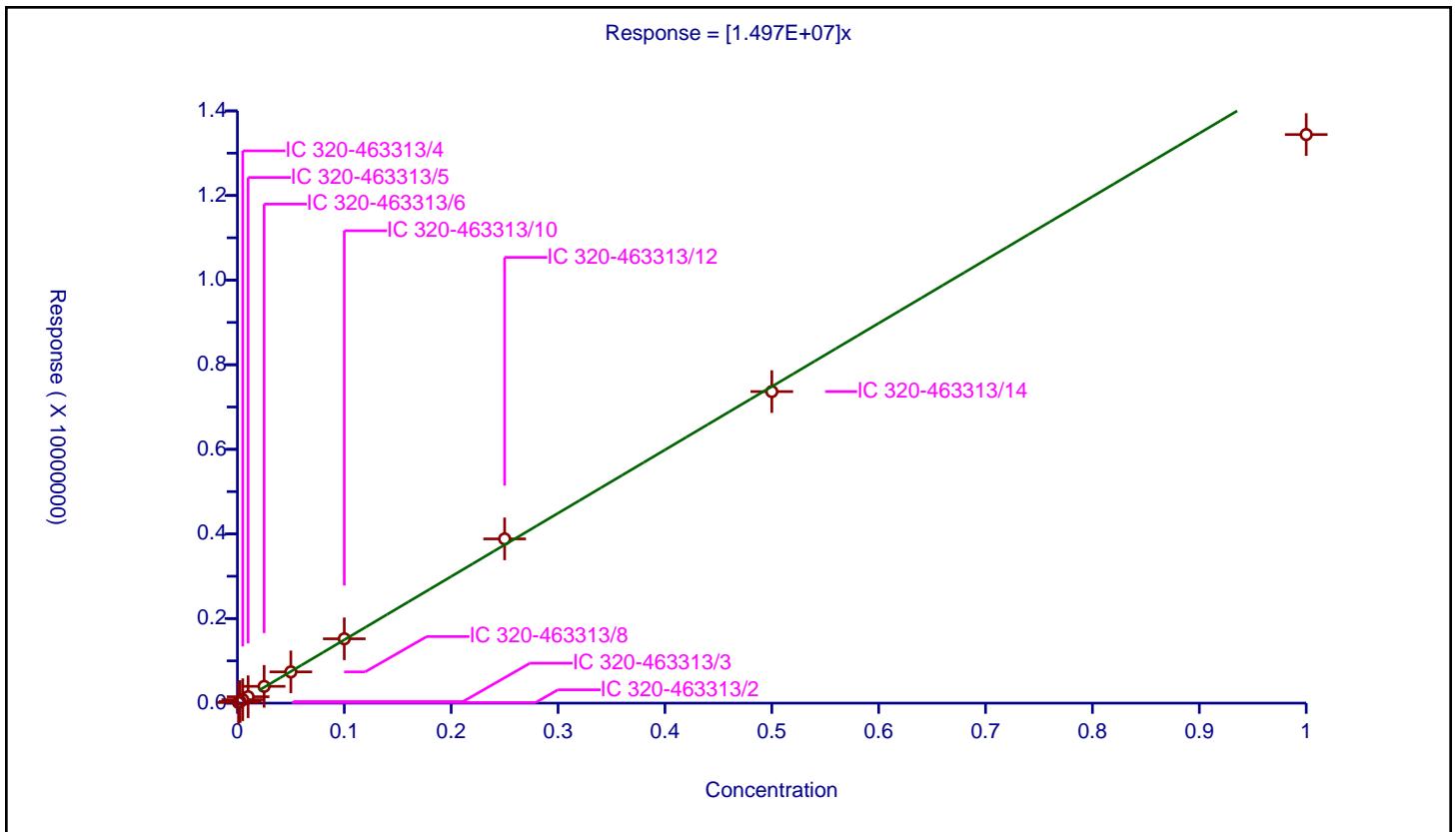
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.497E+07

Error Coefficients	
Standard Error:	513000
Relative Standard Error:	5.5
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	14116.0			14116000.0	Y
2	IC 320-463313/3	0.0025	36634.0			14653600.0	Y
3	IC 320-463313/4	0.005	81194.0			16238800.0	Y
4	IC 320-463313/5	0.01	151112.0			15111200.0	Y
5	IC 320-463313/6	0.025	396640.0			15865600.0	Y
6	IC 320-463313/8	0.05	738741.0			14774820.0	Y
7	IC 320-463313/10	0.1	1520669.0			15206690.0	Y
8	IC 320-463313/12	0.25	3882405.0			15529620.0	Y
9	IC 320-463313/14	0.5	7364685.0			14729370.0	Y
10	IC 320-463313/16	1.0	13440388.0			13440388.0	Y



Calibration

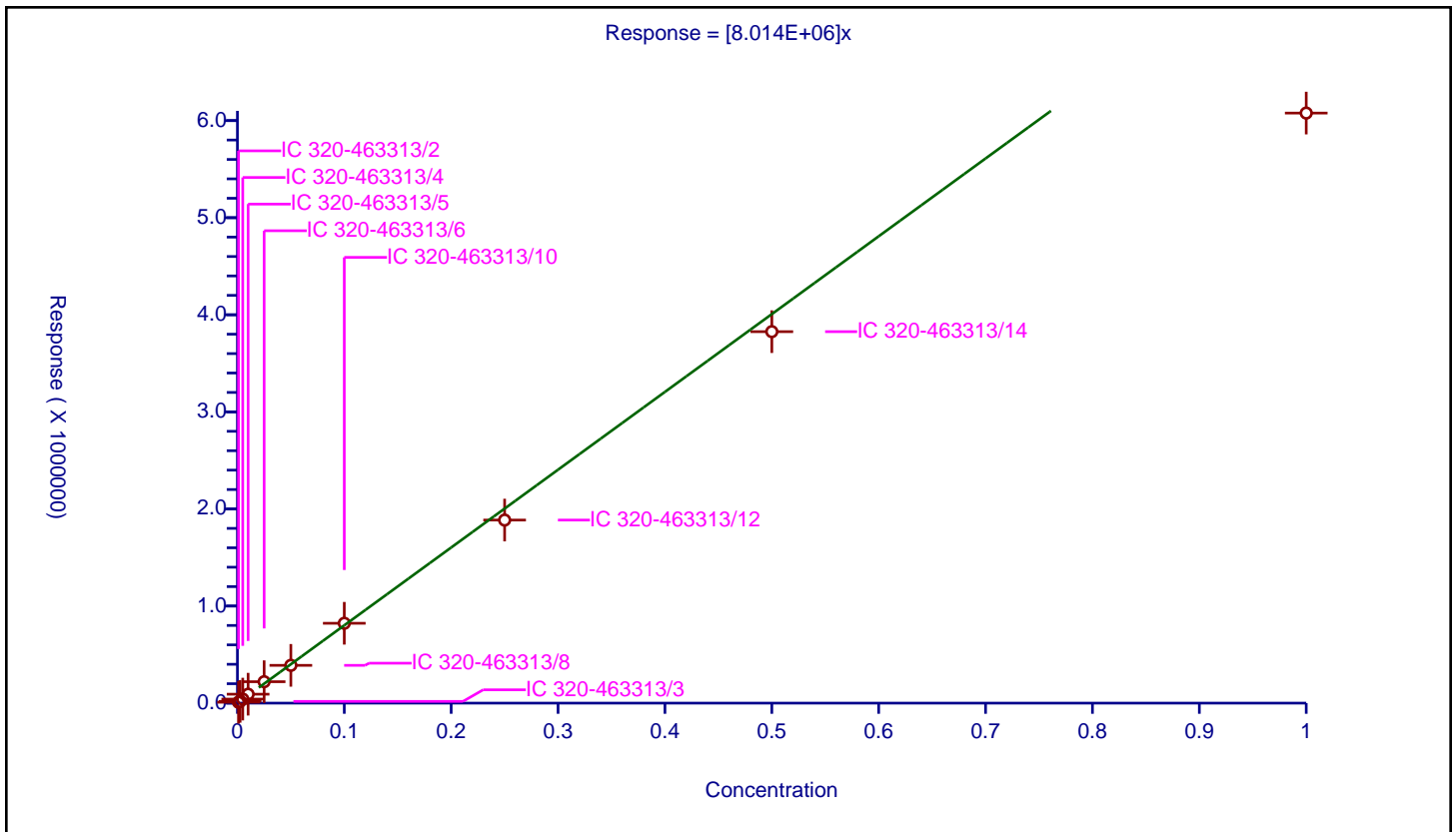
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.014E+06

Error Coefficients	
Standard Error:	650000
Relative Standard Error:	12.3
Correlation Coefficient:	0.986
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	9317.0			9317000.0	Y
2	IC 320-463313/3	0.0025	18005.0			7202000.0	Y
3	IC 320-463313/4	0.005	41634.0			8326800.0	Y
4	IC 320-463313/5	0.01	91931.0			9193100.0	Y
5	IC 320-463313/6	0.025	220607.0			8824280.0	Y
6	IC 320-463313/8	0.05	389006.0			7780120.0	Y
7	IC 320-463313/10	0.1	822450.0			8224500.0	Y
8	IC 320-463313/12	0.25	1885440.0			7541760.0	Y
9	IC 320-463313/14	0.5	3826164.0			7652328.0	Y
10	IC 320-463313/16	1.0	6077526.0			6077526.0	Y



**Calibration**

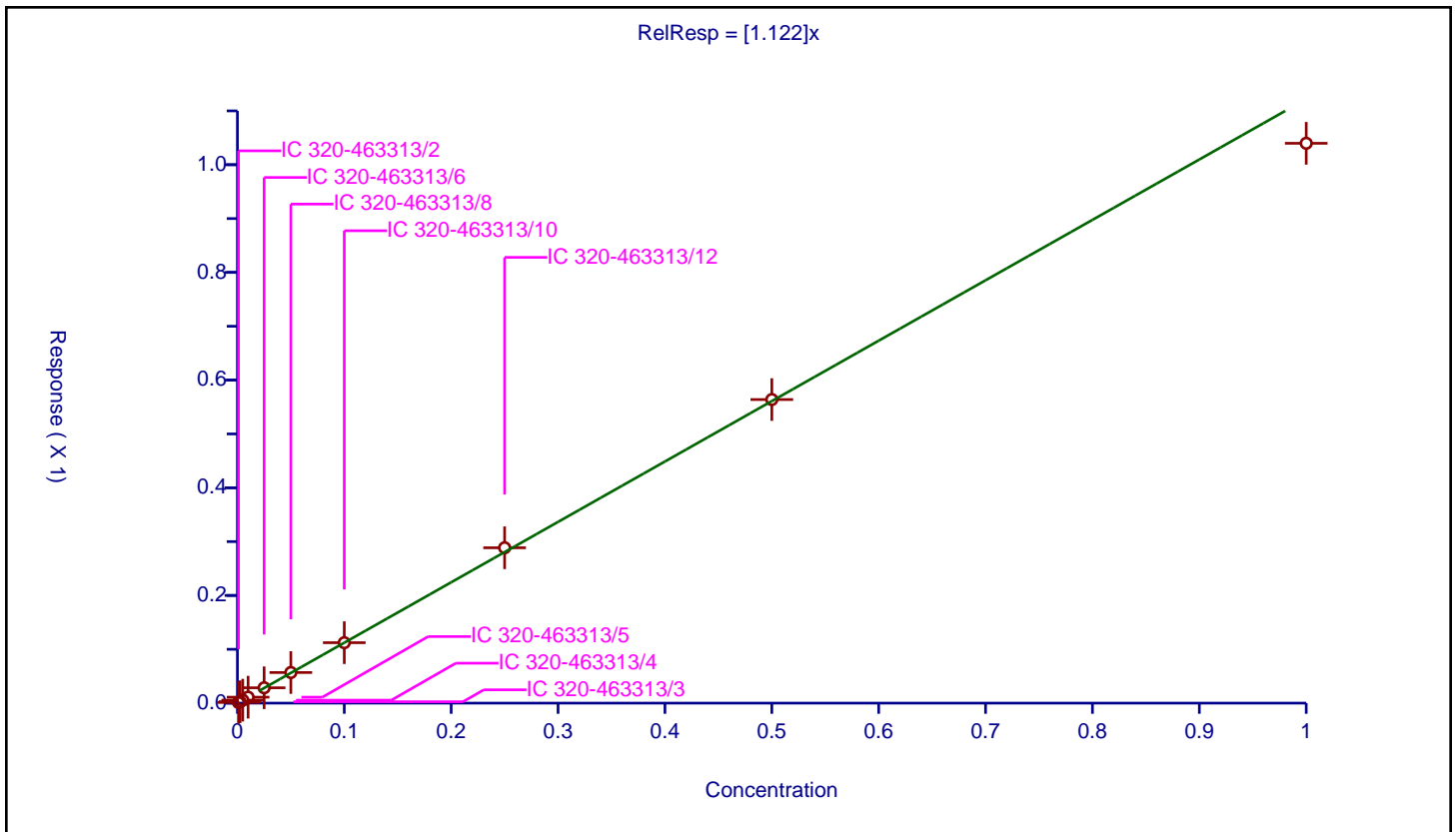
**/ Perfluoro(2-propoxypropanoic) acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.122

Error Coefficients	
Standard Error:	3700000
Relative Standard Error:	5.1
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-463313/2	0.001	0.001242	0.25	2435545.0	1.241714	Y
2	IC 320-463313/3	0.0025	0.002602	0.25	2494439.0	1.040755	Y
3	IC 320-463313/4	0.005	0.005529	0.25	2415472.0	1.105829	Y
4	IC 320-463313/5	0.01	0.011079	0.25	2513463.0	1.107944	Y
5	IC 320-463313/6	0.025	0.028537	0.25	2419373.0	1.141494	Y
6	IC 320-463313/8	0.05	0.056852	0.25	2308057.0	1.137043	Y
7	IC 320-463313/10	0.1	0.112283	0.25	2320945.0	1.122829	Y
8	IC 320-463313/12	0.25	0.288565	0.25	2225135.0	1.154259	Y
9	IC 320-463313/14	0.5	0.563858	0.25	2371285.0	1.127716	Y
10	IC 320-463313/16	1.0	1.039806	0.25	2232876.0	1.039806	Y



Calibration

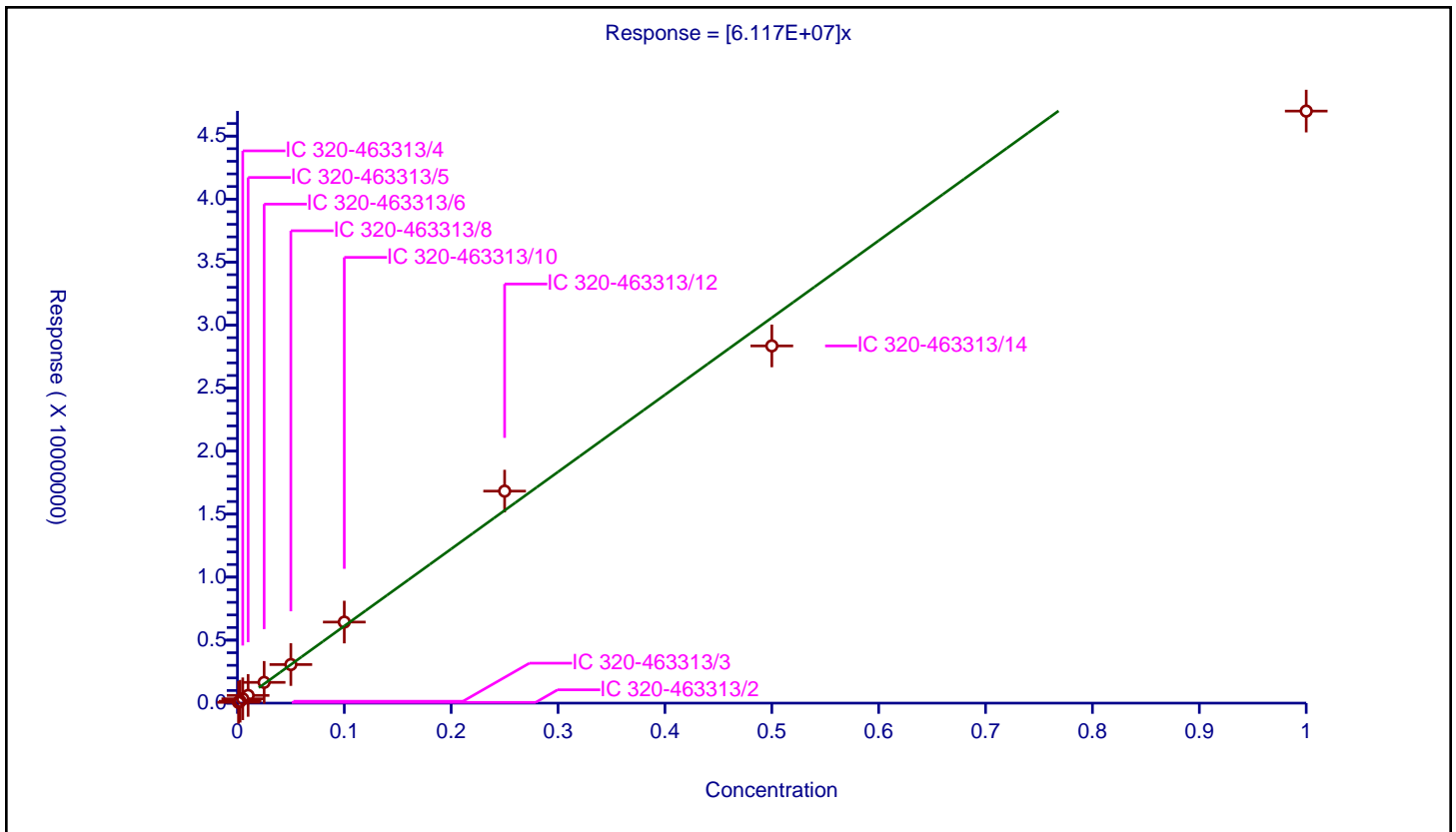
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.117E+07

Error Coefficients	
Standard Error:	4820000
Relative Standard Error:	10.2
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	60077.0			60077000.0	Y
2	IC 320-463313/3	0.0025	148296.0			59318400.0	Y
3	IC 320-463313/4	0.005	343405.0			68681000.0	Y
4	IC 320-463313/5	0.01	612192.0			61219200.0	Y
5	IC 320-463313/6	0.025	1647286.0			65891440.0	Y
6	IC 320-463313/8	0.05	3061439.0			61228780.0	Y
7	IC 320-463313/10	0.1	6432761.0			64327610.0	Y
8	IC 320-463313/12	0.25	16825997.0			67303988.0	Y
9	IC 320-463313/14	0.5	28349592.0			56699184.0	Y
10	IC 320-463313/16	1.0	46984872.0			46984872.0	Y



**Calibration**

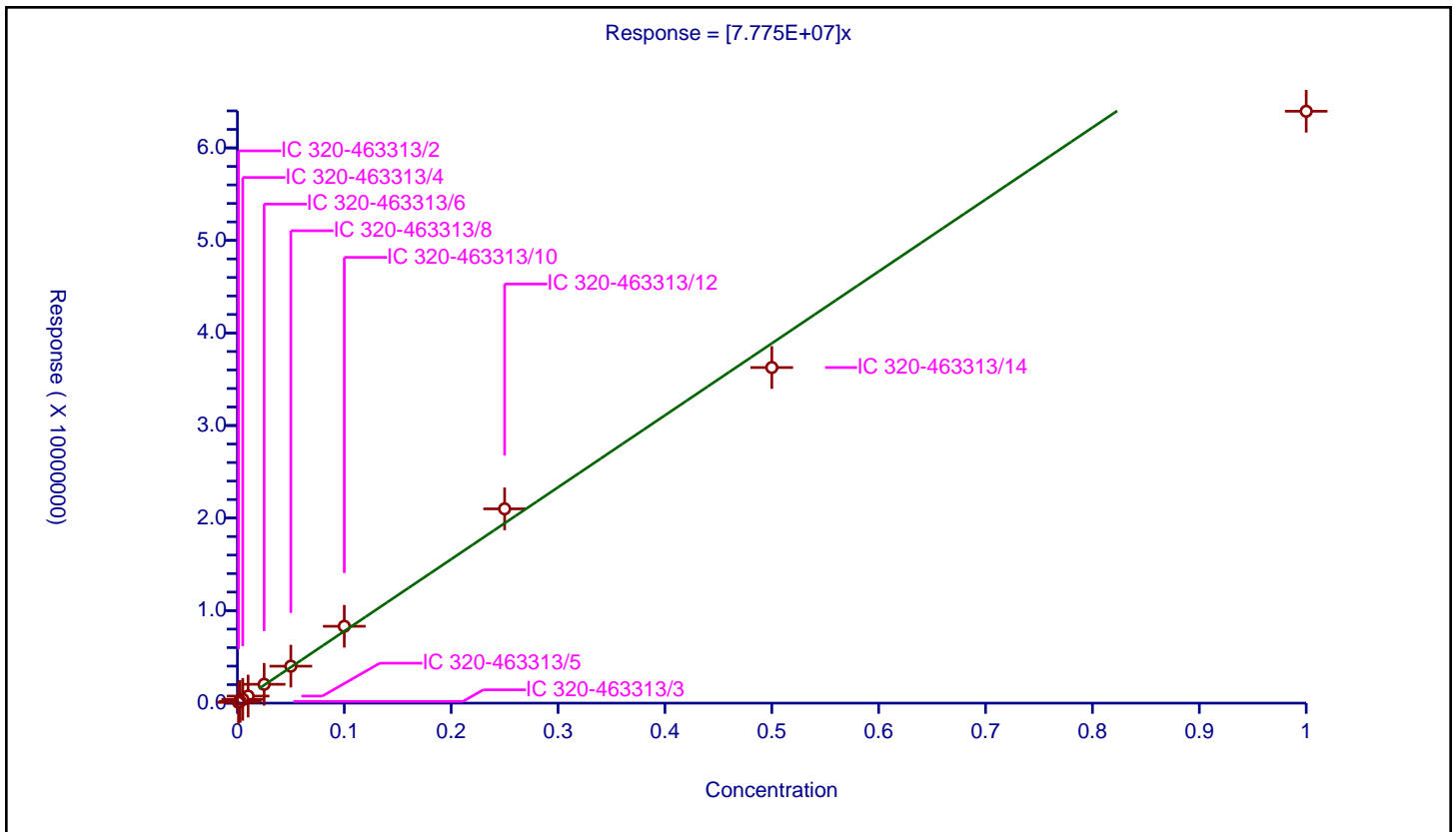
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.775E+07

Error Coefficients	
Standard Error:	4710000
Relative Standard Error:	7.9
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	80440.0			80440000.0	Y
2	IC 320-463313/3	0.0025	186140.0			74456000.0	Y
3	IC 320-463313/4	0.005	407080.0			81416000.0	Y
4	IC 320-463313/5	0.01	763774.0			76377400.0	Y
5	IC 320-463313/6	0.025	2035051.0			81402040.0	Y
6	IC 320-463313/8	0.05	3994406.0			79888120.0	Y
7	IC 320-463313/10	0.1	8305759.0			83057590.0	Y
8	IC 320-463313/12	0.25	20995407.0			83981628.0	Y
9	IC 320-463313/14	0.5	36265587.0			72531174.0	Y
10	IC 320-463313/16	1.0	63961107.0			63961107.0	Y



Calibration

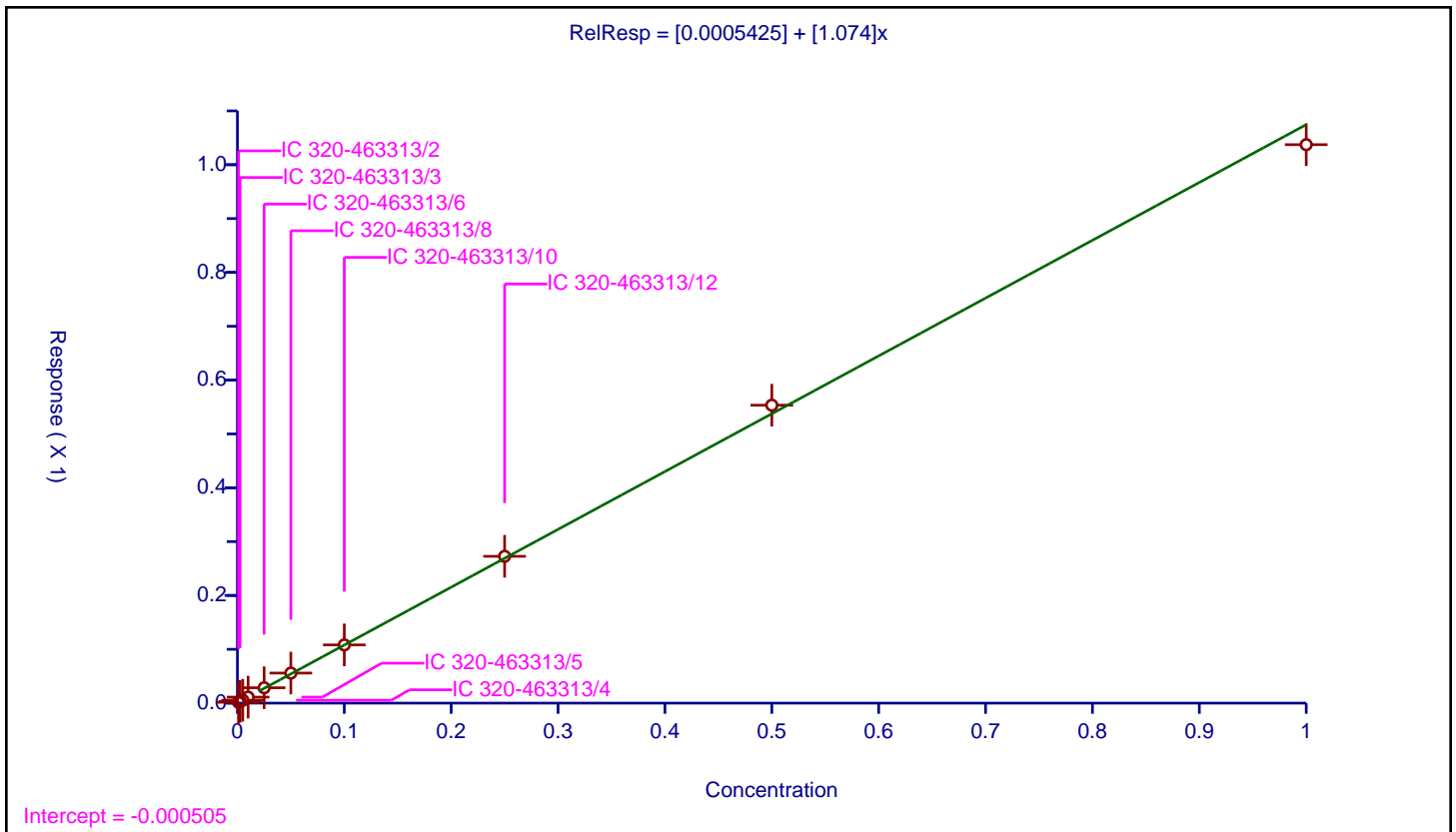
/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0005425
Slope:	1.074

Error Coefficients	
Standard Error:	12500000
Relative Standard Error:	4.4
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-463313/2	0.001	0.00163	0.25	9910951.0	1.629687	Y
2	IC 320-463313/3	0.0025	0.003268	0.25	9118046.0	1.307199	Y
3	IC 320-463313/4	0.005	0.005381	0.25	10248995.0	1.076115	Y
4	IC 320-463313/5	0.01	0.011167	0.25	9258381.0	1.116704	Y
5	IC 320-463313/6	0.025	0.028538	0.25	9421616.0	1.141523	Y
6	IC 320-463313/8	0.05	0.0558	0.25	8936482.0	1.116007	Y
7	IC 320-463313/10	0.1	0.108112	0.25	9299150.0	1.081122	Y
8	IC 320-463313/12	0.25	0.272671	0.25	9305698.0	1.090685	Y
9	IC 320-463313/14	0.5	0.553396	0.25	7767454.0	1.106792	Y
10	IC 320-463313/16	1.0	1.037263	0.25	6957880.0	1.037263	Y





**Calibration**

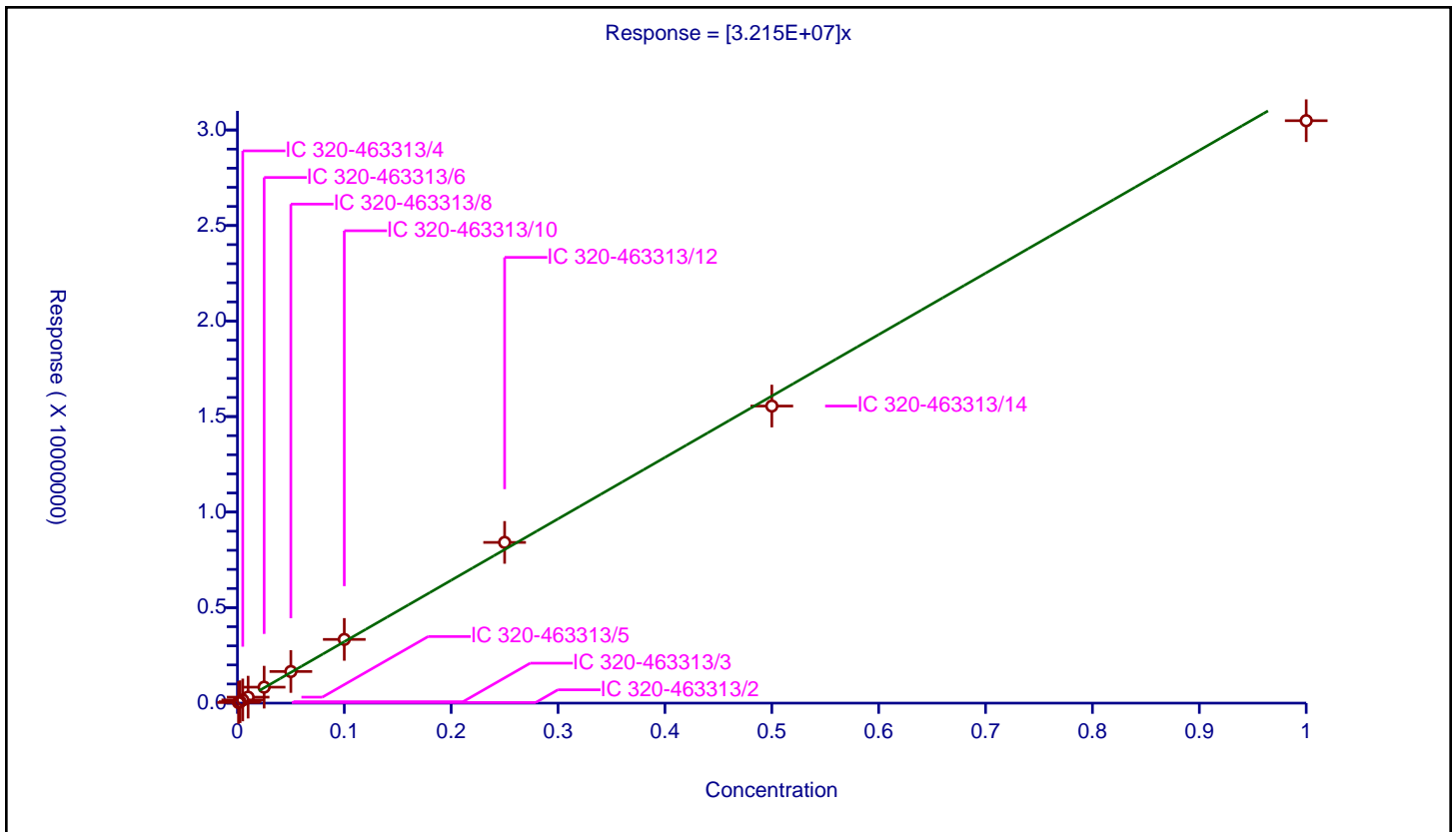
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.215E+07

Error Coefficients	
Standard Error:	596000
Relative Standard Error:	4.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	31905.0			31905000.0	Y
2	IC 320-463313/3	0.0025	74456.0			29782400.0	Y
3	IC 320-463313/4	0.005	166726.0			33345200.0	Y
4	IC 320-463313/5	0.01	313052.0			31305200.0	Y
5	IC 320-463313/6	0.025	836192.0			33447680.0	Y
6	IC 320-463313/8	0.05	1655741.0			33114820.0	Y
7	IC 320-463313/10	0.1	3335830.0			33358300.0	Y
8	IC 320-463313/12	0.25	8412026.0			33648104.0	Y
9	IC 320-463313/14	0.5	15550290.0			31100580.0	Y
10	IC 320-463313/16	1.0	30486271.0			30486271.0	Y



Calibration

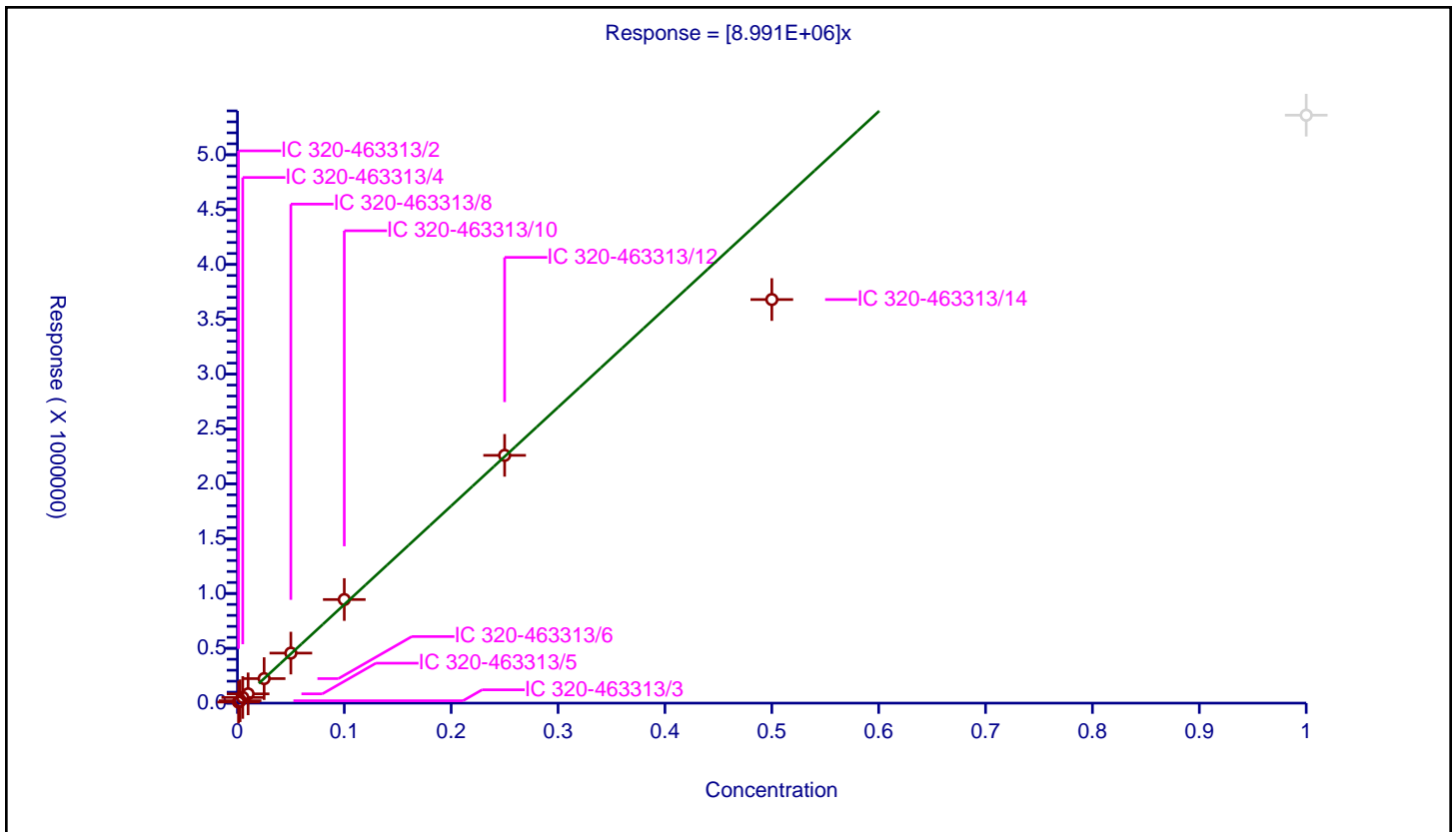
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.991E+06

Error Coefficients	
Standard Error:	289000
Relative Standard Error:	9.0
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	9518.0			9518000.0	Y
2	IC 320-463313/3	0.0025	21791.0			8716400.0	Y
3	IC 320-463313/4	0.005	51544.0			10308800.0	Y
4	IC 320-463313/5	0.01	84693.0			8469300.0	Y
5	IC 320-463313/6	0.025	223534.0			8941360.0	Y
6	IC 320-463313/8	0.05	456211.0			9124220.0	Y
7	IC 320-463313/10	0.1	944470.0			9444700.0	Y
8	IC 320-463313/12	0.25	2259362.0			9037448.0	Y
9	IC 320-463313/14	0.5	3679960.0			7359920.0	Y
10	IC 320-463313/16	1.0	5360778.0			5360778.0	N



Calibration

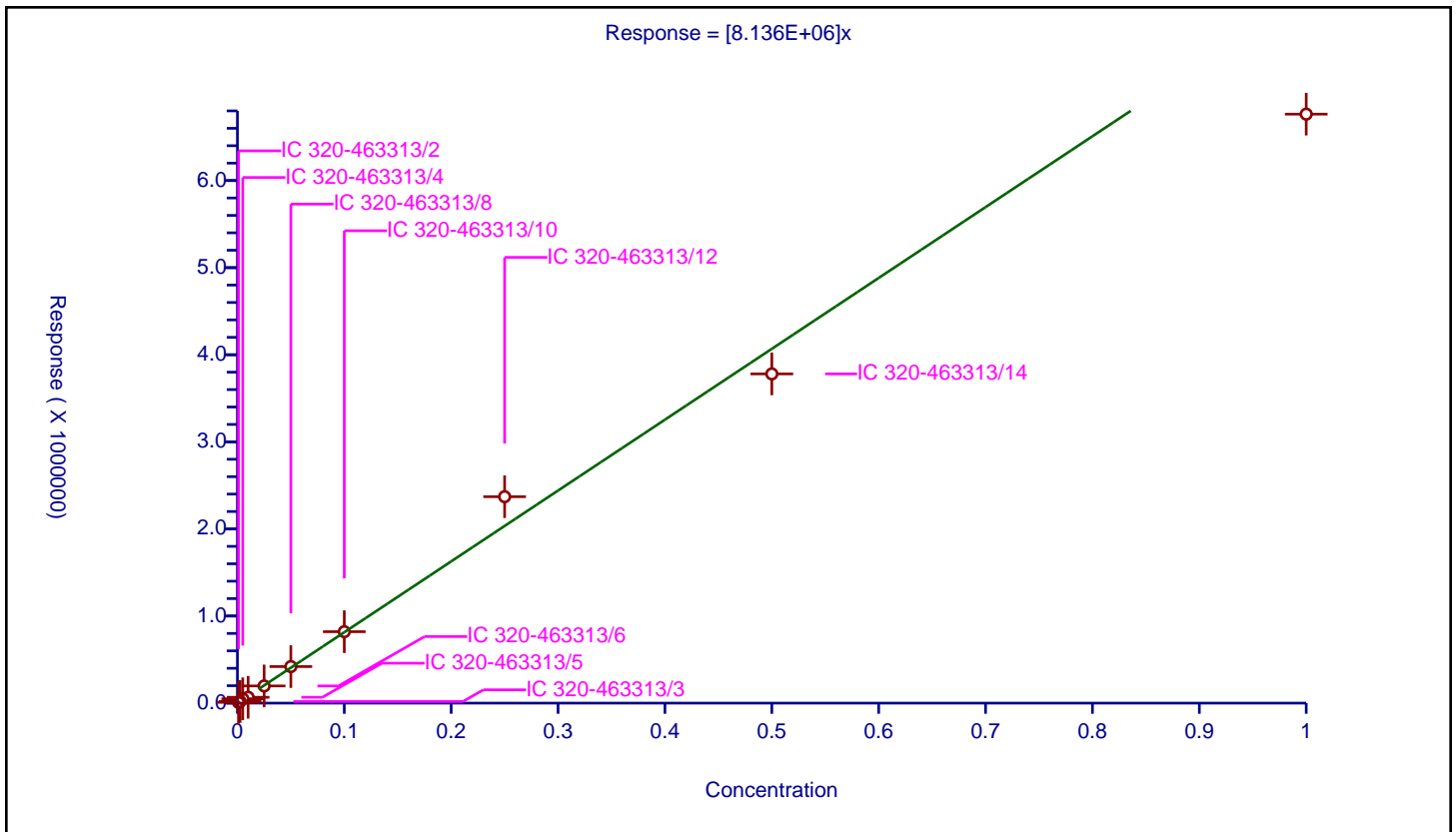
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.136E+06

Error Coefficients	
Standard Error:	481000
Relative Standard Error:	13.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.978

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	8976.0			8976000.0	Y
2	IC 320-463313/3	0.0025	18658.0			7463200.0	Y
3	IC 320-463313/4	0.005	49623.0			9924600.0	Y
4	IC 320-463313/5	0.01	66987.0			6698700.0	Y
5	IC 320-463313/6	0.025	197362.0			7894480.0	Y
6	IC 320-463313/8	0.05	419790.0			8395800.0	Y
7	IC 320-463313/10	0.1	820239.0			8202390.0	Y
8	IC 320-463313/12	0.25	2370140.0			9480560.0	Y
9	IC 320-463313/14	0.5	3780322.0			7560644.0	Y
10	IC 320-463313/16	1.0	6762788.0			6762788.0	Y



**Calibration**

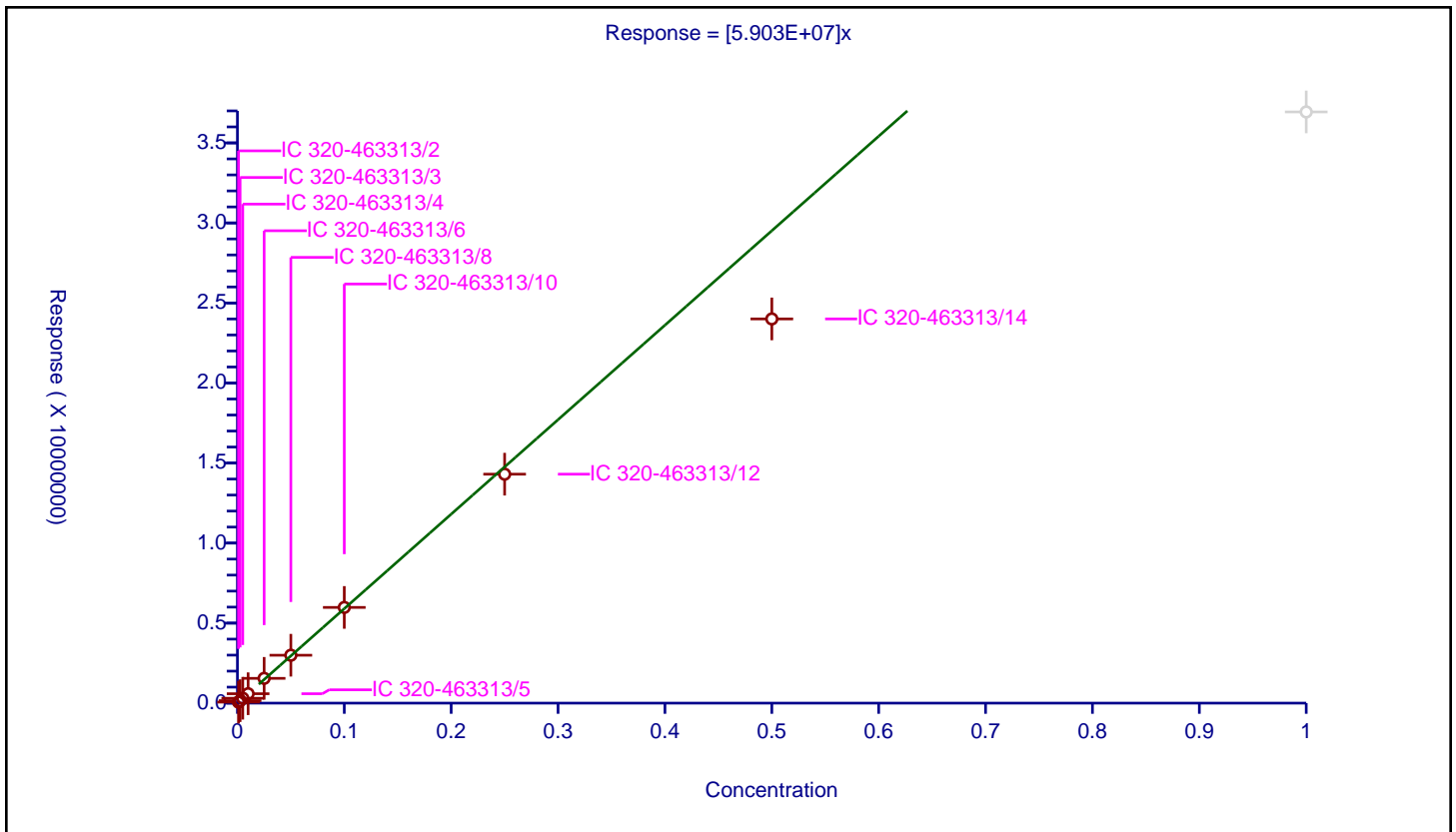
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	5.903E+07

Error Coefficients	
<b>Standard Error:</b>	1960000
<b>Relative Standard Error:</b>	7.6
<b>Correlation Coefficient:</b>	0.992
<b>Coefficient of Determination (Adjusted):</b>	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	63043.0			63043000.0	Y
2	IC 320-463313/3	0.0025	153625.0			61450000.0	Y
3	IC 320-463313/4	0.005	306126.0			61225200.0	Y
4	IC 320-463313/5	0.01	587595.0			58759500.0	Y
5	IC 320-463313/6	0.025	1548128.0			61925120.0	Y
6	IC 320-463313/8	0.05	2992683.0			59853660.0	Y
7	IC 320-463313/10	0.1	5978874.0			59788740.0	Y
8	IC 320-463313/12	0.25	14303333.0			57213332.0	Y
9	IC 320-463313/14	0.5	24002268.0			48004536.0	Y
10	IC 320-463313/16	1.0	36935662.0			36935662.0	N



**Calibration**

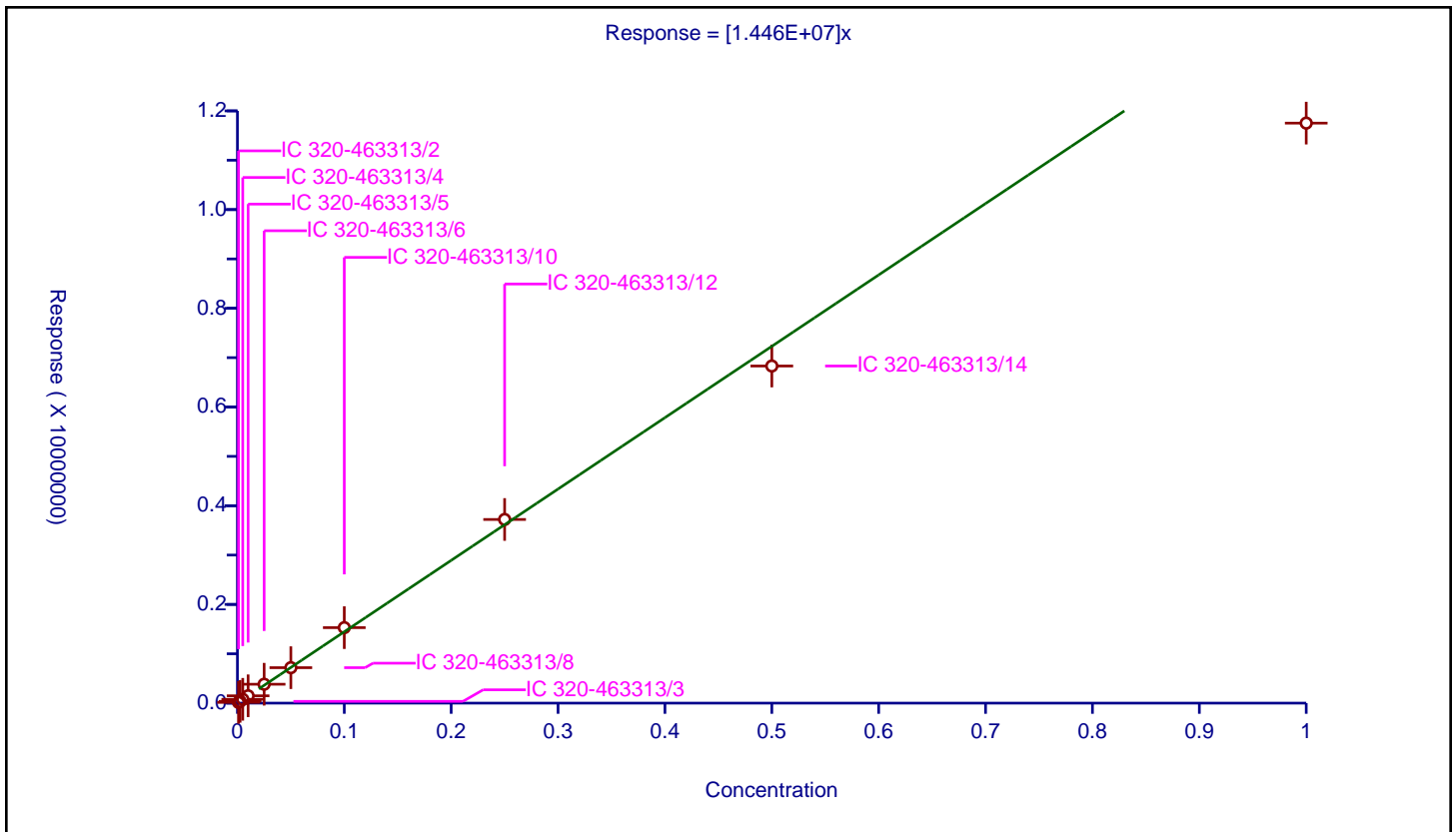
**/ PS Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.446E+07

Error Coefficients	
Standard Error:	914000
Relative Standard Error:	7.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	14651.0			14651000.0	Y
2	IC 320-463313/3	0.0025	35883.0			14353200.0	Y
3	IC 320-463313/4	0.005	77215.0			15443000.0	Y
4	IC 320-463313/5	0.01	148679.0			14867900.0	Y
5	IC 320-463313/6	0.025	383127.0			15325080.0	Y
6	IC 320-463313/8	0.05	718480.0			14369600.0	Y
7	IC 320-463313/10	0.1	1529565.0			15295650.0	Y
8	IC 320-463313/12	0.25	3721290.0			14885160.0	Y
9	IC 320-463313/14	0.5	6830495.0			13660990.0	Y
10	IC 320-463313/16	1.0	11752345.0			11752345.0	Y



Calibration

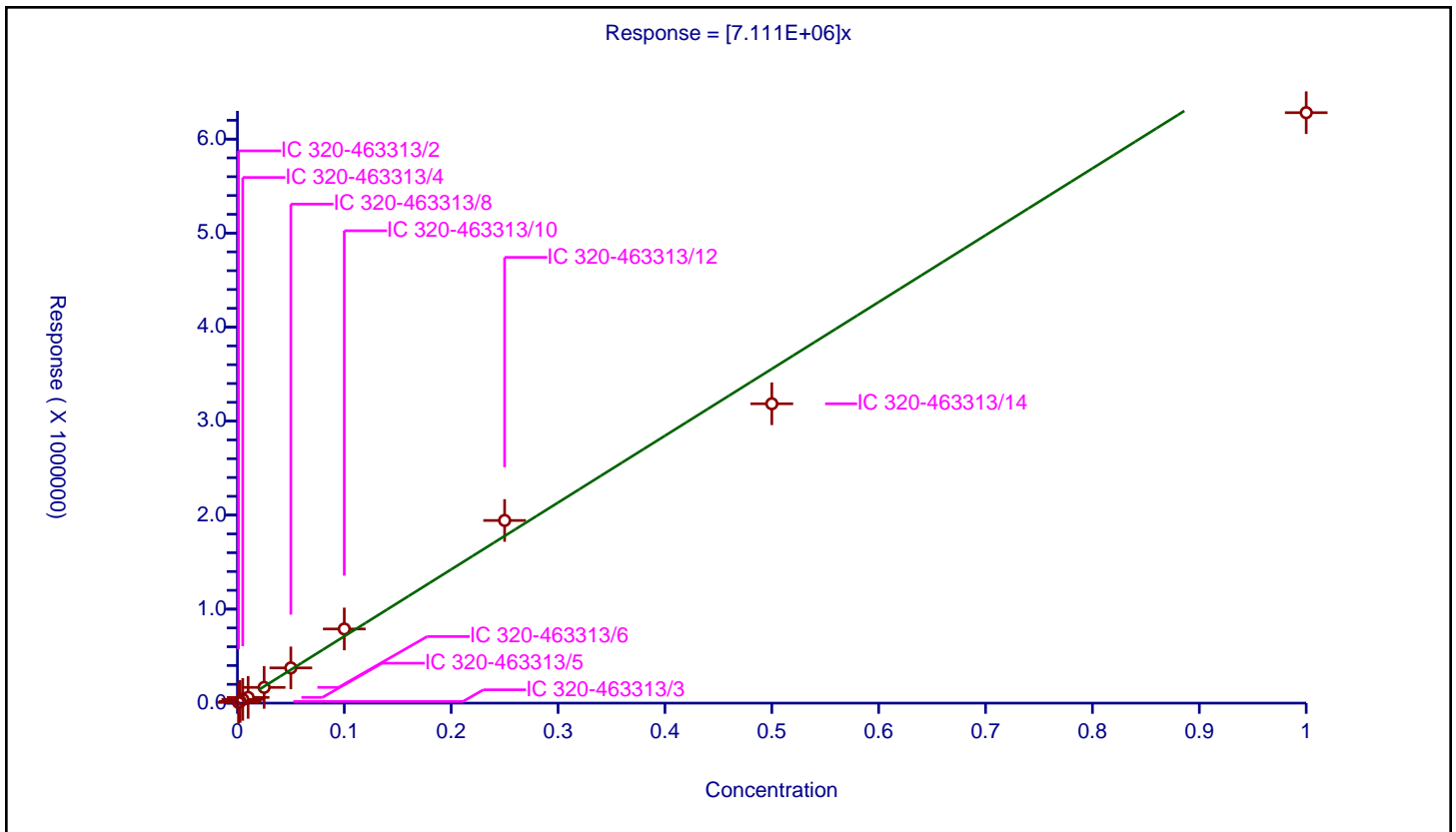
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.111E+06

Error Coefficients	
Standard Error:	309000
Relative Standard Error:	9.9
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463313/2	0.001	7548.0			7548000.0	Y
2	IC 320-463313/3	0.0025	17704.0			7081600.0	Y
3	IC 320-463313/4	0.005	39512.0			7902400.0	Y
4	IC 320-463313/5	0.01	60760.0			6076000.0	Y
5	IC 320-463313/6	0.025	167324.0			6692960.0	Y
6	IC 320-463313/8	0.05	374629.0			7492580.0	Y
7	IC 320-463313/10	0.1	788930.0			7889300.0	Y
8	IC 320-463313/12	0.25	1943108.0			7772432.0	Y
9	IC 320-463313/14	0.5	3184704.0			6369408.0	Y
10	IC 320-463313/16	1.0	6280911.0			6280911.0	Y



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-459394/15 Calibration Date: 02/06/2021 16:30  
 Instrument ID: A12 Calib Start Date: 02/06/2021 12:42  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/06/2021 15:55  
 Lab File ID: 2020.02.06\_A12\_TB3\_ICAL\_017.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	15632190	14725190		94.2	100	-5.8	30.0
R-EVE	Ave	7448463	7333970		98.5	100	-1.5	50.0
R-PSDA	Ave	4007457	4187070		104	100	4.5	50.0
Hydrolyzed PSDA	Ave	13072136	13268640		102	100	1.5	50.0
PMPA	Ave	24496533	19606890		80.0	100	-20.0	30.0
NVHOS	Ave	9450723	7899620		83.6	100	-16.4	30.0
PFO2HxA	Ave	18510573	17459370		94.3	100	-5.7	30.0
PEPA	Ave	9392592	8823630		93.9	100	-6.1	30.0
PES	Ave	36231744	34571990		95.4	100	-4.6	30.0
PFECA B	Ave	14888661	14606700		98.1	100	-1.9	30.0
PFO3OA	Ave	7414312	6816040		91.9	100	-8.1	30.0
HFPO-DA	AveID	1.144	1.028		89.9	100	-10.1	40.0
R-PSDCA	Ave	78126851	68877380		88.2	100	-11.8	30.0
Hydro-EVE Acid	Ave	99570804	93441450		93.8	100	-6.2	30.0
Hydro-PS Acid	Ave	35965062	36328700		101	100	1.0	30.0
Perfluoroheptanoic acid	AveID	1.158	1.040		89.9	100	-10.1	40.0
PFECA G	Ave	10785671	10531080		97.6	100	-2.4	30.0
PFO4DA	Ave	9253081	8963700		96.9	100	-3.1	30.0
PS Acid	Ave	15784355	15182070		96.2	100	-3.8	30.0
EVE Acid	Ave	66145965	63387860		95.8	100	-4.2	30.0
PFO5DA	Ave	7500982	7213850		96.2	100	-3.8	50.0
13C3 HFPO-DA	Ave	8406413	8636992		257	250	2.7	50.0
13C4 PFHpA	Ave	43338705	42493228		245	250	-2.0	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_017.d  
 Lims ID: ICV (46)  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 06-Feb-2021 16:30:35 ALS Bottle#: 17 Worklist Smp#: 15  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (46)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 07-Feb-2021 14:09:40 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1678

First Level Reviewer: contrerese Date: 07-Feb-2021 13:46:08

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.279	4.309	-0.030		1472519	0.0942		260		M
2 R-EVE										M
405.00 > 217.00	6.427	6.466	-0.039		733397	0.0985		1492		M
3 R-PSDA										M
440.90 > 241.00	6.486	6.526	-0.040		418707	0.1045		1913		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.566	6.590	-0.024		1326864	0.1015		2002		M
23 PMPA										M
229.00 > 185.00	6.779	6.803	-0.024		1960689	0.0800		732		M
5 NVHOS										M
297.00 > 135.00	7.158	7.182	-0.024		789962	0.0836		2558		M
6 PFO2HxA										M
245.00 > 85.00	7.737	7.768	-0.031		1745937	0.0943		10087		M
22 PEPA										M
278.90 > 234.90	8.295	8.330	-0.035		882363	0.0939		2998		M
7 PES										M
314.90 > 135.00	8.555	8.622	-0.067		3457199	0.0954		64529		M
8 PFECA B										M
295.00 > 201.00	8.797	8.827	-0.030		1460670	0.0981		29380		M
9 PFO3OA										M
310.90 > 85.00	9.045	9.074	-0.029		681604	0.0919		11234		M
11 HPFO-DA										M
285.00 > 169.00	9.130	9.187	-0.057	1.000	887883	0.0899		25052		M
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.187	-0.057		2159248	0.2569		103 61408		M



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.555	-0.065		6887738	0.0882			107215	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.587	-0.032		10623307	0.2451		98.0	120280	
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.587	-0.064		9344145	0.0938			72738	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.587	-0.032	1.000	4420953	0.0899	Target=0.00		12546	
363.00 > 169.00	9.555	9.587	-0.032	1.000	1301272		3.40(0.00-0.00)		17202	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.616	-0.061		3632870	0.1010			61062	
17 PFECA G										
378.90 > 184.90	9.674	9.731	-0.057		1053108	0.0976			29678	
18 PFO4DA										
376.90 > 85.00	9.817	9.874	-0.057		896370	0.0969			15430	
19 PS Acid										
443.00 > 146.90	9.874	9.932	-0.058		1518207	0.0962			32311	
20 EVE Acid										
407.00 > 262.90	9.903	9.932	-0.029		6338786	0.0958			135283	
21 TAF										
442.90 > 85.00	10.399	10.449	-0.050		721385	0.0962			2358	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00046

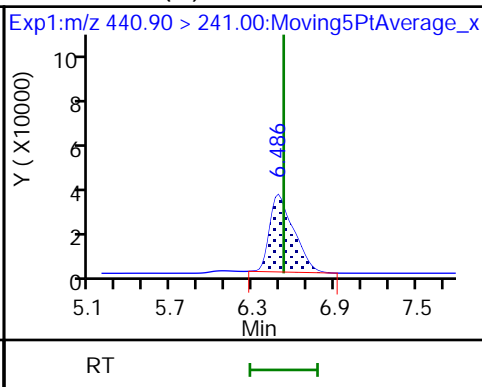
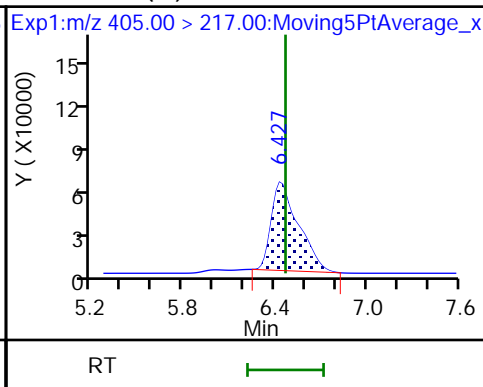
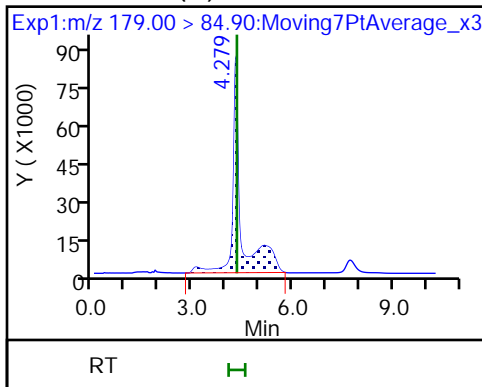
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

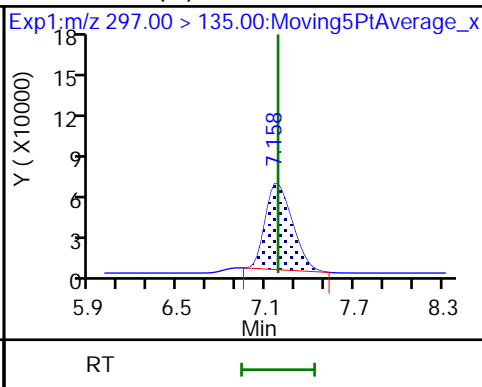
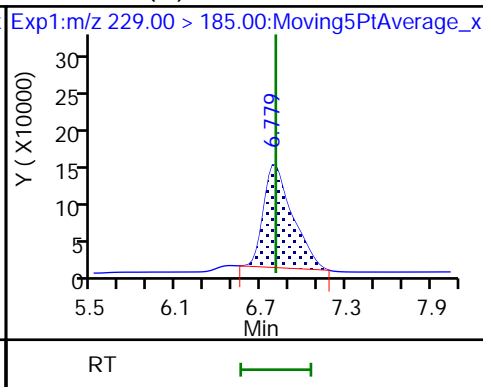
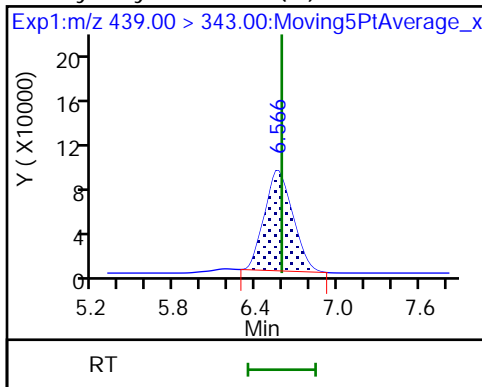
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA (M)

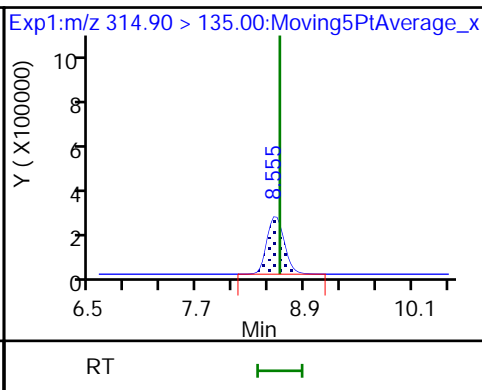
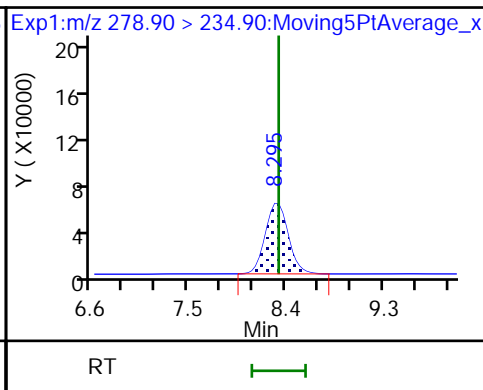
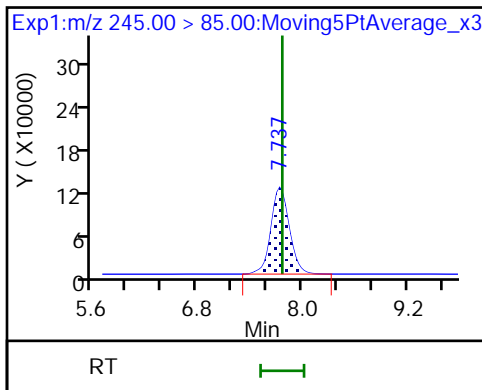
5 NVHOS (M)



6 PFO2HxA

22 PEPA

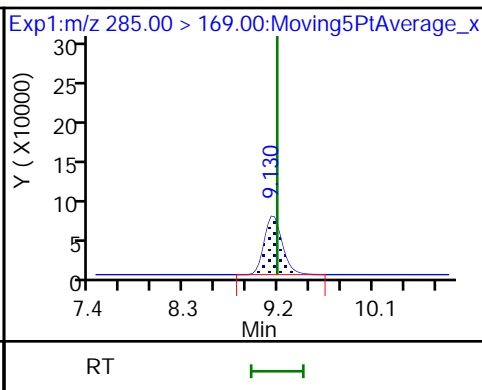
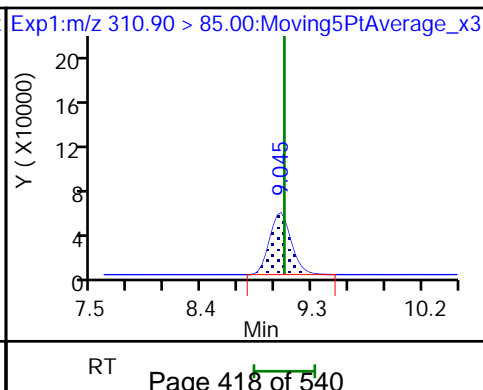
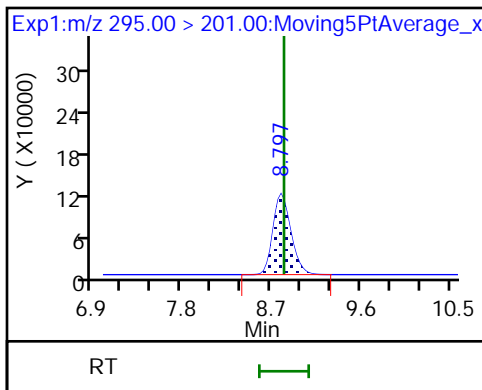
7 PES



8 PFECA B

9 PFO3OA

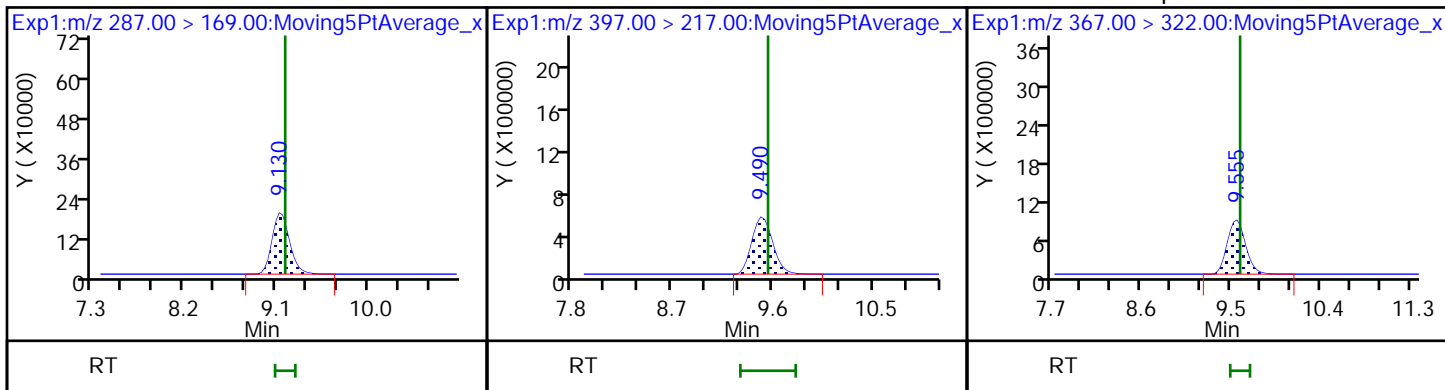
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

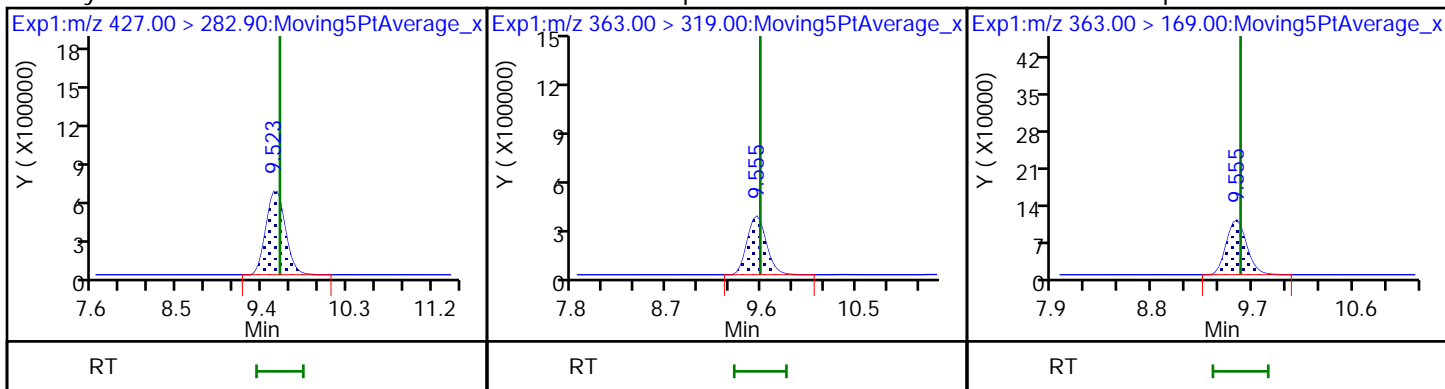
D 14 13C4 PFHpA



13 Hydro-EVE Acid

16 Perfluoroheptanoic acid

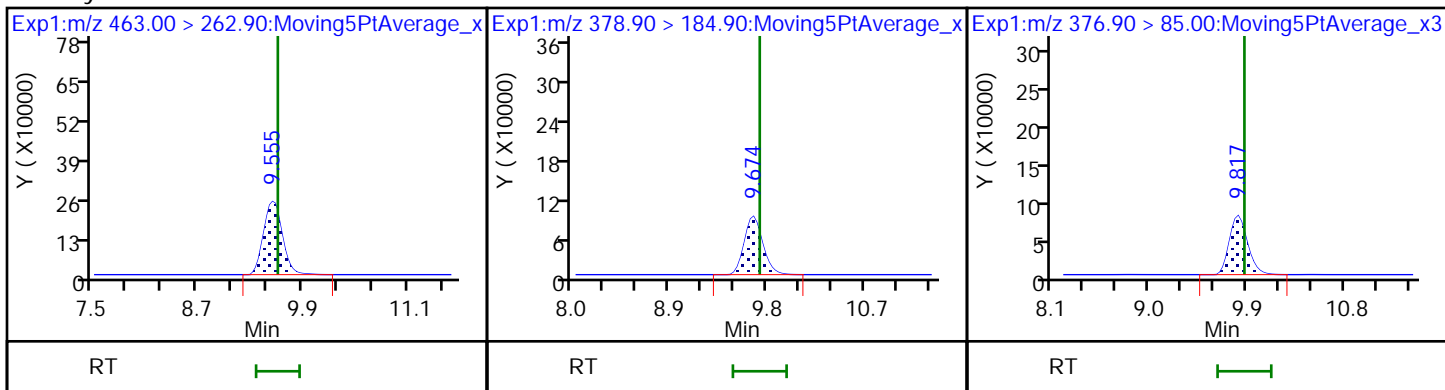
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

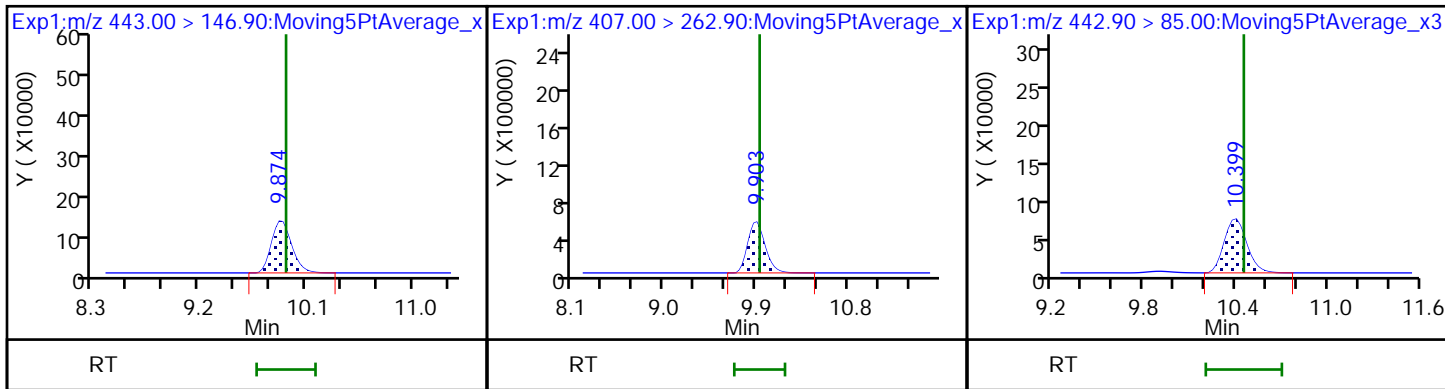
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

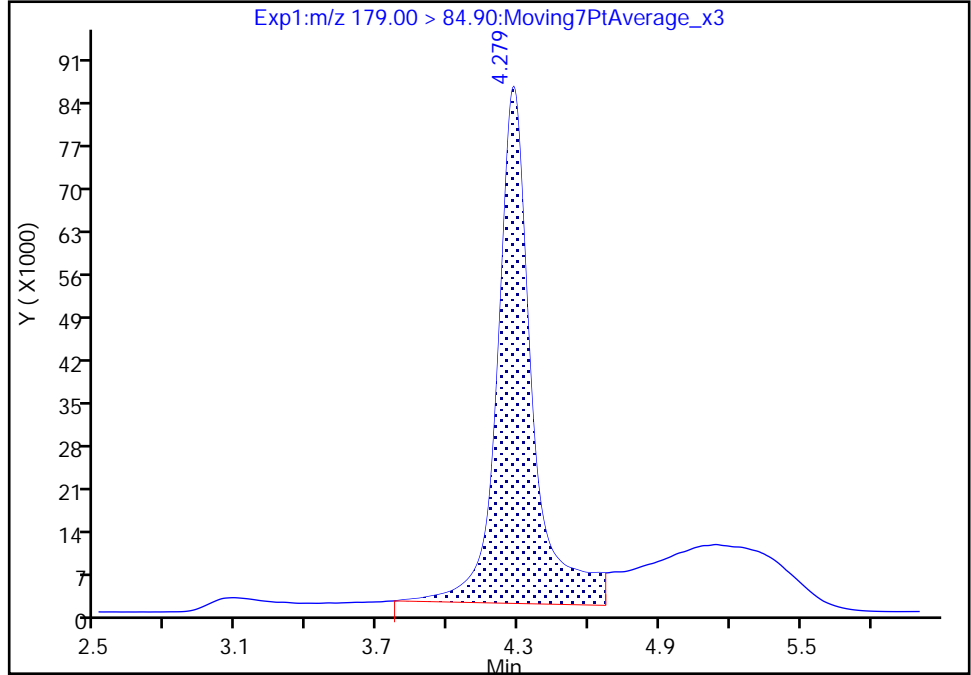
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Injection Date: 06-Feb-2021 16:30:35 Instrument ID: A12  
Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

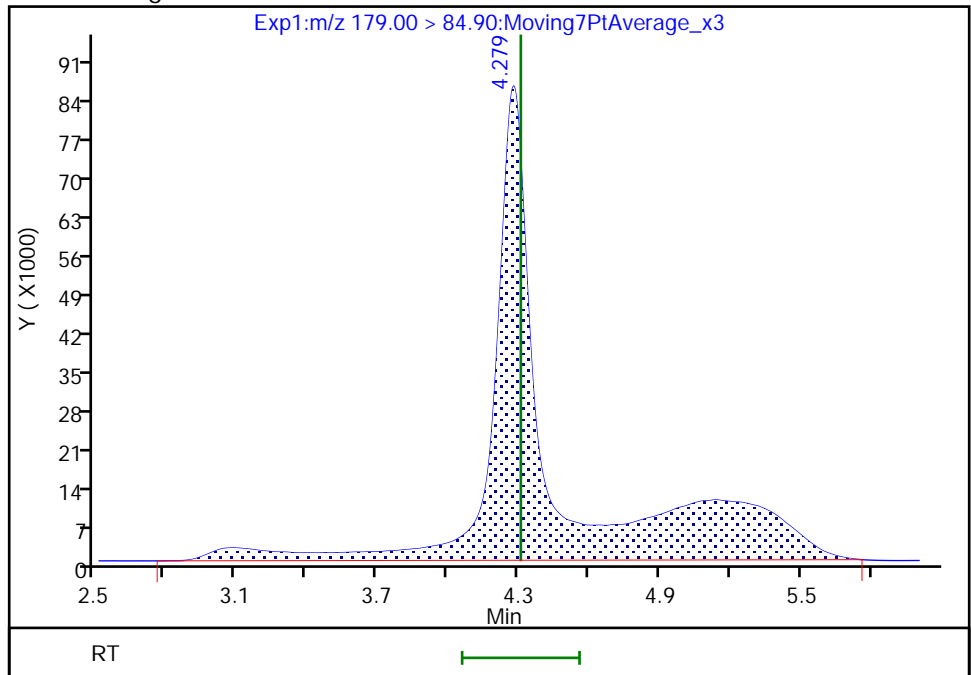
RT: 4.28  
Area: 862788  
Amount: 0.055193  
Amount Units: ng/ml

Processing Integration Results



RT: 4.28  
Area: 1472519  
Amount: 0.094198  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:58:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

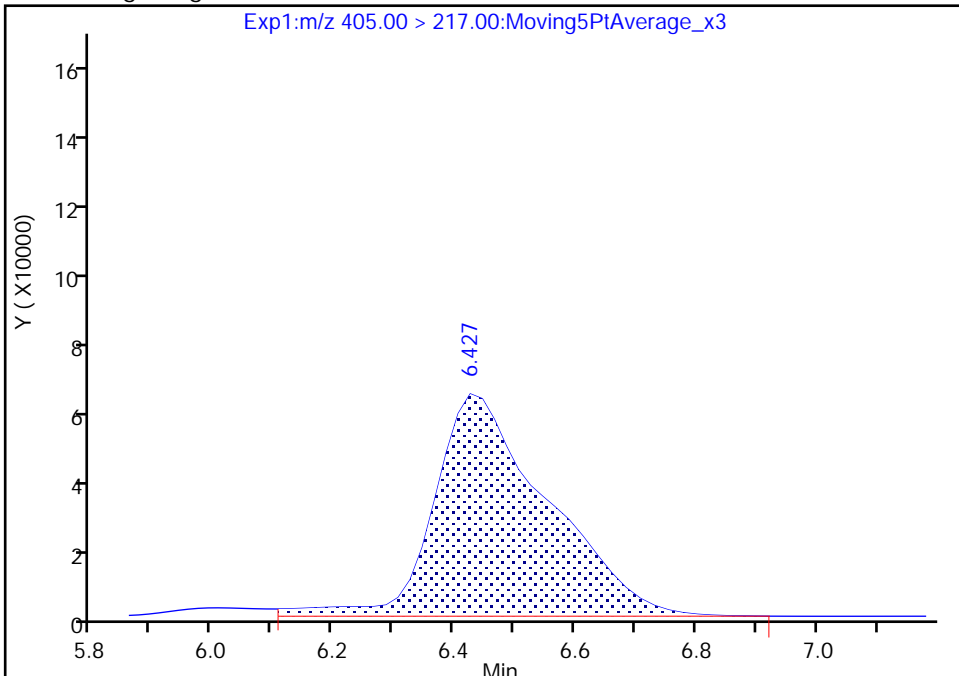
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Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

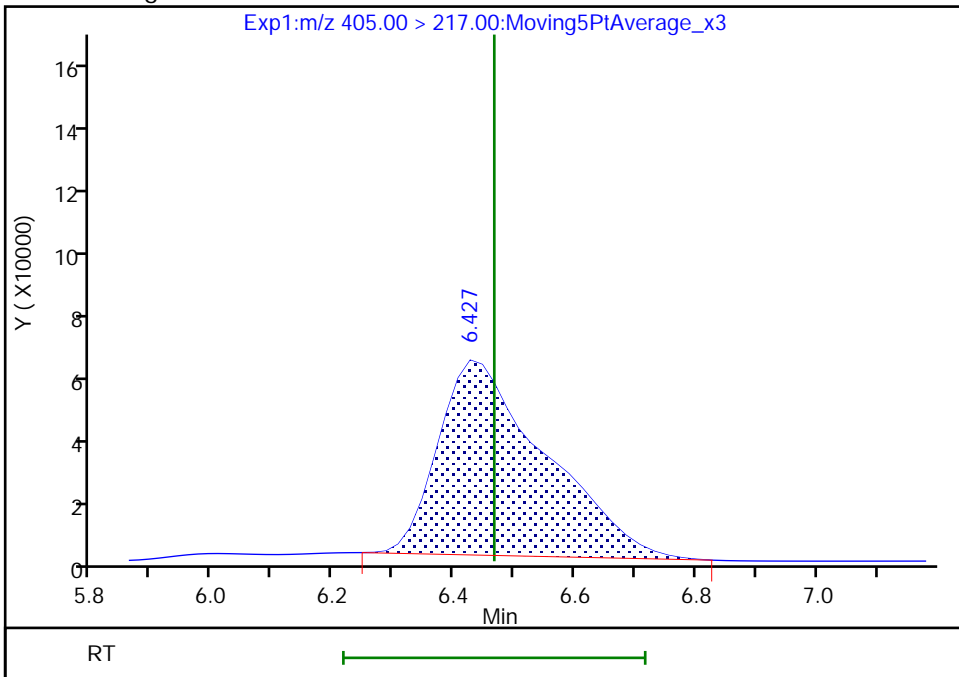
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Area: 803477  
Amount: 0.099956  
Amount Units: ng/ml

Processing Integration Results



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Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

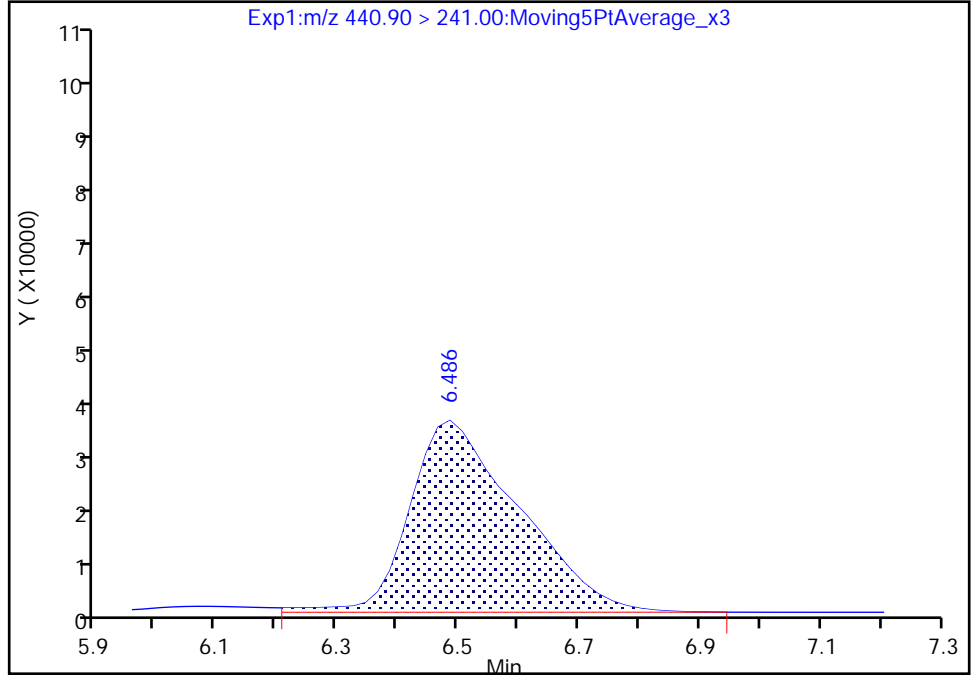
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Injection Date: 06-Feb-2021 16:30:35 Instrument ID: A12  
Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

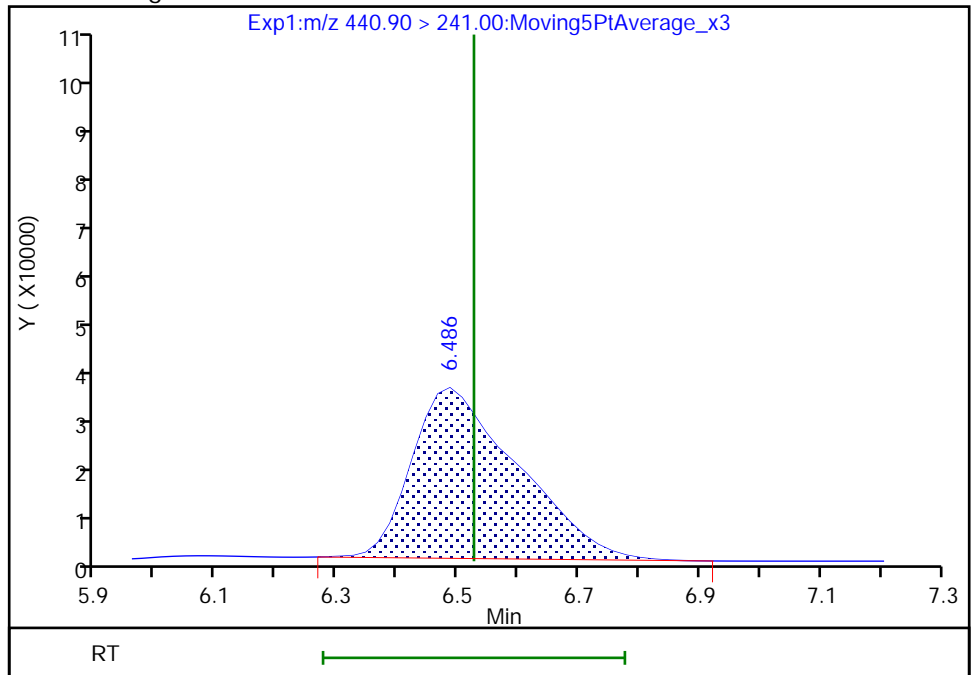
RT: 6.49  
Area: 438250  
Amount: 0.100632  
Amount Units: ng/ml

Processing Integration Results



RT: 6.49  
Area: 418707  
Amount: 0.104482  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

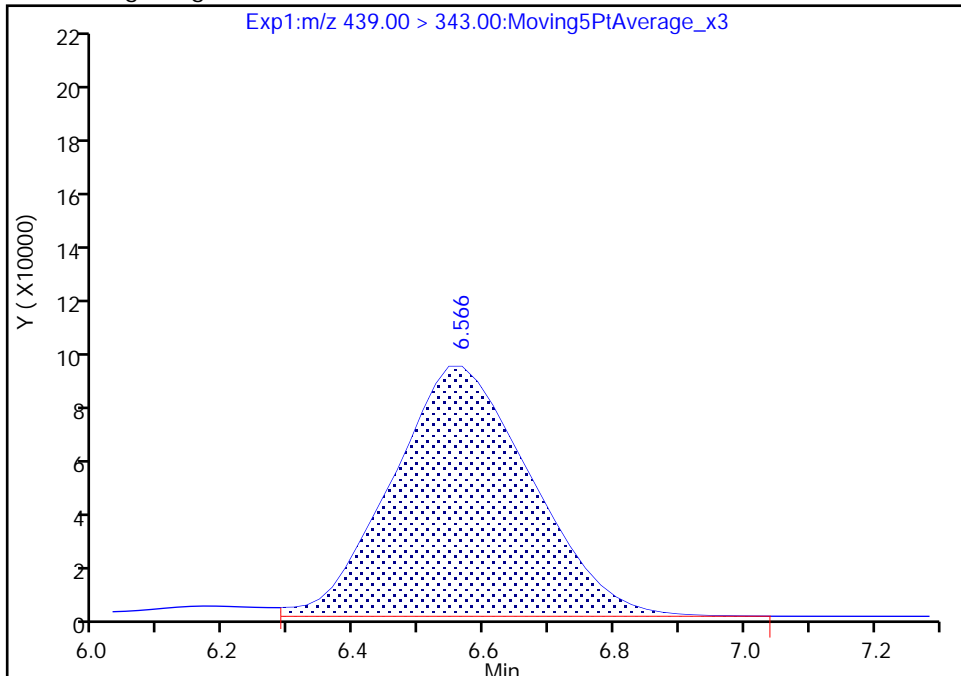
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Injection Date: 06-Feb-2021 16:30:35 Instrument ID: A12  
Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

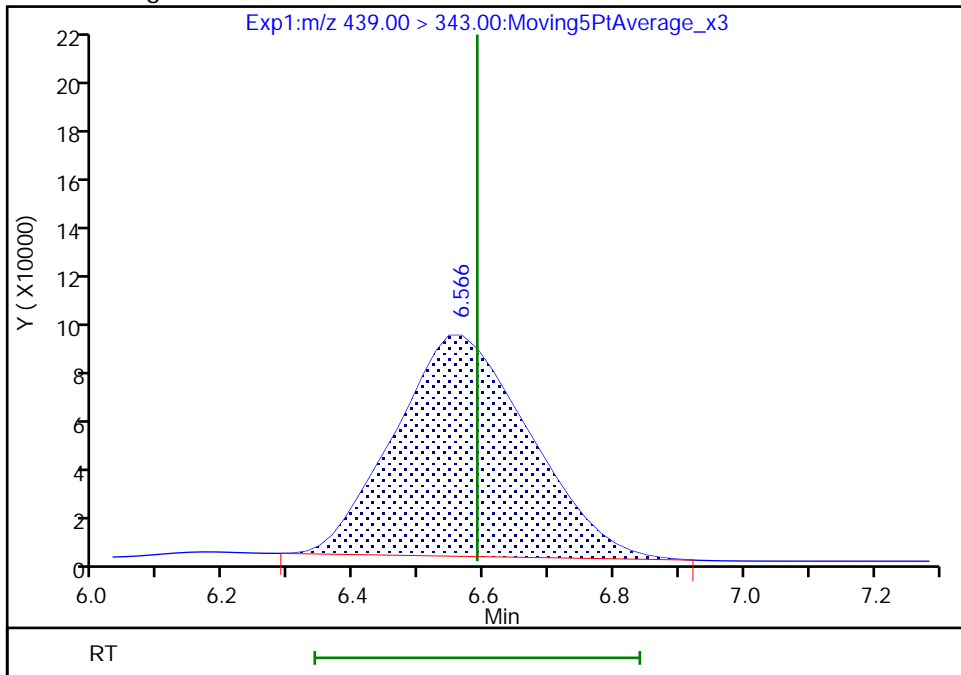
RT: 6.57  
Area: 1397828  
Amount: 0.102485  
Amount Units: ng/ml

Processing Integration Results



RT: 6.57  
Area: 1326864  
Amount: 0.101503  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 07-Feb-2021 11:59:13  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

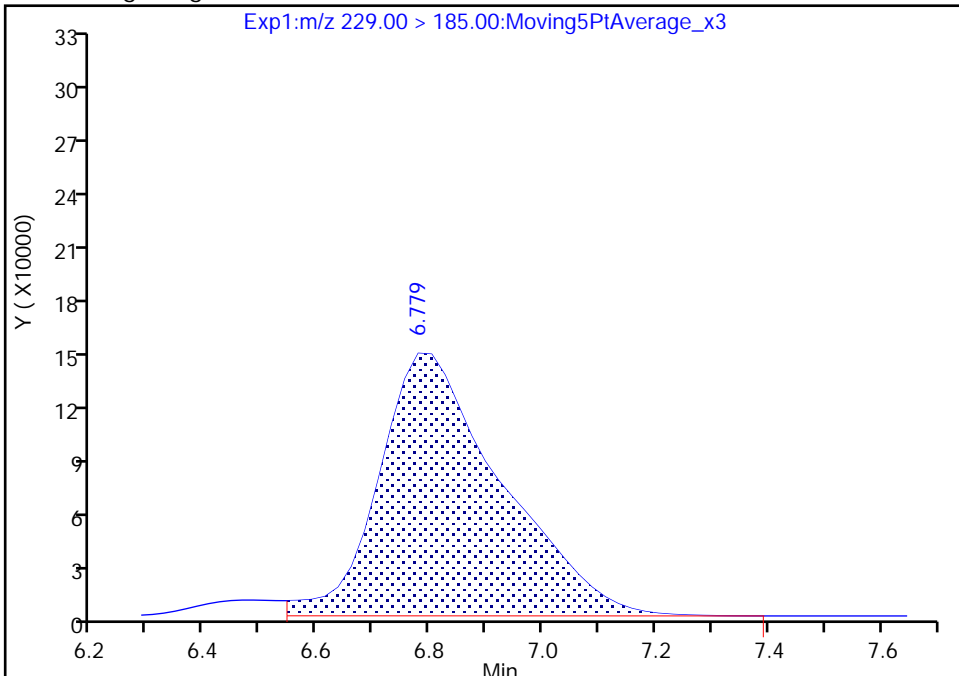
Data File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_017.d  
Injection Date: 06-Feb-2021 16:30:35 Instrument ID: A12  
Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

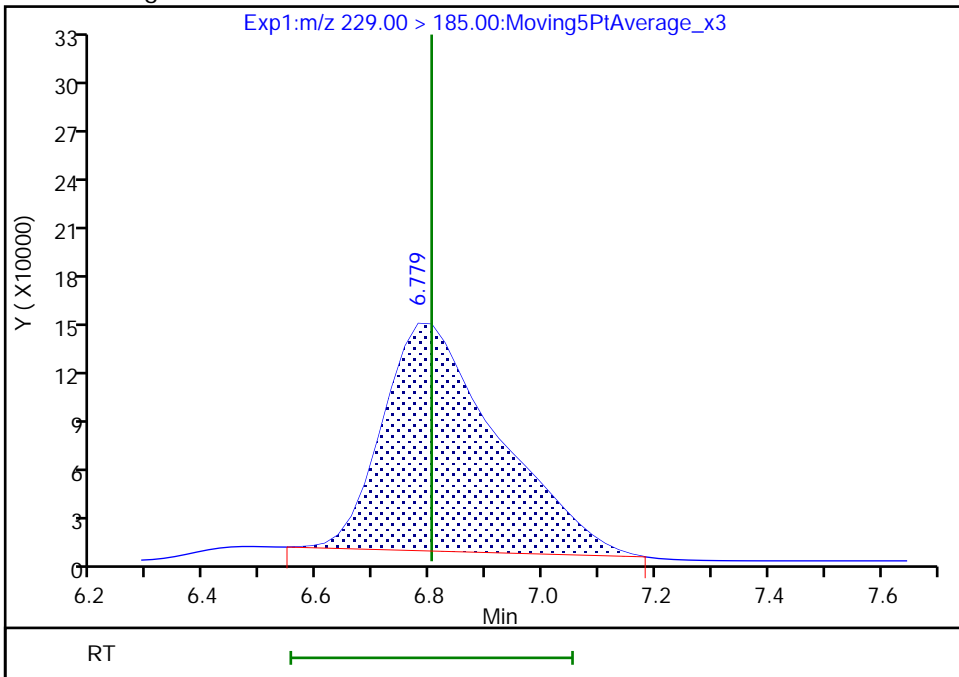
RT: 6.78  
Area: 2170639  
Amount: 0.081729  
Amount Units: ng/ml

Processing Integration Results



RT: 6.78  
Area: 1960689  
Amount: 0.080039  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

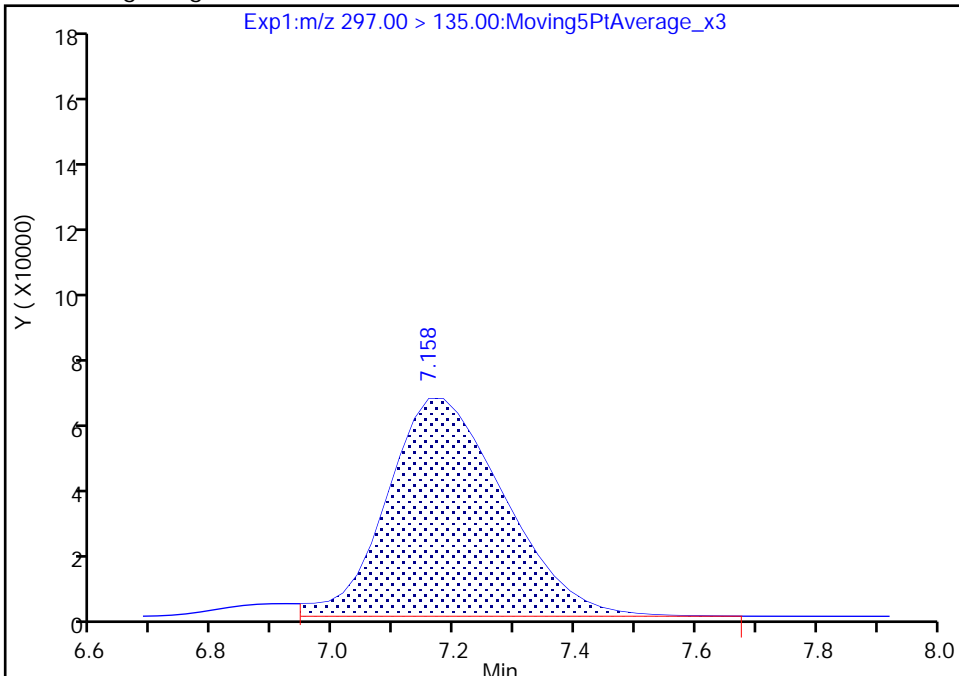
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Injection Date: 06-Feb-2021 16:30:35 Instrument ID: A12  
Lims ID: ICV (46)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 17 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

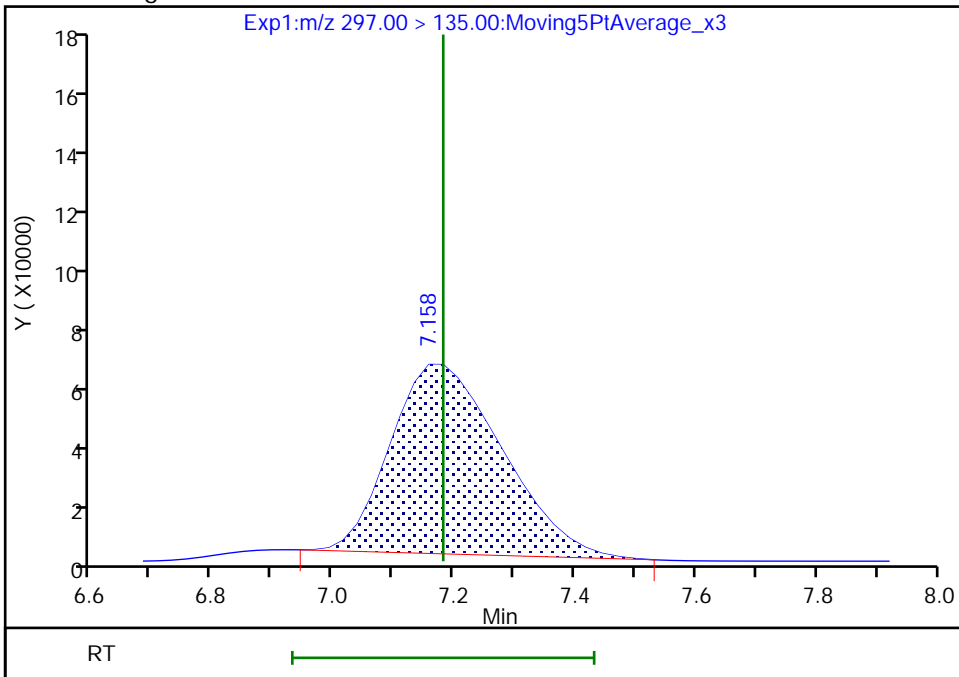
RT: 7.16  
Area: 863017  
Amount: 0.091318  
Amount Units: ng/ml

Processing Integration Results



RT: 7.16  
Area: 789962  
Amount: 0.083587  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-461727/1 Calibration Date: 02/13/2021 09:37  
 Instrument ID: A12 Calib Start Date: 02/06/2021 12:42  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/06/2021 15:55  
 Lab File ID: 2021.02.13\_A12\_TB3\_A\_012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	15632190	13881920		88.8	100	-11.2	30.0
R-EVE	Ave	7448463	7300160		98.0	100	-2.0	50.0
R-PSDA	Ave	4007457	3164350		79.0	100	-21.0	50.0
Hydrolyzed PSDA	Ave	13072136	10146150		77.6	100	-22.4	50.0
PMPA	Ave	24496533	22158320		90.5	100	-9.5	30.0
NVHOS	Ave	9450723	8265040		87.5	100	-12.5	30.0
PFO2HxA	Ave	18510573	17289760		93.4	100	-6.6	30.0
PEPA	Ave	9392592	8137990		86.6	100	-13.4	30.0
PES	Ave	36231744	33404790		92.2	100	-7.8	30.0
PFECA B	Ave	14888661	13017370		87.4	100	-12.6	30.0
PFO3OA	Ave	7414312	6812050		91.9	100	-8.1	30.0
HFPO-DA	AveID	1.144	1.084		94.8	100	-5.2	40.0
R-PSDCA	Ave	78126851	83810700		107	100	7.3	30.0
Hydro-EVE Acid	Ave	99570804	101481870		102	100	1.9	30.0
Perfluoroheptanoic acid	AveID	1.158	1.088		94.0	100	-6.0	40.0
Hydro-PS Acid	Ave	35965062	31216530		86.8	100	-13.2	30.0
PFECA G	Ave	10785671	10535220		97.7	100	-2.3	30.0
PFO4DA	Ave	9253081	10271050		111	100	11.0	30.0
EVE Acid	Ave	66145965	64301170		97.2	100	-2.8	30.0
PS Acid	Ave	15784355	14570740		92.3	100	-7.7	30.0
PFO5DA	Ave	7500982	7461200		99.5	100	-0.5	50.0
13C3 HFPO-DA	Ave	8406413	7858536		234	250	-6.5	50.0
13C4 PFHpA	Ave	43338705	48491784		280	250	11.9	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_012.d  
 Lims ID: CCV L7  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Feb-2021 09:37:31 ALS Bottle#: 12 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (402)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 12:08:27 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 12:08:27

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.694	4.129	-0.435		1388192	0.0888		88.8	86.2	M
2 R-EVE										M
405.00 > 217.00	6.446	6.486	-0.040		730016	0.0980		98.0	8142	M
3 R-PSDA										M
440.90 > 241.00	6.506	6.546	-0.040		316435	0.0790		79.0	3472	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.566	6.613	-0.047		1014615	0.0776		77.6	14977	
23 PMPA										
229.00 > 185.00	6.779	6.827	-0.048		2215832	0.0905		90.5	1244	
5 NVHOS										
297.00 > 135.00	7.205	7.232	-0.027		826504	0.0875		87.5	12572	
6 PFO2HxA										
245.00 > 85.00	7.798	7.799	0.0		1728976	0.0934		93.4	16018	
22 PEPA										
278.90 > 234.90	8.399	8.399	0.0		813799	0.0866		86.6	1757	
7 PES										
314.90 > 135.00	8.653	8.650	0.003		3340479	0.0922		92.2	83694	
8 PFECA B										
295.00 > 201.00	8.890	8.860	0.030		1301737	0.0874		87.4	24946	
9 PFO3OA										
310.90 > 85.00	9.130	9.103	0.027		681205	0.0919		91.9	8084	
11 HPFO-DA										
285.00 > 169.00	9.215	9.216	-0.001	1.000	851912	0.0948		94.8	23611	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.215	9.216	-0.001		1964634	0.2337		93.5	54889	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.587	9.556	0.031		8381070	0.1073		107	168677	
13 Hydro-EVE Acid										
427.00 > 282.90	9.616	9.617	-0.001		10148187	0.1019		102	90844	
D 14 13C4 PFHpA										
367.00 > 322.00	9.616	9.617	-0.001		12122946	0.2797		112	197568	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.616	9.617	-0.001	1.000	5278295	0.0940	Target=0.00	94.0	14767	
363.00 > 169.00	9.616	9.617	-0.001	1.000	1658082		3.18(0.00-0.00)		27002	
15 Hydro-PS Acid										
463.00 > 262.90	9.645	9.617	0.028		3121653	0.0868		86.8	71726	
17 PFECA G										
378.90 > 184.90	9.759	9.732	0.027		1053522	0.0977		97.7	29645	
18 PFO4DA										
376.90 > 85.00	9.903	9.876	0.027		1027105	0.1110		111	12345	
19 PS Acid										
443.00 > 146.90	9.960	9.933	0.027		1457074	0.0923		92.3	41836	
20 EVE Acid										
407.00 > 262.90	9.960	9.962	-0.002		6430117	0.0972		97.2	137385	
21 TAF										
442.90 > 85.00	10.449	10.427	0.022		746120	0.0995		99.5	1238	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00409

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_012.d

Injection Date: 13-Feb-2021 09:37:31

Instrument ID: A12

Lims ID: CCV L7

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 12

Worklist Smp#: 1

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

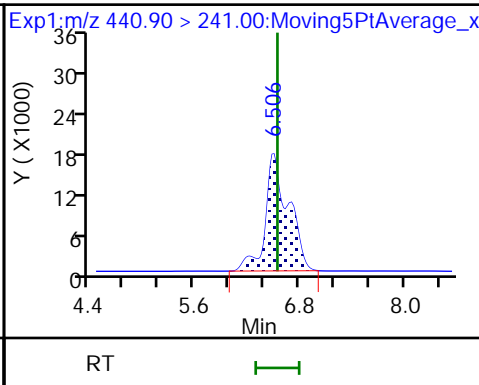
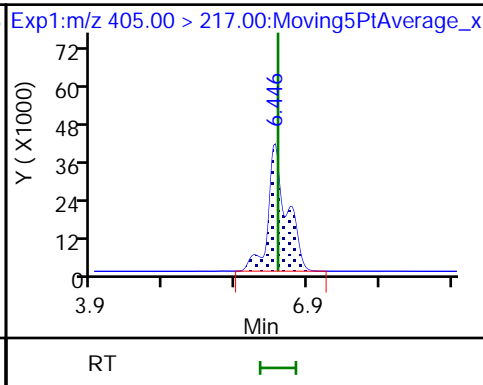
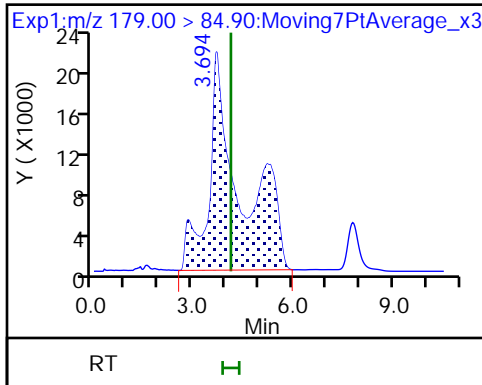
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

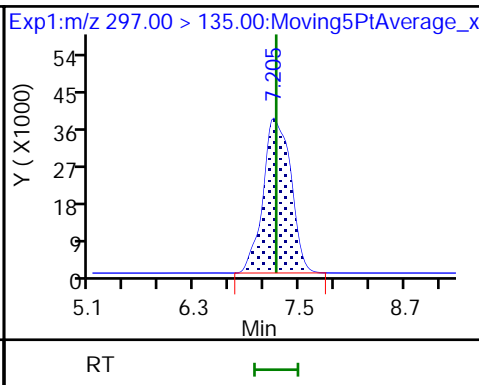
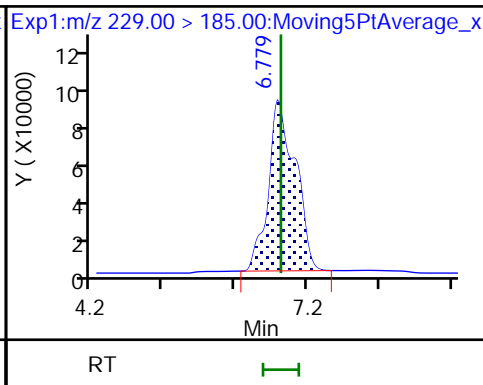
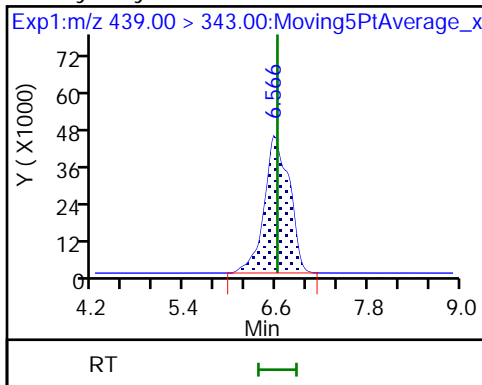
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA

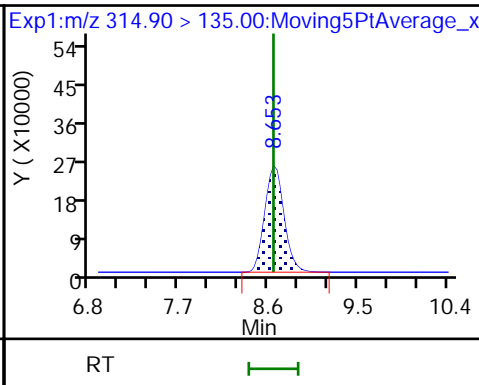
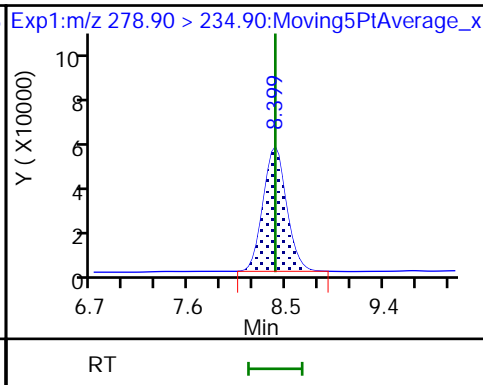
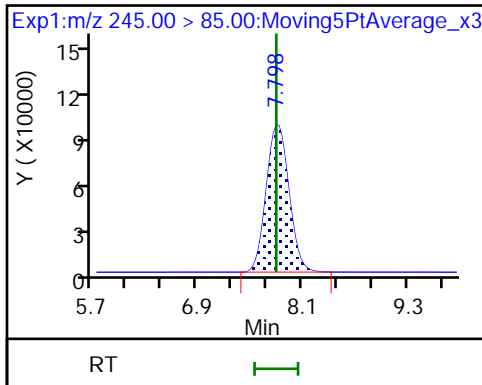
5 NVHOS



6 PFO2HxA

22 PEPA

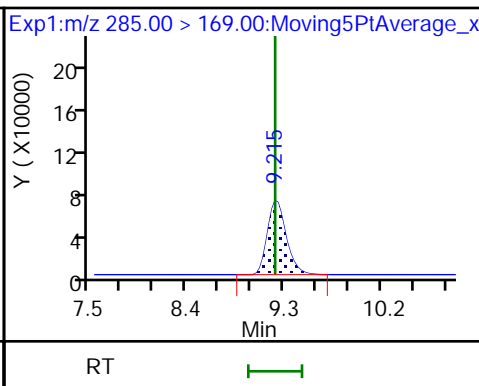
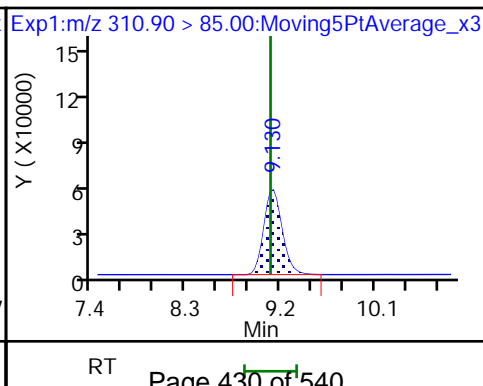
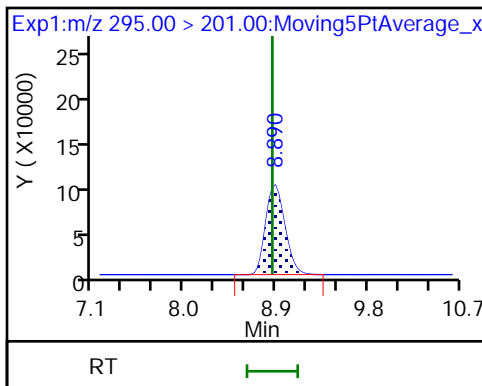
7 PES



8 PFECA B

9 PFO3OA

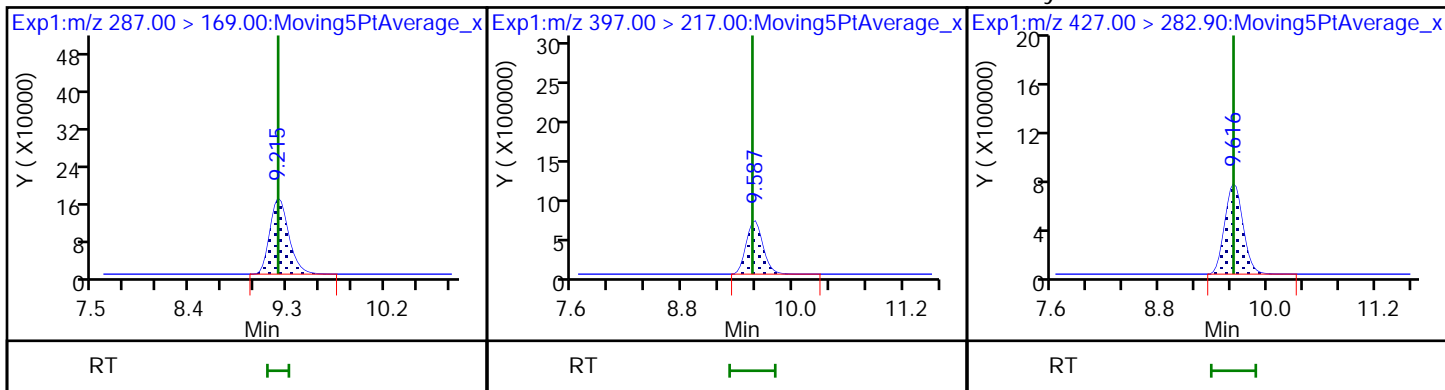
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

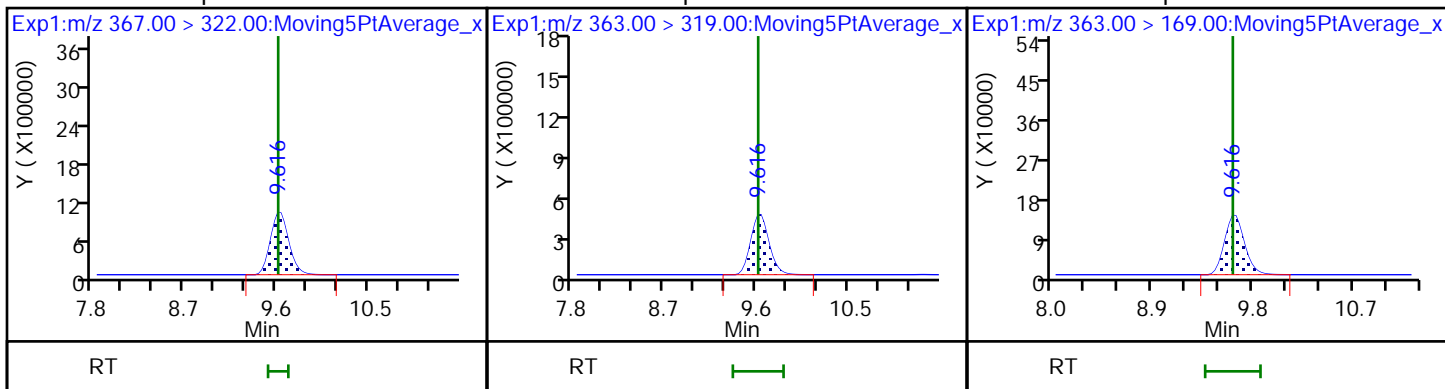
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

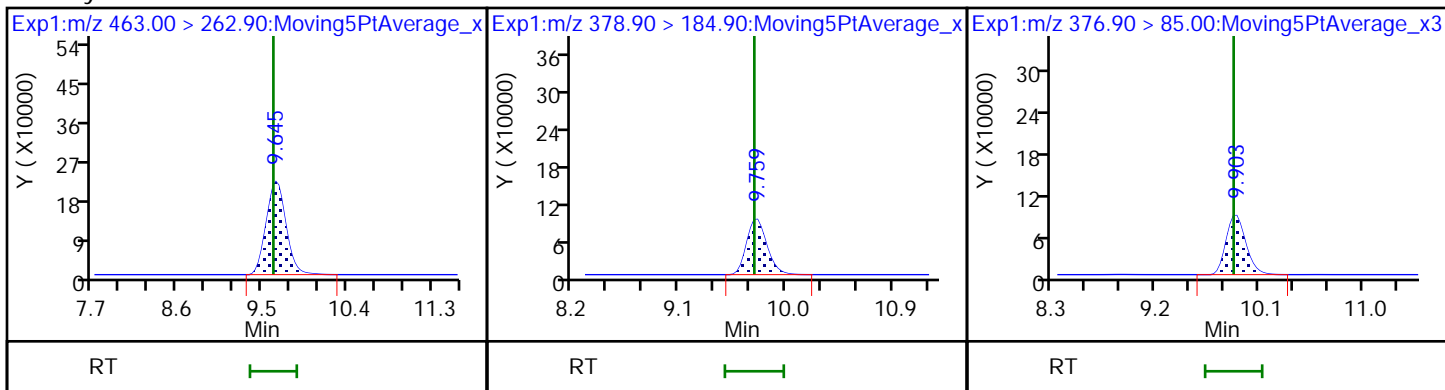
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

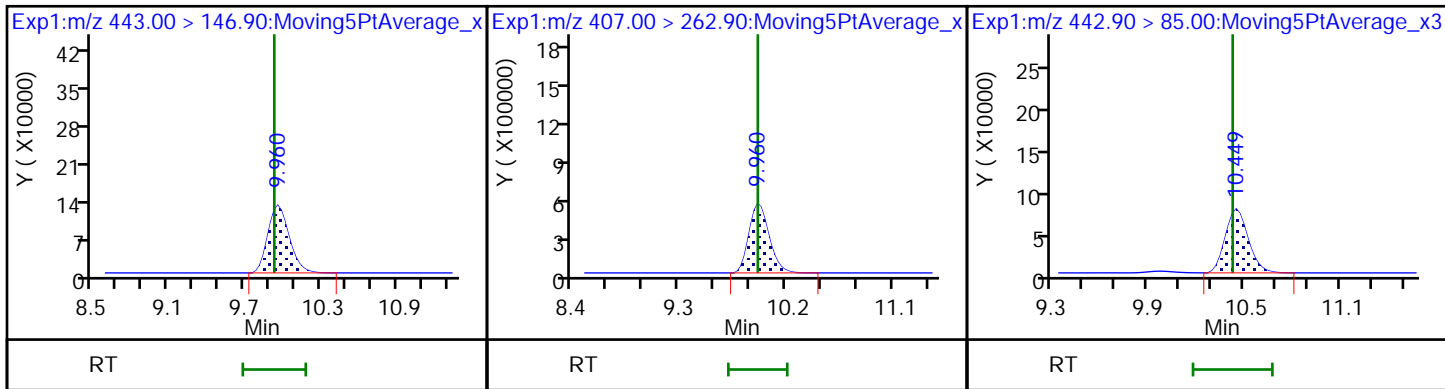
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF









Eurofins TestAmerica, Sacramento

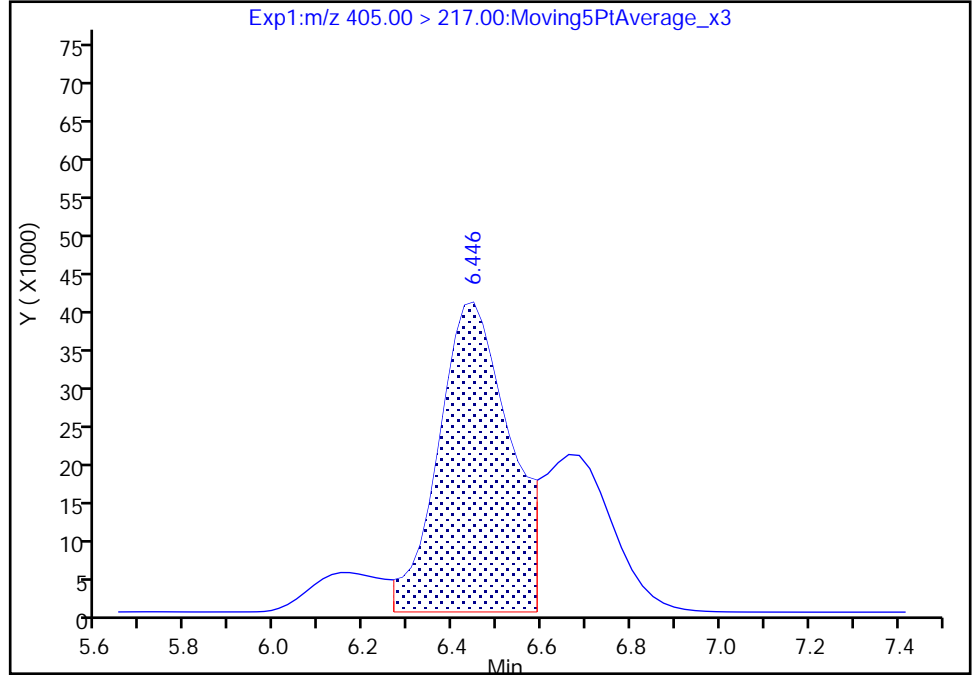
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Injection Date: 13-Feb-2021 09:37:31 Instrument ID: A12  
Lims ID: CCV L7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

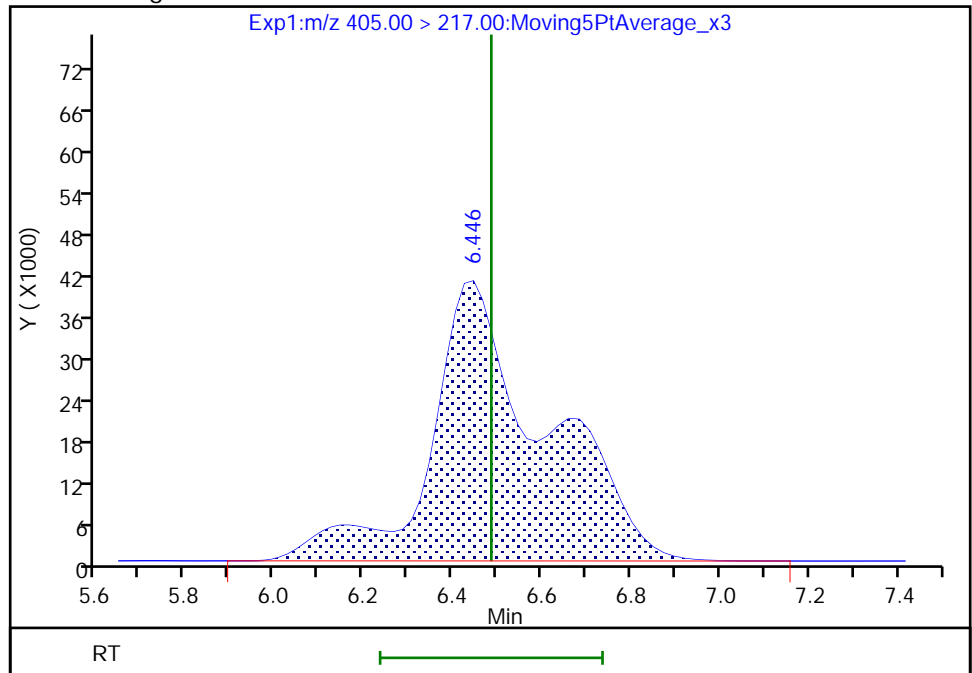
RT: 6.45  
Area: 448046  
Amount: 0.060153  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
Area: 730016  
Amount: 0.098009  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 12:08:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

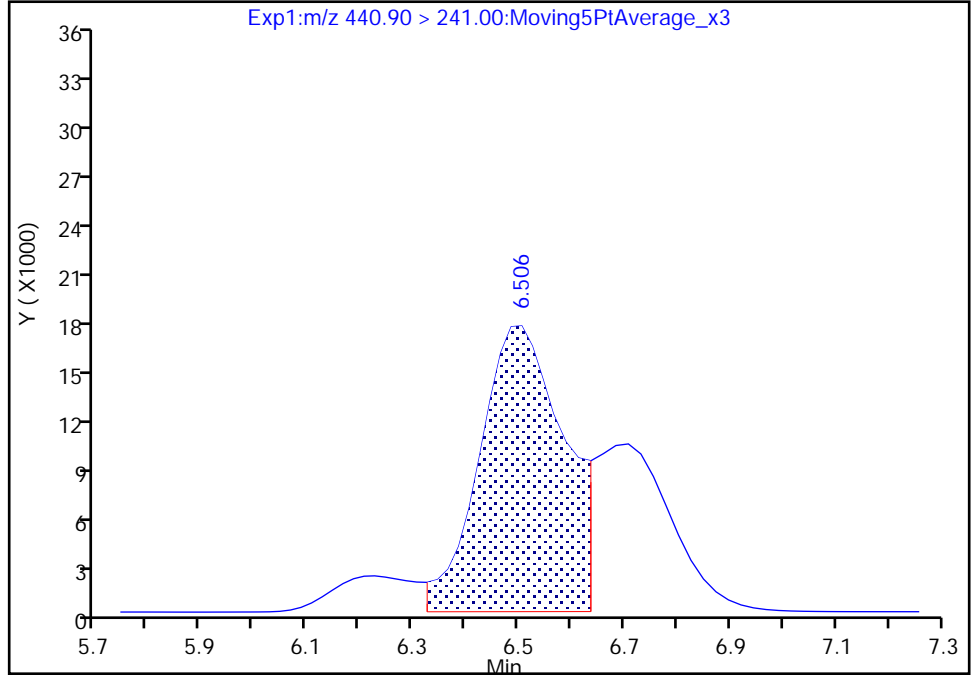
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_012.d  
Injection Date: 13-Feb-2021 09:37:31 Instrument ID: A12  
Lims ID: CCV L7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

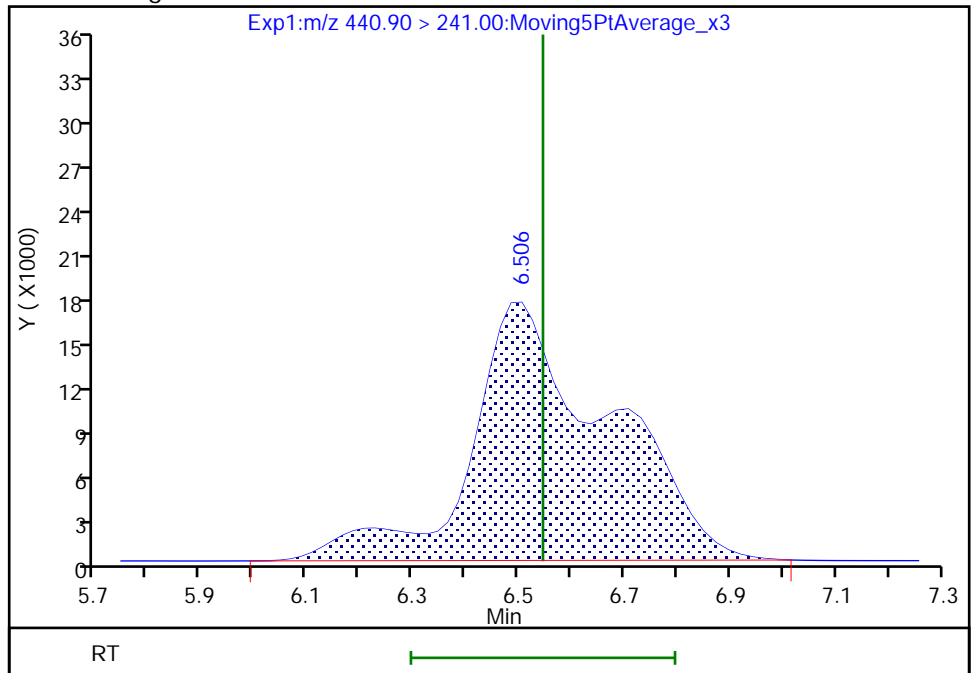
RT: 6.51  
Area: 192068  
Amount: 0.047928  
Amount Units: ng/ml

Processing Integration Results



RT: 6.51  
Area: 316435  
Amount: 0.078962  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 12:08:17  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-461727/14 Calibration Date: 02/13/2021 13:26  
 Instrument ID: A12 Calib Start Date: 02/06/2021 12:42  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/06/2021 15:55  
 Lab File ID: 2021.02.13\_A12\_TB3\_A\_025.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	15632190	14239860		91.1	100	-8.9	30.0
R-EVE	Ave	7448463	6847990		91.9	100	-8.1	50.0
R-PSDA	Ave	4007457	3045890		76.0	100	-24.0	50.0
Hydrolyzed PSDA	Ave	13072136	10097230		77.2	100	-22.8	50.0
PMPA	Ave	24496533	23403610		95.5	100	-4.5	30.0
NVHOS	Ave	9450723	8584520		90.8	100	-9.2	30.0
PFO2HxA	Ave	18510573	18389020		99.3	100	-0.7	30.0
PEPA	Ave	9392592	8466430		90.1	100	-9.9	30.0
PES	Ave	36231744	33889880		93.5	100	-6.5	30.0
PFECA B	Ave	14888661	14400190		96.7	100	-3.3	30.0
PFO3OA	Ave	7414312	7466790		101	100	0.7	30.0
HFPO-DA	AveID	1.144	1.058		92.5	100	-7.5	40.0
R-PSDCA	Ave	78126851	76020710		97.3	100	-2.7	30.0
Hydro-EVE Acid	Ave	99570804	99672080		100	100	0.1	30.0
Hydro-PS Acid	Ave	35965062	32686230		90.9	100	-9.1	30.0
Perfluoroheptanoic acid	AveID	1.158	1.079		93.2	100	-6.8	40.0
PFECA G	Ave	10785671	10492260		97.3	100	-2.7	30.0
PFO4DA	Ave	9253081	11650240		126	100	25.9	30.0
EVE Acid	Ave	66145965	65638940		99.2	100	-0.8	30.0
PS Acid	Ave	15784355	14436890		91.5	100	-8.5	30.0
PFO5DA	Ave	7500982	6795520		90.6	100	-9.4	50.0
13C3 HFPO-DA	Ave	8406413	8376872		249	250	-0.4	50.0
13C4 PFHpA	Ave	43338705	47758964		275	250	10.2	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_025.d  
 Lims ID: CCV L7  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Feb-2021 13:26:34 ALS Bottle#: 25 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (402)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 16:00:05 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 16:00:05

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.991	4.129	-0.138		1423986	0.0911		91.1	135	M
2 R-EVE										M
405.00 > 217.00	6.427	6.486	-0.059		684799	0.0919		91.9	9279	M
3 R-PSDA										
440.90 > 241.00	6.486	6.546	-0.060		304589	0.0760		76.0	3488	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.613	-0.067		1009723	0.0772		77.2	18447	
23 PMPA										
229.00 > 185.00	6.755	6.827	-0.072		2340361	0.0955		95.5	1515	
5 NVHOS										
297.00 > 135.00	7.158	7.232	-0.074		858452	0.0908		90.8	12330	
6 PFO2HxA										
245.00 > 85.00	7.737	7.799	-0.061		1838902	0.0993		99.3	14399	
22 PEPA										
278.90 > 234.90	8.331	8.399	-0.068		846643	0.0901		90.1	1094	
7 PES										
314.90 > 135.00	8.588	8.650	-0.062		3388988	0.0935		93.5	84831	
8 PFECA B										
295.00 > 201.00	8.828	8.860	-0.032		1440019	0.0967		96.7	22703	
9 PFO3OA										
310.90 > 85.00	9.075	9.103	-0.028		746679	0.1007		101	4400	
11 HPFO-DA										
285.00 > 169.00	9.160	9.216	-0.056	1.000	885940	0.0925		92.5	25149	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.160	9.216	-0.056		2094218	0.2491		99.6	59617	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.524	9.556	-0.032		7602071	0.0973		97.3	119790	
13 Hydro-EVE Acid										
427.00 > 282.90	9.556	9.617	-0.061		9967208	0.1001		100	70070	
D 14 13C4 PFHpA										
367.00 > 322.00	9.556	9.617	-0.061		11939741	0.2755		110	234786	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.589	9.617	-0.028	1.003	5151330	0.0932	Target=0.00	93.2	9497	
363.00 > 169.00	9.589	9.617	-0.028	1.003	1440207		3.58(0.00-0.00)		28401	
15 Hydro-PS Acid										
463.00 > 262.90	9.589	9.617	-0.028		3268623	0.0909		90.9	56096	
17 PFECA G										
378.90 > 184.90	9.704	9.732	-0.028		1049226	0.0973		97.3	29350	
18 PFO4DA										
376.90 > 85.00	9.847	9.876	-0.029		1165024	0.1259		126	6570	
19 PS Acid										
443.00 > 146.90	9.904	9.933	-0.029		1443689	0.0915		91.5	31070	
20 EVE Acid										
407.00 > 262.90	9.904	9.962	-0.058		6563894	0.0992		99.2	140108	
21 TAF										
442.90 > 85.00	10.401	10.427	-0.026		679552	0.0906		90.6	961	

**QC Flag Legend**

Processing Flags

Review Flags

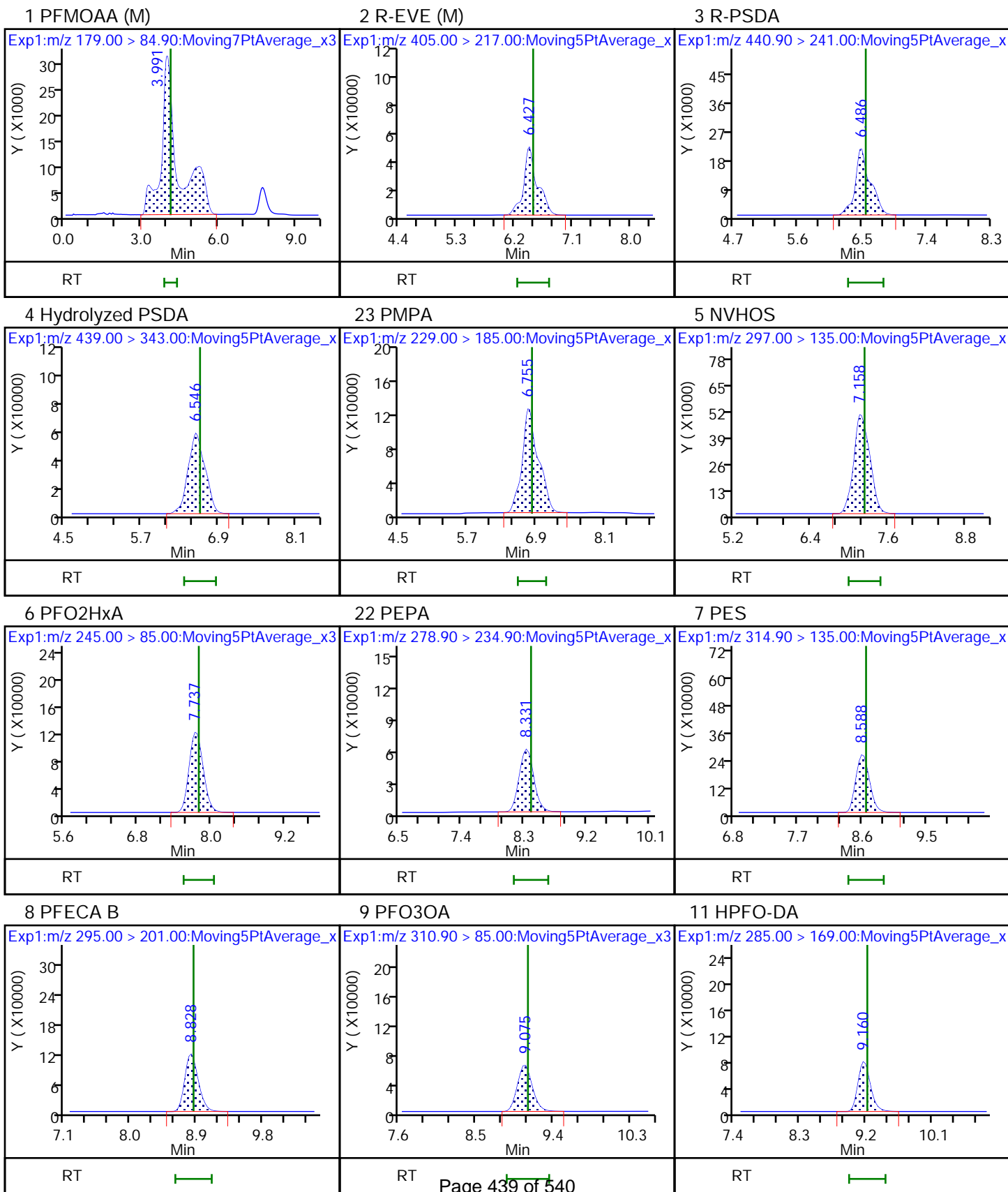
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00409

Amount Added: 1.00

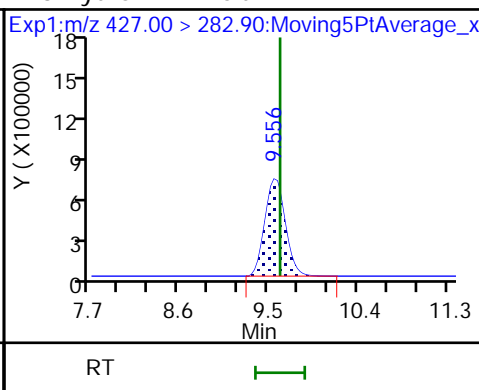
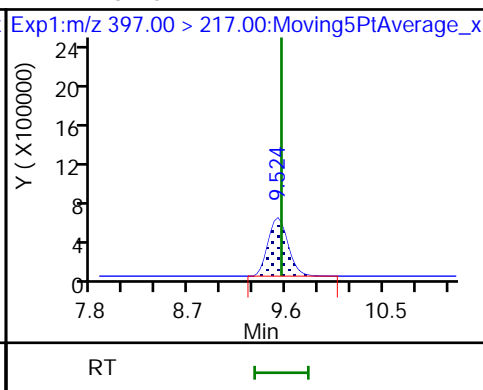
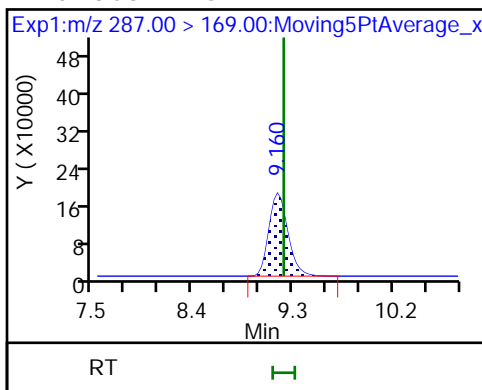
Units: mL



D 10 13C3 HFPO-DA

12 R-PSDCA

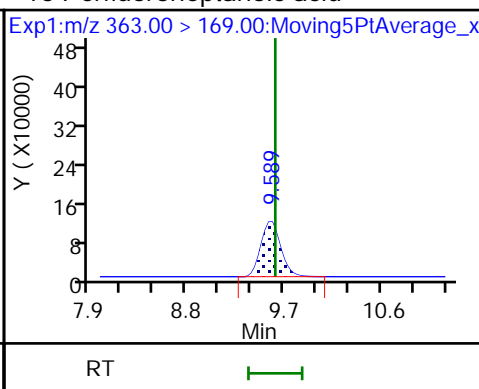
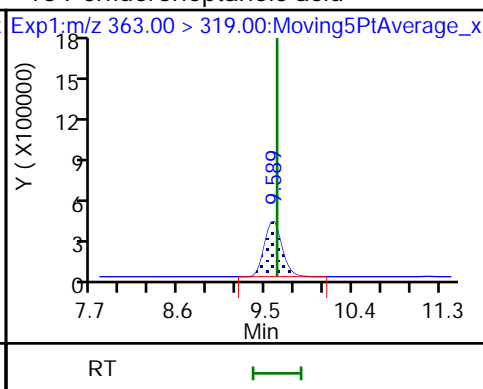
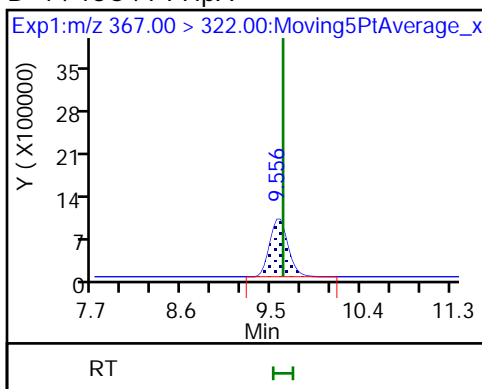
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

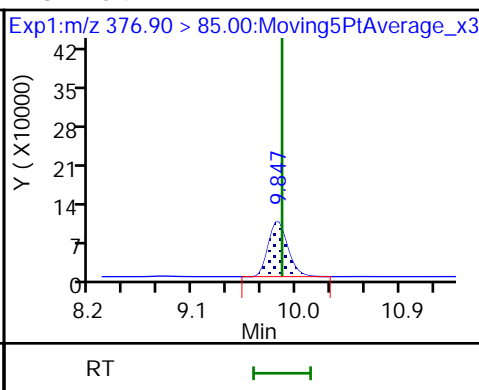
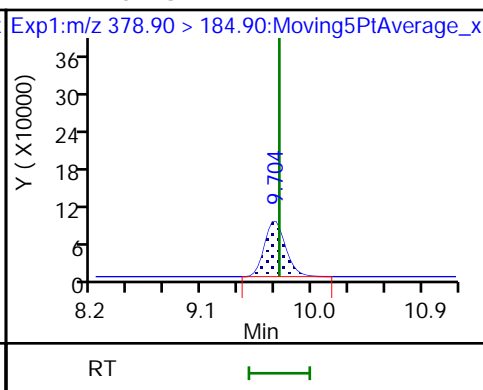
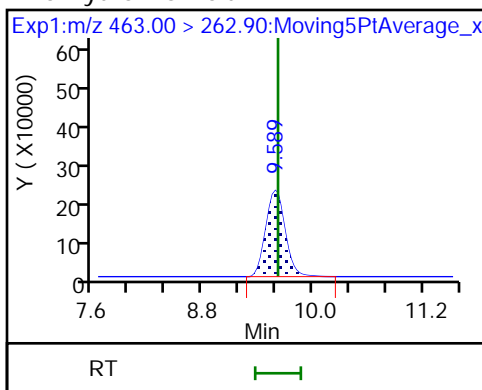
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

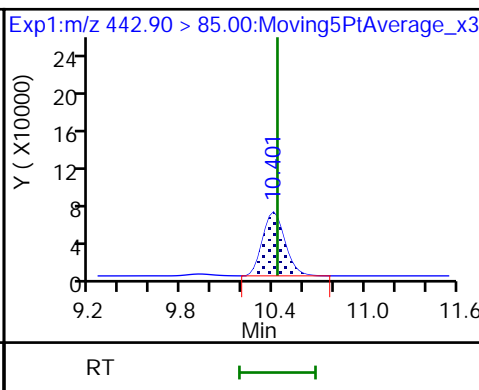
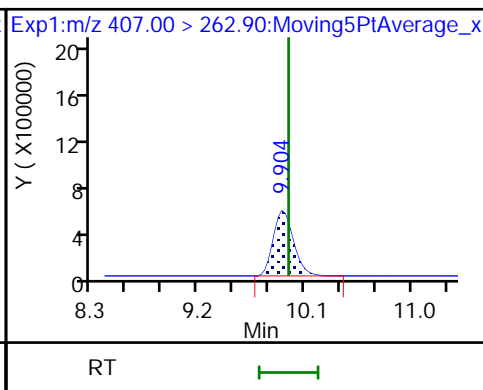
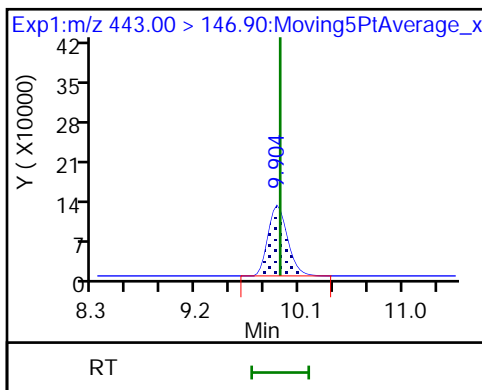
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF







Eurofins TestAmerica, Sacramento

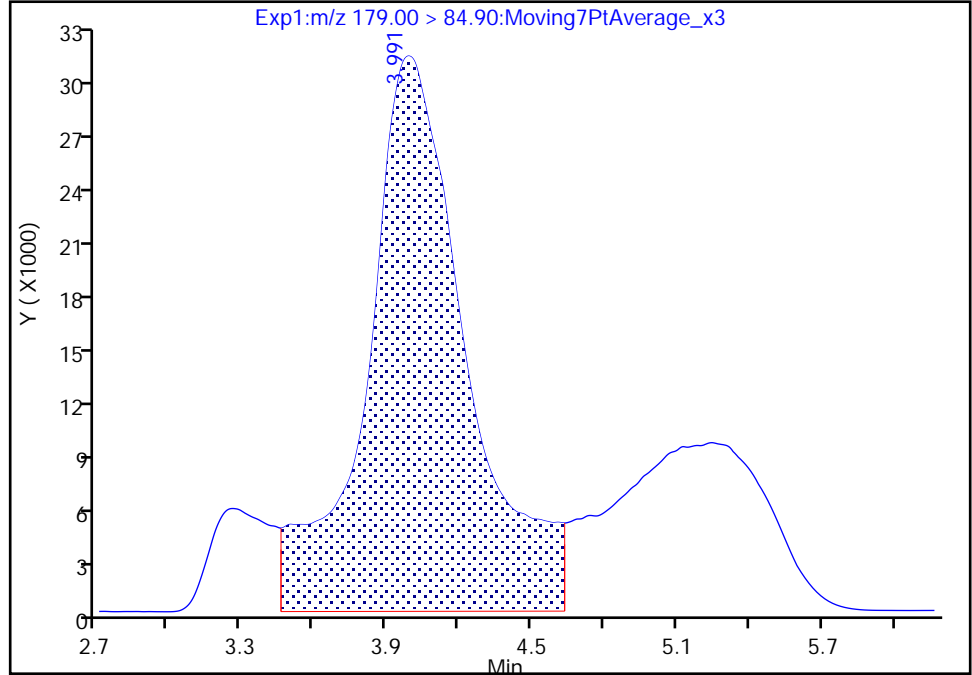
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Injection Date: 13-Feb-2021 13:26:34 Instrument ID: A12  
Lims ID: CCV L7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 25 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

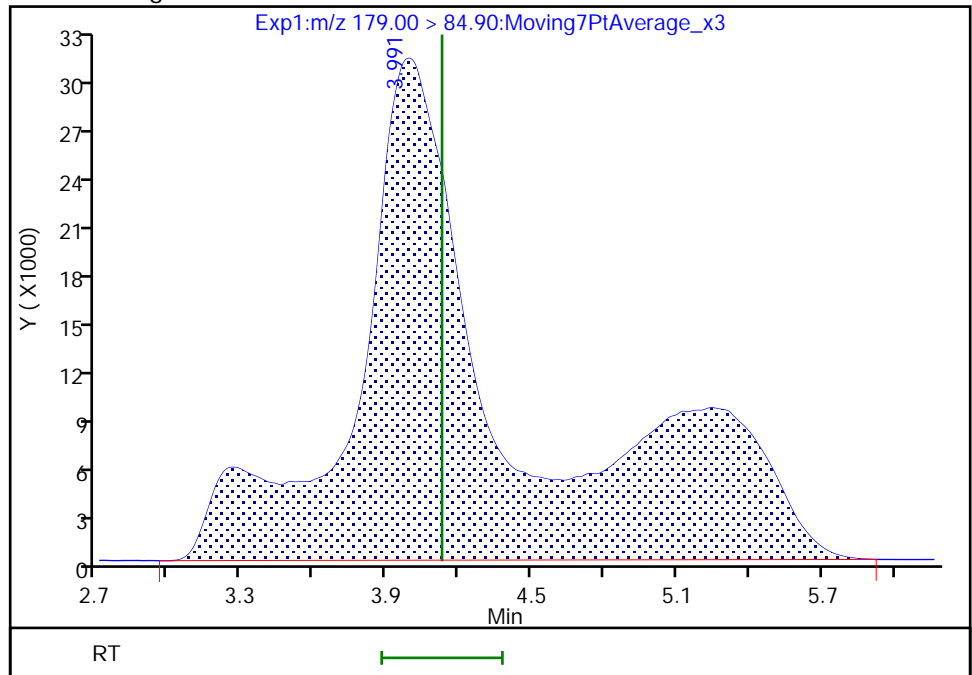
RT: 3.99  
Area: 899097  
Amount: 0.057516  
Amount Units: ng/ml

Processing Integration Results



RT: 3.99  
Area: 1423986  
Amount: 0.091093  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 15:59:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 442 of 540

Eurofins TestAmerica, Sacramento

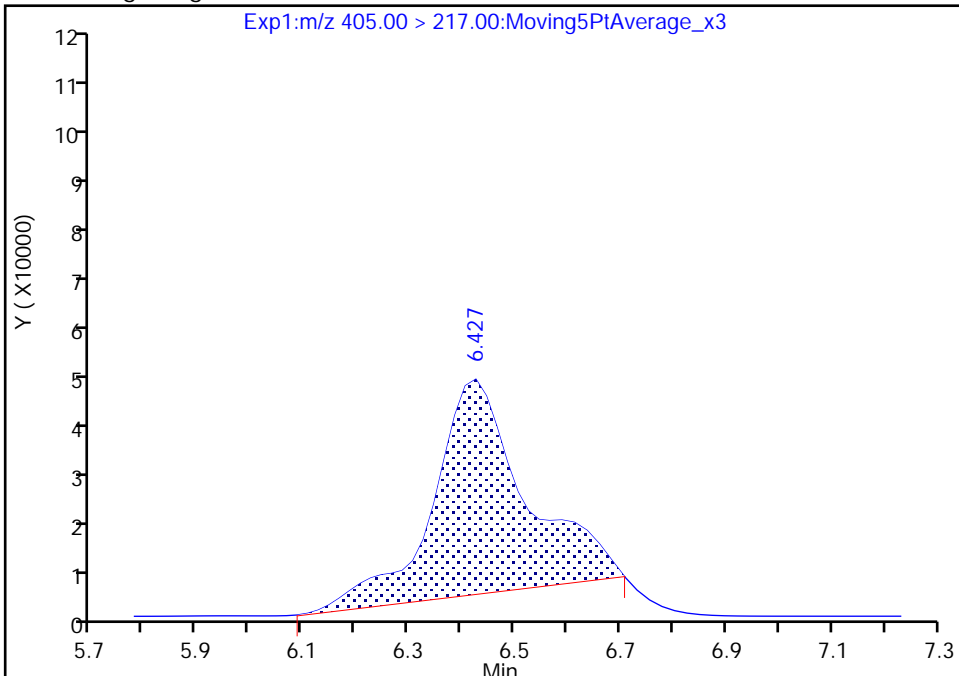
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_025.d  
Injection Date: 13-Feb-2021 13:26:34 Instrument ID: A12  
Lims ID: CCV L7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 25 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

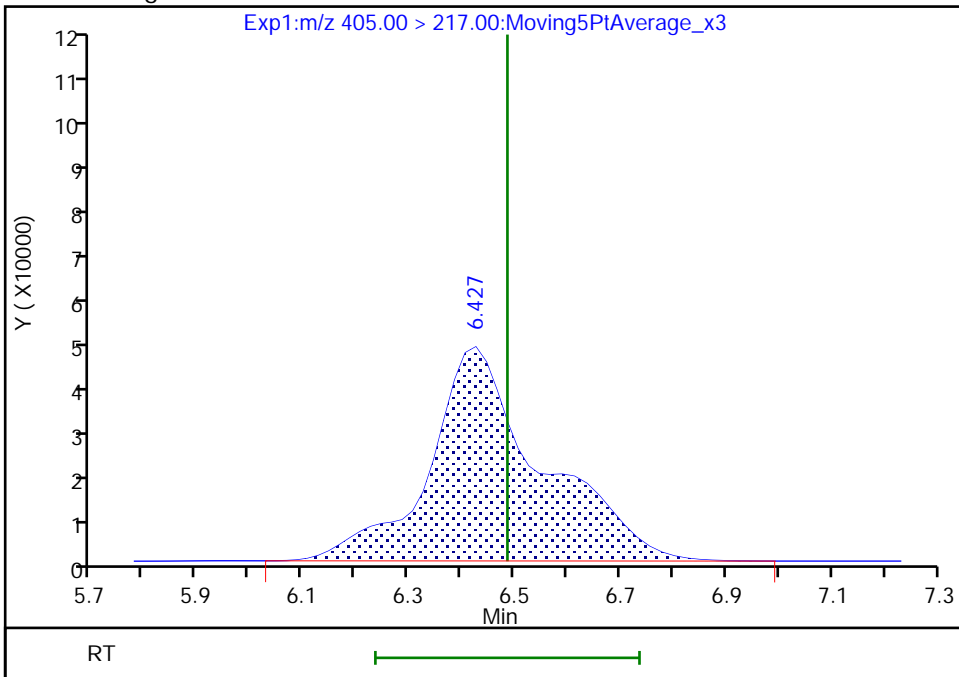
RT: 6.43  
Area: 517437  
Amount: 0.069469  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 684799  
Amount: 0.091938  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 15:59:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 443 of 540

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-463313/18 Calibration Date: 02/18/2021 23:12  
 Instrument ID: A12 Calib Start Date: 02/18/2021 18:48  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/18/2021 22:37  
 Lab File ID: 2021.02.18\_TB3\_A12\_ICALAA\_022.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12182773	12261990		101	100	0.7	30.0
R-EVE	Ave	5897414	5566170		94.4	100	-5.6	50.0
R-PSDA	Ave	2913425	2742110		94.1	100	-5.9	50.0
Hydrolyzed PSDA	Ave	8428425	8102690		96.1	100	-3.9	50.0
PMPA	Ave	24516176	22528720		91.9	100	-8.1	30.0
NVHOS	Ave	9455950	9305060		98.4	100	-1.6	30.0
PFO2HxA	Ave	17928989	17920550		100	100	-0.0	30.0
PEPA	Ave	10509422	9398960		89.4	100	-10.6	30.0
PES	Ave	36751915	36981280		101	100	0.6	30.0
PFECA B	Ave	14966609	15332690		102	100	2.4	30.0
PFO3OA	Ave	8013941	7774550		97.0	100	-3.0	30.0
HFPO-DA	AveID	1.122	1.130		101	100	0.7	40.0
R-PSDCA	Ave	61173147	62173220		102	100	1.6	30.0
Hydro-EVE Acid	Ave	77751106	78489800		101	100	1.0	30.0
Perfluoroheptanoic acid	L2ID		1.122		104	100	3.9	40.0
Hydro-PS Acid	Ave	32149356	31373680		97.6	100	-2.4	30.0
PFECA G	Ave	8991128	8424730		93.7	100	-6.3	30.0
PFO4DA	Ave	8135916	8115040		99.7	100	-0.3	30.0
EVE Acid	Ave	59029232	60277380		102	100	2.1	30.0
PS Acid	Ave	14460393	14510020		100	100	0.3	30.0
PFO5DA	Ave	7110559	7400860		104	100	4.1	50.0
13C3 HFPO-DA	Ave	9494636	9358328		246	250	-1.4	50.0
13C4 PFHpA	Ave	36089861	33864160		235	250	-6.2	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_022.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 18-Feb-2021 23:12:12 ALS Bottle#: 22 Worklist Smp#: 18  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (47)  
 Misc. Info.: Plate: 1 Rack: 1  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 19-Feb-2021 12:00:16 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1609

First Level Reviewer: fariasa Date: 19-Feb-2021 10:15:22

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.107	4.081	0.026		1226199	0.1007		124		M
2 R-EVE										M
405.00 > 217.00	6.327	6.347	-0.020		556617	0.0944		7769		M
3 R-PSDA										M
440.90 > 241.00	6.387	6.407	-0.020		274211	0.0941		3916		M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.466	6.486	-0.020		810269	0.0961		17265		
23 PMPA										M
229.00 > 185.00	6.684	6.708	-0.024		2252872	0.0919		1666		M
5 NVHOS										M
297.00 > 135.00	7.087	7.087	0.0		930506	0.0984		15284		M
6 PFO2HxA										M
245.00 > 85.00	7.647	7.676	-0.029		1792055	0.1000		10132		M
22 PEPA										
278.90 > 234.90	8.259	8.259	0.0		939896	0.0894		2598		
7 PES										M
314.90 > 135.00	8.522	8.522	0.0		3698128	0.1006		55095		M
8 PFECA B										
295.00 > 201.00	8.740	8.740	0.0		1533269	0.1024		30672		
9 PFO3OA										
310.90 > 85.00	8.985	8.986	-0.001		777455	0.0970		15499		
11 HPFO-DA										
285.00 > 169.00	9.074	9.102	-0.028	1.000	1057325	0.1007		29511		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.074	9.102	-0.028		2339582	0.2464		98.6	65319	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.425	9.458	-0.033		6217322	0.1016			119487	
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.490	0.0		7848980	0.1010			77506	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.523	-0.033		8466040	0.2346		93.8	163954	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.523	-0.033	1.000	3797916	0.1039	Target=0.00		14744	
363.00 > 169.00	9.490	9.523	-0.033	1.000	1115375		3.41(0.00-0.00)		21614	
15 Hydro-PS Acid										M
463.00 > 262.90	9.523	9.523	0.0		3137368	0.0976			51968	M
17 PFECA G										
378.90 > 184.90	9.616	9.616	0.0		842473	0.0937			22937	
18 PFO4DA										
376.90 > 85.00	9.760	9.760	0.0		811504	0.0997			13788	
20 EVE Acid										
407.00 > 262.90	9.817	9.846	-0.029		6027738	0.1021			126982	
19 PS Acid										
443.00 > 146.90	9.817	9.846	-0.029		1451002	0.1003			30910	
21 TAF										
442.90 > 85.00	10.322	10.348	-0.026		740086	0.1041			1721	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00047

Amount Added: 1.00

Units: mL

Data File: \\chromf\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_022.d

Injection Date: 18-Feb-2021 23:12:12

Instrument ID: A12

Lims ID: ICV

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 22

Worklist Smp#: 18

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

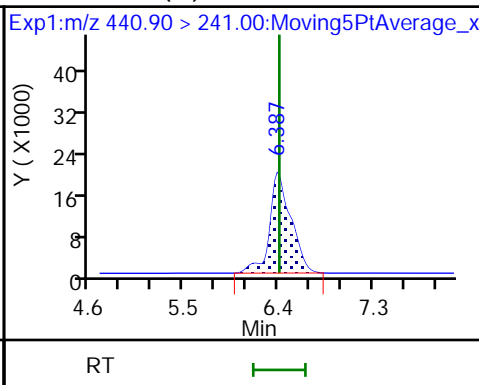
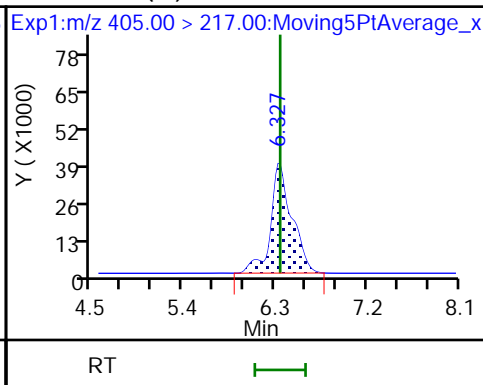
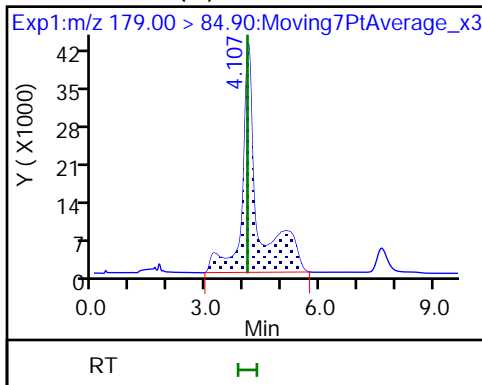
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

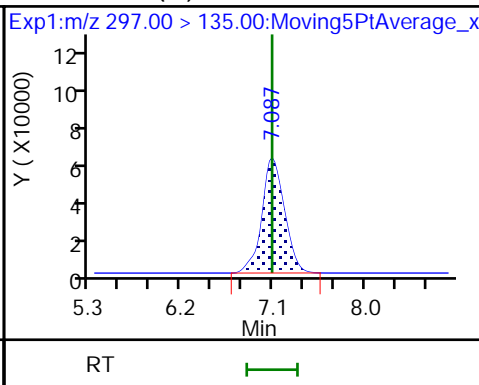
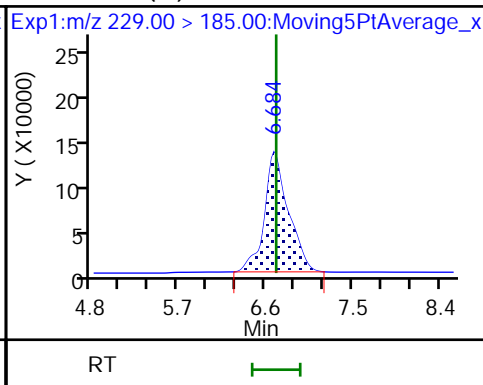
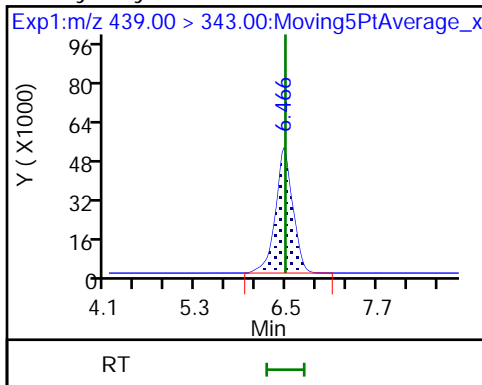
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA (M)

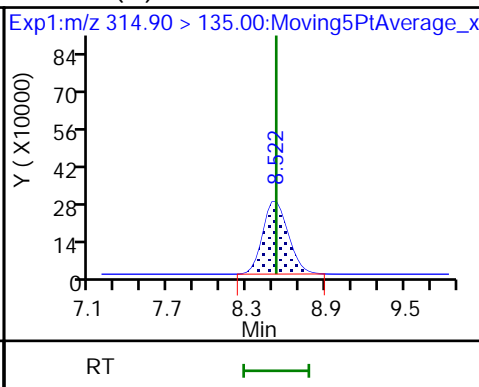
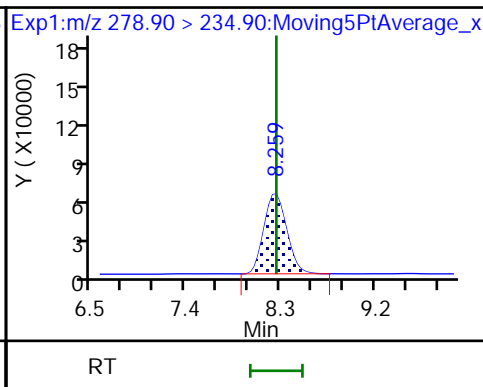
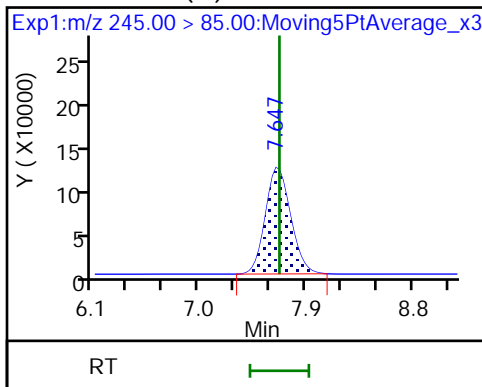
5 NVHOS (M)



6 PFO2HxA (M)

22 PEPA

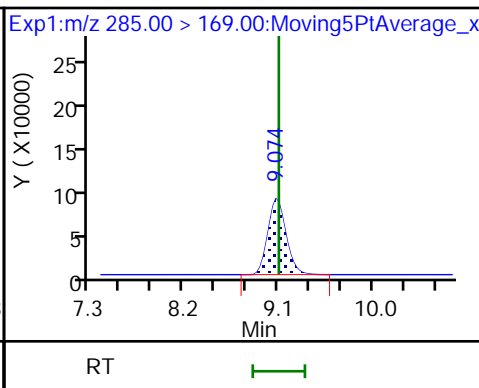
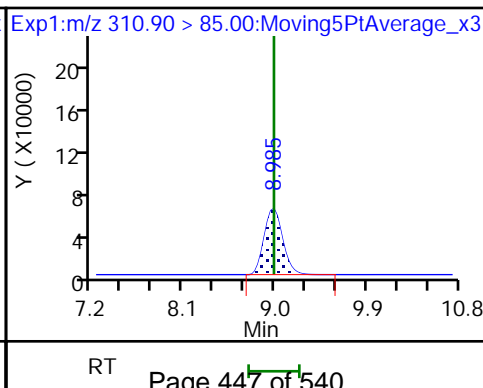
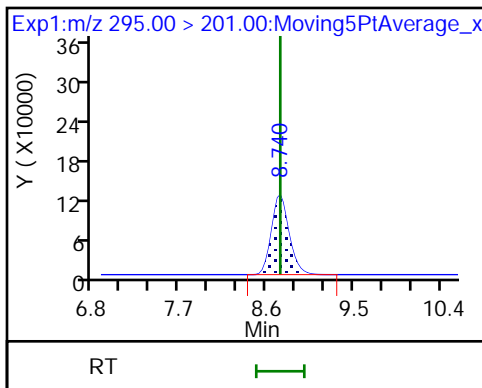
7 PES (M)



8 PFECA B

9 PFO3OA

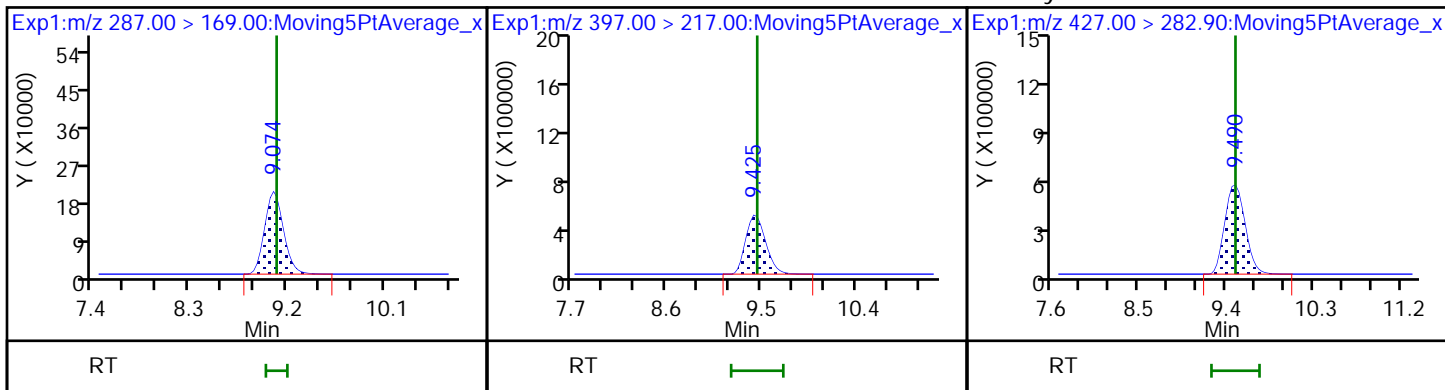
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

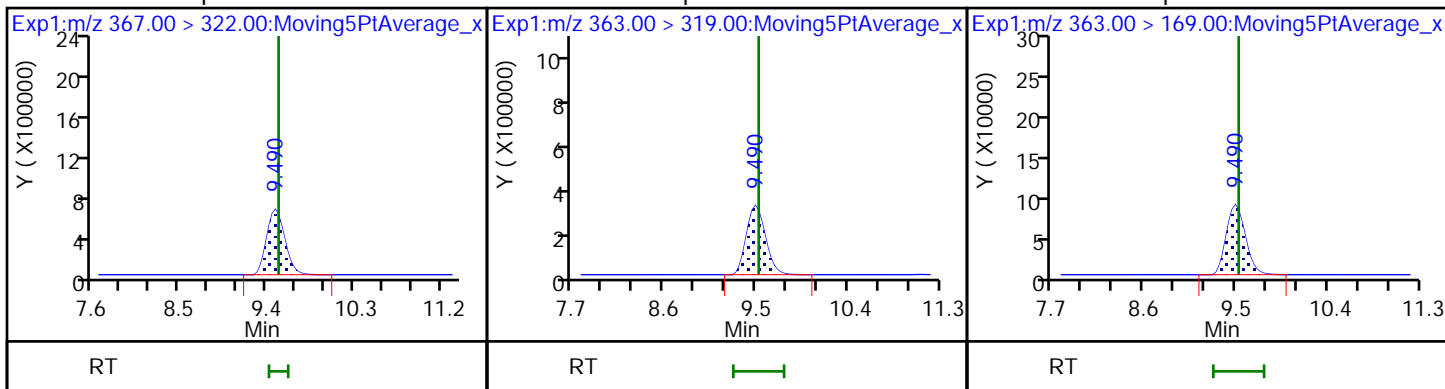
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

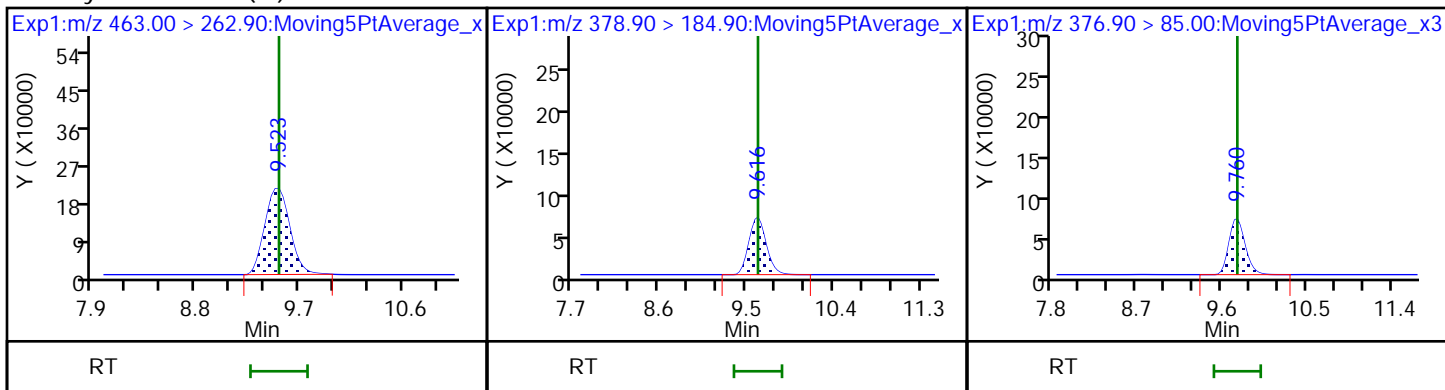
16 Perfluoroheptanoic acid



15 Hydro-PS Acid (M)

17 PFECA G

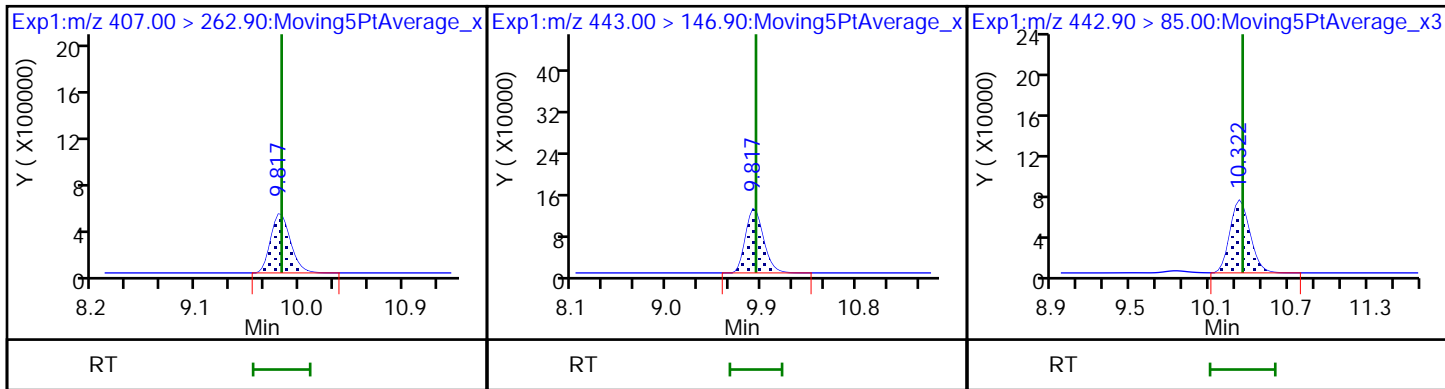
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF







Eurofins TestAmerica, Sacramento

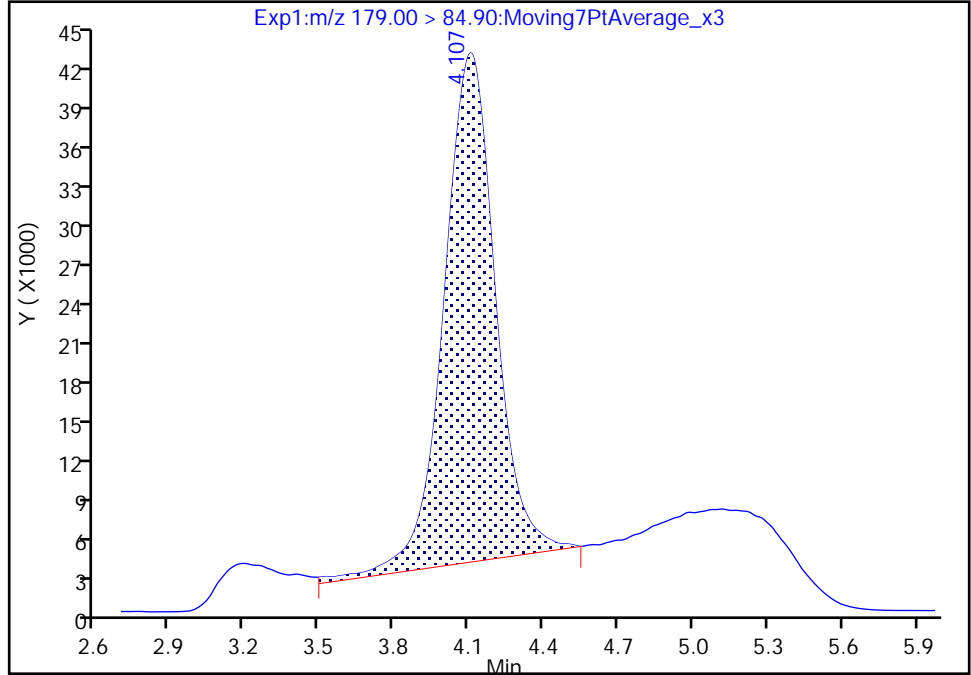
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_022.d  
Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

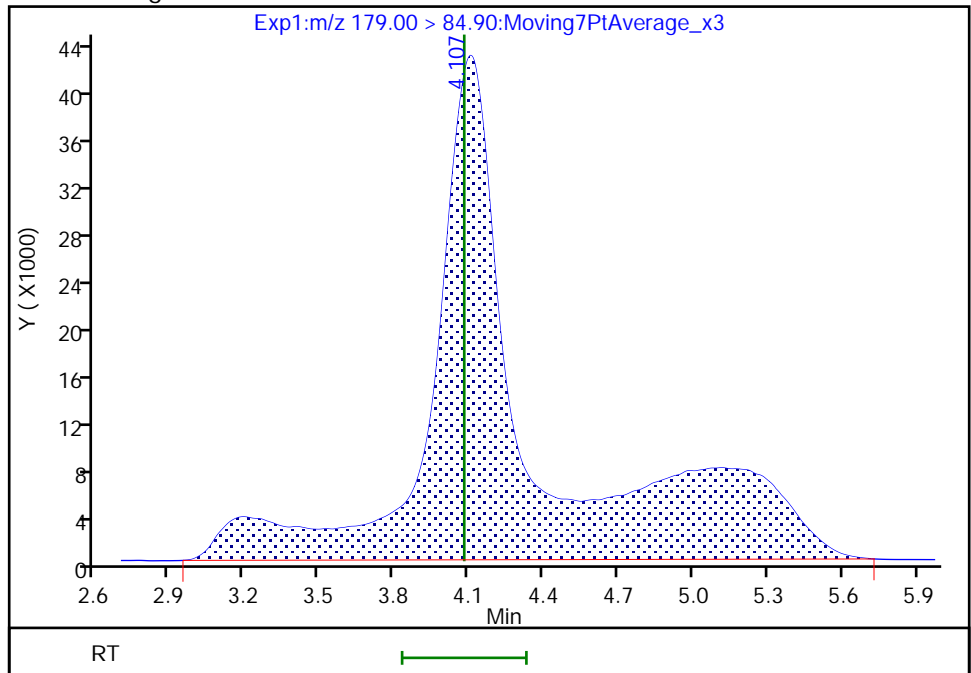
RT: 4.11  
Area: 565623  
Amount: 0.046690  
Amount Units: ng/ml

Processing Integration Results



RT: 4.11  
Area: 1226199  
Amount: 0.100650  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

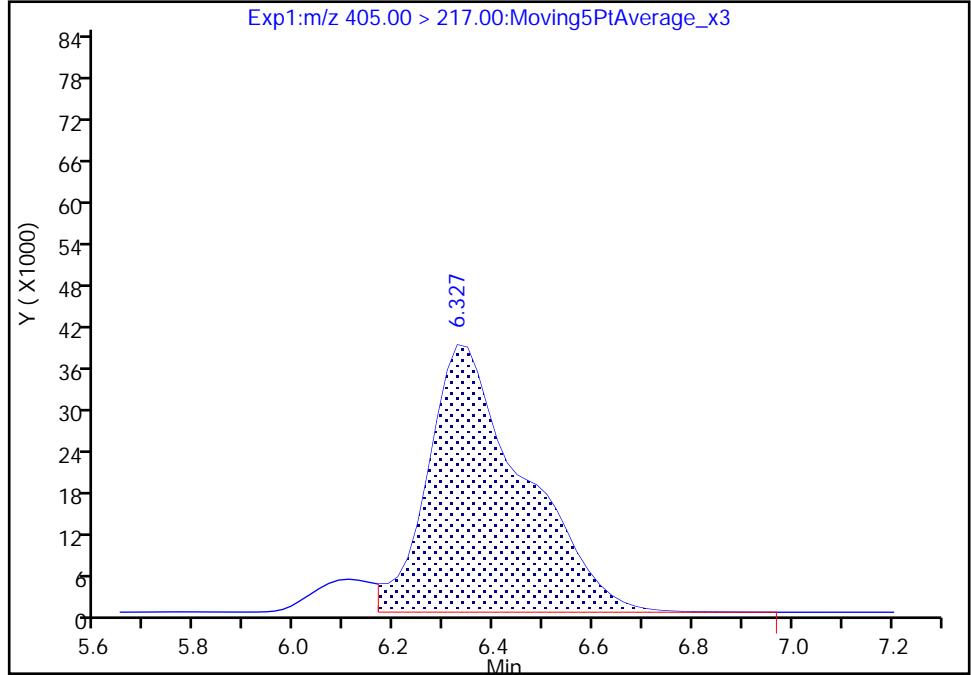
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

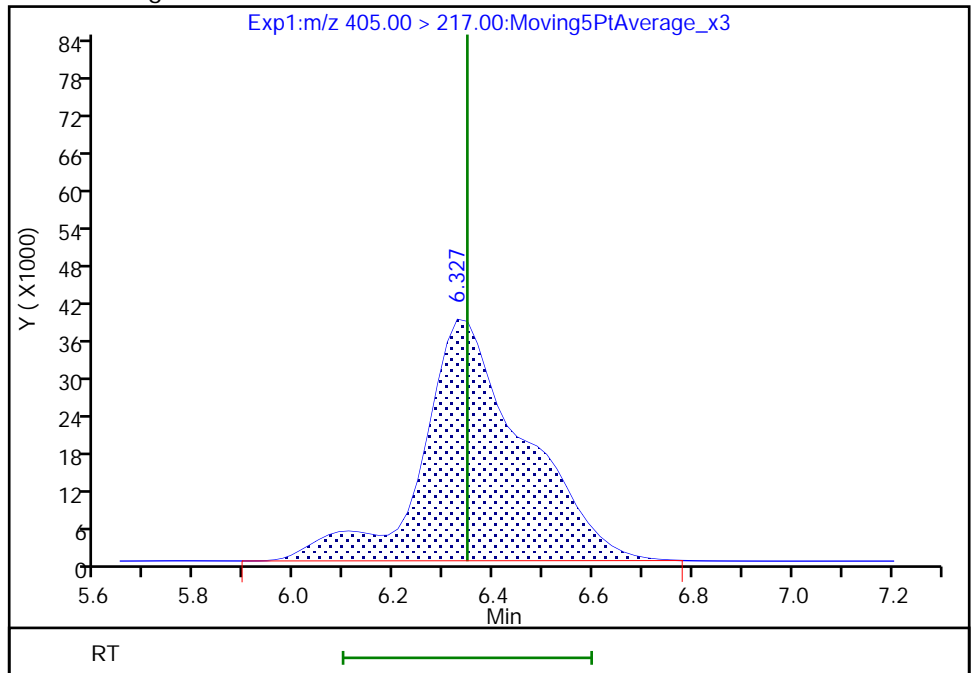
RT: 6.33  
Area: 519609  
Amount: 0.089202  
Amount Units: ng/ml

Processing Integration Results



RT: 6.33  
Area: 556617  
Amount: 0.094383  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 451 of 540

Eurofins TestAmerica, Sacramento

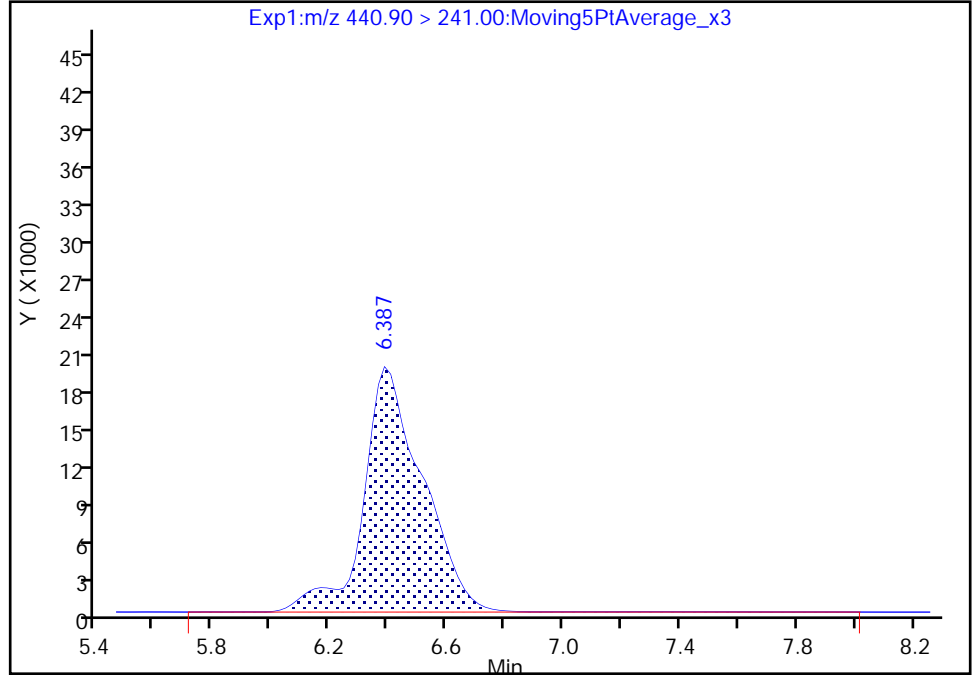
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

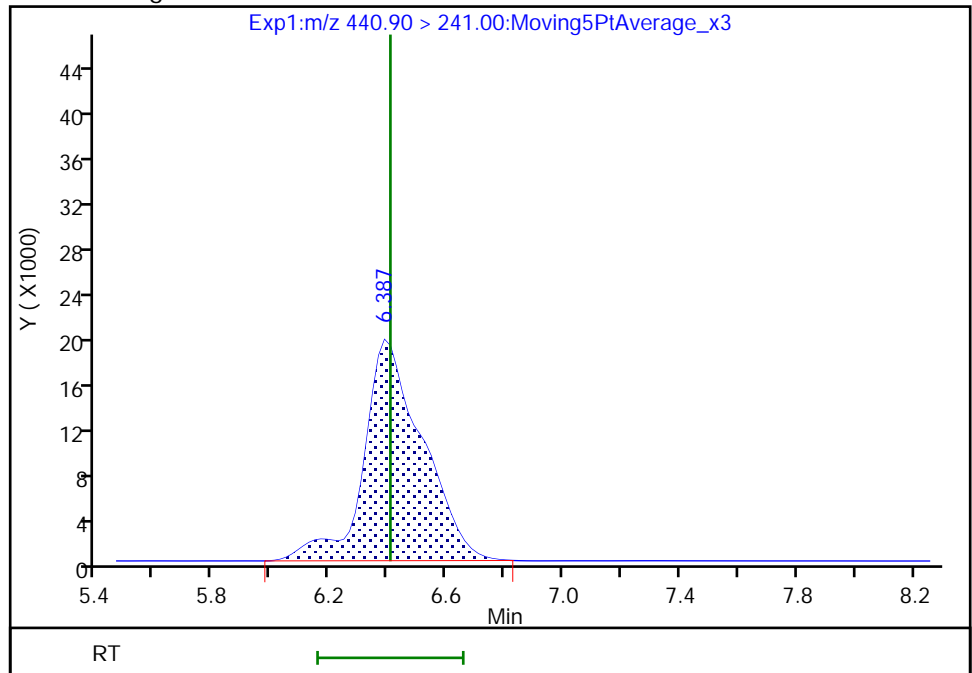
RT: 6.39  
Area: 276172  
Amount: 0.092584  
Amount Units: ng/ml

Processing Integration Results



RT: 6.39  
Area: 274211  
Amount: 0.094120  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:42  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 452 of 540

Eurofins TestAmerica, Sacramento

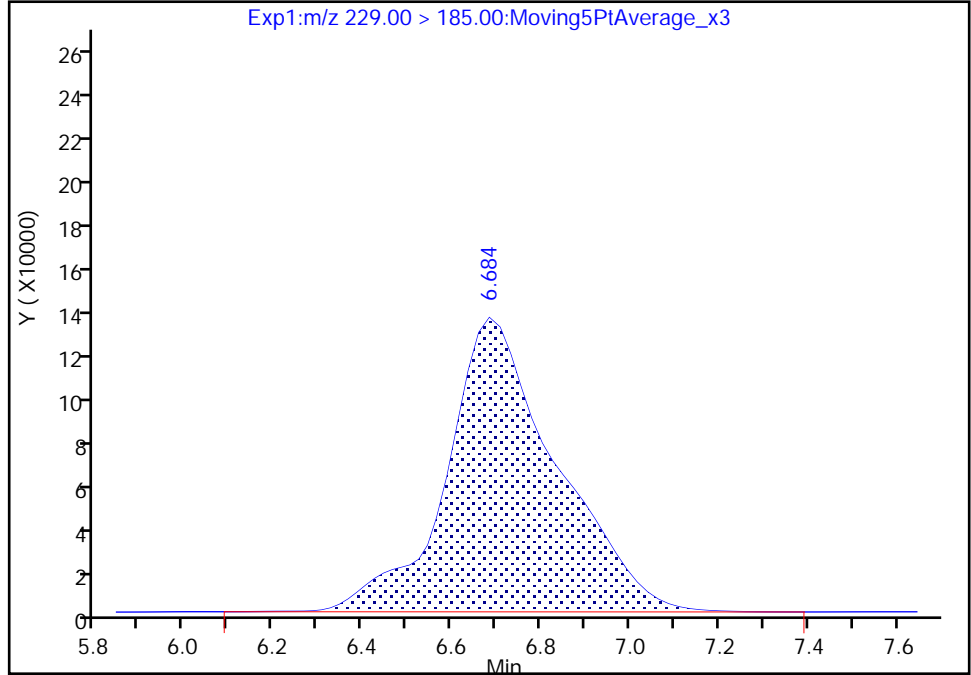
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

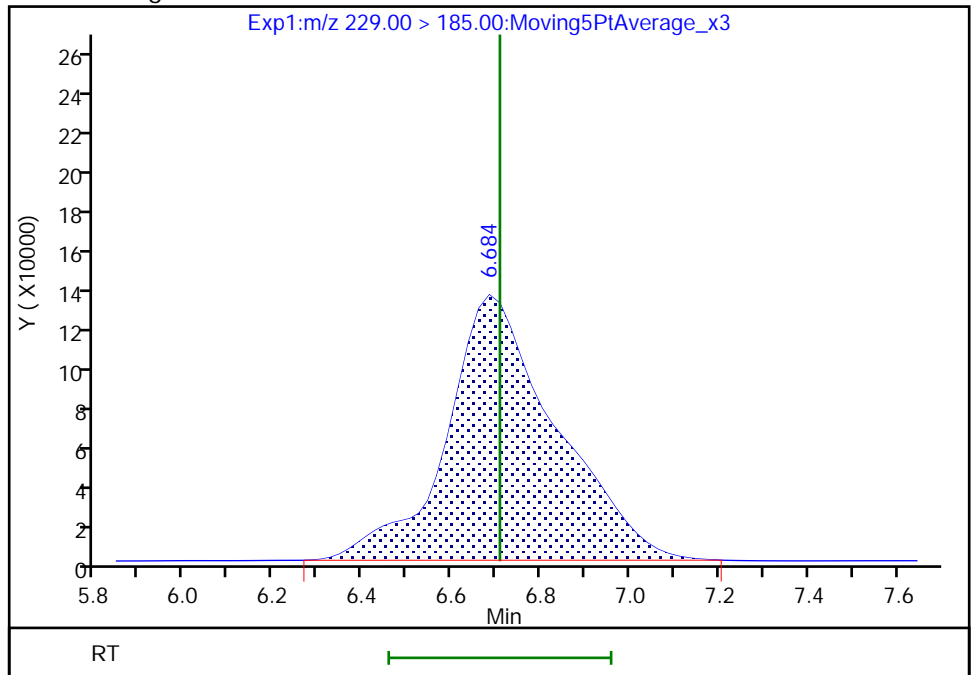
RT: 6.68  
Area: 2270222  
Amount: 0.099906  
Amount Units: ng/ml

Processing Integration Results



RT: 6.68  
Area: 2252872  
Amount: 0.091893  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

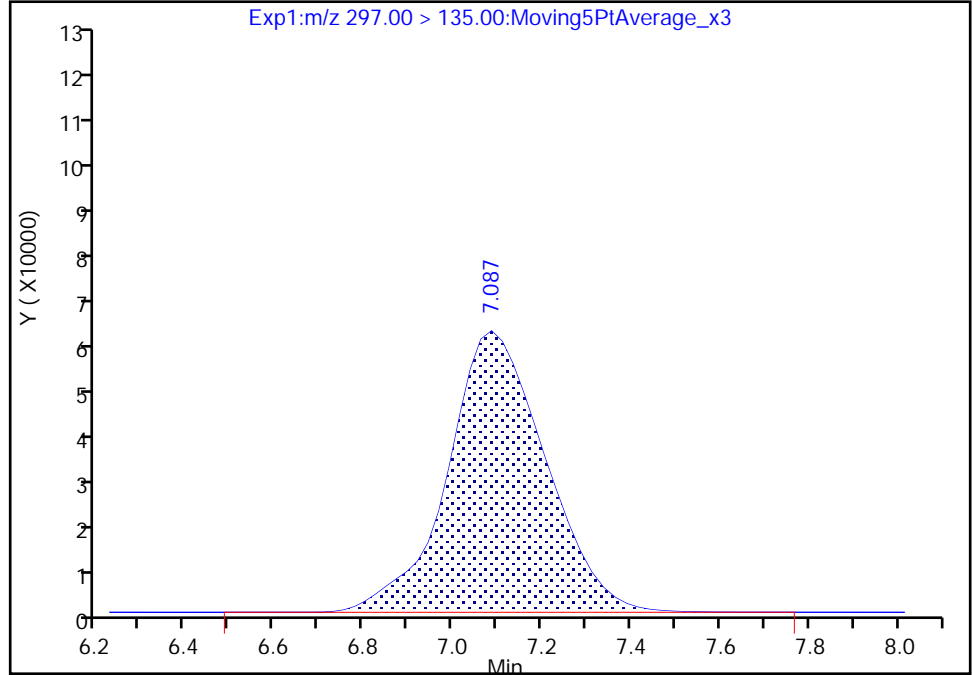
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

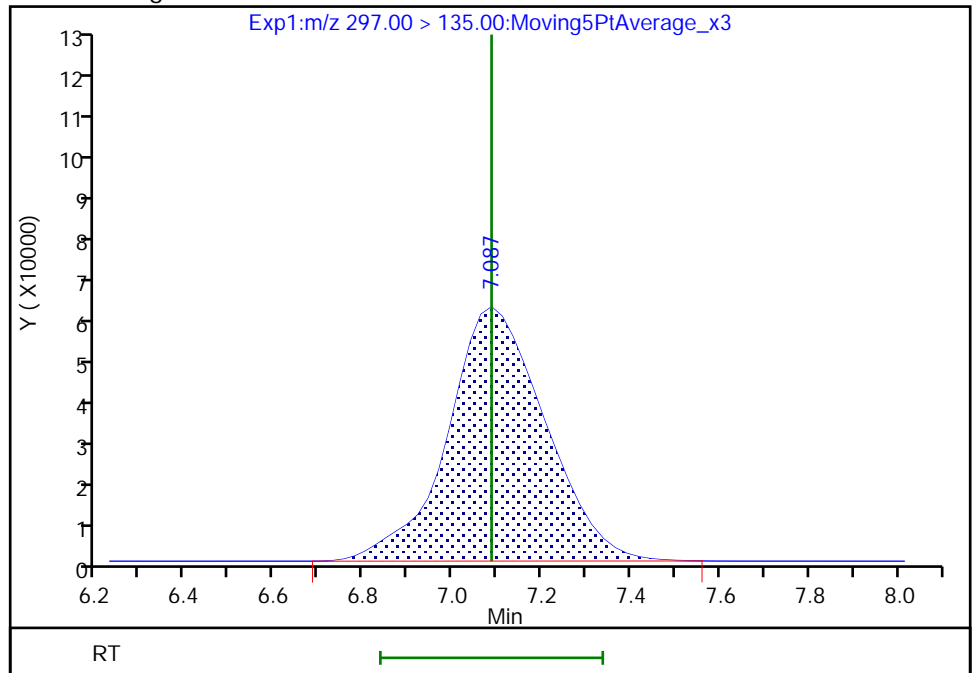
RT: 7.09  
Area: 931872  
Amount: 0.098549  
Amount Units: ng/ml

Processing Integration Results



RT: 7.09  
Area: 930506  
Amount: 0.098404  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:51  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

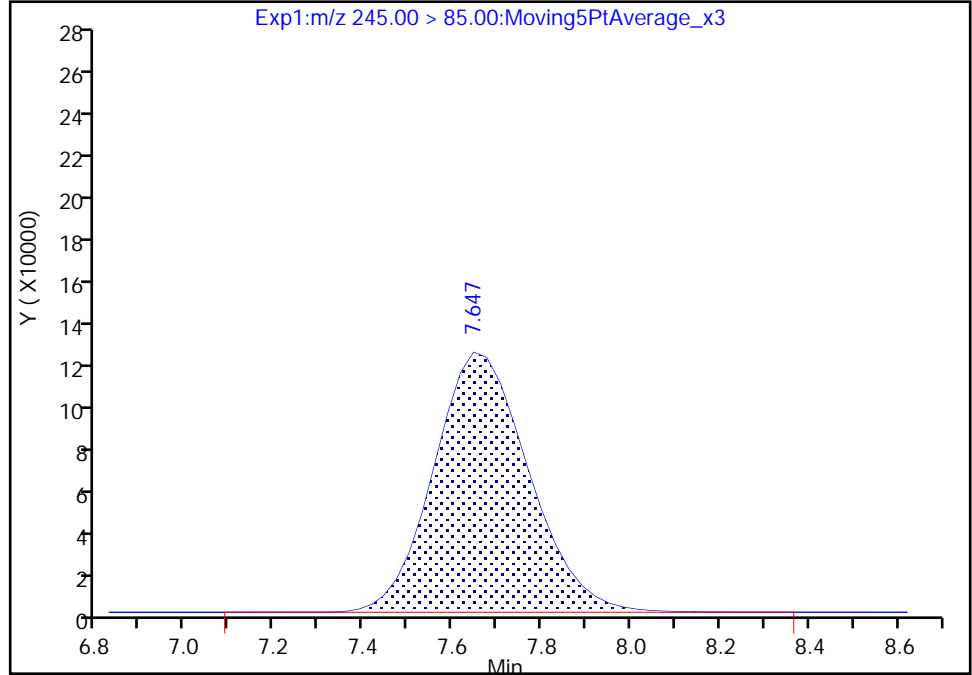
Data File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_022.d  
Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 PFO2HxA, CAS: 39492-88-1

Signal: 1

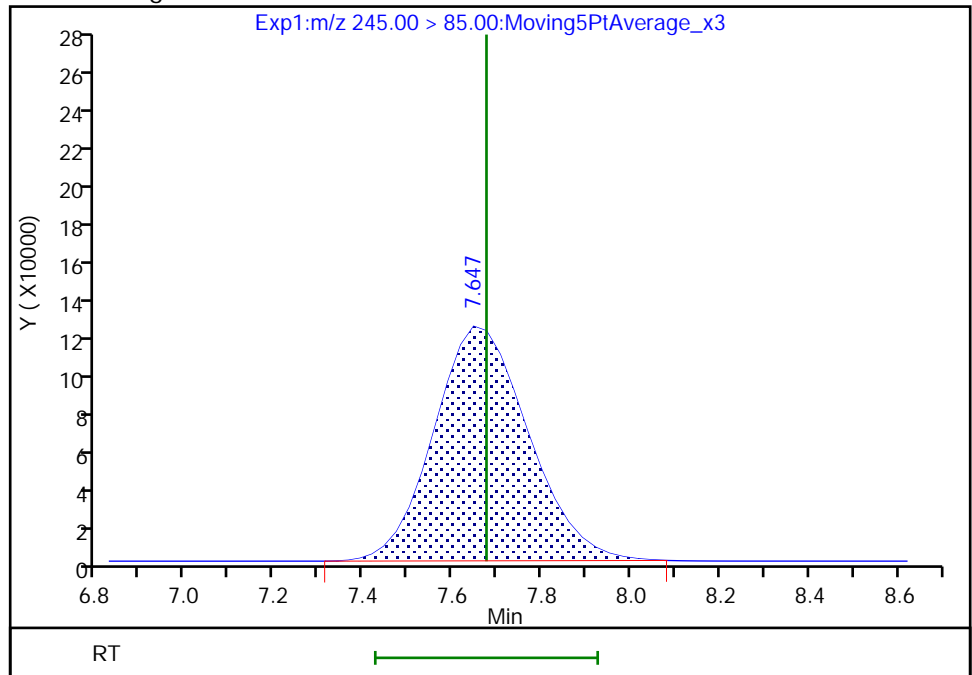
RT: 7.65  
Area: 1801383  
Amount: 0.100473  
Amount Units: ng/ml

Processing Integration Results



RT: 7.65  
Area: 1792055  
Amount: 0.099953  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:14:56  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

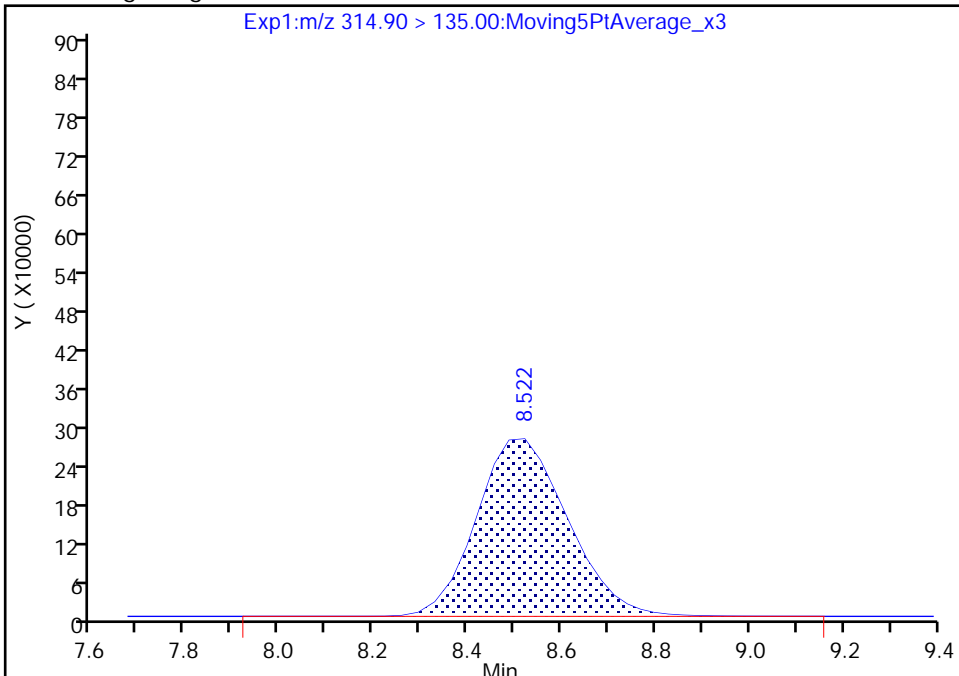
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PES, CAS: 113507-82-7

Signal: 1

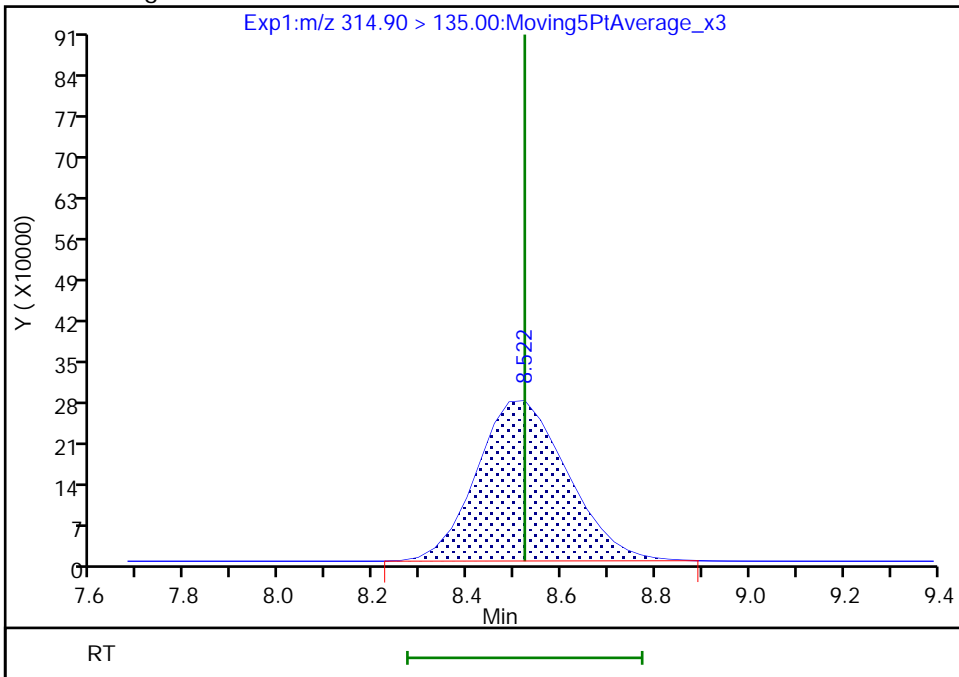
RT: 8.52  
Area: 3720405  
Amount: 0.101230  
Amount Units: ng/ml

Processing Integration Results



RT: 8.52  
Area: 3698128  
Amount: 0.100624  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:15:01  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

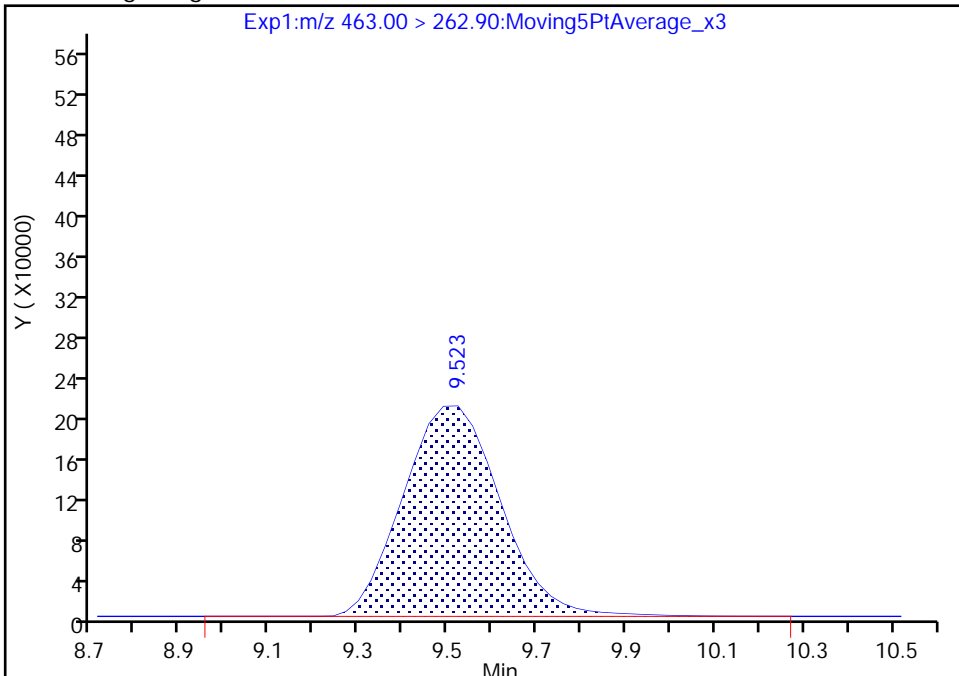
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Injection Date: 18-Feb-2021 23:12:12 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

15 Hydro-PS Acid, CAS: 749836-20-2

Signal: 1

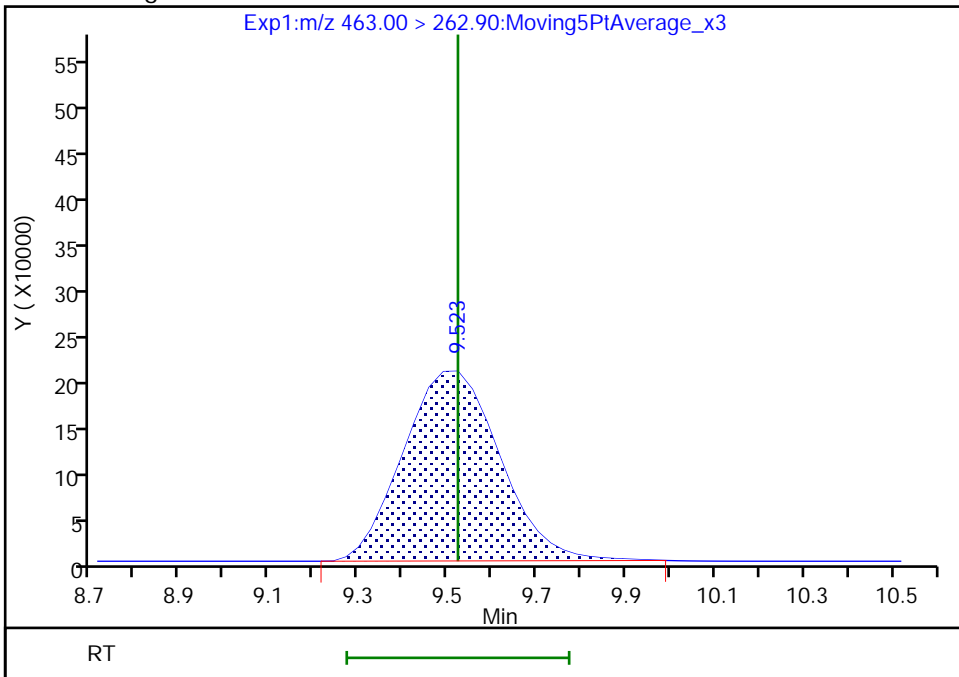
RT: 9.52  
Area: 3160131  
Amount: 0.098295  
Amount Units: ng/ml

Processing Integration Results



RT: 9.52  
Area: 3137368  
Amount: 0.097587  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 19-Feb-2021 10:15:11  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-463813/1 Calibration Date: 02/21/2021 04:06  
 Instrument ID: A12 Calib Start Date: 02/18/2021 18:48  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/18/2021 22:37  
 Lab File ID: 2021.02.20\_A12\_TB3\_B\_012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12182773	12887270		106	100	5.8	30.0
R-EVE	Ave	5897414	5523830		93.7	100	-6.3	50.0
R-PSDA	Ave	2913425	2370190		81.4	100	-18.6	50.0
Hydrolyzed PSDA	Ave	8428425	8067940		95.7	100	-4.3	50.0
PMPA	Ave	24516176	21818330		89.0	100	-11.0	30.0
NVHOS	Ave	9455950	7727900		81.7	100	-18.3	30.0
PFO2HxA	Ave	17928989	16799920		93.7	100	-6.3	30.0
PEPA	Ave	10509422	8312270		79.1	100	-20.9	30.0
PES	Ave	36751915	32411470		88.2	100	-11.8	30.0
PFECA B	Ave	14966609	12884800		86.1	100	-13.9	30.0
PFO3OA	Ave	8013941	5865580		73.2	100	-26.8	30.0
HFPO-DA	AveID	1.122	1.107		98.7	100	-1.3	40.0
R-PSDCA	Ave	61173147	64409390		105	100	5.3	30.0
Hydro-EVE Acid	Ave	77751106	79997680		103	100	2.9	30.0
Hydro-PS Acid	Ave	32149356	31603760		98.3	100	-1.7	30.0
Perfluoroheptanoic acid	L2ID		1.139		106	100	5.6	40.0
PFECA G	Ave	8991128	7899120		87.9	100	-12.1	30.0
PFO4DA	Ave	8135916	8545940		105	100	5.0	30.0
EVE Acid	Ave	59029232	55393120		93.8	100	-6.2	30.0
PS Acid	Ave	14460393	13881880		96.0	100	-4.0	30.0
PFO5DA	Ave	7110559	5792680		81.5	100	-18.5	50.0
13C3 HFPO-DA	Ave	9494636	7347352		193	250	-22.6	50.0
13C4 PFHpA	Ave	36089861	31077124		215	250	-13.9	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_012.d  
 Lims ID: CCV L7 (433)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 21-Feb-2021 04:06:17 ALS Bottle#: 12 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (433)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 07:34:53 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1643

First Level Reviewer: fariasa Date: 22-Feb-2021 07:34:39

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.535	3.535	0.0		1288727	0.1058		106	57.0	M
2 R-EVE										M
405.00 > 217.00	6.229	6.229	0.0		552383	0.0937		93.7	7533	M
3 R-PSDA										M
440.90 > 241.00	6.289	6.289	0.0		237019	0.0814		81.4	3331	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.369	6.369	0.0		806794	0.0957		95.7	12875	M
23 PMPA										
229.00 > 185.00	6.568	6.568	0.0		2181833	0.0890		89.0	1324	
5 NVHOS										
297.00 > 135.00	6.994	6.994	0.0		772790	0.0817		81.7	11337	
6 PFO2HxA										
245.00 > 85.00	7.620	7.620	0.0		1679992	0.0937		93.7	9174	
22 PEPA										
278.90 > 234.90	8.189	8.189	0.0		831227	0.0791		79.1	1924	
7 PES										
314.90 > 135.00	8.459	8.459	0.0		3241147	0.0882		88.2	76597	
8 PFECA B										
295.00 > 201.00	8.715	8.715	0.0		1288480	0.0861		86.1	24178	
9 PFO3OA										
310.90 > 85.00	8.957	8.957	0.0		586558	0.0732		73.2	7487	
11 HPFO-DA										
285.00 > 169.00	9.048	9.048	0.0	1.000	813441	0.0987		98.7	22041	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.048	9.048	0.0		1836838	0.1935		77.4	49415	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.396	9.396	0.0		6440939	0.1053		105	124740	
13 Hydro-EVE Acid										
427.00 > 282.90	9.428	9.428	0.0		7999768	0.1029		103	91713	
D 14 13C4 PFHpA										
367.00 > 322.00	9.461	9.461	0.0		7769281	0.2153		86.1	148773	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.461	9.461	0.0	1.000	3539838	0.1056	Target=0.00	106	9366	
363.00 > 169.00	9.461	9.461	0.0	1.000	1010203		3.50(0.00-0.00)		12911	
15 Hydro-PS Acid										
463.00 > 262.90	9.461	9.461	0.0		3160376	0.0983		98.3	69567	
17 PFECA G										
378.90 > 184.90	9.591	9.591	0.0		789912	0.0879		87.9	20969	
18 PFO4DA										
376.90 > 85.00	9.705	9.705	0.0		854594	0.1050		105	14330	
20 EVE Acid										
407.00 > 262.90	9.791	9.791	0.0		5539312	0.0938		93.8	117659	
19 PS Acid										
443.00 > 146.90	9.791	9.791	0.0		1388188	0.0960		96.0	29695	
21 TAF										
442.90 > 85.00	10.296	10.296	0.0		579268	0.0815		81.5	1706	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00420

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_012.d

Injection Date: 21-Feb-2021 04:06:17

Instrument ID: A12

Lims ID: CCV L7 (433)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 12

Worklist Smp#: 1

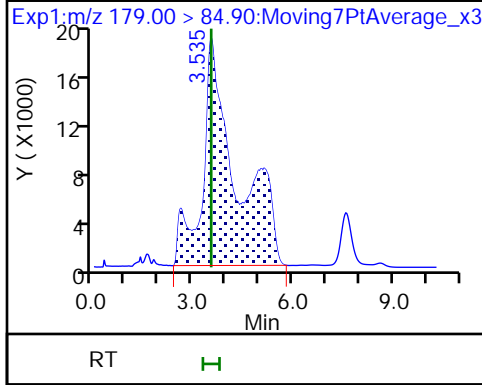
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

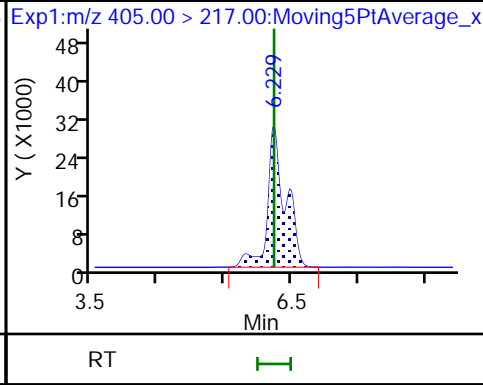
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

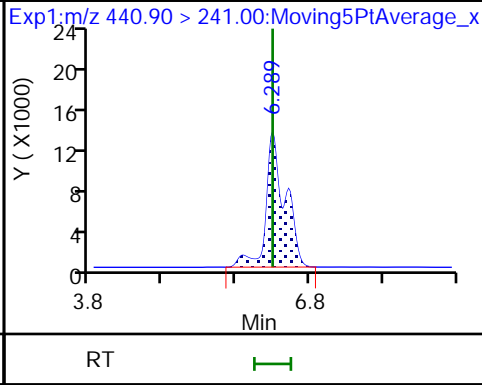
1 PFMOAA (M)



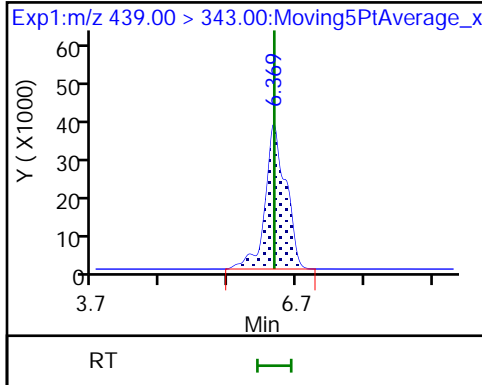
2 R-EVE (M)



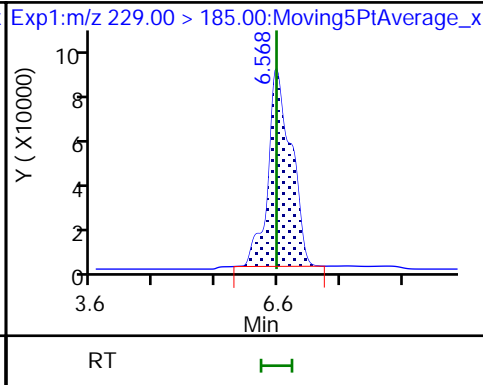
3 R-PSDA (M)



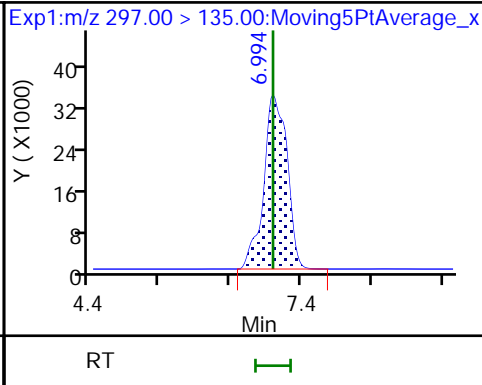
4 Hydrolyzed PSDA (M)



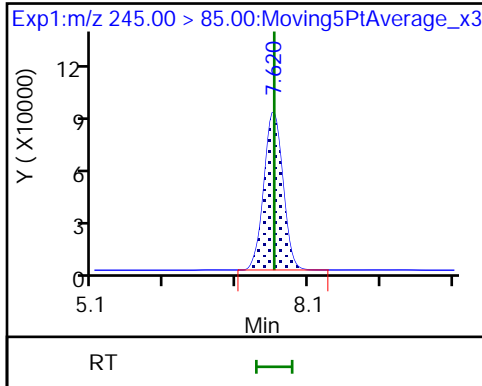
23 PMPA



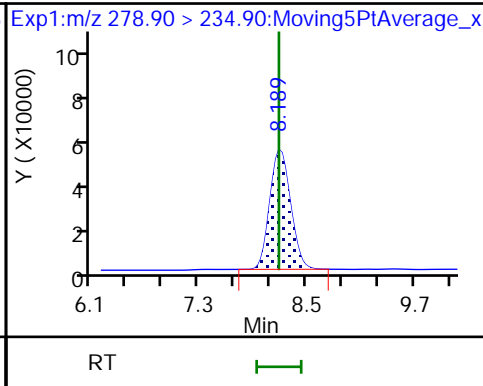
5 NVHOS



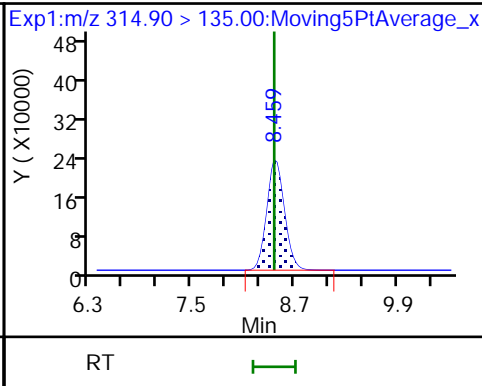
6 PFO2HxA



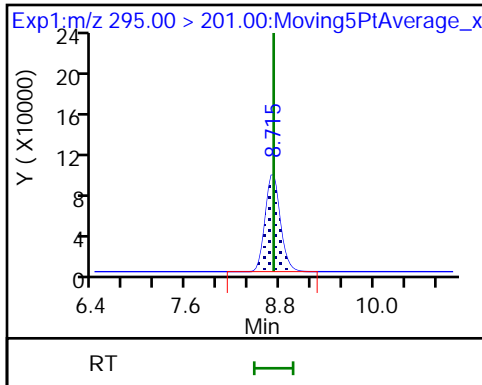
22 PEPA



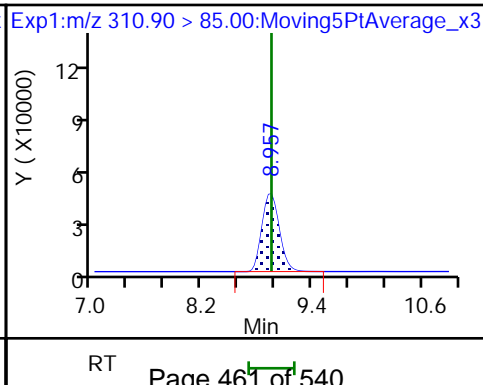
7 PES



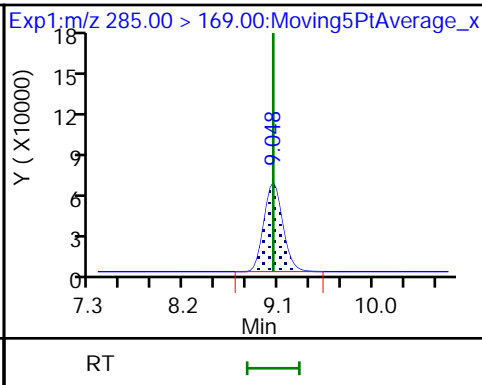
8 PFECA B



9 PFO3OA



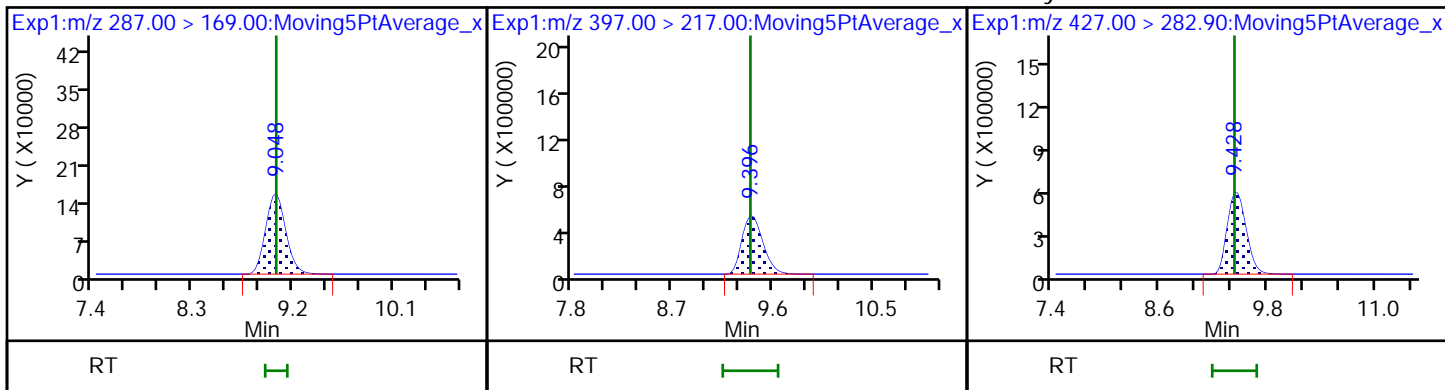
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

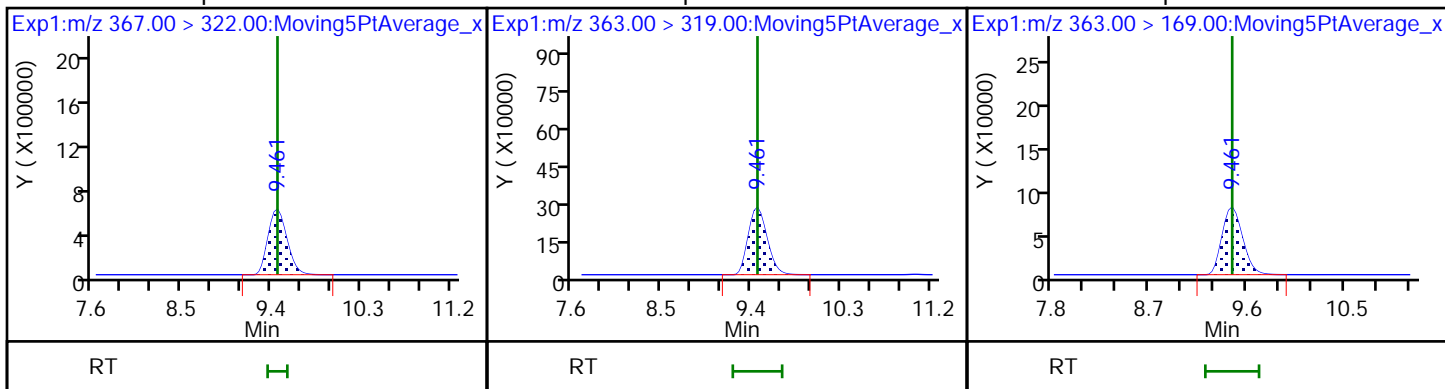
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

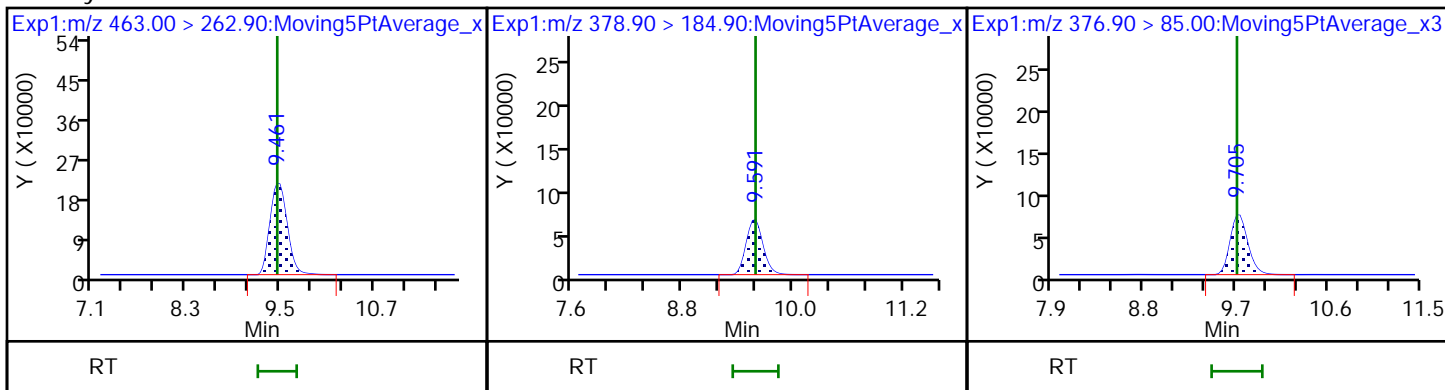
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

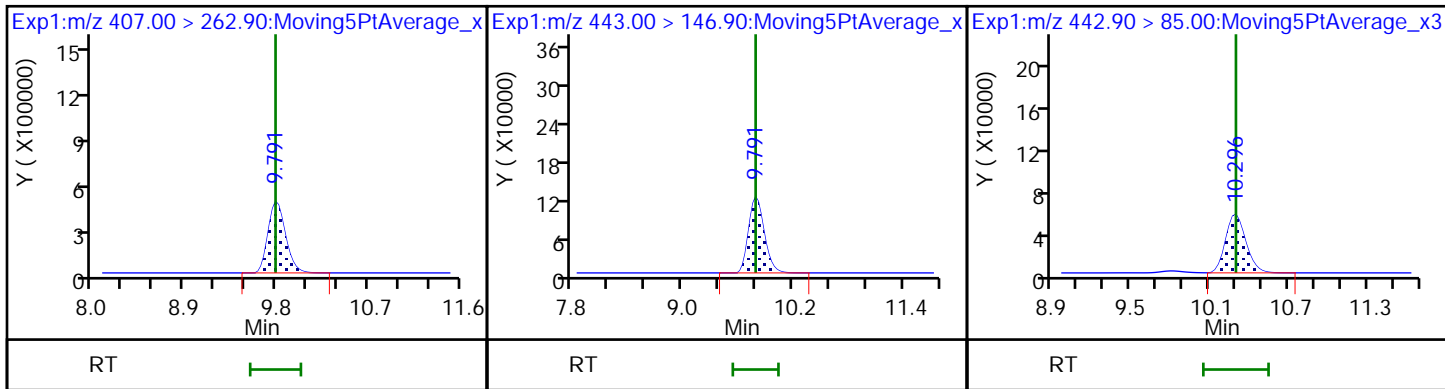
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

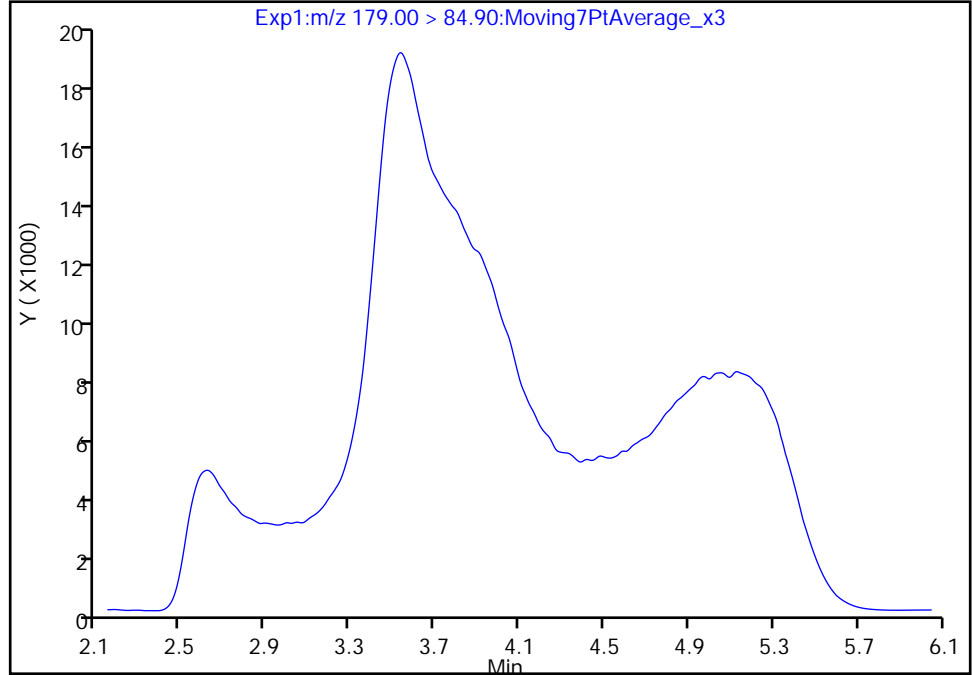
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_012.d  
Injection Date: 21-Feb-2021 04:06:17 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

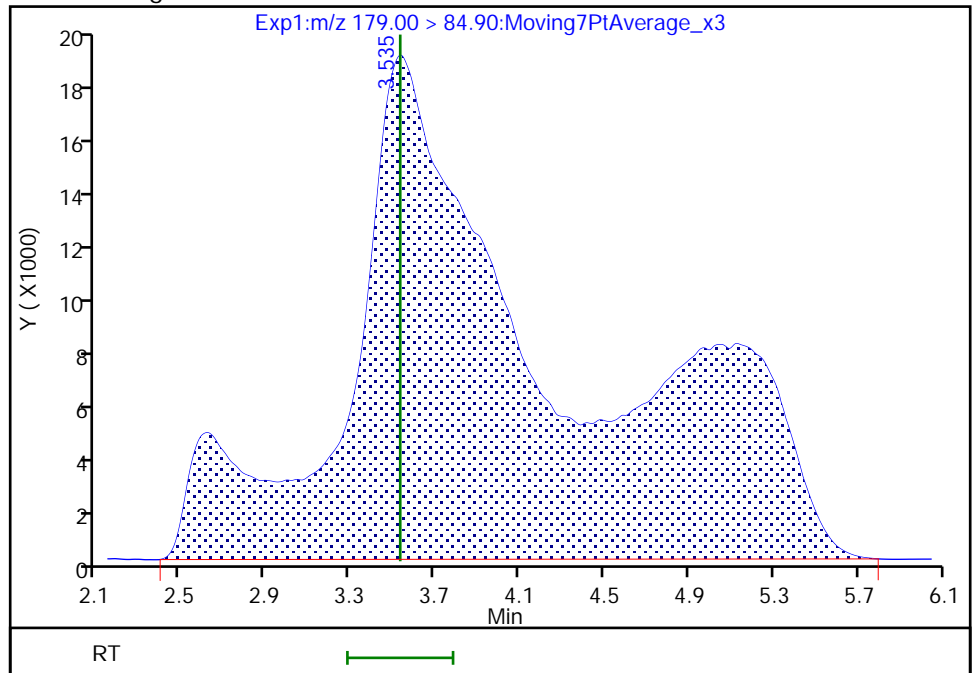
Not Detected  
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.53  
Area: 1288727  
Amount: 0.105783  
Amount Units: ng/ml



Reviewer: contrerases, 21-Feb-2021 09:29:24  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

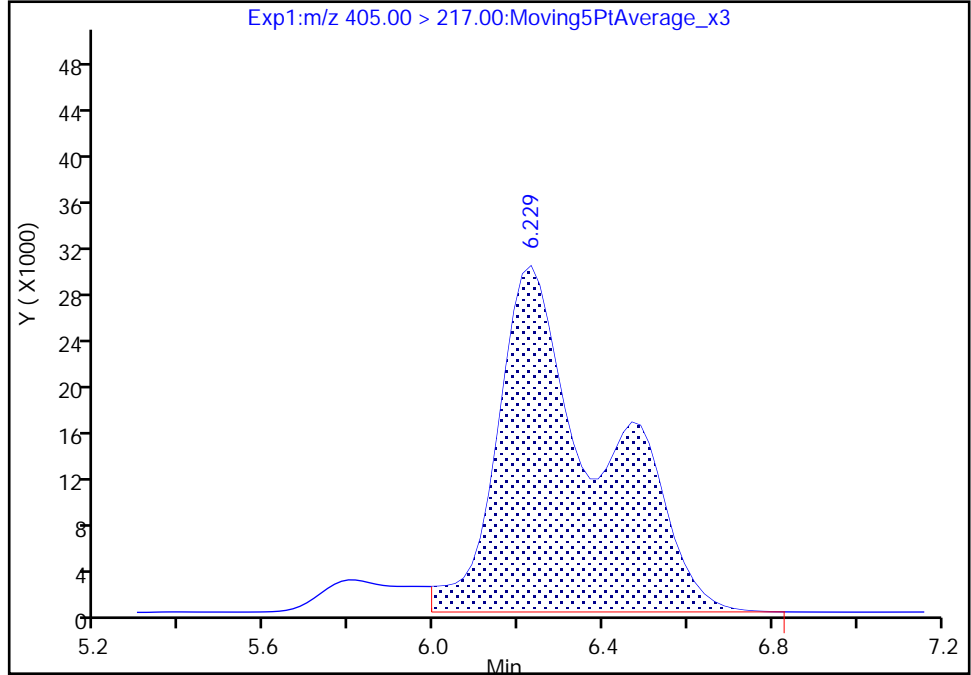
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Injection Date: 21-Feb-2021 04:06:17 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

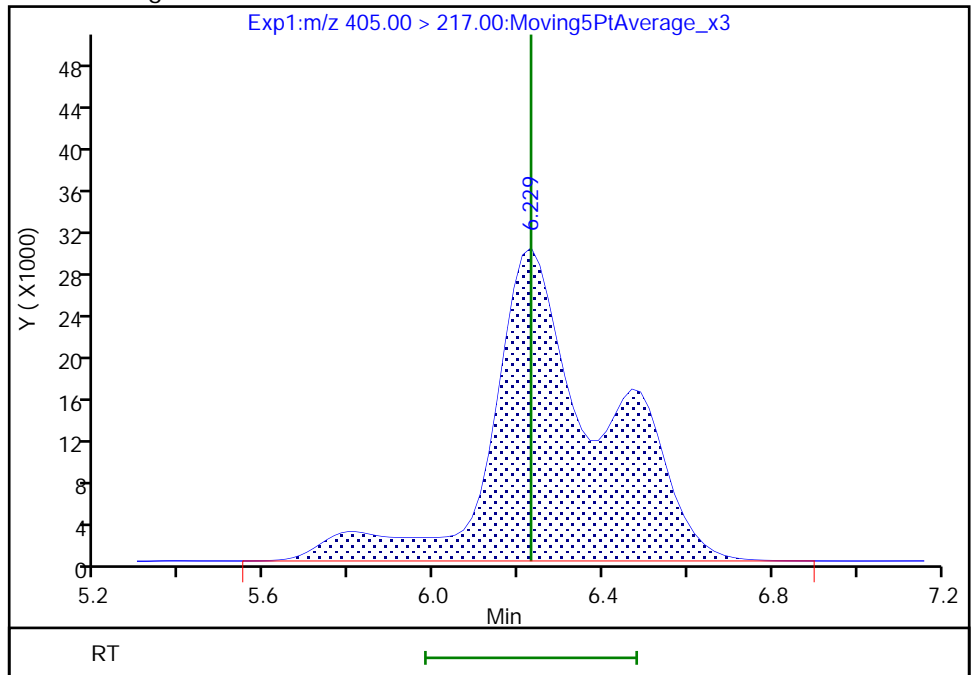
RT: 6.23  
Area: 510608  
Amount: 0.086582  
Amount Units: ng/ml

Processing Integration Results



RT: 6.23  
Area: 552383  
Amount: 0.093665  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

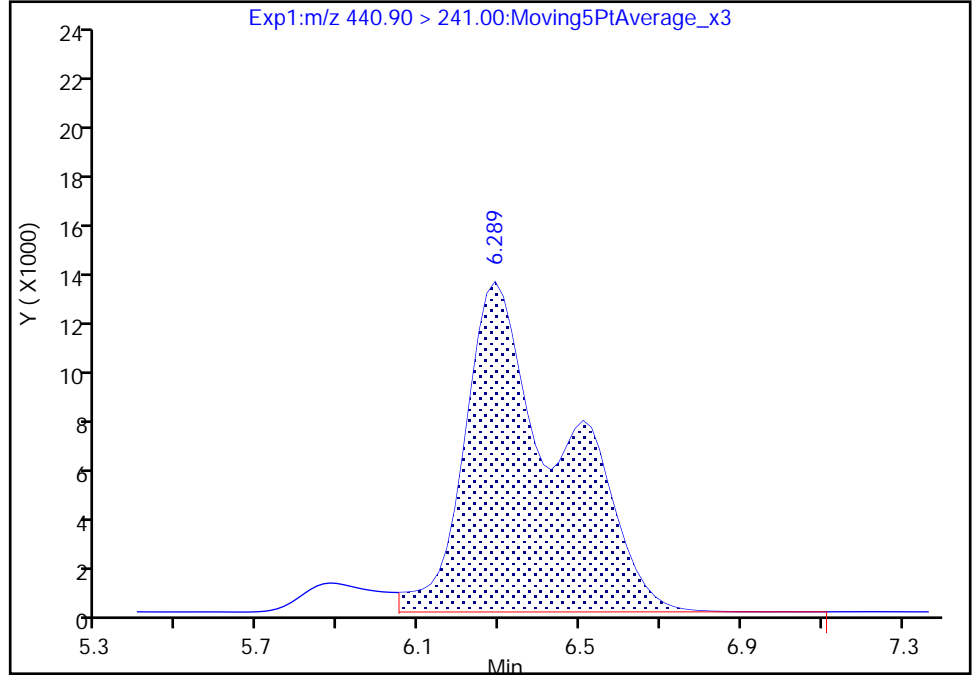
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_012.d  
Injection Date: 21-Feb-2021 04:06:17 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

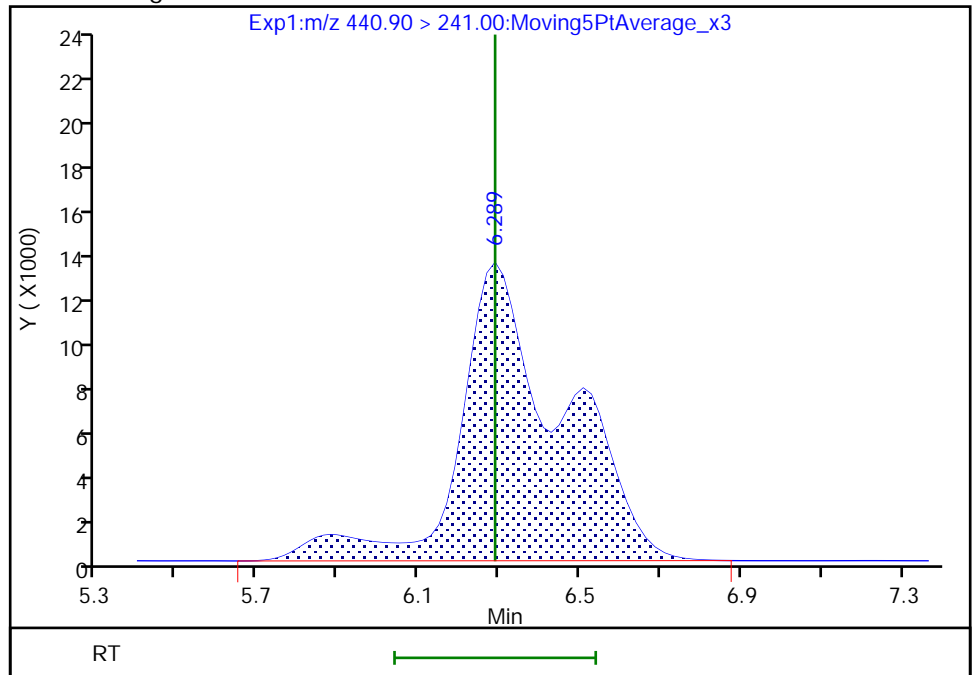
RT: 6.29  
Area: 221941  
Amount: 0.076179  
Amount Units: ng/ml

Processing Integration Results



RT: 6.29  
Area: 237019  
Amount: 0.081354  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

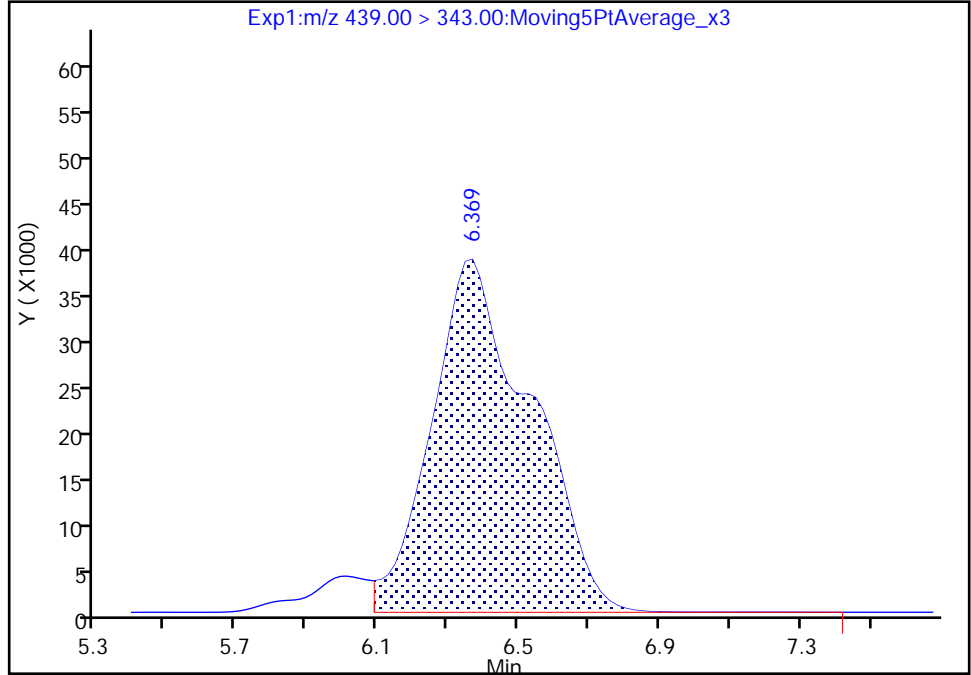
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_012.d  
Injection Date: 21-Feb-2021 04:06:17 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

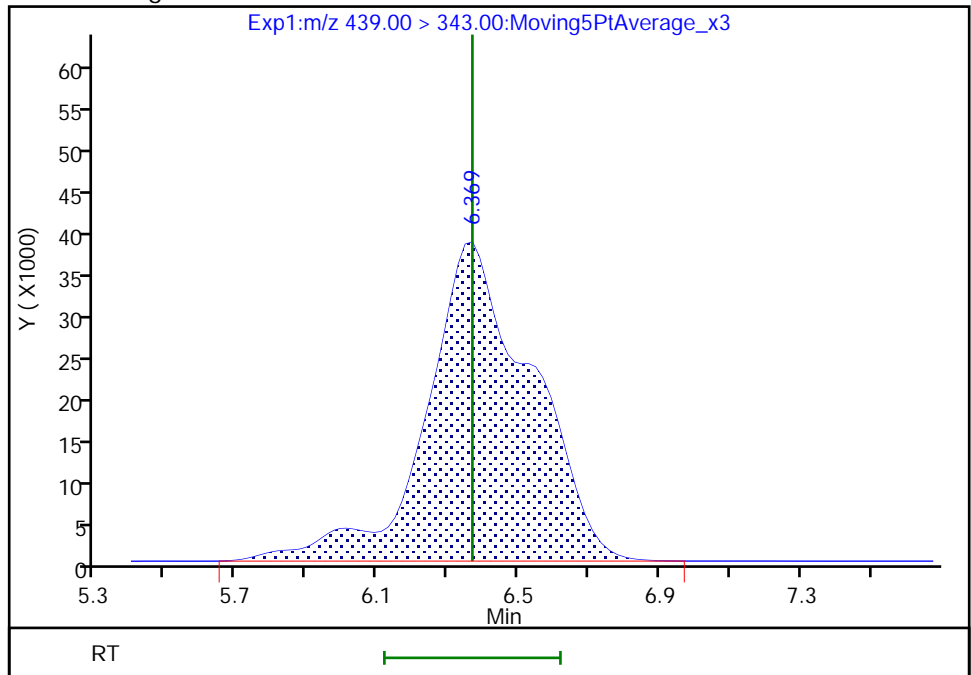
RT: 6.37  
Area: 758293  
Amount: 0.089969  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 806794  
Amount: 0.095723  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-463813/14 Calibration Date: 02/21/2021 07:55  
 Instrument ID: A12 Calib Start Date: 02/18/2021 18:48  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/18/2021 22:37  
 Lab File ID: 2021.02.20\_A12\_TB3\_B\_025.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12182773	12624760		104	100	3.6	30.0
R-EVE	Ave	5897414	5615060		95.2	100	-4.8	50.0
R-PSDA	Ave	2913425	2438030		83.7	100	-16.3	50.0
Hydrolyzed PSDA	Ave	8428425	7954260		94.4	100	-5.6	50.0
PMPA	Ave	24516176	22100610		90.1	100	-9.9	30.0
NVHOS	Ave	9455950	8204410		86.8	100	-13.2	30.0
PFO2HxA	Ave	17928989	17584170		98.1	100	-1.9	30.0
PEPA	Ave	10509422	8660230		82.4	100	-17.6	30.0
PES	Ave	36751915	32485710		88.4	100	-11.6	30.0
PFECA B	Ave	14966609	13618290		91.0	100	-9.0	30.0
PFO3OA	Ave	8013941	6794830		84.8	100	-15.2	30.0
HFPO-DA	AveID	1.122	1.168		104	100	4.1	40.0
R-PSDCA	Ave	61173147	68970580		113	100	12.7	30.0
Hydro-EVE Acid	Ave	77751106	85444410		110	100	9.9	30.0
Hydro-PS Acid	Ave	32149356	31379530		97.6	100	-2.4	30.0
Perfluoroheptanoic acid	L2ID		1.078		99.9	100	-0.1	40.0
PFECA G	Ave	8991128	8571350		95.3	100	-4.7	30.0
PFO4DA	Ave	8135916	8273450		102	100	1.7	30.0
EVE Acid	Ave	59029232	60002120		102	100	1.6	30.0
PS Acid	Ave	14460393	14392370		99.5	100	-0.5	30.0
PFO5DA	Ave	7110559	6167400		86.7	100	-13.3	50.0
13C3 HFPO-DA	Ave	9494636	7329792		193	250	-22.8	50.0
13C4 PFHpA	Ave	36089861	31900532		221	250	-11.6	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_025.d  
 Lims ID: CCV L7 (433)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 21-Feb-2021 07:55:09 ALS Bottle#: 25 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (433)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:43:48 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld

Date: 22-Feb-2021 08:43:48

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.957	3.535	0.422		1262476	0.1036		104	101	M
2 R-EVE										M
405.00 > 217.00	6.327	6.229	0.098		561506	0.0952		95.2	7491	M
3 R-PSDA										
440.90 > 241.00	6.387	6.289	0.098		243803	0.0837		83.7	4105	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.447	6.369	0.078		795426	0.0944		94.4	15000	
23 PMPA										
229.00 > 185.00	6.661	6.568	0.093		2210061	0.0901		90.1	1520	
5 NVHOS										
297.00 > 135.00	7.063	6.994	0.069		820441	0.0868		86.8	15826	
6 PFO2HxA										
245.00 > 85.00	7.647	7.620	0.027		1758417	0.0981		98.1	11140	
22 PEPA										
278.90 > 234.90	8.223	8.189	0.034		866023	0.0824		82.4	1764	
7 PES										
314.90 > 135.00	8.489	8.459	0.030		3248571	0.0884		88.4	79290	
8 PFECA B										
295.00 > 201.00	8.741	8.715	0.026		1361829	0.0910		91.0	26377	
9 PFO3OA										
310.90 > 85.00	8.987	8.957	0.030		679483	0.0848		84.8	8869	
11 HPFO-DA										
285.00 > 169.00	9.075	9.048	0.027	1.000	855834	0.1041		104	23753	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.075	9.048	0.027		1832448	0.1930		77.2	50510	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.426	9.396	0.030		6897058	0.1127		113	133611	
13 Hydro-EVE Acid										
427.00 > 282.90	9.459	9.428	0.031		8544441	0.1099		110	84260	
D 14 13C4 PFHpA										
367.00 > 322.00	9.491	9.461	0.030		7975133	0.2210		88.4	152354	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.491	9.461	0.030	1.000	3439346	0.0999	Target=0.00	99.9	6949	
363.00 > 169.00	9.491	9.461	0.030	1.000	1044279		3.29(0.00-0.00)		16002	
15 Hydro-PS Acid										
463.00 > 262.90	9.491	9.461	0.030		3137953	0.0976		97.6	69311	
17 PFECA G										
378.90 > 184.90	9.589	9.591	-0.002		857135	0.0953		95.3	22857	
18 PFO4DA										
376.90 > 85.00	9.732	9.705	0.027		827345	0.1017		102	9986	
20 EVE Acid										
407.00 > 262.90	9.818	9.791	0.027		6000212	0.1016		102	102288	
19 PS Acid										
443.00 > 146.90	9.818	9.791	0.027		1439237	0.0995		99.5	41073	
21 TAF										
442.90 > 85.00	10.323	10.296	0.027		616740	0.0867		86.7	1754	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00420

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_025.d

Injection Date: 21-Feb-2021 07:55:09

Instrument ID: A12

Lims ID: CCV L7 (433)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 25

Worklist Smp#: 14

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

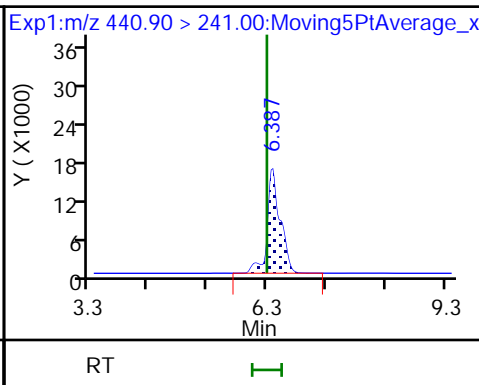
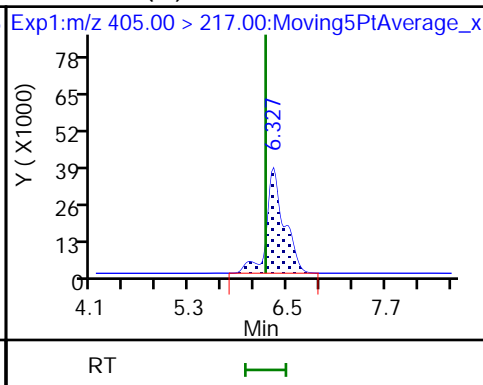
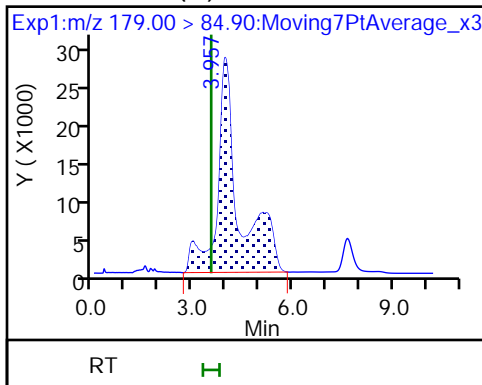
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

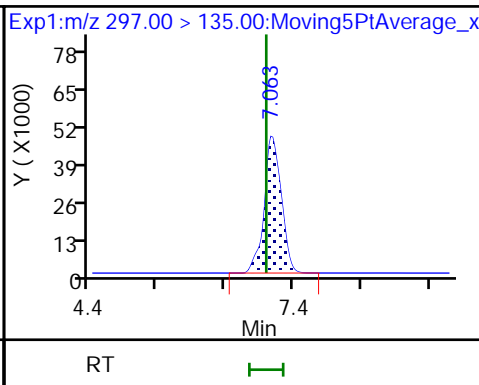
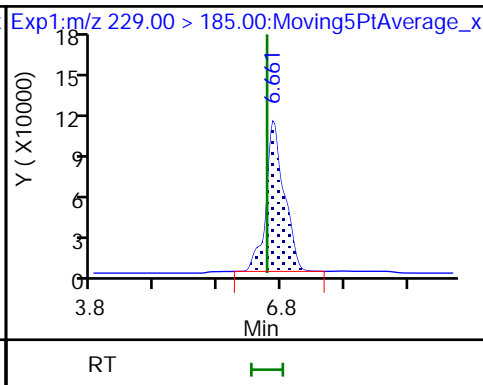
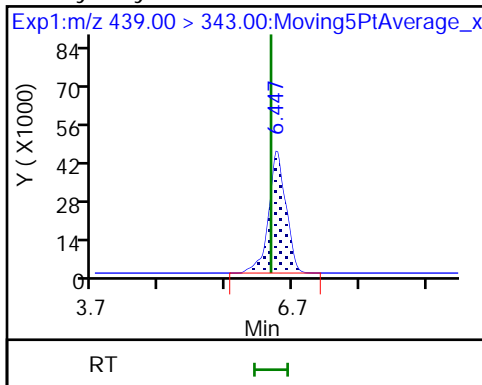
3 R-PSDA



4 Hydrolyzed PSDA

23 PMPA

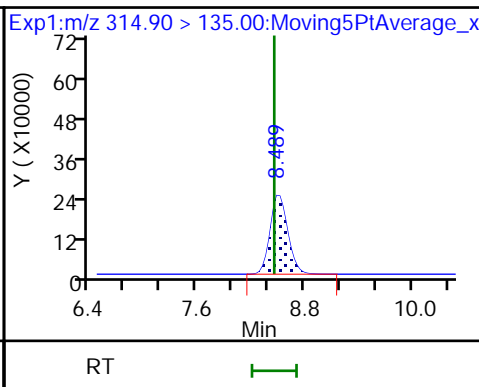
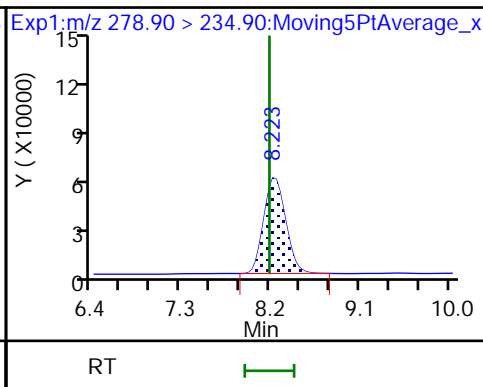
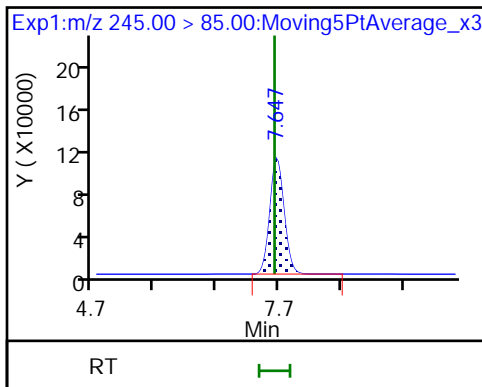
5 NVHOS



6 PFO2HxA

22 PEPA

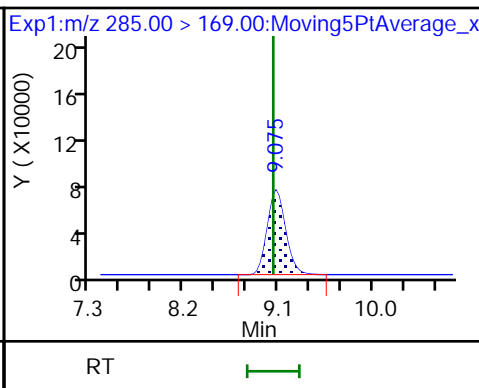
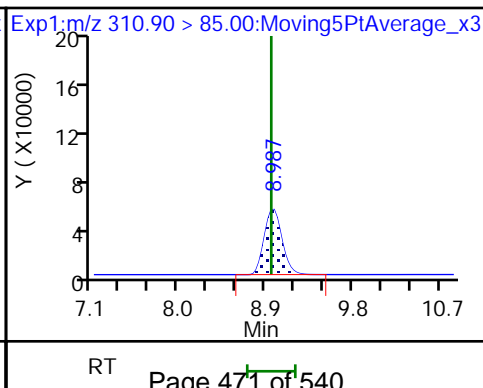
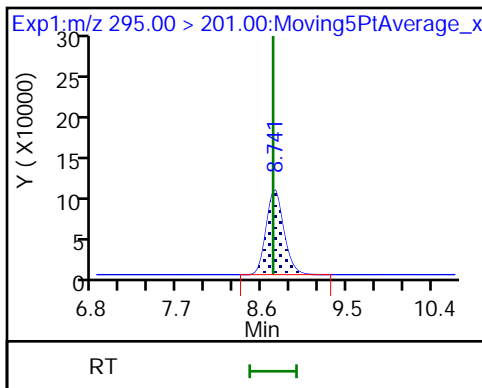
7 PES



8 PFECA B

9 PFO3OA

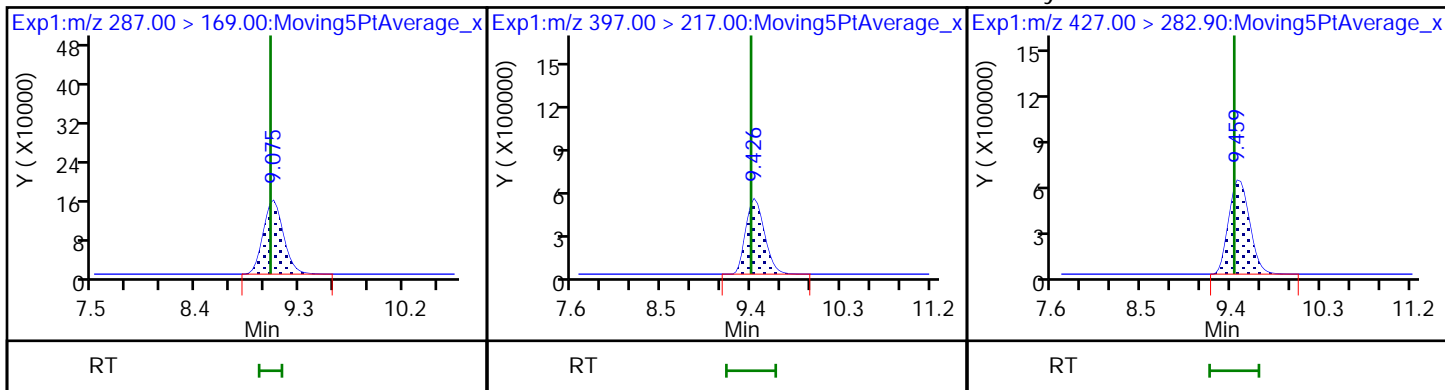
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

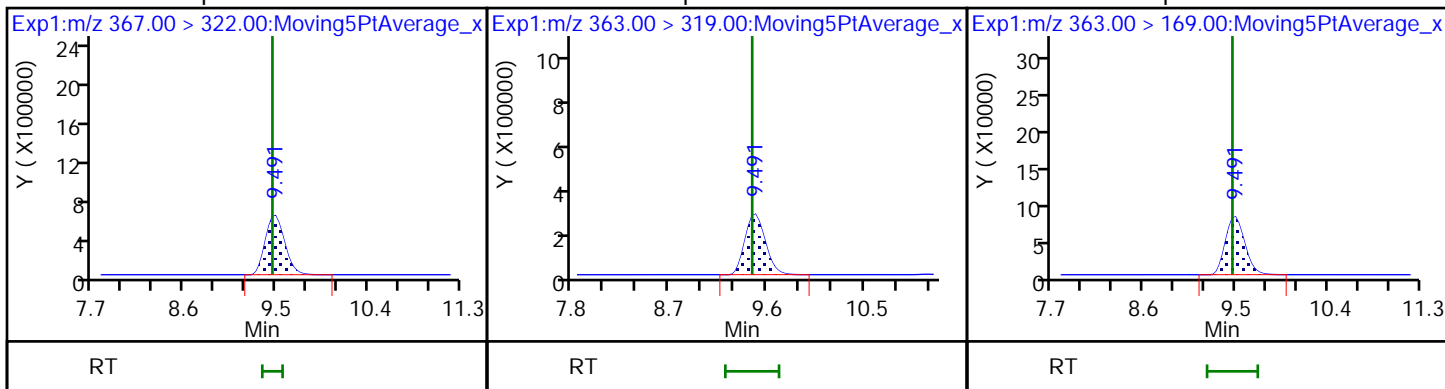
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

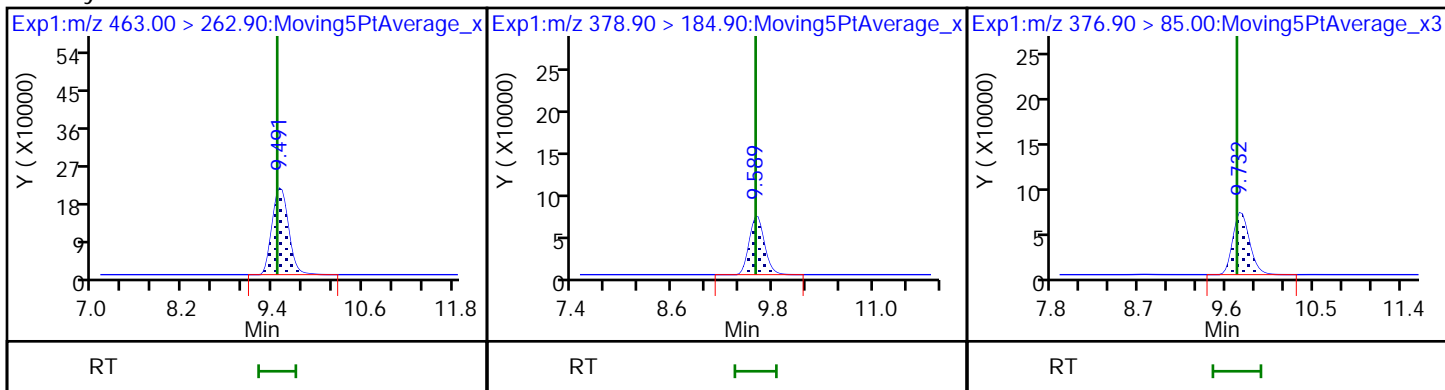
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

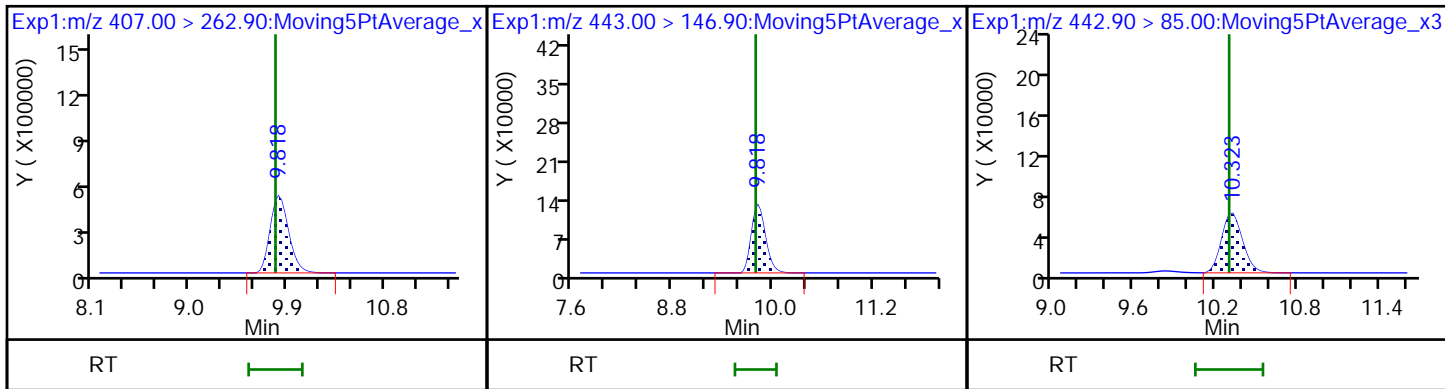
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF







Eurofins TestAmerica, Sacramento

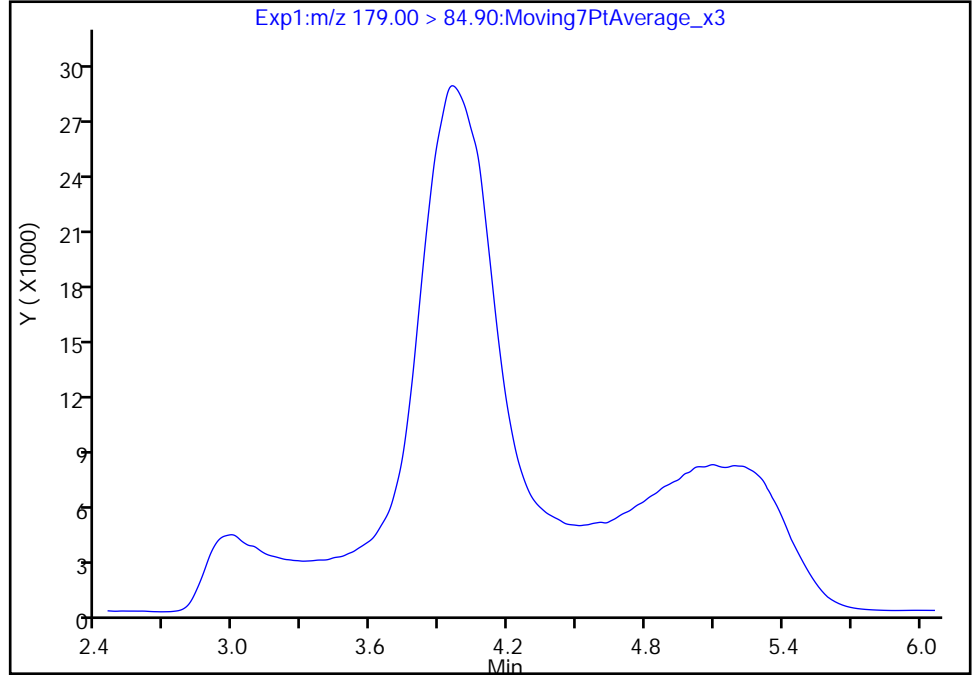
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_025.d  
Injection Date: 21-Feb-2021 07:55:09 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 25 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

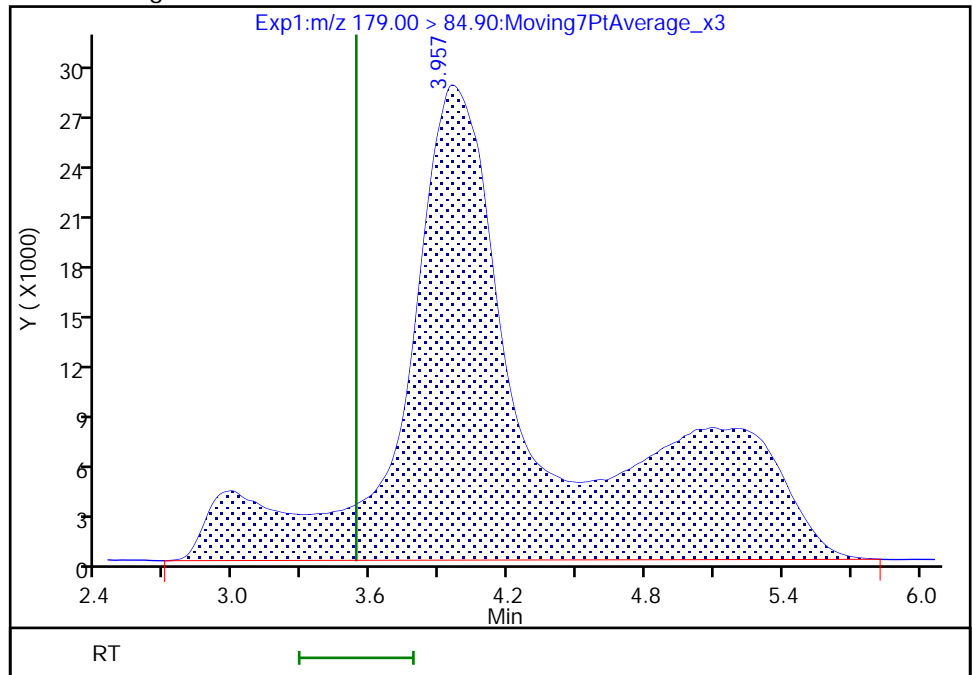
Not Detected  
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 3.96  
Area: 1262476  
Amount: 0.103628  
Amount Units: ng/ml



Reviewer: contrerases, 21-Feb-2021 09:30:17  
Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Sacramento

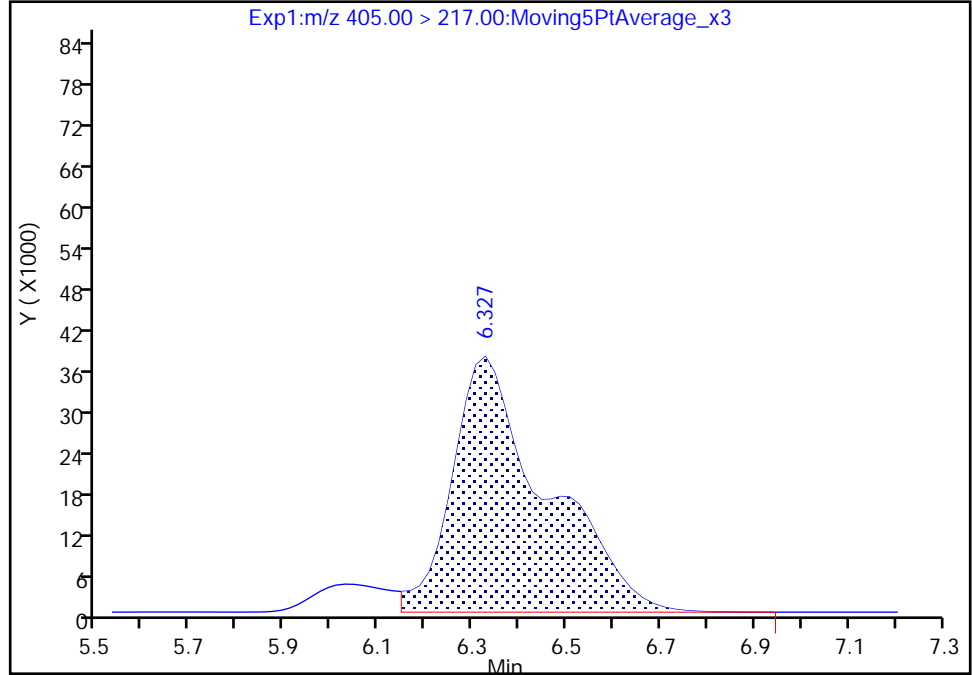
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Injection Date: 21-Feb-2021 07:55:09 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 25 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

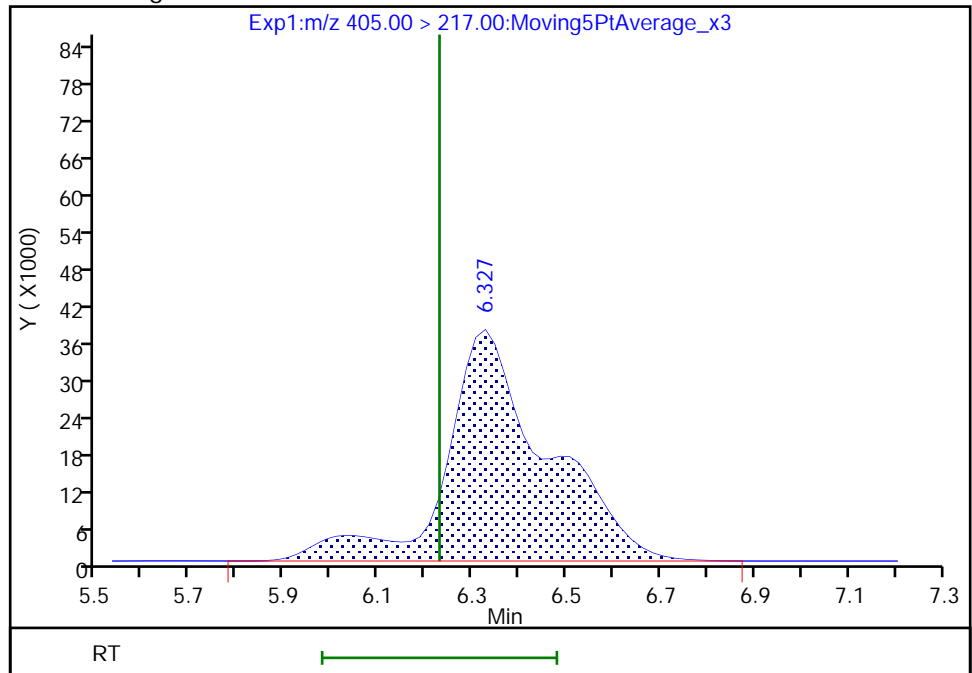
RT: 6.33  
Area: 516564  
Amount: 0.087592  
Amount Units: ng/ml

Processing Integration Results



RT: 6.33  
Area: 561506  
Amount: 0.095212  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:43:38  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 475 of 540

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-463813/24 Calibration Date: 02/21/2021 10:51  
 Instrument ID: A12 Calib Start Date: 02/18/2021 18:48  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/18/2021 22:37  
 Lab File ID: 2021.02.20\_A12\_TB3\_B\_035.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	12182773	12158070		99.8	100	-0.2	30.0
R-EVE	Ave	5897414	5497230		93.2	100	-6.8	50.0
R-PSDA	Ave	2913425	2409950		82.7	100	-17.3	50.0
Hydrolyzed PSDA	Ave	8428425	8038880		95.4	100	-4.6	50.0
PMPA	Ave	24516176	21764740		88.8	100	-11.2	30.0
NVHOS	Ave	9455950	8337660		88.2	100	-11.8	30.0
PFO2HxA	Ave	17928989	17387440		97.0	100	-3.0	30.0
PEPA	Ave	10509422	8291640		78.9	100	-21.1	30.0
PES	Ave	36751915	31944410		86.9	100	-13.1	30.0
PFECA B	Ave	14966609	13201320		88.2	100	-11.8	30.0
PFO3OA	Ave	8013941	7201480		89.9	100	-10.1	30.0
HFPO-DA	AveID	1.122	1.113		99.2	100	-0.8	40.0
R-PSDCA	Ave	61173147	64920750		106	100	6.1	30.0
Hydro-EVE Acid	Ave	77751106	87785730		113	100	12.9	30.0
Perfluoroheptanoic acid	L2ID		1.167		108	100	8.1	40.0
Hydro-PS Acid	Ave	32149356	33027180		103	100	2.7	30.0
PFECA G	Ave	8991128	9036490		101	100	0.5	30.0
PFO4DA	Ave	8135916	9331040		115	100	14.7	30.0
EVE Acid	Ave	59029232	56571440		95.8	100	-4.2	30.0
PS Acid	Ave	14460393	15024260		104	100	3.9	30.0
PFO5DA	Ave	7110559	6265880		88.1	100	-11.9	50.0
13C3 HFPO-DA	Ave	9494636	7400804		195	250	-22.1	50.0
13C4 PFHpA	Ave	36089861	32430084		225	250	-10.1	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_035.d  
 Lims ID: CCV L7 (433)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 21-Feb-2021 10:51:37 ALS Bottle#: 35 Worklist Smp#: 24  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (433)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:44:25 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:44:25

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.060	3.535	0.525		1215807	0.0998		99.8	115	M
2 R-EVE										M
405.00 > 217.00	6.407	6.229	0.178		549723	0.0932		93.2	9410	M
3 R-PSDA										
440.90 > 241.00	6.466	6.289	0.177		240995	0.0827		82.7	5511	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.369	0.177		803888	0.0954		95.4	15840	
23 PMPA										
229.00 > 185.00	6.755	6.568	0.187		2176474	0.0888		88.8	1458	
5 NVHOS										
297.00 > 135.00	7.158	6.994	0.164		833766	0.0882		88.2	16699	
6 PFO2HxA										
245.00 > 85.00	7.737	7.620	0.117		1738744	0.0970		97.0	9241	
22 PEPA										
278.90 > 234.90	8.330	8.189	0.141		829164	0.0789		78.9	1759	
7 PES										
314.90 > 135.00	8.588	8.459	0.129		3194441	0.0869		86.9	80320	
8 PFECA B										
295.00 > 201.00	8.827	8.715	0.112		1320132	0.0882		88.2	34286	
9 PFO3OA										
310.90 > 85.00	9.045	8.957	0.088		720148	0.0899		89.9	9862	
11 HPFO-DA										
285.00 > 169.00	9.158	9.048	0.110	1.000	823654	0.0992		99.2	23325	
D 10 13C3 HFPO-DA										a
287.00 > 169.00	9.158	9.048	0.110		1850201	0.1949		77.9	52262	a

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.523	9.396	0.127		6492075	0.1061		106	125550	
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.428	0.127		8778573	0.1129		113	76950	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.461	0.094		8107521	0.2246		89.9	160536	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.461	0.094	1.000	3784093	0.1081	Target=0.00	108	7312	
363.00 > 169.00	9.555	9.461	0.094	1.000	1116448		3.39(0.00-0.00)		17705	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.461	0.126		3302718	0.1027		103	75438	
17 PFECA G										
378.90 > 184.90	9.674	9.591	0.083		903649	0.1005		101	25397	
18 PFO4DA										
376.90 > 85.00	9.817	9.705	0.112		933104	0.1147		115	13298	
20 EVE Acid										
407.00 > 262.90	9.903	9.791	0.112		5657144	0.0958		95.8	120523	
19 PS Acid										
443.00 > 146.90	9.903	9.791	0.112		1502426	0.1039		104	42712	
21 TAF										
442.90 > 85.00	10.374	10.296	0.078		626588	0.0881		88.1	1839	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

LCTB3\_LLSTD7\_00420

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_035.d

Injection Date: 21-Feb-2021 10:51:37

Instrument ID: A12

Lims ID: CCV L7 (433)

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 35

Worklist Smp#: 24

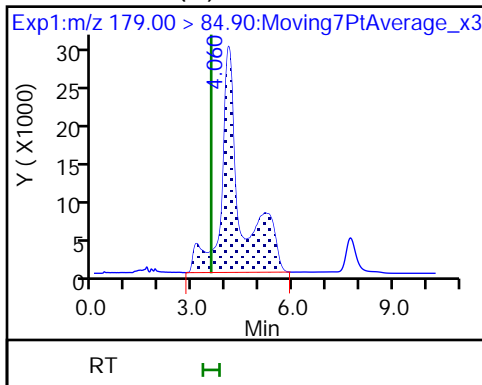
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

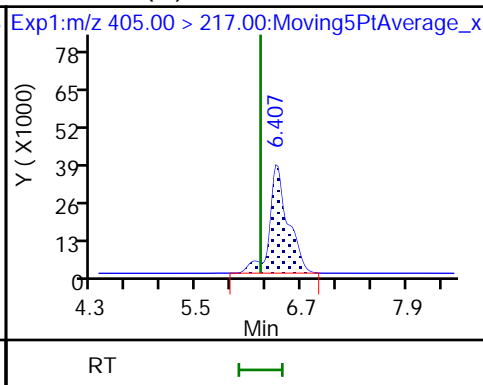
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

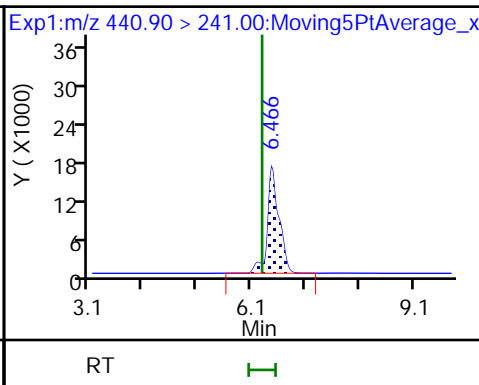
1 PFMOAA (M)



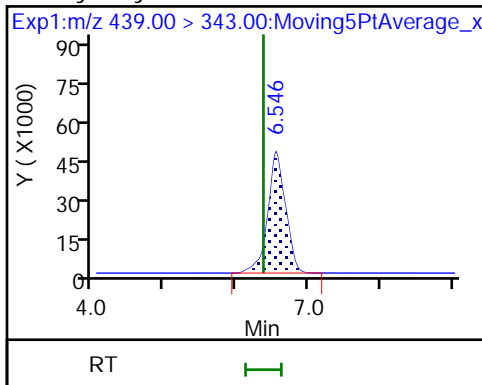
2 R-EVE (M)



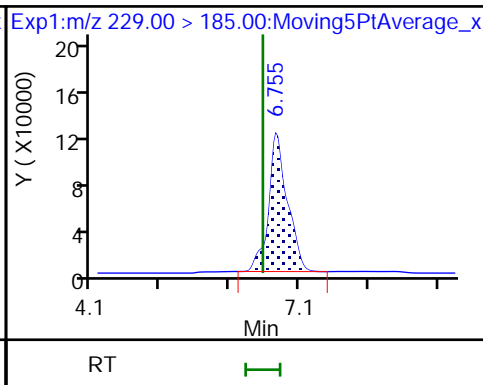
3 R-PSDA



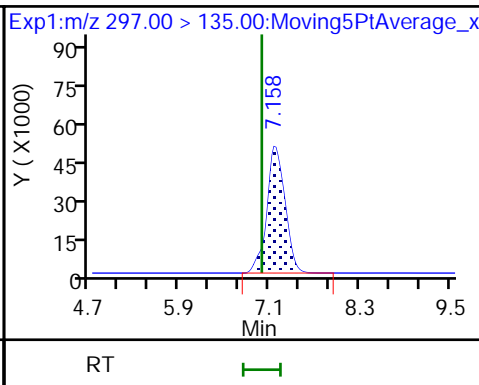
4 Hydrolyzed PSDA



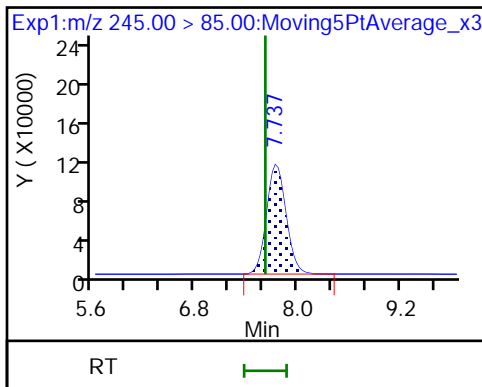
23 PMPA



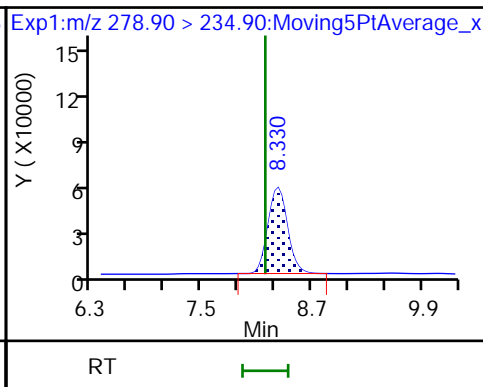
5 NVHOS



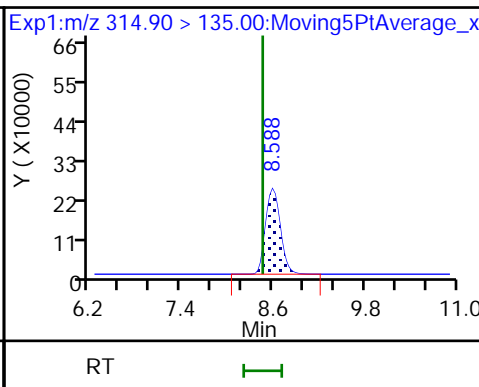
6 PFO2HxA



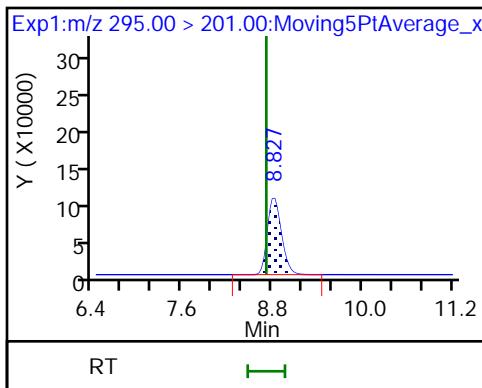
22 PEPA



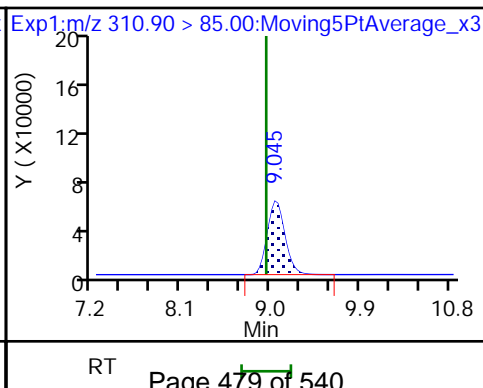
7 PES



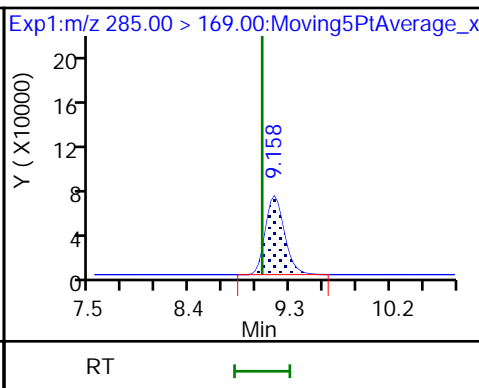
8 PFECA B



9 PFO3OA



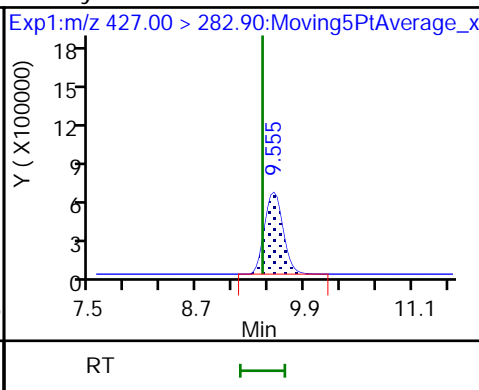
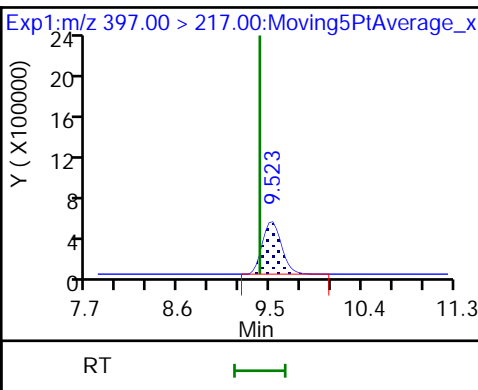
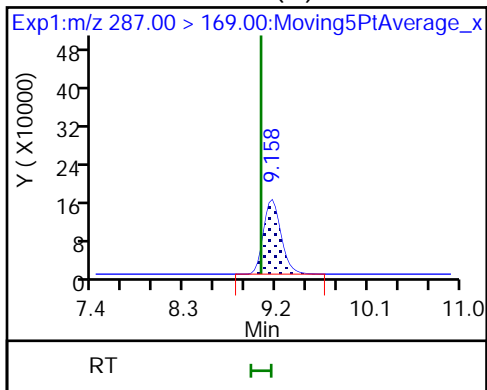
11 HPFO-DA



D 10 13C3 HFPO-DA (M)

12 R-PSDCA

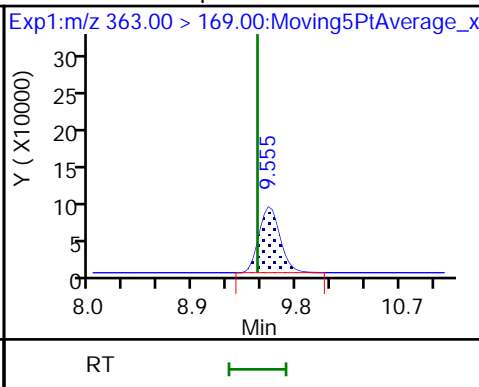
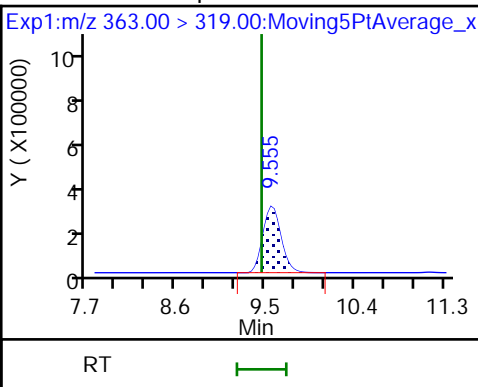
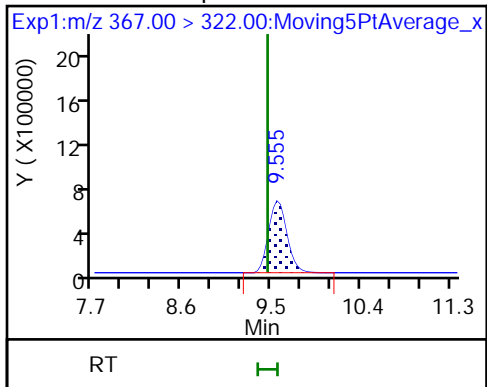
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

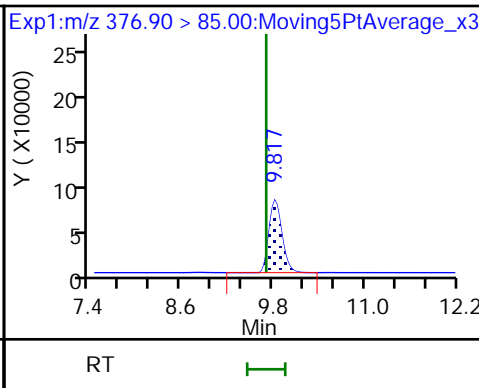
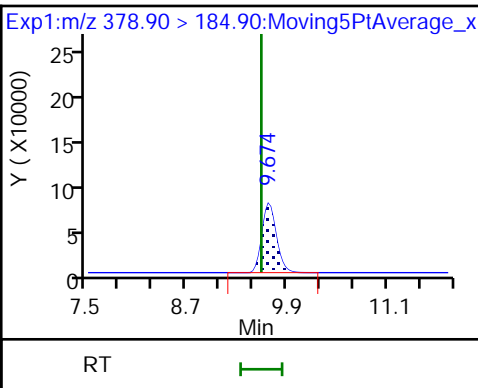
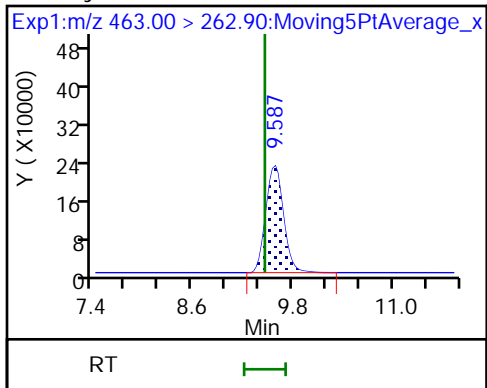
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

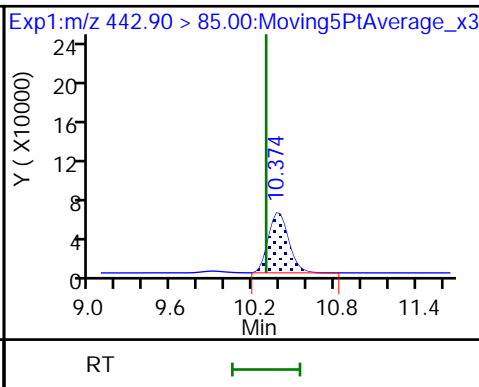
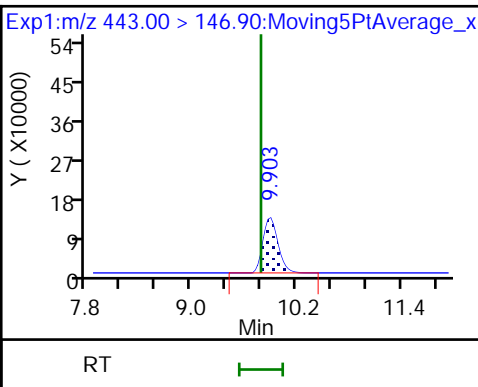
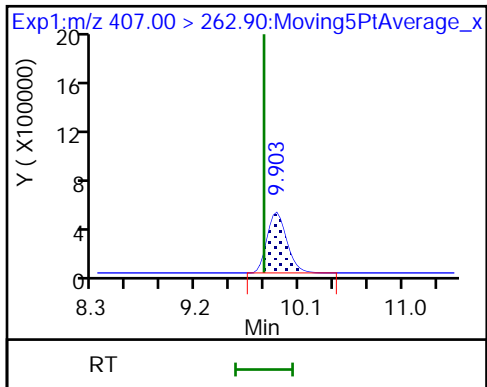
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF







Eurofins TestAmerica, Sacramento

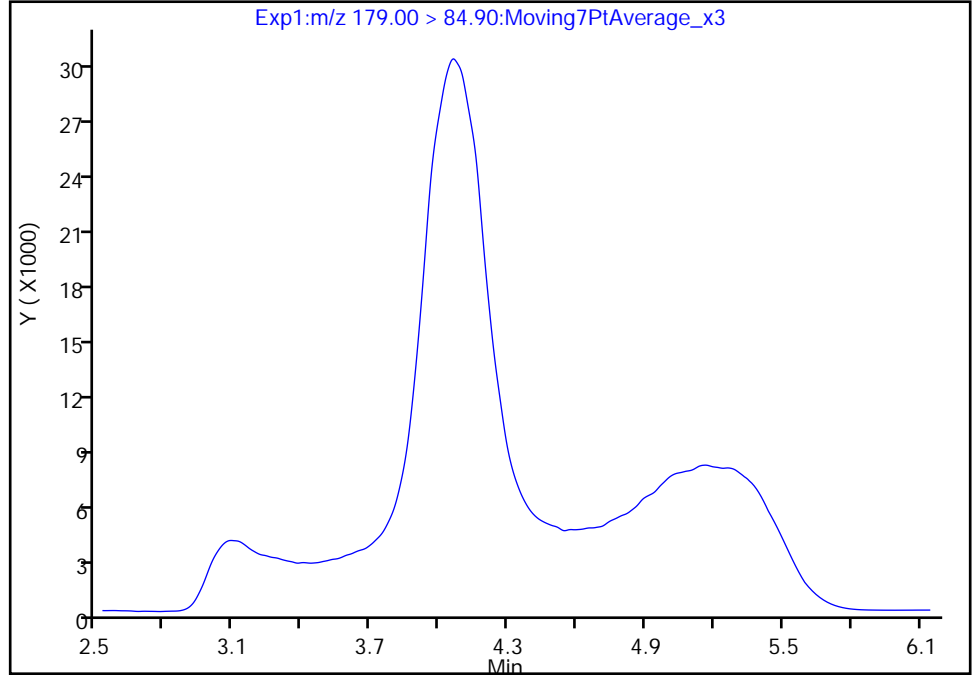
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_035.d  
Injection Date: 21-Feb-2021 10:51:37 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 35 Worklist Smp#: 24  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

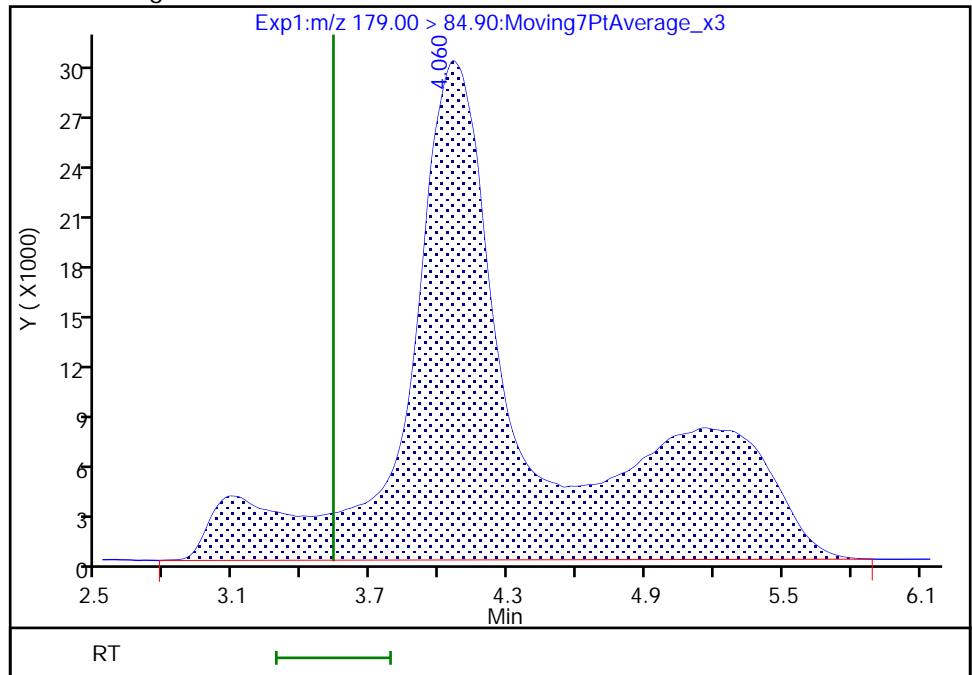
Not Detected  
Expected RT: 3.53

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 1215807  
Amount: 0.099797  
Amount Units: ng/ml



Reviewer: contrerases, 21-Feb-2021 14:17:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 482 of 540

Eurofins TestAmerica, Sacramento

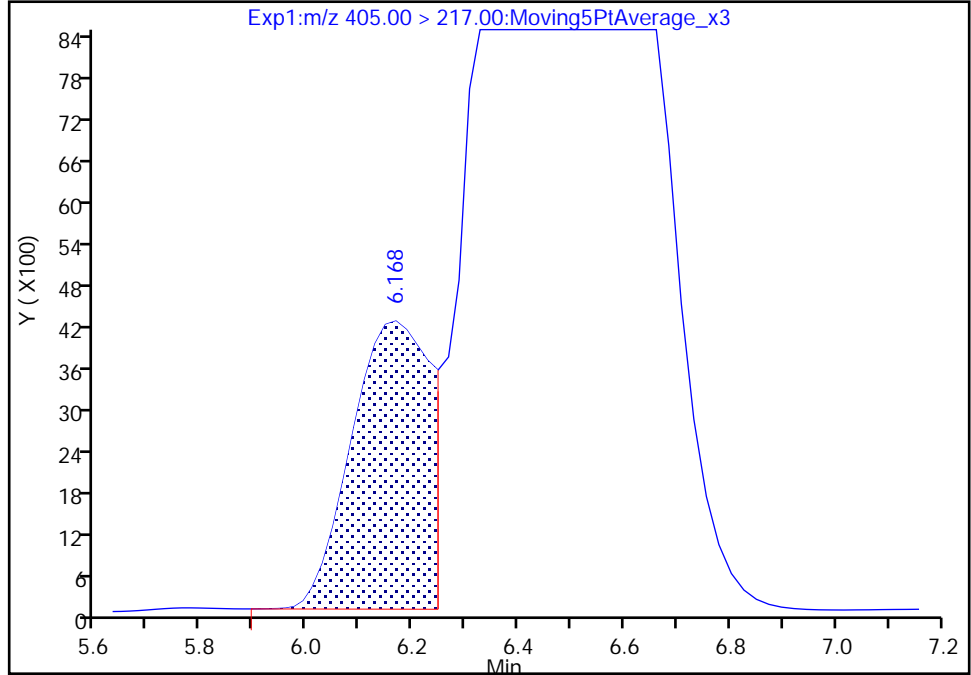
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Injection Date: 21-Feb-2021 10:51:37 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 35 Worklist Smp#: 24  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

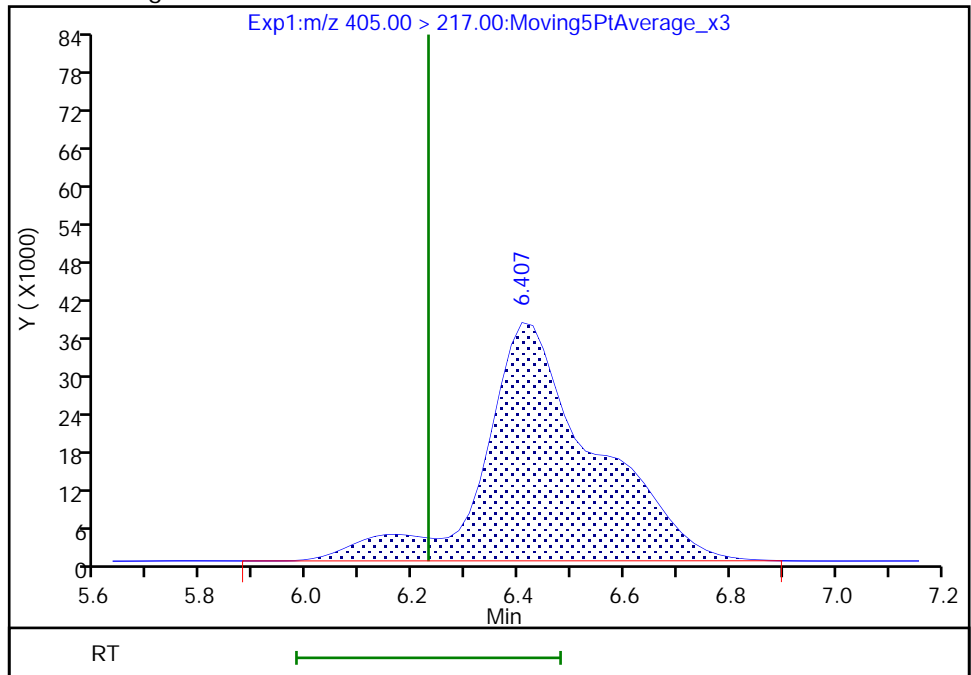
RT: 6.17  
Area: 42280  
Amount: 0.007169  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 549723  
Amount: 0.093214  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

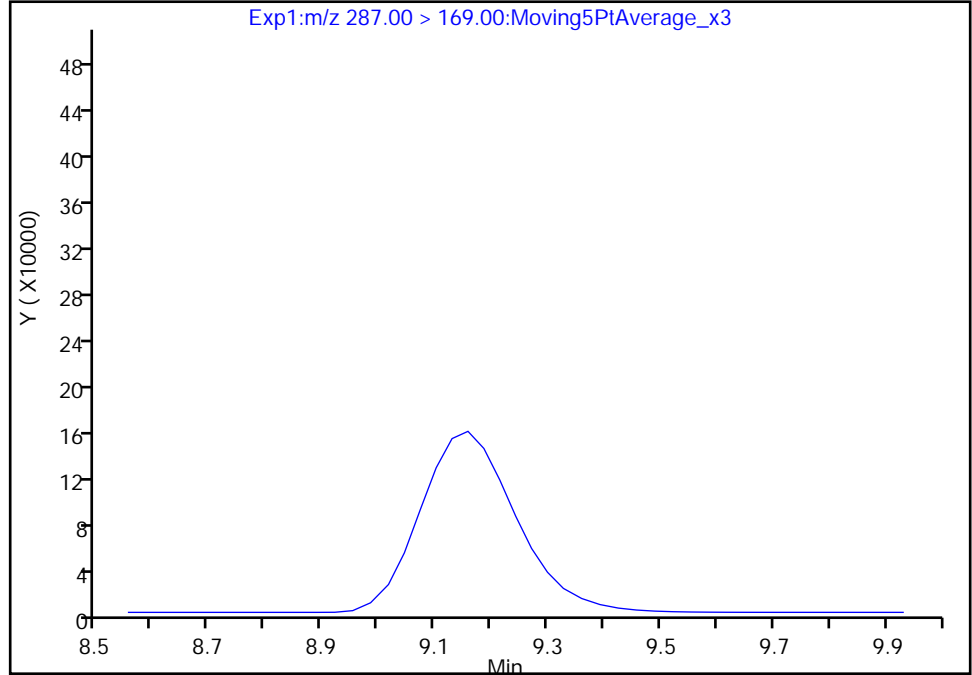
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Injection Date: 21-Feb-2021 10:51:37 Instrument ID: A12  
Lims ID: CCV L7 (433)  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 35 Worklist Smp#: 24  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

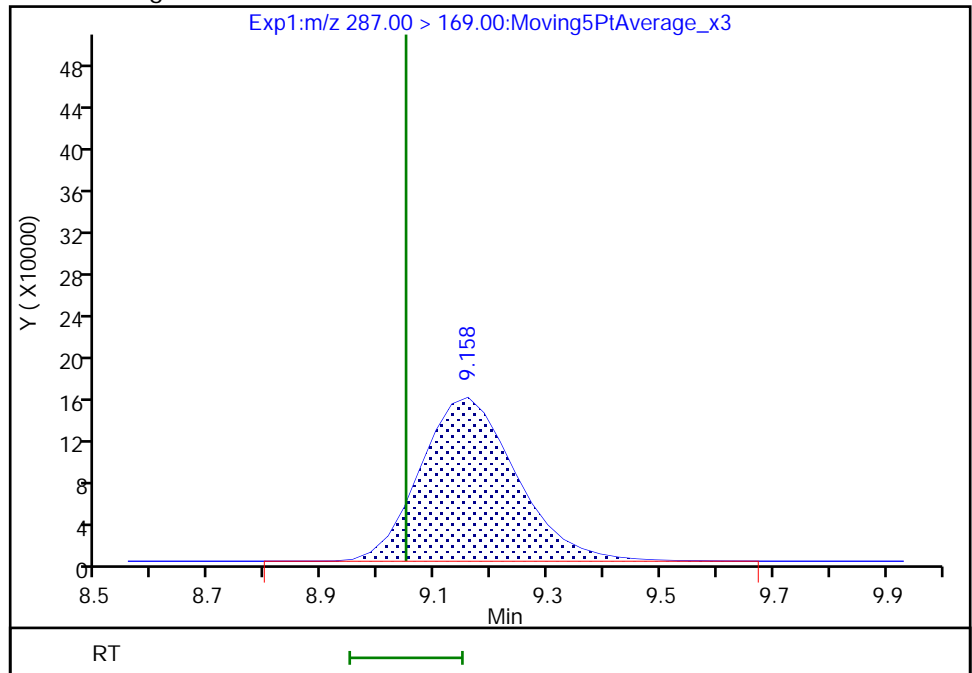
Not Detected  
Expected RT: 9.05

Processing Integration Results



Manual Integration Results

RT: 9.16  
Area: 1850201  
Amount: 0.194868  
Amount Units: ng/ml



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-458886/1-A  
 Matrix: Water Lab File ID: 2021.02.13\_A12\_TB3\_A\_014.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/04/2021 18:51  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/13/2021 10:12  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 461727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_014.d  
 Lims ID: MB 320-458886/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 13-Feb-2021 10:12:41 ALS Bottle#: 14 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-458886/1-a DUE 2/23  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 12:37:29 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 12:37:29  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 PMPA										M
229.00 > 185.00	7.134	6.827	0.307		47321	0.001932			18.6	M
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.215	9.216	-0.001		1945533	0.2314		92.6	54651	
D 14 13C4 PFHpA										
367.00 > 322.00	9.616	9.617	-0.001		12092688	0.2790		112	248403	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_014.d

Injection Date: 13-Feb-2021 10:12:41

Instrument ID: A12

Lims ID: MB 320-458886/1-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 14

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

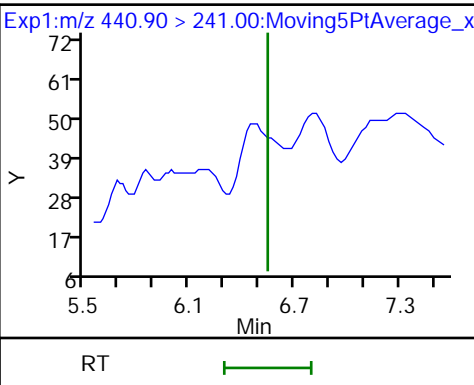
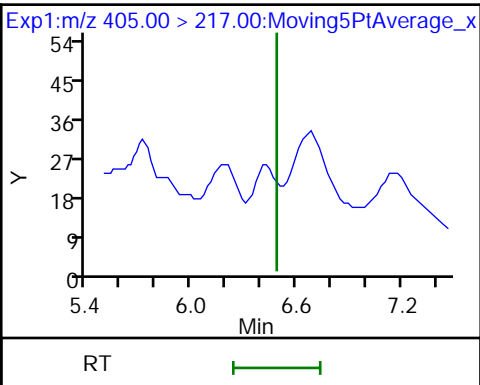
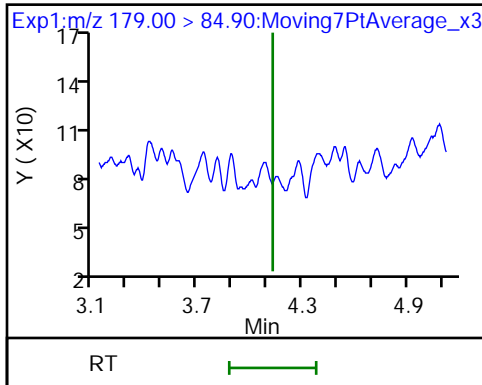
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

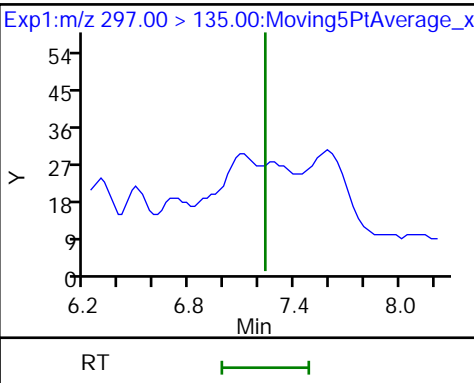
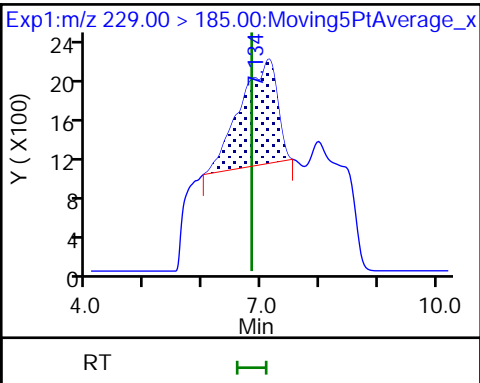
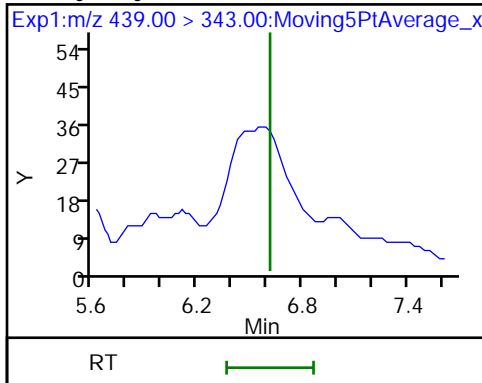
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (M)

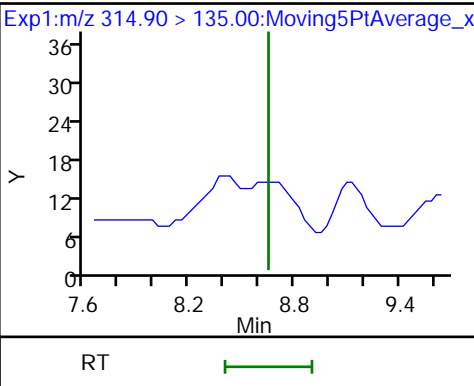
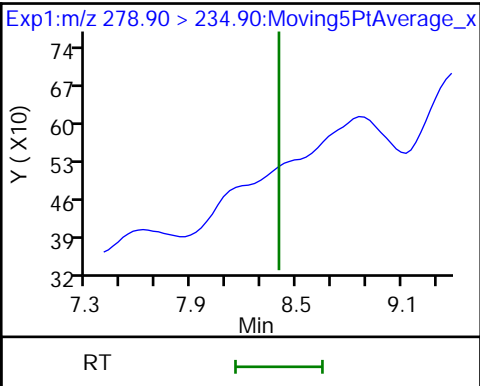
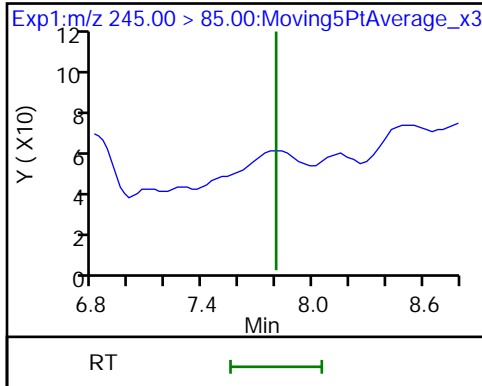
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

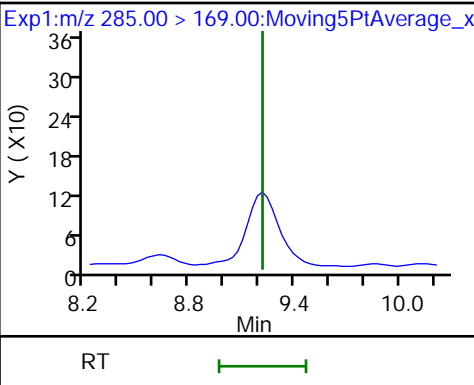
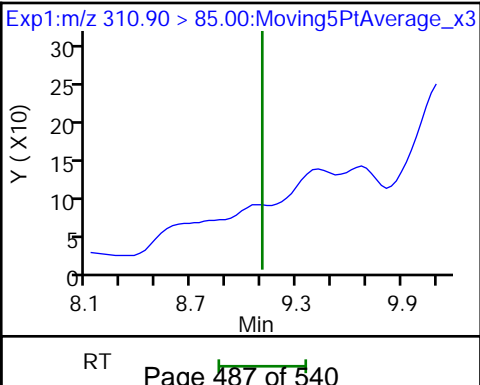
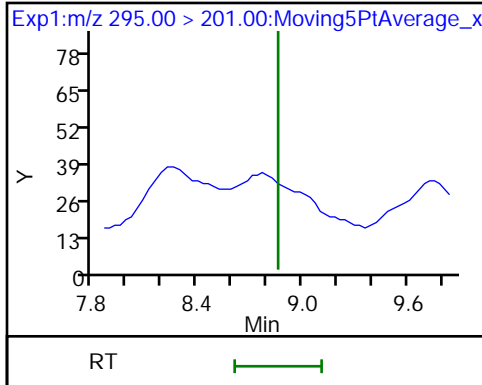
7 PES (ND)



8 PFECA B (ND)

9 PFO3OA (ND)

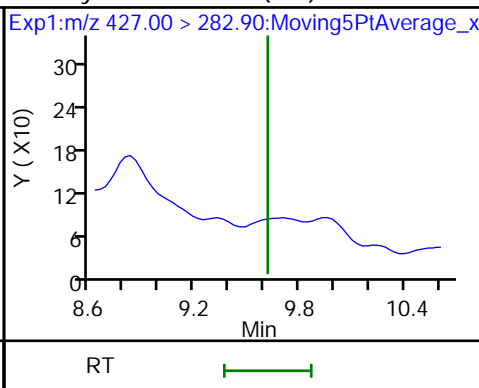
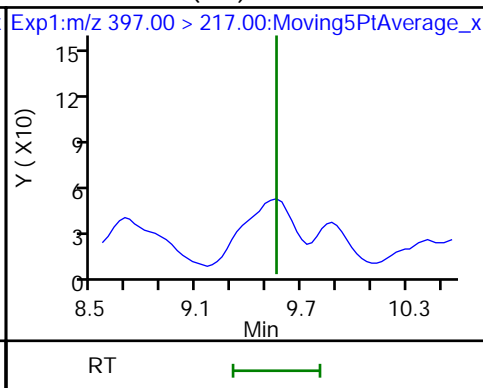
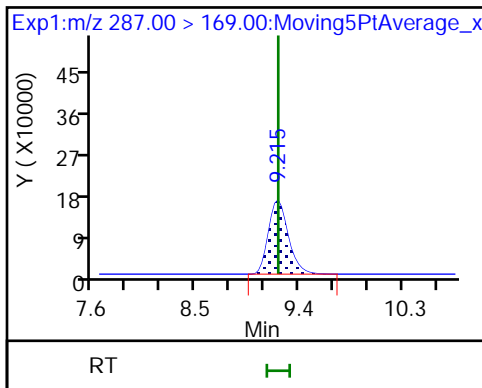
11 HPFO-DA (ND)



D 10 13C3 HFPO-DA

12 R-PSDCA (ND)

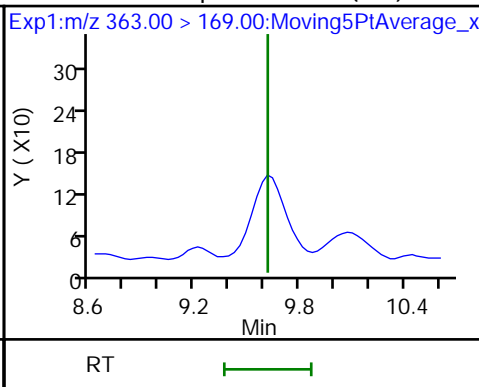
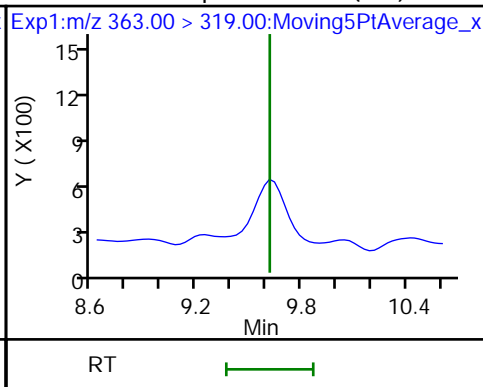
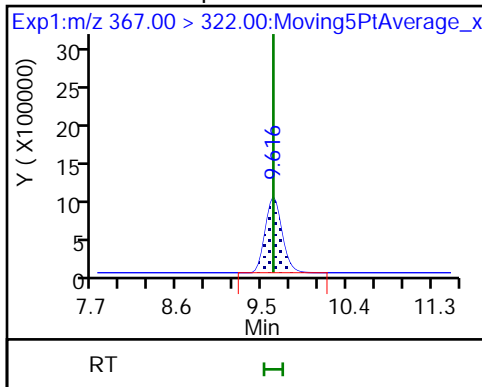
13 Hydro-EVE Acid (ND)



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid (ND)

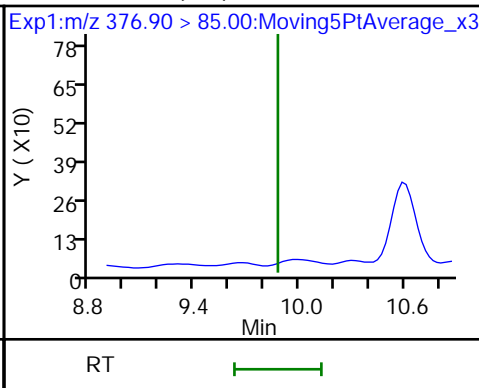
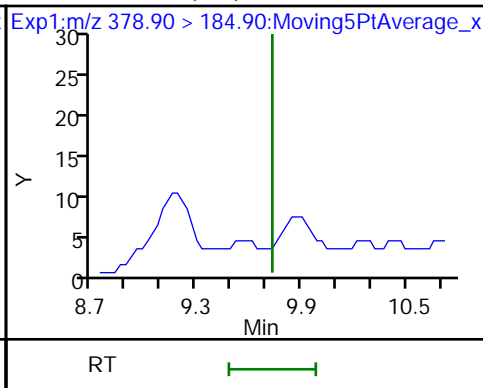
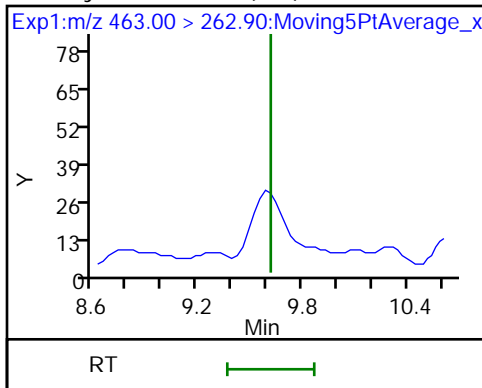
16 Perfluoroheptanoic acid (ND)



15 Hydro-PS Acid (ND)

17 PFECA G (ND)

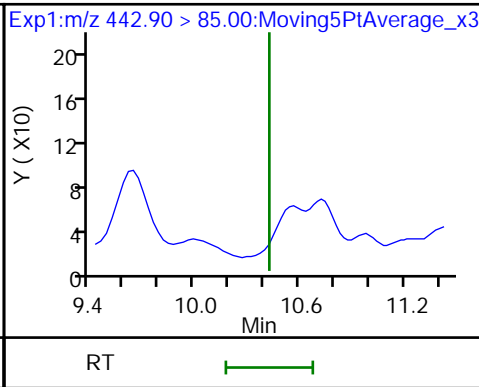
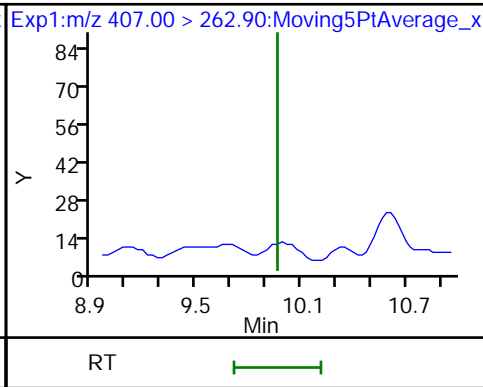
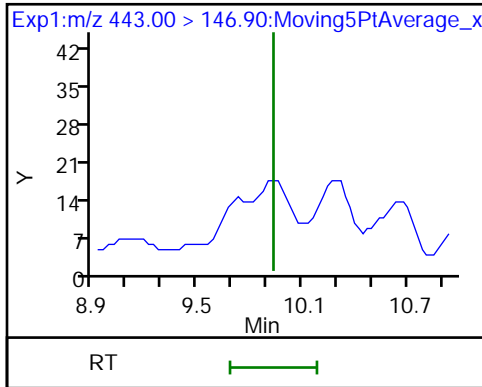
18 PFO4DA (ND)



19 PS Acid (ND)

20 EVE Acid (ND)

21 TAF (ND)







Eurofins TestAmerica, Sacramento

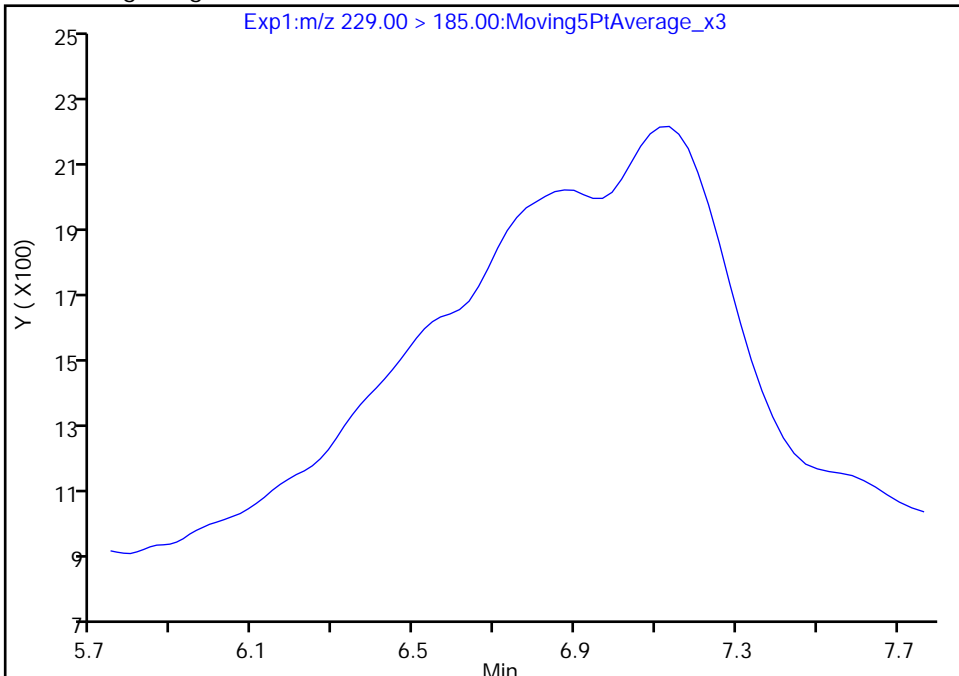
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_014.d  
Injection Date: 13-Feb-2021 10:12:41 Instrument ID: A12  
Lims ID: MB 320-458886/1-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

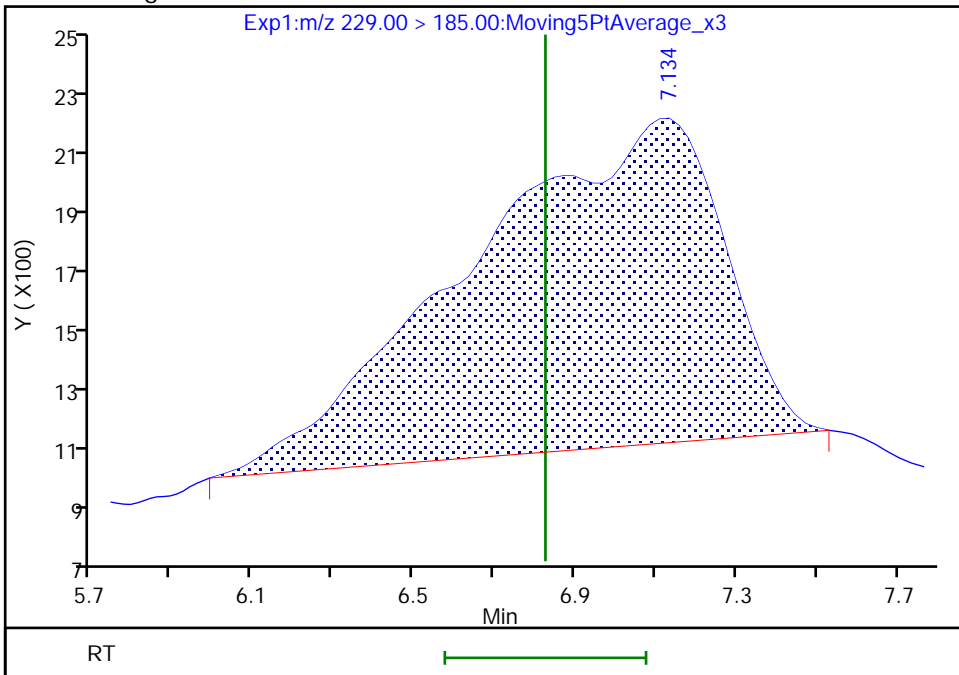
Not Detected  
Expected RT: 6.83

Processing Integration Results



Manual Integration Results

RT: 7.13  
Area: 47321  
Amount: 0.001932  
Amount Units: ng/ml



Reviewer: yuj, 13-Feb-2021 12:37:21  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 490 of 540

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-462927/1-A  
 Matrix: Water Lab File ID: 2021.02.20\_A12\_TB3\_B\_014.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/17/2021 18:36  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/21/2021 04:41  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 463813 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	88		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_014.d  
 Lims ID: MB 320-462927/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 21-Feb-2021 04:41:25 ALS Bottle#: 14 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-462927/1-a (DUE: 2/18) HT: 2/24 RX RI  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:44:25 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:44:37  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 13C3 HFPO-DA	287.00 > 169.00	9.017	9.048	-0.031	2089389	0.2201		88.0	56176	
D 14 13C4 PFHpA	367.00 > 322.00	9.425	9.461	-0.036	7358499	0.2039		81.6	141461	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.425	9.461	-0.036	1.000	27265	0.000357	Target=0.00		107	
363.00 > 169.00	9.425	9.461	-0.036	1.000	8355		3.26(0.00-0.00)		135	

QC Flag Legend  
 Processing Flags

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_014.d

Injection Date: 21-Feb-2021 04:41:25

Instrument ID: A12

Lims ID: MB 320-462927/1-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 14

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

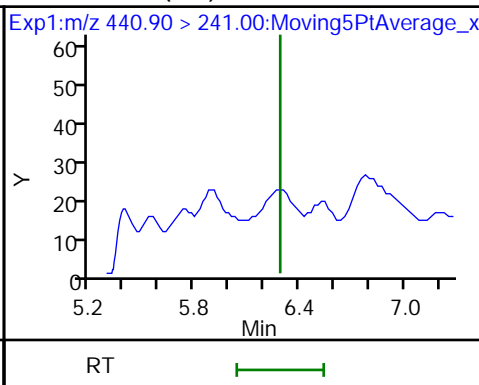
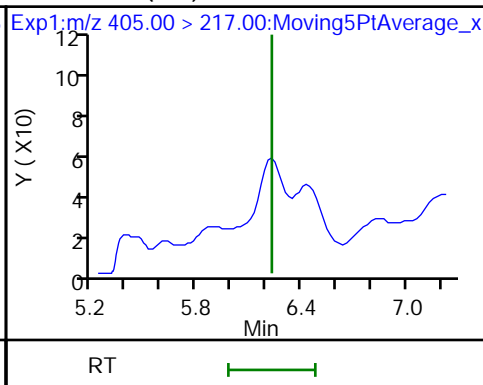
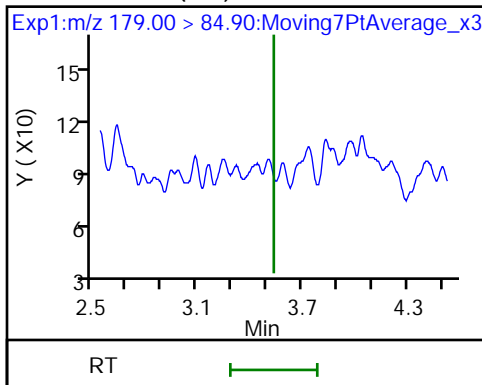
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFM0AA (ND)

2 R-EVE (ND)

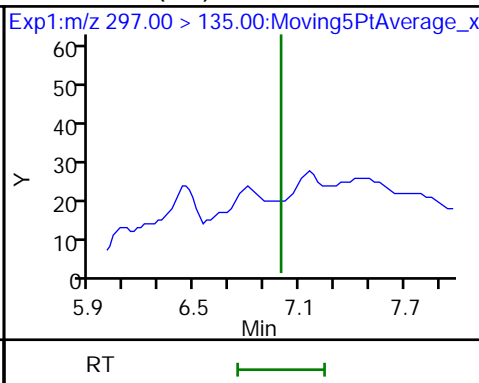
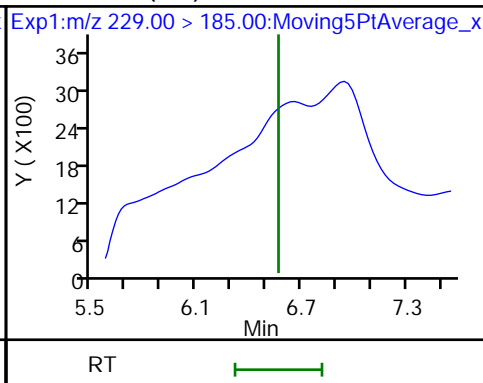
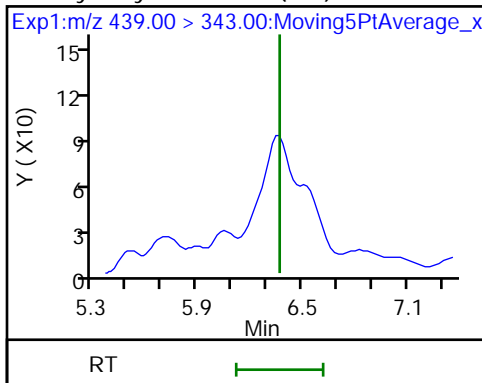
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (ND)

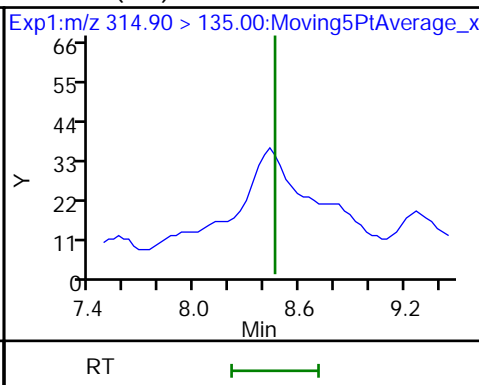
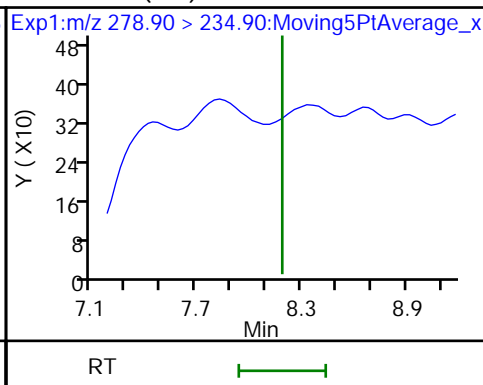
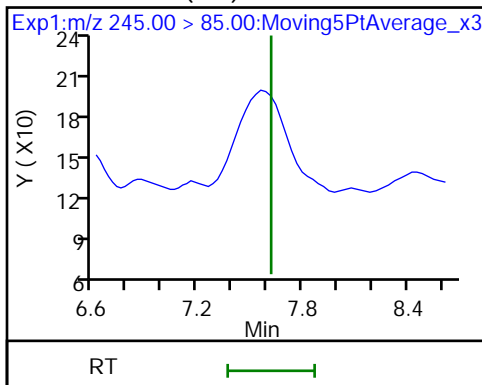
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

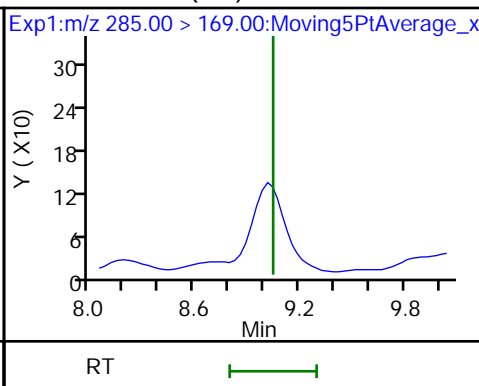
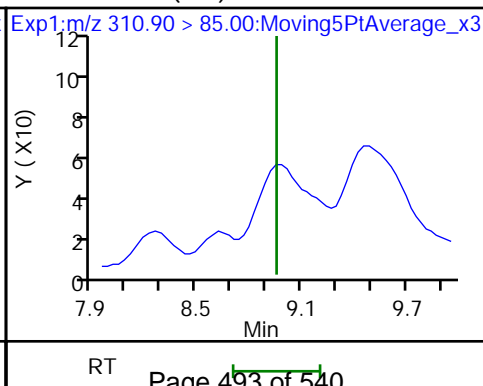
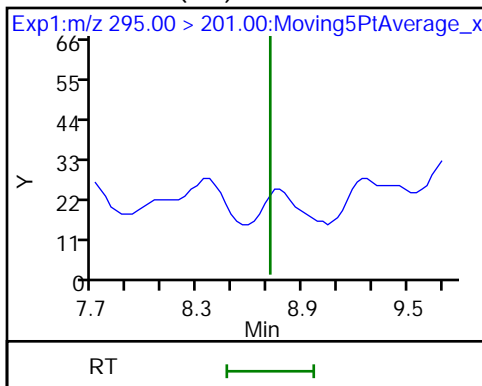
7 PES (ND)



8 PFECA B (ND)

9 PFO3OA (ND)

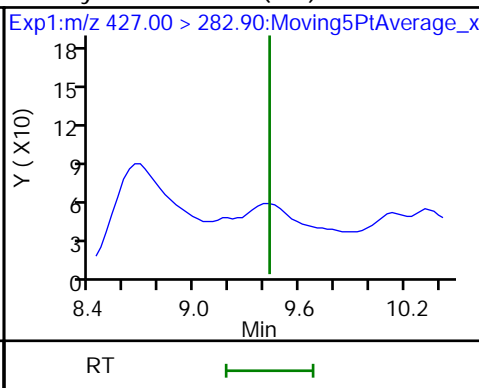
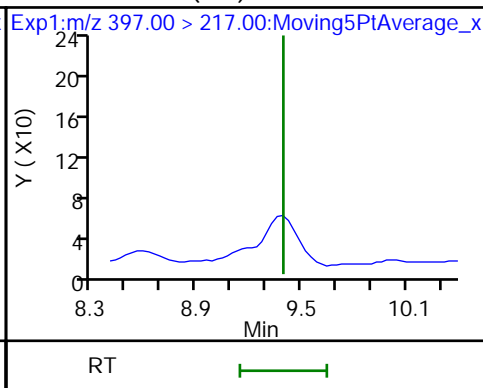
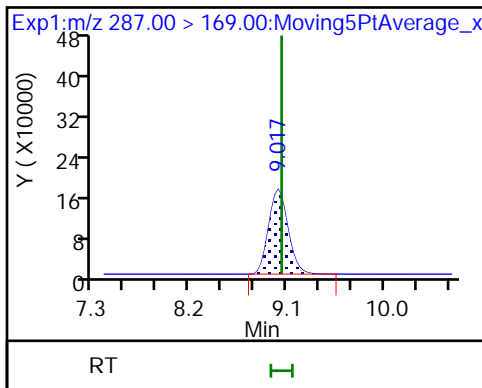
11 HPFO-DA (ND)



D 10 13C3 HFPO-DA

12 R-PSDCA (ND)

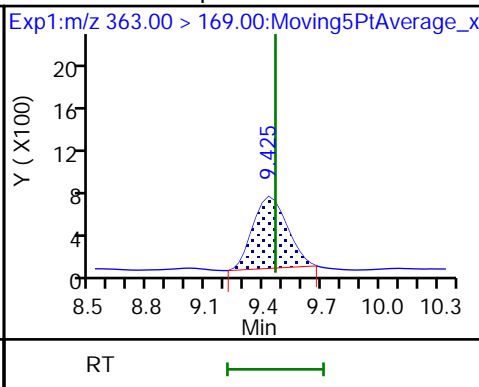
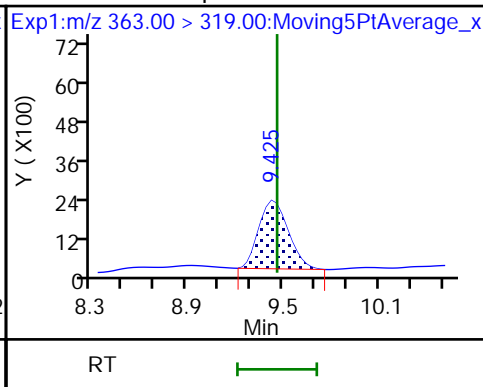
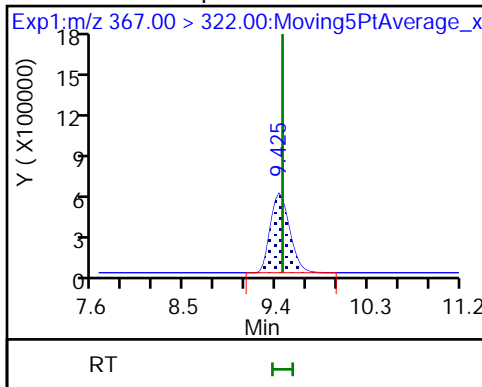
13 Hydro-EVE Acid (ND)



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

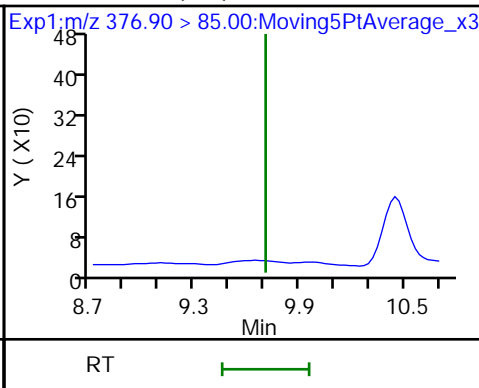
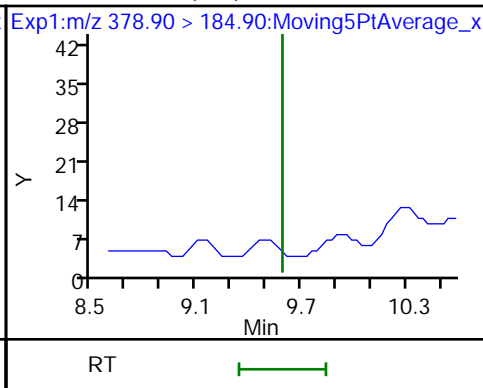
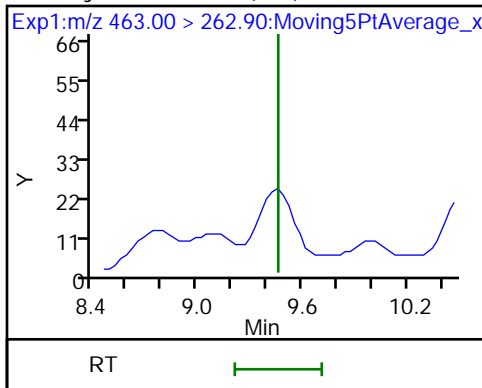
16 Perfluoroheptanoic acid



15 Hydro-PS Acid (ND)

17 PFECA G (ND)

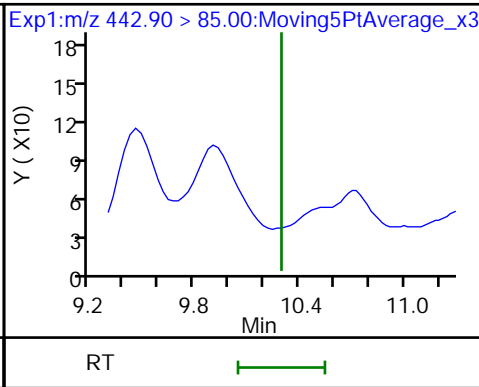
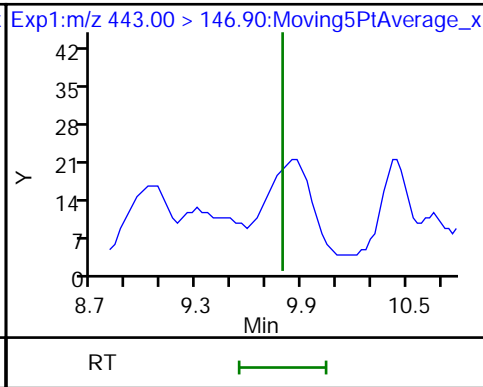
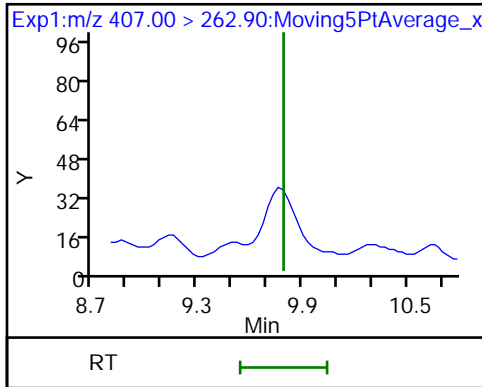
18 PFO4DA (ND)



20 EVE Acid (ND)

19 PS Acid (ND)

21 TAF (ND)





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-458886/2-A  
 Matrix: Water Lab File ID: 2021.02.13\_A12\_TB3\_A\_022.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/04/2021 18:51  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/13/2021 12:33  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 461727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.202		0.0020	
13252-13-6	HFPO-DA	0.201		0.0020	
773804-62-9	Hydro-EVE Acid	0.197		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.189		0.0020	
749836-20-2	Hydro-PS Acid	0.183		0.0020	
1132933-86-8	NVHOS	0.184		0.0020	
267239-61-2	PEPA	0.184		0.020	
113507-82-7	PES	0.194		0.0020	
151772-58-6	PFECA B	0.193		0.0020	
801212-59-9	PFECA G	0.189		0.0020	
674-13-5	PFMOAA	0.187		0.0020	
39492-88-1	PFO2HxA	0.204		0.0020	
39492-89-2	PFO3OA	0.215		0.0020	
39492-90-5	PFO4DA	0.255		0.0020	
39492-91-6	PFO5DA	0.183		0.0020	
13140-29-9	PMPA	0.198		0.010	
29311-67-9	PS Acid	0.183		0.0020	
2416366-22-6	R-EVE	0.210		0.0020	
2416366-18-0	R-PSDA	0.183		0.0020	
2416366-21-5	R-PSDCA	0.186		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	89		25-150



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_022.d  
 Lims ID: LCS 320-458886/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 13-Feb-2021 12:33:38 ALS Bottle#: 22 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-458886/2-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 14:56:11 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 14:56:11  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	4.215	4.129	0.086	1459446	0.0934		93.4	252	M
2 R-EVE	405.00 > 217.00	6.467	6.486	-0.019	780714	0.1048		105	11161	
3 R-PSDA	440.90 > 241.00	6.526	6.546	-0.020	367620	0.0917		91.7	4442	
4 Hydrolyzed PSDA	439.00 > 343.00	6.590	6.613	-0.023	1232866	0.0943		94.3	24337	
23 PMPA	229.00 > 185.00	6.827	6.827	0.0	2420351	0.0988		98.8	1525	
5 NVHOS	297.00 > 135.00	7.206	7.232	-0.026	868474	0.0919		91.9	14476	
6 PFO2HxA	245.00 > 85.00	7.768	7.799	-0.030	1888143	0.1020		102	16196	
22 PEPA	278.90 > 234.90	8.366	8.399	-0.033	865138	0.0921		92.1	1296	
7 PES	314.90 > 135.00	8.619	8.650	-0.031	3507666	0.0968		96.8	67733	
8 PFECA B	295.00 > 201.00	8.828	8.860	-0.032	1433254	0.0963		96.3	22846	
9 PFO3OA	310.90 > 85.00	9.075	9.103	-0.028	796417	0.1074		107	6110	
11 HPFO-DA	285.00 > 169.00	9.188	9.216	-0.028	1.003 854875	0.1003		100	24191	
D 10 13C3 HFPO-DA	287.00 > 169.00	9.160	9.216	-0.056	1863701	0.2217		88.7	52774	
12 R-PSDCA	397.00 > 217.00	9.524	9.556	-0.032	7282563	0.0932		93.2	114903	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.589	9.617	-0.028		9796703	0.0984		98.4	86169	
D 14 13C4 PFHpA										
367.00 > 322.00	9.589	9.617	-0.028		11098495	0.2561		102	223313	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.589	9.617	-0.028	1.000	5409474	0.1053	Target=0.00	105	5901	
363.00 > 169.00	9.589	9.617	-0.028	1.000	1615123		3.35(0.00-0.00)		32553	
15 Hydro-PS Acid										
463.00 > 262.90	9.589	9.617	-0.028		3284337	0.0913		91.3	74828	
17 PFECA G										
378.90 > 184.90	9.704	9.732	-0.028		1018407	0.0944		94.4	28991	
18 PFO4DA										
376.90 > 85.00	9.847	9.876	-0.029		1178517	0.1274		127	6766	
19 PS Acid										
443.00 > 146.90	9.905	9.933	-0.028		1442847	0.0914		91.4	41193	
20 EVE Acid										
407.00 > 262.90	9.905	9.962	-0.057		6685513	0.1011		101	141458	
21 TAF										
442.90 > 85.00	10.401	10.427	-0.026		687022	0.0916		91.6	1030	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_022.d

Injection Date: 13-Feb-2021 12:33:38

Instrument ID: A12

Lims ID: LCS 320-458886/2-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 22

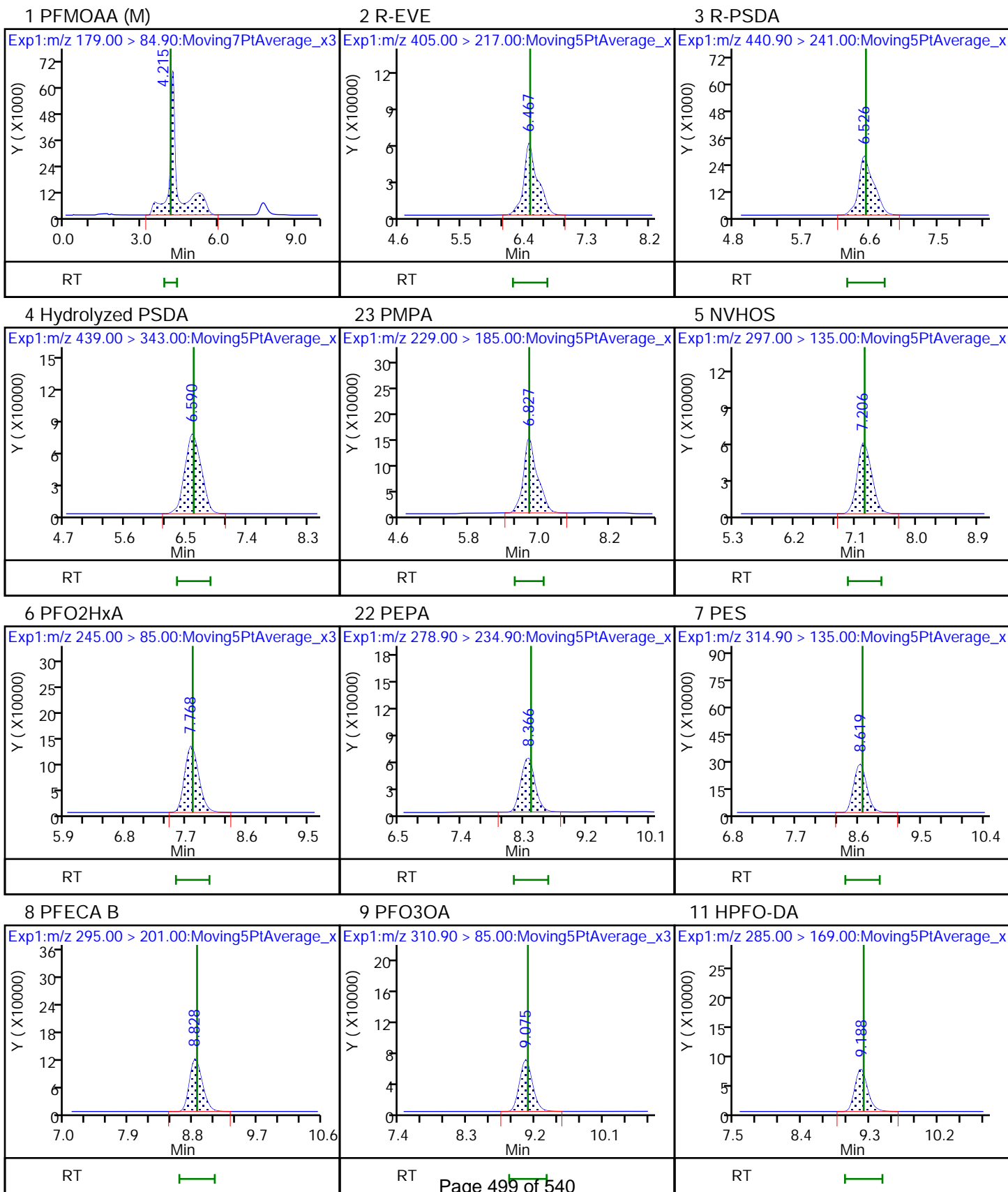
Worklist Smp#: 11

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

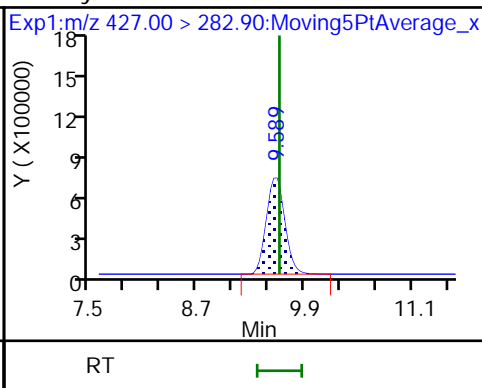
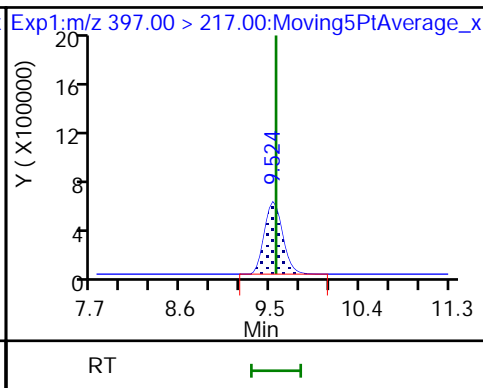
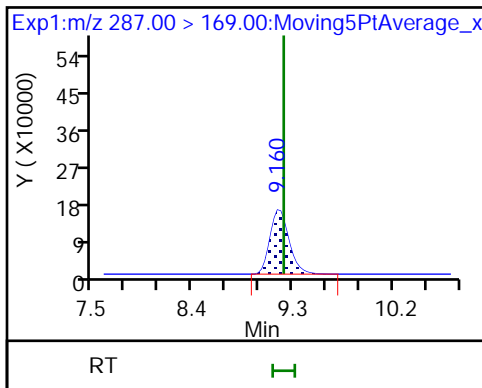
Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA

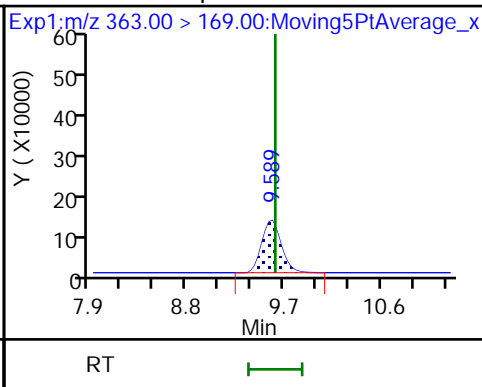
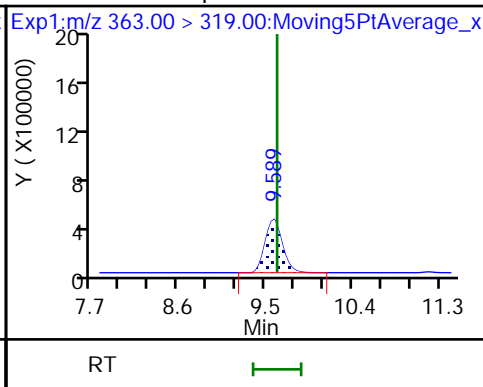
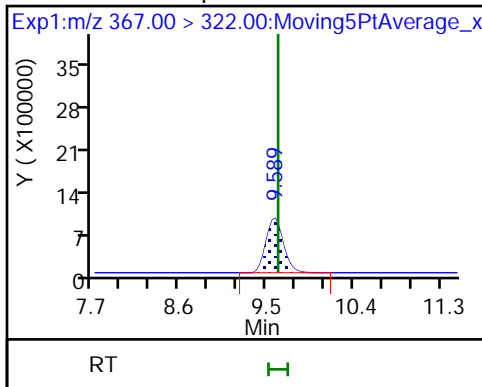
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

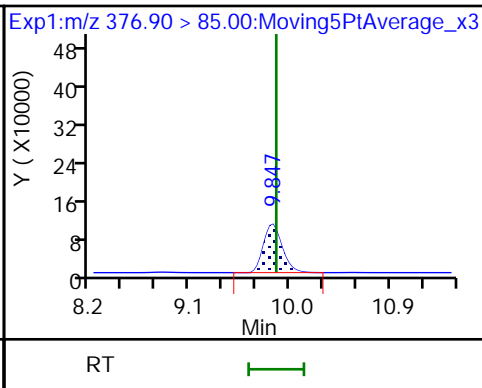
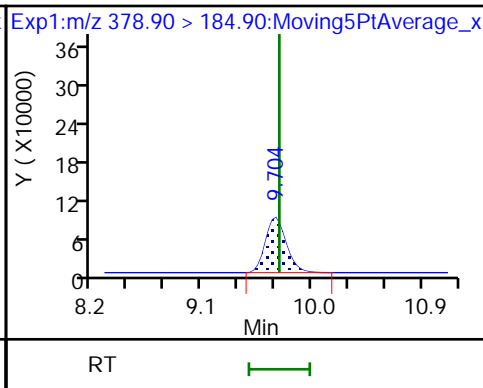
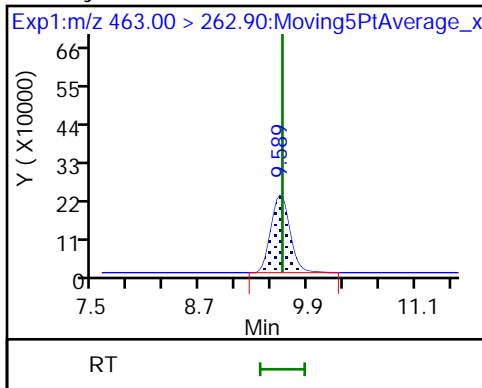
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

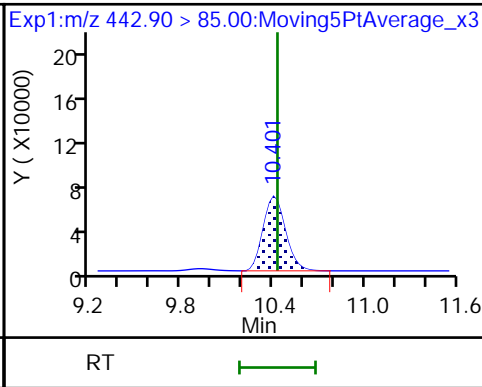
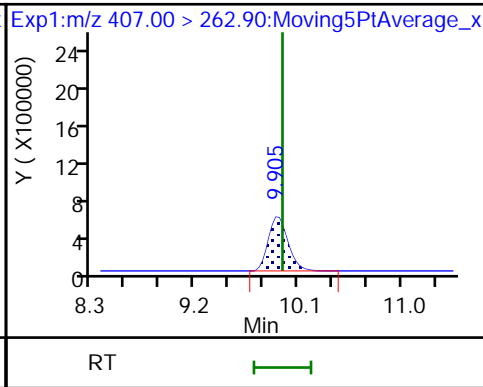
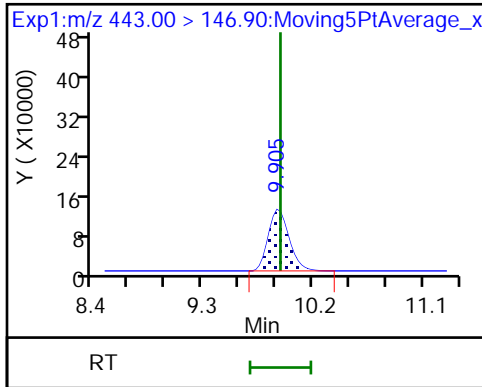
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

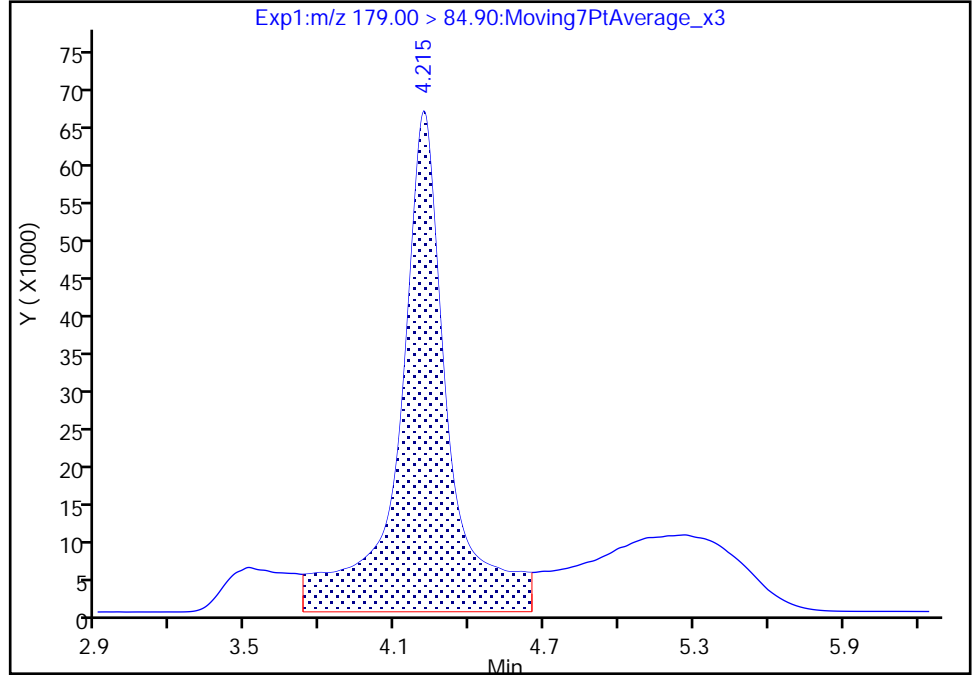
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_022.d  
Injection Date: 13-Feb-2021 12:33:38 Instrument ID: A12  
Lims ID: LCS 320-458886/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

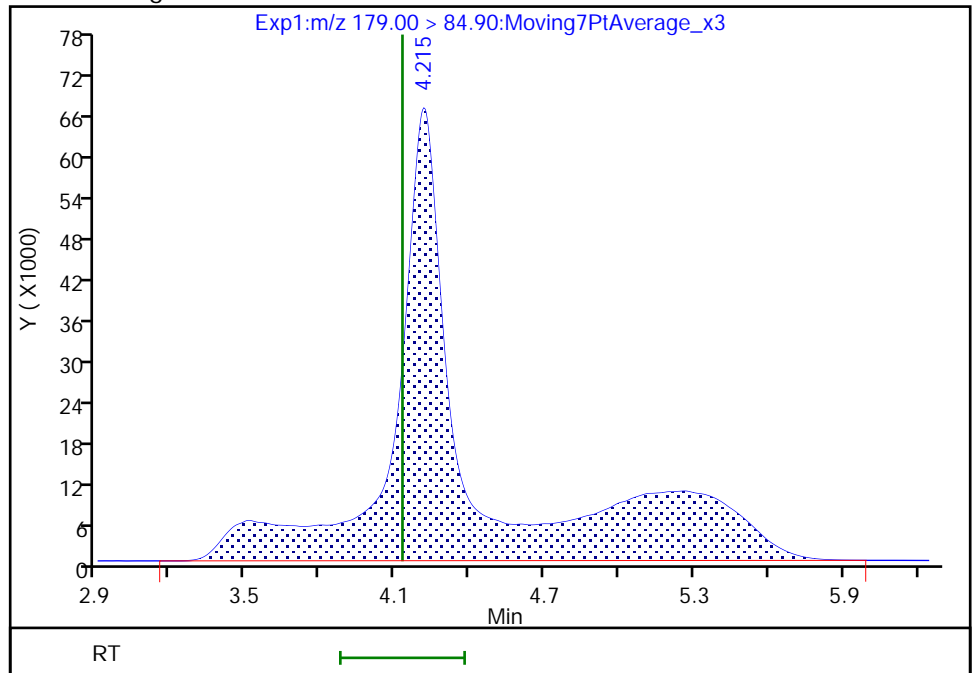
RT: 4.21  
Area: 901556  
Amount: 0.057673  
Amount Units: ng/ml

Processing Integration Results



RT: 4.21  
Area: 1459446  
Amount: 0.093362  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 14:56:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-462927/2-A  
 Matrix: Water Lab File ID: 2021.02.20\_A12\_TB3\_B\_022.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/17/2021 18:36  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/21/2021 07:02  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 463813 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.182		0.0020	
13252-13-6	HFPO-DA	0.191		0.0020	
773804-62-9	Hydro-EVE Acid	0.197		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.220		0.0020	
749836-20-2	Hydro-PS Acid	0.197		0.0020	
1132933-86-8	NVHOS	0.181		0.0020	
267239-61-2	PEPA	0.172		0.020	
113507-82-7	PES	0.195		0.0020	
151772-58-6	PFECA B	0.195		0.0020	
801212-59-9	PFECA G	0.147		0.0020	
674-13-5	PFMOAA	0.224		0.0020	
39492-88-1	PFO2HxA	0.202		0.0020	
39492-89-2	PFO3OA	0.174		0.0020	
39492-90-5	PFO4DA	0.195		0.0020	
39492-91-6	PFO5DA	0.164		0.0020	
13140-29-9	PMPA	0.195		0.010	
29311-67-9	PS Acid	0.187		0.0020	
2416366-22-6	R-EVE	0.198		0.0020	
2416366-18-0	R-PSDA	0.186		0.0020	
2416366-21-5	R-PSDCA	0.210		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	88		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d  
 Lims ID: LCS 320-462927/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 21-Feb-2021 07:02:18 ALS Bottle#: 22 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-462927/2-a RI  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:51:48 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:51:48  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.625	3.535	0.090		1366930	0.1122		112	76.8	M
2 R-EVE										M
405.00 > 217.00	6.247	6.229	0.018		584485	0.0991		99.1	6548	M
3 R-PSDA										M
440.90 > 241.00	6.307	6.289	0.018		271048	0.0930		93.0	3838	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.367	6.369	-0.002		927435	0.1100		110	15317	M
23 PMPA										M
229.00 > 185.00	6.566	6.568	-0.002		2390517	0.0975		97.5	1159	M
5 NVHOS										
297.00 > 135.00	6.992	6.994	-0.002		857380	0.0907		90.7	13339	
6 PFO2HxA										
245.00 > 85.00	7.589	7.620	-0.031		1811792	0.1011		101	10168	
22 PEPA										
278.90 > 234.90	8.187	8.189	-0.002		901726	0.0858		85.8	2264	
7 PES										
314.90 > 135.00	8.458	8.459	-0.001		3580329	0.0974		97.4	85009	
8 PFECA B										
295.00 > 201.00	8.685	8.715	-0.030		1460381	0.0976		97.6	36944	
9 PFO3OA										
310.90 > 85.00	8.954	8.957	-0.003		695366	0.0868		86.8	8992	
11 HPFO-DA										
285.00 > 169.00	9.045	9.048	-0.003	1.000	896154	0.0955		95.5	24337	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.045	9.048	-0.003		2090505	0.2202		88.1	56548	
12 R-PSDCA										
397.00 > 217.00	9.393	9.396	-0.003		4415231	0.1049		105	124137	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.458	9.428	0.030		7672918	0.0987		98.7	74893	
D 14 13C4 PFHpA										
367.00 > 322.00	9.458	9.461	-0.003		7607521	0.2108		84.3	145984	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.458	9.461	-0.003	1.000	3188085	0.0971	Target=0.00	97.1	10649	
363.00 > 169.00	9.458	9.461	-0.003	1.000	935795		3.41(0.00-0.00)		14370	
15 Hydro-PS Acid										
463.00 > 262.90	9.490	9.461	0.029		3164748	0.0984		98.4	69252	
17 PFECA G										
378.90 > 184.90	9.588	9.591	-0.003		661723	0.0736		73.6	17644	
18 PFO4DA										
376.90 > 85.00	9.702	9.705	-0.003		794191	0.0976		97.6	13346	
20 EVE Acid										
407.00 > 262.90	9.788	9.791	-0.003		5372406	0.0910		91.0	113727	
19 PS Acid										
443.00 > 146.90	9.788	9.791	-0.003		1352713	0.0935		93.5	38556	
21 TAF										
442.90 > 85.00	10.296	10.296	0.0		582855	0.0820		82.0	1603	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfms\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d

Injection Date: 21-Feb-2021 07:02:18

Instrument ID: A12

Lims ID: LCS 320-462927/2-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 22

Worklist Smp#: 11

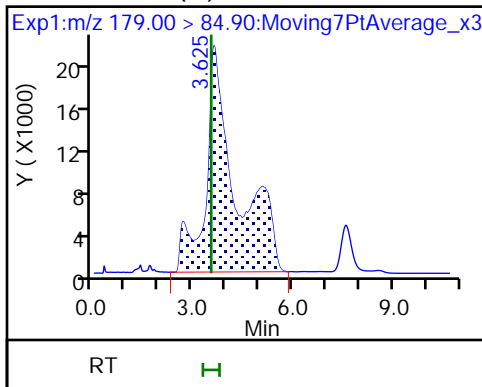
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

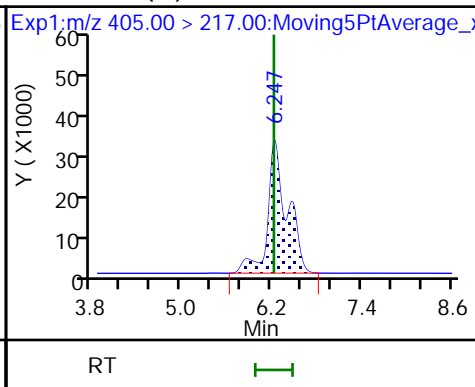
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

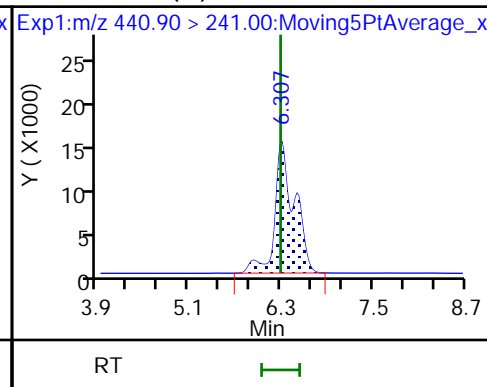
1 PFMOAA (M)



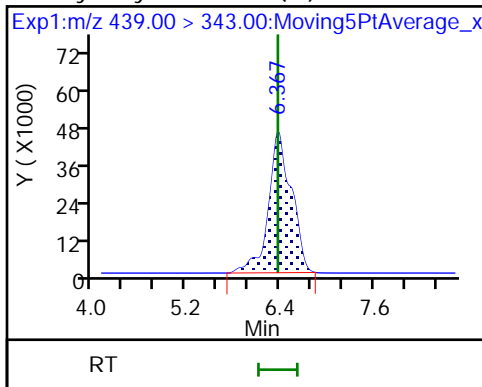
2 R-EVE (M)



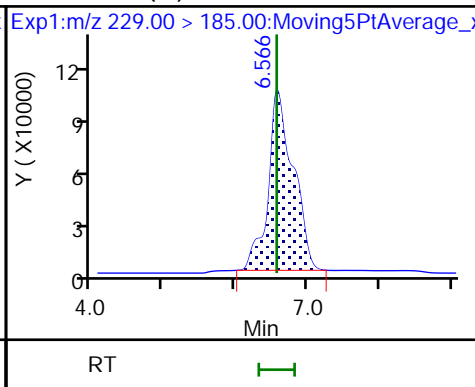
3 R-PSDA (M)



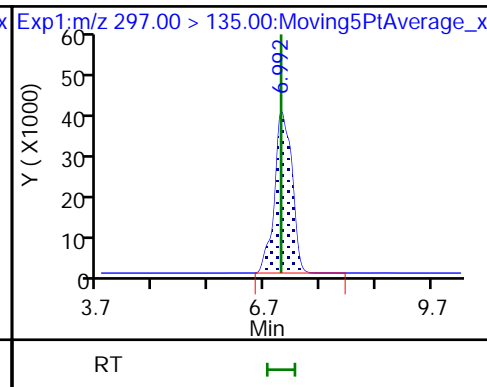
4 Hydrolyzed PSDA (M)



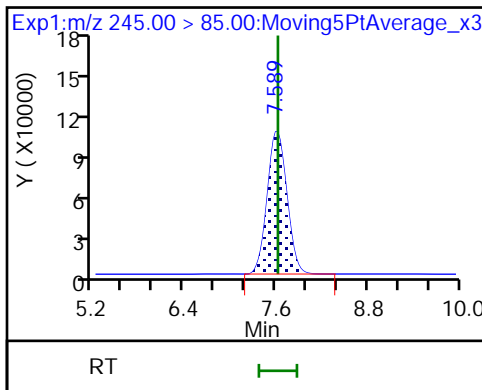
23 PMPA (M)



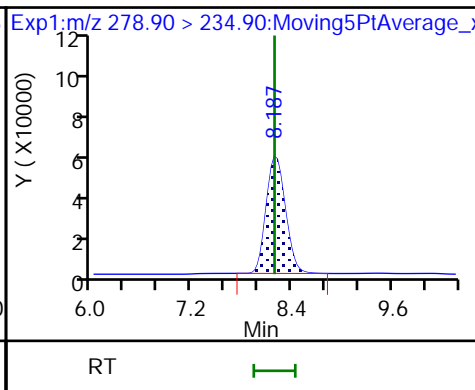
5 NVHOS



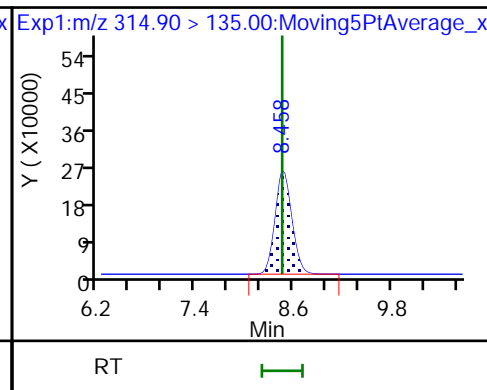
6 PFO2HxA



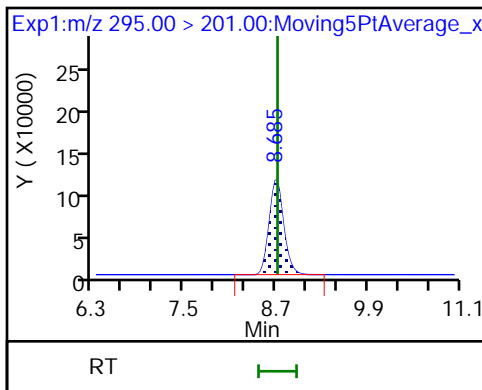
22 PEPA



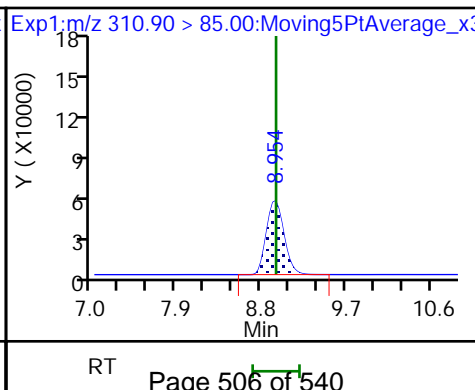
7 PES



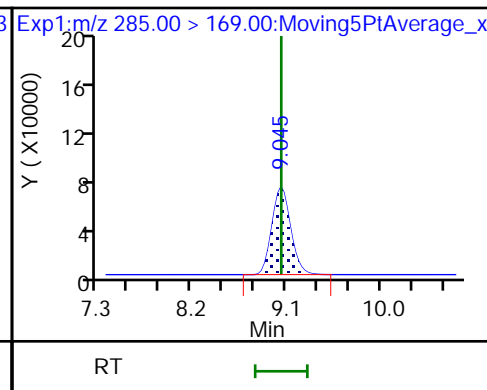
8 PFECA B



9 PFO3OA



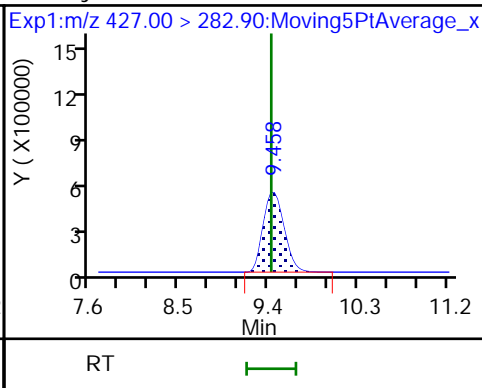
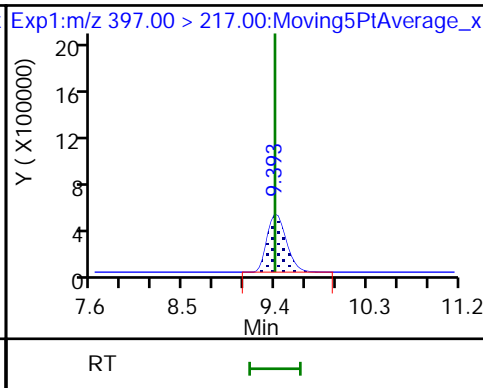
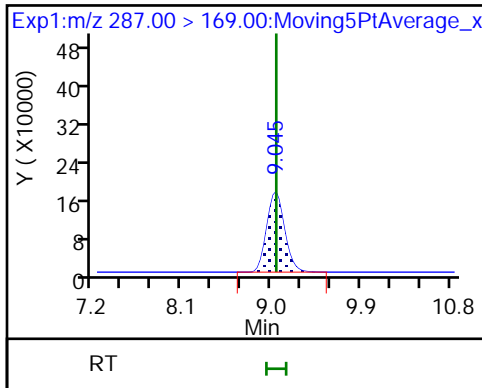
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

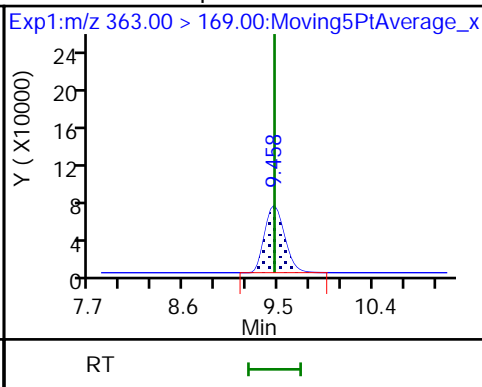
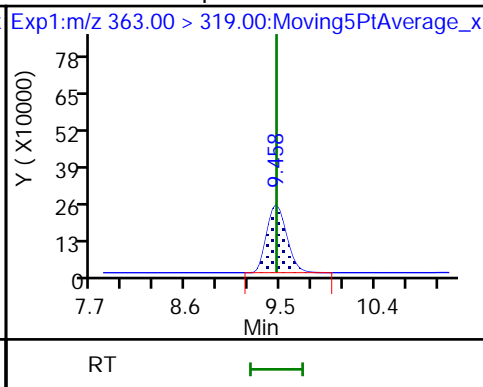
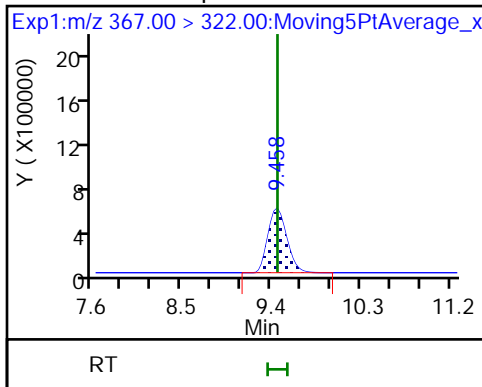
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

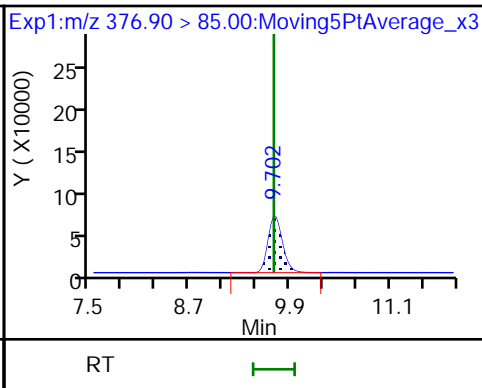
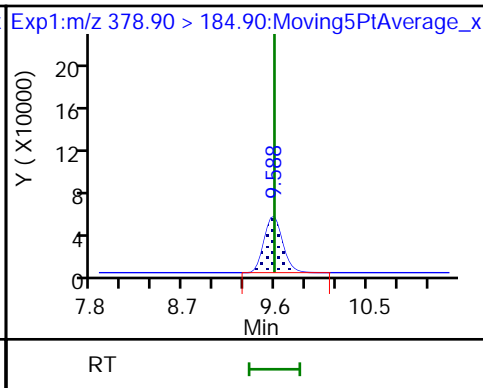
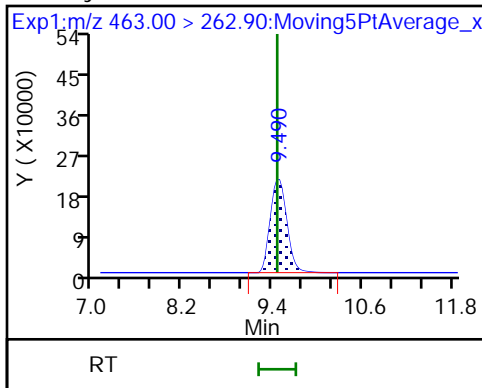
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

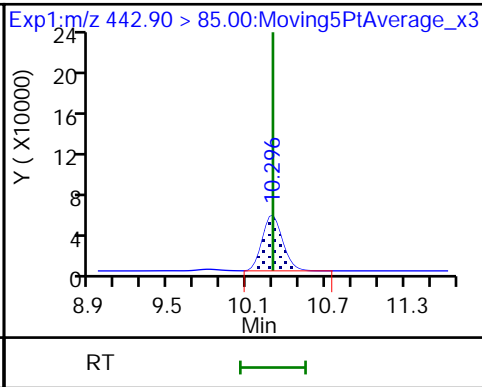
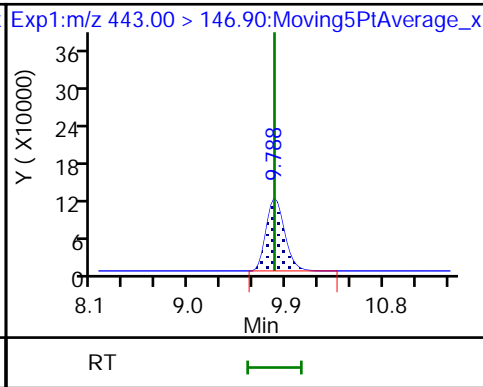
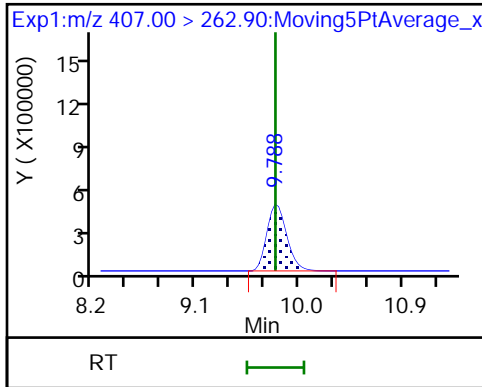
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

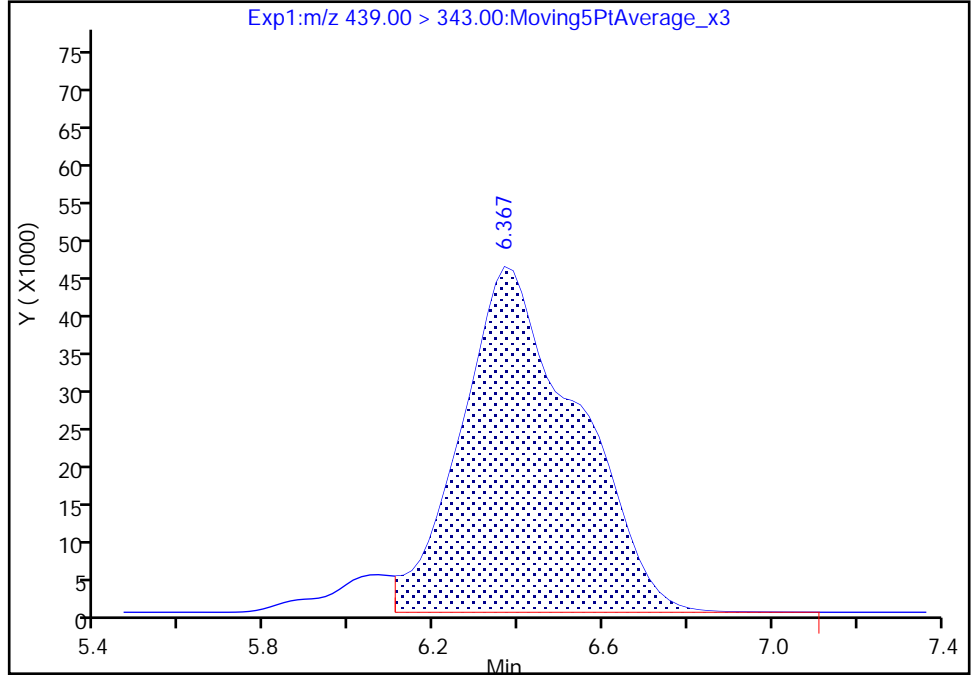
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d  
Injection Date: 21-Feb-2021 07:02:18 Instrument ID: A12  
Lims ID: LCS 320-462927/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

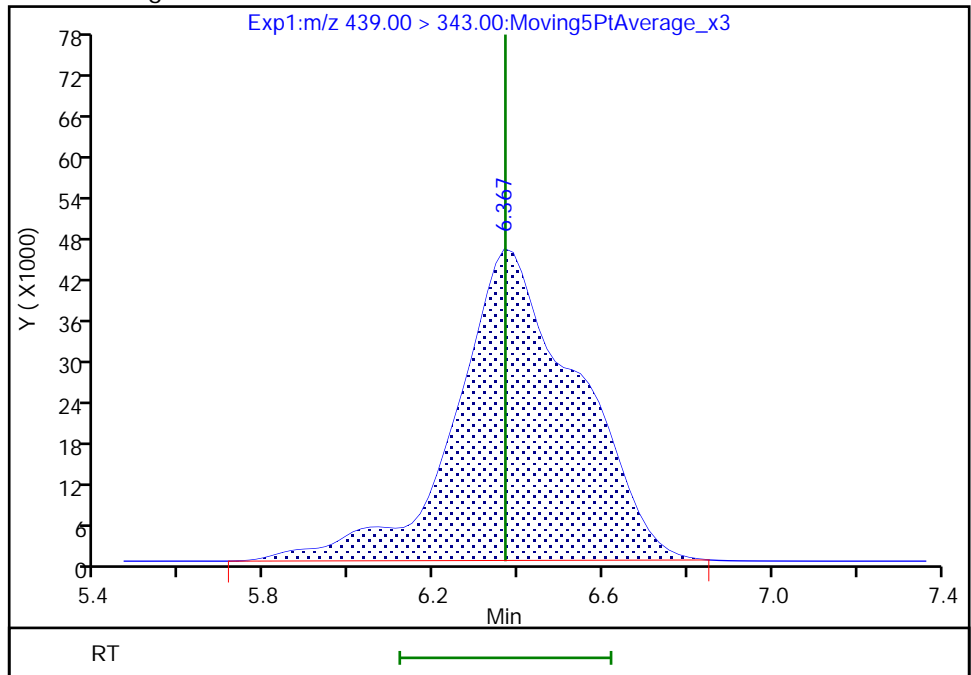
RT: 6.37  
Area: 879647  
Amount: 0.104367  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 927435  
Amount: 0.110037  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

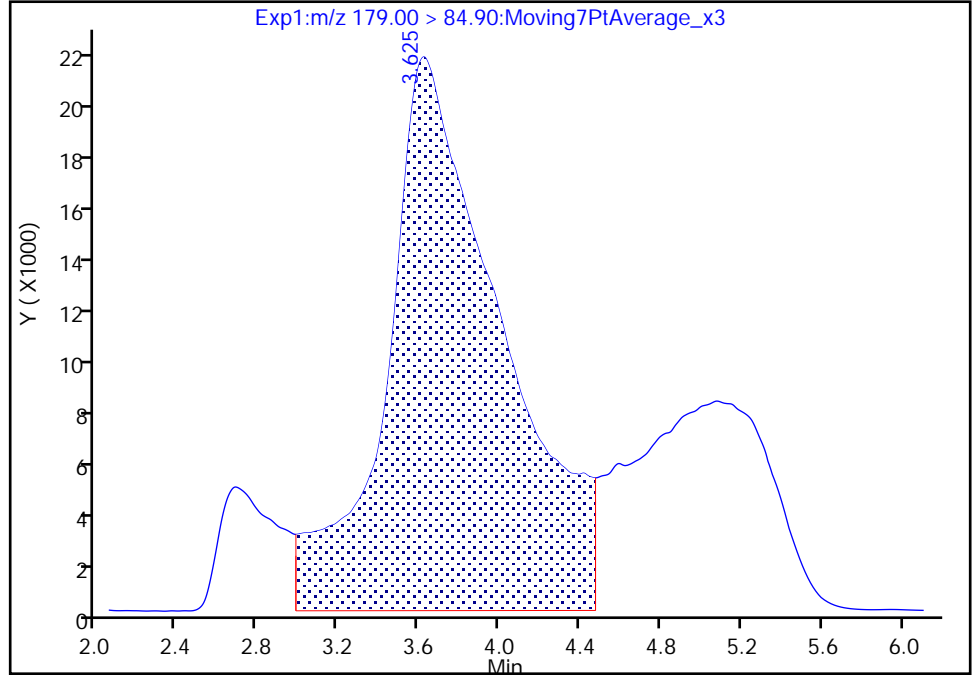
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d  
Injection Date: 21-Feb-2021 07:02:18 Instrument ID: A12  
Lims ID: LCS 320-462927/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

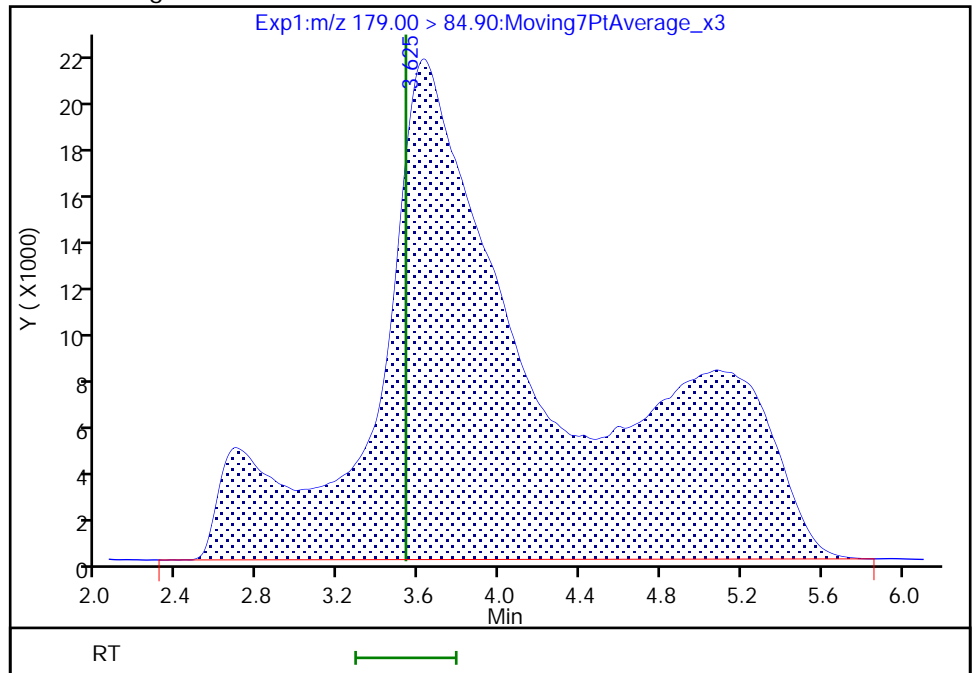
RT: 3.63  
Area: 869027  
Amount: 0.071332  
Amount Units: ng/ml

Processing Integration Results



RT: 3.63  
Area: 1366930  
Amount: 0.112202  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 21-Feb-2021 09:30:44  
Audit Action: Manually Integrated

Audit Reason: Other  
Page 510 of 540

Eurofins TestAmerica, Sacramento

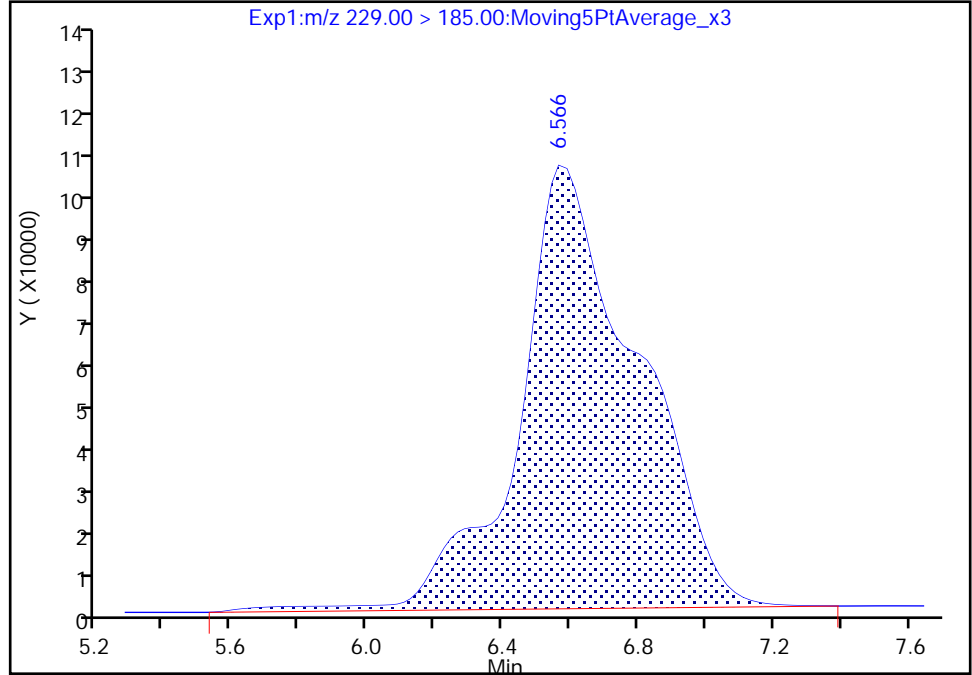
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Injection Date: 21-Feb-2021 07:02:18 Instrument ID: A12  
Lims ID: LCS 320-462927/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

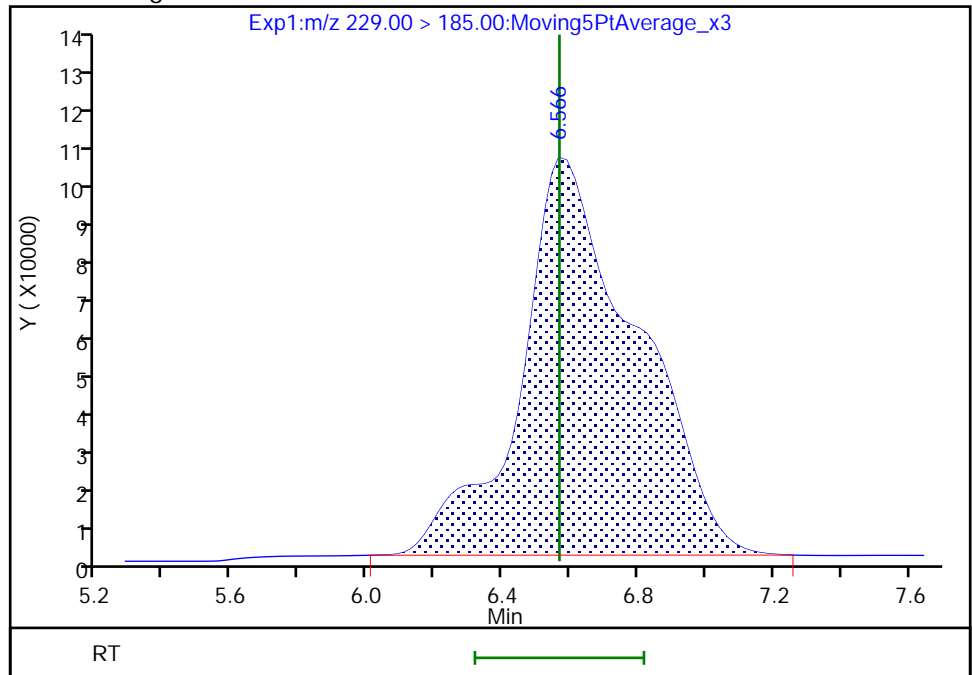
RT: 6.57  
Area: 2467182  
Amount: 0.100635  
Amount Units: ng/ml

Processing Integration Results



RT: 6.57  
Area: 2390517  
Amount: 0.097508  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

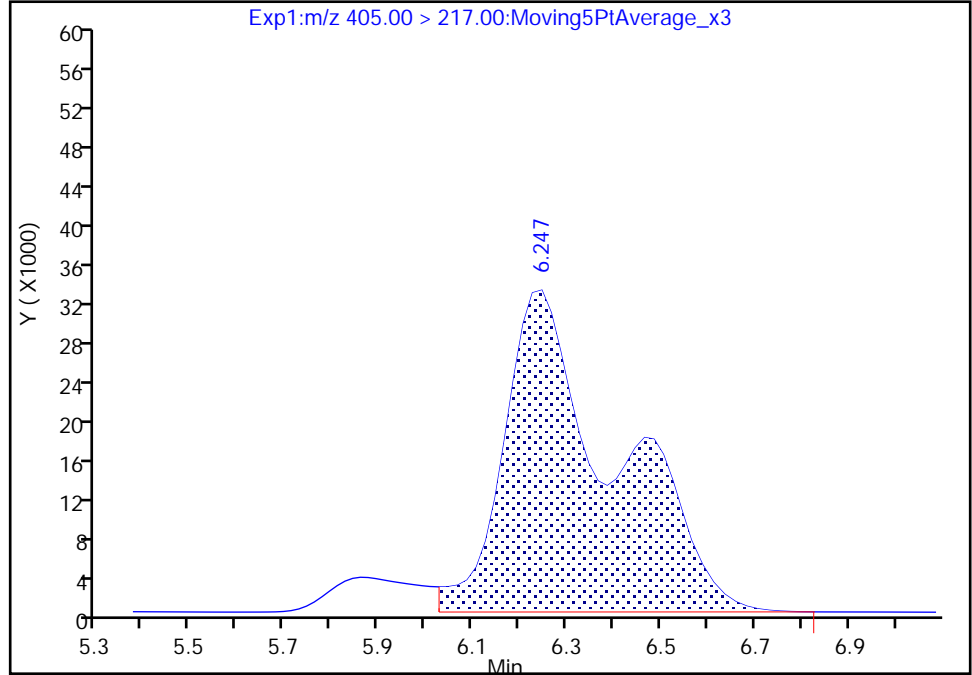
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d  
Injection Date: 21-Feb-2021 07:02:18 Instrument ID: A12  
Lims ID: LCS 320-462927/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

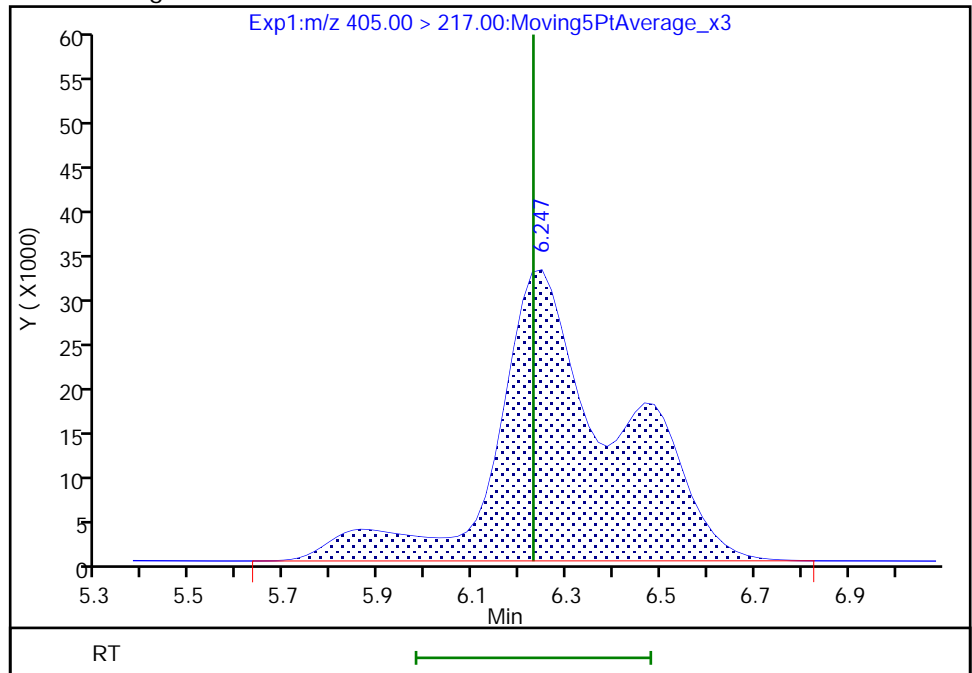
RT: 6.25  
Area: 537555  
Amount: 0.091151  
Amount Units: ng/ml

Processing Integration Results



RT: 6.25  
Area: 584485  
Amount: 0.099109  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:51:01

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

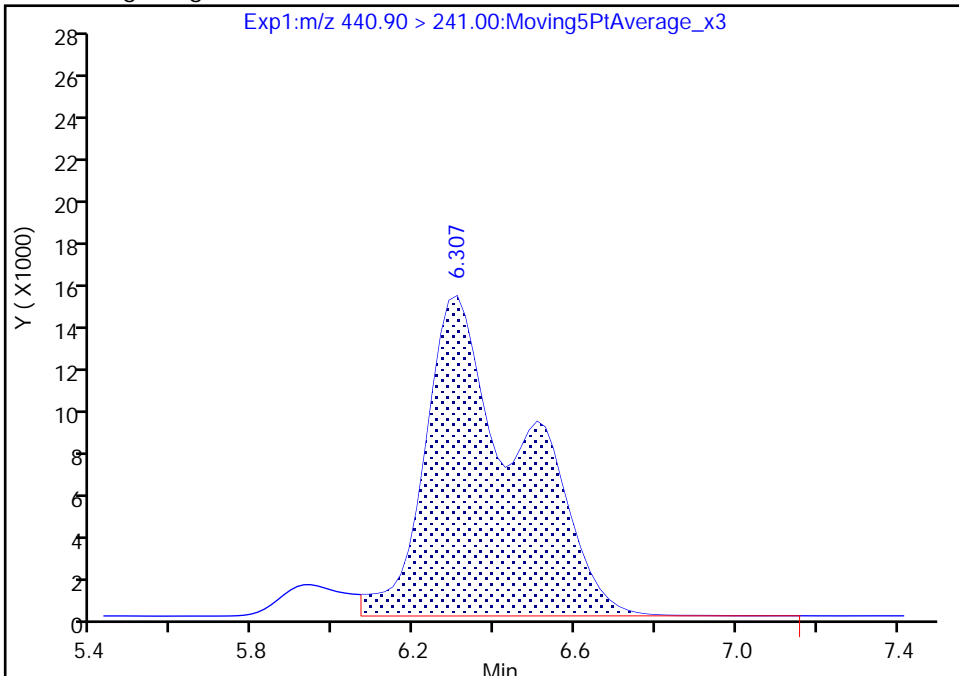
Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_022.d  
Injection Date: 21-Feb-2021 07:02:18 Instrument ID: A12  
Lims ID: LCS 320-462927/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 22 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

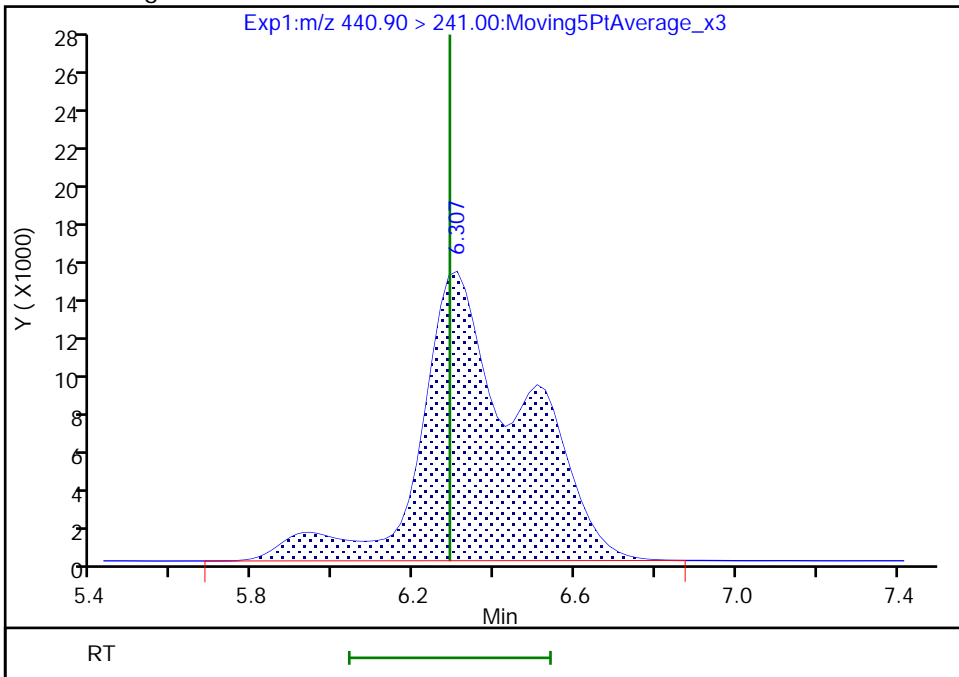
RT: 6.31  
Area: 254689  
Amount: 0.087419  
Amount Units: ng/ml

Processing Integration Results



RT: 6.31  
Area: 271048  
Amount: 0.093034  
Amount Units: ng/ml

Manual Integration Results



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-458886/3-A  
 Matrix: Water Lab File ID: 2021.02.13\_A12\_TB3\_A\_023.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/04/2021 18:51  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/13/2021 12:51  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 461727 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.215		0.0020	
13252-13-6	HFPO-DA	0.195		0.0020	
773804-62-9	Hydro-EVE Acid	0.199		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.191		0.0020	
749836-20-2	Hydro-PS Acid	0.186		0.0020	
1132933-86-8	NVHOS	0.189		0.0020	
267239-61-2	PEPA	0.178		0.020	
113507-82-7	PES	0.193		0.0020	
151772-58-6	PFECA B	0.196		0.0020	
801212-59-9	PFECA G	0.183		0.0020	
674-13-5	PFMOAA	0.188		0.0020	
39492-88-1	PFO2HxA	0.198		0.0020	
39492-89-2	PFO3OA	0.196		0.0020	
39492-90-5	PFO4DA	0.233		0.0020	
39492-91-6	PFO5DA	0.173		0.0020	
13140-29-9	PMPA	0.194		0.010	
29311-67-9	PS Acid	0.191		0.0020	
2416366-22-6	R-EVE	0.213		0.0020	
2416366-18-0	R-PSDA	0.177		0.0020	
2416366-21-5	R-PSDCA	0.195		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	93		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_023.d  
 Lims ID: LCSD 320-458886/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 13-Feb-2021 12:51:18 ALS Bottle#: 23 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-458886/3-a  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Feb-2021 15:59:25 Calib Date: 06-Feb-2021 15:55:23  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210206-112827.b\2020.02.06\_A12\_TB3\_ICAL\_015.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1682

First Level Reviewer: yuj Date: 13-Feb-2021 15:59:25  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.163	4.129	0.034		1465585	0.0938		93.8	262	M
2 R-EVE										
405.00 > 217.00	6.447	6.486	-0.040		792504	0.1064		106	11396	
3 R-PSDA										
440.90 > 241.00	6.486	6.546	-0.060		354558	0.0885		88.5	4107	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.566	6.613	-0.047		1248089	0.0955		95.5	18164	
23 PMPA										
229.00 > 185.00	6.803	6.827	-0.024		2375797	0.0970		97.0	1457	
5 NVHOS										
297.00 > 135.00	7.182	7.232	-0.050		892168	0.0944		94.4	14625	
6 PFO2HxA										
245.00 > 85.00	7.768	7.799	-0.030		1832049	0.0990		99.0	15404	
22 PEPA										
278.90 > 234.90	8.331	8.399	-0.068		837240	0.0891		89.1	1246	
7 PES										
314.90 > 135.00	8.588	8.650	-0.062		3499463	0.0966		96.6	67380	
8 PFECA B										
295.00 > 201.00	8.824	8.860	-0.036		1456620	0.0978		97.8	23313	
9 PFO3OA										
310.90 > 85.00	9.071	9.103	-0.032		725457	0.0978		97.8	4644	
11 HPFO-DA										
285.00 > 169.00	9.155	9.216	-0.061	1.000	869311	0.0973		97.3	24703	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.155	9.216	-0.061		1953076	0.2323		92.9	55896	
12 R-PSDCA										
397.00 > 217.00	9.520	9.556	-0.036		7599321	0.0973		97.3	99719	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.552	9.617	-0.065		9915762	0.0996		99.6	77360	
D 14 13C4 PFHpA										
367.00 > 322.00	9.552	9.617	-0.065		11011897	0.2541		102	217529	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.584	9.617	-0.033	1.003	5104494	0.1001	Target=0.00	100	11871	
363.00 > 169.00	9.552	9.617	-0.065	1.000	1406236		3.63(0.00-0.00)		27693	
15 Hydro-PS Acid										
463.00 > 262.90	9.584	9.617	-0.033		3342354	0.0929		92.9	76748	
17 PFECA G										
378.90 > 184.90	9.671	9.732	-0.061		985405	0.0914		91.4	27543	
18 PFO4DA										
376.90 > 85.00	9.814	9.876	-0.062		1078837	0.1166		117	6096	
19 PS Acid										
443.00 > 146.90	9.900	9.933	-0.033		1508061	0.0955		95.5	43321	
20 EVE Acid										
407.00 > 262.90	9.900	9.962	-0.062		7118465	0.1076		108	152592	
21 TAF										
442.90 > 85.00	10.396	10.427	-0.031		650136	0.0867		86.7	935	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfms\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_023.d

Injection Date: 13-Feb-2021 12:51:18

Instrument ID: A12

Lims ID: LCSD 320-458886/3-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 23

Worklist Smp#: 12

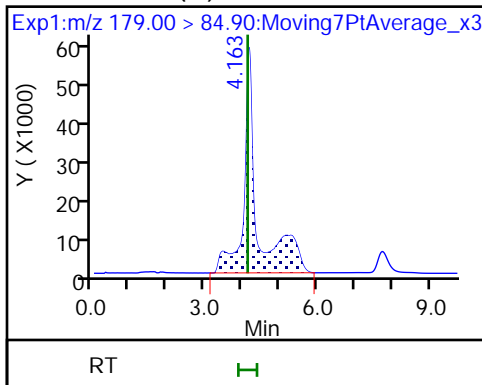
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

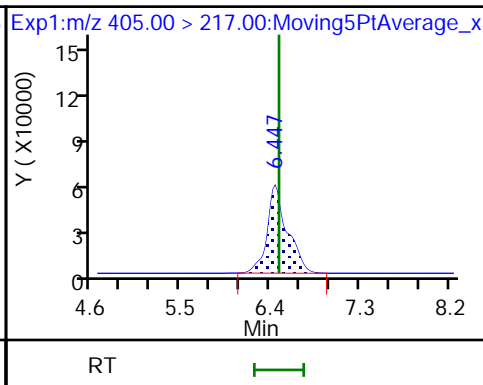
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

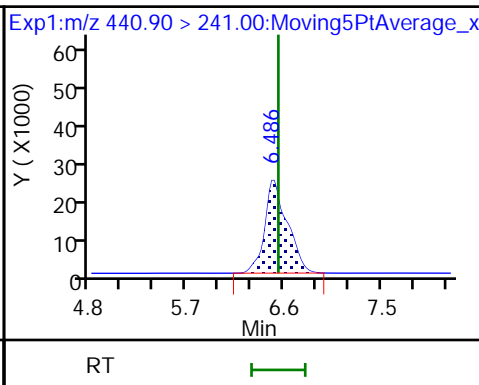
1 PFMOAA (M)



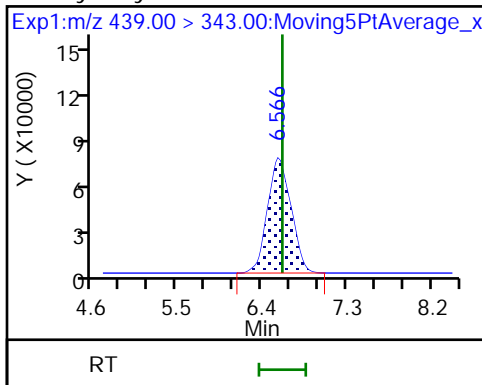
2 R-EVE



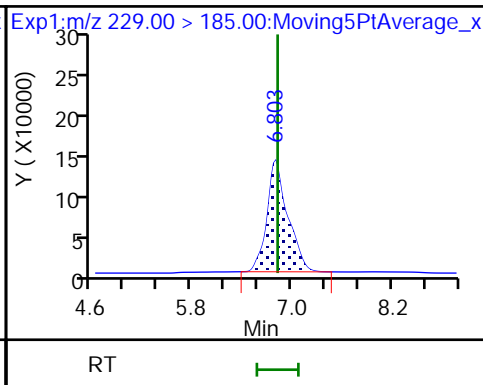
3 R-PSDA



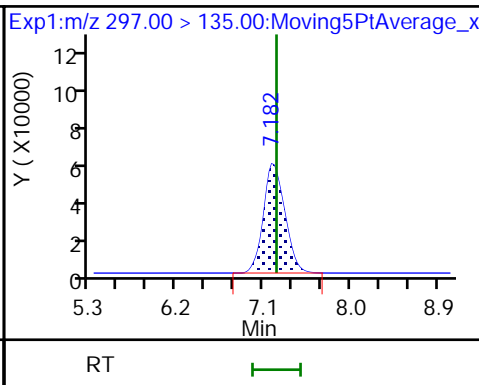
4 Hydrolyzed PSDA



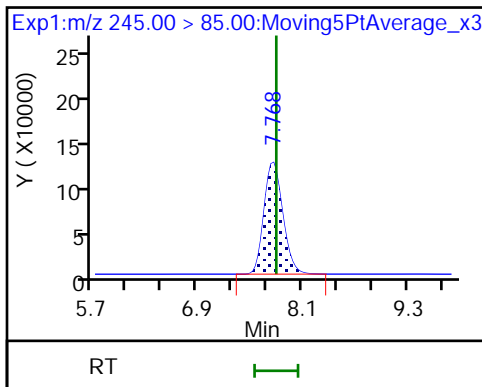
23 PMPA



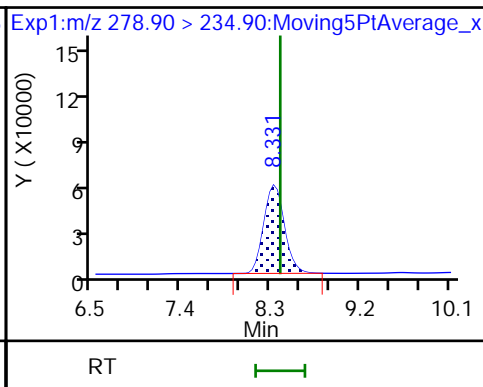
5 NVHOS



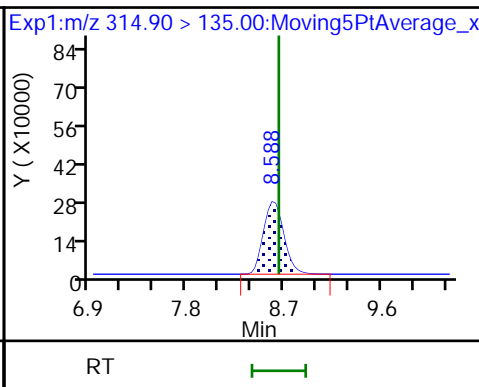
6 PFO2HxA



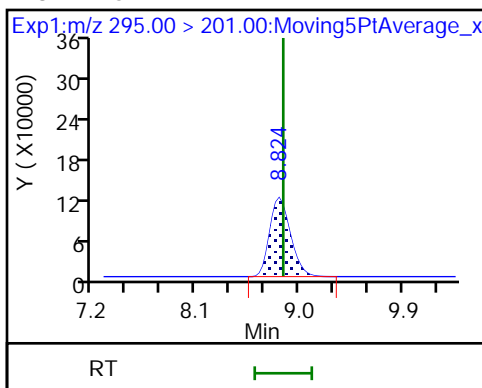
22 PEPA



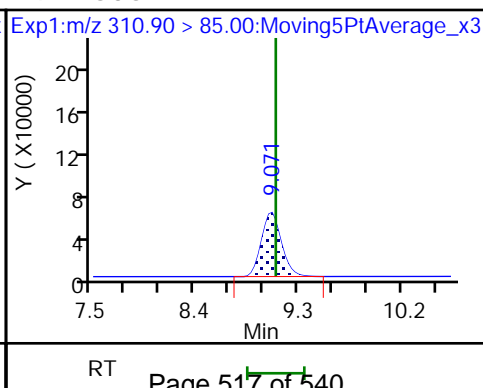
7 PES



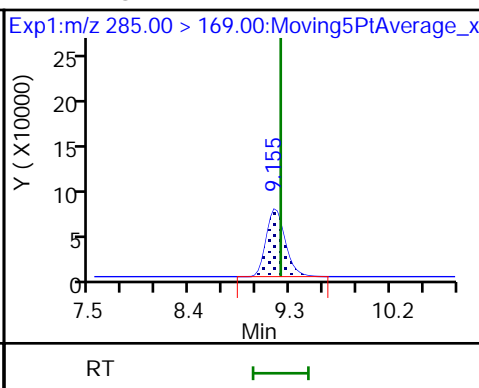
8 PFECA B



9 PFO3OA



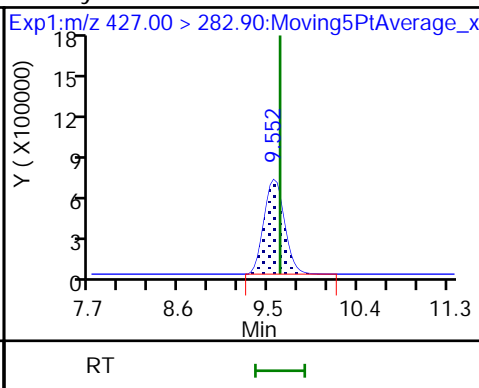
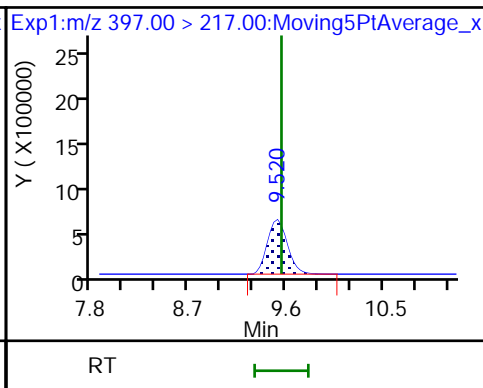
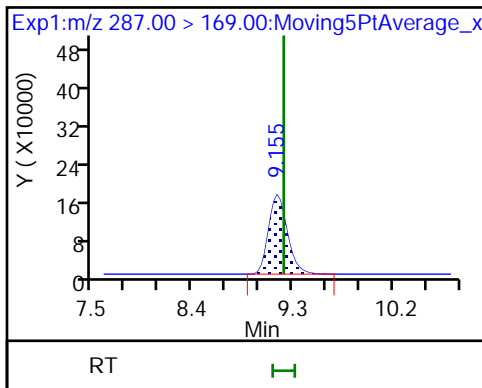
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

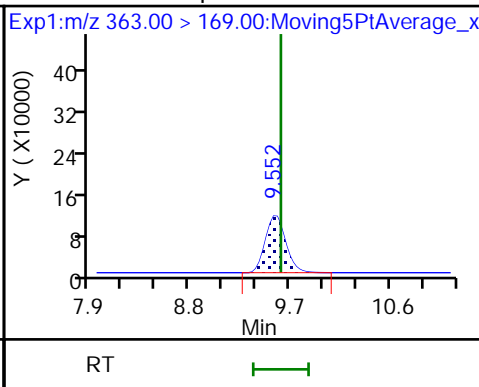
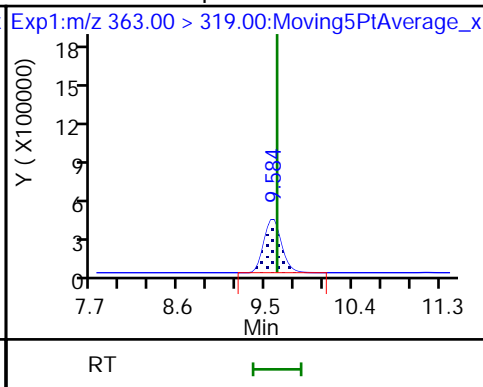
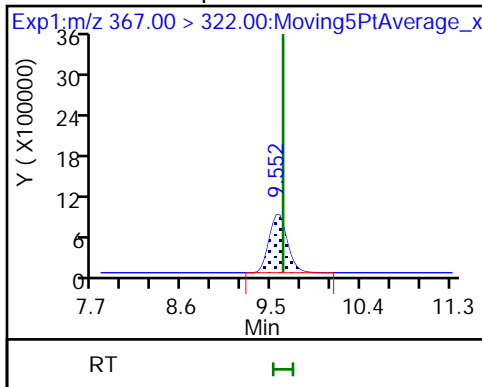
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

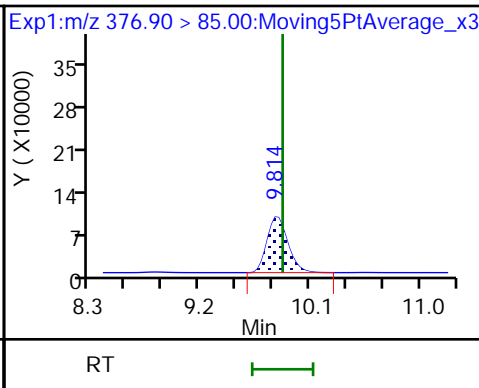
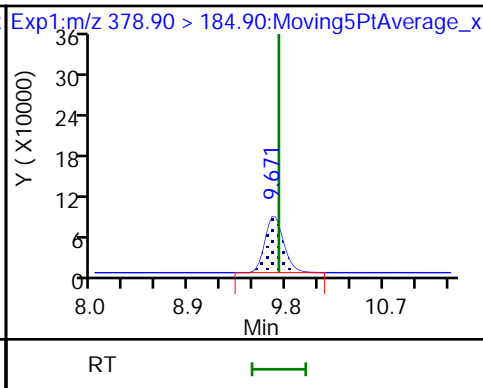
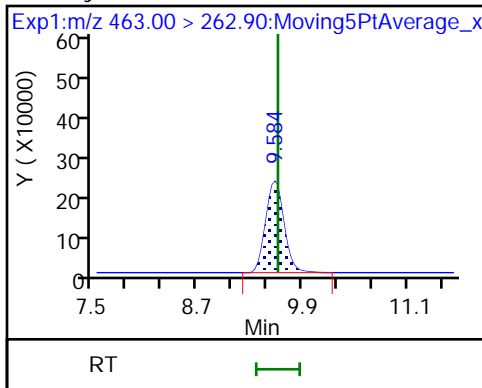
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

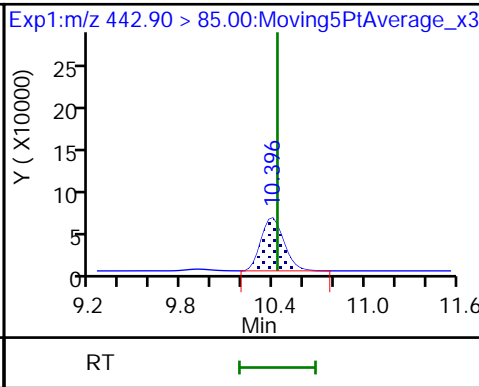
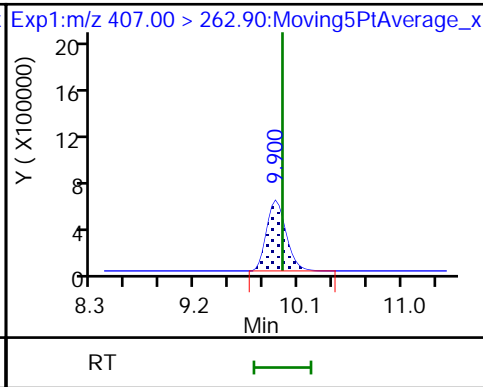
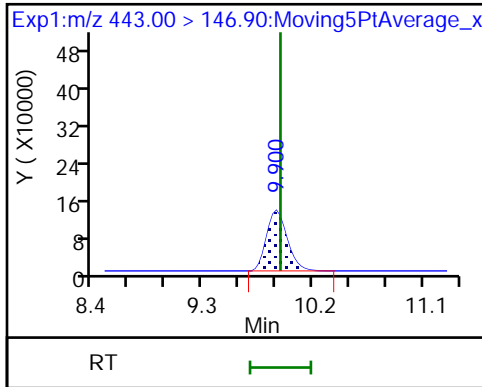
18 PFO4DA



19 PS Acid

20 EVE Acid

21 TAF





Eurofins TestAmerica, Sacramento

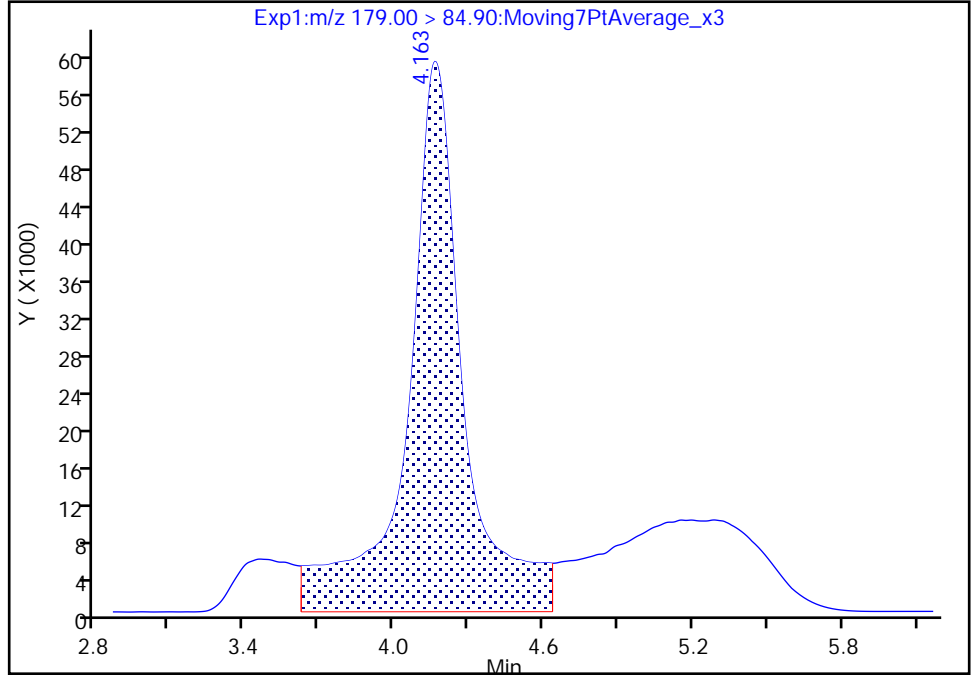
Data File: \\chromfs\Sacramento\ChromData\A12\20210212-113281.b\2021.02.13\_A12\_TB3\_A\_023.d  
Injection Date: 13-Feb-2021 12:51:18 Instrument ID: A12  
Lims ID: LCSD 320-458886/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

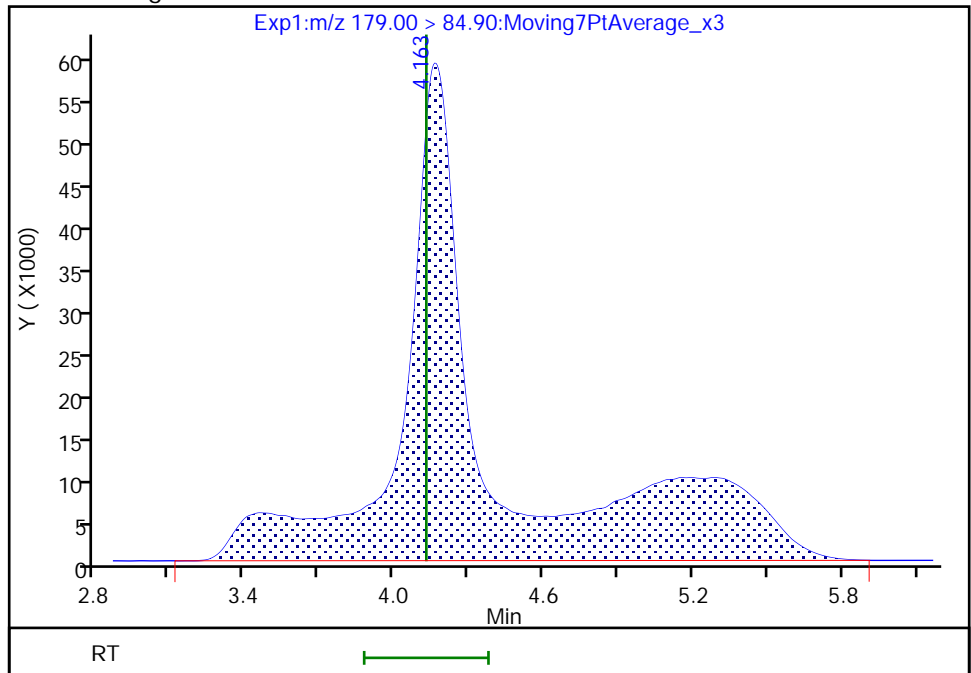
RT: 4.16  
Area: 928123  
Amount: 0.059373  
Amount Units: ng/ml

Processing Integration Results



RT: 4.16  
Area: 1465585  
Amount: 0.093754  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Feb-2021 15:59:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 520 of 540



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-462927/3-A  
 Matrix: Water Lab File ID: 2021.02.20\_A12\_TB3\_B\_023.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/17/2021 18:36  
 Sample wt/vol: 2.5 (mL) Date Analyzed: 02/21/2021 07:20  
 Con. Extract Vol.: 5.0 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 463813 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.171		0.0020	
13252-13-6	HFPO-DA	0.194		0.0020	
773804-62-9	Hydro-EVE Acid	0.184		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.211		0.0020	
749836-20-2	Hydro-PS Acid	0.182		0.0020	
1132933-86-8	NVHOS	0.168		0.0020	
267239-61-2	PEPA	0.158		0.020	
113507-82-7	PES	0.169		0.0020	
151772-58-6	PFECA B	0.176		0.0020	
801212-59-9	PFECA G	0.151		0.0020	
674-13-5	PFMOAA	0.206		0.0020	
39492-88-1	PFO2HxA	0.189		0.0020	
39492-89-2	PFO3OA	0.161		0.0020	
39492-90-5	PFO4DA	0.165		0.0020	
39492-91-6	PFO5DA	0.140		0.0020	
13140-29-9	PMPA	0.178		0.010	
29311-67-9	PS Acid	0.184		0.0020	
2416366-22-6	R-EVE	0.187		0.0020	
2416366-18-0	R-PSDA	0.170		0.0020	
2416366-21-5	R-PSDCA	0.193		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	79		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_023.d  
 Lims ID: LCSD 320-462927/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 21-Feb-2021 07:20:00 ALS Bottle#: 23 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-462927/3-a RI  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 22-Feb-2021 08:52:37 Calib Date: 18-Feb-2021 22:37:05  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210218-113596.b\2021.02.18\_TB3\_A12\_ICALAA\_020.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1626

First Level Reviewer: ruangyotsakuld Date: 22-Feb-2021 08:52:37  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.647	3.535	0.112		1254391	0.1030		103	75.0	M
2 R-EVE										M
405.00 > 217.00	6.287	6.229	0.058		550957	0.0934		93.4	6410	M
3 R-PSDA										M
440.90 > 241.00	6.347	6.289	0.058		247195	0.0848		84.8	3687	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.427	6.369	0.057		888993	0.1055		105	14678	M
23 PMPA										M
229.00 > 185.00	6.613	6.568	0.045		2185446	0.0891		89.1	1062	M
5 NVHOS										
297.00 > 135.00	7.040	6.994	0.046		792873	0.0838		83.8	12494	
6 PFO2HxA										
245.00 > 85.00	7.647	7.620	0.027		1695880	0.0946		94.6	9475	
22 PEPA										
278.90 > 234.90	8.259	8.189	0.070		830138	0.0790		79.0	1989	
7 PES										
314.90 > 135.00	8.522	8.459	0.063		3099528	0.0843		84.3	73878	
8 PFECA B										
295.00 > 201.00	8.740	8.715	0.025		1317187	0.0880		88.0	33948	
9 PFO3OA										
310.90 > 85.00	8.985	8.957	0.028		646694	0.0807		80.7	10194	
11 HPFO-DA										
285.00 > 169.00	9.074	9.048	0.026	1.000	815369	0.0972		97.2	22230	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.074	9.048	0.026		1869170	0.1969		78.7	51146	
12 R-PSDCA										
397.00 > 217.00	9.458	9.396	0.062		5907069	0.0966		96.6	112234	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.490	9.428	0.062		7165715	0.0922		92.2	70269	
D 14 13C4 PFHpA										
367.00 > 322.00	9.490	9.461	0.029		7547125	0.2091		83.6	145482	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.490	9.461	0.029	1.000	2775013	0.0851	Target=0.00	85.1	9297	
363.00 > 169.00	9.490	9.461	0.029	1.000	791575		3.51(0.00-0.00)		12183	
15 Hydro-PS Acid										
463.00 > 262.90	9.522	9.461	0.061		2926008	0.0910		91.0	64640	
17 PFECA G										
378.90 > 184.90	9.616	9.591	0.025		678218	0.0754		75.4	18532	
18 PFO4DA										
376.90 > 85.00	9.760	9.705	0.055		671274	0.0825		82.5	8147	
20 EVE Acid										
407.00 > 262.90	9.846	9.791	0.055		5054256	0.0856		85.6	106318	
19 PS Acid										
443.00 > 146.90	9.817	9.791	0.026		1330705	0.0920		92.0	37376	
21 TAF										
442.90 > 85.00	10.322	10.296	0.026		497074	0.0699		69.9	1395	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A12\20210221-113692.b\2021.02.20\_A12\_TB3\_B\_023.d

Injection Date: 21-Feb-2021 07:20:00

Instrument ID: A12

Lims ID: LCSD 320-462927/3-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 23

Worklist Smp#: 12

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

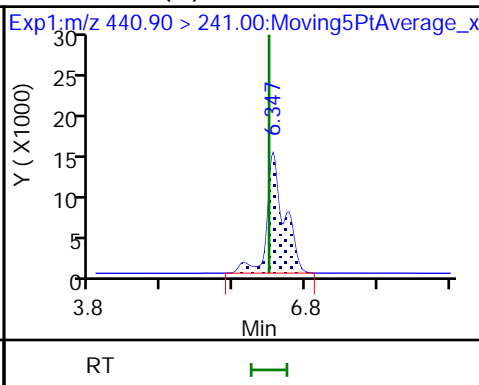
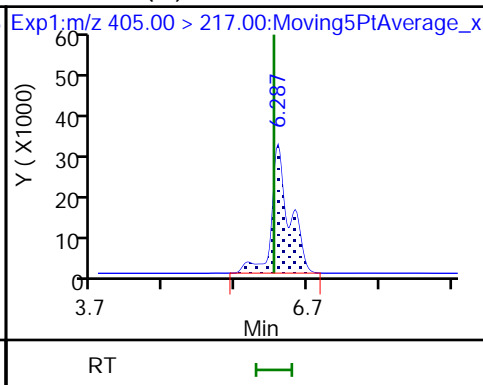
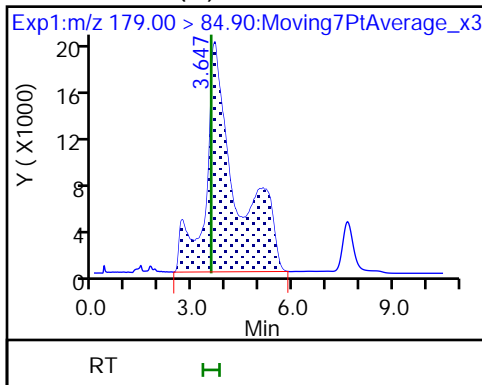
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

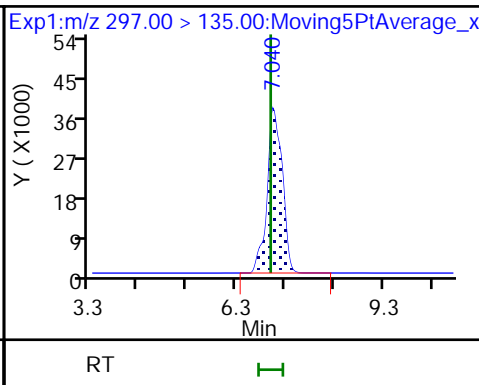
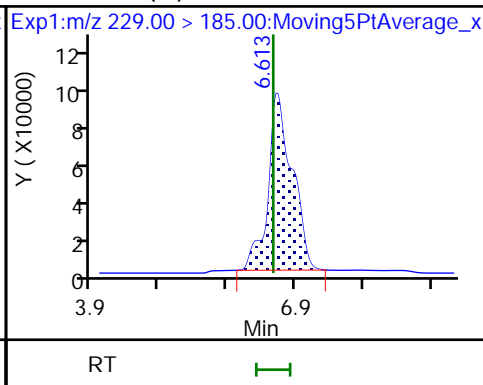
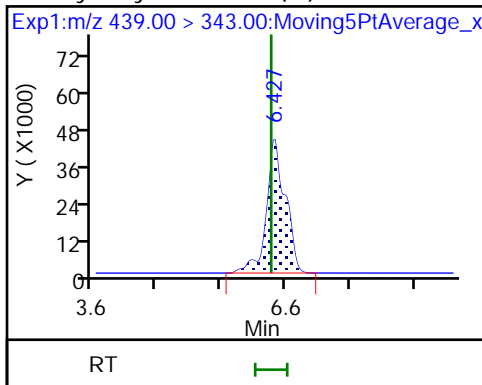
3 R-PSDA (M)



4 Hydrolyzed PSDA (M)

23 PMPA (M)

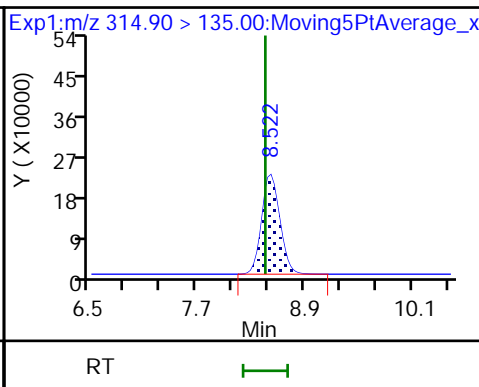
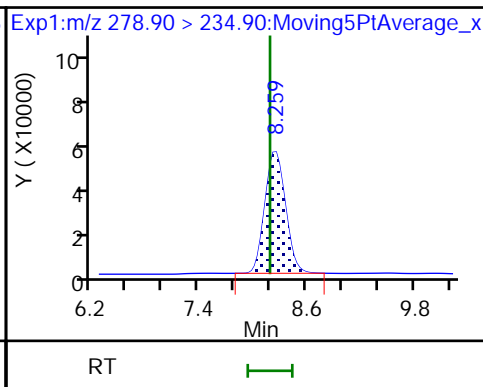
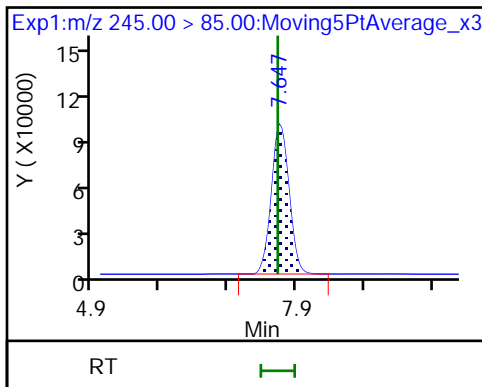
5 NVHOS



6 PFO2HxA

22 PEPA

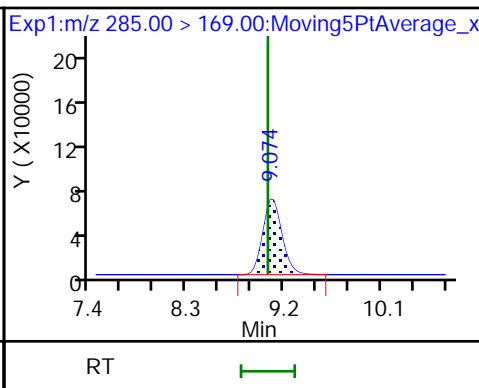
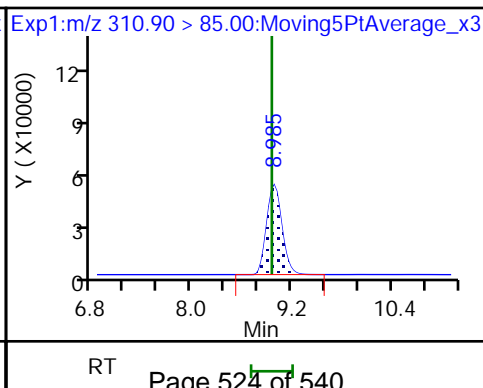
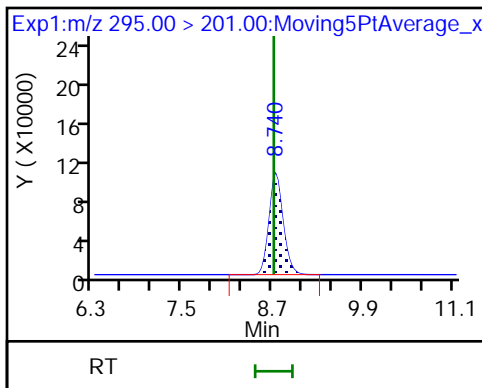
7 PES



8 PFECA B

9 PFO3OA

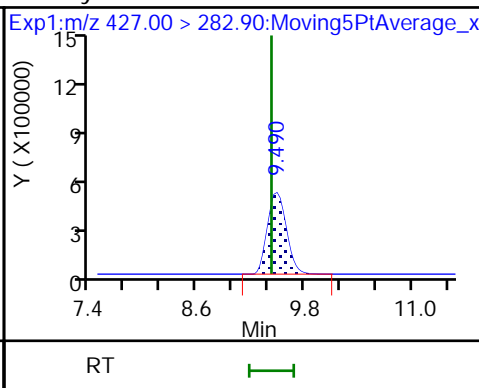
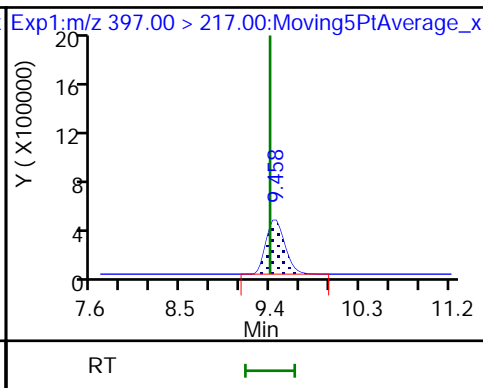
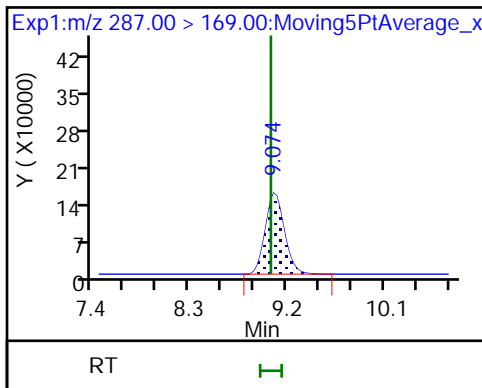
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

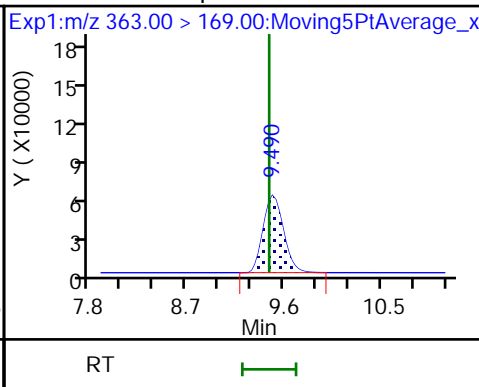
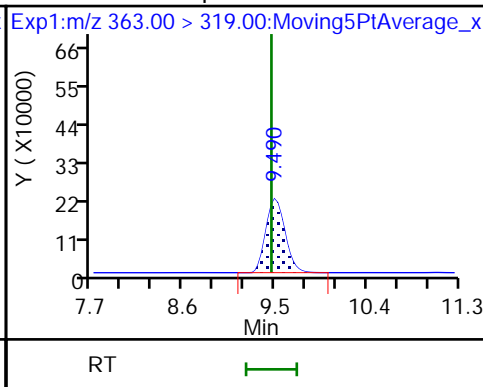
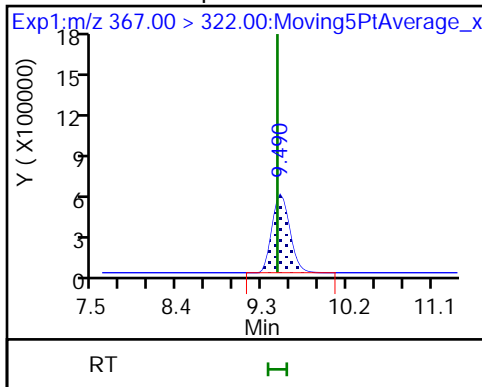
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

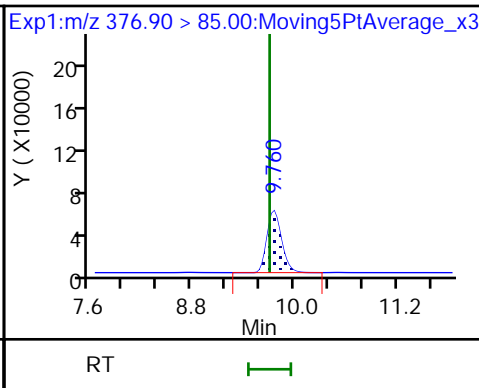
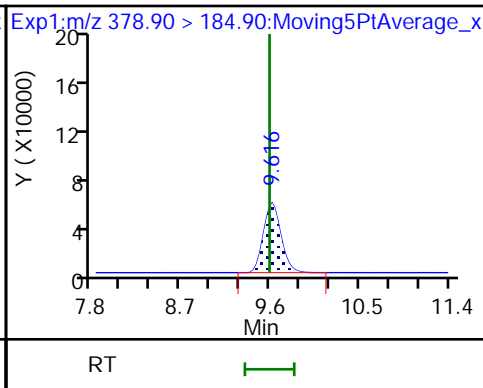
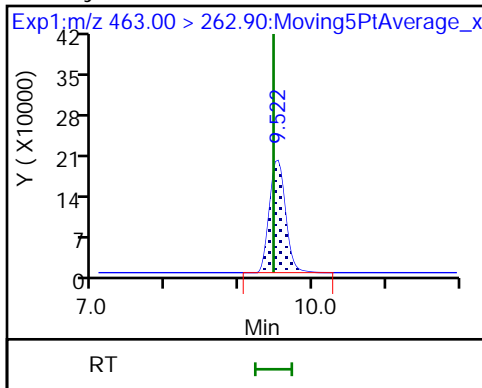
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

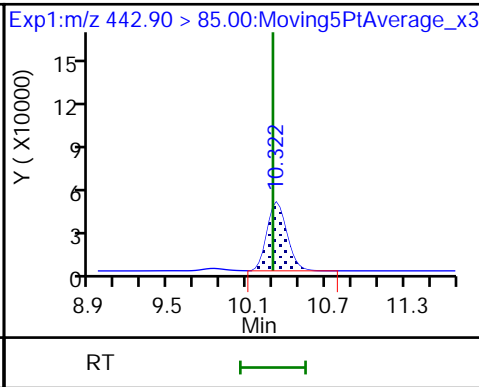
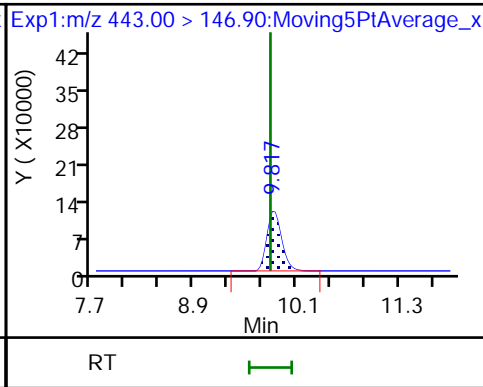
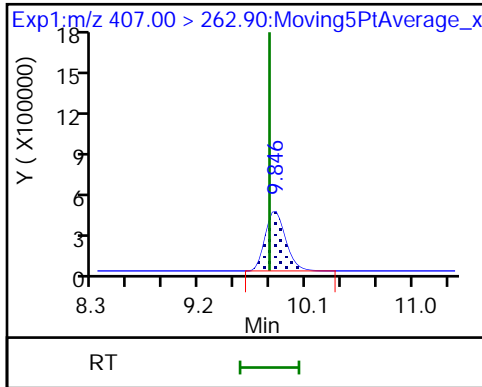
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





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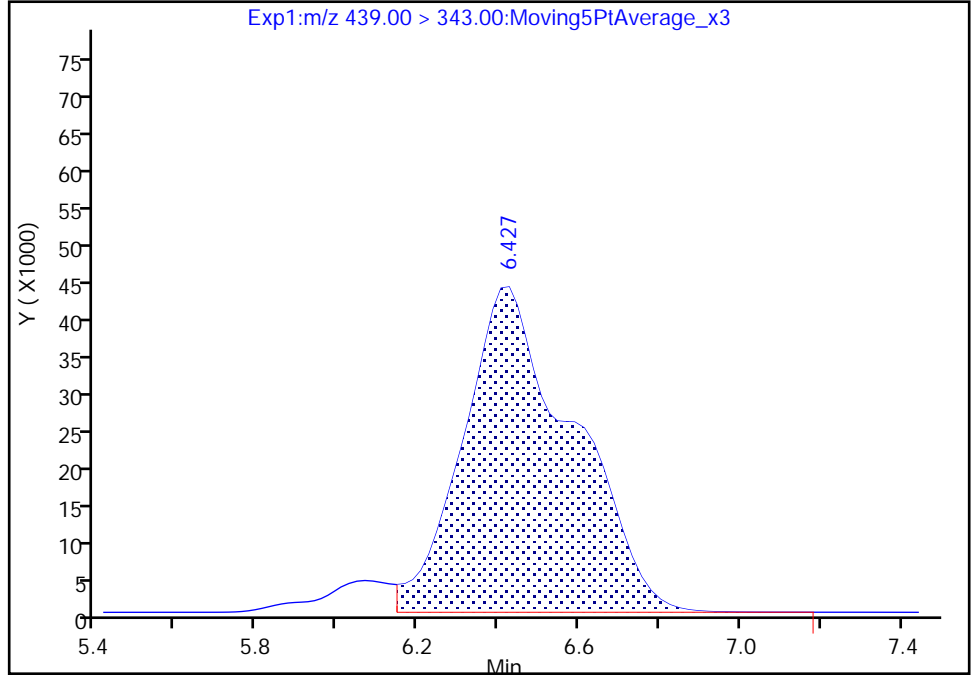
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Injection Date: 21-Feb-2021 07:20:00 Instrument ID: A12  
Lims ID: LCSD 320-462927/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

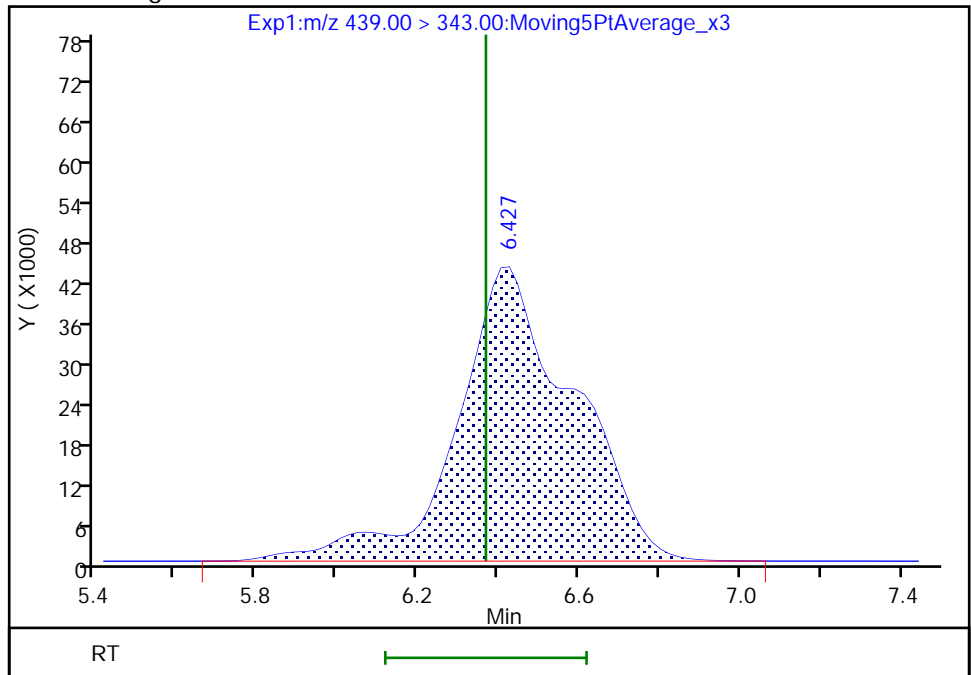
RT: 6.43  
Area: 836354  
Amount: 0.099230  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 888993  
Amount: 0.105476  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

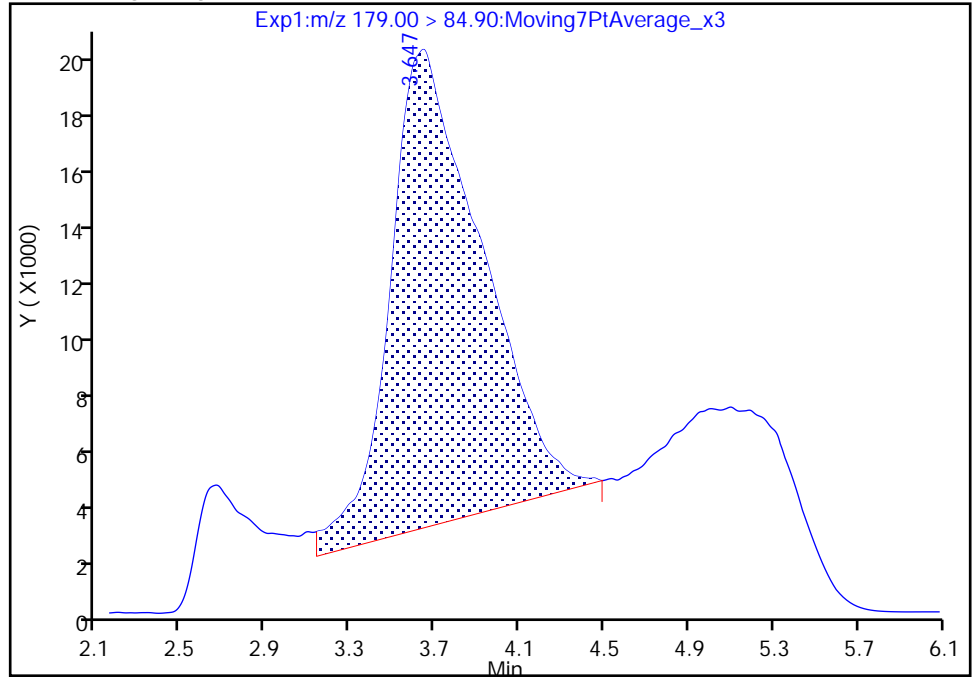
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Injection Date: 21-Feb-2021 07:20:00 Instrument ID: A12  
Lims ID: LCSD 320-462927/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

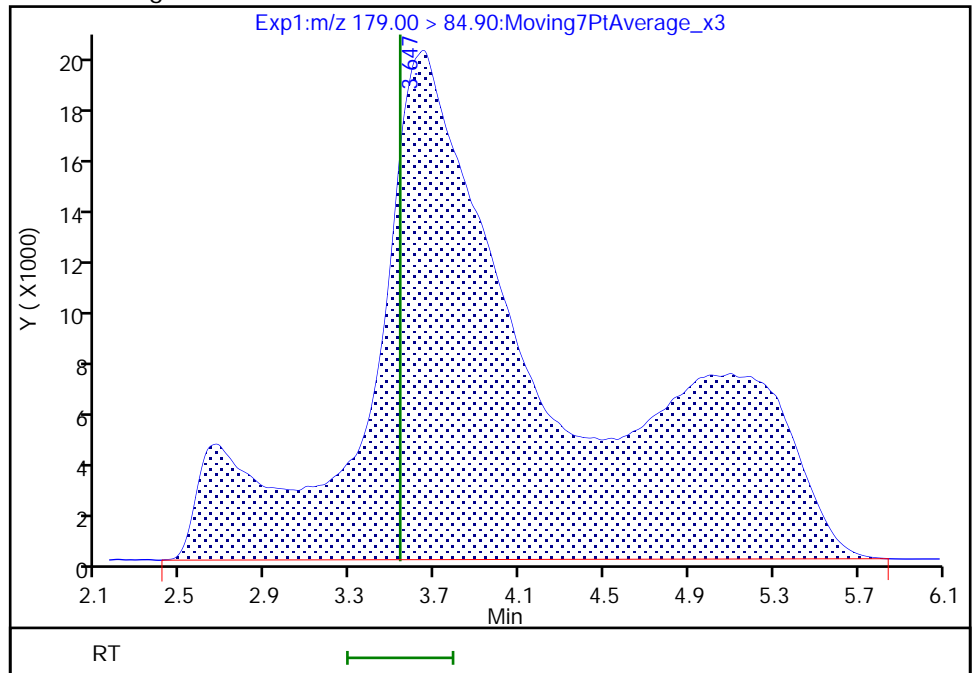
RT: 3.65  
Area: 505495  
Amount: 0.041493  
Amount Units: ng/ml

Processing Integration Results



RT: 3.65  
Area: 1254391  
Amount: 0.102964  
Amount Units: ng/ml

Manual Integration Results



Reviewer: contrerases, 21-Feb-2021 09:30:56  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

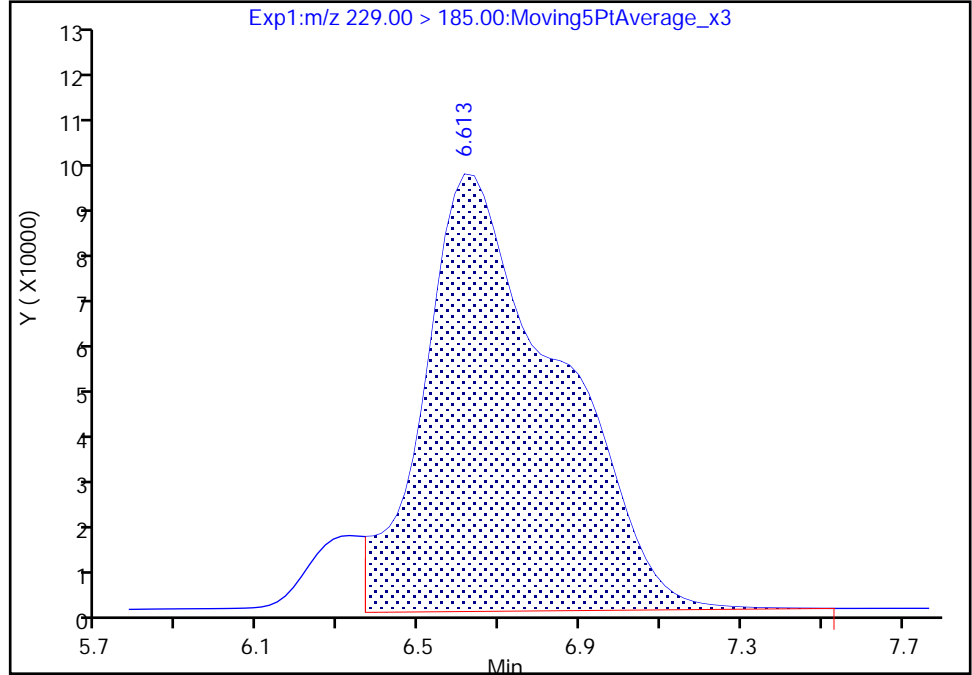
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Injection Date: 21-Feb-2021 07:20:00 Instrument ID: A12  
Lims ID: LCSD 320-462927/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

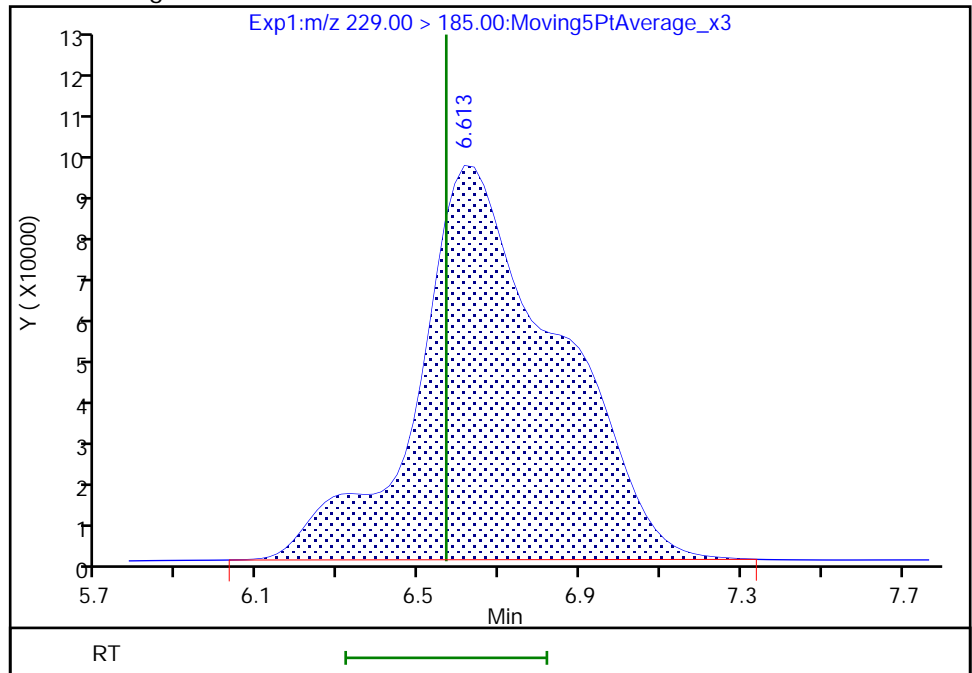
RT: 6.61  
Area: 2082098  
Amount: 0.084928  
Amount Units: ng/ml

Processing Integration Results



RT: 6.61  
Area: 2185446  
Amount: 0.089143  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:52:19

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

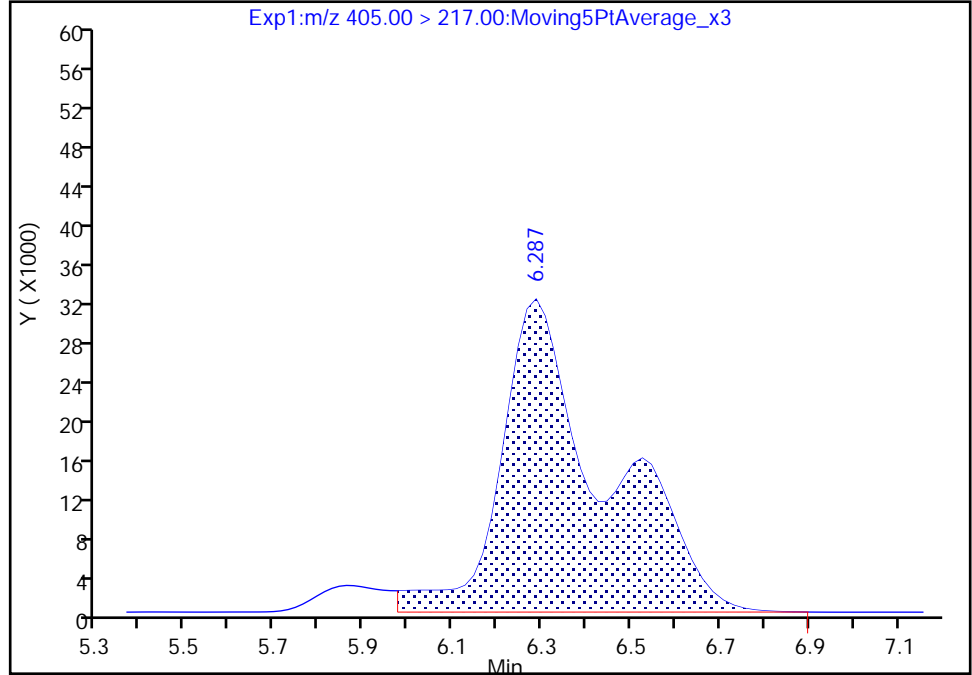
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Injection Date: 21-Feb-2021 07:20:00 Instrument ID: A12  
Lims ID: LCSD 320-462927/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

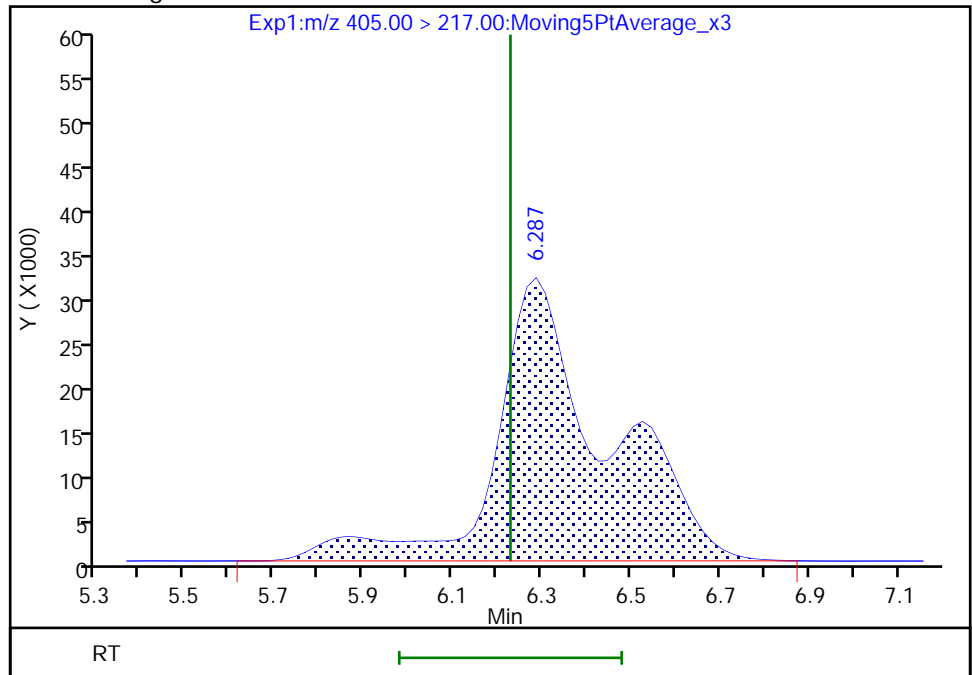
RT: 6.29  
Area: 521987  
Amount: 0.088511  
Amount Units: ng/ml

Processing Integration Results



RT: 6.29  
Area: 550957  
Amount: 0.093423  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

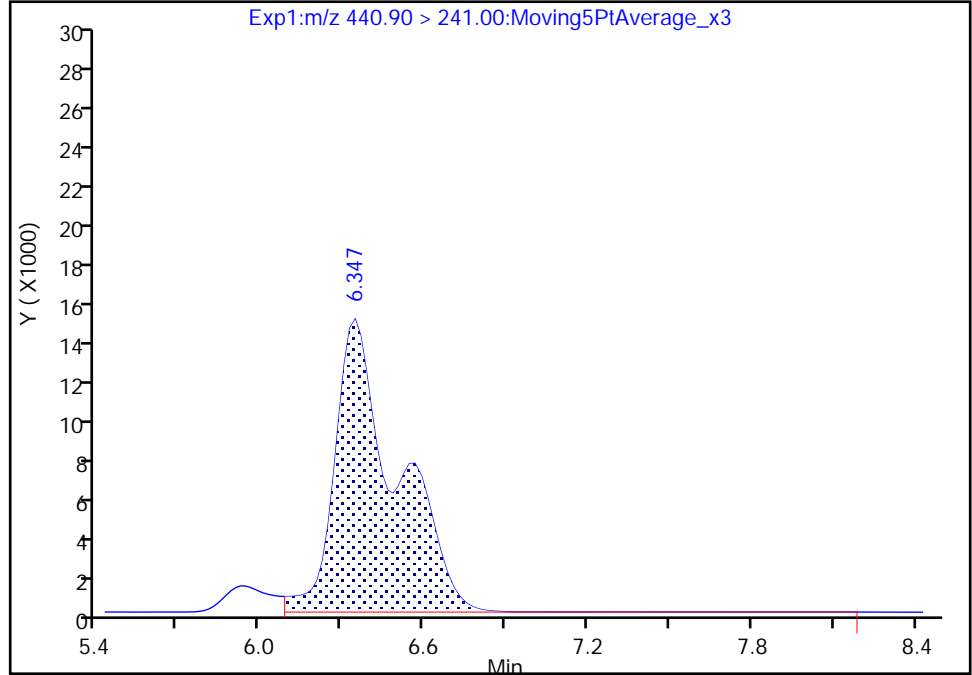
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Injection Date: 21-Feb-2021 07:20:00 Instrument ID: A12  
Lims ID: LCSD 320-462927/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 23 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

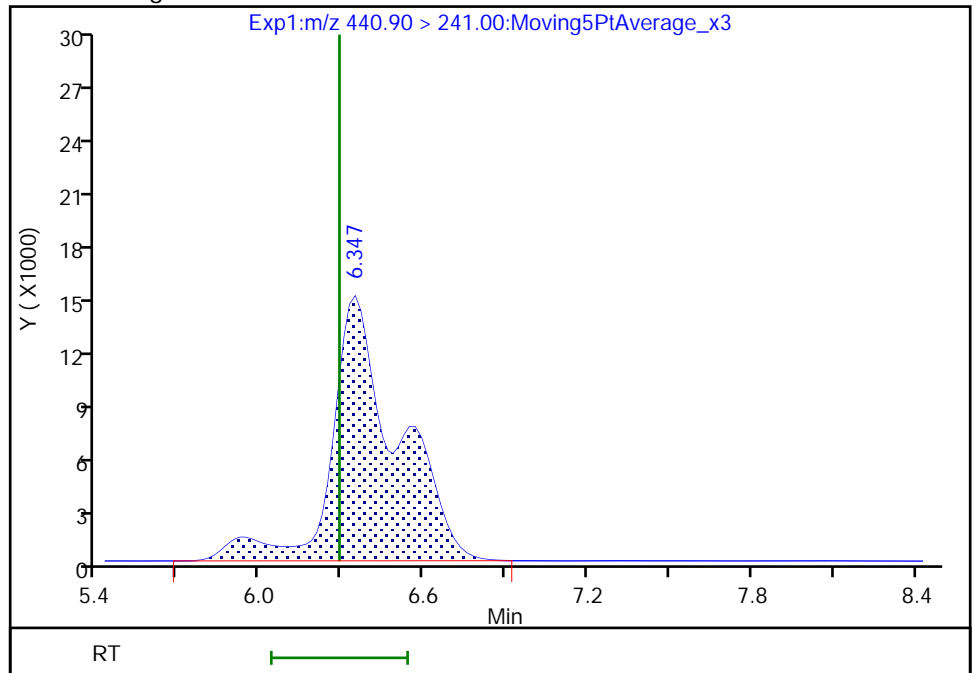
RT: 6.35  
Area: 232811  
Amount: 0.079910  
Amount Units: ng/ml

Processing Integration Results



RT: 6.35  
Area: 247195  
Amount: 0.084847  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 22-Feb-2021 08:52:10

Audit Action: Manually Integrated

Audit Reason: Baseline

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 02/06/2021 12:24

Analysis Batch Number: 459394 End Date: 02/06/2021 16:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/06/2021 12:24	1		GeminiC18 3x100 3(mm)
IC 320-459394/2		02/06/2021 12:42	1	2020.02.06_A12_TB3 ICAL 004.d	GeminiC18 3x100 3(mm)
IC 320-459394/3		02/06/2021 12:59	1	2020.02.06_A12_TB3 ICAL 005.d	GeminiC18 3x100 3(mm)
IC 320-459394/4		02/06/2021 13:17	1	2020.02.06_A12_TB3 ICAL 006.d	GeminiC18 3x100 3(mm)
IC 320-459394/5		02/06/2021 13:34	1	2020.02.06_A12_TB3 ICAL 007.d	GeminiC18 3x100 3(mm)
IC 320-459394/6		02/06/2021 13:52	1	2020.02.06_A12_TB3 ICAL 008.d	GeminiC18 3x100 3(mm)
IC 320-459394/7		02/06/2021 14:09	1	2020.02.06_A12_TB3 ICAL 009.d	GeminiC18 3x100 3(mm)
IC 320-459394/8		02/06/2021 14:27	1	2020.02.06_A12_TB3 ICAL 010.d	GeminiC18 3x100 3(mm)
ICB 320-459394/9		02/06/2021 14:45	1		GeminiC18 3x100 3(mm)
IC 320-459394/10		02/06/2021 15:02	1	2020.02.06_A12_TB3 ICAL 012.d	GeminiC18 3x100 3(mm)
ICB 320-459394/11		02/06/2021 15:20	1		GeminiC18 3x100 3(mm)
IC 320-459394/12		02/06/2021 15:37	1	2020.02.06_A12_TB3 ICAL 014.d	GeminiC18 3x100 3(mm)
IC 320-459394/13		02/06/2021 15:55	1	2020.02.06_A12_TB3 ICAL 015.d	GeminiC18 3x100 3(mm)
ICB 320-459394/14		02/06/2021 16:12	1		GeminiC18 3x100 3(mm)
ICV 320-459394/15		02/06/2021 16:30	1	2020.02.06_A12_TB3 ICAL 017.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 02/13/2021 09:37

Analysis Batch Number: 461727 End Date: 02/13/2021 17:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-461727/1		02/13/2021 09:37	1	2021.02.13_A12_TB3 A 012.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 09:55	1		GeminiC18 3x100 3(mm)
MB 320-458886/1-A		02/13/2021 10:12	1	2021.02.13_A12_TB3 A 014.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 10:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 10:47	1		GeminiC18 3x100 3(mm)
320-69608-3	SEEP-C-EQBLK-ISCO-012921	02/13/2021 11:05	1	2021.02.13_A12_TB3 A 017.d	GeminiC18 3x100 3(mm)
320-69608-4	SEEP-C-FBLK-012921	02/13/2021 11:23	1	2021.02.13_A12_TB3 A 018.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 11:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 11:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 12:16	1		GeminiC18 3x100 3(mm)
LCS 320-458886/2-A		02/13/2021 12:33	1	2021.02.13_A12_TB3 A 022.d	GeminiC18 3x100 3(mm)
LCSD 320-458886/3-A		02/13/2021 12:51	1	2021.02.13_A12_TB3 A 023.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 13:08	1		GeminiC18 3x100 3(mm)
CCV 320-461727/14		02/13/2021 13:26	1	2021.02.13_A12_TB3 A 025.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 13:44	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 14:01	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 14:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 14:37	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 14:54	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 15:12	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 15:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 15:47	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 16:05	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 16:22	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 16:40	1		GeminiC18 3x100 3(mm)
CCV 320-461727/26		02/13/2021 16:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/13/2021 17:15	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 02/18/2021 18:48

Analysis Batch Number: 463313 End Date: 02/18/2021 23:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-463313/2		02/18/2021 18:48	1	2021.02.18_TB3_A12_ICALAA_007.d	GeminiC18 3x100 3(mm)
IC 320-463313/3		02/18/2021 19:06	1	2021.02.18_TB3_A12_ICALAA_008.d	GeminiC18 3x100 3(mm)
IC 320-463313/4		02/18/2021 19:23	1	2021.02.18_TB3_A12_ICALAA_009.d	GeminiC18 3x100 3(mm)
IC 320-463313/5		02/18/2021 19:41	1	2021.02.18_TB3_A12_ICALAA_010.d	GeminiC18 3x100 3(mm)
IC 320-463313/6		02/18/2021 19:59	1	2021.02.18_TB3_A12_ICALAA_011.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 20:16	1		GeminiC18 3x100 3(mm)
IC 320-463313/8		02/18/2021 20:34	1	2021.02.18_TB3_A12_ICALAA_013.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 20:51	1		GeminiC18 3x100 3(mm)
IC 320-463313/10		02/18/2021 21:09	1	2021.02.18_TB3_A12_ICALAA_015.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 21:26	1		GeminiC18 3x100 3(mm)
IC 320-463313/12		02/18/2021 21:44	1	2021.02.18_TB3_A12_ICALAA_017.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 22:02	1		GeminiC18 3x100 3(mm)
IC 320-463313/14		02/18/2021 22:19	1	2021.02.18_TB3_A12_ICALAA_019.d	GeminiC18 3x100 3(mm)
IC 320-463313/16		02/18/2021 22:37	1	2021.02.18_TB3_A12_ICALAA_020.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 22:54	1		GeminiC18 3x100 3(mm)
ICV 320-463313/18		02/18/2021 23:12	1	2021.02.18_TB3_A12_ICALAA_022.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/18/2021 23:29	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 02/21/2021 04:06

Analysis Batch Number: 463813 End Date: 02/21/2021 10:51

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-463813/1		02/21/2021 04:06	1	2021.02.20_A12_TB3 B 012.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 04:23	1		GeminiC18 3x100 3(mm)
MB 320-462927/1-A		02/21/2021 04:41	1	2021.02.20_A12_TB3 B 014.d	GeminiC18 3x100 3(mm)
320-69608-1	SEEP-C-EFFLUENT-216-012921	02/21/2021 04:58	1	2021.02.20_A12_TB3 B 015.d	GeminiC18 3x100 3(mm)
320-69608-2	SEEP-C-INFLUENT-228-012921	02/21/2021 05:16	1	2021.02.20_A12_TB3 B 016.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 05:34	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 05:51	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 06:09	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 06:27	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 06:44	5		GeminiC18 3x100 3(mm)
LCS 320-462927/2-A		02/21/2021 07:02	1	2021.02.20_A12_TB3 B 022.d	GeminiC18 3x100 3(mm)
LCSD 320-462927/3-A		02/21/2021 07:20	1	2021.02.20_A12_TB3 B 023.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 07:37	1		GeminiC18 3x100 3(mm)
CCV 320-463813/14		02/21/2021 07:55	1	2021.02.20_A12_TB3 B 025.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 08:12	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 08:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 08:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 09:05	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 09:23	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 09:41	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 09:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 10:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/21/2021 10:34	1		GeminiC18 3x100 3(mm)
CCV 320-463813/24		02/21/2021 10:51	1	2021.02.20_A12_TB3 B 035.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Batch Number: 458886 Batch Start Date: 02/04/21 18:50 Batch Analyst: Vue, Pheng

Batch Method: PFAS Prep Batch End Date: 02/04/21 23:33

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00021	LCTB3_SP 00063	AnalysisComment	
MB 320-458886/1		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL		H2O/MeOH	
LCS 320-458886/2		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
LCSD 320-458886/3		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
320-69608-A-3	SEEP-C-EQBLK-ISC O-012921	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7.0	
320-69608-A-4	SEEP-C-FBLK-012921	PFAS Prep, Chemours (TB3+)	T	2.5 mL	5.0 mL	250 uL		pH: 7.0	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.



LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-69608-1

SDG No.: \_\_\_\_\_

Batch Number: 462927 Batch Start Date: 02/17/21 18:35 Batch Analyst: Vue, Pheng

Batch Method: PFAS Prep Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00021	LCTB3_SP 00063	AnalysisComment	
MB 320-462927/1		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL		H2O/MeOH	
LCS 320-462927/2		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
LCSD 320-462927/3		PFAS Prep, Chemours (TB3+)		2.5 mL	5.0 mL	250 uL	100 uL		
320-69608-A-1	SEEP-C-EFFLUENT-216-012921	PFAS Prep, Chemours (TB3+)	T	0.25 mL	5.0 mL	250 uL		pH: 7	
320-69608-A-2	SEEP-C-INFLUENT-228-012921	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.0 mL	250 uL		pH: 7	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Chemours (TB3+)

# Shipping and Receiving Documents

# Chain of Custody Record

Sacramento, CA 95605  
(916) 373-5600

Regulatory Program:  DW  NPDES  RCRA  Other:

<b>Client Contact</b>		<b>Site Contact: Christel Compton</b>		<b>Date: 02/01/2021</b>		<b>COC No: PAR-050720-2</b>	
<b>Chemours</b>		<b>Lab Contact:</b>		<b>Carrier: FedEx</b>		<b>1 of 1 COCs</b>	
22828 NC HWY 87 W		<b>Analysis Turnaround Time</b>					
Fayetteville, NC 28306		<input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS					
910-678-1213		TAT if different from Below _____					
Project Name: Seep Flow Through Cell Sampling 2021		<input checked="" type="checkbox"/> 2 weeks					
Site: Chemours Fayetteville Works Plant		<input type="checkbox"/> 1 week					
P O #		<input type="checkbox"/> 2 days					
		<input type="checkbox"/> 1 day					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)		Perform MS/MSD (Y/N)		Table 3 (20) HL		Table 3 (20) LL		Sample Specific Notes:
						Y	N	Y	N	Y	N	Y	N	
SEEP-C-EFFLUENT-216-012921	1/29/2021	14:00	C	W	8	N	X	N	X					Hold All Remaining Volumes as Retains
SEEP-C-INFLUENT-228-012921	1/29/2021	14:00	C	W	8	N	X	N	X					
SEEP-C-EQBLK-ISCO-012921	1/29/2021	12:30	G	W	8	N	X	N	X					
SEEP-C-FBLK-012921	1/29/2021	13:00	G	W	8	N	X	N	X					



**Preservation Used:** 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

**Possible Hazard Identification:** Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

Return to Client  Disposal by Lab  Archive for \_\_\_\_\_ Months

<b>Relinquished by:</b>	<b>Custody Seal No.:</b> 146055	<b>Company:</b> PARSONS	<b>Date/Time:</b> 7/11/17	<b>Received by:</b>	<b>Company:</b> eta sac	<b>Date/Time:</b> 02/02/21	<b>Therm ID No.:</b> 950
<b>Relinquished by:</b>				<b>Received by:</b>			
<b>Relinquished by:</b>				<b>Received in Laboratory by:</b>			

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-69608-1

**Login Number: 69608**  
**List Number: 1**  
**Creator: Oropeza, Salvador**

**List Source: Eurofins TestAmerica, Sacramento**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1460055
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Job Number: 320-70306-1

Job Description: FAY-Seep Flow Through Cell Sampling 2021

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
2/27/2021 2:48 PM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
02/27/2021

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Sacramento**

880 Riverside Parkway, West Sacramento, CA 95605

Tel (916) 373-5600 Fax (916) 372-1059 [www.testamericainc.com](http://www.testamericainc.com)



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▣	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2021**  
**Report Number: 320-70306-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Sample Arrival and Receipt**

The samples were received on 2/19/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

**Receipt Exceptions**

In accordance with the revised Chain-of-Custody received 2/25/2021, the ID for sample SEEP-C-FBLK-012921 (320-70306-6) was revised to SEEP-C-FBLK-021321.

No other anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-EFFLUENT-192-021321 (320-70306-1), SEEP-C-INFLUENT-192-021321 (320-70306-2), SEEP-C-RAIN-EFFLUENT-24-021321 (320-70306-3), SEEP-C-RAIN-INFLUENT-24-021321 (320-70306-4), SEEP-C-EQBLK-ISCO-021321 (320-70306-5), SEEP-C-FBLK-021321 (320-70306-6) and SEEP-C-RAIN-EQBLK-ISCO-021321 (320-70306-7) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared on 02/22/2021 and analyzed on 02/24/2021 and 02/25/2021.

Results for samples SEEP-C-INFLUENT-192-021321 (320-70306-2) and SEEP-C-RAIN-INFLUENT-24-021321 (320-70306-4) were reported from the analysis of a diluted extract in order to bring the concentration of target analytes within the calibration range. The surrogate recoveries were calculated from diluted samples. The reporting limits have been adjusted relative to the dilutions required.

The project required MS and Sample Duplicate could not be performed for prep batch 320-464016, due to either being from a different job/SDG or due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70306-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70306-1	SEEP-C-EFFLUENT-192-021321	EVE Acid	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	HFPO-DA	0.059	0.059	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	Hydro-EVE Acid	0.0033	0.0033	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	Hydrolyzed PSDA	0.0043	0.0043	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	NVHOS	0.0023	0.0023	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PEPA	<0.020	<0.020	0.020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PES	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFECA B	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFECA G	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFMOAA	0.30	0.30	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFO2HxA	0.065	0.065	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFO3OA	0.031	0.031	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFO4DA	0.012	0.012	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PFO5DA	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	PMPA	0.059	0.059	0.010
320-70306-1	SEEP-C-EFFLUENT-192-021321	PS Acid	<0.0020	<0.0020	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	R-EVE	0.0033	0.0033	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	R-PSDA	0.0046	0.0046	0.0020
320-70306-1	SEEP-C-EFFLUENT-192-021321	R-PSDCA	<0.0020	<0.0020	0.0020
320-70306-2	SEEP-C-INFLUENT-192-021321	EVE Acid	<0.0087	<0.0087	0.0087
320-70306-2	SEEP-C-INFLUENT-192-021321	HFPO-DA	15	15	0.041
320-70306-2	SEEP-C-INFLUENT-192-021321	Hydro-EVE Acid	1.1	1.1	0.0072
320-70306-2	SEEP-C-INFLUENT-192-021321	Hydrolyzed PSDA	1.0	1.0	0.019
320-70306-2	SEEP-C-INFLUENT-192-021321	Hydro-PS Acid	0.33	0.33	0.0031
320-70306-2	SEEP-C-INFLUENT-192-021321	NVHOS	0.68	0.68	0.0073
320-70306-2	SEEP-C-INFLUENT-192-021321	PEPA	3.0	3.0	0.020
320-70306-2	SEEP-C-INFLUENT-192-021321	PES	0.0044	0.0044	0.0034
320-70306-2	SEEP-C-INFLUENT-192-021321	PFECA B	<0.013	<0.013	0.013
320-70306-2	SEEP-C-INFLUENT-192-021321	PFECA G	<0.024	<0.024	0.024
320-70306-2	SEEP-C-INFLUENT-192-021321	PFMOAA	71	71	0.040
320-70306-2	SEEP-C-INFLUENT-192-021321	PFO2HxA	25	25	0.013
320-70306-2	SEEP-C-INFLUENT-192-021321	PFO3OA	7.1	7.1	0.020
320-70306-2	SEEP-C-INFLUENT-192-021321	PFO4DA	2.9	2.9	0.030
320-70306-2	SEEP-C-INFLUENT-192-021321	PFO5DA	0.081	0.081	0.039
320-70306-2	SEEP-C-INFLUENT-192-021321	PMPA	7.7	7.7	0.31
320-70306-2	SEEP-C-INFLUENT-192-021321	PS Acid	<0.0098	<0.0098	0.0098
320-70306-2	SEEP-C-INFLUENT-192-021321	R-EVE	0.77	0.77	0.036
320-70306-2	SEEP-C-INFLUENT-192-021321	R-PSDA	0.85	0.85	0.035
320-70306-2	SEEP-C-INFLUENT-192-021321	R-PSDCA	0.016	0.016	0.0087
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	EVE Acid	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	HFPO-DA	0.024	0.024	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70306-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	NVHOS	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PEPA	<0.020	<0.020	0.020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PES	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFECA B	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFECA G	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFMOAA	0.19	0.19	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFO2HxA	0.039	0.039	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFO3OA	0.012	0.012	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFO4DA	0.0039	0.0039	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFO5DA	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PMPA	0.031	0.031	0.010
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	PS Acid	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	R-EVE	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	R-PSDA	<0.0020	<0.0020	0.0020
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	R-PSDCA	<0.0020	<0.0020	0.0020
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	EVE Acid	<0.0087	<0.0087	0.0087
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	HFPO-DA	13	13	0.041
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Hydro-EVE Acid	1.1	1.1	0.0072
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Hydrolyzed PSDA	1.0	1.0	0.019
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Hydro-PS Acid	0.34	0.34	0.0031
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	NVHOS	0.67	0.67	0.0073
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PEPA	2.8	2.8	0.020
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PES	0.0041	0.0041	0.0034
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFECA B	<0.013	<0.013	0.013
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFECA G	<0.024	<0.024	0.024
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFMOAA	69	69	0.040
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFO2HxA	25	25	0.013
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFO3OA	6.8	6.8	0.020
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFO4DA	3.0	3.0	0.030
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PFO5DA	0.083	0.083	0.039
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PMPA	7.3	7.3	0.31
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	PS Acid	<0.0098	<0.0098	0.0098
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	R-EVE	0.77	0.77	0.036
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	R-PSDA	0.81	0.81	0.035
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	R-PSDCA	0.014	0.014	0.0087
320-70306-5	SEEP-C-EQBLK-ISCO-021321	EVE Acid	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	HFPO-DA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70306-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	NVHOS	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PEPA	<0.020	<0.020	0.020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PES	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFECA B	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFECA G	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFMOAA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFO2HxA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFO3OA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFO4DA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PFO5DA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PMPA	<0.010	<0.010	0.010
320-70306-5	SEEP-C-EQBLK-ISCO-021321	PS Acid	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	R-EVE	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	R-PSDA	<0.0020	<0.0020	0.0020
320-70306-5	SEEP-C-EQBLK-ISCO-021321	R-PSDCA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	EVE Acid	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	HFPO-DA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	NVHOS	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PEPA	<0.020	<0.020	0.020
320-70306-6	SEEP-C-FBLK-021321	PES	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFECA B	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFECA G	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFMOAA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFO2HxA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFO3OA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFO4DA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PFO5DA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	PMPA	<0.010	<0.010	0.010
320-70306-6	SEEP-C-FBLK-021321	PS Acid	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	R-EVE	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	R-PSDA	<0.0020	<0.0020	0.0020
320-70306-6	SEEP-C-FBLK-021321	R-PSDCA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	EVE Acid	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	HFPO-DA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	NVHOS	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70306-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PEPA	<0.020	<0.020	0.020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PES	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFECA B	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFECA G	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFMOAA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFO2HxA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFO3OA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFO4DA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFO5DA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PMPA	<0.010	<0.010	0.010
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PS Acid	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	R-EVE	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	R-PSDA	<0.0020	<0.0020	0.0020
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-EFFLUENT-192-021321**

**Lab Sample ID: 320-70306-1**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.059		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	0.0033		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.0043		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.0023		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	0.30		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	0.065		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	0.031		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.012		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	0.059		0.010		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.0033		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.0046		0.0020		ug/L	1		Chemours (TB3+)	Total/NA

**Client Sample ID: SEEP-C-INFLUENT-192-021321**

**Lab Sample ID: 320-70306-2**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	15		0.041		ug/L	50		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.1		0.0072		ug/L	50		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.0		0.019		ug/L	50		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.33		0.0031		ug/L	50		Chemours (TB3+)	Total/NA
NVHOS	0.68		0.0073		ug/L	50		Chemours (TB3+)	Total/NA
PEPA	3.0		0.020		ug/L	50		Chemours (TB3+)	Total/NA
PES	0.0044		0.0034		ug/L	50		Chemours (TB3+)	Total/NA
PFMOAA	71		0.040		ug/L	50		Chemours (TB3+)	Total/NA
PFO2HxA	25		0.013		ug/L	50		Chemours (TB3+)	Total/NA
PFO3OA	7.1		0.020		ug/L	50		Chemours (TB3+)	Total/NA
PFO4DA	2.9		0.030		ug/L	50		Chemours (TB3+)	Total/NA
PFO5DA	0.081		0.039		ug/L	50		Chemours (TB3+)	Total/NA
PMPA	7.7		0.31		ug/L	50		Chemours (TB3+)	Total/NA
R-EVE	0.77		0.036		ug/L	50		Chemours (TB3+)	Total/NA
R-PSDA	0.85		0.035		ug/L	50		Chemours (TB3+)	Total/NA
R-PSDCA	0.016		0.0087		ug/L	50		Chemours (TB3+)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-021321

## Lab Sample ID: 320-70306-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	0.024		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	0.19		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	0.039		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	0.012		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.0039		0.0020		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	0.031		0.010		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-RAIN-INFLUENT-24-021321

## Lab Sample ID: 320-70306-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
HFPO-DA	13		0.041		ug/L	50		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	1.1		0.0072		ug/L	50		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	1.0		0.019		ug/L	50		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.34		0.0031		ug/L	50		Chemours (TB3+)	Total/NA
NVHOS	0.67		0.0073		ug/L	50		Chemours (TB3+)	Total/NA
PEPA	2.8		0.020		ug/L	50		Chemours (TB3+)	Total/NA
PES	0.0041		0.0034		ug/L	50		Chemours (TB3+)	Total/NA
PFMOAA	69		0.040		ug/L	50		Chemours (TB3+)	Total/NA
PFO2HxA	25		0.013		ug/L	50		Chemours (TB3+)	Total/NA
PFO3OA	6.8		0.020		ug/L	50		Chemours (TB3+)	Total/NA
PFO4DA	3.0		0.030		ug/L	50		Chemours (TB3+)	Total/NA
PFO5DA	0.083		0.039		ug/L	50		Chemours (TB3+)	Total/NA
PMPA	7.3		0.31		ug/L	50		Chemours (TB3+)	Total/NA
R-EVE	0.77		0.036		ug/L	50		Chemours (TB3+)	Total/NA
R-PSDA	0.81		0.035		ug/L	50		Chemours (TB3+)	Total/NA
R-PSDCA	0.014		0.0087		ug/L	50		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-EQBLK-ISCO-021321

## Lab Sample ID: 320-70306-5

No Detections.

## Client Sample ID: SEEP-C-FBLK-021321

## Lab Sample ID: 320-70306-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Detection Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-ISCO-021321**

**Lab Sample ID: 320-70306-7**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-EFFLUENT-192-021321**

**Lab Sample ID: 320-70306-1**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>HFPO-DA</b>	<b>0.059</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>Hydro-EVE Acid</b>	<b>0.0033</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>Hydrolyzed PSDA</b>	<b>0.0043</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>NVHOS</b>	<b>0.0023</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
PEPA	<0.0020		0.020		ug/L		02/22/21 11:40	02/24/21 04:09	1
PES	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>PFMOAA</b>	<b>0.30</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>PFO2HxA</b>	<b>0.065</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>PFO3OA</b>	<b>0.031</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>PFO4DA</b>	<b>0.012</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>PMPA</b>	<b>0.059</b>		0.010		ug/L		02/22/21 11:40	02/24/21 04:09	1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>R-EVE</b>	<b>0.0033</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>R-PSDA</b>	<b>0.0046</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:09	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	95		25 - 150				02/22/21 11:40	02/24/21 04:09	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-INFLUENT-192-021321**

**Lab Sample ID: 320-70306-2**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0087		0.0087		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>HFPO-DA</b>	<b>15</b>		0.041		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>Hydro-EVE Acid</b>	<b>1.1</b>		0.0072		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>Hydrolyzed PSDA</b>	<b>1.0</b>		0.019		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>Hydro-PS Acid</b>	<b>0.33</b>		0.0031		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>NVHOS</b>	<b>0.68</b>		0.0073		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PEPA</b>	<b>3.0</b>		0.020		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PES</b>	<b>0.0044</b>		0.0034		ug/L		02/22/21 11:40	02/25/21 18:43	50
PFECA B	<0.013		0.013		ug/L		02/22/21 11:40	02/25/21 18:43	50
PFECA G	<0.024		0.024		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PFMOAA</b>	<b>71</b>		0.040		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PFO2HxA</b>	<b>25</b>		0.013		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PFO3OA</b>	<b>7.1</b>		0.020		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PFO4DA</b>	<b>2.9</b>		0.030		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PFO5DA</b>	<b>0.081</b>		0.039		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>PMPA</b>	<b>7.7</b>		0.31		ug/L		02/22/21 11:40	02/25/21 18:43	50
PS Acid	<0.0098		0.0098		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>R-EVE</b>	<b>0.77</b>		0.036		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>R-PSDA</b>	<b>0.85</b>		0.035		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>R-PSDCA</b>	<b>0.016</b>		0.0087		ug/L		02/22/21 11:40	02/25/21 18:43	50
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	100		25 - 150				02/22/21 11:40	02/25/21 18:43	50

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-021321**

**Lab Sample ID: 320-70306-3**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>HFPO-DA</b>	<b>0.024</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
NVHOS	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
PEPA	<0.020		0.020		ug/L		02/22/21 11:40	02/24/21 04:44	1
PES	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>PFMOAA</b>	<b>0.19</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>PFO2HxA</b>	<b>0.039</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>PFO3OA</b>	<b>0.012</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>PFO4DA</b>	<b>0.0039</b>		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>PMPA</b>	<b>0.031</b>		0.010		ug/L		02/22/21 11:40	02/24/21 04:44	1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
R-EVE	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
R-PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 04:44	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	94		25 - 150				02/22/21 11:40	02/24/21 04:44	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-RAIN-INFLUENT-24-021321**

**Lab Sample ID: 320-70306-4**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0087		0.0087		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>HFPO-DA</b>	<b>13</b>		0.041		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>Hydro-EVE Acid</b>	<b>1.1</b>		0.0072		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>Hydrolyzed PSDA</b>	<b>1.0</b>		0.019		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>Hydro-PS Acid</b>	<b>0.34</b>		0.0031		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>NVHOS</b>	<b>0.67</b>		0.0073		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PEPA</b>	<b>2.8</b>		0.020		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PES</b>	<b>0.0041</b>		0.0034		ug/L		02/22/21 11:40	02/25/21 19:00	50
PFECA B	<0.013		0.013		ug/L		02/22/21 11:40	02/25/21 19:00	50
PFECA G	<0.024		0.024		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PFMOAA</b>	<b>69</b>		0.040		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PFO2HxA</b>	<b>25</b>		0.013		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PFO3OA</b>	<b>6.8</b>		0.020		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PFO4DA</b>	<b>3.0</b>		0.030		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PFO5DA</b>	<b>0.083</b>		0.039		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>PMPA</b>	<b>7.3</b>		0.31		ug/L		02/22/21 11:40	02/25/21 19:00	50
PS Acid	<0.0098		0.0098		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>R-EVE</b>	<b>0.77</b>		0.036		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>R-PSDA</b>	<b>0.81</b>		0.035		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>R-PSDCA</b>	<b>0.014</b>		0.0087		ug/L		02/22/21 11:40	02/25/21 19:00	50
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>13C3 HFPO-DA</i>	111		25 - 150				02/22/21 11:40	02/25/21 19:00	50

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-EQBLK-ISCO-021321**

**Lab Sample ID: 320-70306-5**

Date Collected: 02/13/21 16:05

Matrix: Water

Date Received: 02/19/21 09:50

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
HFPO-DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
NVHOS	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PEPA	<0.020		0.020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PES	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFMOAA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFO2HxA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFO3OA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFO4DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
PMPA	<0.010		0.010		ug/L		02/22/21 11:40	02/24/21 05:19	1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
R-EVE	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
R-PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:19	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		25 - 150				02/22/21 11:40	02/24/21 05:19	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-FBLK-021321**

**Lab Sample ID: 320-70306-6**

**Date Collected: 02/13/21 16:10**

**Matrix: Water**

**Date Received: 02/19/21 09:50**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
HFPO-DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
NVHOS	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PEPA	<0.020		0.020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PES	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFMOAA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFO2HxA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFO3OA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFO4DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
PMPA	<0.010		0.010		ug/L		02/22/21 11:40	02/24/21 05:36	1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
R-EVE	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
R-PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	97		25 - 150				02/22/21 11:40	02/24/21 05:36	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-ISCO-021321**

**Lab Sample ID: 320-70306-7**

**Date Collected: 02/13/21 16:00**

**Matrix: Water**

**Date Received: 02/19/21 09:50**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
HFPO-DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
NVHOS	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PEPA	<0.020		0.020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PES	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFMOAA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFO2HxA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFO3OA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFO4DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
PMPA	<0.010		0.010		ug/L		02/22/21 11:40	02/24/21 05:53	1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
R-EVE	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
R-PSDA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:40	02/24/21 05:53	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	87		25 - 150				02/22/21 11:40	02/24/21 05:53	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.020	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.010	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L



# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	HFPODA (25-150)			
320-70306-1	SEEP-C-EFFLUENT-192-02132	95			
320-70306-2	SEEP-C-INFLUENT-192-02132	100			
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-0 1321	94			
320-70306-4	SEEP-C-RAIN-INFLUENT-24-0 1321	111			
320-70306-5	SEEP-C-EQBLK-ISCO-021321	97			
320-70306-6	SEEP-C-FBLK-021321	97			
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-02 321	87			
LCS 320-464016/2-A	Lab Control Sample	92			
LCSD 320-464016/3-A	Lab Control Sample Dup	95			
MB 320-464016/1-A	Method Blank	100			
<b>Surrogate Legend</b>					
HFPODA = 13C3 HFPO-DA					

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

**Lab Sample ID: MB 320-464016/1-A**

**Matrix: Water**

**Analysis Batch: 464205**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 464016**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared		Analyzed		Dil Fac
	Result	Qualifier									
EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
HFPO-DA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
Hydro-PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
NVHOS	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PEPA	<0.020		0.020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PES	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFECA B	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFECA G	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFMOAA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFO2HxA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFO3OA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFO4DA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PFO5DA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
PMPA	<0.010		0.010		ug/L		02/22/21 11:39	02/24/21 03:51			1
PS Acid	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
R-EVE	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
R-PSDA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
R-PSDCA	<0.0020		0.0020		ug/L		02/22/21 11:39	02/24/21 03:51			1
		<b>MB</b>	<b>MB</b>								
<b>Isotope Dilution</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>		
13C3 HFPO-DA		100		25 - 150			02/22/21 11:39	02/24/21 03:51			1

**Lab Sample ID: LCS 320-464016/2-A**

**Matrix: Water**

**Analysis Batch: 464205**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 464016**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
EVE Acid	0.200	0.208		ug/L		104	70 - 130	
HFPO-DA	0.200	0.221		ug/L		111	70 - 130	
Hydro-EVE Acid	0.200	0.208		ug/L		104	70 - 130	
Hydrolyzed PSDA	0.200	0.244		ug/L		122	50 - 150	
Hydro-PS Acid	0.200	0.199		ug/L		99	70 - 130	
NVHOS	0.200	0.193		ug/L		97	70 - 130	
PEPA	0.200	0.231		ug/L		115	70 - 130	
PES	0.200	0.201		ug/L		101	70 - 130	
PFECA B	0.200	0.211		ug/L		105	70 - 130	
PFECA G	0.200	0.237		ug/L		118	70 - 130	
PFMOAA	0.200	0.171		ug/L		85	70 - 130	
PFO2HxA	0.200	0.205		ug/L		102	70 - 130	
PFO3OA	0.200	0.192		ug/L		96	70 - 130	
PFO4DA	0.200	0.213		ug/L		107	50 - 150	
PFO5DA	0.200	0.165		ug/L		83	50 - 150	
PMPA	0.200	0.199		ug/L		100	70 - 130	
PS Acid	0.200	0.206		ug/L		103	70 - 130	
R-EVE	0.200	0.216		ug/L		108	50 - 150	
R-PSDA	0.200	0.221		ug/L		111	50 - 150	
R-PSDCA	0.200	0.211		ug/L		106	70 - 130	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	92		25 - 150

**Lab Sample ID: LCSD 320-464016/3-A**  
**Matrix: Water**  
**Analysis Batch: 464205**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 464016**

<b>Analyte</b>	<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec.</b>	<b>RPD</b>	<b>RPD</b>	<b>Limit</b>
	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>				<b>Limits</b>	<b>Limits</b>	<b>RPD</b>	<b>Limit</b>
EVE Acid	0.200	0.206		ug/L		103	70 - 130	1	25	
HFPO-DA	0.200	0.211		ug/L		106	70 - 130	5	25	
Hydro-EVE Acid	0.200	0.211		ug/L		106	70 - 130	2	25	
Hydrolyzed PSDA	0.200	0.249		ug/L		125	50 - 150	2	25	
Hydro-PS Acid	0.200	0.202		ug/L		101	70 - 130	2	25	
NVHOS	0.200	0.194		ug/L		97	70 - 130	1	25	
PEPA	0.200	0.230		ug/L		115	70 - 130	1	25	
PES	0.200	0.202		ug/L		101	70 - 130	1	25	
PFECA B	0.200	0.208		ug/L		104	70 - 130	1	25	
PFECA G	0.200	0.229		ug/L		115	70 - 130	3	25	
PFMOAA	0.200	0.175		ug/L		88	70 - 130	3	25	
PFO2HxA	0.200	0.204		ug/L		102	70 - 130	0	25	
PFO3OA	0.200	0.201		ug/L		100	70 - 130	5	25	
PFO4DA	0.200	0.221		ug/L		111	50 - 150	4	25	
PFO5DA	0.200	0.173		ug/L		87	50 - 150	5	25	
PMPA	0.200	0.200		ug/L		100	70 - 130	0	25	
PS Acid	0.200	0.216		ug/L		108	70 - 130	5	25	
R-EVE	0.200	0.215		ug/L		108	50 - 150	1	25	
R-PSDA	0.200	0.222		ug/L		111	50 - 150	0	25	
R-PSDCA	0.200	0.210		ug/L		105	70 - 130	1	25	

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	95		25 - 150

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## LCMS

### Prep Batch: 464016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70306-1	SEEP-C-EFFLUENT-192-021321	Total/NA	Water	PFAS Prep	
320-70306-2	SEEP-C-INFLUENT-192-021321	Total/NA	Water	PFAS Prep	
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Total/NA	Water	PFAS Prep	
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Total/NA	Water	PFAS Prep	
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Total/NA	Water	PFAS Prep	
320-70306-6	SEEP-C-FBLK-021321	Total/NA	Water	PFAS Prep	
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Total/NA	Water	PFAS Prep	
MB 320-464016/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-464016/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-464016/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 464205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70306-1	SEEP-C-EFFLUENT-192-021321	Total/NA	Water	Chemours (TB3+)	464016
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Total/NA	Water	Chemours (TB3+)	464016
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Total/NA	Water	Chemours (TB3+)	464016
320-70306-6	SEEP-C-FBLK-021321	Total/NA	Water	Chemours (TB3+)	464016
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Total/NA	Water	Chemours (TB3+)	464016
MB 320-464016/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	464016
LCS 320-464016/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	464016
LCSD 320-464016/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	464016

### Analysis Batch: 464873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70306-2	SEEP-C-INFLUENT-192-021321	Total/NA	Water	Chemours (TB3+)	464016
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Total/NA	Water	Chemours (TB3+)	464016

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-EFFLUENT-192-021321**

**Lab Sample ID: 320-70306-1**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 04:09	D1R	TAL SAC

**Client Sample ID: SEEP-C-INFLUENT-192-021321**

**Lab Sample ID: 320-70306-2**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		50			464873	02/25/21 18:43	JD1	TAL SAC

**Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-021321**

**Lab Sample ID: 320-70306-3**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 04:44	D1R	TAL SAC

**Client Sample ID: SEEP-C-RAIN-INFLUENT-24-021321**

**Lab Sample ID: 320-70306-4**

Date Collected: 02/13/21 10:00

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		50			464873	02/25/21 19:00	JD1	TAL SAC

**Client Sample ID: SEEP-C-EQBLK-ISCO-021321**

**Lab Sample ID: 320-70306-5**

Date Collected: 02/13/21 16:05

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 05:19	D1R	TAL SAC

**Client Sample ID: SEEP-C-FBLK-021321**

**Lab Sample ID: 320-70306-6**

Date Collected: 02/13/21 16:10

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 05:36	D1R	TAL SAC

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

**Client Sample ID: SEEP-C-RAIN-EQBLK-ISCO-021321**

**Lab Sample ID: 320-70306-7**

Date Collected: 02/13/21 16:00

Matrix: Water

Date Received: 02/19/21 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 05:53	D1R	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-464016/1-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:39	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 03:51	D1R	TAL SAC

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-464016/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 06:11	D1R	TAL SAC

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-464016/3-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	464016	02/22/21 11:40	SAD	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			464205	02/24/21 06:28	D1R	TAL SAC

## Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-21 *
ANAB	ISO/IEC 17025	L2468	01-20-21 *
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	02-01-23
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-21 *
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

- Client = Client derived Standard Operating Procedure
- TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

- TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70306-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70306-1	SEEP-C-EFFLUENT-192-021321	Water	02/13/21 10:00	02/19/21 09:50	
320-70306-2	SEEP-C-INFLUENT-192-021321	Water	02/13/21 10:00	02/19/21 09:50	
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	Water	02/13/21 10:00	02/19/21 09:50	
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	Water	02/13/21 10:00	02/19/21 09:50	
320-70306-5	SEEP-C-EQBLK-ISCO-021321	Water	02/13/21 16:05	02/19/21 09:50	
320-70306-6	SEEP-C-FBLK-021321	Water	02/13/21 16:10	02/19/21 09:50	
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	Water	02/13/21 16:00	02/19/21 09:50	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 463725

Lab Sample ID: IC 320-463725/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 10:46 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.88	Baseline	roycea	02/20/21 13:26
R-EVE	6.56	Incomplete Integration	roycea	02/20/21 11:42
R-PSDA	6.65	Incomplete Integration	roycea	02/20/21 11:42
Hydrolyzed PSDA	6.75	Incomplete Integration	roycea	02/20/21 11:43
PMPA	6.77	Incomplete Integration	roycea	02/20/21 11:43
NVHOS	7.32	Baseline	roycea	02/20/21 15:04
PFO2HxA	7.93	Incomplete Integration	roycea	02/20/21 11:43
HFPO-DA	9.49	Baseline	roycea	02/20/21 15:05

Lab Sample ID: IC 320-463725/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 11:03 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.89	Incomplete Integration	roycea	02/20/21 11:44
R-EVE	6.57	Incomplete Integration	roycea	02/20/21 15:01
R-PSDA	6.67	Baseline	roycea	02/20/21 11:44
PMPA	6.75	Baseline	roycea	02/20/21 11:44
NVHOS	7.32	Baseline	roycea	02/20/21 15:04
HFPO-DA	9.49	Baseline	roycea	02/20/21 15:06

Lab Sample ID: IC 320-463725/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 11:21 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.00	Incomplete Integration	roycea	02/20/21 13:20
R-EVE	6.62	Incomplete Integration	roycea	02/20/21 13:20
R-PSDA	6.70	Baseline	roycea	02/20/21 13:21
NVHOS	7.34	Baseline	roycea	02/20/21 15:05

Chemours (TB3+)

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 463725

Lab Sample ID: IC 320-463725/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 11:38 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.06	Incomplete Integration	roycea	02/20/21 13:21
R-EVE	6.65	Incomplete Integration	roycea	02/20/21 13:21
NVHOS	7.36	Incomplete Integration	roycea	02/20/21 13:21

Lab Sample ID: IC 320-463725/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 11:56 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.83	Incomplete Integration	roycea	02/20/21 13:22
R-EVE	6.54	Incomplete Integration	roycea	02/20/21 13:22
Hydrolyzed PSDA	6.72	Baseline	roycea	02/20/21 13:22
NVHOS	7.30	Incomplete Integration	roycea	02/20/21 13:22

Lab Sample ID: IC 320-463725/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 12:13 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.96	Incomplete Integration	roycea	02/20/21 13:23
R-EVE	6.60	Incomplete Integration	roycea	02/20/21 13:23
NVHOS	7.32	Incomplete Integration	roycea	02/20/21 13:23

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 463725

Lab Sample ID: IC 320-463725/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 12:48 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.86	Incomplete Integration	roycea	02/20/21 13:24
R-EVE	6.54	Incomplete Integration	roycea	02/20/21 13:24
Hydrolyzed PSDA	6.73	Incomplete Integration	roycea	02/20/21 13:24
NVHOS	7.30	Incomplete Integration	roycea	02/20/21 13:24

Lab Sample ID: IC 320-463725/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 13:23 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.83	Incomplete Integration	roycea	02/20/21 14:44
R-EVE	6.54	Incomplete Integration	roycea	02/20/21 14:44
Hydrolyzed PSDA	6.72	Incomplete Integration	roycea	02/20/21 14:44
NVHOS	7.30	Incomplete Integration	roycea	02/20/21 14:44

Lab Sample ID: IC 320-463725/13 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 13:58 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.88	Incomplete Integration	roycea	02/20/21 14:46
R-EVE	6.56	Incomplete Integration	roycea	02/20/21 14:46
Hydrolyzed PSDA	6.75	Incomplete Integration	roycea	02/20/21 14:46

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 463725

Lab Sample ID: IC 320-463725/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 14:15 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.03	Incomplete Integration	roycea	02/20/21 14:46
R-EVE	6.62	Incomplete Integration	roycea	02/20/21 14:46

Lab Sample ID: ICV 320-463725/16 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/20/21 14:50 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_ GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.91	Baseline	roycea	02/20/21 15:11
R-EVE	6.56	Baseline	roycea	02/20/21 15:11
NVHOS	7.30	Baseline	roycea	02/20/21 15:11

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464205

Lab Sample ID: CCV 320-464205/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/24/21 03:16 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_014 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.72	Baseline	vangmy	02/24/21 09:20
R-EVE	6.46	Baseline	vangmy	02/24/21 09:20
R-PSDA	6.56	Baseline	vangmy	02/24/21 09:20
PMPA	6.65	Baseline	vangmy	02/24/21 09:20
Hydrolyzed PSDA	6.67	Baseline	vangmy	02/24/21 09:20
NVHOS	7.26	Baseline	vangmy	02/24/21 09:20

Lab Sample ID: 320-70306-1 Client Sample ID: SEEP-C-EFFLUENT-192-021321

Date Analyzed: 02/24/21 04:09 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_017 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.29	Baseline	ruangyots akuld	02/25/21 07:40
R-EVE	6.22	Baseline	ruangyots akuld	02/25/21 07:40
R-PSDA	6.32	Baseline	ruangyots akuld	02/25/21 07:40
Hydrolyzed PSDA	6.46	Baseline	ruangyots akuld	02/25/21 07:40
PMPA	6.47	Baseline	ruangyots akuld	02/25/21 07:40
NVHOS	7.12	Baseline	ruangyots akuld	02/25/21 07:40
PFO2HxA	7.79	Baseline	ruangyots akuld	02/25/21 07:40
PEPA	8.59	Baseline	ruangyots akuld	02/25/21 07:41

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464205

Lab Sample ID: 320-70306-3 Client Sample ID: SEEP-C-RAIN-EFFLUENT-24-021321

Date Analyzed: 02/24/21 04:44 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_019 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.49	Baseline	ruangyots akuld	02/25/21 07:42
R-EVE	6.34	Baseline	ruangyots akuld	02/25/21 07:42
R-PSDA	6.46	Baseline	ruangyots akuld	02/25/21 07:42
PMPA	6.55	Baseline	ruangyots akuld	02/25/21 07:42
Hydrolyzed PSDA	6.56	Baseline	ruangyots akuld	02/25/21 07:42
NVHOS	7.20	Baseline	ruangyots akuld	02/25/21 07:42

Lab Sample ID: 320-70306-7 Client Sample ID: SEEP-C-RAIN-EQBLK-ISCO-021321

Date Analyzed: 02/24/21 05:53 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_023 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
NVHOS	7.10	Baseline	ruangyots akuld	02/25/21 07:44
PFO2HxA		Invalid Compound ID	ruangyots akuld	02/25/21 07:44
PMPA		Invalid Compound ID	ruangyots akuld	02/25/21 07:44

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464205

Lab Sample ID: LCS 320-464016/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/24/21 06:11 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_024 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.75	Baseline	vangmy	02/24/21 09:23
R-EVE	6.48	Baseline	vangmy	02/24/21 09:23
PMPA	6.67	Baseline	vangmy	02/24/21 09:23
Hydrolyzed PSDA	6.69	Baseline	vangmy	02/24/21 09:23
NVHOS	7.26	Baseline	vangmy	02/24/21 09:23

Lab Sample ID: LCSD 320-464016/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/24/21 06:28 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_025 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.63	Baseline	vangmy	02/24/21 09:23
R-EVE	6.42	Baseline	vangmy	02/24/21 09:23
R-PSDA	6.52	Baseline	vangmy	02/24/21 09:24
PMPA	6.62	Baseline	vangmy	02/24/21 09:24
Hydrolyzed PSDA	6.64	Baseline	vangmy	02/24/21 09:24
NVHOS	7.22	Baseline	vangmy	02/24/21 09:24

Lab Sample ID: CCV 320-464205/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/24/21 07:03 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_027 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.06	Assign Peak	vangmy	02/24/21 09:21
R-EVE	6.64	Assign Peak	vangmy	02/24/21 09:21
PMPA	6.77	Baseline	vangmy	02/24/21 09:21



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464205

Lab Sample ID: CCV 320-464205/27 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/24/21 10:50 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_040 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.74	Baseline	ruangyots akuld	02/25/21 07:50
R-EVE	6.48	Baseline	vangmy	02/24/21 11:34
Hydrolyzed PSDA	6.67	Baseline	vangmy	02/24/21 11:34
NVHOS	7.26	Baseline	vangmy	02/24/21 11:34

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464873

Lab Sample ID: CCV 320-464873/20 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/25/21 17:16 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_021 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.40	Baseline	ruangyots akuld	02/26/21 08:40
R-EVE	6.69	Baseline	ruangyots akuld	02/26/21 08:41
Hydro-PS Acid	9.86	Baseline	dadunj	02/26/21 09:34

Lab Sample ID: 320-70306-2 Client Sample ID: SEEP-C-INFLUENT-192-021321

Date Analyzed: 02/25/21 18:43 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_026 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.65	Baseline	dadunj	02/26/21 10:34
R-EVE	6.43	Baseline	dadunj	02/26/21 10:34
R-PSDA	6.54	Baseline	dadunj	02/26/21 10:34
PMPA	6.62	Baseline	dadunj	02/26/21 10:34
Hydrolyzed PSDA	6.64	Baseline	dadunj	02/26/21 10:34
NVHOS	7.24	Baseline	dadunj	02/26/21 10:34
PFO2HxA	7.84	Baseline	dadunj	02/26/21 10:34
PES	8.86	Baseline	dadunj	02/26/21 10:34
R-PSDCA	9.78	Baseline	dadunj	02/26/21 10:34

Lab Sample ID: 320-70306-4 Client Sample ID: SEEP-C-RAIN-INFLUENT-24-021321

Date Analyzed: 02/25/21 19:00 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_027 GC Column: GeminiC18 3x1 ID: 3 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.43	Baseline	dadunj	02/26/21 10:35
R-PSDA	6.76	Baseline	dadunj	02/26/21 10:35

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Analysis Batch Number: 464873

Lab Sample ID: CCV 320-464873/29 Client Sample ID: \_\_\_\_\_

Date Analyzed: 02/25/21 19:53 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_030 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	2.50	Baseline	dadunj	02/26/21 11:17
R-EVE	6.32	Baseline	dadunj	02/26/21 11:17
R-PSDA	6.42	Baseline	dadunj	02/26/21 11:17
Hydrolyzed PSDA	6.55	Baseline	dadunj	02/26/21 11:17
PMPA	6.56	Baseline	dadunj	02/26/21 11:17
NVHOS	7.17	Baseline	dadunj	02/26/21 11:17
PFO2HxA	7.81	Baseline	dadunj	02/26/21 11:17
PEPA	8.49	Baseline	dadunj	02/26/21 11:17
Hydro-PS Acid	9.87	Baseline	dadunj	02/26/21 11:18

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00022</b>	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLICV_00047</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_ICVSP_00014	200 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
PFO4DA	0.1 ug/L							
PFO5DA	0.1 ug/L							
PMPA	0.1 ug/L							
R-EVE	0.1 ug/L							
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00014	03/23/21	09/24/20	Methanol, Lot 202389	10 mL	LCTB3_ICVIM2_00010	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00010	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00014	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00008	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00014	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_ICVIM_00008	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00056</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFMOAA	0.001 ug/L
		PFO2HxA	0.001 ug/L					
		PFO3OA	0.001 ug/L					
		PFO4DA	0.001 ug/L					
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHPa	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpa 00020	07/09/25		Wellington Laboratories, Lot PFHPa0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCPB1_00001	100 uL	PS Acid	5000 ug/L
					LCPB2_00001	100 uL	Hydro-PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00041</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	2000 uL	HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFMOAA	1 ug/L
							PFO2HxA	1 ug/L
							PFO3OA	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD2_00046</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
		PFO2HxA	0.0025 ug/L					
		PFO30A	0.0025 ug/L					
		PFO4DA	0.0025 ug/L					
		PFO5DA	0.0025 ug/L					
		PMPA	0.0025 ug/L					
		R-EVE	0.0025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00046</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
							PFO2HxA	0.005 ug/L
							PFO3OA	0.005 ug/L
							PFO4DA	0.005 ug/L
							PFO5DA	0.005 ug/L
							PMPA	0.005 ug/L
							R-EVE	0.005 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00045</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00066	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD5_00055</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00066	2500 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
							PFO2HxA	0.025 ug/L
							PFO3OA	0.025 ug/L
							PFO4DA	0.025 ug/L
		PFO5DA	0.025 ug/L					
		PMPA	0.025 ug/L					
		R-EVE	0.025 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00066	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD6_00087</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	100 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
							PFO2HxA	0.05 ug/L
							PFO3OA	0.05 ug/L
							PFO4DA	0.05 ug/L
							PFO5DA	0.05 ug/L
							PMPA	0.05 ug/L
							R-EVE	0.05 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration		
					Reagent ID	Volume Added				
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL		
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL		
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL		
...LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL		
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L		
							Perfluoroheptanoic acid	5 ug/L		
							PS Acid	5 ug/L		
							Hydro-PS Acid	5 ug/L		
							R-PSDA	5 ug/L		
							Hydrolyzed PSDA	5 ug/L		
							R-PSDCA	5 ug/L		
							EVE Acid	5 ug/L		
							Hydro-EVE Acid	5 ug/L		
							NVHOS	5 ug/L		
							PEPA	5 ug/L		
							PES	5 ug/L		
							PFECA B	5 ug/L		
							PFECA G	5 ug/L		
							PFMOAA	5 ug/L		
							PFO2HxA	5 ug/L		
							PFO30A	5 ug/L		
							PFO4DA	5 ug/L		
							PFO5DA	5 ug/L		
PMPA	5 ug/L									
R-EVE	5 ug/L									
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L		
						LCTB3_IM_00020	200 uL	Perfluoroheptanoic acid	50 ug/L	
							2 mL	PS Acid	50 ug/L	
								Hydro-PS Acid	50 ug/L	
								R-PSDA	50 ug/L	
								Hydrolyzed PSDA	50 ug/L	
								R-PSDCA	50 ug/L	
								EVE Acid	50 ug/L	
								Hydro-EVE Acid	50 ug/L	
								NVHOS	50 ug/L	
								PEPA	50 ug/L	
								PES	50 ug/L	
								PFECA B	50 ug/L	
PFECA G	50 ug/L									
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)		HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCPFHpA 00020	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD7_00426	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
					LCM4PFHPA 00035	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C4 PFHpA	0.5 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpa 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPFCA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00429</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
		PFO4DA	0.1 ug/L					
		PFO5DA	0.1 ug/L					
		PMPA	0.1 ug/L					
		R-EVE	0.1 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
<b>.LCTB3_SP_00065</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
PFO2HxA	5 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO30A	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO30A_00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	PS Acid
....LCBP2_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	Hydro-PS Acid
....LCBP4_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	R-PSDA

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00430</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022 LCTB3_SP_00065	500 uL 200 uL	13C3 HFPO-DA HFPO-DA PS Acid Hydro-PS Acid R-PSDA Hydrolyzed PSDA R-PSDCA EVE Acid Hydro-EVE Acid NVHOS PEPA PES PFECA B PFECA G PFMOAA PFO2HxA PFO3OA PFO4DA PFO5DA PMPA R-EVE	0.25 ug/L 0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA PS Acid Hydro-PS Acid R-PSDA Hydrolyzed PSDA R-PSDCA EVE Acid	5 ug/L 5 ug/L 5 ug/L 5 ug/L 5 ug/L 5 ug/L 5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPF02HxA_00002	100 uL	PFO2HxA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO30A_00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA_B_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA_B	1000 ug/mL
....LCPFECA_G_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA_G	1000 ug/mL
....LCPFMOAA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA_00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE_00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00431</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA_B	0.1 ug/L
							PFECA_G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO30A	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00434</b>	03/23/21	02/17/21	MeOH/H2O, Lot 202389	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00065	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	0.1 ug/L
							PFO30A	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO30A	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEP 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEP 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
LCTB3_LLSTD8_00044	03/23/21	02/17/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	500 uL	HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L
							PFO2HxA	0.25 ug/L
							PFO3OA	0.25 ug/L
							PFO4DA	0.25 ug/L
							PFO5DA	0.25 ug/L
							PMPA	0.25 ug/L
							R-EVE	0.25 ug/L
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00042</b>	03/23/21	02/17/21	MeOH/H2O, Lot 204513	10 mL	LCMTB3_SU_00022	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00065	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFM0AA	0.5 ug/L
		PFO2HxA	0.5 ug/L					
		PFO30A	0.5 ug/L					
		PFO4DA	0.5 ug/L					
		PFO5DA	0.5 ug/L					
		PMPA	0.5 ug/L					
		R-EVE	0.5 ug/L					
.LCMTB3_SU_00022	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA 00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00065	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA_00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFPECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA_G_00001	100 uL	PFECA G	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFM0AA 00002	100 uL	PFM0AA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO30A 00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_SP_00063</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							DFSA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							MMF	5 ug/L
							MTP	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFM0AA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							PPF Acid	5 ug/L
							R-EVE	5 ug/L
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							DFSA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							MMF	50 ug/L
							MTP	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							PPF Acid	50 ug/L
							R-EVE	50 ug/L
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720				(Purchased Reagent) HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFPECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPF02HxA_00002	100 uL	PFO2HxA	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFO30A 00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
...LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
...LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
...LCPFFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
...LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
...LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPPFA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL



Reagent

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**LCHEPO-DA\_00014**



2106190  
 ID: LCHFPO-DA\_00014  
 Exp: 07/09/23 Prpd: YH  
 HFPO-DA

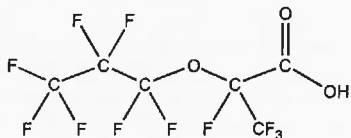


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>5</sub>F<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

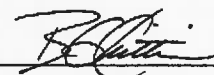
**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
 Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**  **Date:** 07/16/2020  
 B.G. Chittim, General Manager (mm/dd/yyyy)

**Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA**  
**519-822-2436 • Fax: 519-822-2849 • info@well-labs.com**

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

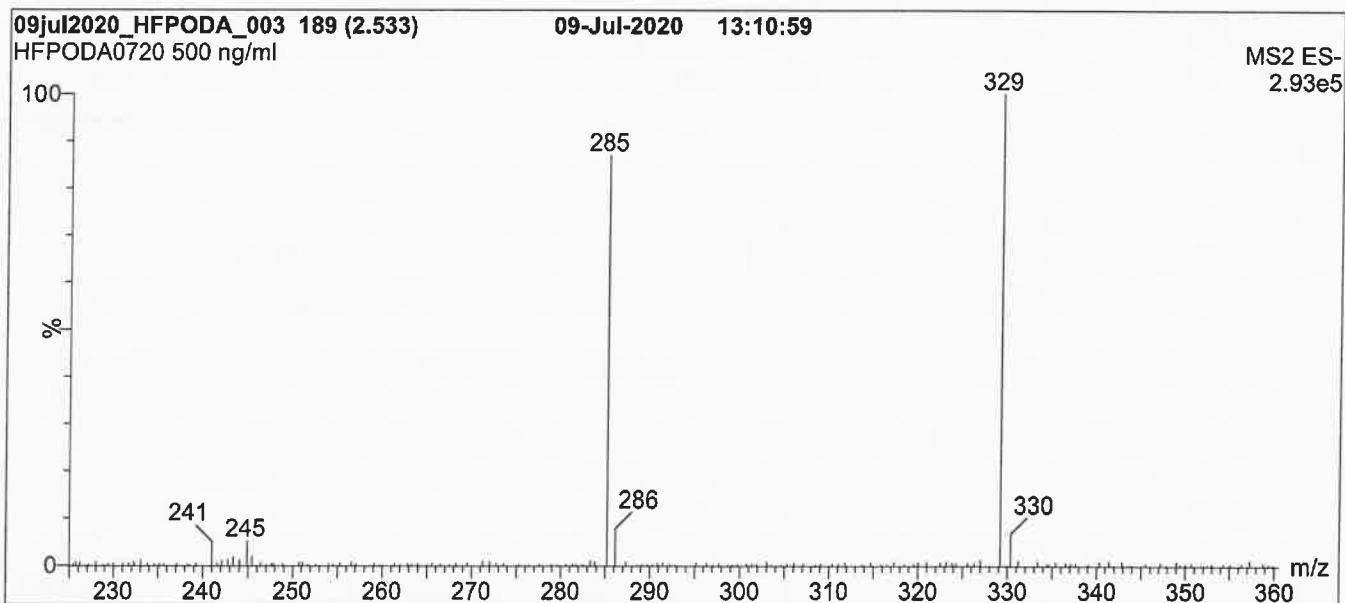
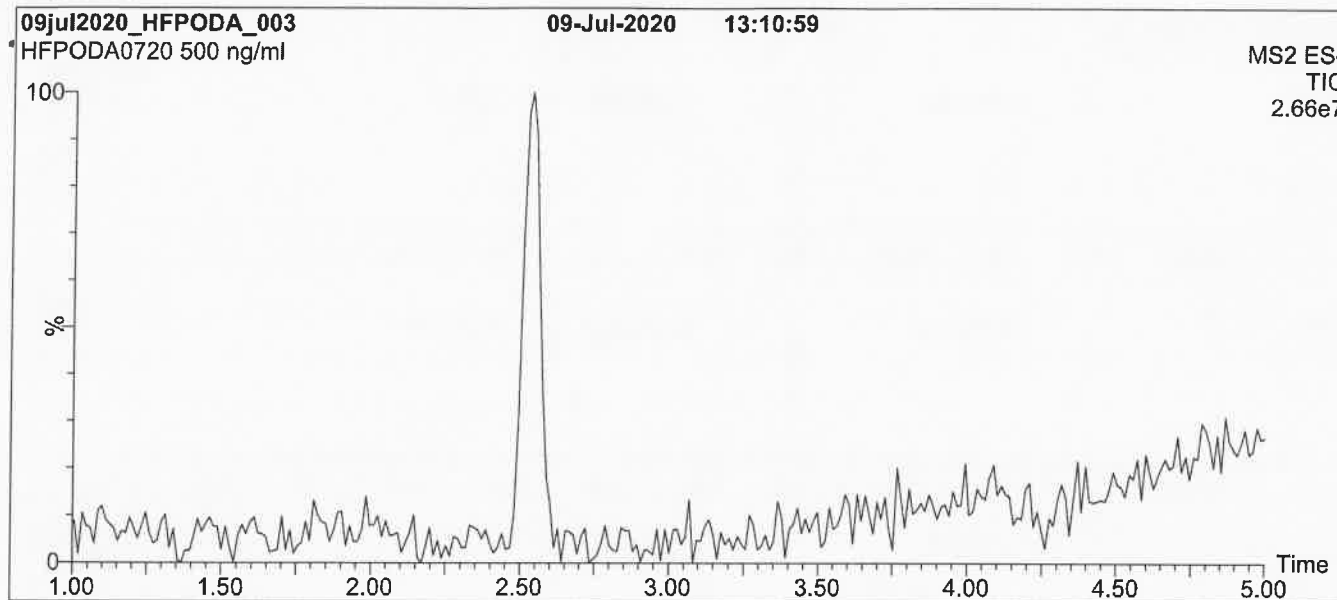
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

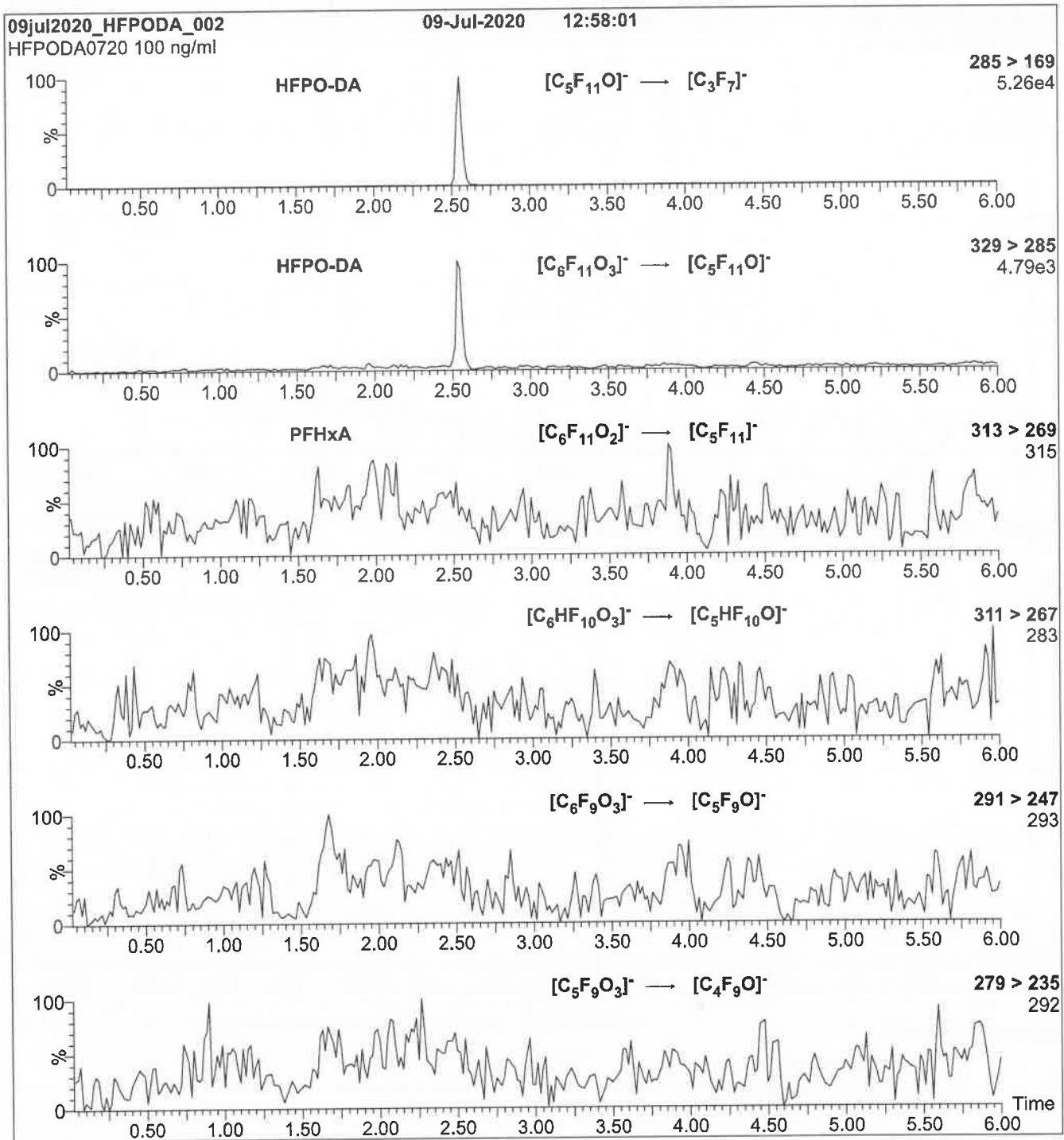
**Flow:** 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

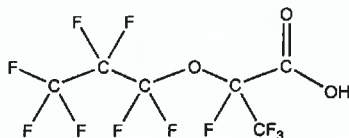
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**LCHFPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>11</sub>F<sub>10</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

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### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

### **QUALITY MANAGEMENT:**

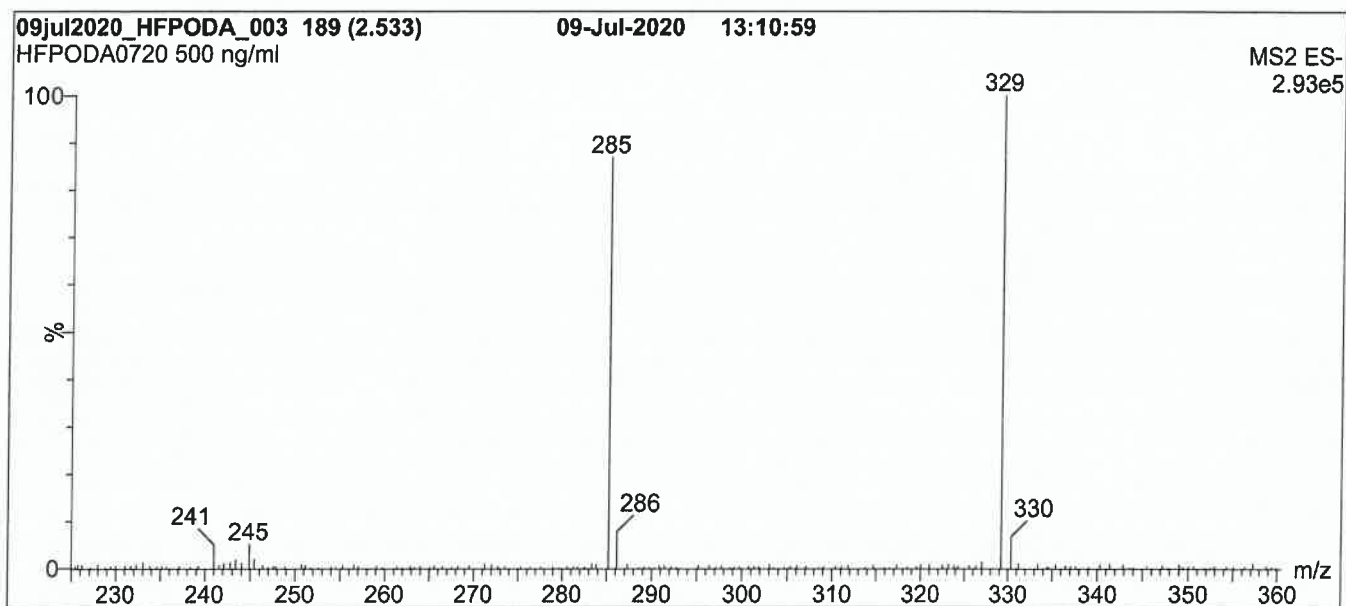
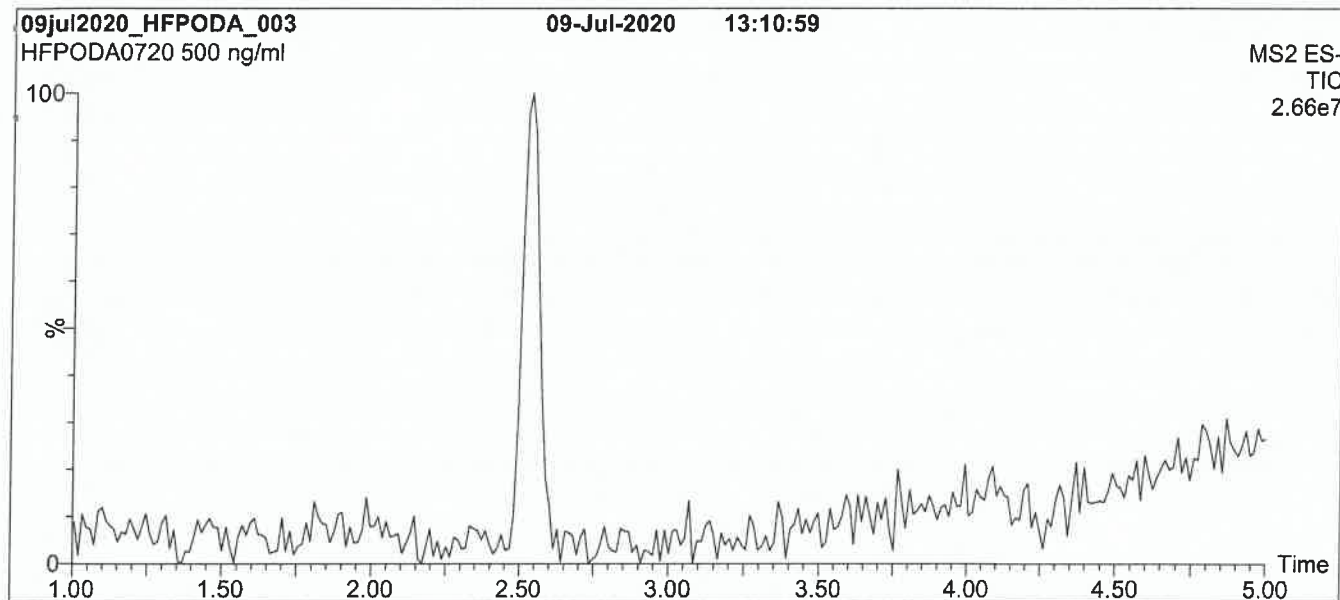
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*



**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

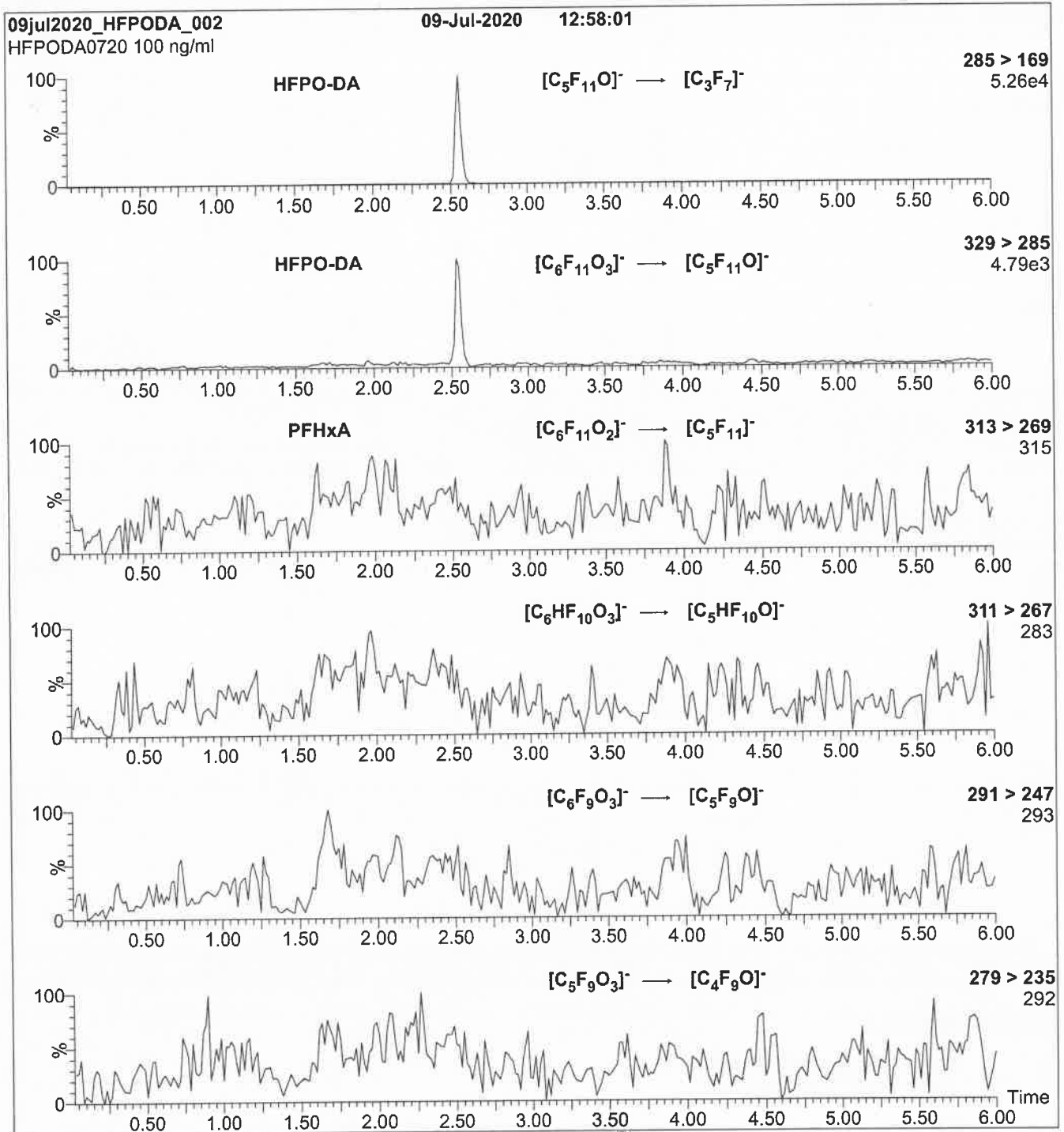
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

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**LCM3HFPO-DA\_00027**

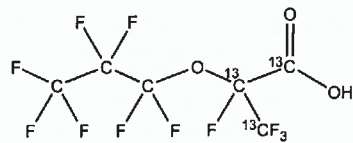


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA1020  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>3</sub><sup>12</sup>C<sub>3</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 333.03  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% **ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
**LAST TESTED:** (mm/dd/yyyy) 10/21/2020 (<sup>13</sup>C<sub>3</sub>)  
**EXPIRY DATE:** (mm/dd/yyyy) 10/21/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

### DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

### ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/23/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

### **INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

### **HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

### **SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

### **HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

### **UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

### **TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

### **EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

### **LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

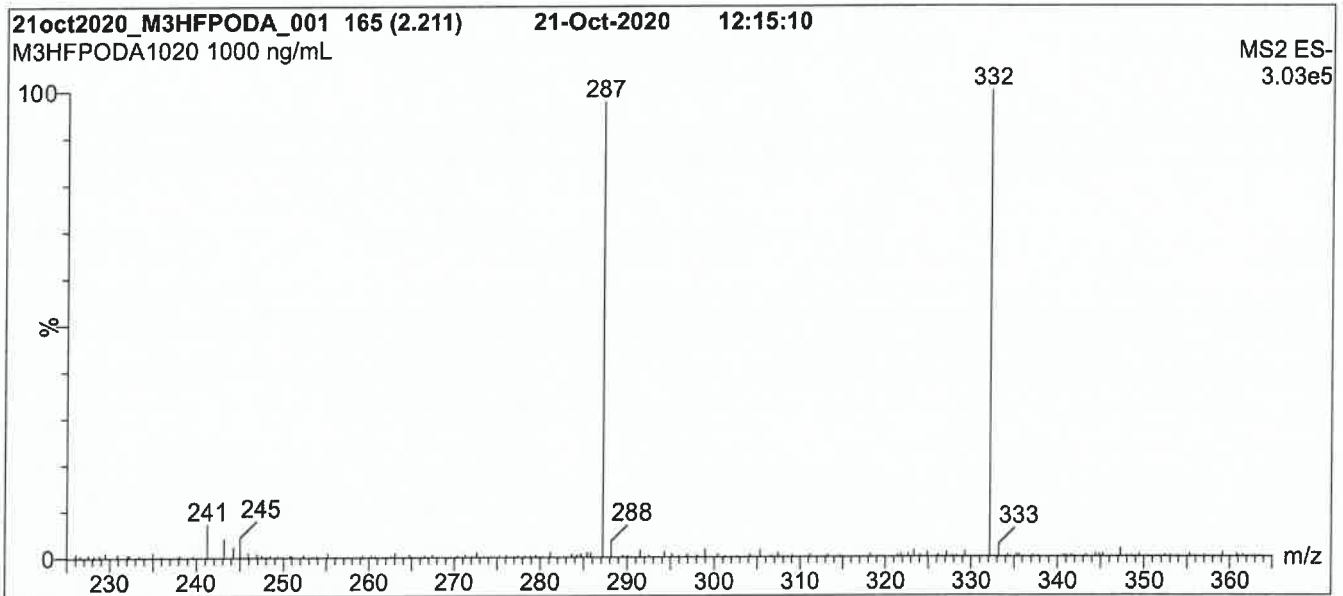
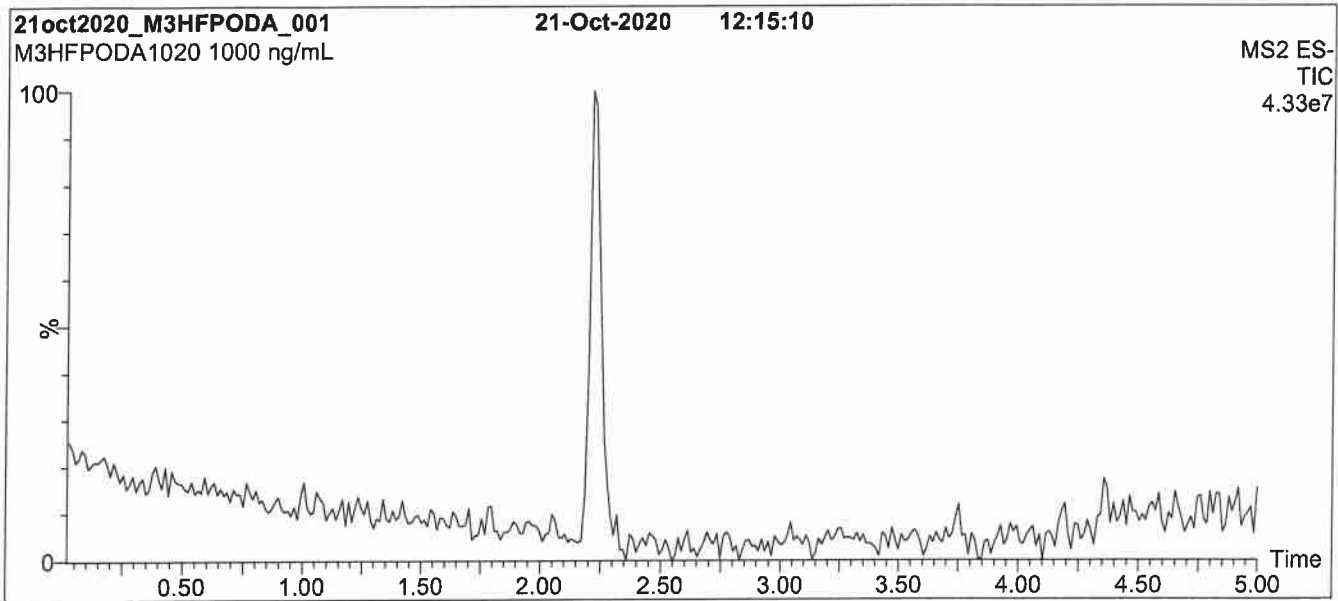
### **QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7 μm, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% H<sub>2</sub>O / 50% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

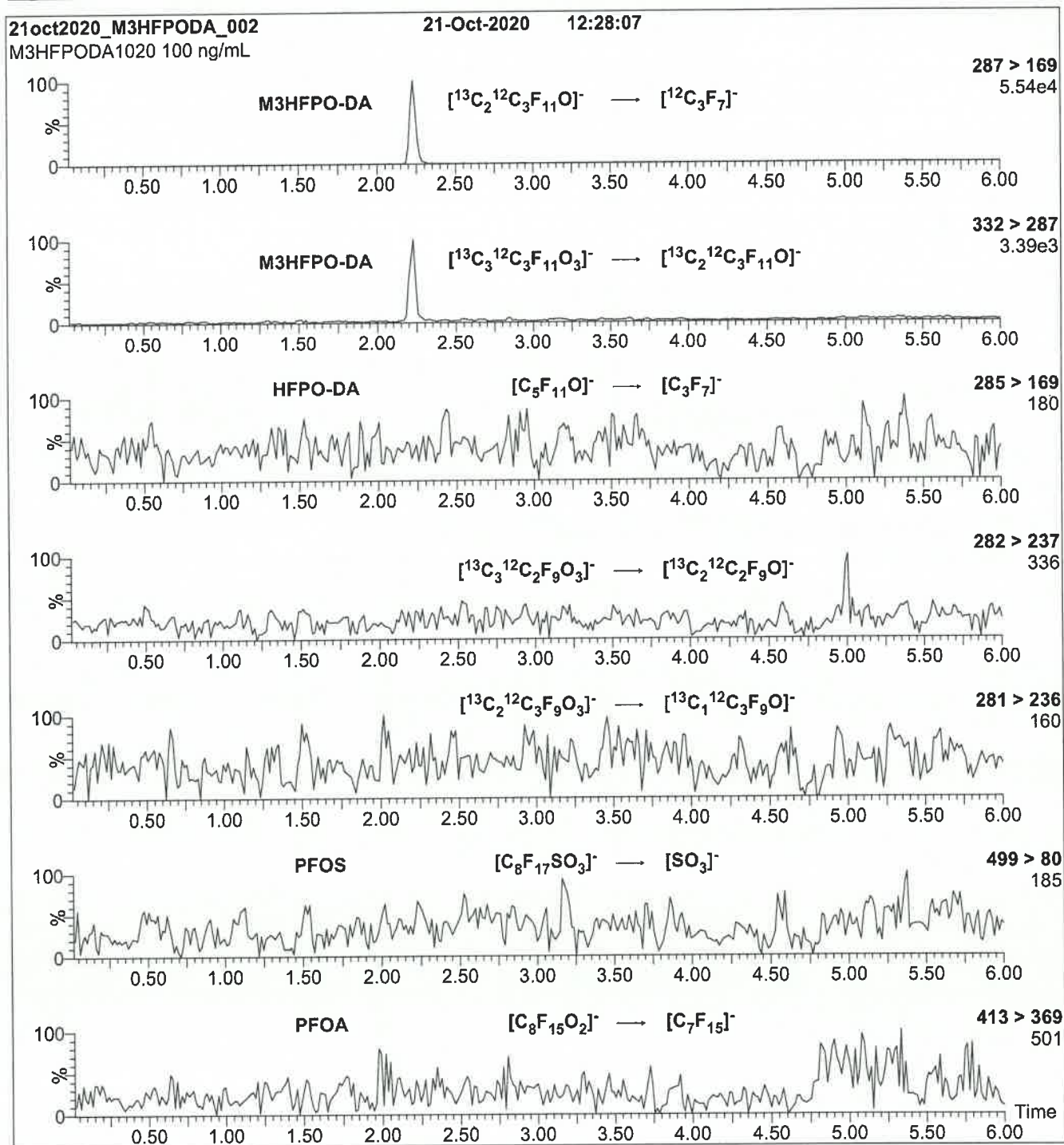
**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.50  
Cone Voltage (V) = 15.00  
Desolvation Temperature (°C) = 300  
Desolvation Gas Flow (L/hr) = 1000

Flow: 300 μL/min

**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.41e-3

Collision Energy (eV) = 8

Reagent

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**LCM4PFHPA\_00035**



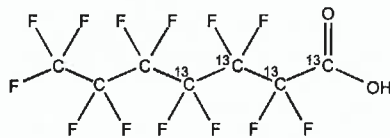


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0920

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)

**CHEMICAL PURITY:** >98%

**ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**LAST TESTED:** (mm/dd/yyyy) 09/29/2020

**EXPIRY DATE:** (mm/dd/yyyy) 09/29/2025

**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)

Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

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**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/22/2020  
(mm/dd/yyyy)

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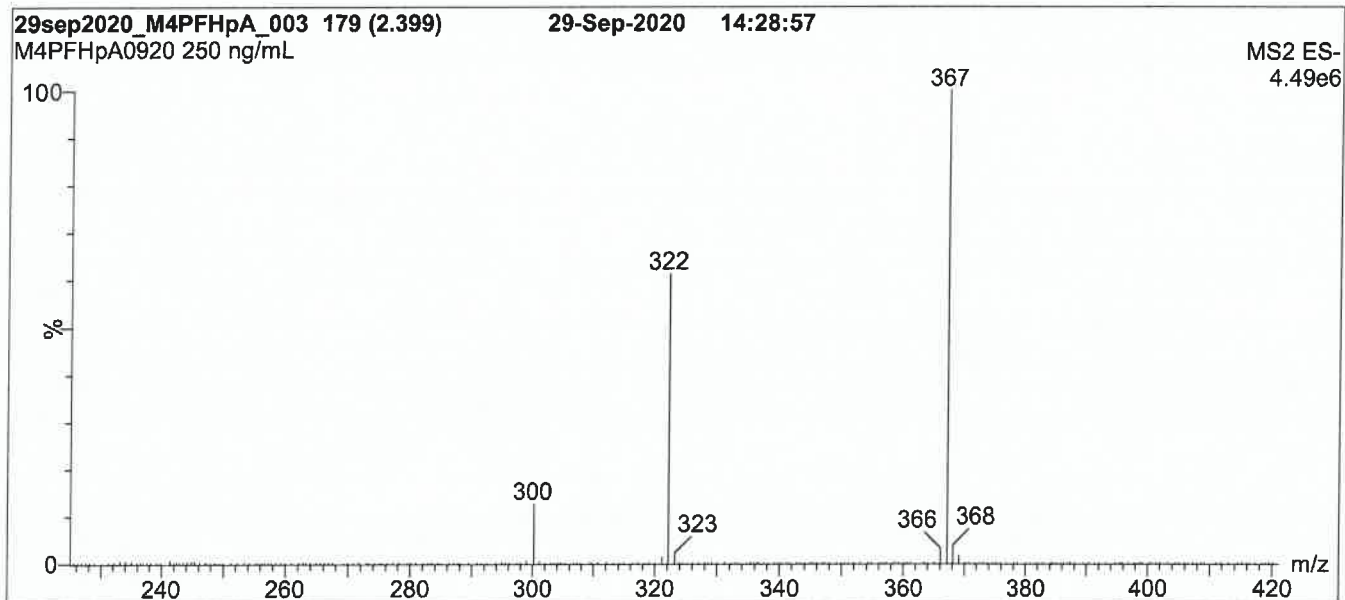
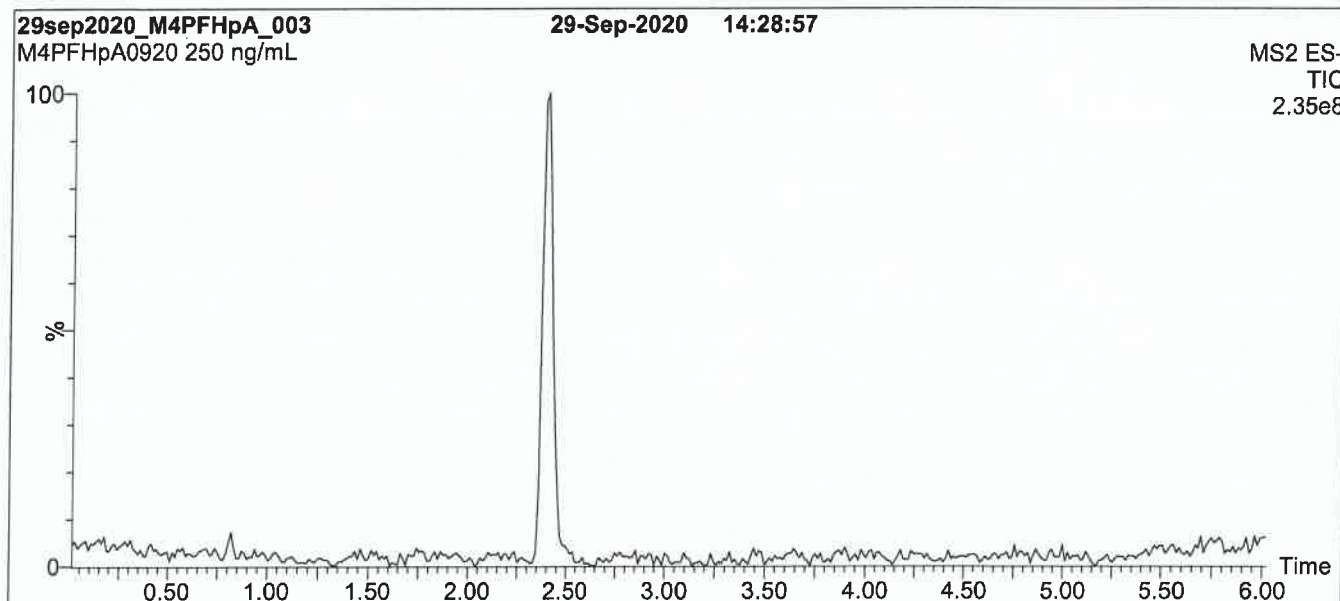
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**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 45% H<sub>2</sub>O / 55% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

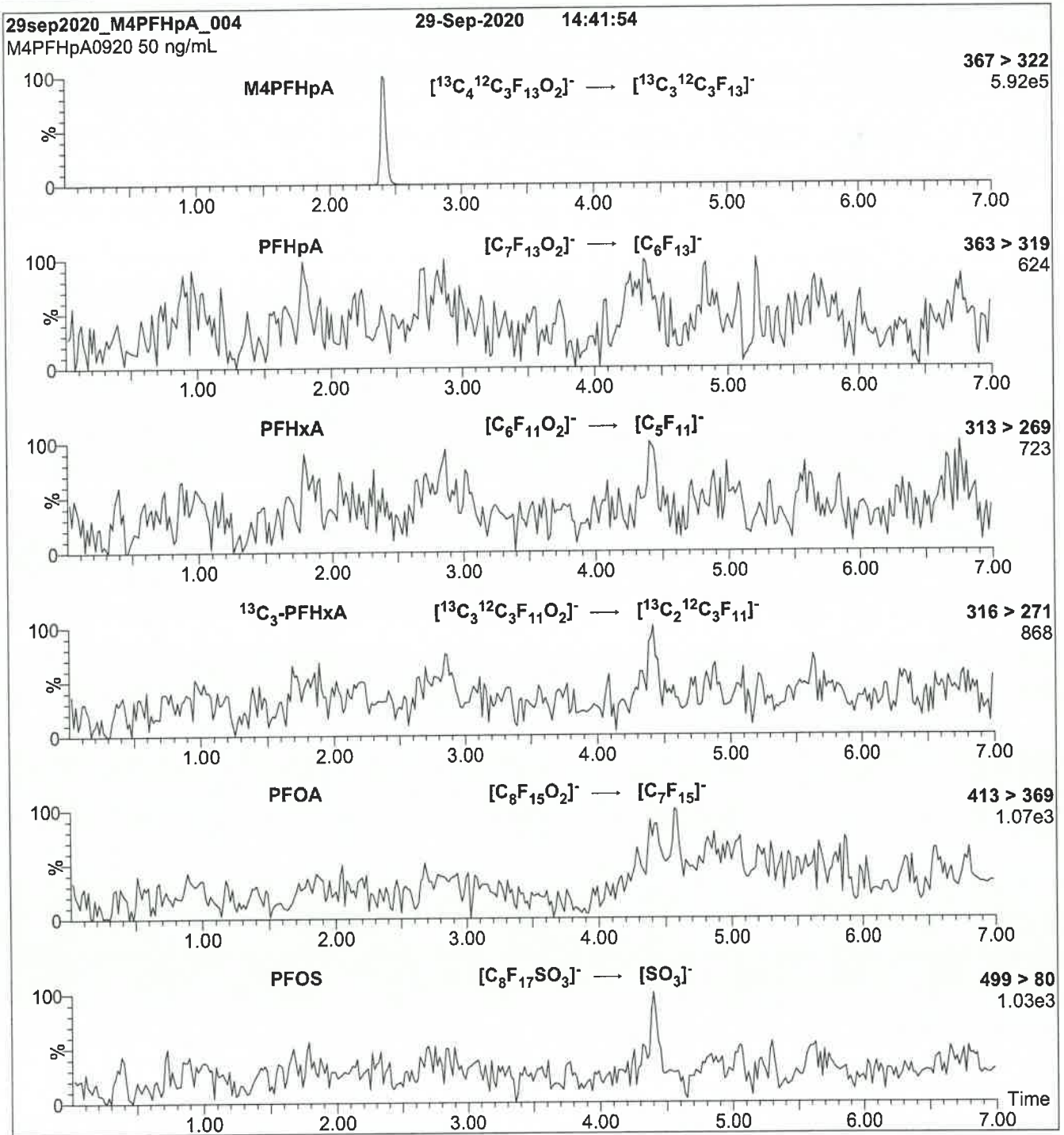
Flow: 300  $\mu$ L/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (L/hr) = 1000

**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.27e-3

Collision Energy (eV) = 8

Reagent

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**LCPFHpA\_00020**



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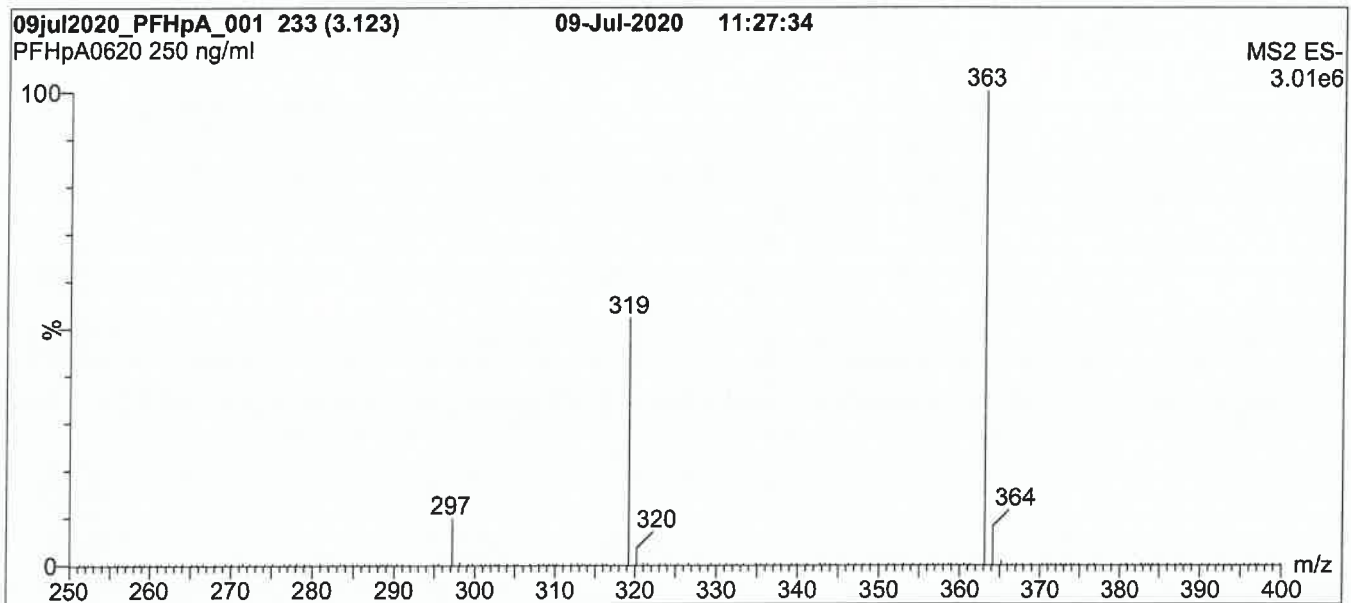
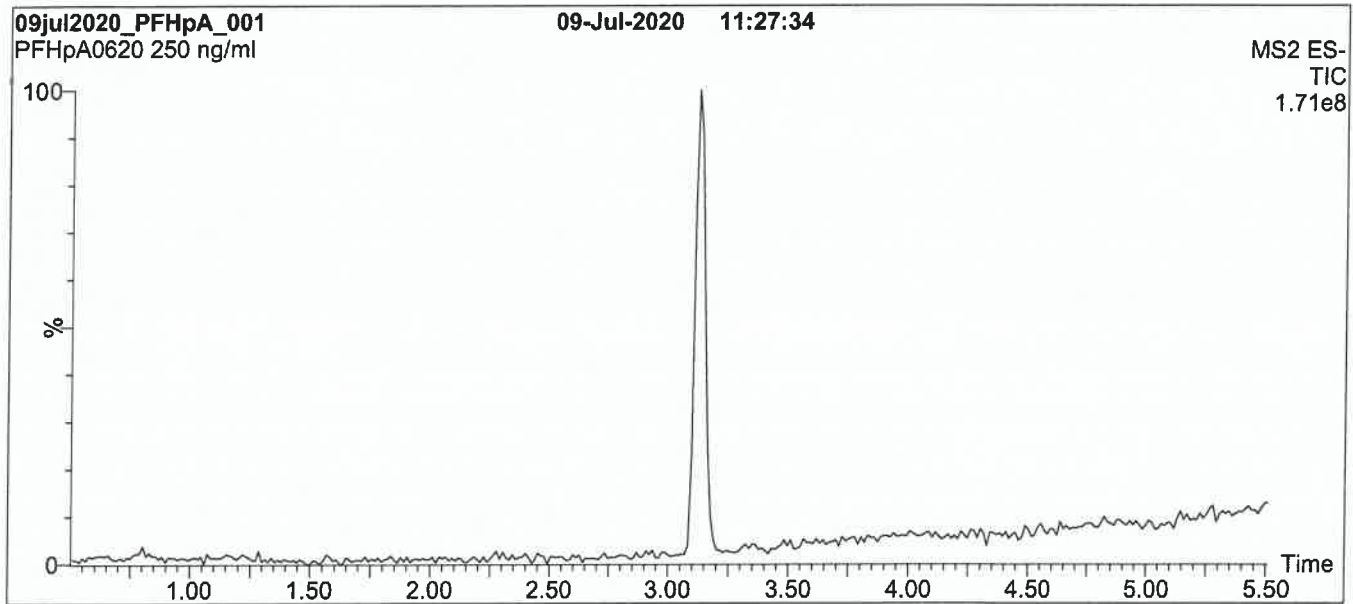
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**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7 μm, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

**Flow:** 300 μl/min

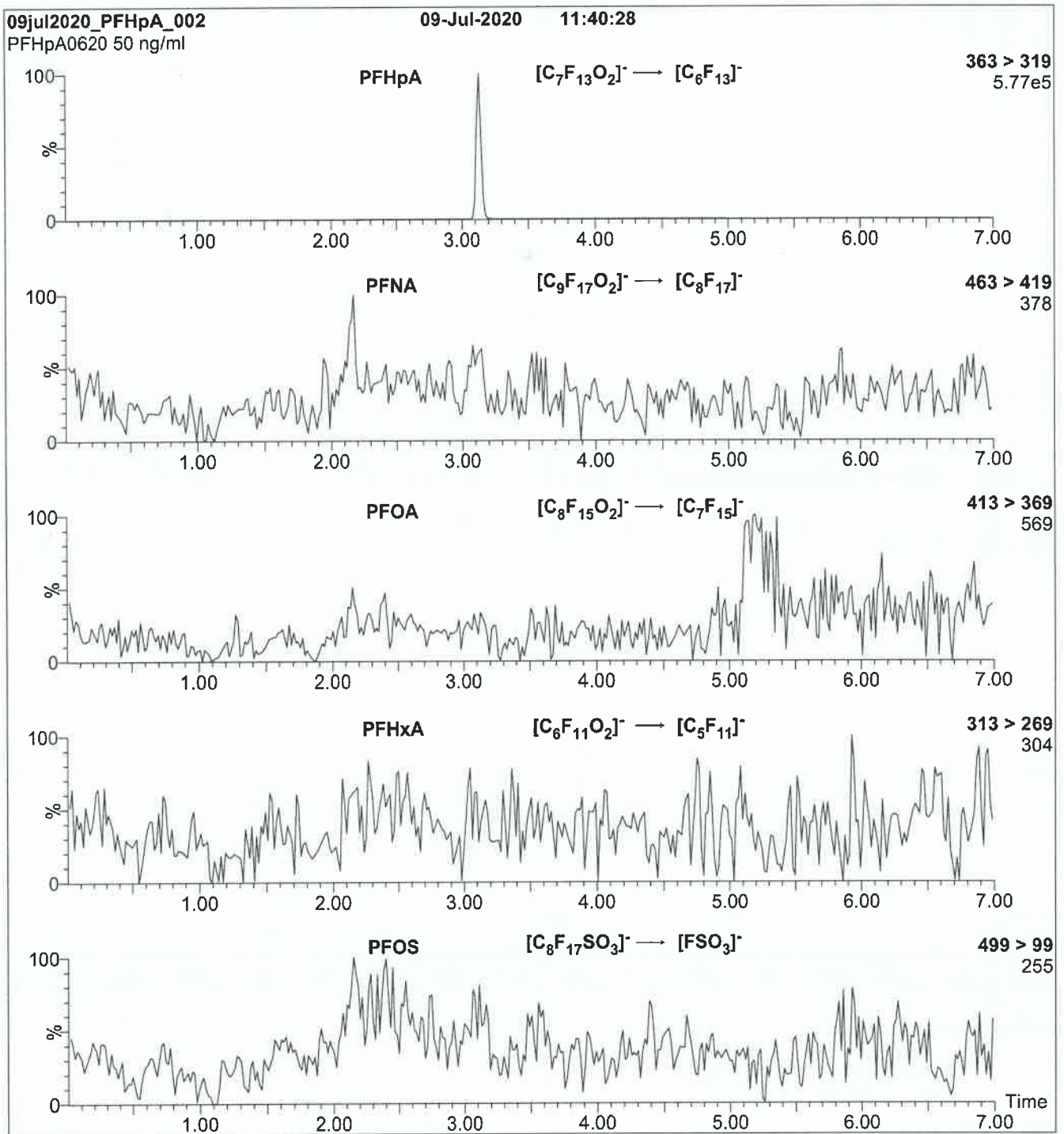
**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature (°C) = 500  
 Desolvation Gas Flow (l/hr) = 1000



**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

# PFAS\_CHEM\_TB3P

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Fluoroproducts Analytical Method -  
Table 3+

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-EFFLUENT-19 2-021321	320-70306-1	95
SEEP-C-INFLUENT-19 2-021321	320-70306-2	100
SEEP-C-RAIN-EFFLUE NT-24-021321	320-70306-3	94
SEEP-C-RAIN-INFLUE NT-24-021321	320-70306-4	111
SEEP-C-EQBLK-ISCO- 021321	320-70306-5	97
SEEP-C-FBLK-021321	320-70306-6	97
SEEP-C-RAIN-EQBLK- ISCO-021321	320-70306-7	87
	MB 320-464016/1-A	100
	LCS 320-464016/2-A	92
	LCSD 320-464016/3-A	95

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: 2021.02.23\_A10\_TB3+\_B\_024.d  
 Lab ID: LCS 320-464016/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.460	92	25-150	
EVE Acid	0.200	0.208	104	70-130	
HFPO-DA	0.200	0.221	111	70-130	
Hydro-EVE Acid	0.200	0.208	104	70-130	
Hydrolyzed PSDA	0.200	0.244	122	50-150	
Hydro-PS Acid	0.200	0.199	99	70-130	
NVHOS	0.200	0.193	97	70-130	
PEPA	0.200	0.231	115	70-130	
PES	0.200	0.201	101	70-130	
PFECA B	0.200	0.211	105	70-130	
PFECA G	0.200	0.237	118	70-130	
PFMOAA	0.200	0.171	85	70-130	
PFO2HxA	0.200	0.205	102	70-130	
PFO3OA	0.200	0.192	96	70-130	
PFO4DA	0.200	0.213	107	50-150	
PFO5DA	0.200	0.165	83	50-150	
PMPA	0.200	0.199	100	70-130	
PS Acid	0.200	0.206	103	70-130	
R-EVE	0.200	0.216	108	50-150	
R-PSDA	0.200	0.221	111	50-150	
R-PSDCA	0.200	0.211	106	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.02.23\_A10\_TB3+\_B\_025.d

Lab ID: LCSD 320-464016/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.475	95			25-150	
EVE Acid	0.200	0.206	103	1	25	70-130	
HFPO-DA	0.200	0.211	106	5	25	70-130	
Hydro-EVE Acid	0.200	0.211	106	2	25	70-130	
Hydrolyzed PSDA	0.200	0.249	125	2	25	50-150	
Hydro-PS Acid	0.200	0.202	101	2	25	70-130	
NVHOS	0.200	0.194	97	1	25	70-130	
PEPA	0.200	0.230	115	1	25	70-130	
PES	0.200	0.202	101	1	25	70-130	
PFECA B	0.200	0.208	104	1	25	70-130	
PFECA G	0.200	0.229	115	3	25	70-130	
PFMOAA	0.200	0.175	88	3	25	70-130	
PFO2HxA	0.200	0.204	102	0	25	70-130	
PFO3OA	0.200	0.201	100	5	25	70-130	
PFO4DA	0.200	0.221	111	4	25	50-150	
PFO5DA	0.200	0.173	87	5	25	50-150	
PMPA	0.200	0.200	100	0	25	70-130	
PS Acid	0.200	0.216	108	5	25	70-130	
R-EVE	0.200	0.215	108	1	25	50-150	
R-PSDA	0.200	0.222	111	0	25	50-150	
R-PSDCA	0.200	0.210	105	1	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_016.d      Lab Sample ID: MB 320-464016/1-A  
 Matrix: Water      Date Extracted: 02/22/2021 11:39  
 Instrument ID: A10      Date Analyzed: 02/24/2021 03:51  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-EFFLUENT-192-021321	320-70306-1	2021.02.23_A10_TB3+_B_017.d	02/24/2021 04:09
SEEP-C-RAIN-EFFLUENT-24-021321	320-70306-3	2021.02.23_A10_TB3+_B_019.d	02/24/2021 04:44
SEEP-C-EQBLK-ISCO-021321	320-70306-5	2021.02.23_A10_TB3+_B_021.d	02/24/2021 05:19
SEEP-C-FBLK-021321	320-70306-6	2021.02.23_A10_TB3+_B_022.d	02/24/2021 05:36
SEEP-C-RAIN-EQBLK-ISCO-021321	320-70306-7	2021.02.23_A10_TB3+_B_023.d	02/24/2021 05:53
	LCS 320-464016/2-A	2021.02.23_A10_TB3+_B_024.d	02/24/2021 06:11
	LCSD 320-464016/3-A	2021.02.23_A10_TB3+_B_025.d	02/24/2021 06:28
SEEP-C-INFLUENT-192-021321	320-70306-2	2021.02.25_A10_TB3+_C_026.d	02/25/2021 18:43
SEEP-C-RAIN-INFLUENT-24-021321	320-70306-4	2021.02.25_A10_TB3+_C_027.d	02/25/2021 19:00



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
 Lims ID: 320-70306-A-1-A  
 Client ID: SEEP-C-EFFLUENT-192-021321  
 Sample Type: Client  
 Inject. Date: 24-Feb-2021 04:09:13 ALS Bottle#: 17 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70306-a-1-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:41:18 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:41:18  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.285	2.716	-0.431		1493285	0.1491		227		M
2 R-EVE										M
405.00 > 217.00	6.220	6.458	-0.238		6740	0.001638		66.0		M
3 R-PSDA										M
440.90 > 241.00	6.318	6.560	-0.242		6248	0.002300		62.0		M
23 PMPA										M
229.00 > 185.00	6.471	6.653	-0.182		393492	0.0294		59.4		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.458	6.669	-0.211		17138	0.002158		171		M
5 NVHOS										M
297.00 > 135.00	7.118	7.260	-0.142		8874	0.001158		71.0		M
6 PFO2HxA										M
245.00 > 85.00	7.787	7.863	-0.076		305617	0.0325		2073		M
22 PEPA										M
278.90 > 234.90	8.594	8.521	0.073		27909	0.004991		28.9		M
9 PFO3OA										M
310.90 > 85.00	9.321	9.321	0.0		93934	0.0157		1312		M
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.432	9.432	0.0		1314965	0.2377		95.1	50349	M
11 HPFO-DA										M
285.00 > 169.00	9.432	9.432	0.0	1.000	168044	0.0293		6444		M
13 Hydro-EVE Acid										M
427.00 > 282.90	9.867	9.849	0.018		129998	0.001646		2072		M
15 Hydro-PS Acid										M
463.00 > 262.90	9.867	9.868	-0.001		7916	0.000312		226		M
18 PFO4DA										M
376.90 > 85.00	10.099	10.100	-0.001		20310	0.005876		192		M



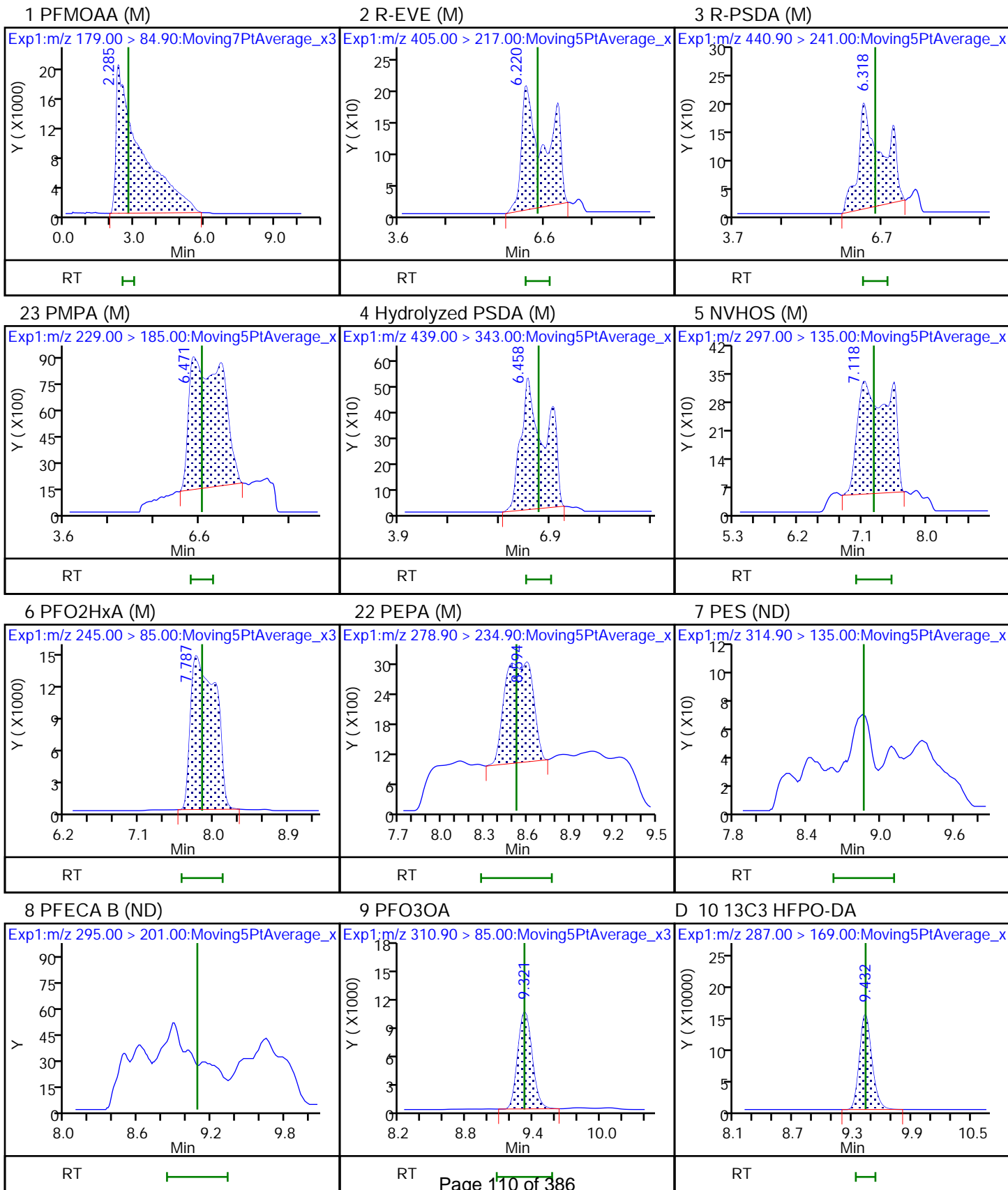
[QC Flag Legend](#)

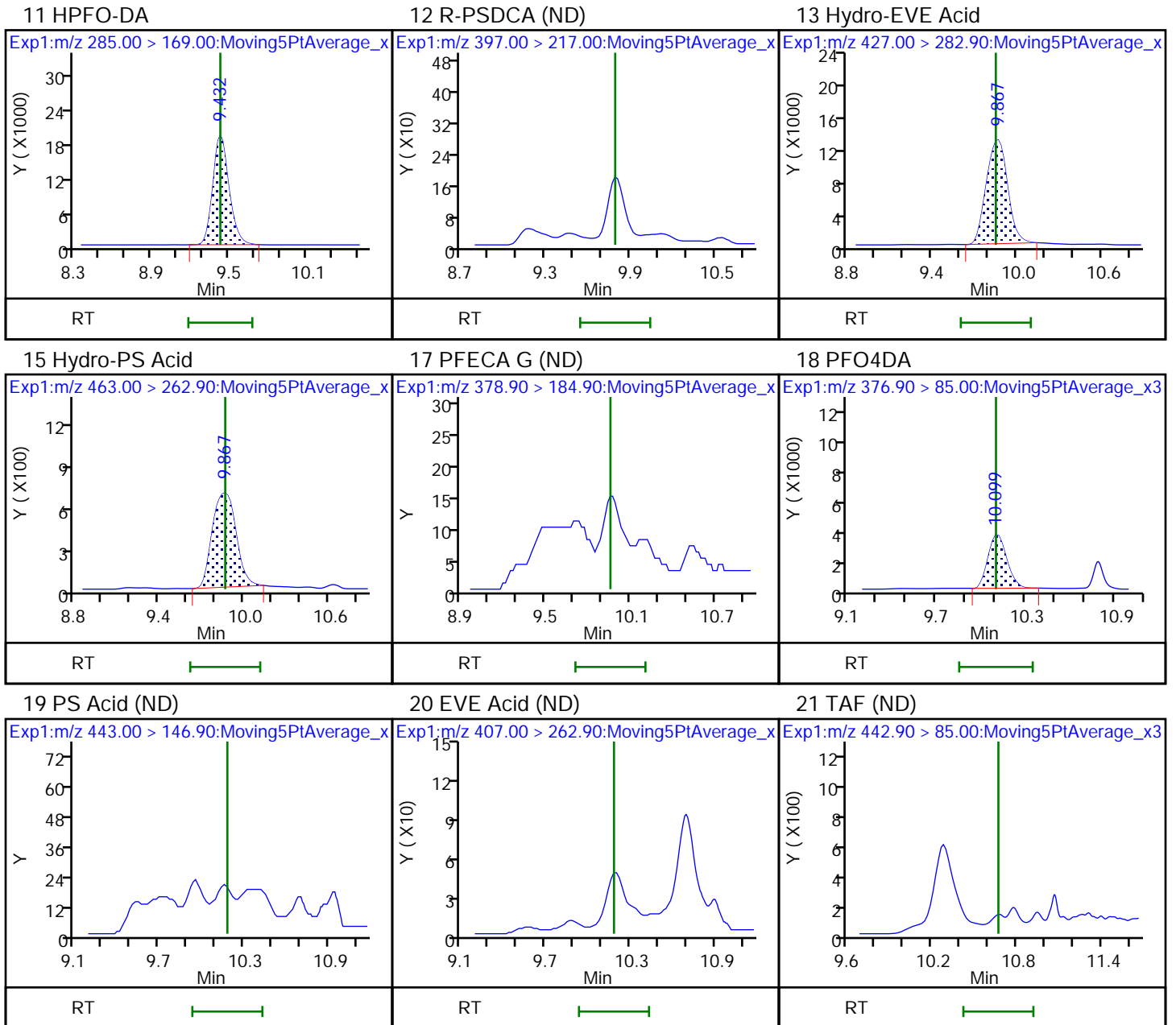
Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

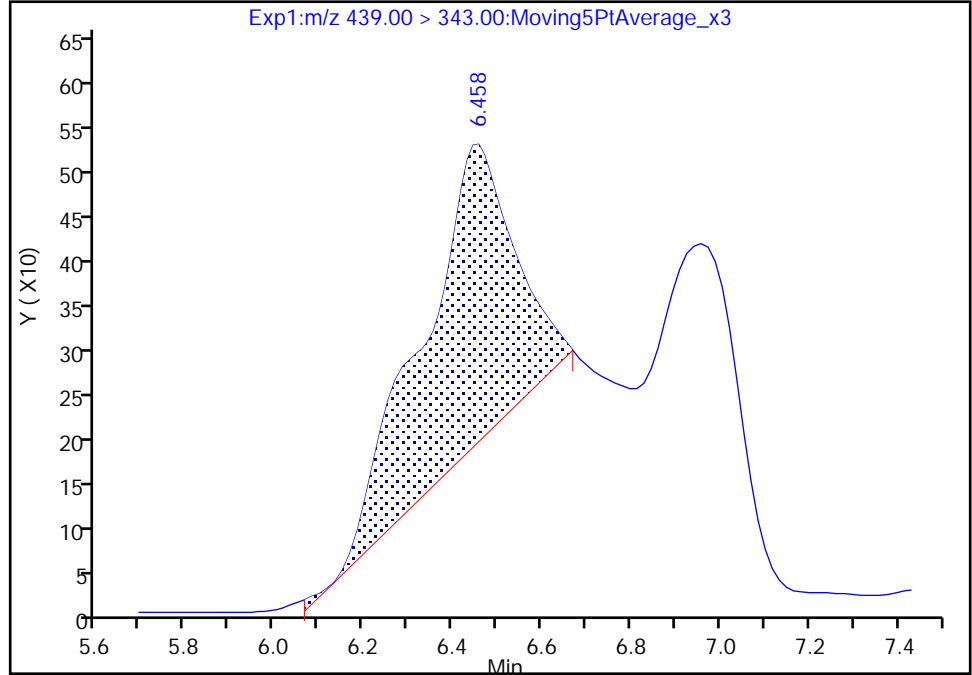
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Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

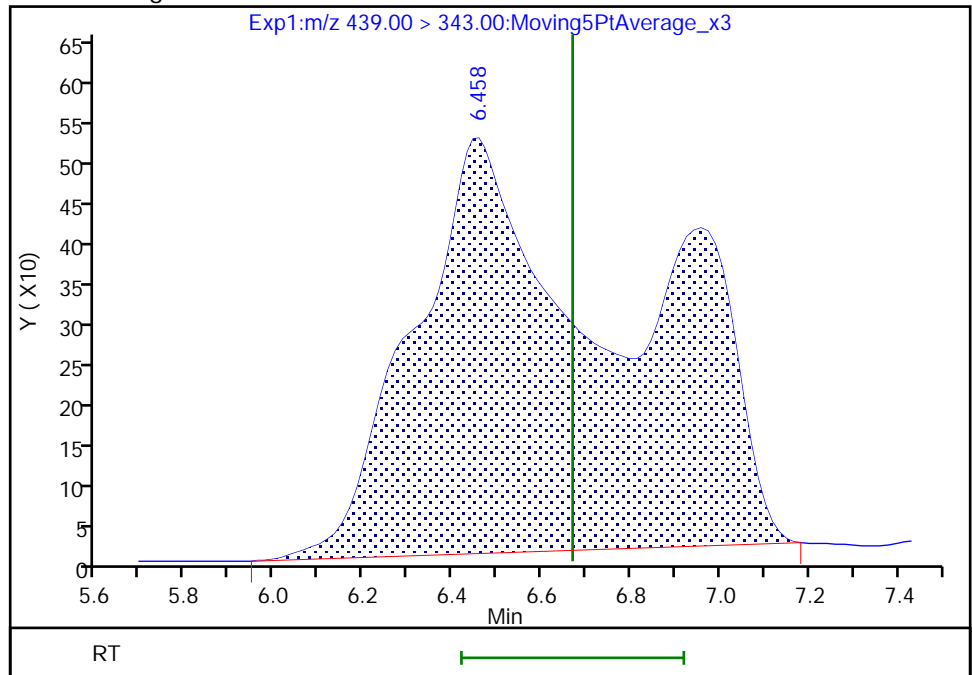
RT: 6.46  
Area: 4908  
Amount: 0.000618  
Amount Units: ng/ml

Processing Integration Results



RT: 6.46  
Area: 17138  
Amount: 0.002158  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:40:49

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

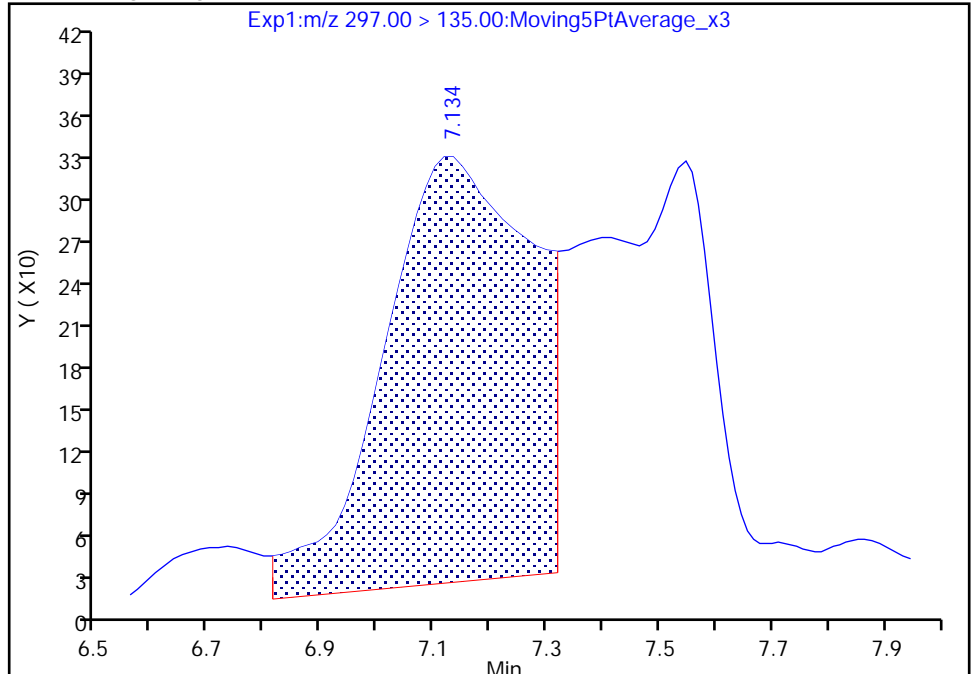
Data File:	\\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23_A10_TB3+_B_017.d		
Injection Date:	24-Feb-2021 04:09:13	Instrument ID:	A10
Lims ID:	320-70306-A-1-A	Lab Sample ID:	320-70306-1
Client ID:	SEEP-C-EFFLUENT-192-021321		
Operator ID:	Sac_inst_A10	ALS Bottle#:	17
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	A10_PFAS_CHEM_TB3+	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm)	Detector:	EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

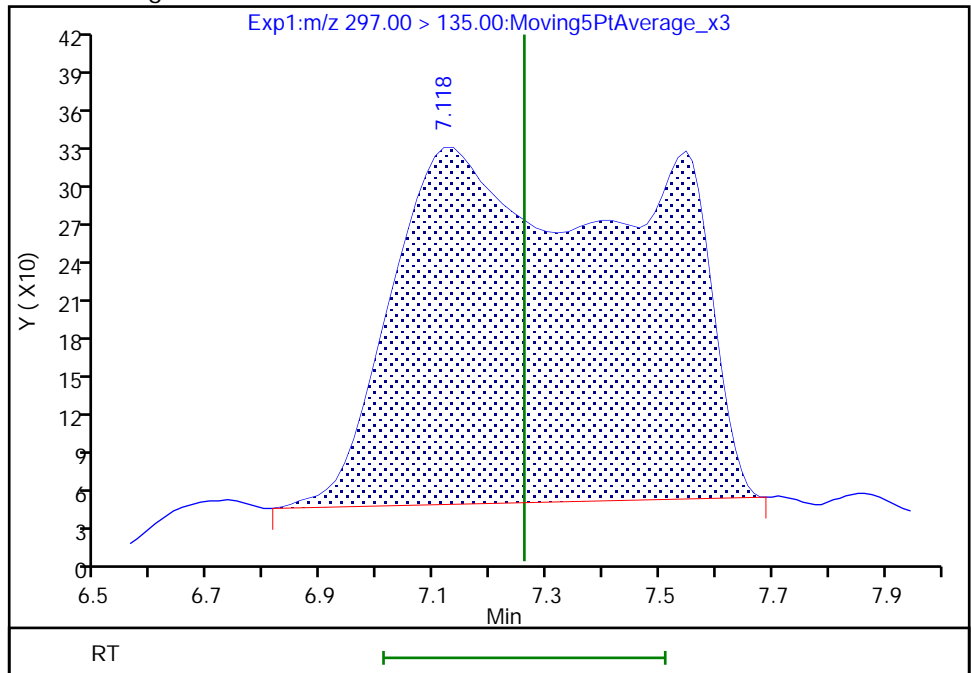
RT: 7.13  
 Area: 5571  
 Amount: 0.000727  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.12  
 Area: 8874  
 Amount: 0.001158  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

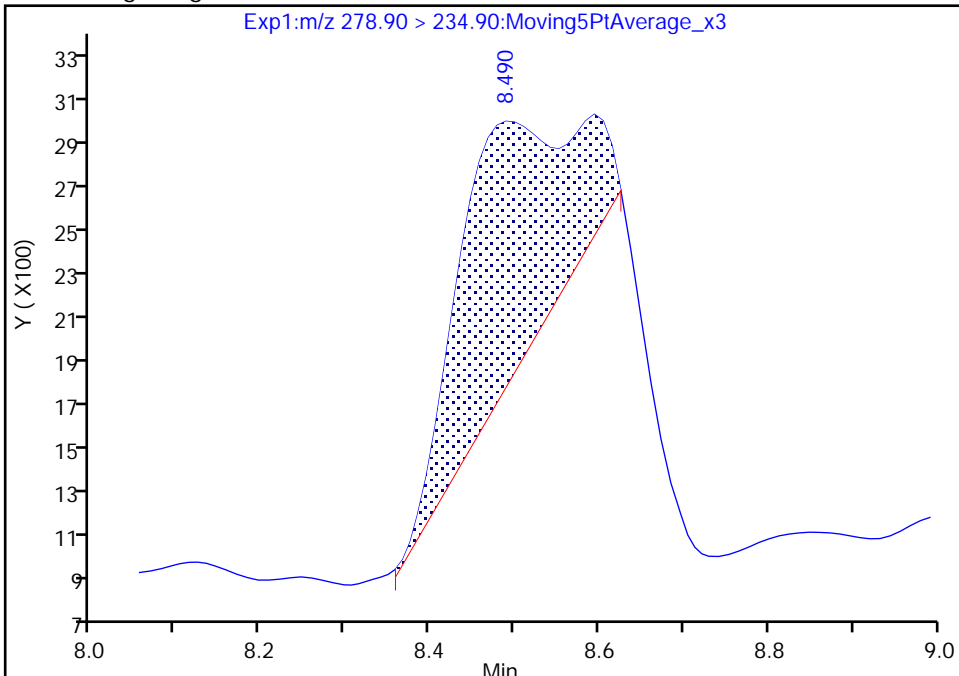
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Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

22 PEPA, CAS: 267239-61-2

Signal: 1

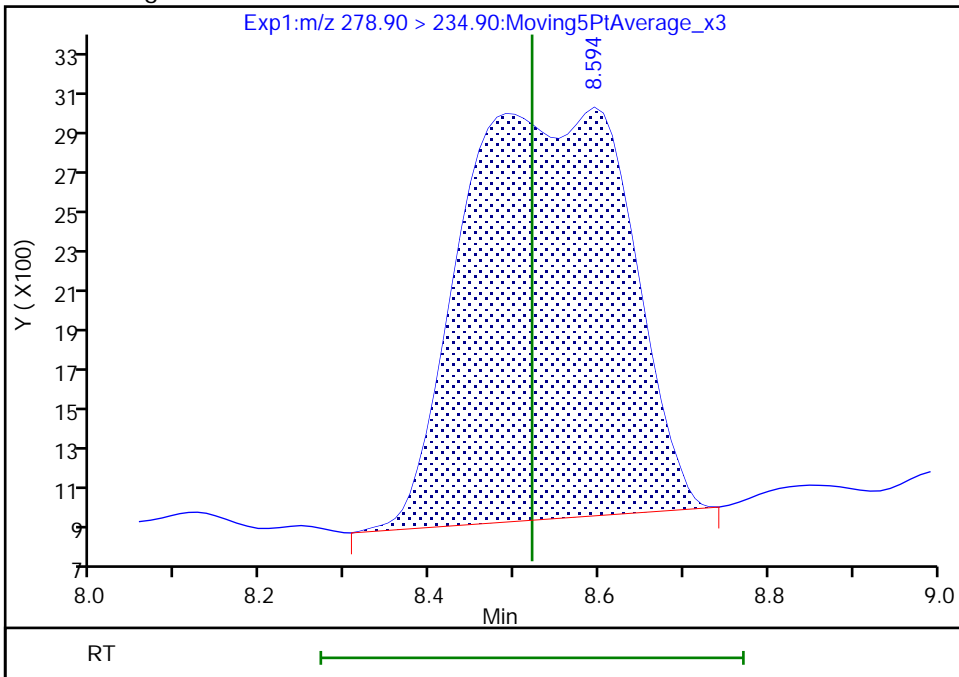
RT: 8.49  
Area: 10777  
Amount: 0.001927  
Amount Units: ng/ml

Processing Integration Results



RT: 8.59  
Area: 27909  
Amount: 0.004991  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

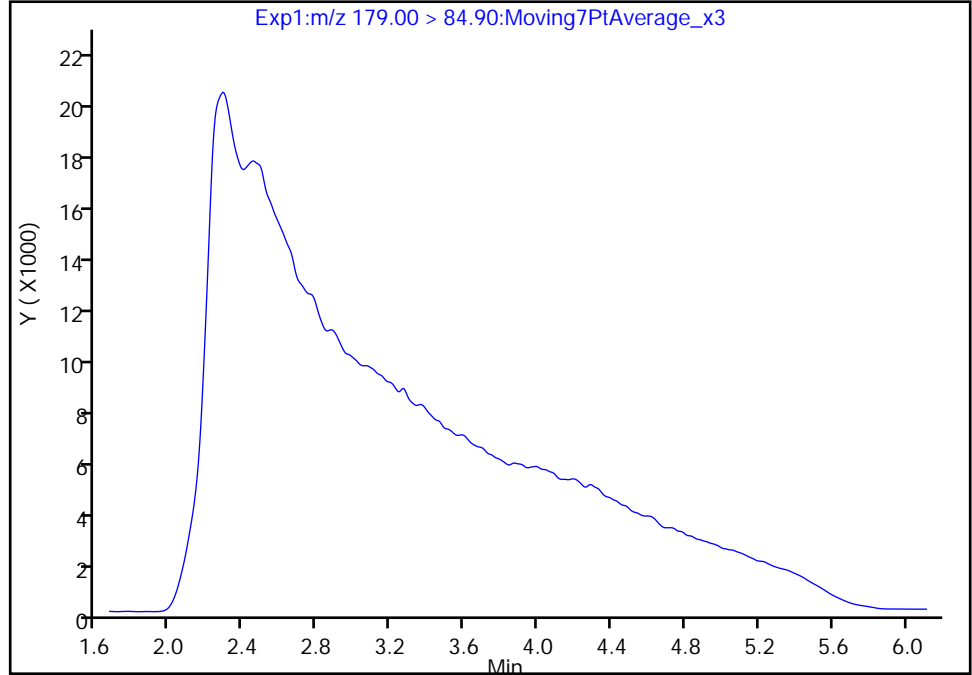
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

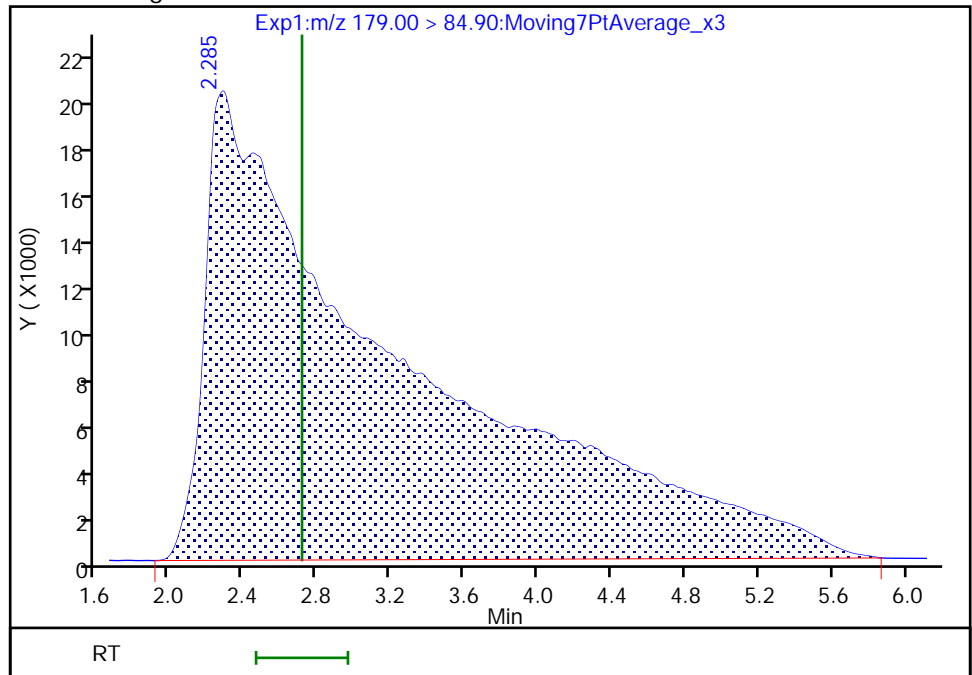
Not Detected  
Expected RT: 2.72

Processing Integration Results



Manual Integration Results

RT: 2.29  
Area: 1493285  
Amount: 0.149147  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 25-Feb-2021 07:40:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

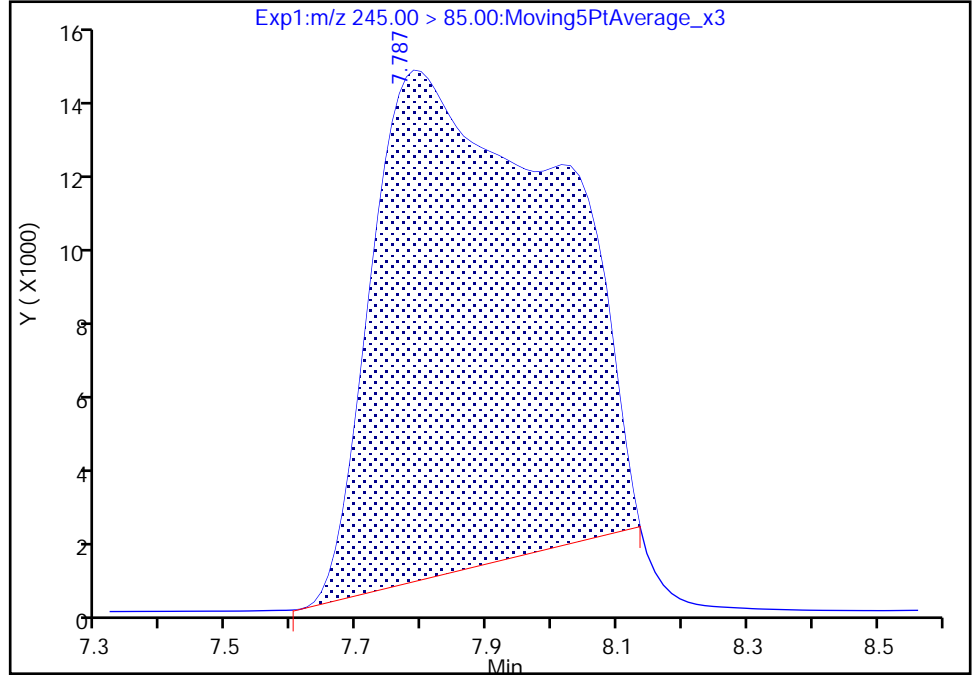
Data File:	\\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23_A10_TB3+_B_017.d		
Injection Date:	24-Feb-2021 04:09:13	Instrument ID:	A10
Lims ID:	320-70306-A-1-A	Lab Sample ID:	320-70306-1
Client ID:	SEEP-C-EFFLUENT-192-021321		
Operator ID:	Sac_inst_A10	ALS Bottle#:	17
Injection Vol:	500.0 ul	Dil. Factor:	1.0000
Method:	A10_PFAS_CHEM_TB3+	Limit Group:	LC PFAS_TB3P - ICAL
Column:	Gemini C18 3um 3 x 100mm (3.00 mm ID)	Detector:	EXP1

6 PFO2HxA, CAS: 39492-88-1

Signal: 1

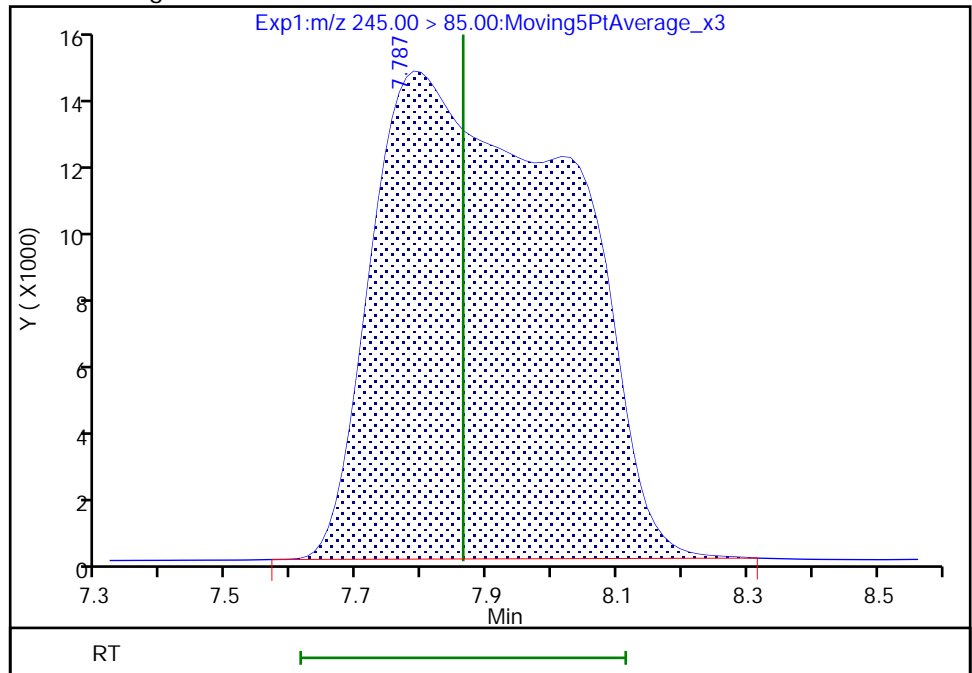
RT: 7.79  
 Area: 266335  
 Amount: 0.028360  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.79  
 Area: 305617  
 Amount: 0.032543  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:40:57

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

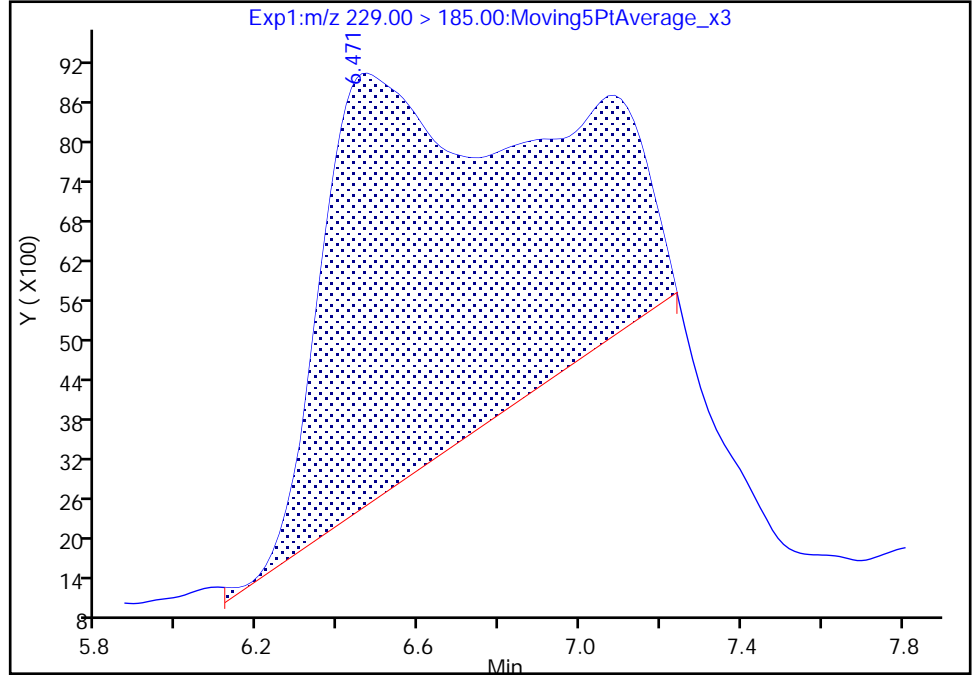
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

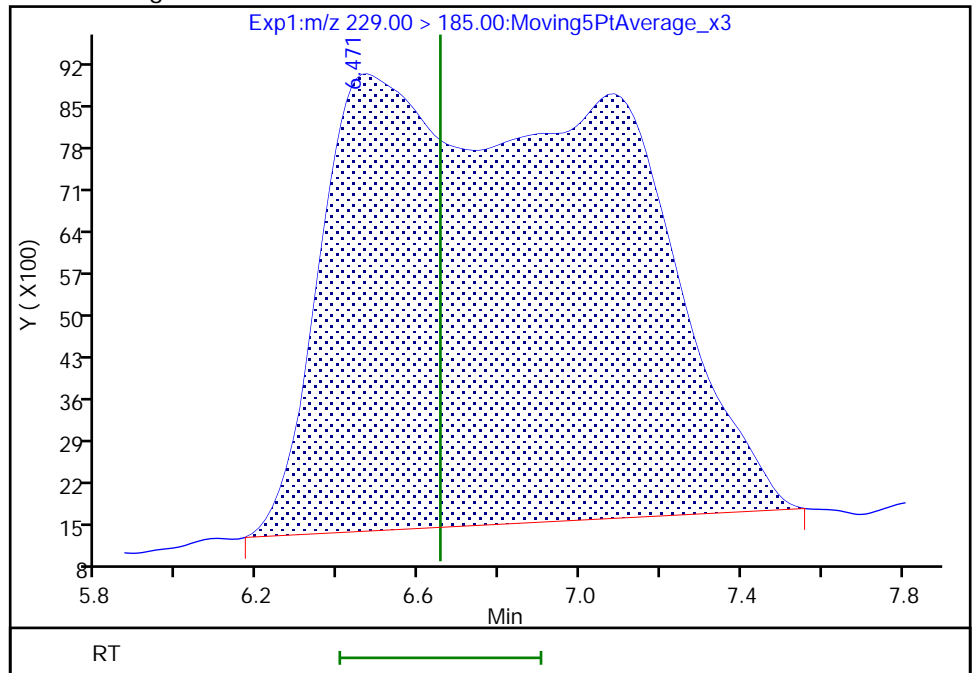
RT: 6.47  
Area: 236288  
Amount: 0.016738  
Amount Units: ng/ml

Processing Integration Results



RT: 6.47  
Area: 393492  
Amount: 0.029368  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

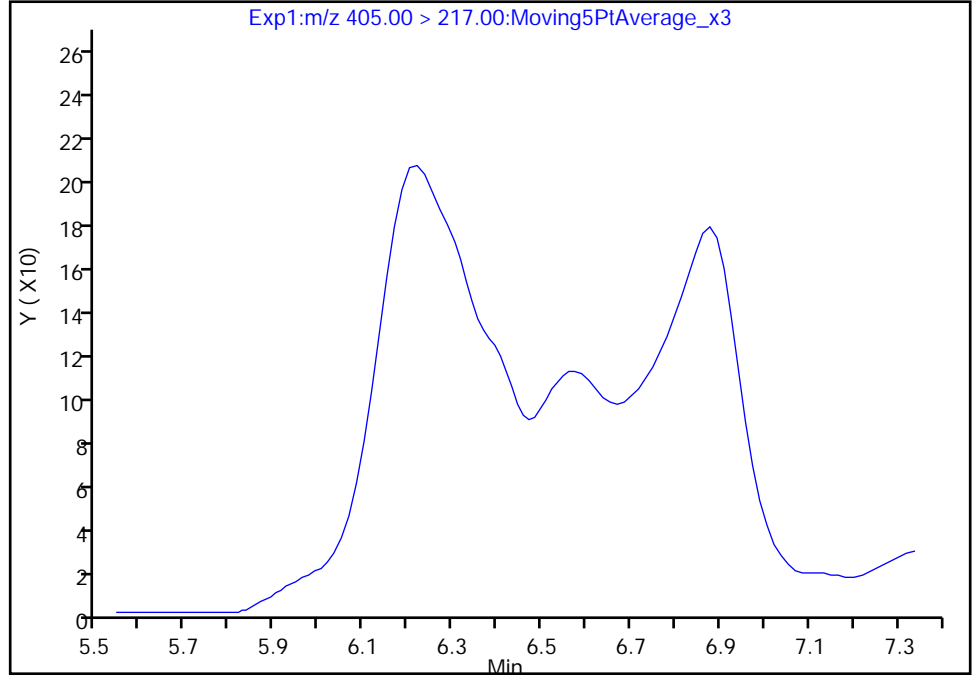
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
Client ID: SEEP-C-EFFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

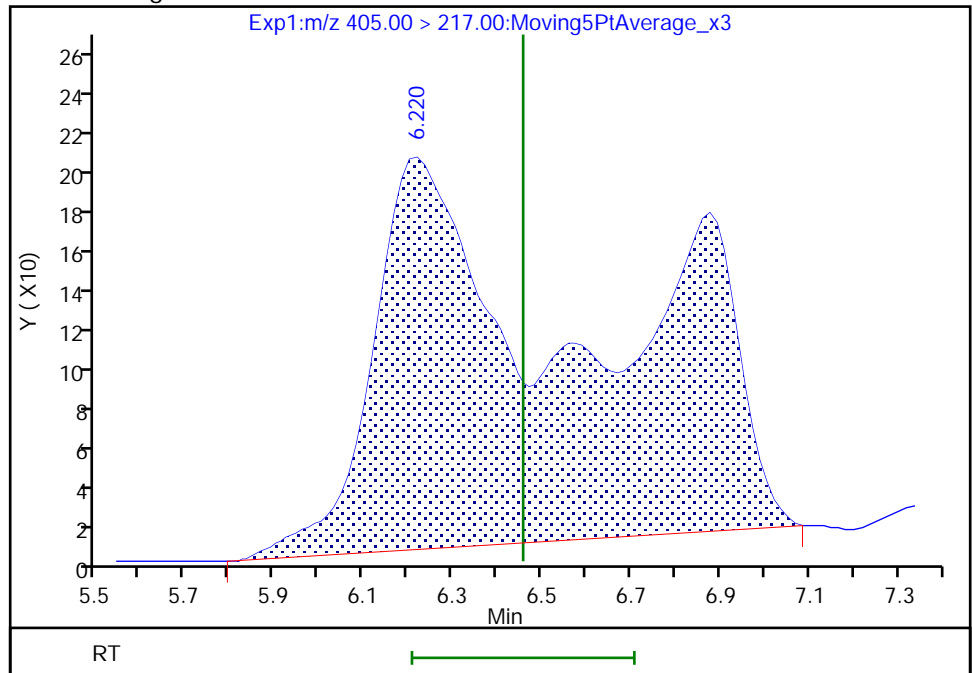
Not Detected  
Expected RT: 6.46

Processing Integration Results



Manual Integration Results

RT: 6.22  
Area: 6740  
Amount: 0.001638  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

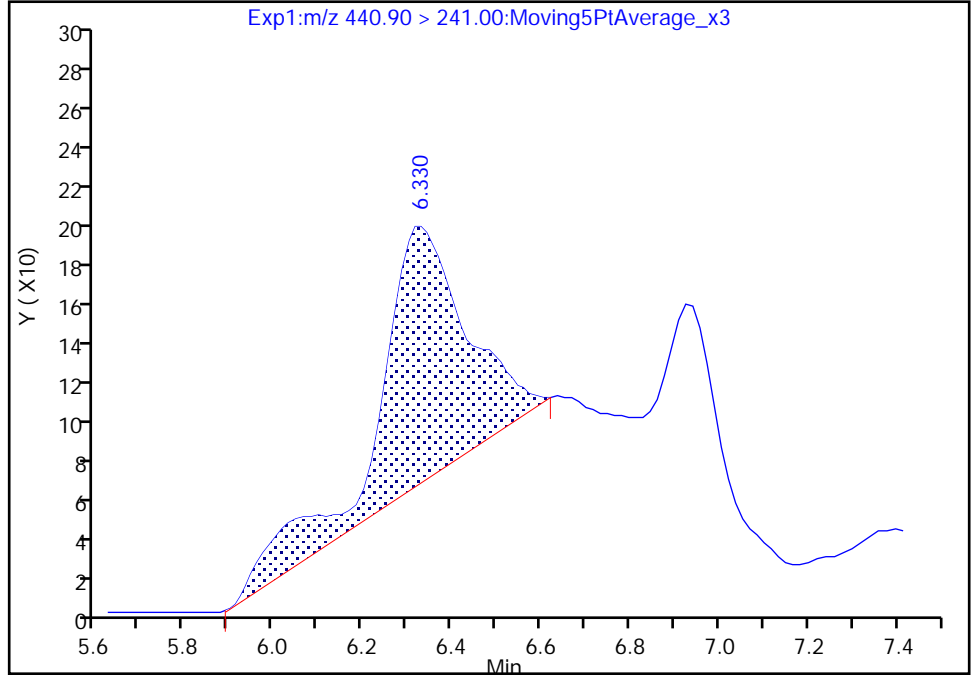
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_017.d  
 Injection Date: 24-Feb-2021 04:09:13 Instrument ID: A10  
 Lims ID: 320-70306-A-1-A Lab Sample ID: 320-70306-1  
 Client ID: SEEP-C-EFFLUENT-192-021321  
 Operator ID: Sac\_inst\_A10 ALS Bottle#: 17 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

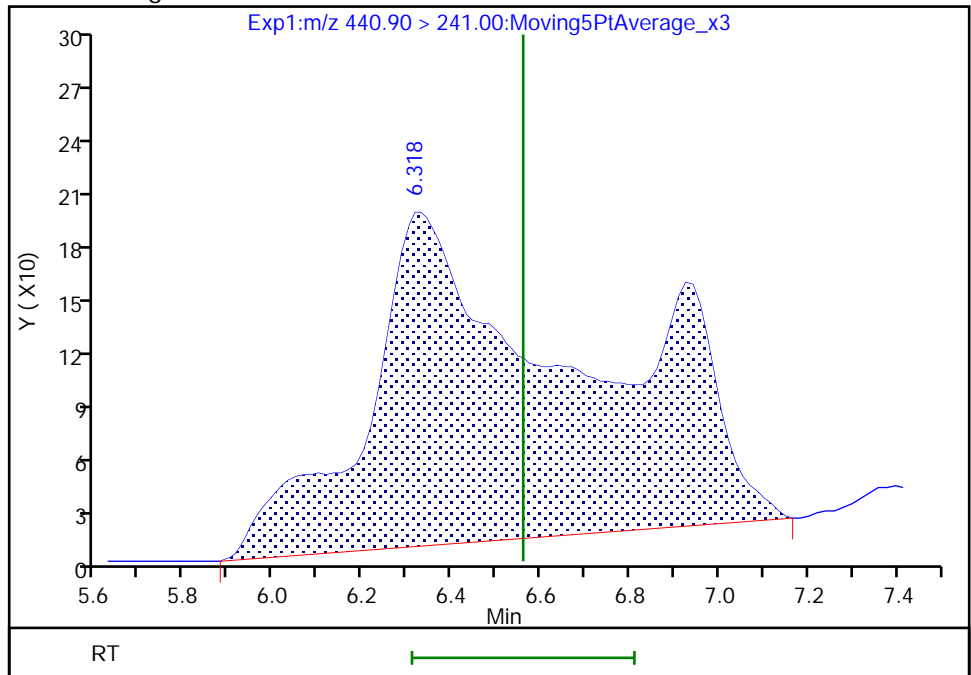
RT: 6.33  
 Area: 1794  
 Amount: 0.000660  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.32  
 Area: 6248  
 Amount: 0.002300  
 Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
 Lims ID: 320-70306-A-2-A  
 Client ID: SEEP-C-INFLUENT-192-021321  
 Sample Type: Client  
 Inject. Date: 25-Feb-2021 18:43:25 ALS Bottle#: 26 Worklist Smp#: 25  
 Injection Vol: 500.0 ul Dil. Factor: 50.0000  
 Sample Info: 320-70306-a-2-a 50X AR  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 26-Feb-2021 10:35:07 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1686

First Level Reviewer: dadunj Date: 26-Feb-2021 10:35:07  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.647	2.716	-0.069		7063290	0.7055		940		M
2 R-EVE										M
405.00 > 217.00	6.433	6.458	-0.025		31637	0.007690		667		M
3 R-PSDA										M
440.90 > 241.00	6.535	6.560	-0.025		23077	0.008496		478		M
23 PMPA										M
229.00 > 185.00	6.621	6.653	-0.032		990898	0.0774		342		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.637	6.669	-0.032		82710	0.0104		1229		M
5 NVHOS										M
297.00 > 135.00	7.241	7.260	-0.019		52476	0.006845		804		M
6 PFO2HxA										M
245.00 > 85.00	7.842	7.863	-0.021		2357779	0.2511		17392		M
22 PEPA										M
278.90 > 234.90	8.511	8.521	-0.010		168375	0.0301		239		M
7 PES										M
314.90 > 135.00	8.858	8.860	-0.002		2053	0.00004372		87.3		M
9 PFO3OA										M
310.90 > 85.00	9.314	9.321	-0.007		425170	0.0709		8320		M
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.423	9.432	-0.009		27524	0.004975	2.0	1129		M
11 HPFO-DA										M
285.00 > 169.00	9.423	9.432	-0.009	1.000	877364	0.1464		35176		M
12 R-PSDCA										M
397.00 > 217.00	9.782	9.792	-0.010		10179	0.000162		314		M
13 Hydro-EVE Acid										M
427.00 > 282.90	9.858	9.849	0.009		882394	0.0113		12144		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Hydro-PS Acid	463.00 > 262.90	9.858	9.868	-0.010	85116	0.003350			2480	
18 PFO4DA	376.90 > 85.00	10.092	10.100	-0.008	147374	0.0286			2383	
21 TAF	442.90 > 85.00	10.664	10.668	-0.004	3036	0.000810			6.7	

**QC Flag Legend**

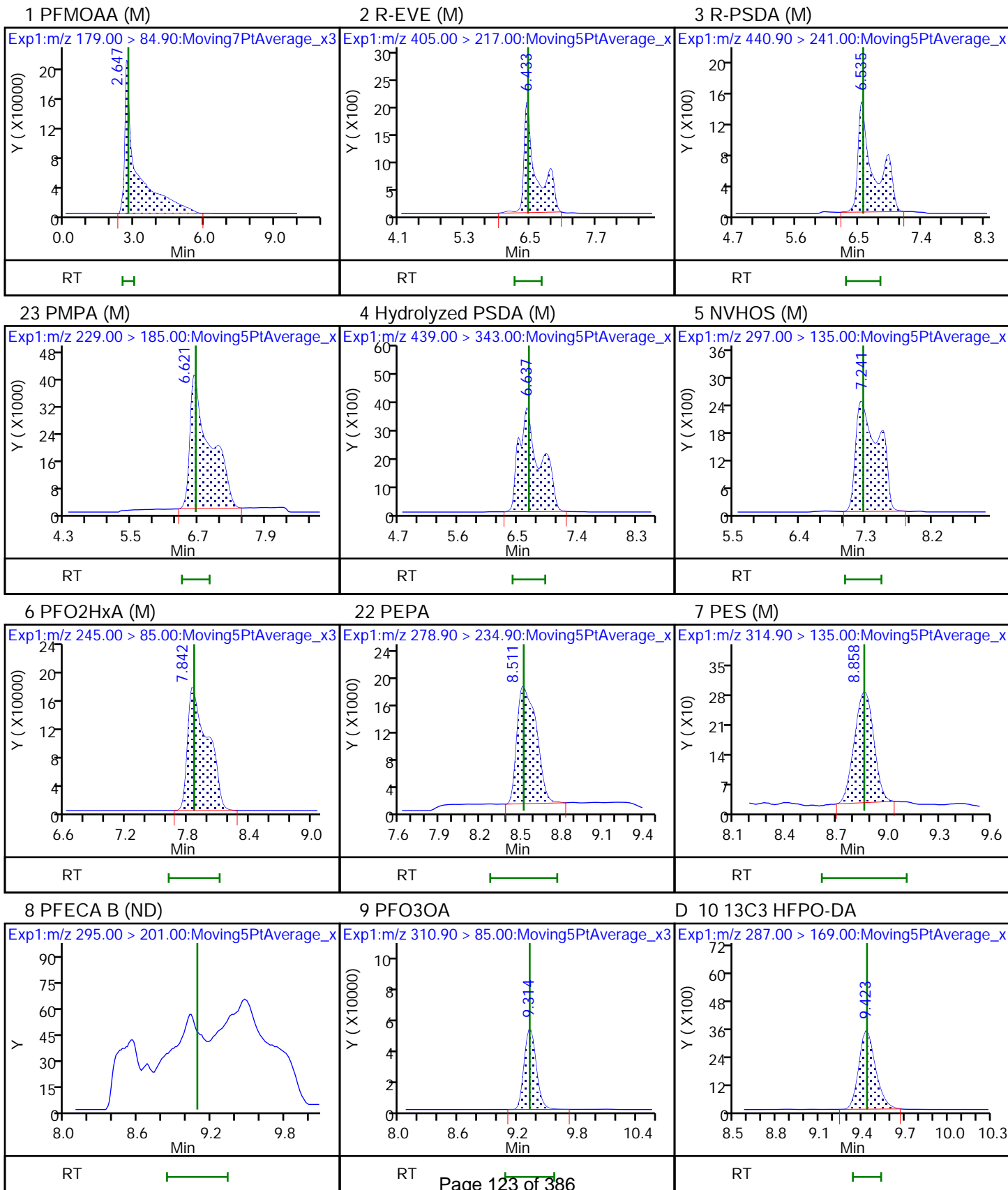
Processing Flags

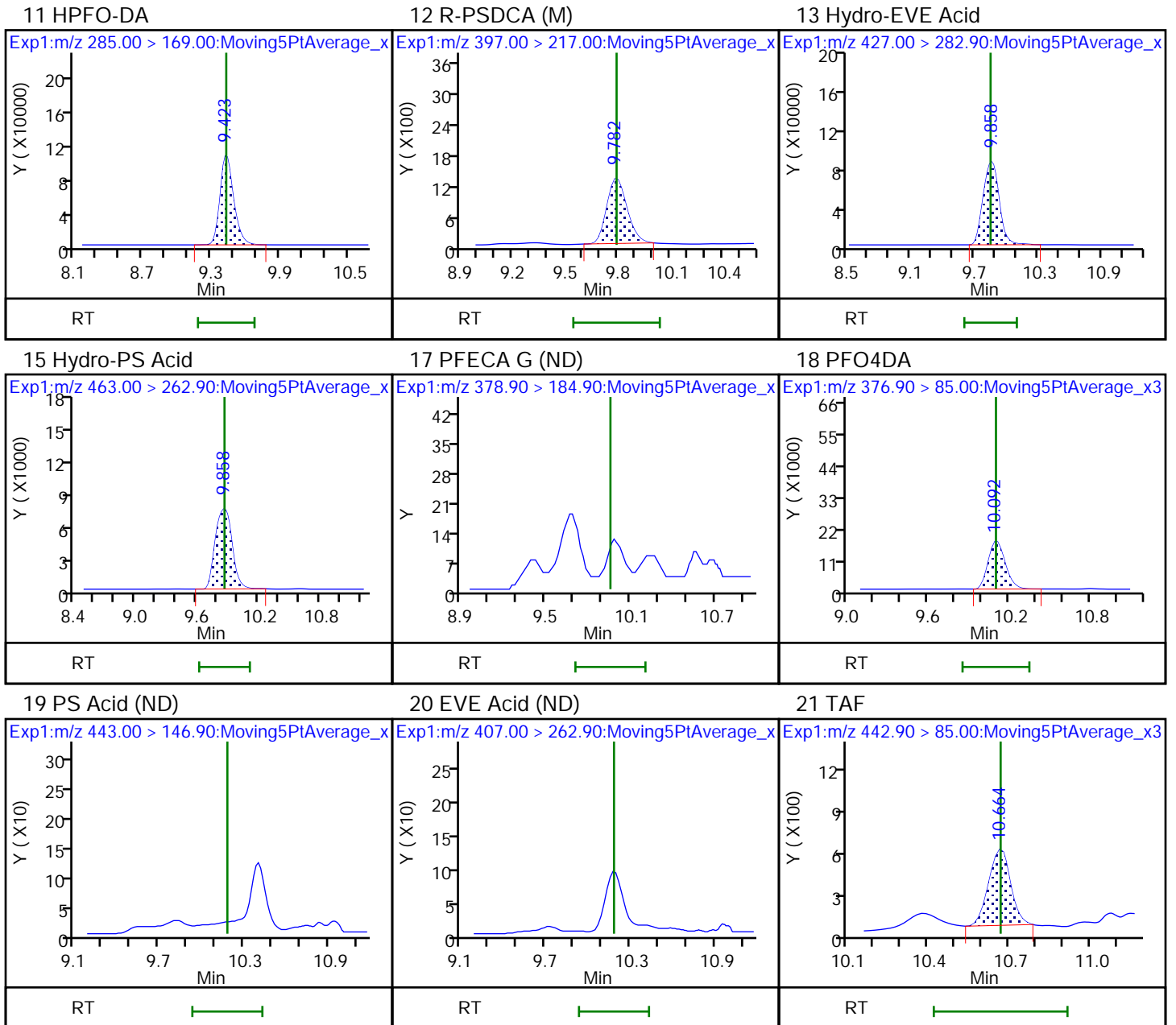
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

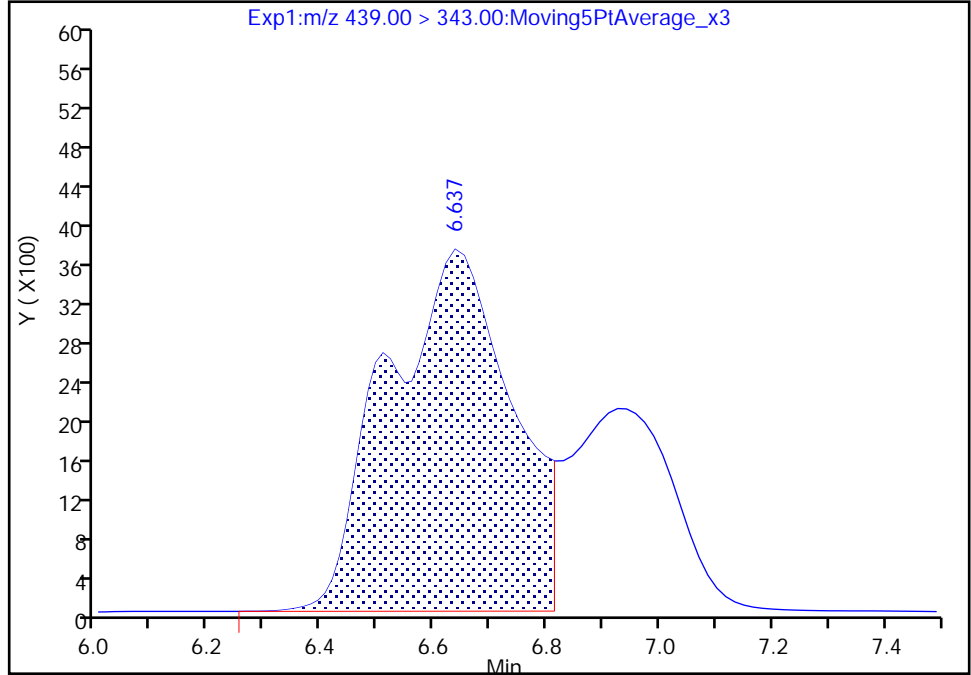
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

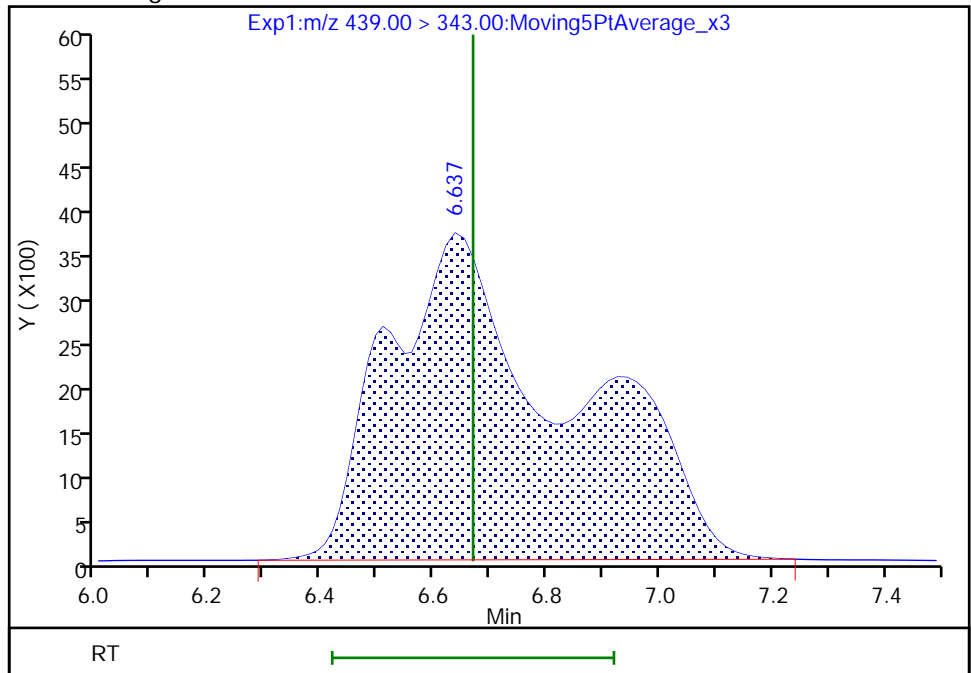
RT: 6.64  
Area: 56528  
Amount: 0.007118  
Amount Units: ng/ml

Processing Integration Results



RT: 6.64  
Area: 82710  
Amount: 0.010414  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:30  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

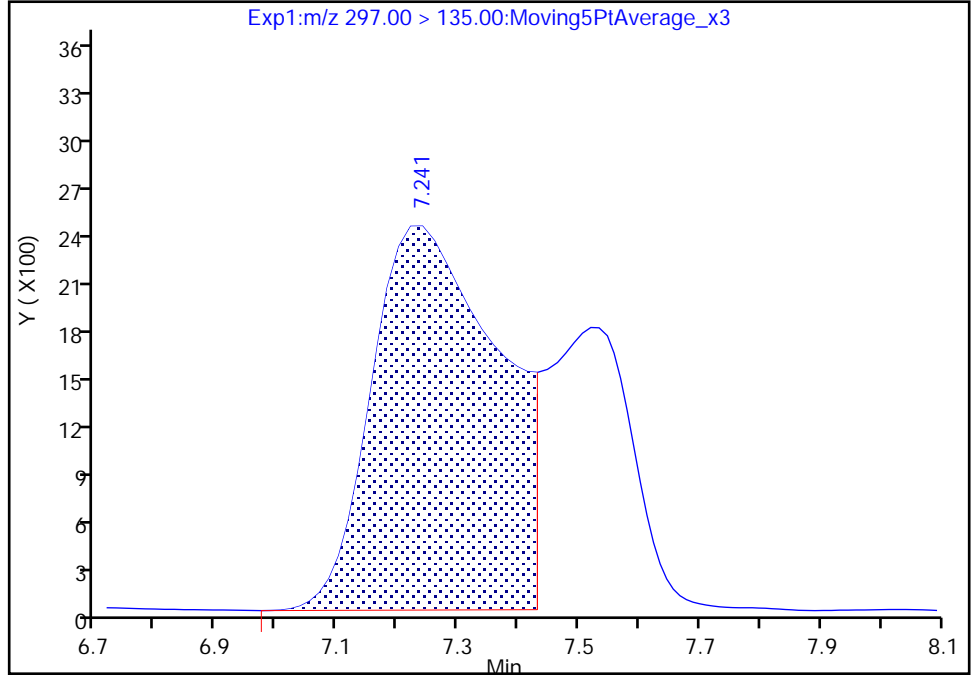
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

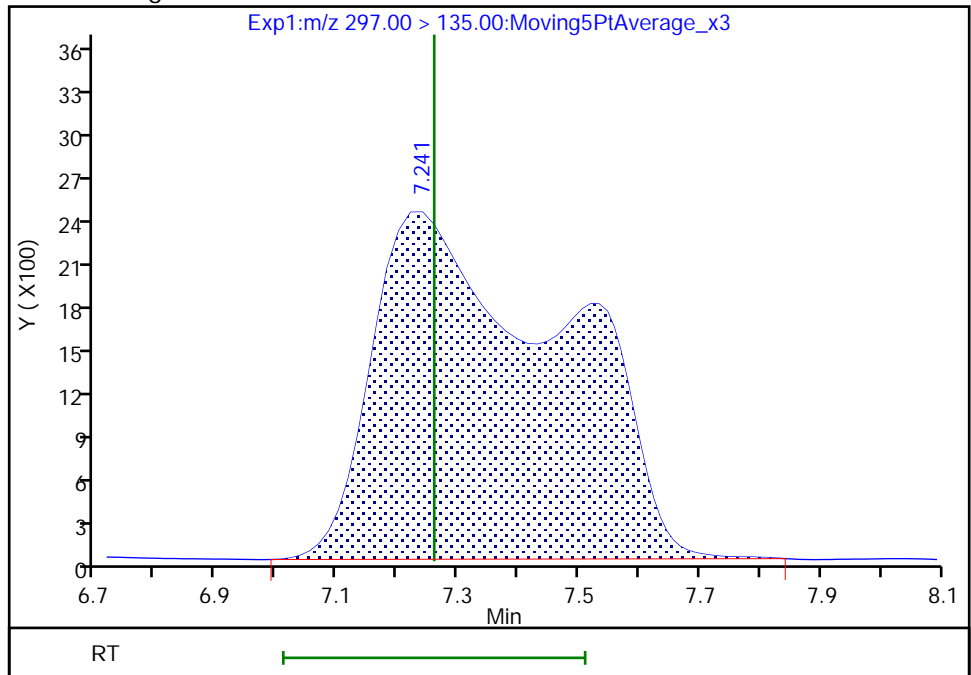
RT: 7.24  
Area: 35091  
Amount: 0.004577  
Amount Units: ng/ml

Processing Integration Results



RT: 7.24  
Area: 52476  
Amount: 0.006845  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:34  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

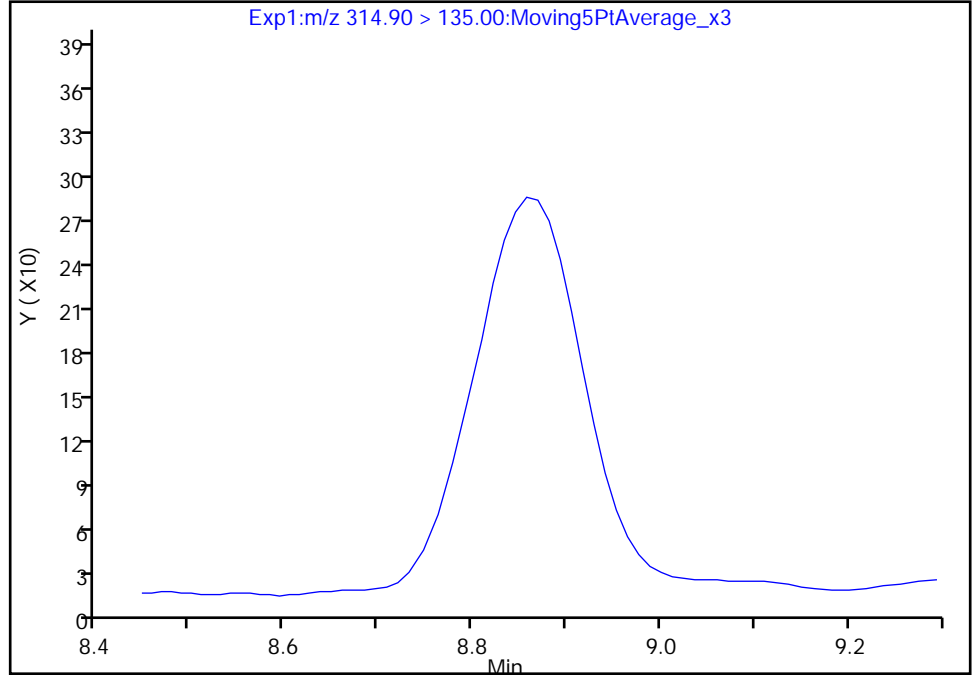
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

7 PES, CAS: 113507-82-7

Signal: 1

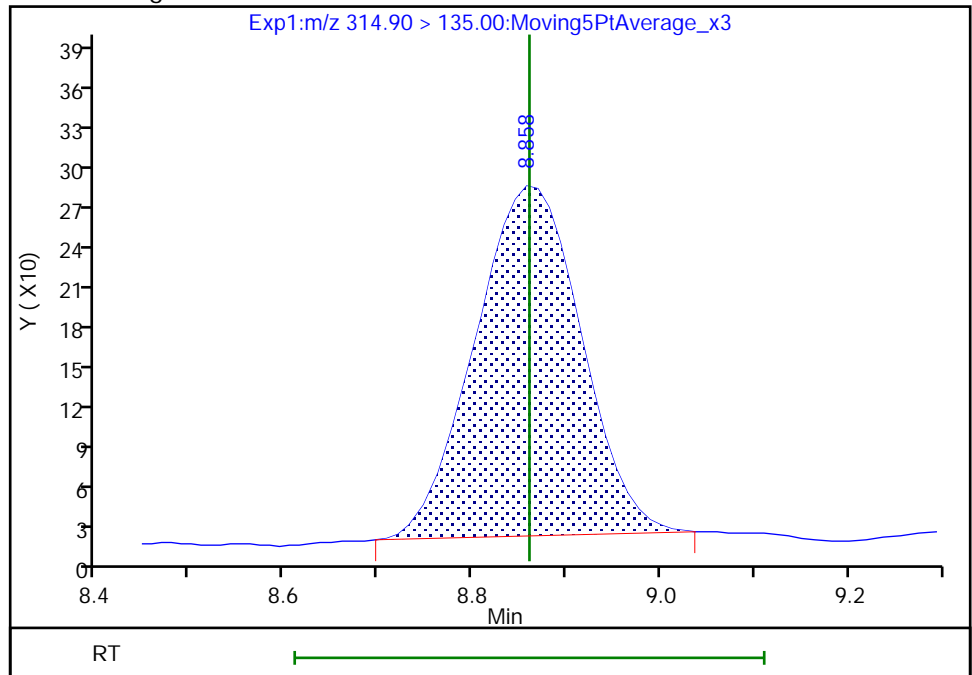
Not Detected  
Expected RT: 8.86

Processing Integration Results



Manual Integration Results

RT: 8.86  
Area: 2053  
Amount: 0.000044  
Amount Units: ng/ml



Reviewer: dadunj, 26-Feb-2021 10:34:43  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

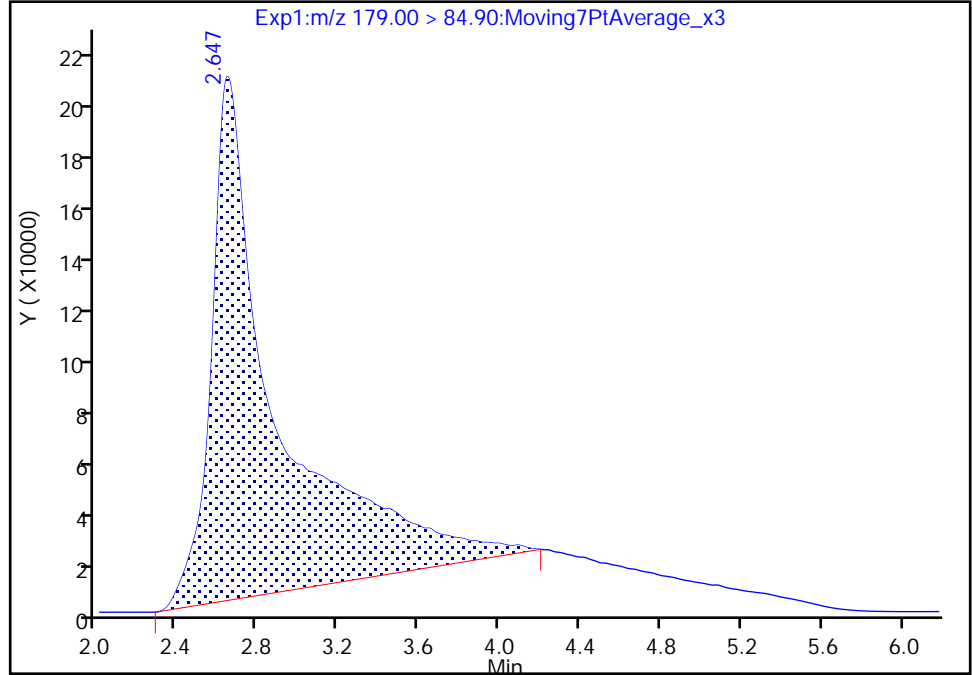
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

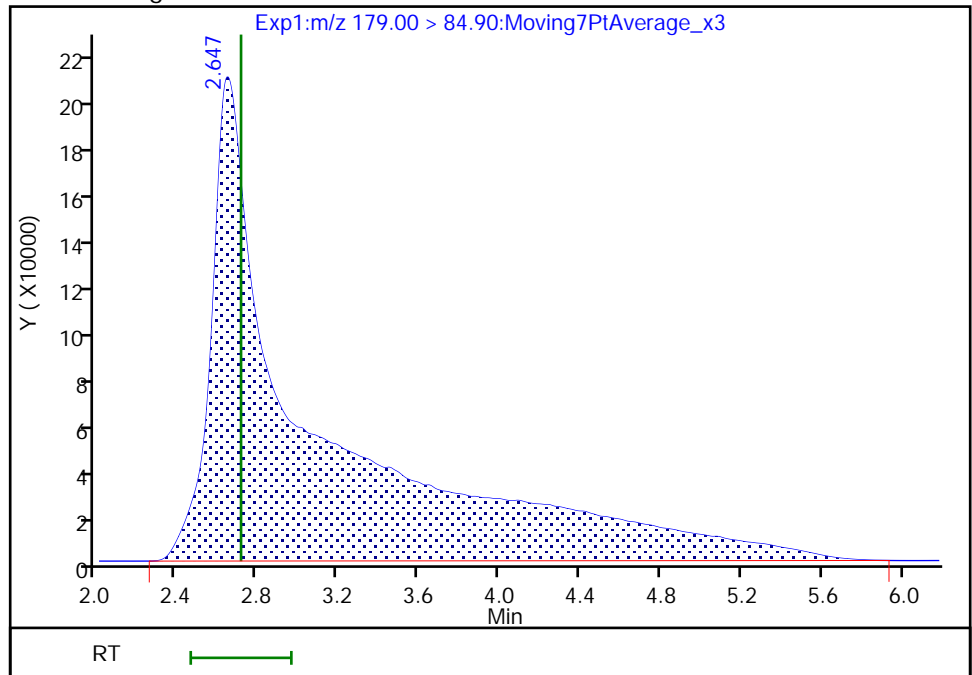
RT: 2.65  
Area: 4605905  
Amount: 0.460031  
Amount Units: ng/ml

Processing Integration Results



RT: 2.65  
Area: 7063290  
Amount: 0.705471  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

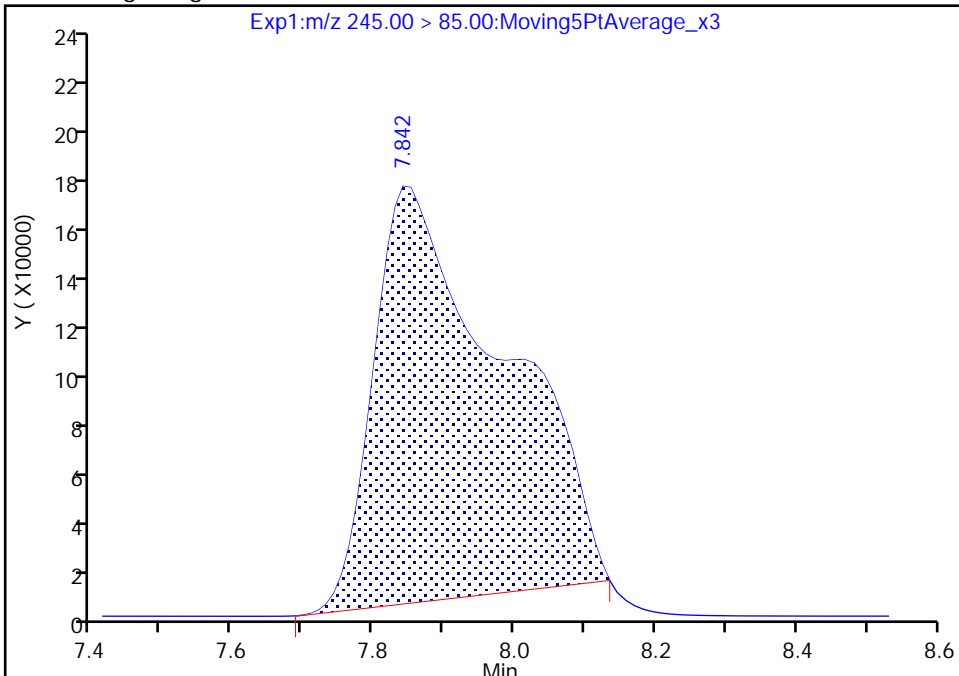
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 PFO2HxA, CAS: 39492-88-1

Signal: 1

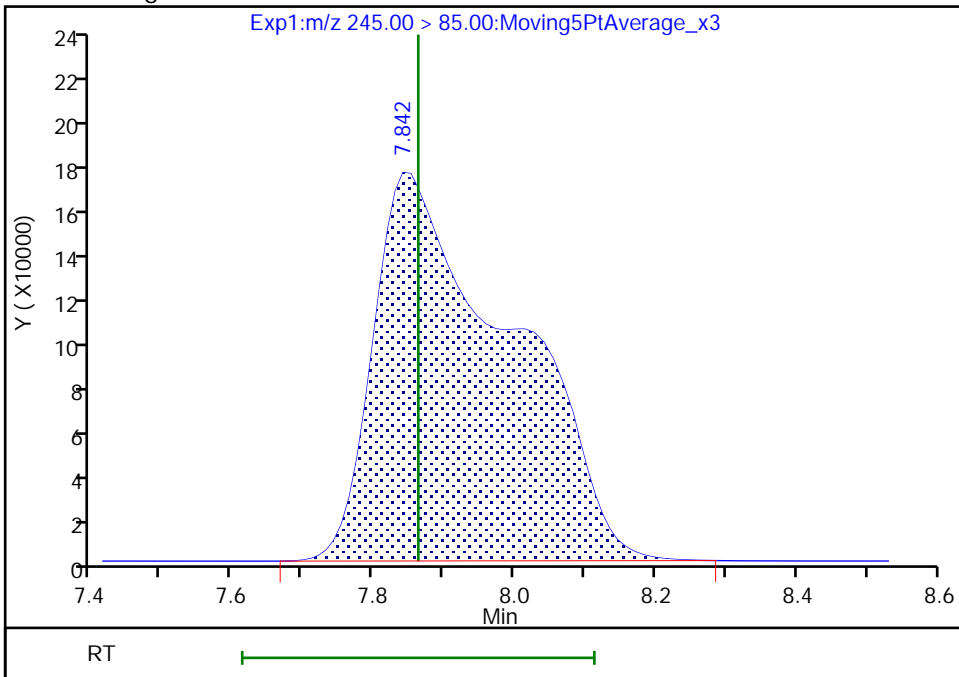
RT: 7.84  
Area: 2142788  
Amount: 0.228172  
Amount Units: ng/ml

Processing Integration Results



RT: 7.84  
Area: 2357779  
Amount: 0.251065  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

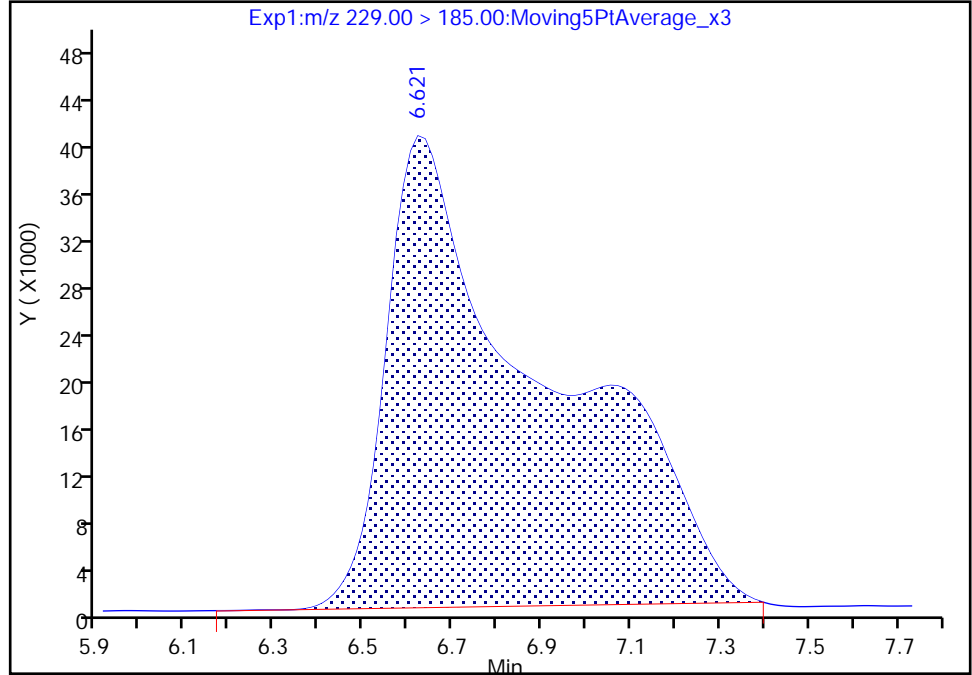
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

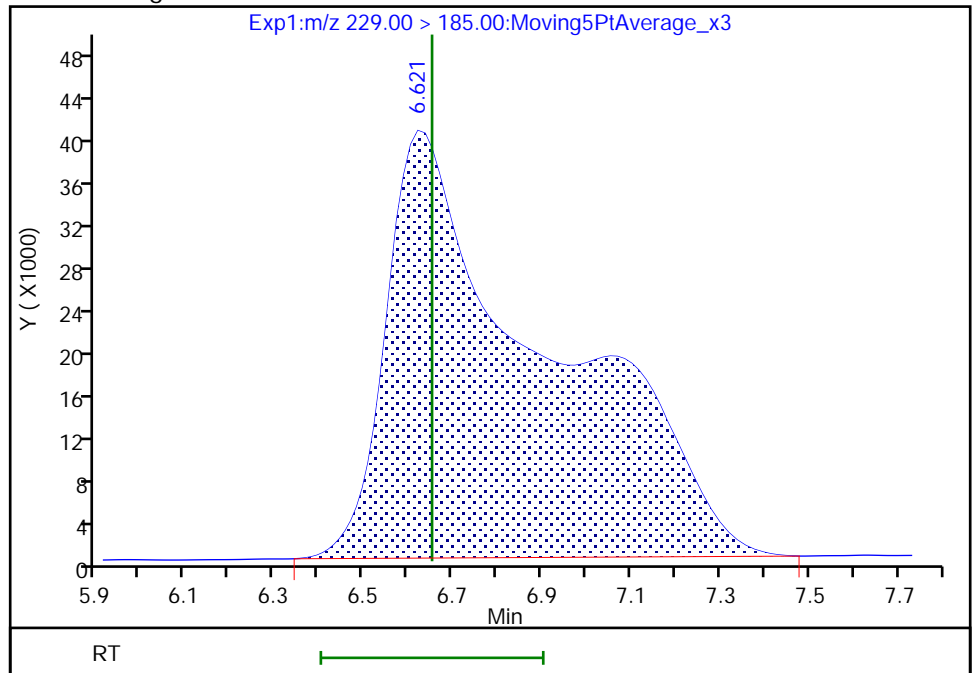
RT: 6.62  
Area: 978668  
Amount: 0.076380  
Amount Units: ng/ml

Processing Integration Results



RT: 6.62  
Area: 990898  
Amount: 0.077363  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:26  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

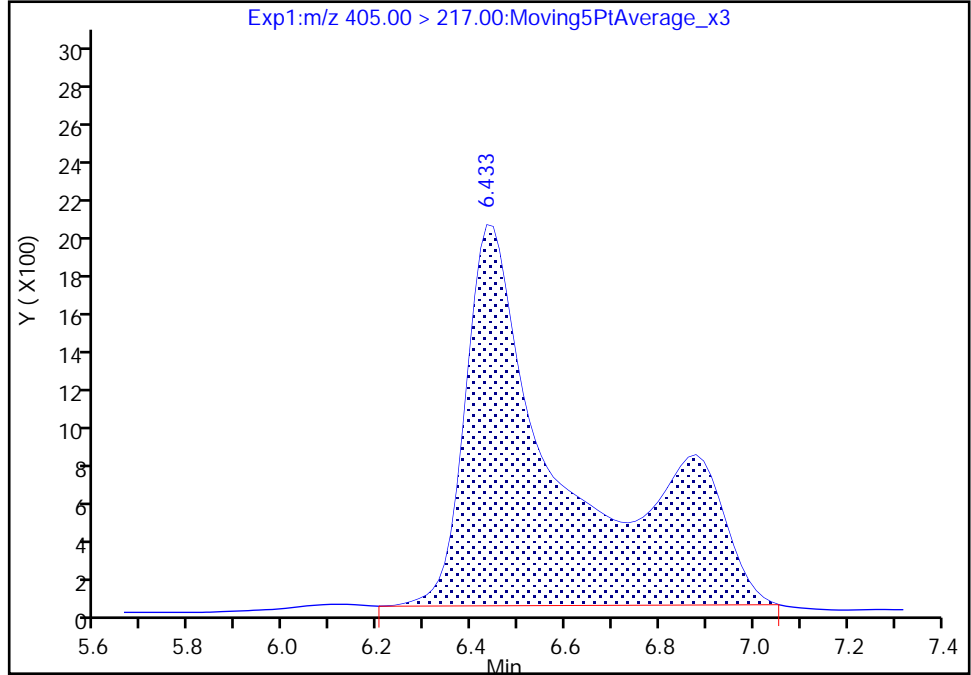
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

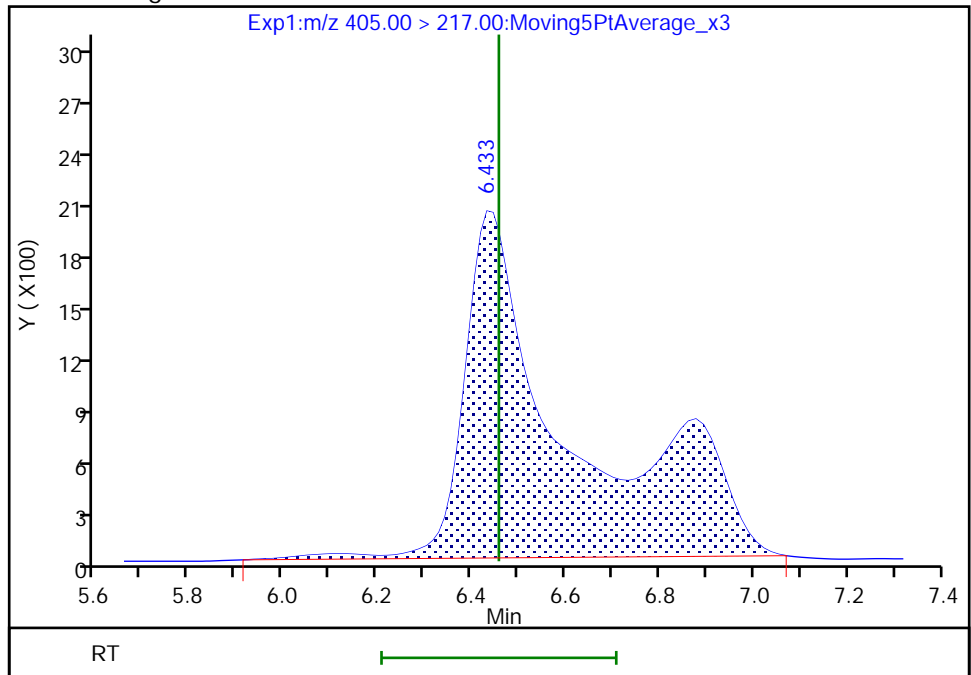
RT: 6.43  
Area: 30648  
Amount: 0.007450  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 31637  
Amount: 0.007690  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:16  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Euofins TestAmerica, Sacramento

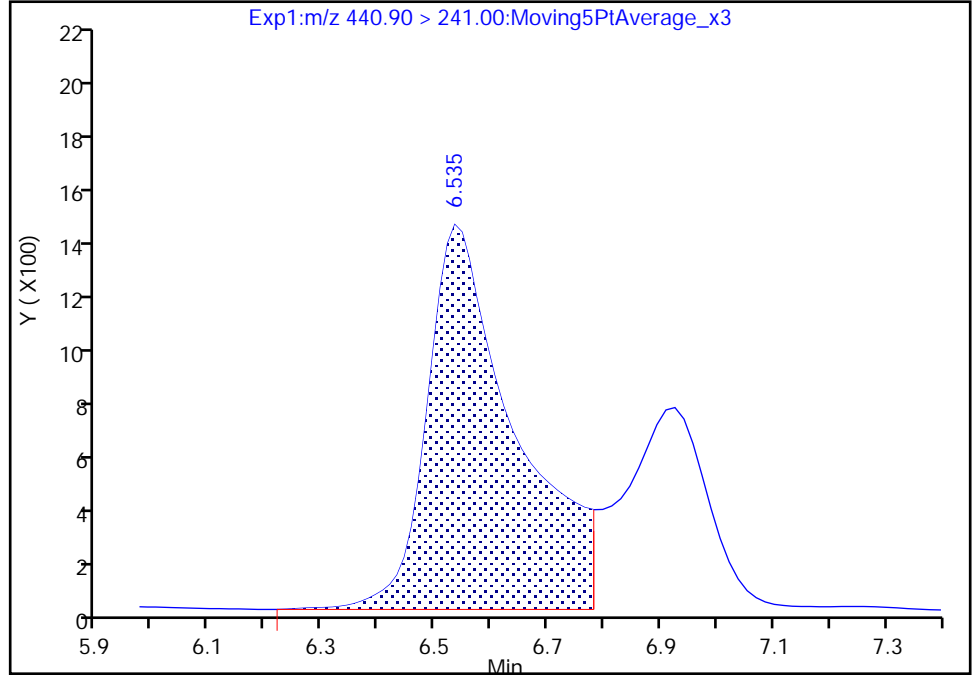
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

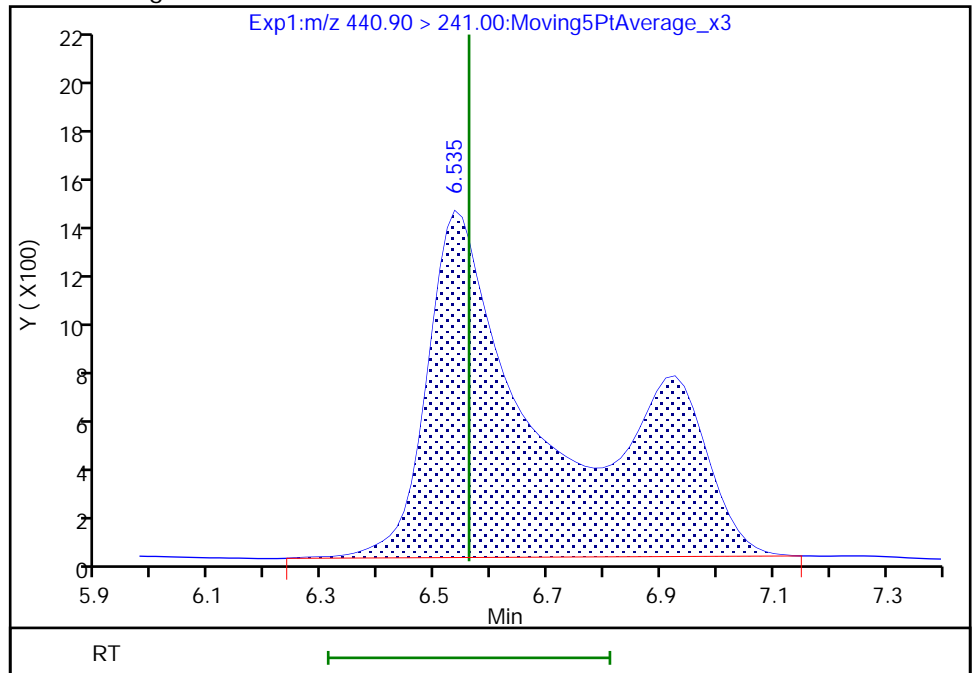
RT: 6.53  
Area: 15606  
Amount: 0.005746  
Amount Units: ng/ml

Processing Integration Results



RT: 6.53  
Area: 23077  
Amount: 0.008496  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:20  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

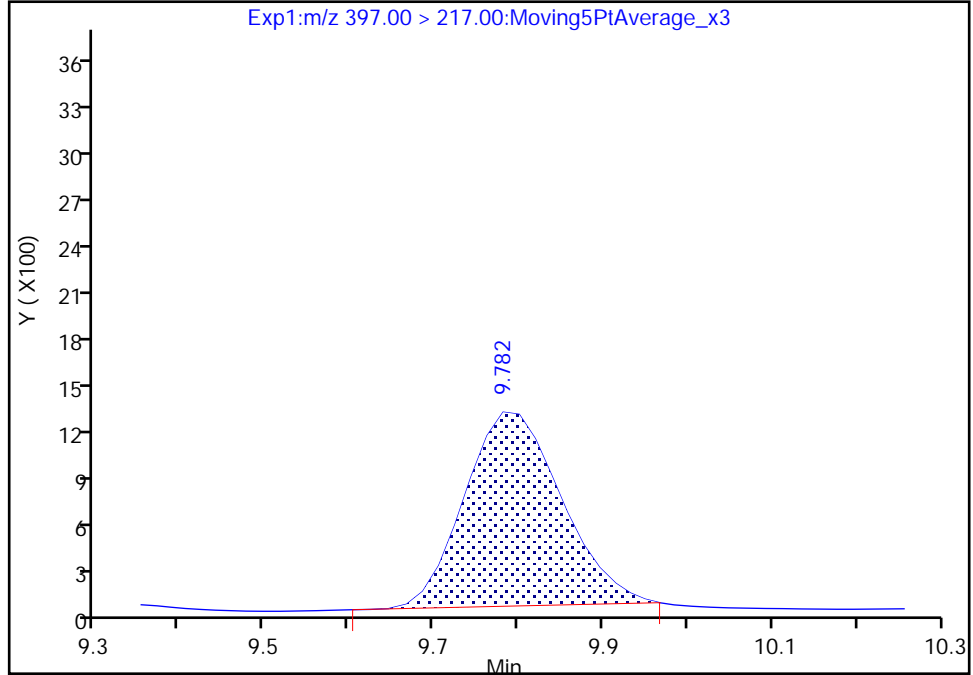
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_026.d  
Injection Date: 25-Feb-2021 18:43:25 Instrument ID: A10  
Lims ID: 320-70306-A-2-A Lab Sample ID: 320-70306-2  
Client ID: SEEP-C-INFLUENT-192-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 26 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

12 R-PSDCA, CAS: 2416366-21-5

Signal: 1

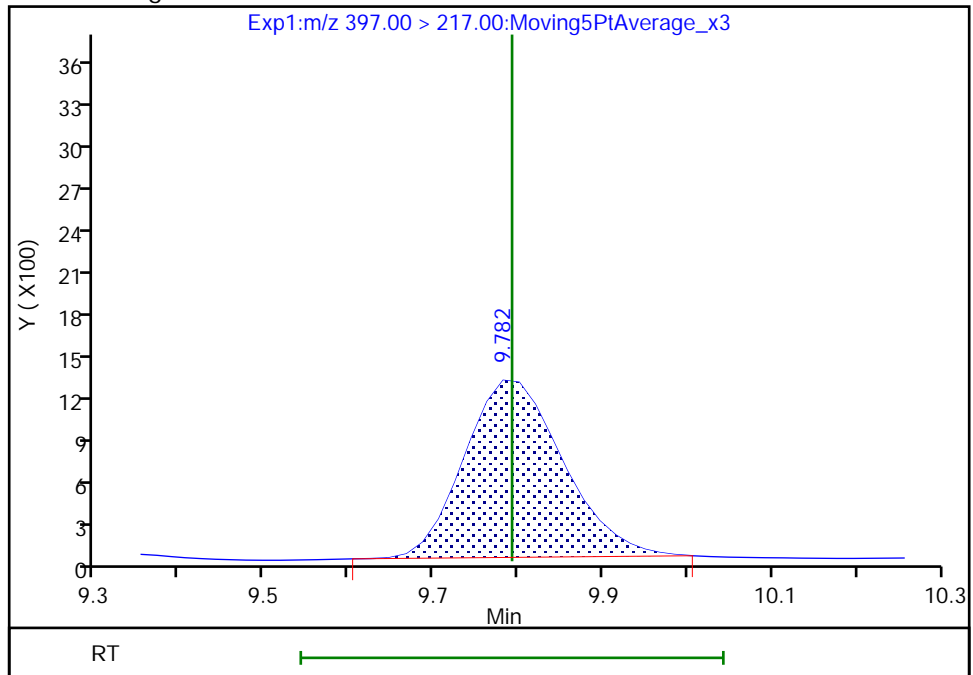
RT: 9.78  
Area: 9881  
Amount: 0.000157  
Amount Units: ng/ml

Processing Integration Results



RT: 9.78  
Area: 10179  
Amount: 0.000162  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:34:53  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
 Lims ID: 320-70306-A-3-A  
 Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
 Sample Type: Client  
 Inject. Date: 24-Feb-2021 04:44:07 ALS Bottle#: 19 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70306-a-3-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:43:02 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:43:02  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.492	2.716	-0.224		942096	0.0941		54.6		M
2 R-EVE										M
405.00 > 217.00	6.343	6.458	-0.115		1722	0.000419		29.7		M
3 R-PSDA										M
440.90 > 241.00	6.458	6.560	-0.102		1726	0.000635		32.0		M
23 PMPA										M
229.00 > 185.00	6.548	6.653	-0.105		221023	0.0155		38.9		M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.561	6.669	-0.108		7655	0.000964		105		M
5 NVHOS										M
297.00 > 135.00	7.202	7.260	-0.058		4613	0.000602		46.8		M
6 PFO2HxA										
245.00 > 85.00	7.820	7.863	-0.043		181558	0.0193		964		
22 PEPA										
278.90 > 234.90	8.511	8.521	-0.010		15463	0.002765		18.4		
9 PFO3OA										
310.90 > 85.00	9.321	9.321	0.0		35882	0.005987		514		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1296855	0.2344		93.8	51021	
11 HPFO-DA										
285.00 > 169.00	9.432	9.432	0.0	1.000	68844	0.0122		2030		
13 Hydro-EVE Acid										
427.00 > 282.90	9.866	9.849	0.017		36775	0.000466		447		
15 Hydro-PS Acid										
463.00 > 262.90	9.866	9.868	-0.002		3782	0.000149		107		
18 PFO4DA										
376.90 > 85.00	10.098	10.100	-0.002		10102	0.001958		67.1		

[QC Flag Legend](#)

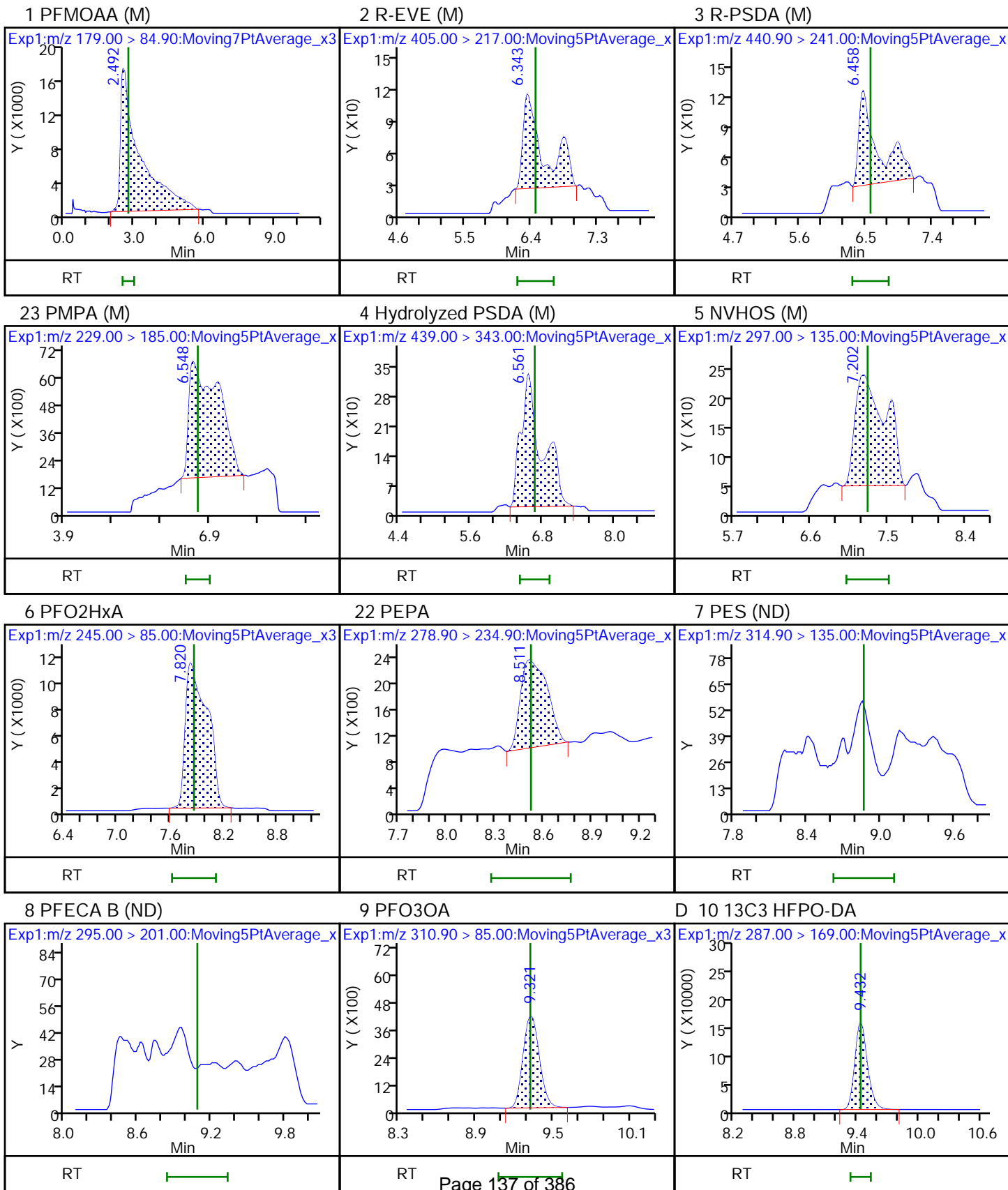
Processing Flags

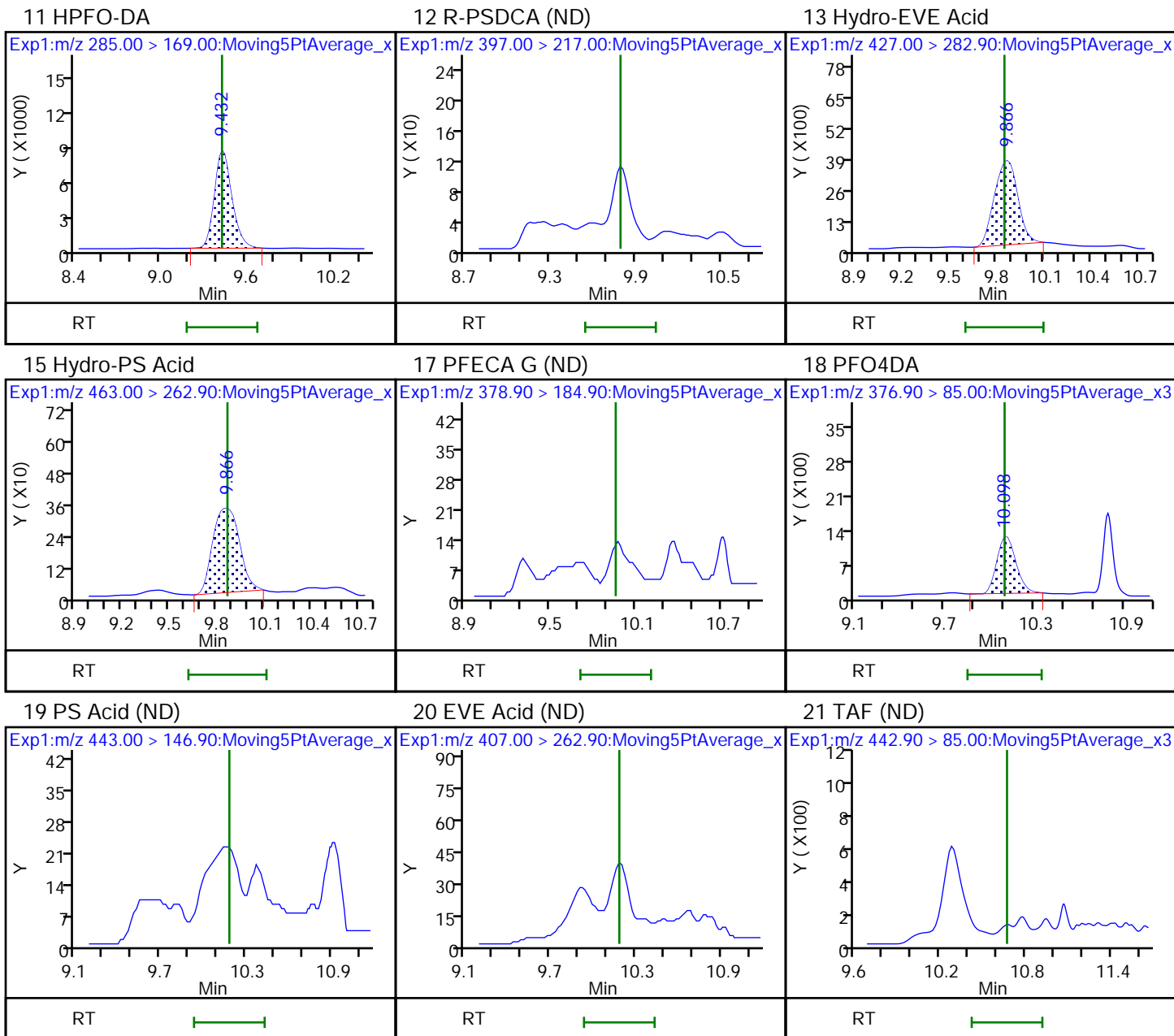
Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFA5\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

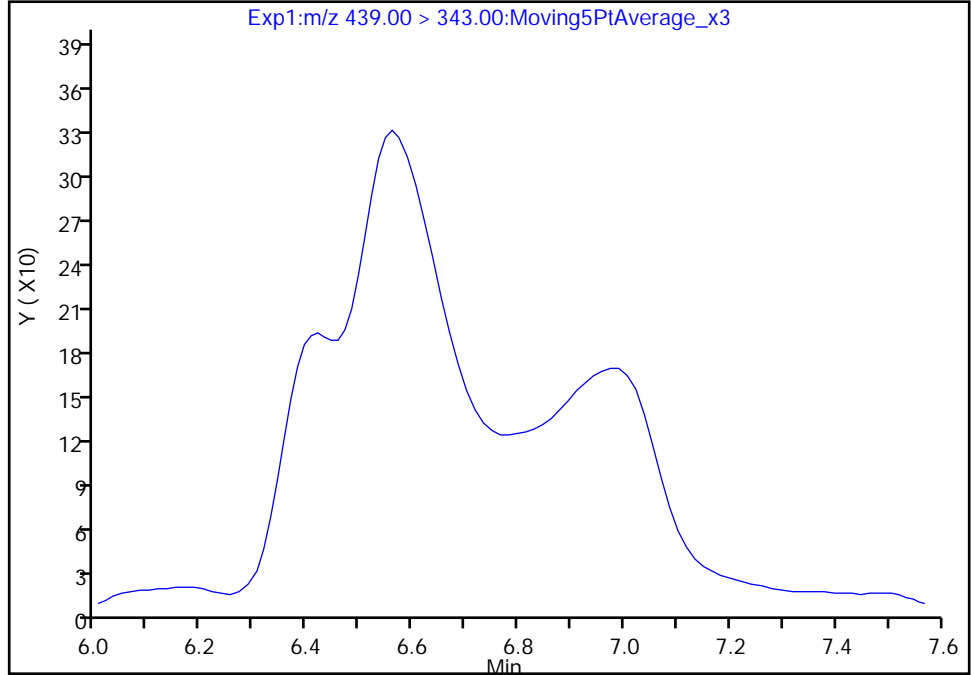
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

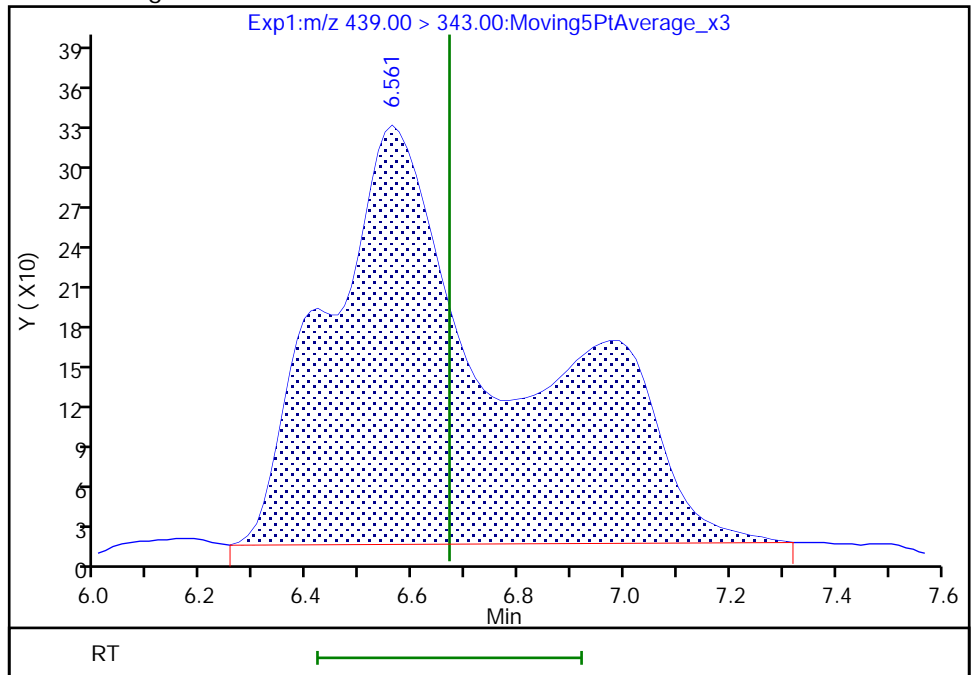
Not Detected  
Expected RT: 6.67

Processing Integration Results



Manual Integration Results

RT: 6.56  
Area: 7655  
Amount: 0.000964  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:39

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

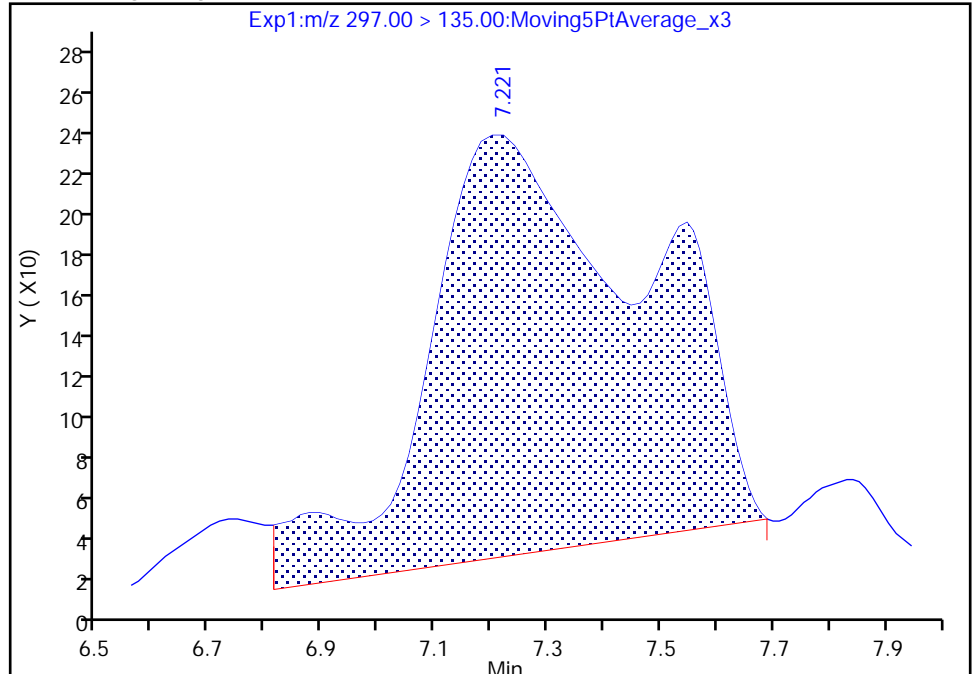
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

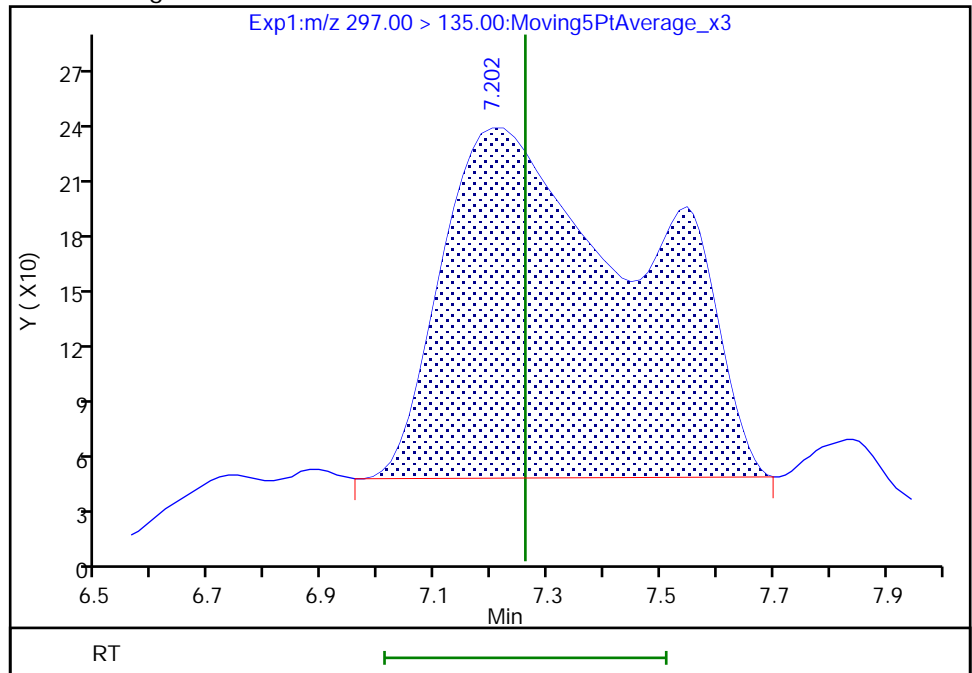
RT: 7.22  
Area: 5443  
Amount: 0.000710  
Amount Units: ng/ml

Processing Integration Results



RT: 7.20  
Area: 4613  
Amount: 0.000602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:44  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

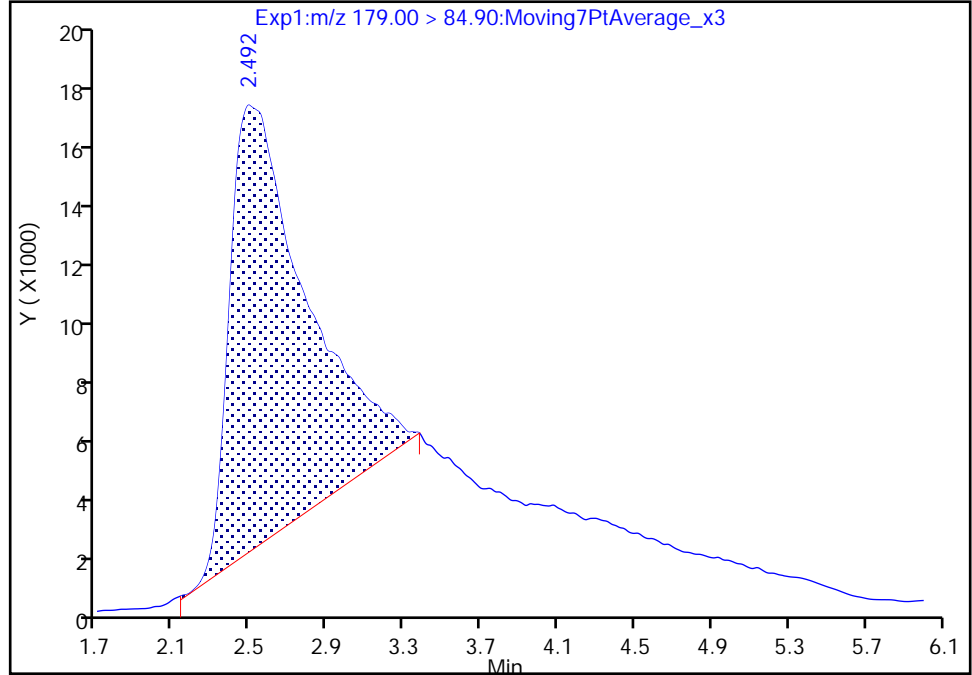
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

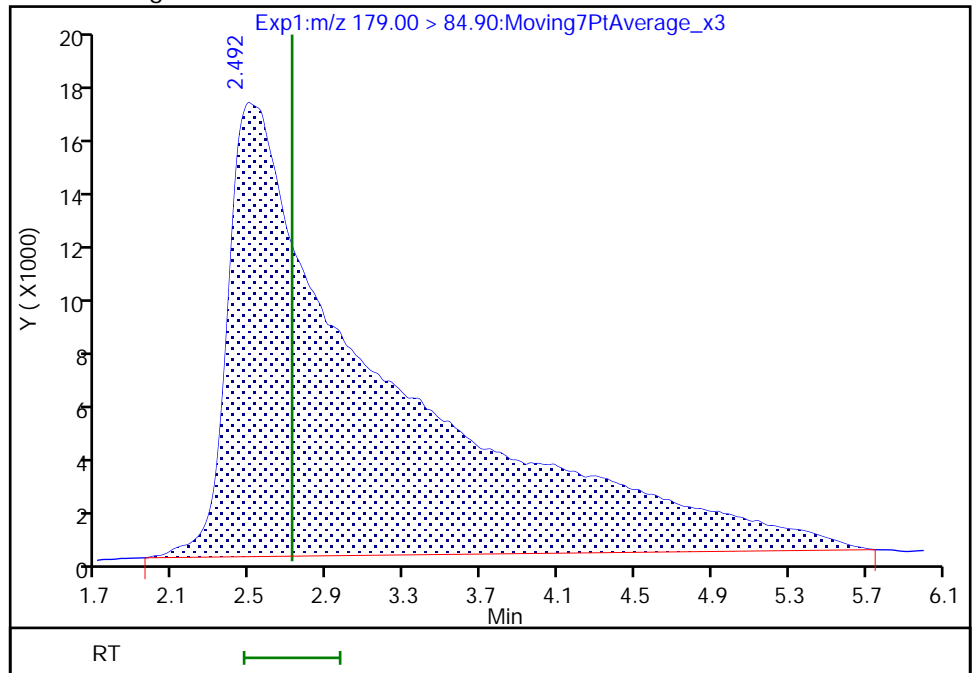
RT: 2.49  
Area: 401676  
Amount: 0.040119  
Amount Units: ng/ml

Processing Integration Results



RT: 2.49  
Area: 942096  
Amount: 0.094095  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:15

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

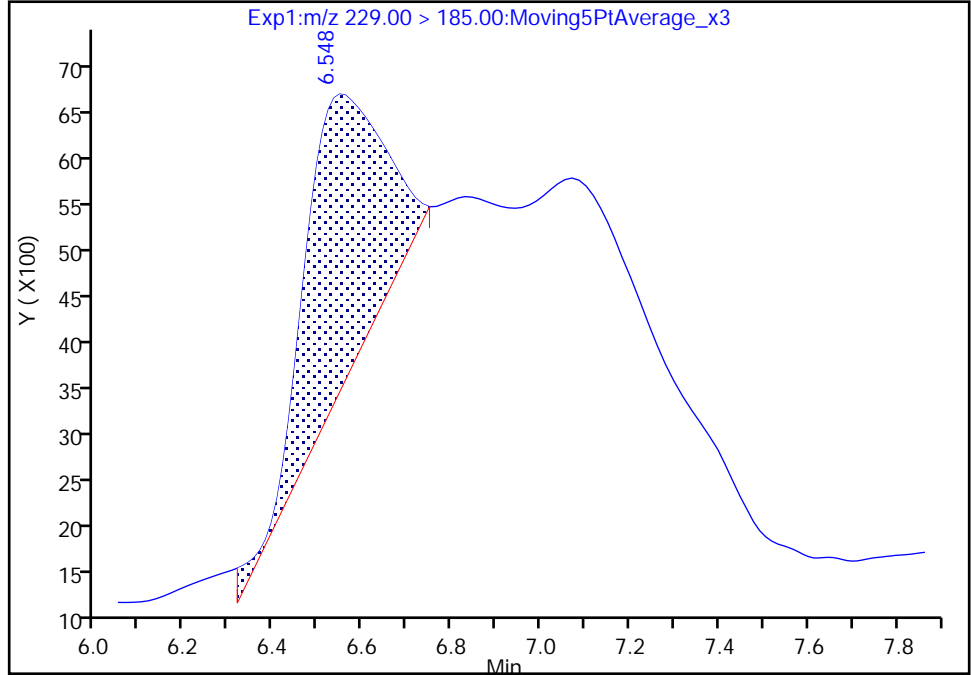
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

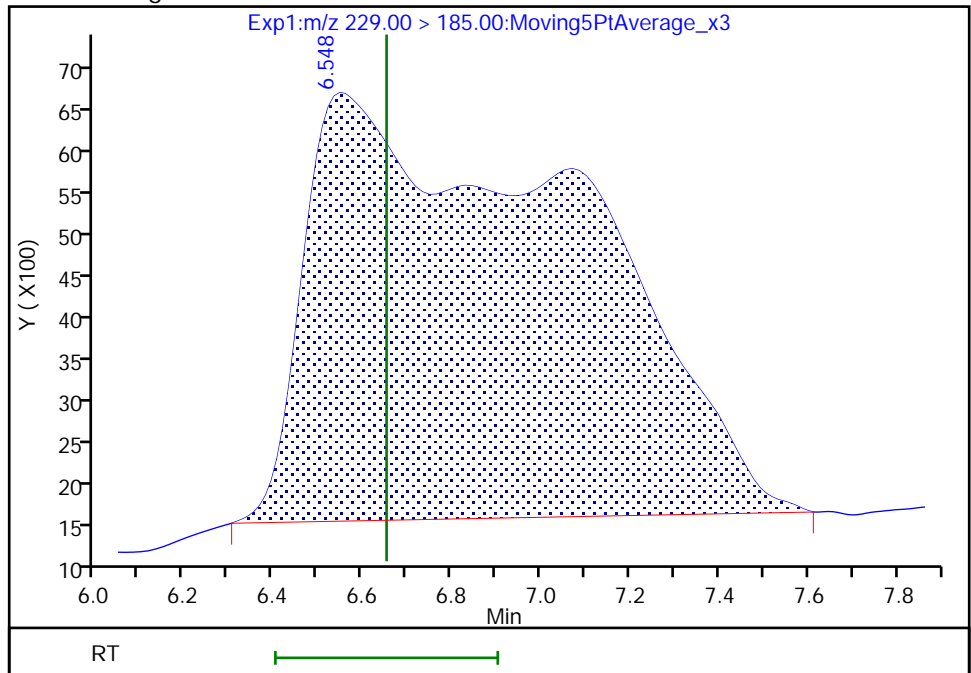
RT: 6.55  
Area: 39064  
Amount: 0.000893  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 221023  
Amount: 0.015512  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:34

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

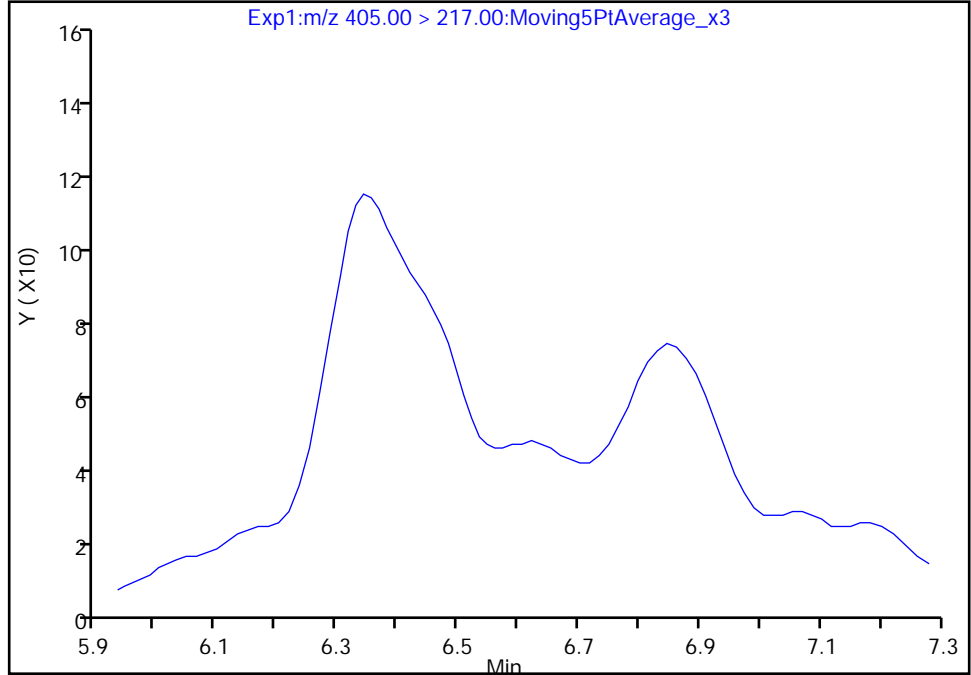
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

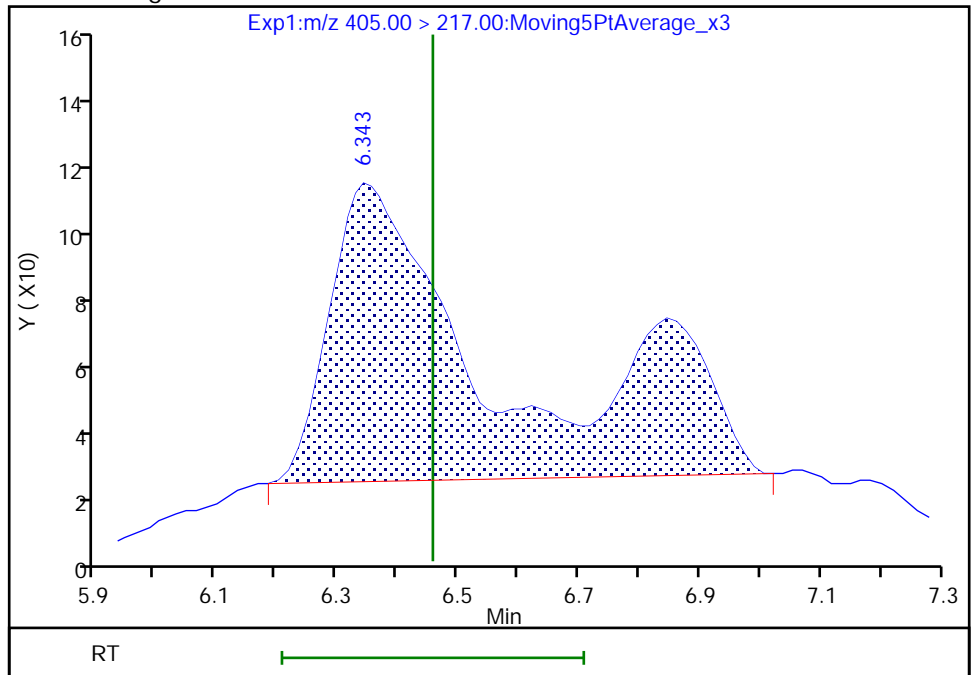
Not Detected  
Expected RT: 6.46

Processing Integration Results



Manual Integration Results

RT: 6.34  
Area: 1722  
Amount: 0.000419  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

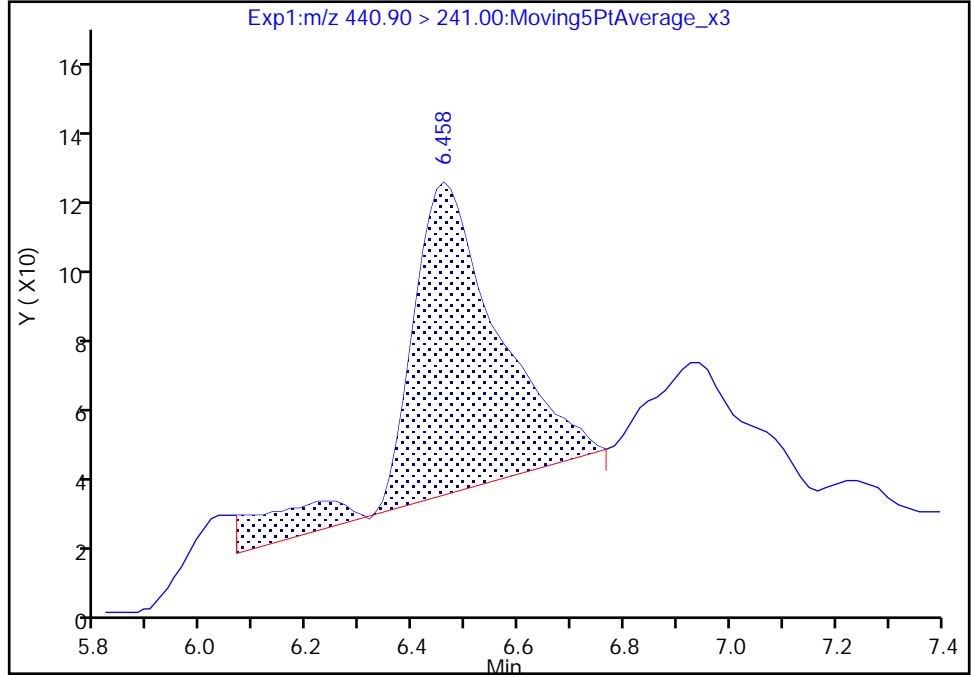
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_019.d  
Injection Date: 24-Feb-2021 04:44:07 Instrument ID: A10  
Lims ID: 320-70306-A-3-A Lab Sample ID: 320-70306-3  
Client ID: SEEP-C-RAIN-EFFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 19 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

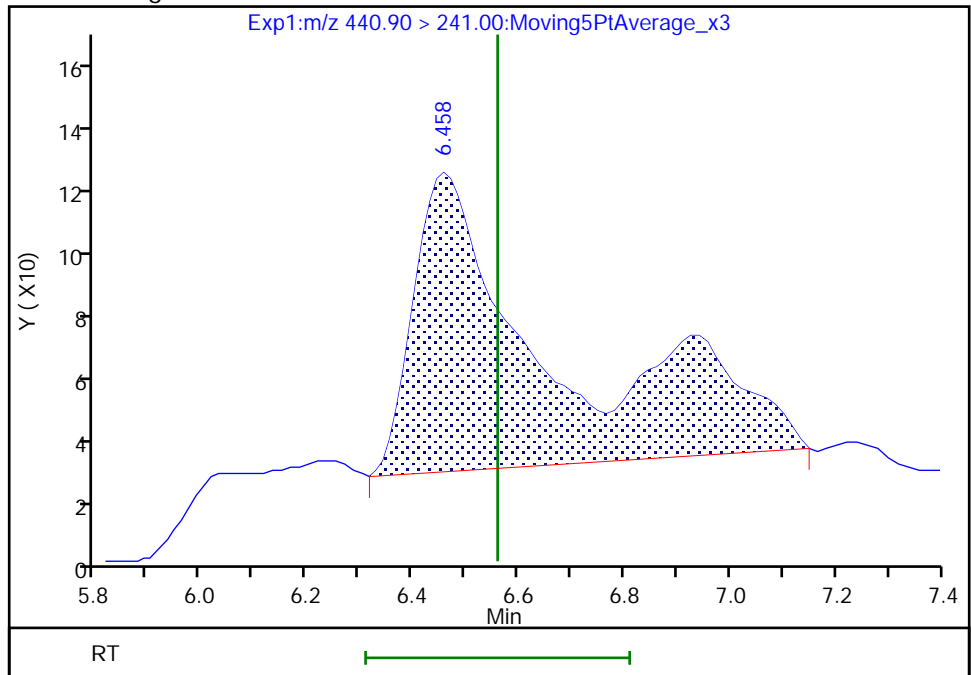
RT: 6.46  
Area: 1089  
Amount: 0.000401  
Amount Units: ng/ml

Processing Integration Results



RT: 6.46  
Area: 1726  
Amount: 0.000635  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:42:30

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_027.d  
 Lims ID: 320-70306-A-4-A  
 Client ID: SEEP-C-RAIN-INFLUENT-24-021321  
 Sample Type: Client  
 Inject. Date: 25-Feb-2021 19:00:53 ALS Bottle#: 27 Worklist Smp#: 26  
 Injection Vol: 500.0 ul Dil. Factor: 50.0000  
 Sample Info: 320-70306-a-4-a 50X AR  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 26-Feb-2021 10:51:48 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1686

First Level Reviewer: dadunj Date: 26-Feb-2021 10:51:48  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.426	2.716	0.710		6912379	0.6904			1219	M
2 R-EVE										
405.00 > 217.00	6.682	6.458	0.224		31479	0.007652			1083	
3 R-PSDA										M
440.90 > 241.00	6.762	6.560	0.202		21892	0.008060			774	M
23 PMPA										
229.00 > 185.00	6.874	6.653	0.221		942555	0.0735			662	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.842	6.669	0.173		82644	0.0104			2061	
5 NVHOS										
297.00 > 135.00	7.395	7.260	0.134		51735	0.006748			1554	
6 PFO2HxA										
245.00 > 85.00	7.942	7.863	0.079		2320028	0.2470			31511	
22 PEPA										
278.90 > 234.90	8.558	8.521	0.037		156919	0.0281			362	
7 PES										
314.90 > 135.00	8.860	8.860	0.0		1934	0.00004118			87.5	
9 PFO3OA										
310.90 > 85.00	9.316	9.321	-0.005		406744	0.0679			8420	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.426	9.432	-0.006		30729	0.005555		2.2	1328	
11 HPFO-DA										
285.00 > 169.00	9.426	9.432	-0.006	1.000	859389	0.1284			36318	
12 R-PSDCA										
397.00 > 217.00	9.784	9.792	-0.008		8756	0.000139			380	
13 Hydro-EVE Acid										
427.00 > 282.90	9.841	9.849	-0.008		880852	0.0112			11951	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Hydro-PS Acid	463.00 > 262.90	9.841	9.868	-0.027	86881	0.003419			2518	
18 PFO4DA	376.90 > 85.00	10.094	10.100	-0.006	152781	0.0296			2915	
21 TAF	442.90 > 85.00	10.651	10.668	-0.017	3123	0.000833			6.7	

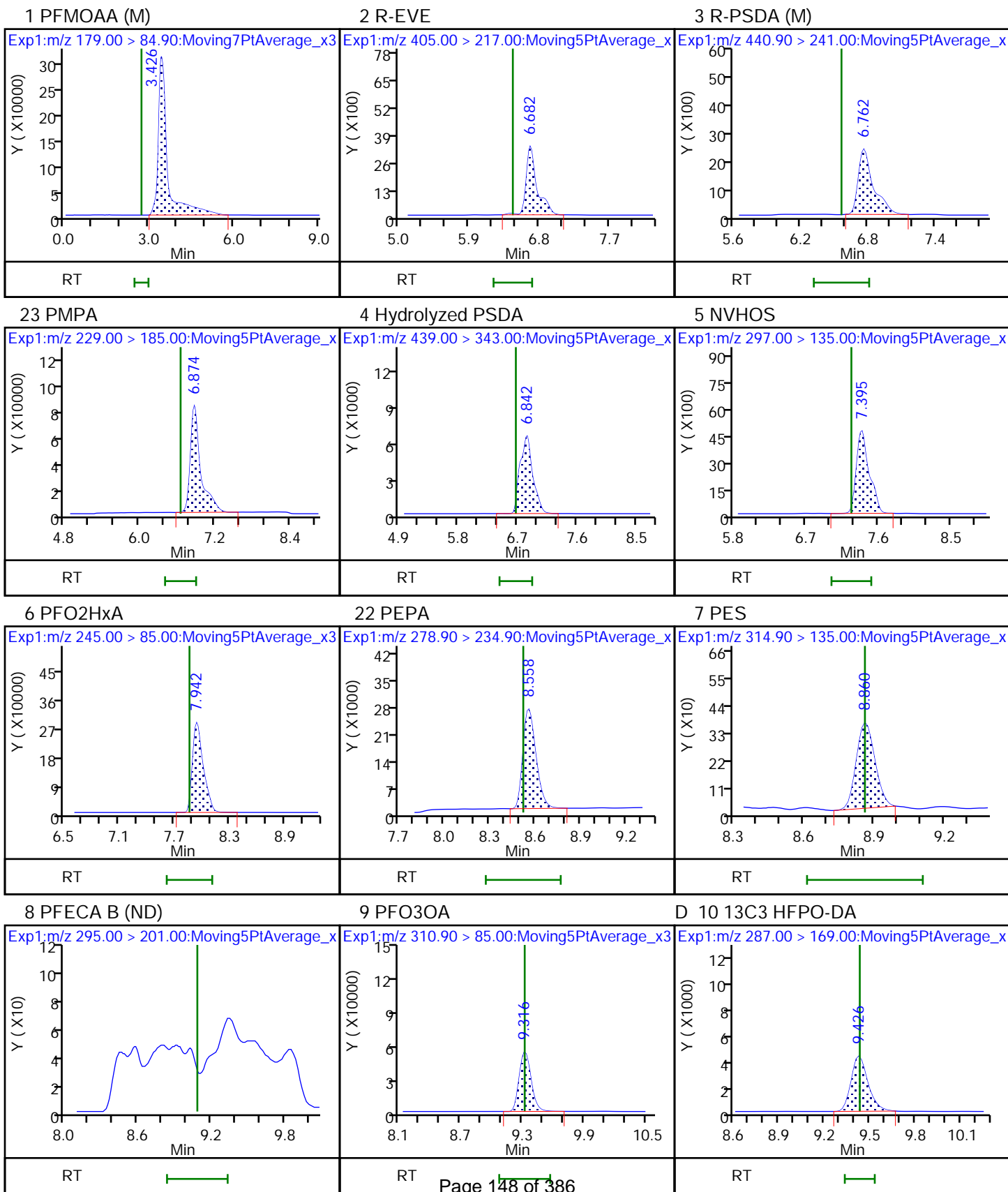
**QC Flag Legend**

Processing Flags

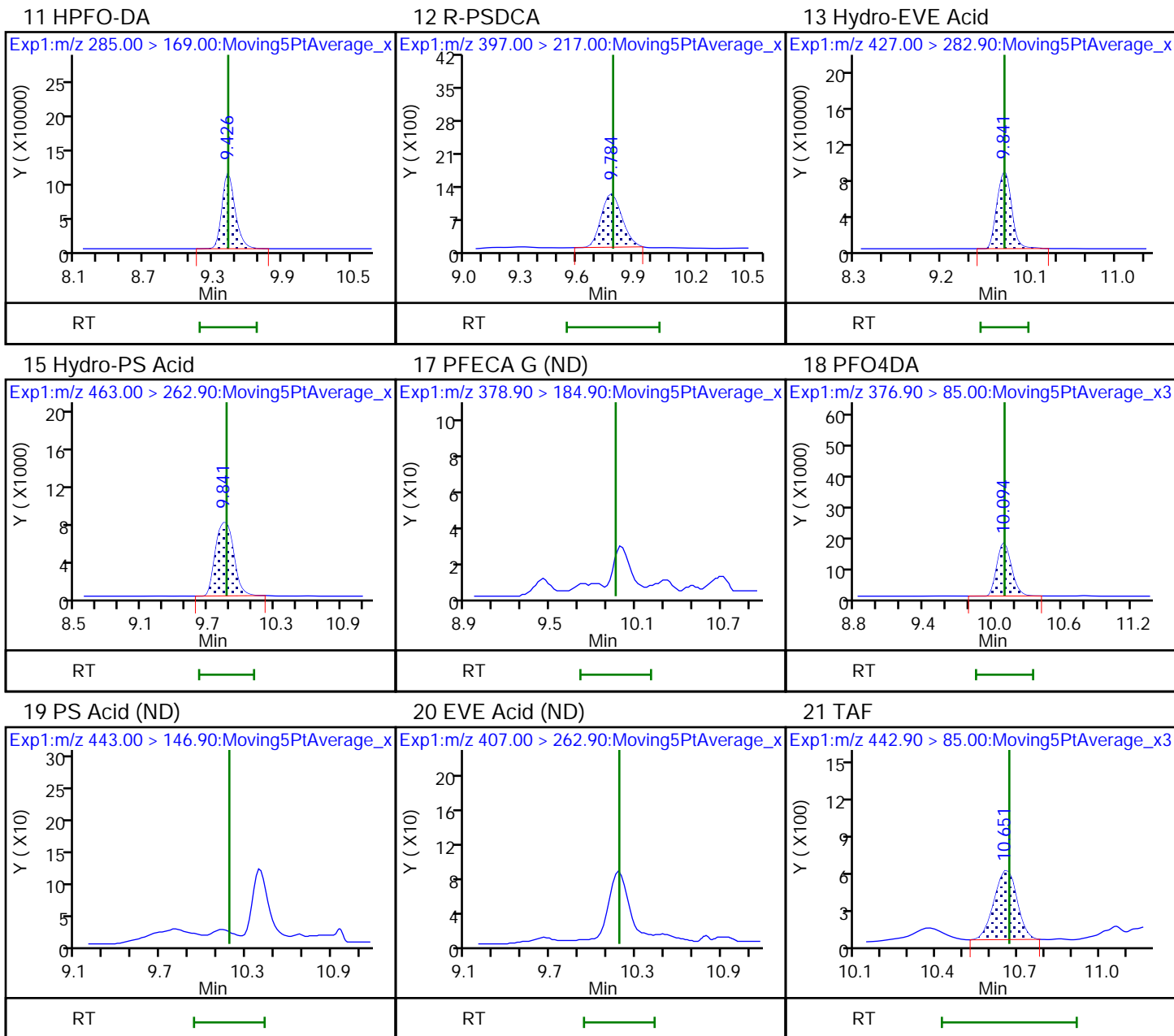
Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_027.d  
Injection Date: 25-Feb-2021 19:00:53 Instrument ID: A10  
Lims ID: 320-70306-A-4-A Lab Sample ID: 320-70306-4  
Client ID: SEEP-C-RAIN-INFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 26  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

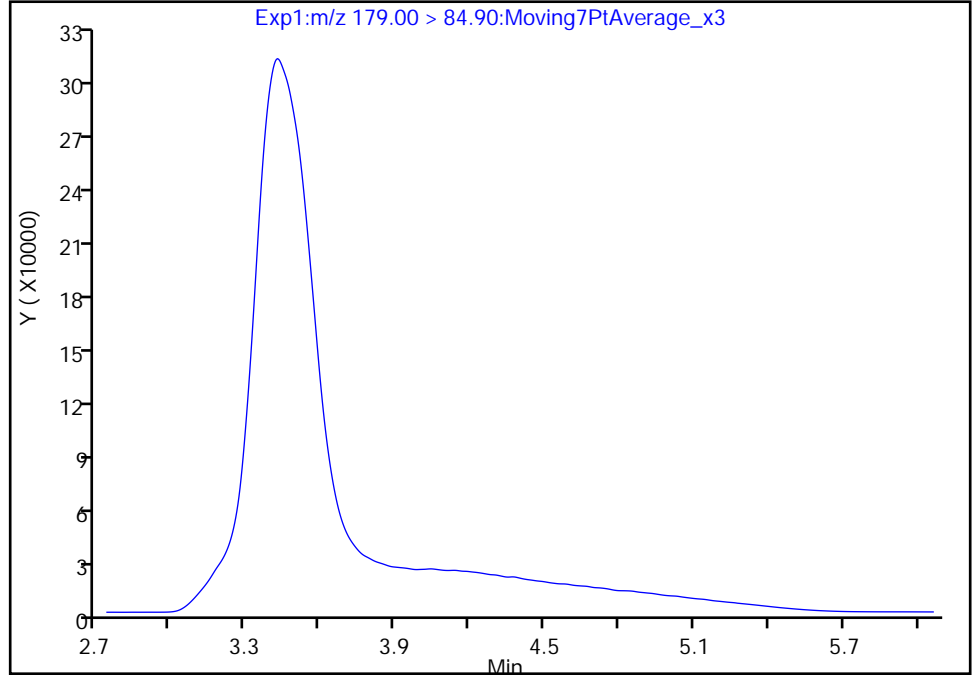
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_027.d  
Injection Date: 25-Feb-2021 19:00:53 Instrument ID: A10  
Lims ID: 320-70306-A-4-A Lab Sample ID: 320-70306-4  
Client ID: SEEP-C-RAIN-INFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 26  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

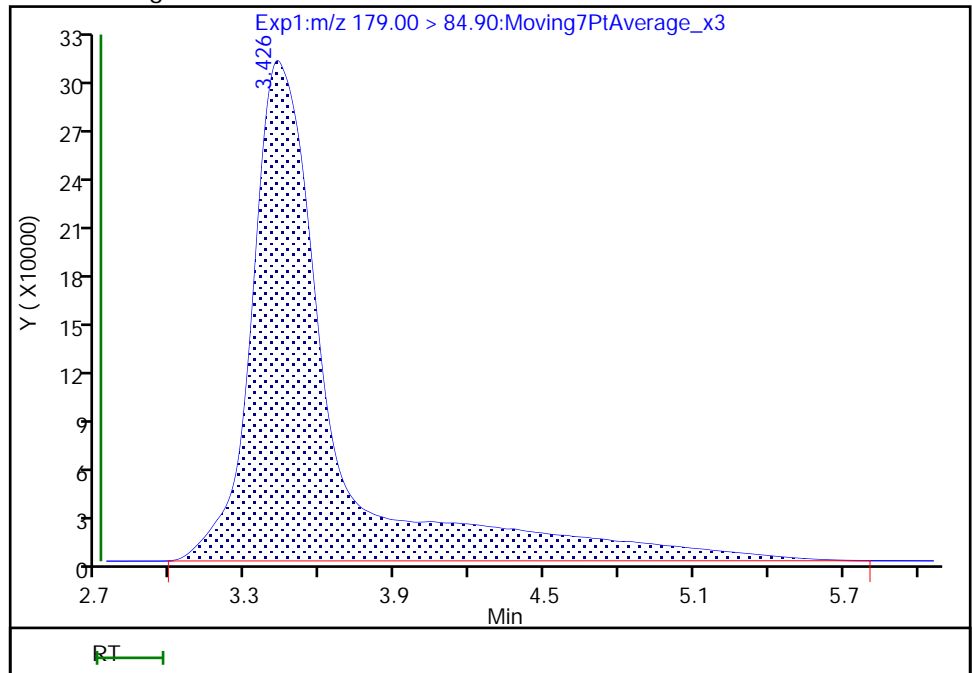
Not Detected  
Expected RT: 2.72

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 6912379  
Amount: 0.690398  
Amount Units: ng/ml



Reviewer: dadunj, 26-Feb-2021 10:35:21  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

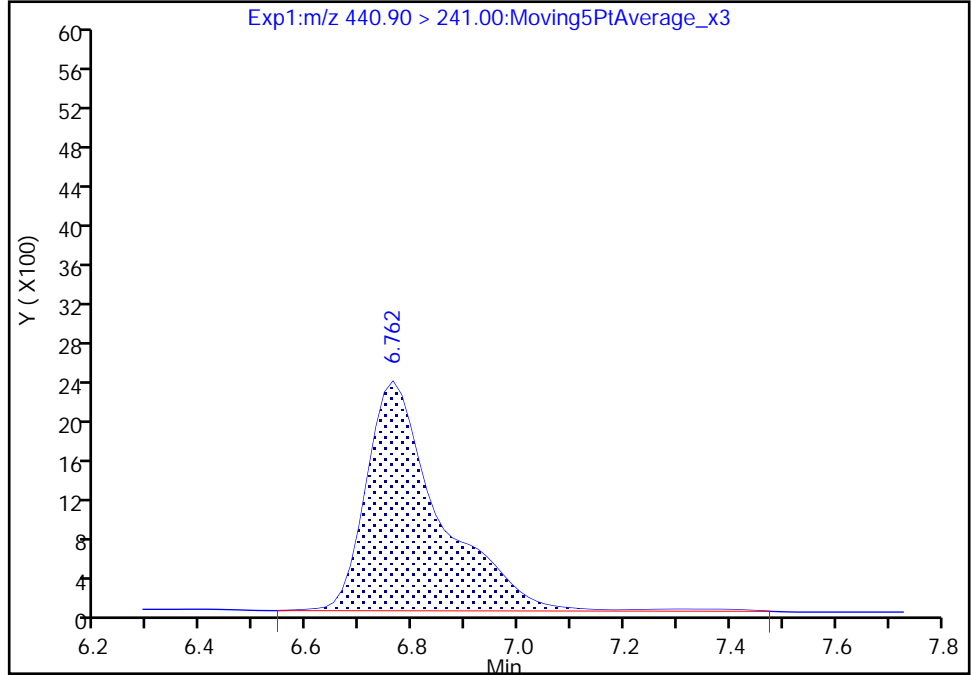
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_027.d  
Injection Date: 25-Feb-2021 19:00:53 Instrument ID: A10  
Lims ID: 320-70306-A-4-A Lab Sample ID: 320-70306-4  
Client ID: SEEP-C-RAIN-INFLUENT-24-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 26  
Injection Vol: 500.0 ul Dil. Factor: 50.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

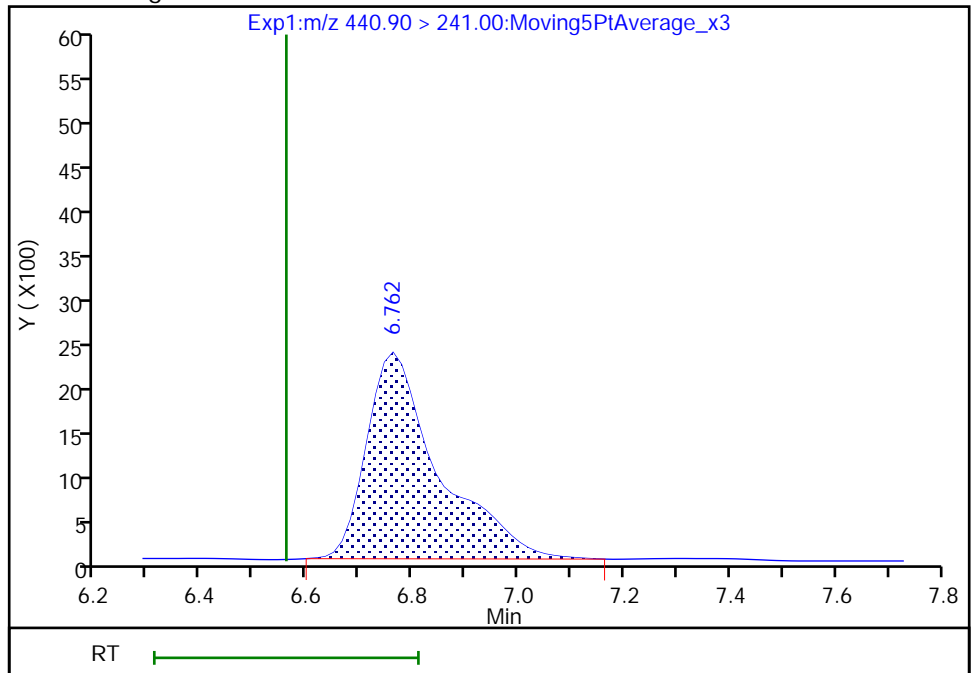
RT: 6.76  
Area: 22543  
Amount: 0.008300  
Amount Units: ng/ml

Processing Integration Results



RT: 6.76  
Area: 21892  
Amount: 0.008060  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 10:35:28  
Audit Action: Manually Integrated

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-EQBLK-ISCO-021321 Lab Sample ID: 320-70306-5  
 Matrix: Water Lab File ID: 2021.02.23\_A10\_TB3+\_B\_021.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/13/2021 16:05  
 Extraction Method: PFAS Prep Date Extracted: 02/22/2021 11:40  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 02/24/2021 05:19  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 464205 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_021.d  
 Lims ID: 320-70306-A-5-A  
 Client ID: SEEP-C-EQBLK-ISCO-021321  
 Sample Type: Client  
 Inject. Date: 24-Feb-2021 05:19:04 ALS Bottle#: 21 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70306-a-5-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:43:59 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:44:12  
 Ratio Calibration: Initial Calibration Level: 6

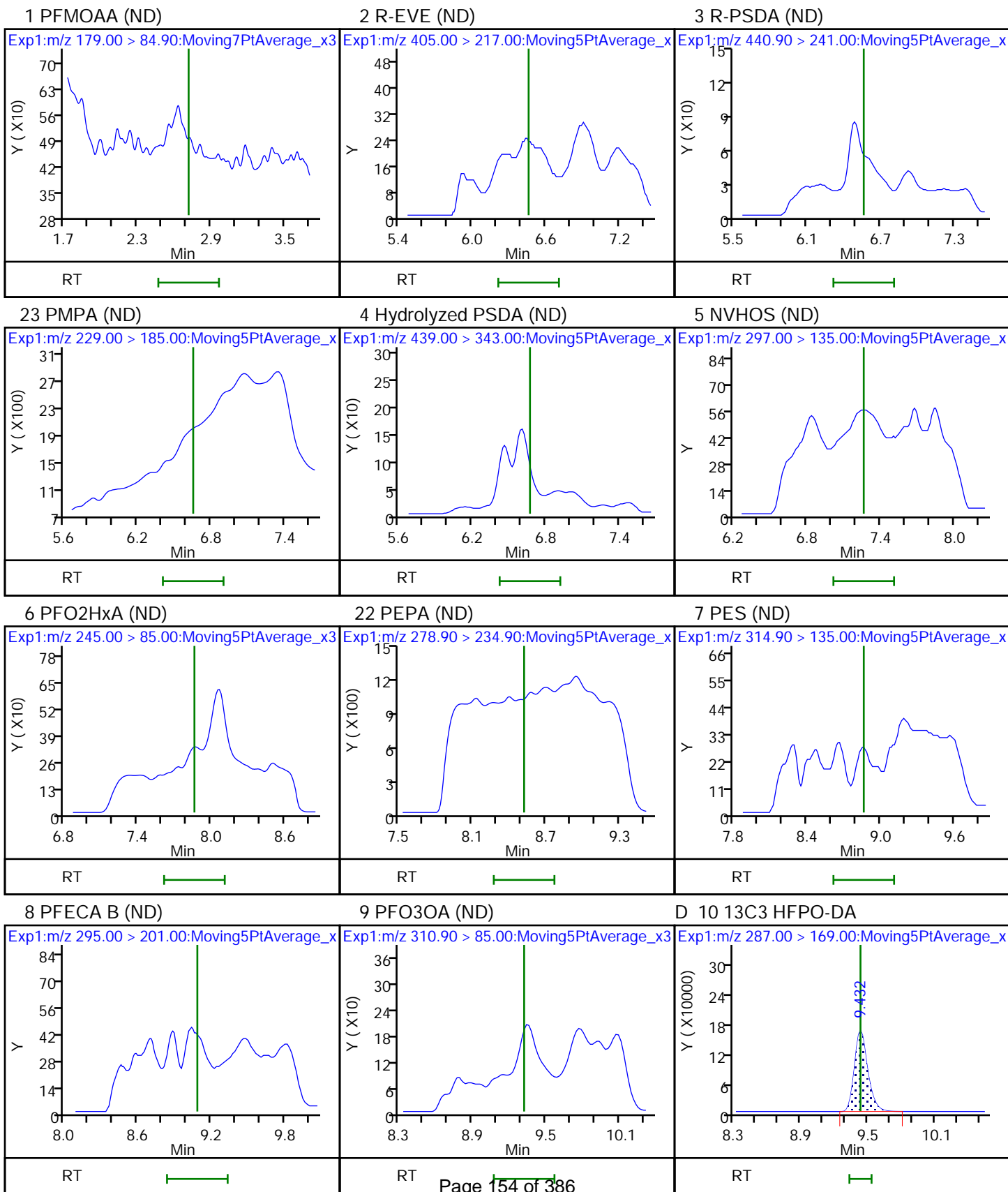
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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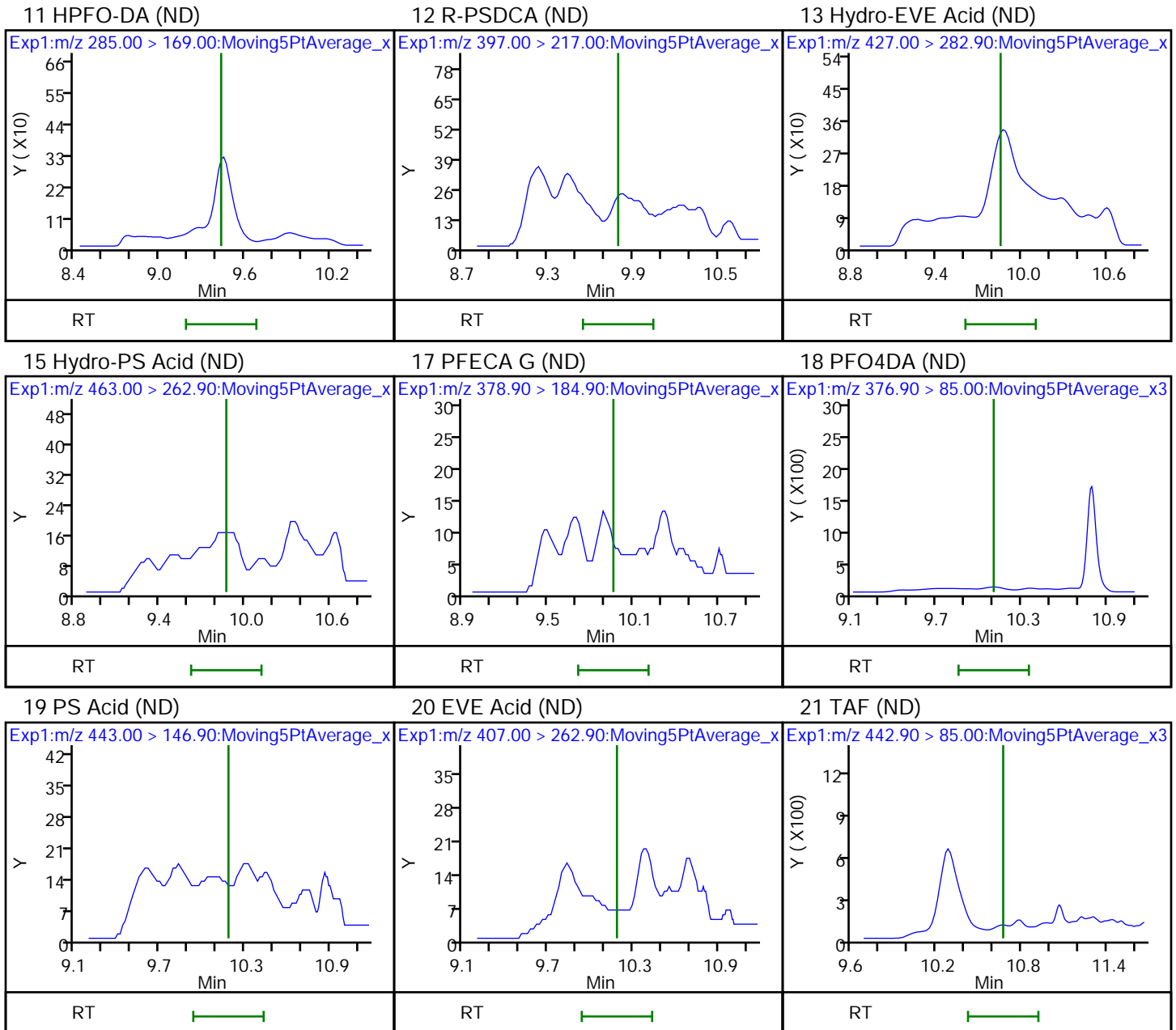
D 10 13C3 HFPO-DA  
 287.00 > 169.00 9.432 9.432 0.0 1341828 0.2425 97.0 53844

**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_021.d  
Injection Date: 24-Feb-2021 05:19:04 Instrument ID: A10  
Lims ID: 320-70306-A-5-A Lab Sample ID: 320-70306-5  
Client ID: SEEP-C-EQBLK-ISCO-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 21 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL





FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-021321 Lab Sample ID: 320-70306-6  
 Matrix: Water Lab File ID: 2021.02.23\_A10\_TB3+\_B\_022.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/13/2021 16:10  
 Extraction Method: PFAS Prep Date Extracted: 02/22/2021 11:40  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 02/24/2021 05:36  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 464205 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	97		25-150



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_022.d  
 Lims ID: 320-70306-A-6-A  
 Client ID: SEEP-C-FBLK-012921  
 Sample Type: Client  
 Inject. Date: 24-Feb-2021 05:36:31 ALS Bottle#: 22 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70306-a-6-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:43:59 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:44:25  
 Ratio Calibration: Initial Calibration Level: 6

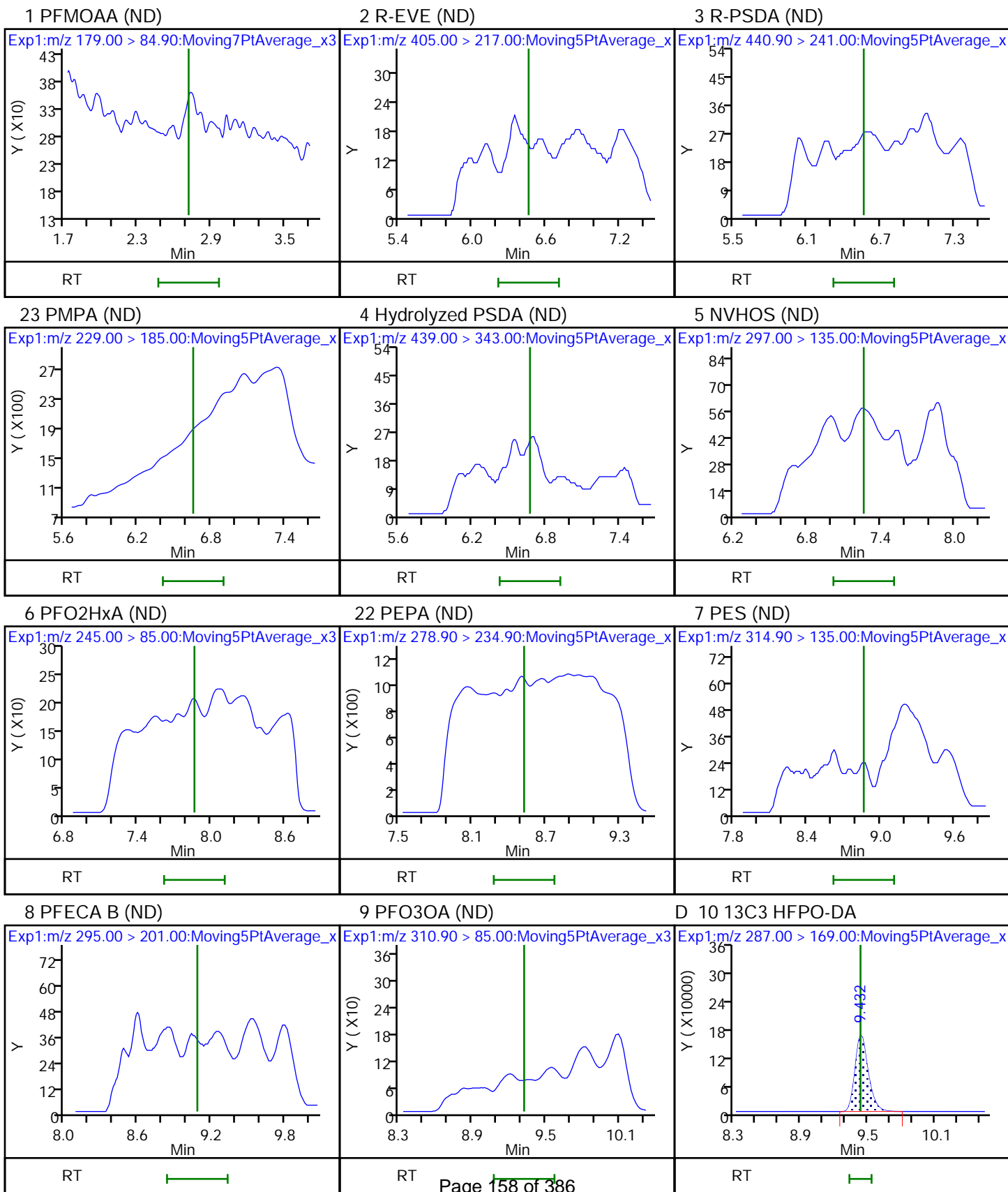
Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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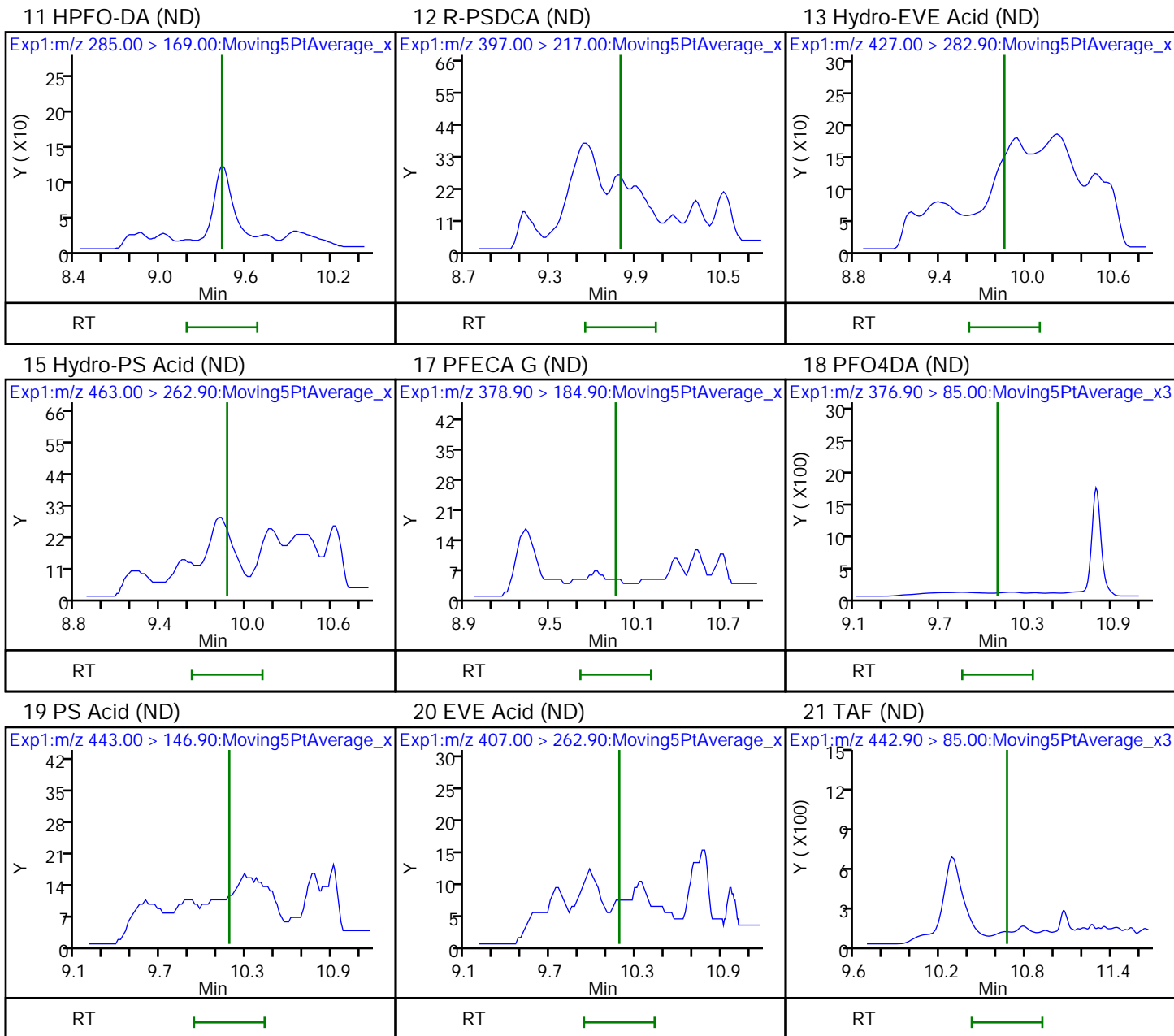
D 10 13C3 HFPO-DA  
 287.00 > 169.00 9.432 9.432 0.0 1337265 0.2417 96.7 53972

**QC Flag Legend**  
 Processing Flags

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_022.d  
Injection Date: 24-Feb-2021 05:36:31 Instrument ID: A10  
Lims ID: 320-70306-A-6-A Lab Sample ID: 320-70306-6  
Client ID: SEEP-C-FBLK-012921  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 22 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_023.d  
 Lims ID: 320-70306-A-7-A  
 Client ID: SEEP-C-RAIN-EQBLK-ISCO-021321  
 Sample Type: Client  
 Inject. Date: 24-Feb-2021 05:53:58 ALS Bottle#: 23 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70306-a-7-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:44:51 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:44:51  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 NVHOS										M
297.00 > 135.00	7.102	7.260	-0.158		711	0.00009274			11.0	M
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1204424	0.2177		87.1	50097	

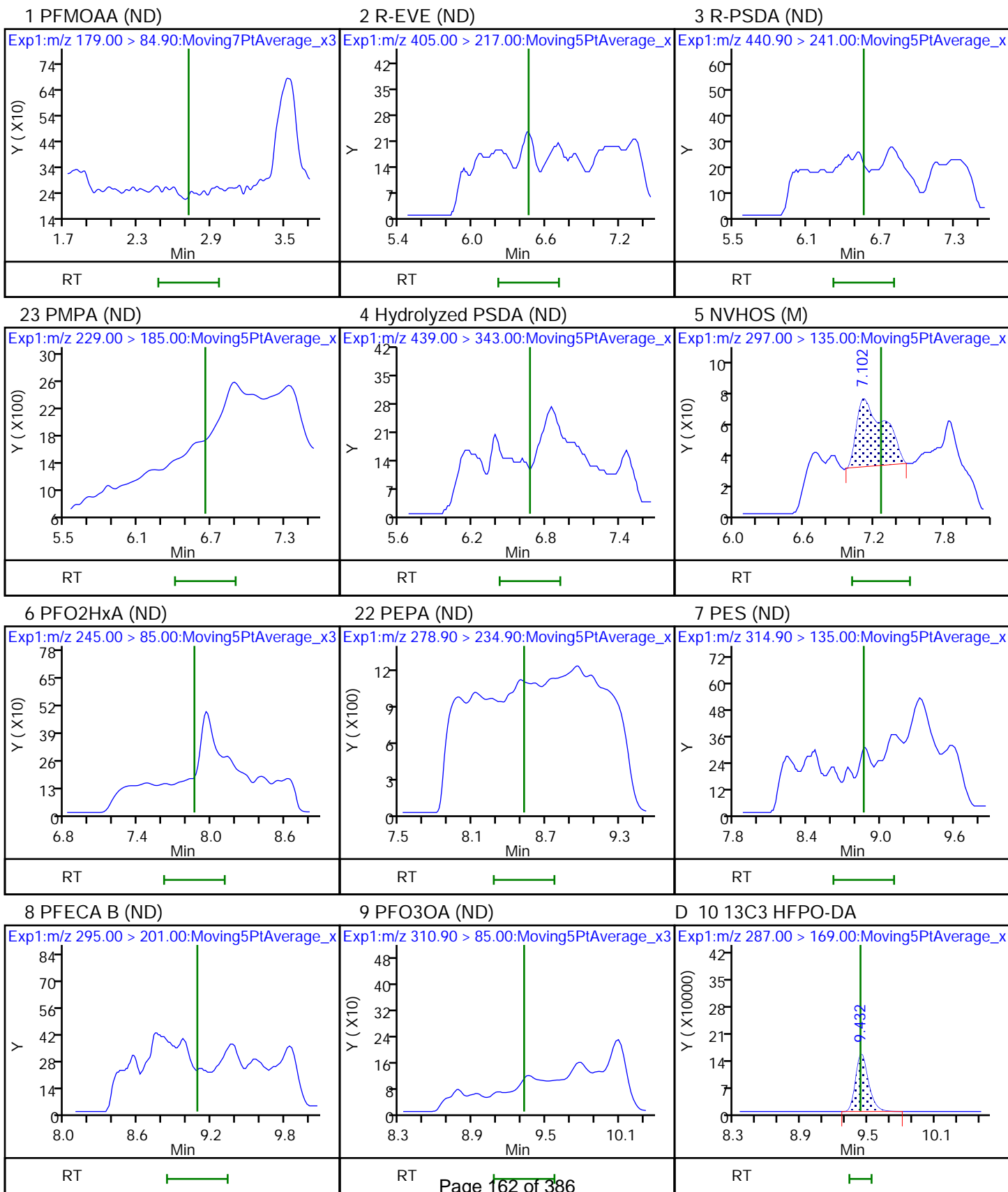
**QC Flag Legend**

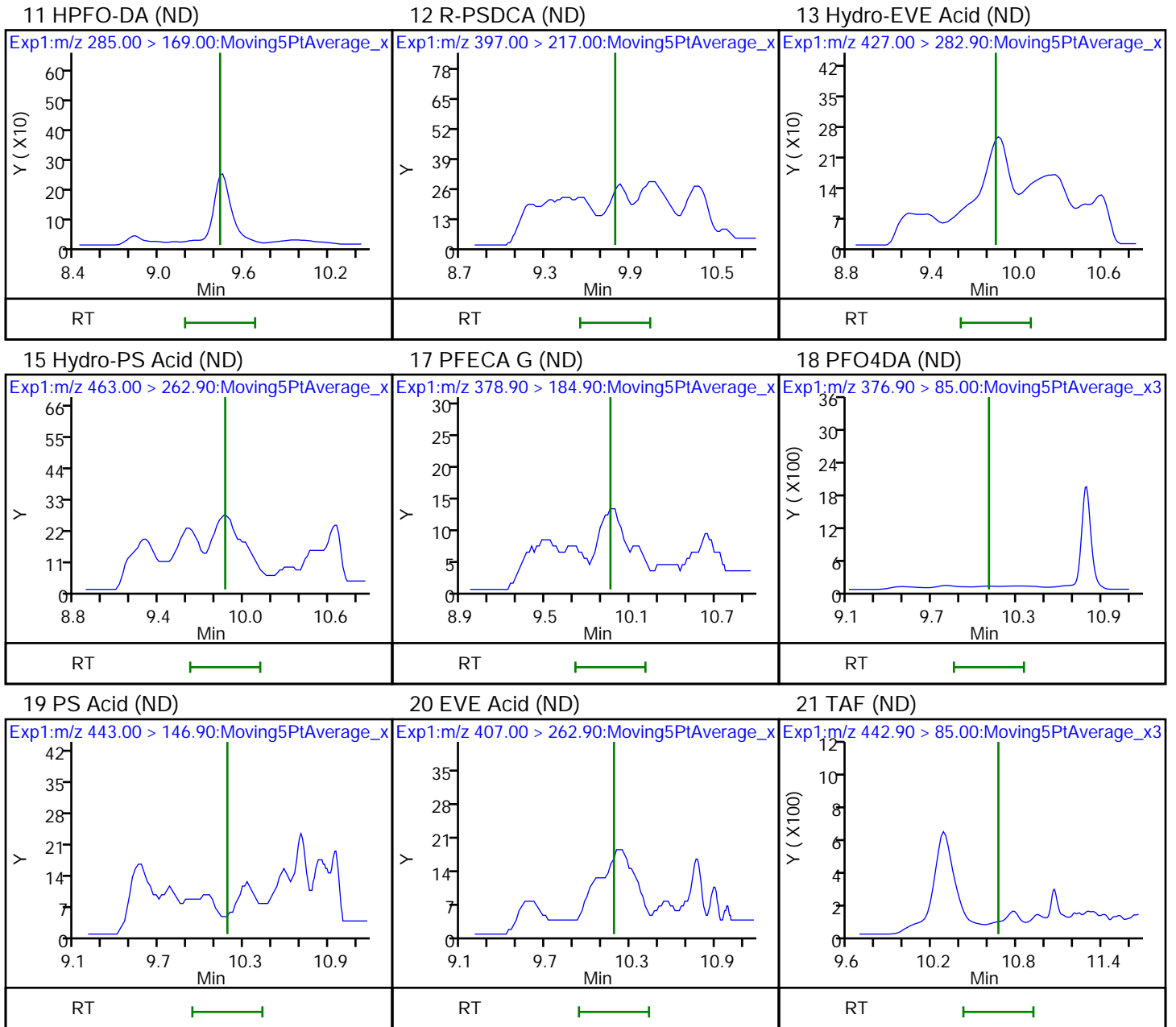
Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_023.d  
Injection Date: 24-Feb-2021 05:53:58 Instrument ID: A10  
Lims ID: 320-70306-A-7-A Lab Sample ID: 320-70306-7  
Client ID: SEEP-C-RAIN-EQBLK-ISCO-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 23 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL





Eurofins TestAmerica, Sacramento

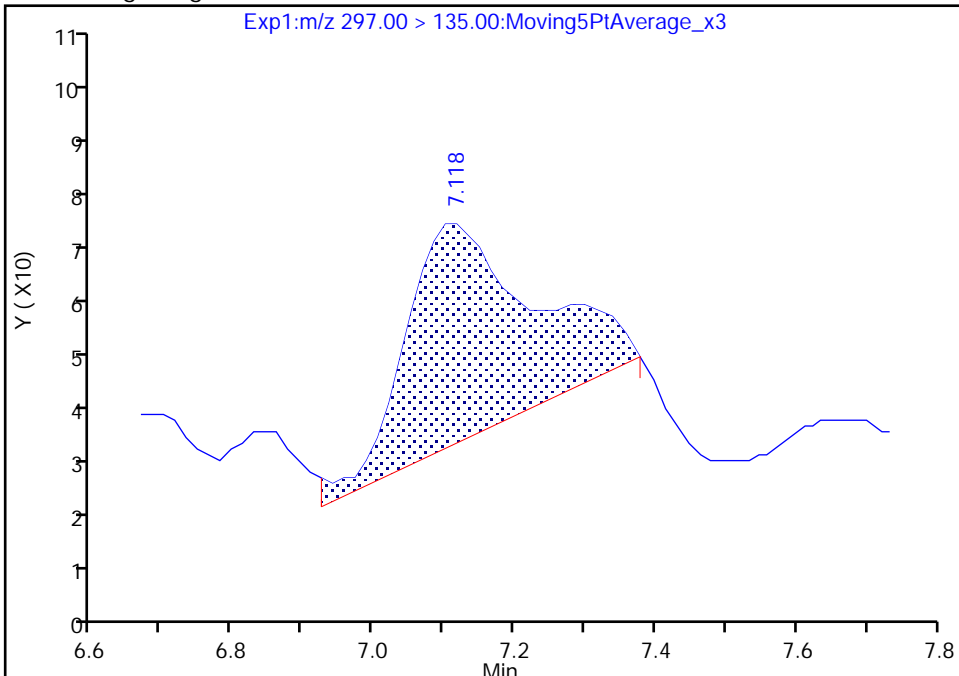
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_023.d  
Injection Date: 24-Feb-2021 05:53:58 Instrument ID: A10  
Lims ID: 320-70306-A-7-A Lab Sample ID: 320-70306-7  
Client ID: SEEP-C-RAIN-EQBLK-ISCO-021321  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 23 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

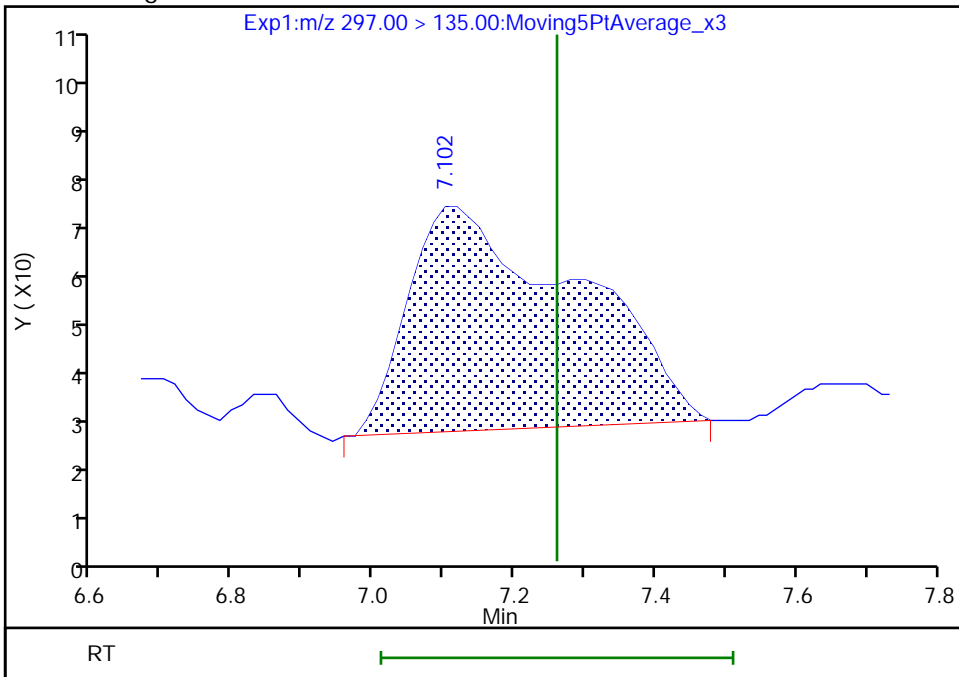
RT: 7.12  
Area: 477  
Amount: 0.000062  
Amount Units: ng/ml

Processing Integration Results



RT: 7.10  
Area: 711  
Amount: 0.000093  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:44:40  
Audit Action: Manually Integrated



FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463725/2	2021.02.20_A10_TB3+_ICAL_002.d
Level 2	IC 320-463725/3	2021.02.20_A10_TB3+_ICAL_003.d
Level 3	IC 320-463725/4	2021.02.20_A10_TB3+_ICAL_004.d
Level 4	IC 320-463725/5	2021.02.20_A10_TB3+_ICAL_005.d
Level 5	IC 320-463725/6	2021.02.20_A10_TB3+_ICAL_006.d
Level 6	IC 320-463725/7	2021.02.20_A10_TB3+_ICAL_007.d
Level 7	IC 320-463725/9	2021.02.20_A10_TB3+_ICAL_009.d
Level 8	IC 320-463725/11	2021.02.20_A10_TB3+_ICAL_011.d
Level 9	IC 320-463725/13	2021.02.20_A10_TB3+_ICAL_013.d
Level 10	IC 320-463725/14	2021.02.20_A10_TB3+_ICAL_014.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	RT WINDOW	AVG RT
PFMOAA	2.875	2.892	3.004	3.060	2.828	2.958	2.858	2.832	2.884	3.026	2.625 - 3.125	2.922
R-EVE	6.560	6.574	6.621	6.653	6.535	6.602	6.535	6.535	6.561	6.617	6.310 - 6.810	6.579
R-PSDA	6.653	6.670	6.701	6.733	6.621	6.683	6.637	6.621	6.653	6.697	6.403 - 6.903	6.667
PMPA	++++	6.750	6.781	6.797	6.717	6.747	6.733	6.717	6.734	6.777	6.515 - 7.015	6.750
Hydrolyzed PSDA	6.749	6.750	6.797	6.813	6.717	6.779	6.733	6.717	6.750	6.793	6.499 - 6.999	6.760
NVHOS	7.319	7.320	7.339	7.358	7.299	7.317	7.300	7.300	7.319	7.335	7.069 - 7.569	7.321
PFO2HxA	7.932	7.919	7.946	7.945	7.904	7.915	7.905	7.905	7.905	7.913	7.682 - 8.182	7.919
PEPA	8.584	8.574	8.577	8.583	8.557	8.566	8.563	8.552	8.572	8.568	8.334 - 8.834	8.570
PES	8.908	8.897	8.904	8.903	8.893	8.892	8.881	8.880	8.893	8.881	8.658 - 9.158	8.893
PFECA B	9.139	9.127	9.122	9.133	9.110	9.121	9.110	9.109	9.110	9.110	8.889 - 9.389	9.119
PFO3OA	9.396	9.380	9.371	9.366	9.352	9.368	9.352	9.352	9.352	9.353	9.146 - 9.646	9.364
HFPO-DA	9.486	9.486	9.476	9.475	9.459	9.477	9.459	9.464	9.467	9.450	9.236 - 9.736	9.470
R-PSDCA	9.847	9.848	9.838	9.836	9.823	9.823	9.823	9.829	9.815	++++	9.597 - 10.097	9.831
Perfluoroheptanoic acid	9.904	9.905	9.895	9.893	9.881	9.880	9.881	9.867	9.872	9.873	9.654 - 10.154	9.885
Hydro-EVE Acid	9.904	9.905	9.895	9.893	9.881	9.880	9.881	9.886	9.872	++++	9.654 - 10.154	9.889
Hydro-PS Acid	9.939	9.922	9.931	9.929	9.919	9.918	9.900	9.905	9.911	9.892	9.689 - 10.189	9.917
PFECA G	10.034	10.013	10.000	10.020	9.988	9.987	9.986	9.993	9.999	++++	9.784 - 10.284	10.002
PFO4DA	10.161	10.162	10.151	10.149	10.138	10.138	10.137	10.144	10.128	10.128	9.911 - 10.411	10.144
PS Acid	10.242	10.222	10.231	10.230	10.220	10.220	10.198	10.204	10.211	10.190	9.992 - 10.492	10.217
EVE Acid	10.260	10.242	10.231	10.230	10.220	10.220	10.219	10.224	10.211	++++	10.010 - 10.510	10.229
PFO5DA	10.745	10.734	10.729	10.729	10.717	10.707	10.709	10.700	10.707	++++	10.495 - 10.995	10.720
13C3 HFPO-DA	9.486	9.486	9.476	9.475	9.459	9.459	9.459	9.464	9.467	9.450	9.386 - 9.586	9.468
13C4 PFHpA	9.904	9.905	9.895	9.893	9.881	9.880	9.881	9.867	9.872	9.873	9.804 - 10.004	9.885

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463725/2	2021.02.20_A10_TB3+_ICAL_002.d
Level 2	IC 320-463725/3	2021.02.20_A10_TB3+_ICAL_003.d
Level 3	IC 320-463725/4	2021.02.20_A10_TB3+_ICAL_004.d
Level 4	IC 320-463725/5	2021.02.20_A10_TB3+_ICAL_005.d
Level 5	IC 320-463725/6	2021.02.20_A10_TB3+_ICAL_006.d
Level 6	IC 320-463725/7	2021.02.20_A10_TB3+_ICAL_007.d
Level 7	IC 320-463725/9	2021.02.20_A10_TB3+_ICAL_009.d
Level 8	IC 320-463725/11	2021.02.20_A10_TB3+_ICAL_011.d
Level 9	IC 320-463725/13	2021.02.20_A10_TB3+_ICAL_013.d
Level 10	IC 320-463725/14	2021.02.20_A10_TB3+_ICAL_014.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	8669000 10756640 10614736	9158000 9634560 10425782	9111400 10401270	10187600 11162636	Ave		10012162.4			8.2		50.0				
R-EVE	3909000 4261000 4336490	4068000 3699840 4342016	3809600 4152360	4091500 4468592	Ave		4113839.80			6.1		50.0				
R-PSDA	2728000 2672640 2792098	2655600 2420260 2992445	2571000 2631610	2849800 2847912	Ave		2716136.50			6.0		50.0				
PMPA	++++ 1415360 12281740	23542400 12048600 12257867	17876400 12485340	15846600 13242548	Lin2	27942.5183	12447279.8			4.6			0.9980		0.9900	
Hydrolyzed PSDA	7023000 8172400 8284182	7884400 7098780 8192250	7962800 7752270	8403400 8644836	Ave		7941831.80			6.7		50.0				
NVHOS	7358000 7960800 7756316	7576400 7135460 7739869	7668800 7645830	7634400 8186532	Ave		7666240.70			3.8		50.0				
PFO2HxA	8834000 9762200 9484988	9507200 8628240 9188527	9372800 9369640	9896100 9867480	Ave		9391117.50			4.5		50.0				
PEPA	4097000 5990520 5574350	5606400 5388360 5634472	5631200 5738860	5903300 6354288	Ave		5591875.00			10.6		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	45461000 48415400 49003488	45790800 43420840 46061829	46045000 46818260	47394300 51207964	Ave		46961888.1			4.6		50.0				
PFECA B	6266000 6980880 6219438	6338800 6233260 6030771	6425000 6489720	7017200 6910464	Ave		6491153.30			5.4		50.0				
PFO3OA	6555000 6183760 5510656	6603600 5567280 5215960	6020600 5760110	6556200 5959720	Ave		5993288.60			8.1		50.0				
R-PSDCA	62820000 68085040 54950836	65104800 58427020 +++++	63307600 63609540	64346000 65116800	Ave		62863070.7			6.2		50.0				
Hydro-EVE Acid	77876000 84637520 71287774	80908800 74457340 +++++	79831000 79723000	81372600 80568812	Ave		78962538.4			5.0		50.0				
Hydro-PS Acid	24096000 27175720 24958216	25222400 24476160 22932681	24998000 26791150	26287900 27150848	Ave		25408907.5			5.6		50.0				
PFECA G	8436000 10189280 9641060	8194400 8943100 +++++	9014400 10006980	9565700 10552100	Ave		9393668.89			8.5		50.0				
PFO4DA	5293000 5616400 4533726	5401200 4948780 4535169	5281200 5179690	5240800 5554868	Ave		5158483.30			7.3		50.0				
PS Acid	11172000 12393320 10900240	11319200 11143640 9513361	11436800 12101570	11898000 12429436	Ave		11430756.7			7.6		50.0				
EVE Acid	45674000 48935000 38153284	46216400 43354580 +++++	46970800 45357810	46853600 45033320	Ave		45172088.2			6.7		50.0				
PFO5DA	3473000 4074360 3239086	3405200 3732040 +++++	4015800 3877300	4089300 3834256	Ave		3748926.89			8.3		50.0				
13C3 HFPO-DA	5147896 5670128 5565916	5591688 5267304 5487972	5538980 5408528	5785000 5858496	Ave		5532190.80			3.9		50.0				
13C4 PFHpA	26622980 26669364 22923488	26633644 25152868 21514728	26276812 25847808	26772548 25653844	Ave		25406808.4			7.0		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725  
 SDG No.: \_\_\_\_\_  
 Instrument ID: A10 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N  
 Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	1.2234	1.1382	1.0346	1.0831	1.0966	AveID		1.0887			5.4		35.0				
Perfluoroheptanoic acid	1.0520	1.0913	1.0960	1.0508	1.0209	L2ID	0.0005	1.0530			3.9		0.9980			0.9900	
	1.5159	1.2361	1.1156	1.1344	1.0921												
	1.0273	1.0448	1.1050	1.0966	0.9806												

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463725/2	2021.02.20_A10_TB3+_ICAL_002.d
Level 2	IC 320-463725/3	2021.02.20_A10_TB3+_ICAL_003.d
Level 3	IC 320-463725/4	2021.02.20_A10_TB3+_ICAL_004.d
Level 4	IC 320-463725/5	2021.02.20_A10_TB3+_ICAL_005.d
Level 5	IC 320-463725/6	2021.02.20_A10_TB3+_ICAL_006.d
Level 6	IC 320-463725/7	2021.02.20_A10_TB3+_ICAL_007.d
Level 7	IC 320-463725/9	2021.02.20_A10_TB3+_ICAL_009.d
Level 8	IC 320-463725/11	2021.02.20_A10_TB3+_ICAL_011.d
Level 9	IC 320-463725/13	2021.02.20_A10_TB3+_ICAL_013.d
Level 10	IC 320-463725/14	2021.02.20_A10_TB3+_ICAL_014.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	8669	22895	45557	101876	268916	0.00100	0.00250	0.00500	0.0100	0.0250
		481728	1040127	2790659	5307368	10425782	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	3909	10170	19048	40915	106525	0.00100	0.00250	0.00500	0.0100	0.0250
		184992	415236	1117148	2168245	4342016	0.0500	0.100	0.250	0.500	1.00
R-PSDA	Ave	2728	6639	12855	28498	66816	0.00100	0.00250	0.00500	0.0100	0.0250
		121013	263161	711978	1396049	2992445	0.0500	0.100	0.250	0.500	1.00
PMPA	Lin2	++++	58856	89382	158466	353884	++++	0.00250	0.00500	0.0100	0.0250
		602430	1248534	3310637	6140870	12257867	0.0500	0.100	0.250	0.500	1.00
Hydrolyzed PSDA	Ave	7023	19711	39814	84034	204310	0.00100	0.00250	0.00500	0.0100	0.0250
		354939	775227	2161209	4142091	8192250	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	7358	18941	38344	76344	199020	0.00100	0.00250	0.00500	0.0100	0.0250
		356773	764583	2046633	3878158	7739869	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	8834	23768	46864	98961	244055	0.00100	0.00250	0.00500	0.0100	0.0250
		431412	936964	2466870	4742494	9188527	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	4097	14016	28156	59033	149763	0.00100	0.00250	0.00500	0.0100	0.0250
		269418	573886	1588572	2787175	5634472	0.0500	0.100	0.250	0.500	1.00
PES	Ave	45461	114477	230225	473943	1210385	0.00100	0.00250	0.00500	0.0100	0.0250
		2171042	4681826	12801991	24501744	46061829	0.0500	0.100	0.250	0.500	1.00
PFECA B	Ave	6266	15847	32125	70172	174522	0.00100	0.00250	0.00500	0.0100	0.0250
		311663	648972	1727616	3109719	6030771	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	6555	16509	30103	65562	154594	0.00100	0.00250	0.00500	0.0100	0.0250
		278364	576011	1489930	2755328	5215960	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	62820	162762	316538	643460	1702126	0.00100	0.00250	0.00500	0.0100	0.0250
		2921351	6360954	16279200	27475418	++++	0.0500	0.100	0.250	0.500	++++
Hydro-EVE Acid	Ave	77876	202272	399155	813726	2115938	0.00100	0.00250	0.00500	0.0100	0.0250
		3722867	7972300	20142203	35643887	++++	0.0500	0.100	0.250	0.500	++++
Hydro-PS Acid	Ave	24096	63056	124990	262879	679393	0.00100	0.00250	0.00500	0.0100	0.0250
		1223808	2679115	6787712	12479108	22932681	0.0500	0.100	0.250	0.500	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFECA G	Ave	8436 447155	20486 1000698	45072 2638025	95657 4820530	254732 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO4DA	Ave	5293 247439	13503 517969	26406 1388717	52408 2266863	140410 4535169	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
PS Acid	Ave	11172 557182	28298 1210157	57184 3107359	118980 5450120	309833 9513361	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 1.00
EVE Acid	Ave	45674 2167729	115541 4535781	234854 11258330	468536 19076642	1223375 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
PFO5DA	Ave	3473 186602	8513 387730	20079 958564	40893 1619543	101859 ++++	0.00100 0.0500	0.00250 0.100	0.00500 0.250	0.0100 0.500	0.0250 ++++
13C3 HFPO-DA	Ave	1286974 1316826	1397922 1352132	1384745 1464624	1446250 1391479	1417532 1371993	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250
13C4 PFHpA	Ave	6655745 6288217	6658411 6461952	6569203 6413461	6693137 5730872	6667341 5378682	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250	0.250 0.250

Curve Type Legend:

Ave = Average
Lin2 = Linear 1/conc^2

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1 Analy Batch No.: 463725

SDG No.: \_\_\_\_\_

Instrument ID: A10 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 02/20/2021 10:46 Calibration End Date: 02/20/2021 14:15 Calibration ID: 54188

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-463725/2	2021.02.20_A10_TB3+_ICAL_002.d
Level 2	IC 320-463725/3	2021.02.20_A10_TB3+_ICAL_003.d
Level 3	IC 320-463725/4	2021.02.20_A10_TB3+_ICAL_004.d
Level 4	IC 320-463725/5	2021.02.20_A10_TB3+_ICAL_005.d
Level 5	IC 320-463725/6	2021.02.20_A10_TB3+_ICAL_006.d
Level 6	IC 320-463725/7	2021.02.20_A10_TB3+_ICAL_007.d
Level 7	IC 320-463725/9	2021.02.20_A10_TB3+_ICAL_009.d
Level 8	IC 320-463725/11	2021.02.20_A10_TB3+_ICAL_011.d
Level 9	IC 320-463725/13	2021.02.20_A10_TB3+_ICAL_013.d
Level 10	IC 320-463725/14	2021.02.20_A10_TB3+_ICAL_014.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
HFPO-DA		AveID	6298	15911	28654	62660	155445	0.00100	0.00250	0.00500	0.0100	0.0250
			277056	590223	1605227	2924346	5602406	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		L2ID	40357	82305	146570	303706	728172	0.00100	0.00250	0.00500	0.0100	0.0250
			1291921	2700462	7087162	12569308	21096596	0.0500	0.100	0.250	0.500	1.00

Curve Type Legend:

AveID = Average isotope dilution  
 L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 20-Feb-2021 10:46:28 ALS Bottle#: 4 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 1 (56)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:34 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 11:43:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.875	2.875	0.0		8669	0.000866		86.6	2.1	M
2 R-EVE										M
405.00 > 217.00	6.560	6.560	0.0		3909	0.000950		95.0	94.0	M
3 R-PSDA										M
440.90 > 241.00	6.653	6.653	0.0		2728	0.001004		100	58.7	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.749	6.749	0.0		7023	0.000884		88.4	138	M
23 PMPA										M
229.00 > 185.00	6.765	6.765	0.0		37469	0.000765		76.5	8.5	M
5 NVHOS										M
297.00 > 135.00	7.319	7.319	0.0		7358	0.000960		96.0	140	M
6 PFO2HxA										M
245.00 > 85.00	7.932	7.932	0.0		8834	0.000941		94.1	123	M
22 PEPA										
278.90 > 234.90	8.584	8.584	0.0		4097	0.000733		73.3	7.4	
7 PES										
314.90 > 135.00	8.908	8.908	0.0		45461	0.000968		96.8	1612	
8 PFECA B										
295.00 > 201.00	9.139	9.139	0.0		6266	0.000965		96.5	209	
9 PFO3OA										
310.90 > 85.00	9.396	9.396	0.0		6555	0.001094		109	96.4	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.486	9.486	0.0		1286974	0.2326		93.1	50579	
11 HPFO-DA										M
285.00 > 169.00	9.486	9.486	0.0	1.000	6298	0.001124		112	244	M



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.847	9.847	0.0		62820	0.000999		99.9	1976	
13 Hydro-EVE Acid										
427.00 > 282.90	9.904	9.904	0.0		77876	0.000986		98.6	1448	
D 14 13C4 PFHpA										
367.00 > 322.00	9.904	9.904	0.0		6655745	0.2620		105	140233	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.904	9.904	0.0	1.000	40357	0.001002	Target=0.00	100	197	
363.00 > 169.00	9.904	9.904	0.0	1.000	16784		2.40(0.00-0.00)	100	723	
15 Hydro-PS Acid										
463.00 > 262.90	9.939	9.939	0.0		24096	0.000948		94.8	681	
17 PFECA G										
378.90 > 184.90	10.034	10.034	0.0		8436	0.000898		89.8	332	
18 PFO4DA										
376.90 > 85.00	10.161	10.161	0.0		5293	0.001026		103	61.0	
19 PS Acid										
443.00 > 146.90	10.242	10.242	0.0		11172	0.000977		97.7	365	
20 EVE Acid										
407.00 > 262.90	10.260	10.260	0.0		45674	0.001011		101	1967	
21 TAF										
442.90 > 85.00	10.745	10.745	0.0		3473	0.000926		92.6	11.1	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

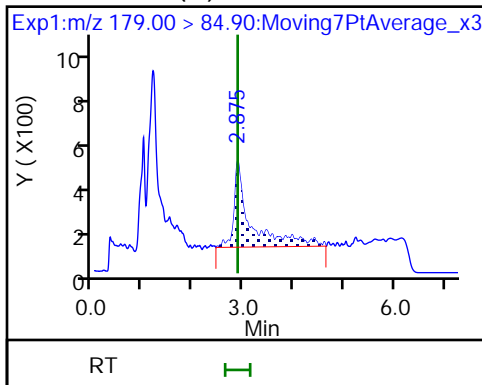
**Reagents:**

LCTB3\_LLSTD1\_00056

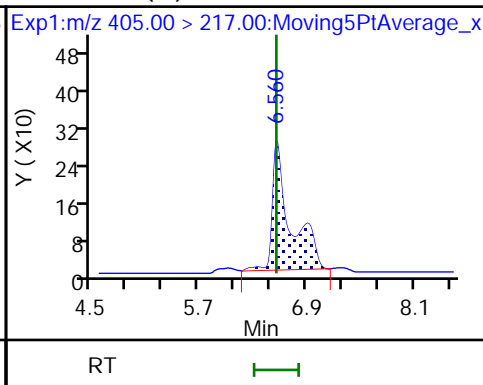
Amount Added: 1.00

Units: mL

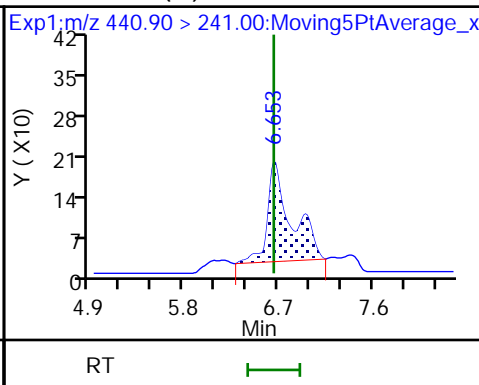
1 PFMOAA (M)



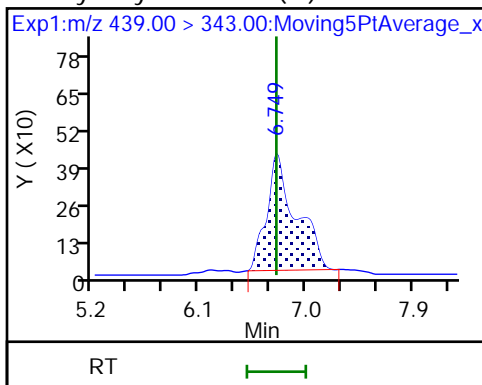
2 R-EVE (M)



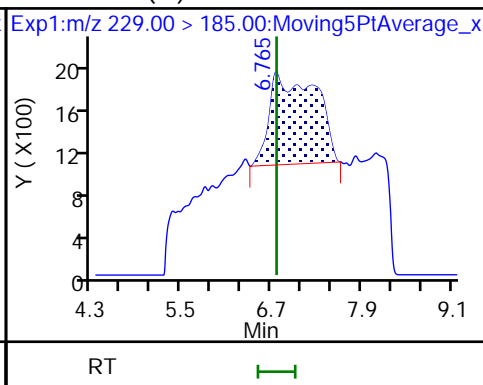
3 R-PSDA (M)



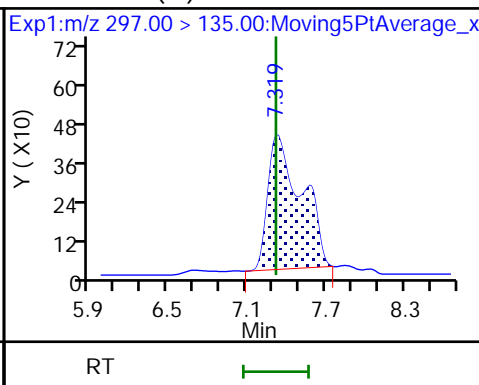
4 Hydrolyzed PSDA (M)



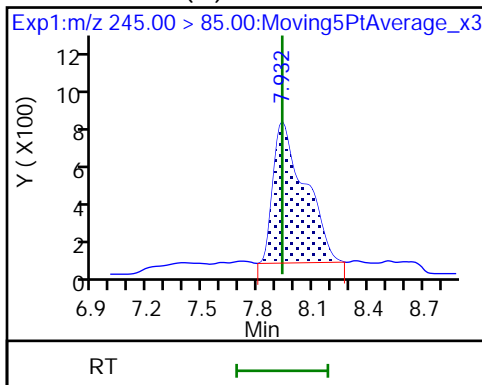
23 PMPA (M)



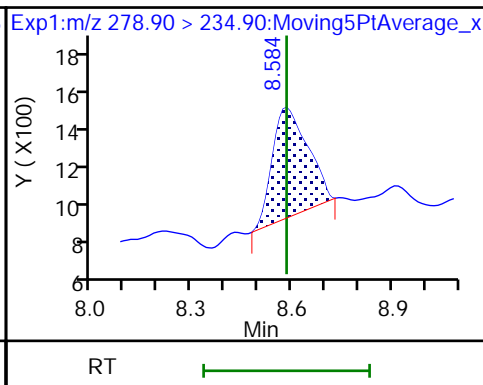
5 NVHOS (M)



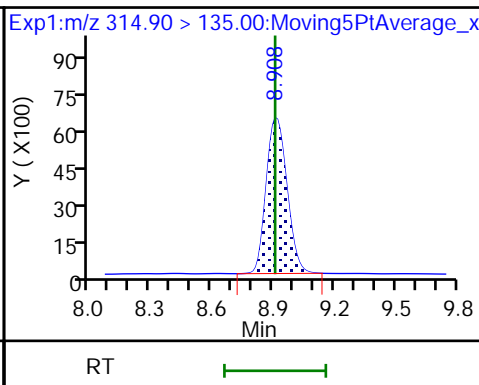
6 PFO2HxA (M)



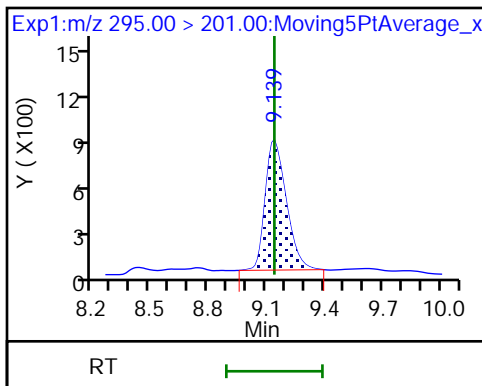
22 PEPA



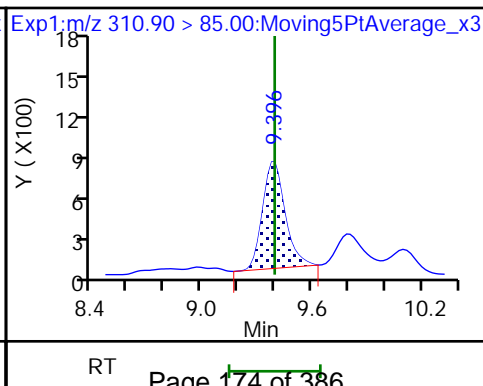
7 PES



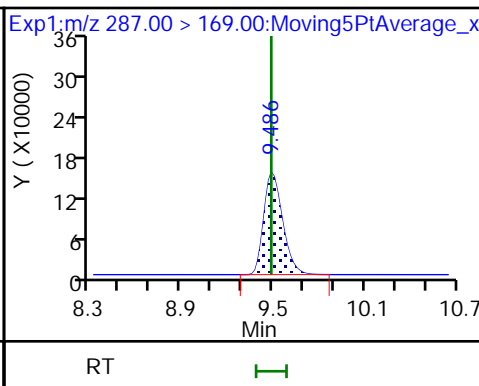
8 PFECA B

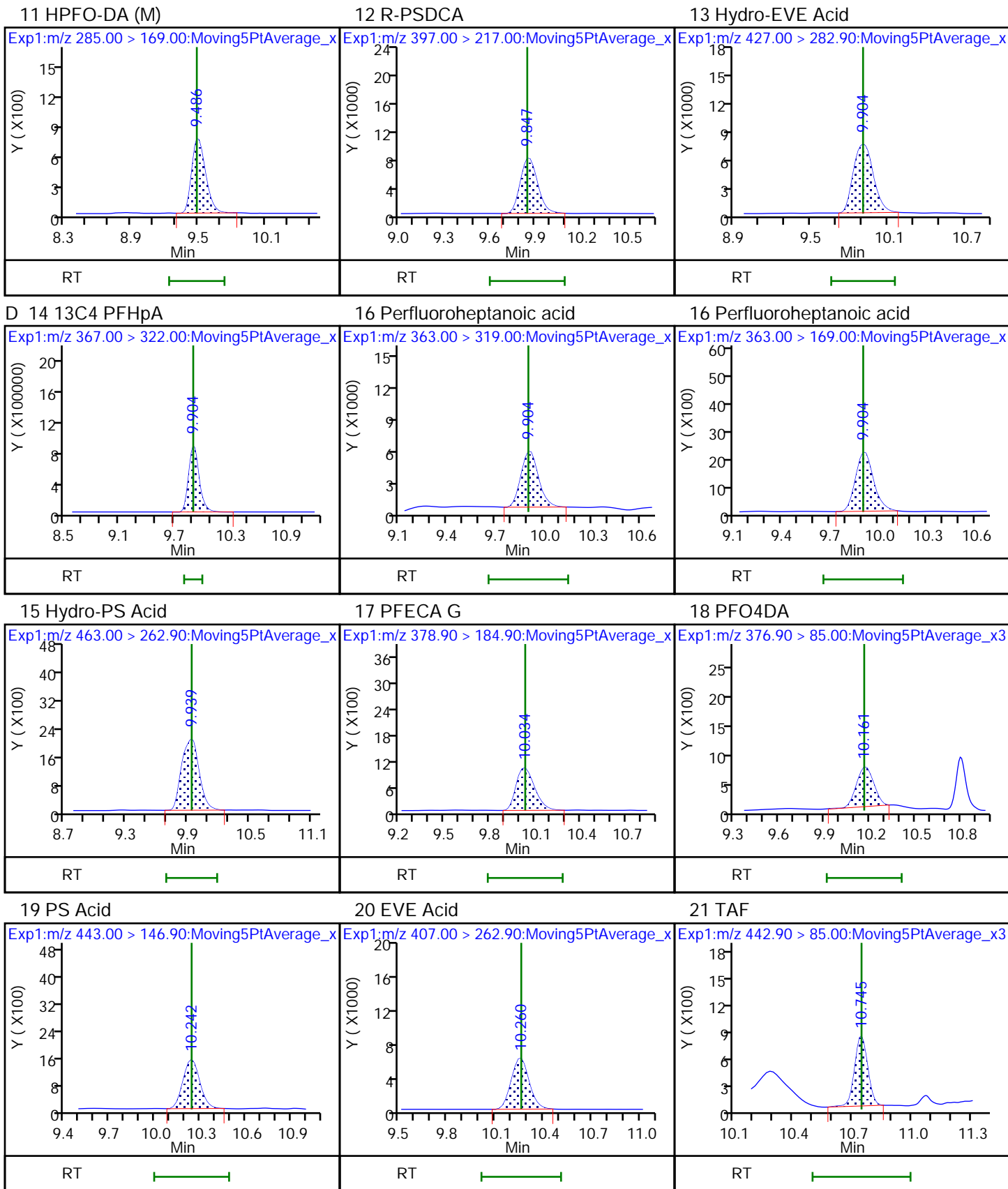


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

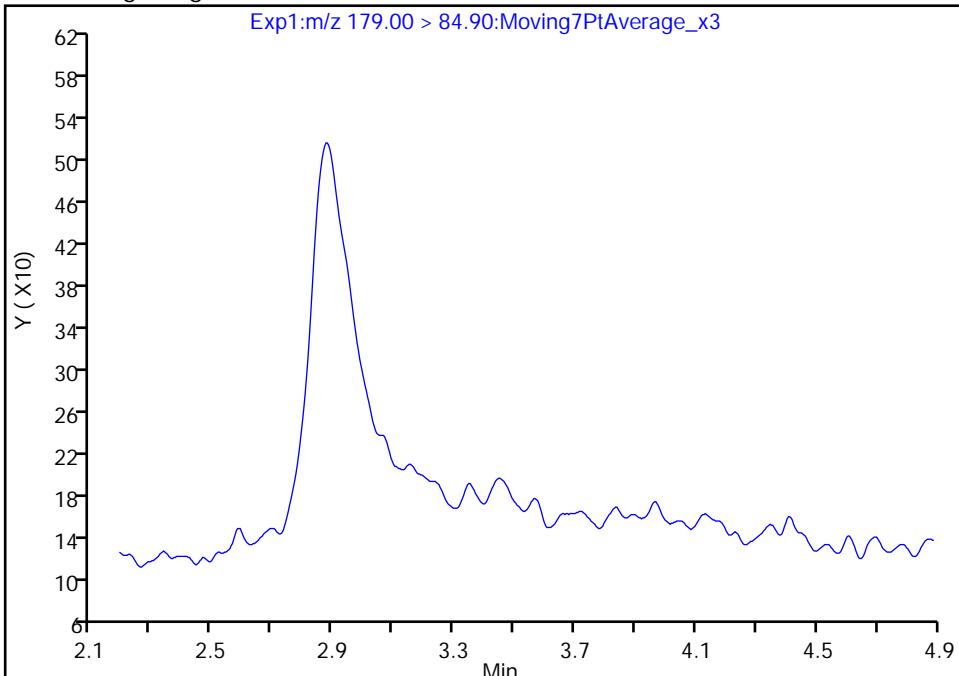
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

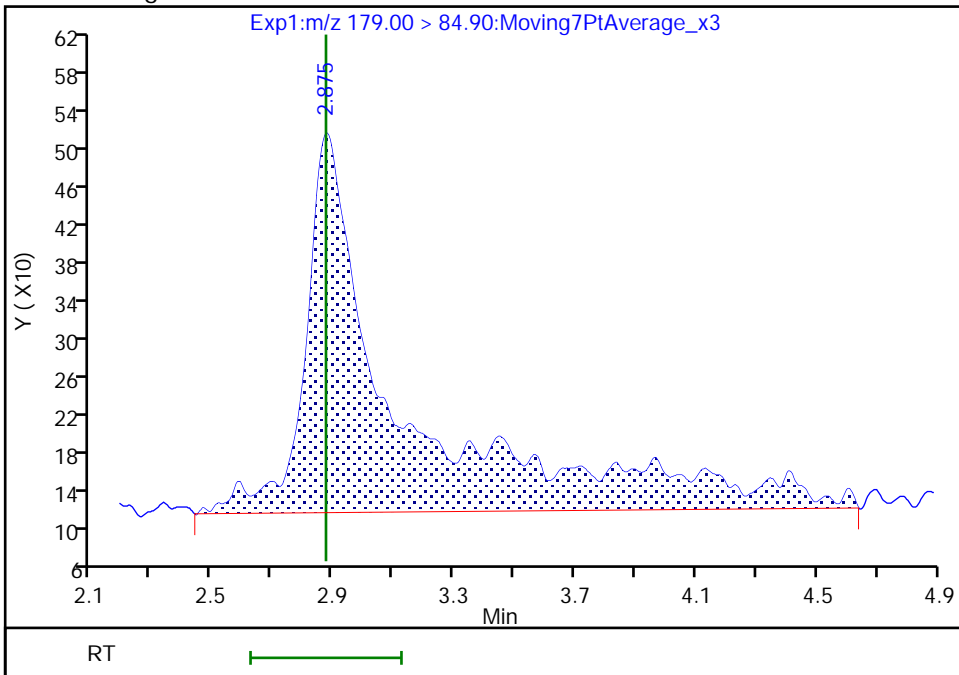
Not Detected  
Expected RT: 2.88

Processing Integration Results



Manual Integration Results

RT: 2.88  
Area: 8669  
Amount: 0.000866  
Amount Units: ng/ml



Reviewer: roycea, 20-Feb-2021 13:26:38  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 177 of 386

Eurofins TestAmerica, Sacramento

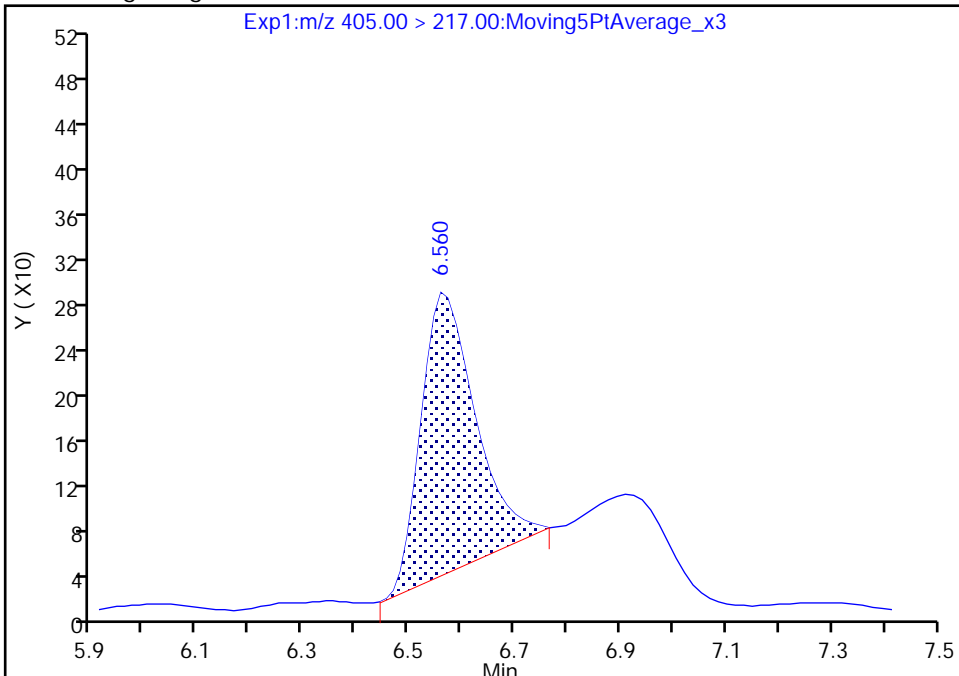
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

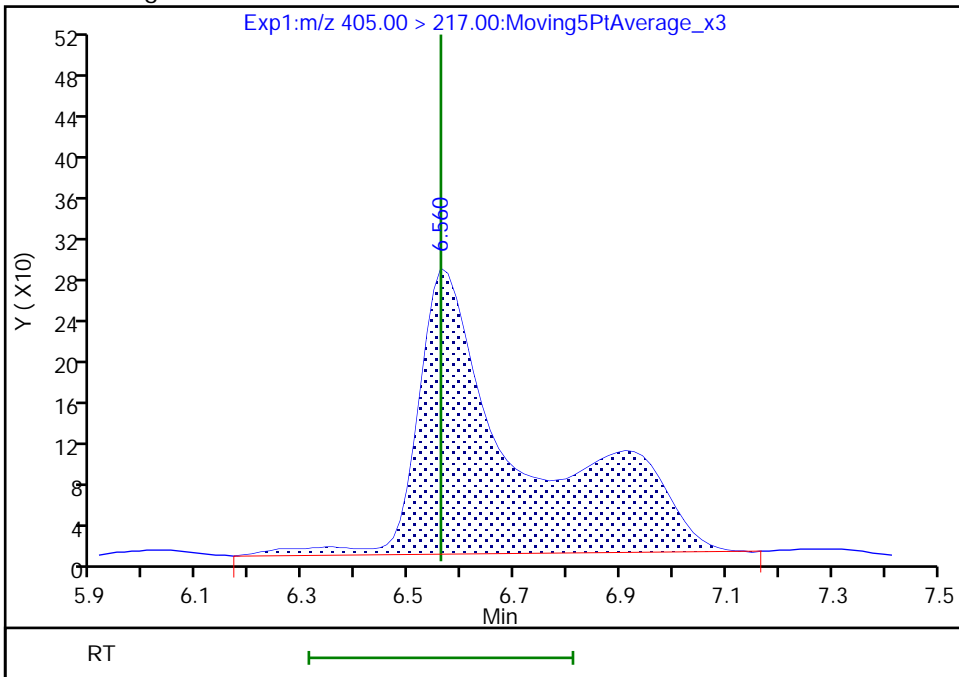
RT: 6.56  
Area: 1799  
Amount: 0.000620  
Amount Units: ng/ml

Processing Integration Results



RT: 6.56  
Area: 3909  
Amount: 0.000950  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:42:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

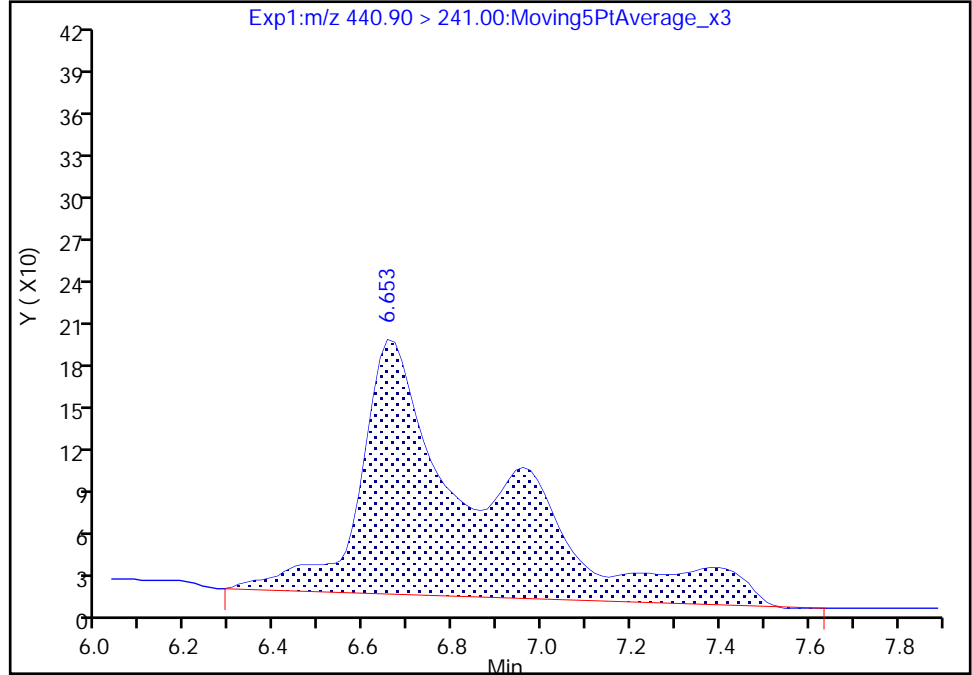
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

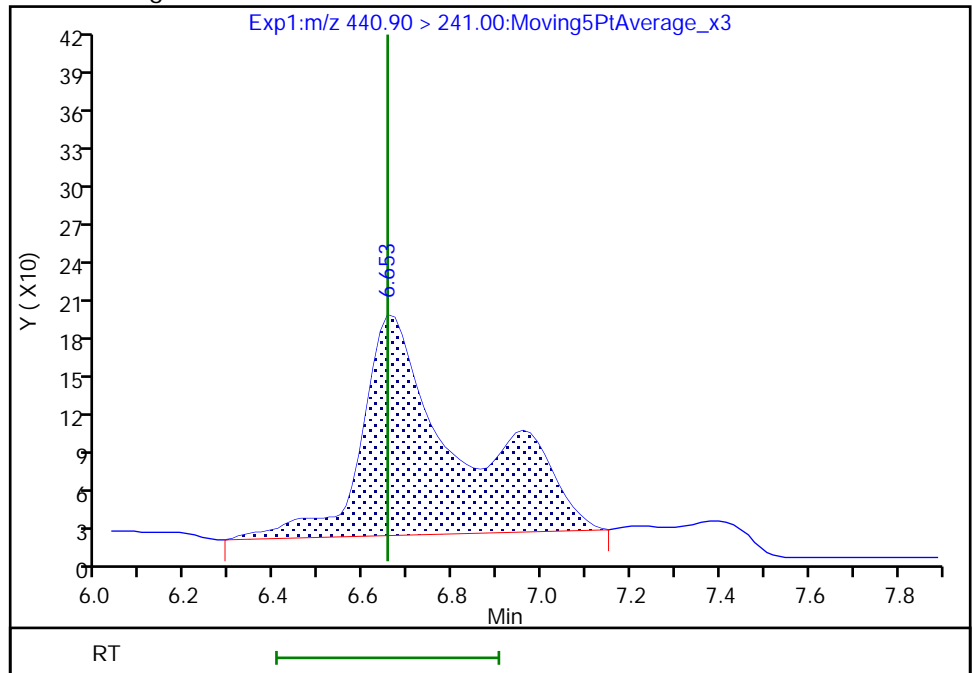
RT: 6.65  
Area: 3599  
Amount: 0.001136  
Amount Units: ng/ml

Processing Integration Results



RT: 6.65  
Area: 2728  
Amount: 0.001004  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:42:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

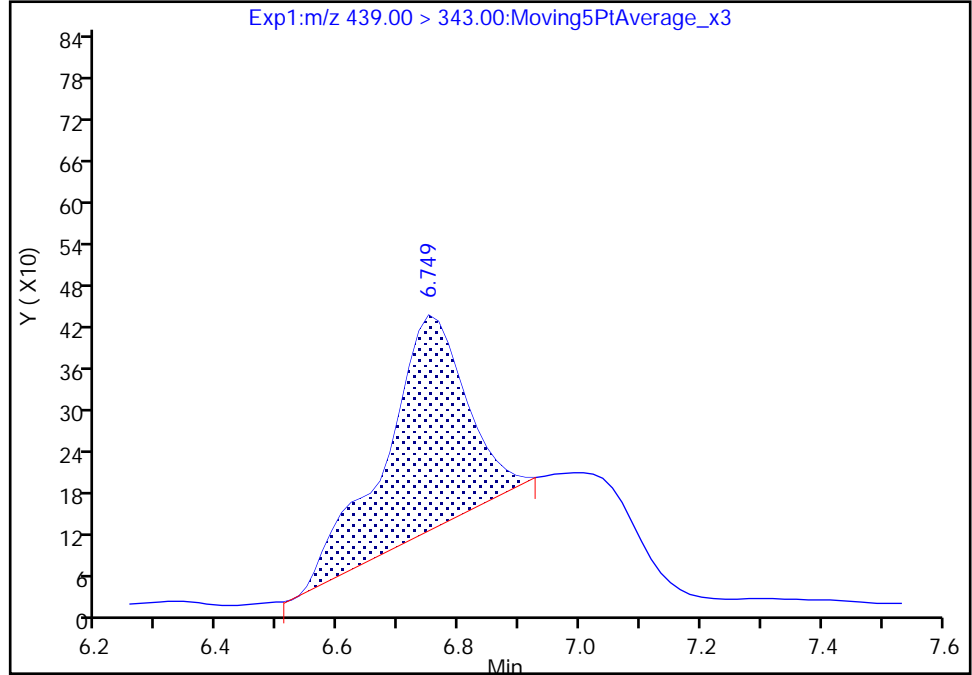
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

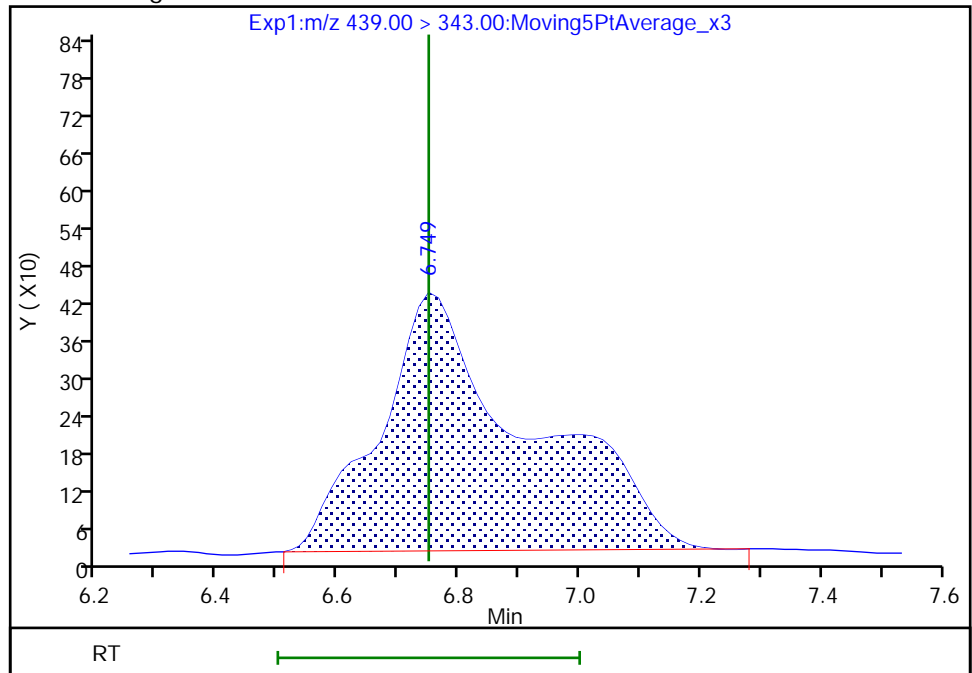
RT: 6.75  
Area: 2913  
Amount: 0.000540  
Amount Units: ng/ml

Processing Integration Results



RT: 6.75  
Area: 7023  
Amount: 0.000884  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:43:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Sacramento

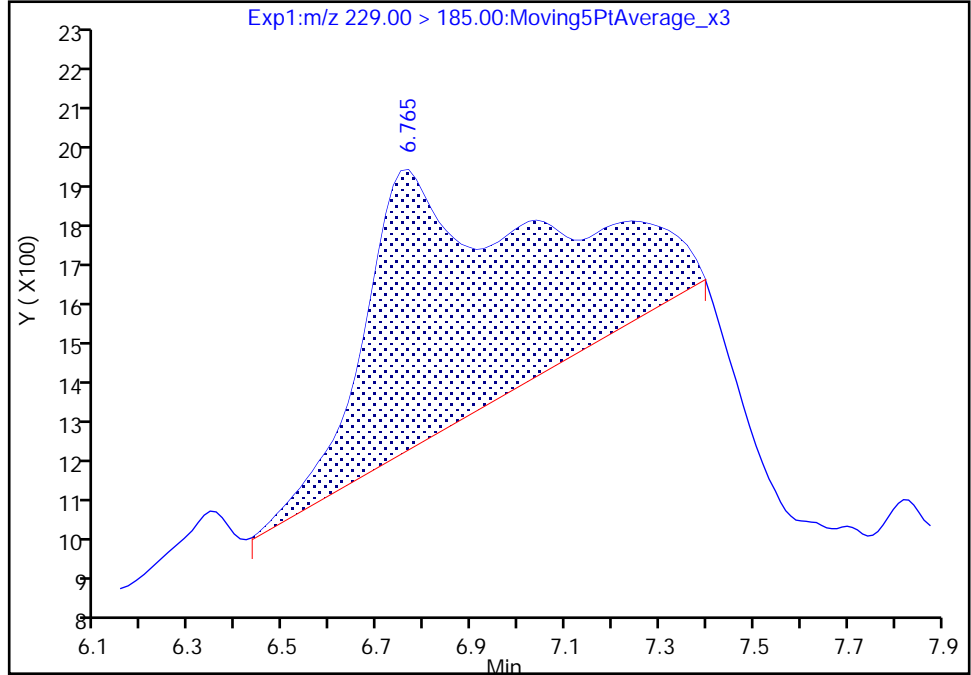
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

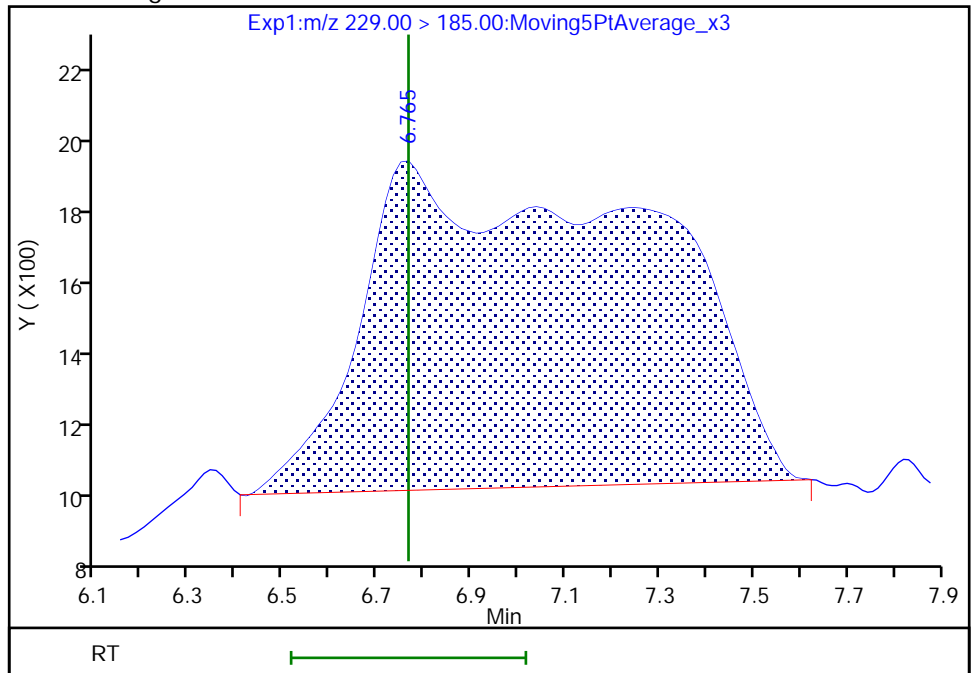
RT: 6.77  
Area: 17148  
Amount: 0.000913  
Amount Units: ng/ml

Processing Integration Results



RT: 6.77  
Area: 37469  
Amount: 0.000765  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:43:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

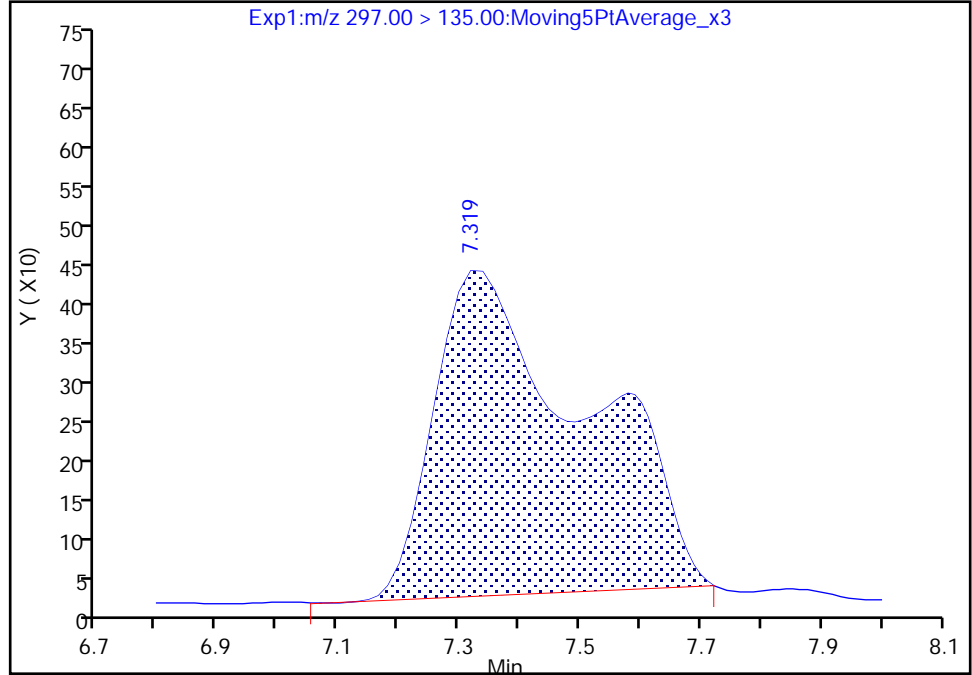
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

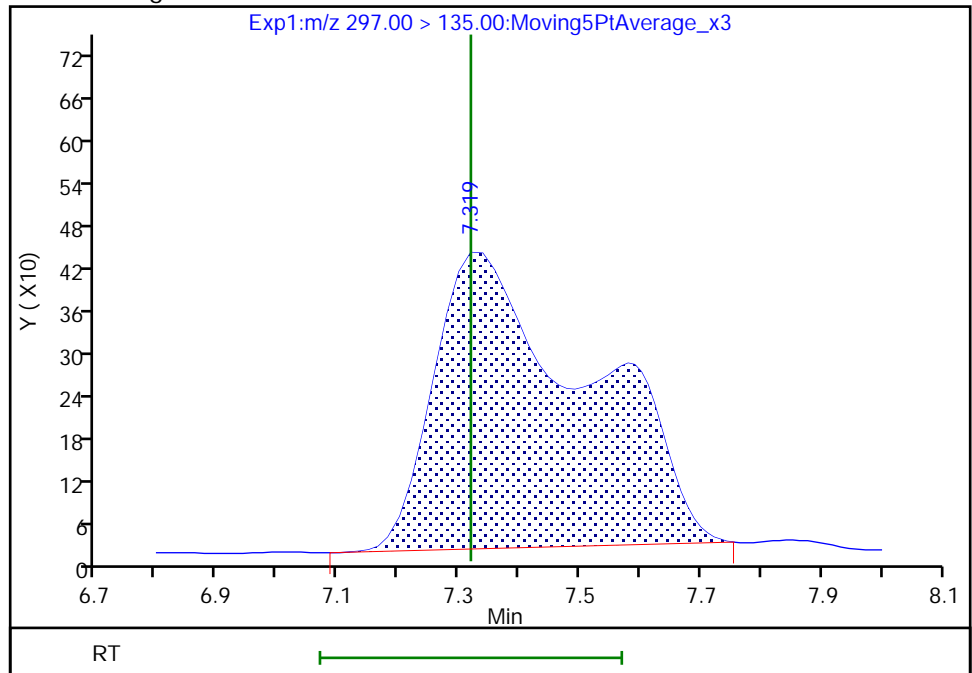
RT: 7.32  
Area: 7203  
Amount: 0.000944  
Amount Units: ng/ml

Processing Integration Results



RT: 7.32  
Area: 7358  
Amount: 0.000960  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:04:38  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

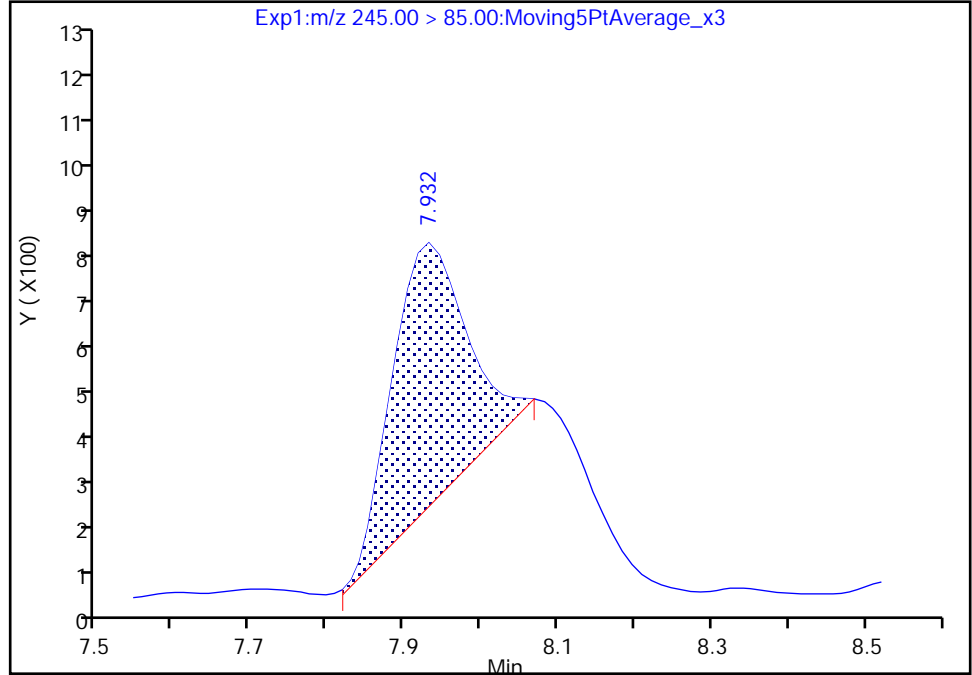
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Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 PFO2HxA, CAS: 39492-88-1

Signal: 1

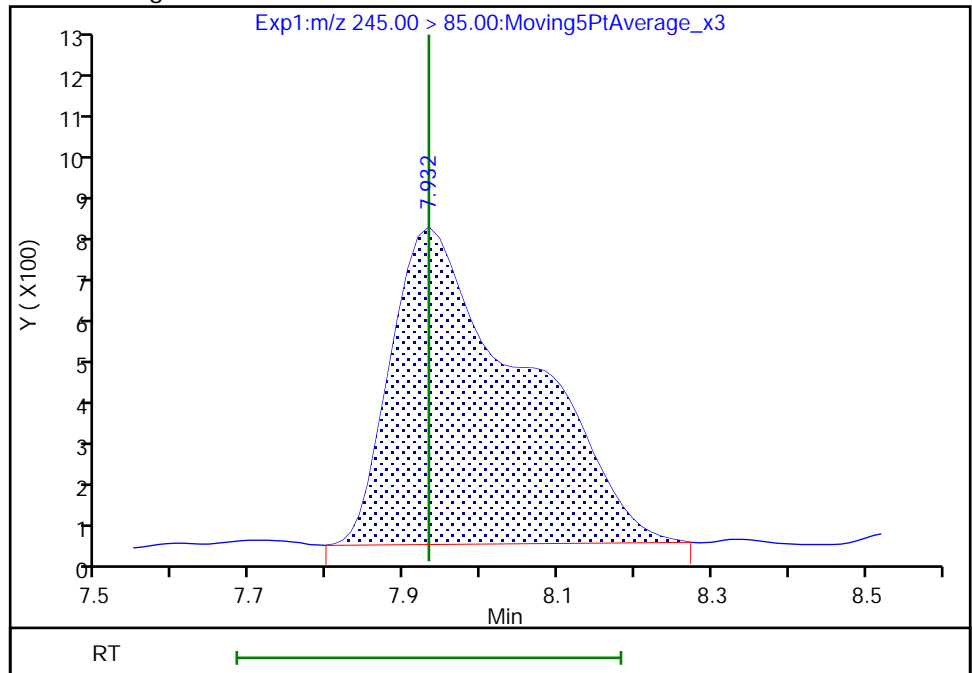
RT: 7.93  
Area: 3730  
Amount: 0.000564  
Amount Units: ng/ml

Processing Integration Results



RT: 7.93  
Area: 8834  
Amount: 0.000941  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:43:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

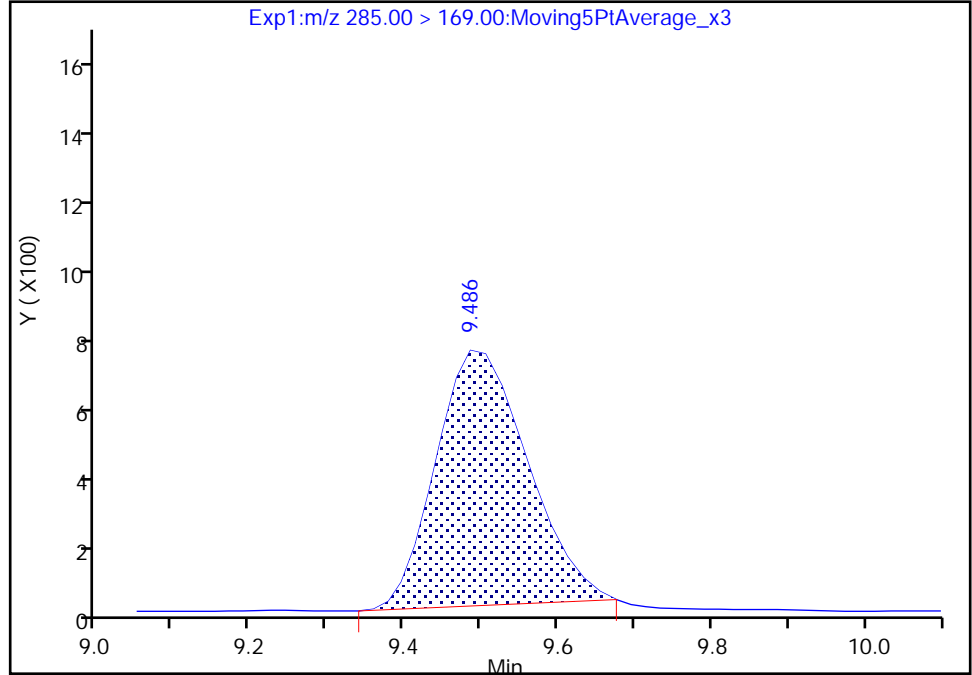
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_002.d  
Injection Date: 20-Feb-2021 10:46:28 Instrument ID: A10  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 4 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

11 HPFO-DA, CAS: 13252-13-6

Signal: 1

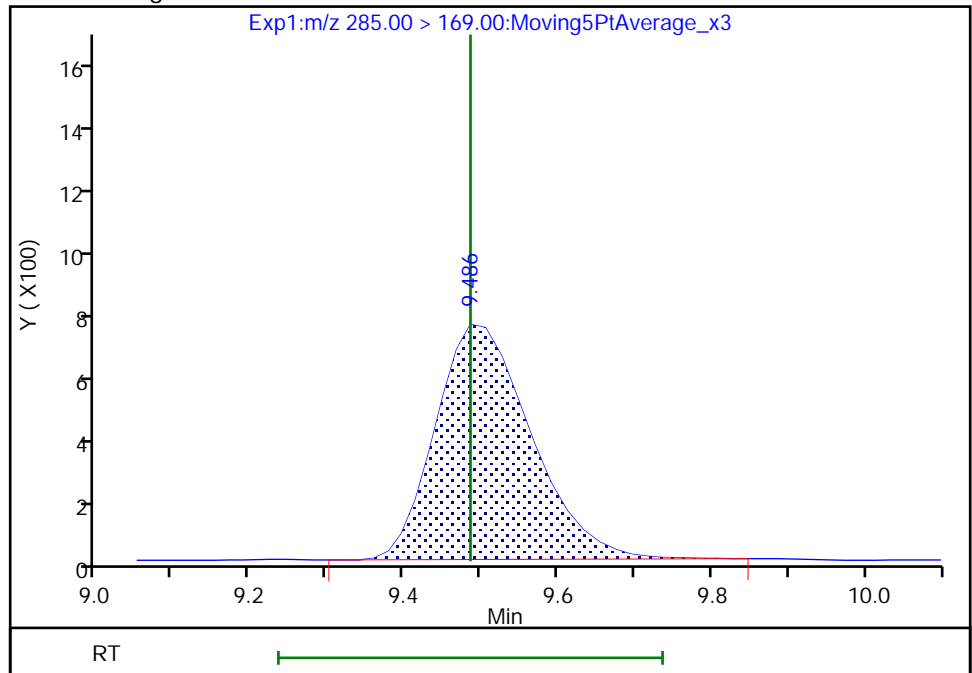
RT: 9.49  
Area: 5946  
Amount: 0.001072  
Amount Units: ng/ml

Processing Integration Results



RT: 9.49  
Area: 6298  
Amount: 0.001124  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:05:55  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 20-Feb-2021 11:03:56 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 2 (46)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:35 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 11:40:57

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.892	2.875	0.017		22895	0.002287		91.5	4.1	M
2 R-EVE										M
405.00 > 217.00	6.574	6.560	0.014		10170	0.002472		98.9	257	M
3 R-PSDA										M
440.90 > 241.00	6.670	6.653	0.017		6639	0.002444		97.8	155	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.750	6.749	0.001		19711	0.002482		99.3	364	
23 PMPA										M
229.00 > 185.00	6.750	6.765	-0.015		58856	0.002484		99.3	19.8	M
5 NVHOS										M
297.00 > 135.00	7.320	7.319	0.001		18941	0.002471		98.8	361	M
6 PFO2HxA										
245.00 > 85.00	7.919	7.932	-0.013		23768	0.002531		101	328	
22 PEPA										
278.90 > 234.90	8.574	8.584	-0.010		14016	0.002506		100	22.3	
7 PES										
314.90 > 135.00	8.897	8.908	-0.011		114477	0.002438		97.5	5373	
8 PFECA B										
295.00 > 201.00	9.127	9.139	-0.012		15847	0.002441		97.7	544	
9 PFO3OA										
310.90 > 85.00	9.380	9.396	-0.016		16509	0.002755		110	216	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.486	9.486	0.0		1397922	0.2527		101	55095	
11 HPFO-DA										M
285.00 > 169.00	9.486	9.486	0.0	1.000	15911	0.002614		105	615	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.848	9.847	0.001		162762	0.002589		104	5156	
13 Hydro-EVE Acid										
427.00 > 282.90	9.905	9.904	0.001		202272	0.002562		102	3778	
D 14 13C4 PFHpA										
367.00 > 322.00	9.905	9.904	0.001		6658411	0.2621		105	139800	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.905	9.904	0.001	1.000	82305	0.002498	Target=0.00	99.9	441	
363.00 > 169.00	9.905	9.904	0.001	1.000	34567		2.38(0.00-0.00)	99.9	1109	
15 Hydro-PS Acid										
463.00 > 262.90	9.922	9.939	-0.017		63056	0.002482		99.3	1781	
17 PFECA G										
378.90 > 184.90	10.013	10.034	-0.021		20486	0.002181		87.2	820	
18 PFO4DA										
376.90 > 85.00	10.162	10.161	0.001		13503	0.002618		105	96.5	
19 PS Acid										
443.00 > 146.90	10.222	10.242	-0.020		28298	0.002476		99.0	898	
20 EVE Acid										
407.00 > 262.90	10.242	10.260	-0.018		115541	0.002558		102	5014	
21 TAF										
442.90 > 85.00	10.734	10.745	-0.011		8513	0.002271		90.8	25.8	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00046

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d

Injection Date: 20-Feb-2021 11:03:56

Instrument ID: A10

Lims ID: IC STD 2

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 5

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

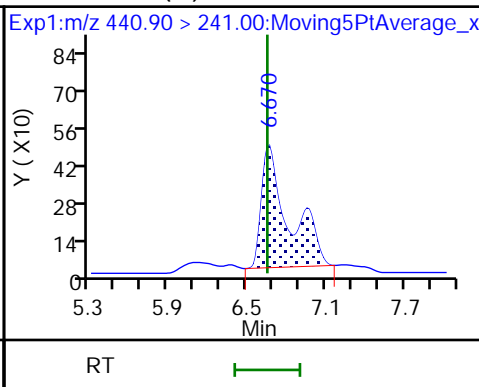
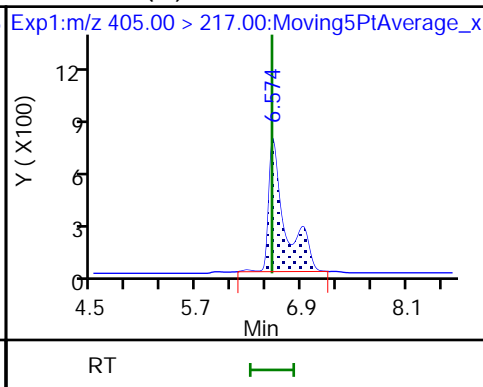
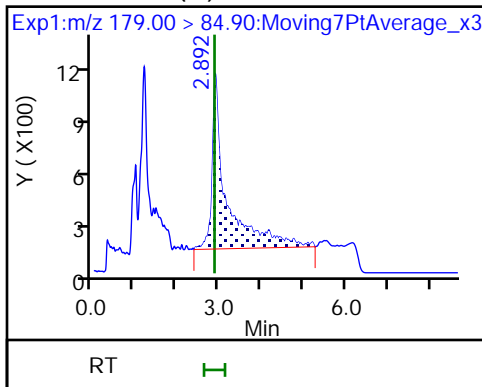
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

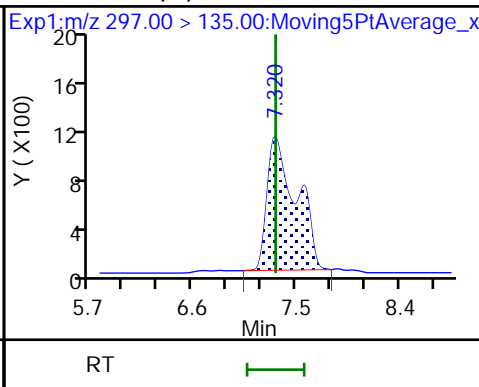
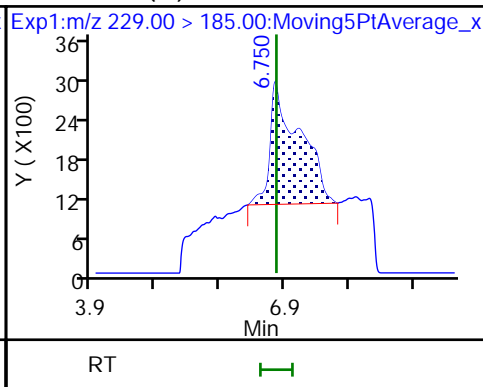
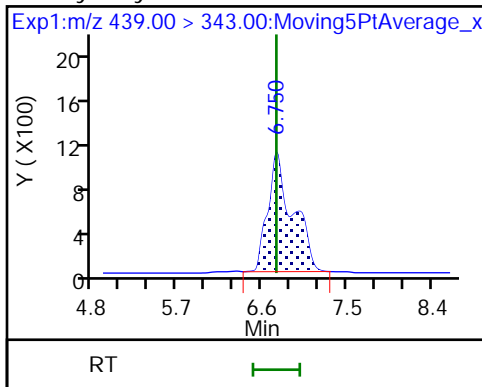
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA (M)

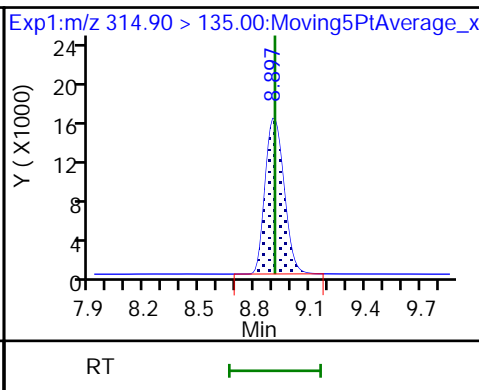
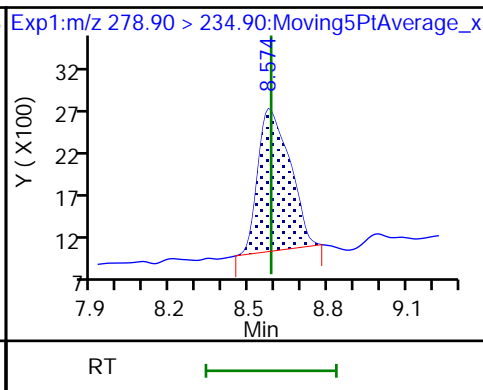
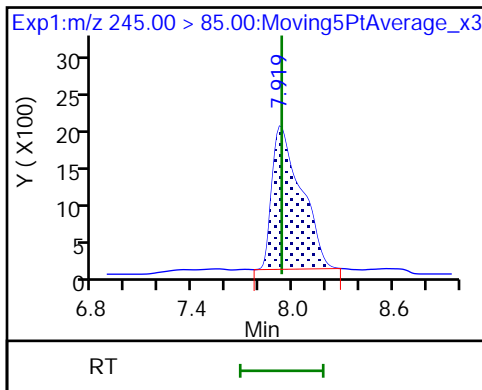
5 NVHOS (M)



6 PFO2HxA

22 PEPA

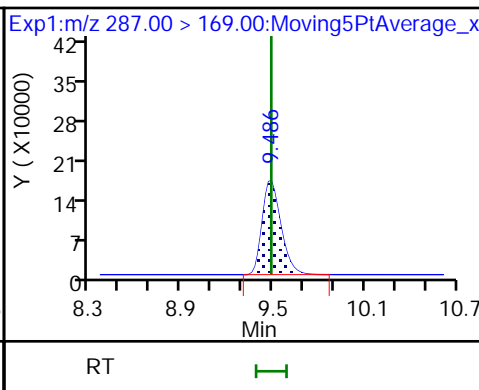
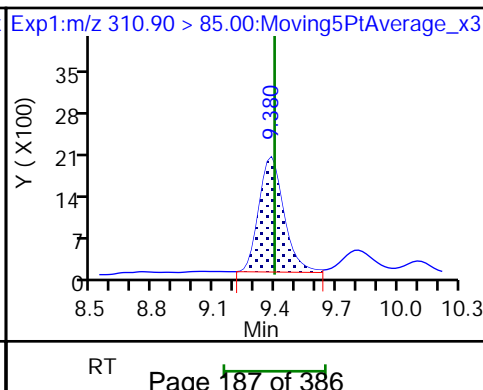
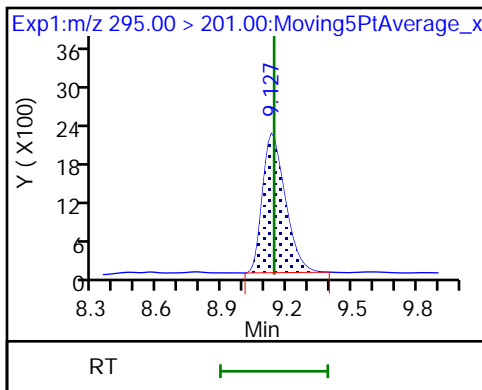
7 PES

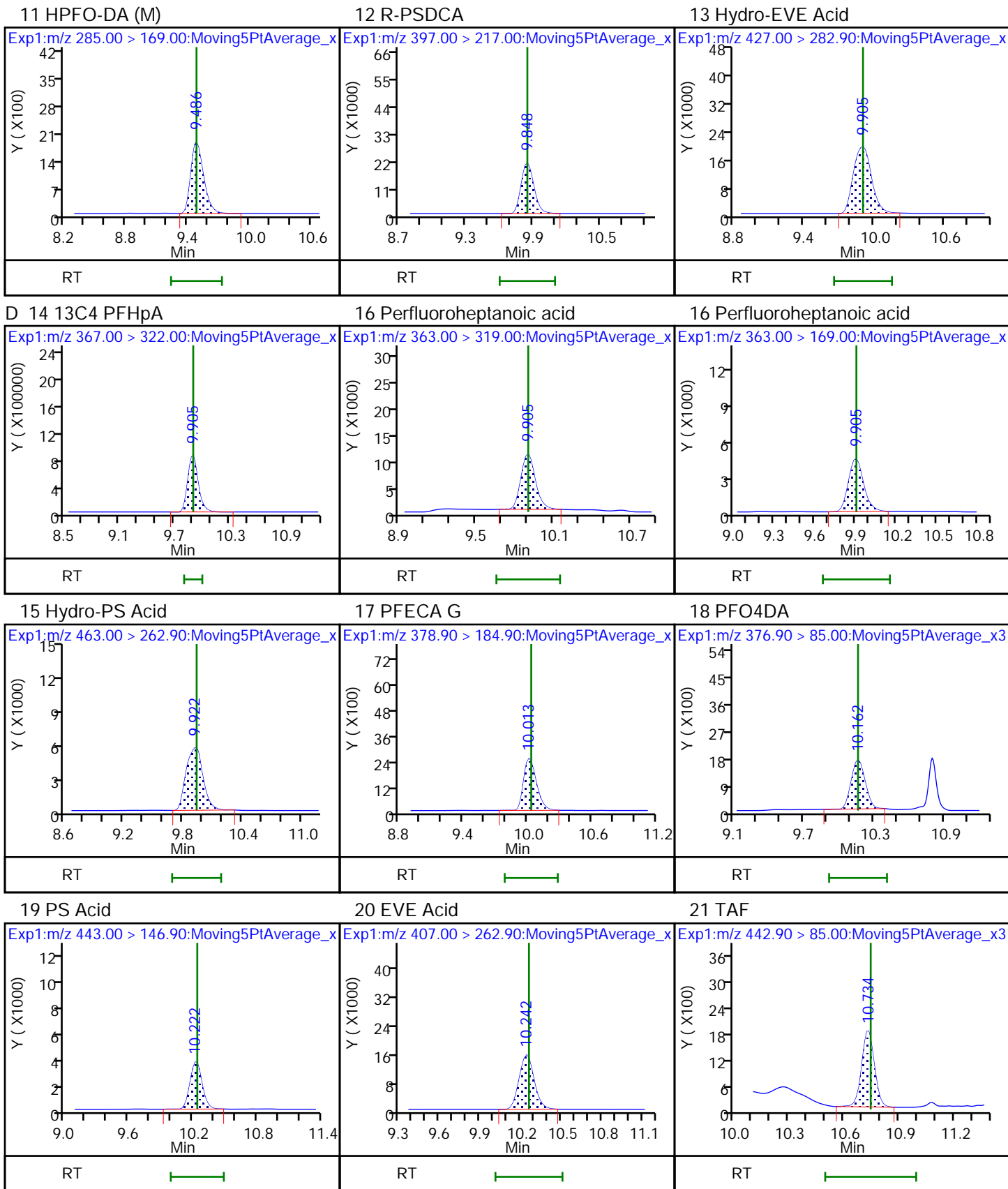


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

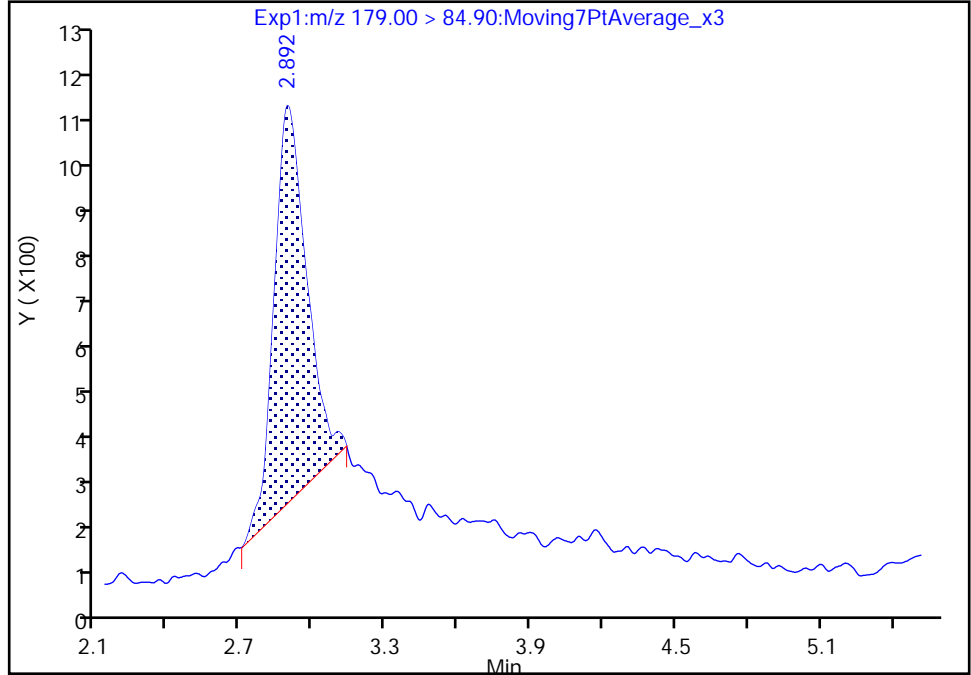
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

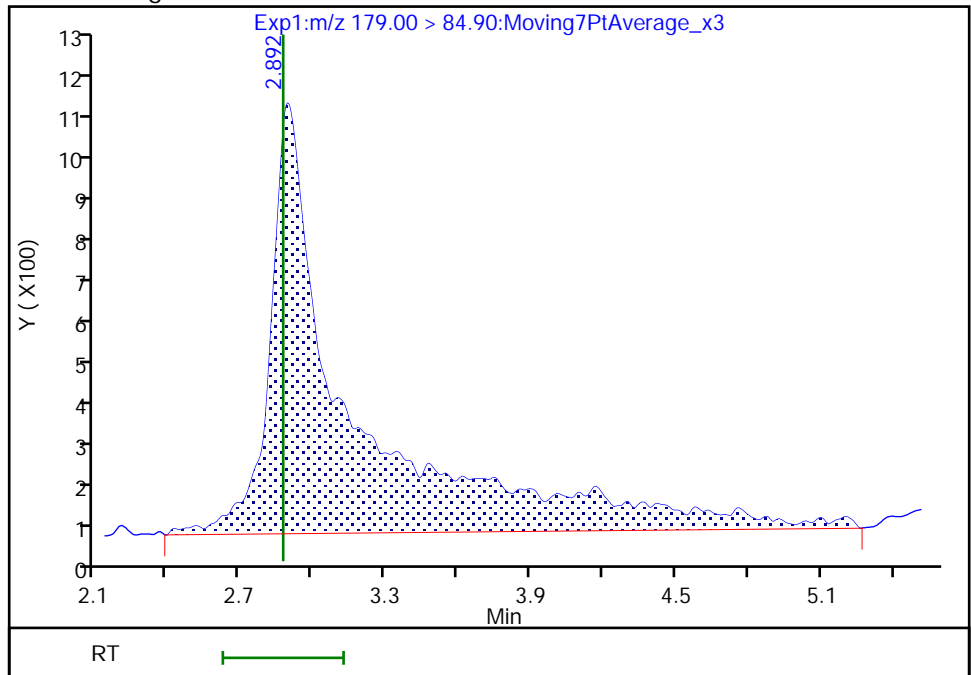
RT: 2.89  
Area: 7512  
Amount: 0.001590  
Amount Units: ng/ml

Processing Integration Results



RT: 2.89  
Area: 22895  
Amount: 0.002287  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:44:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

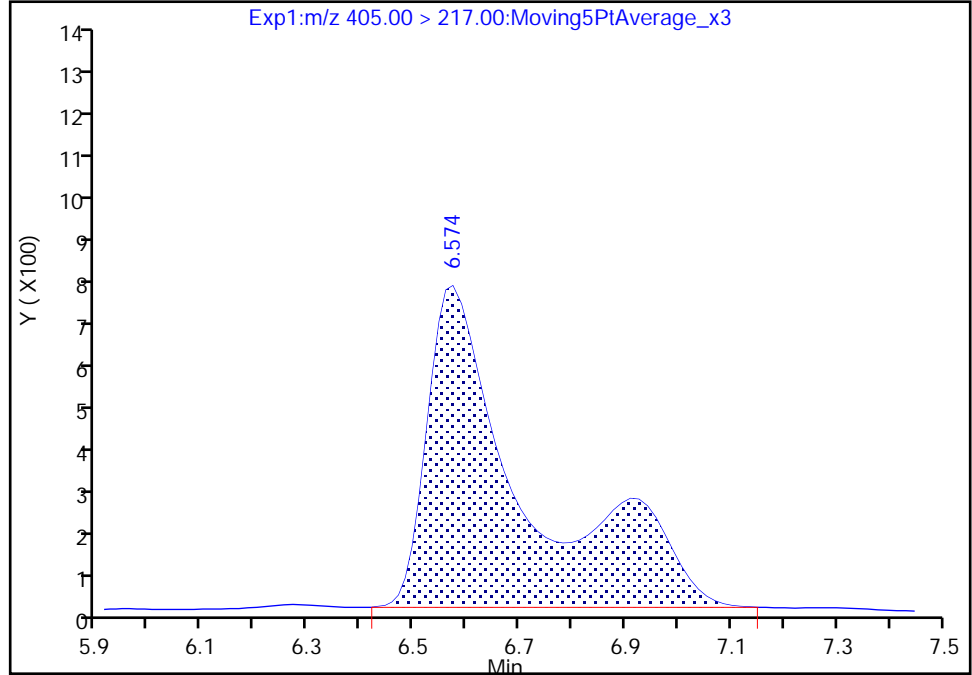
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

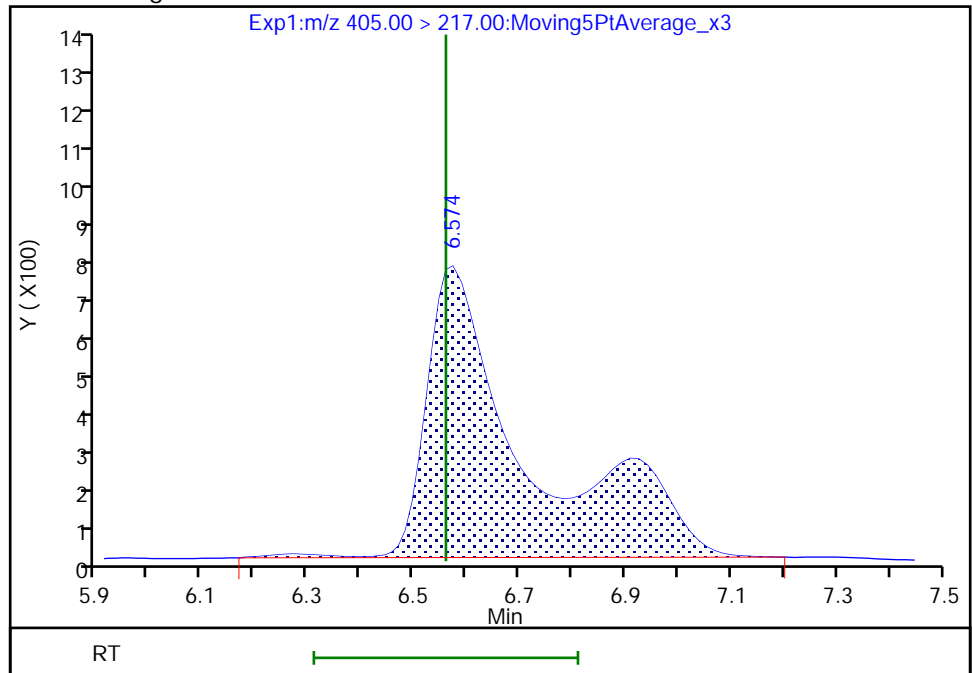
RT: 6.57  
Area: 10013  
Amount: 0.002438  
Amount Units: ng/ml

Processing Integration Results



RT: 6.57  
Area: 10170  
Amount: 0.002472  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:01:50  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

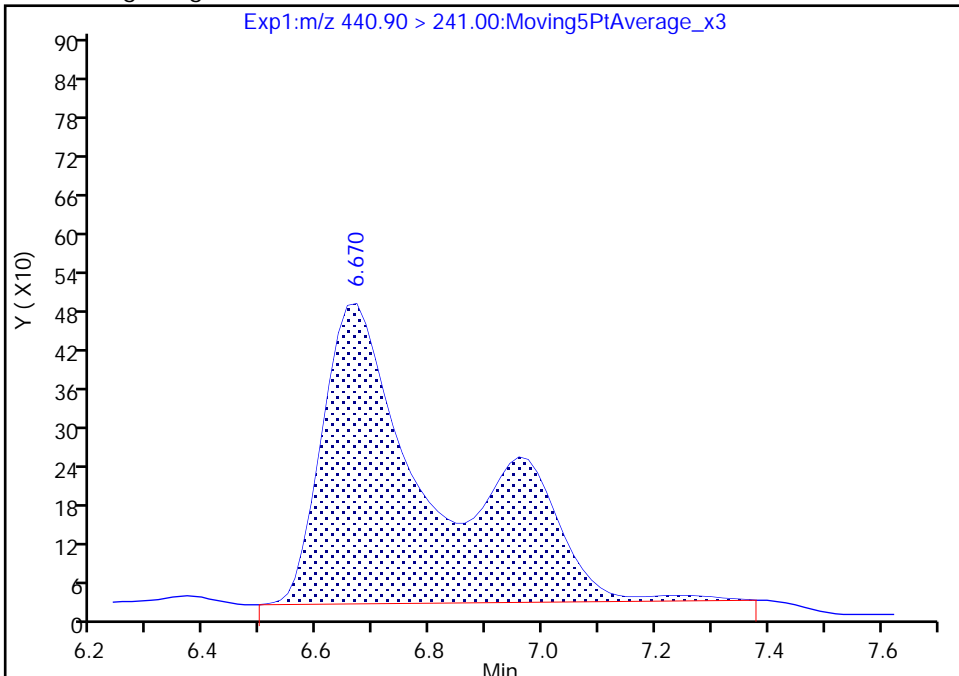
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
 Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
 Lims ID: IC STD 2  
 Client ID:  
 Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

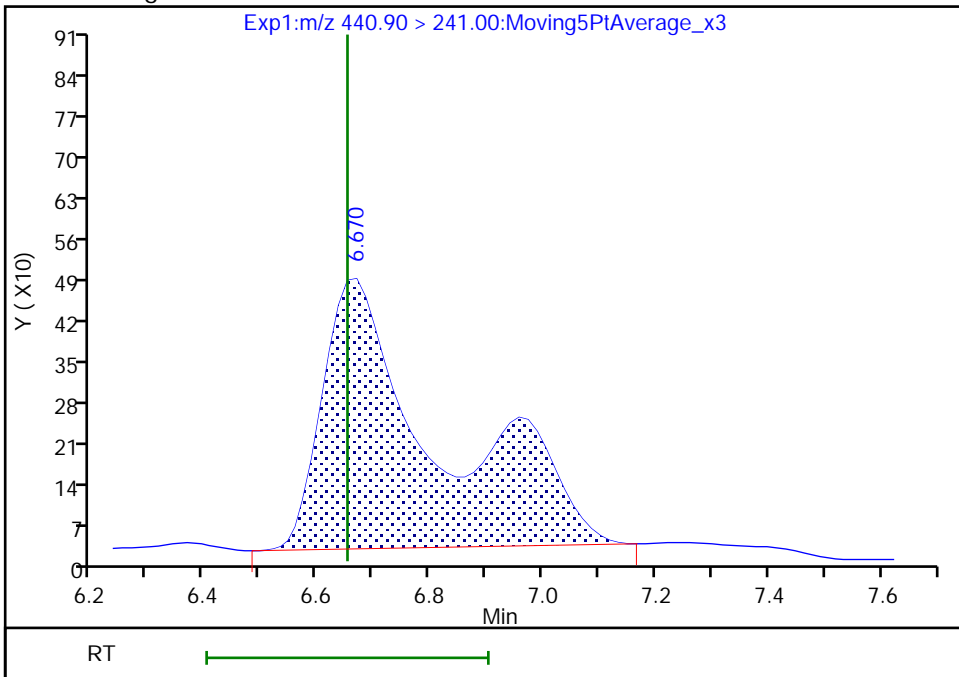
RT: 6.67  
 Area: 6849  
 Amount: 0.002505  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.67  
 Area: 6639  
 Amount: 0.002444  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:44:18  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

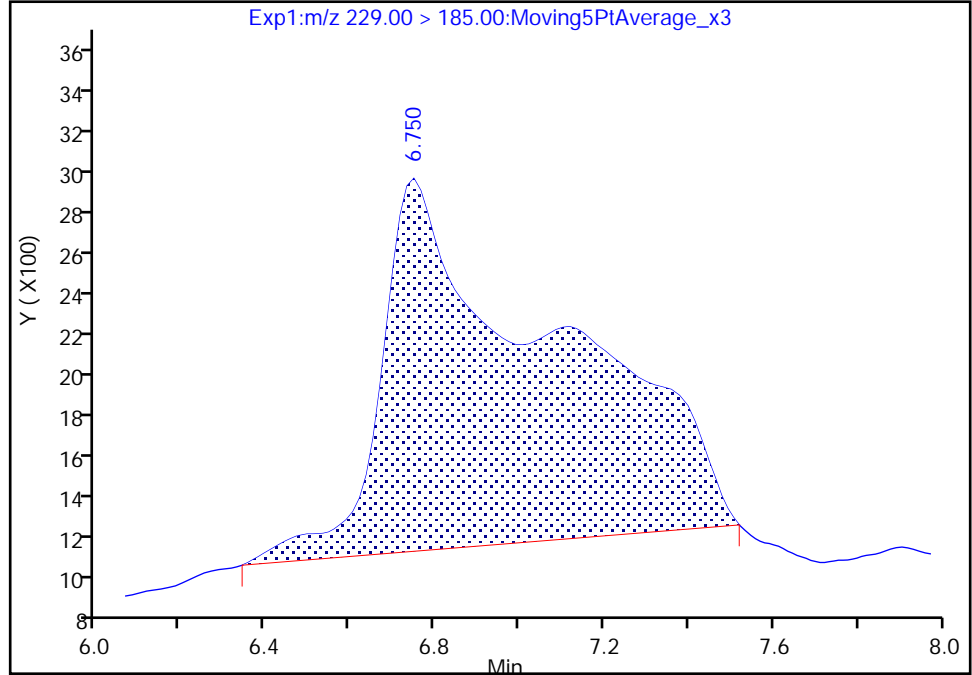
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

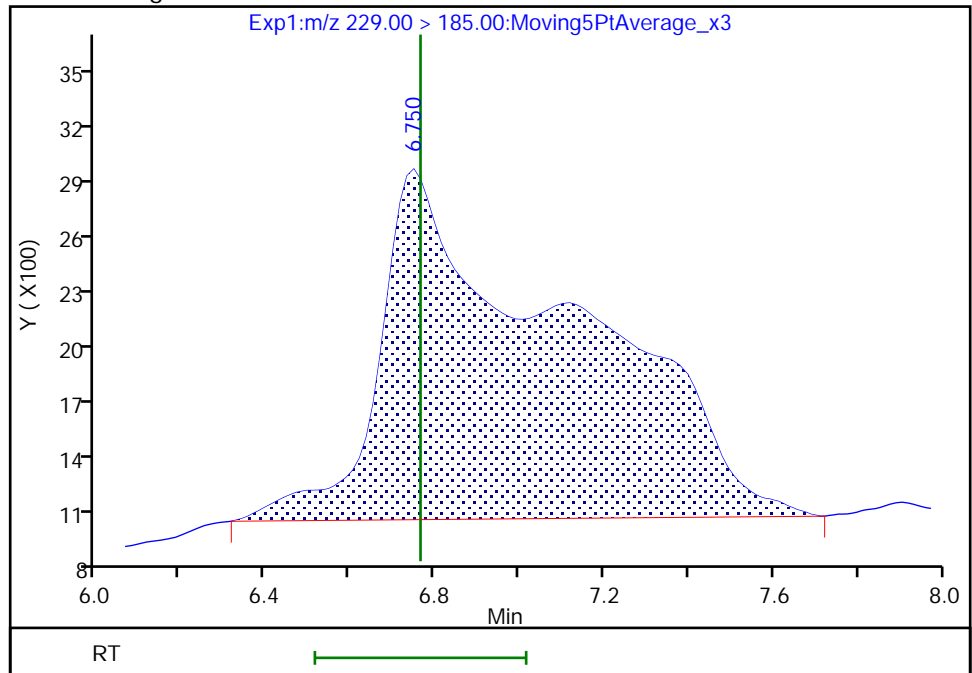
RT: 6.75  
Area: 51018  
Amount: 0.001763  
Amount Units: ng/ml

Processing Integration Results



RT: 6.75  
Area: 58856  
Amount: 0.002484  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 11:44:27  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

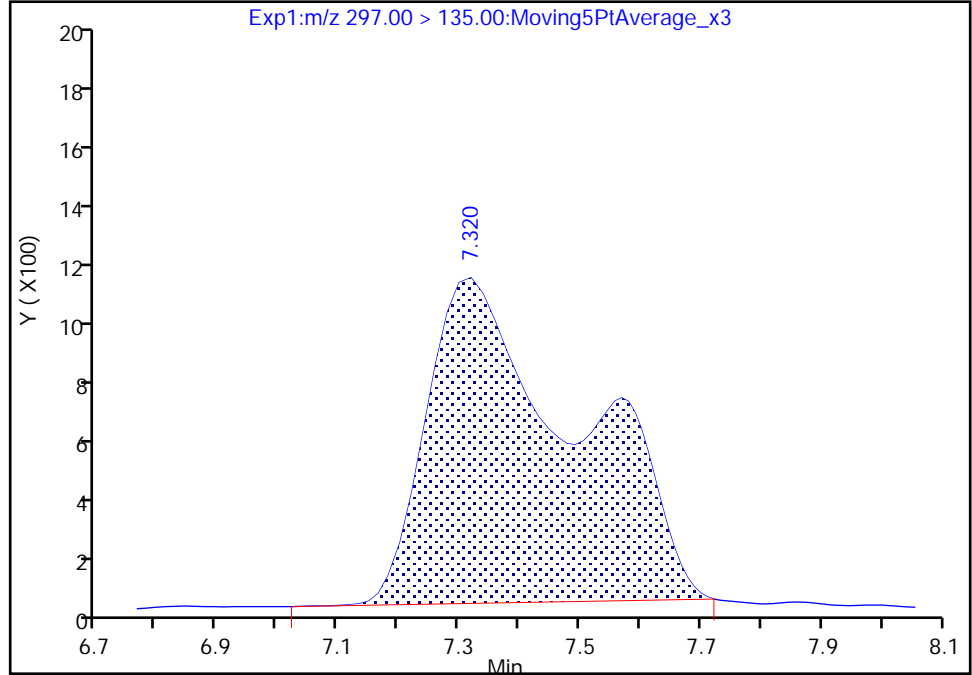
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

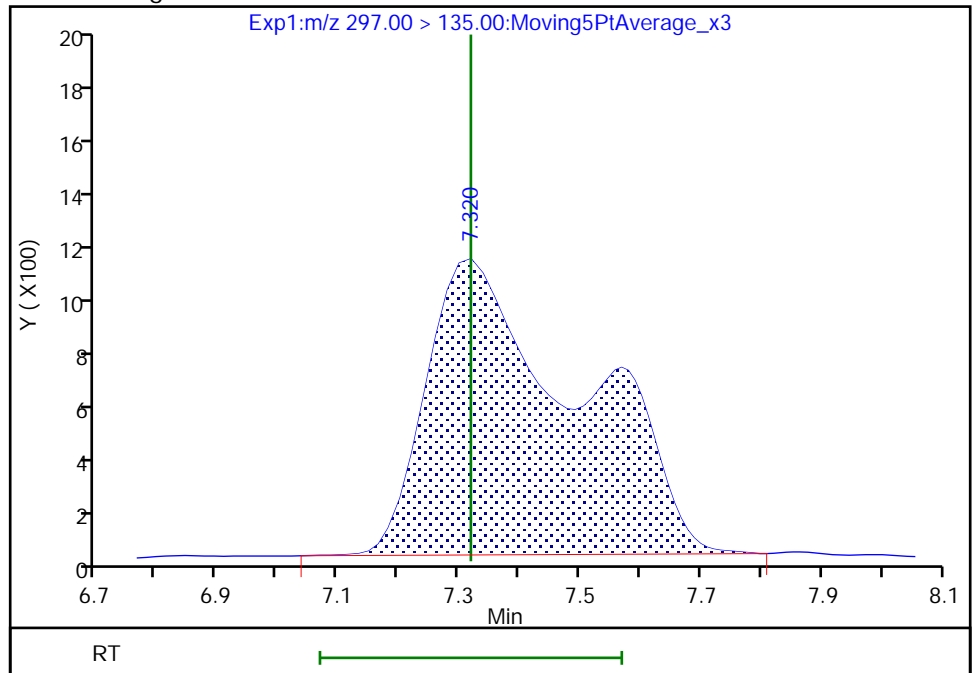
RT: 7.32  
Area: 18568  
Amount: 0.002429  
Amount Units: ng/ml

Processing Integration Results



RT: 7.32  
Area: 18941  
Amount: 0.002471  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:04:54  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

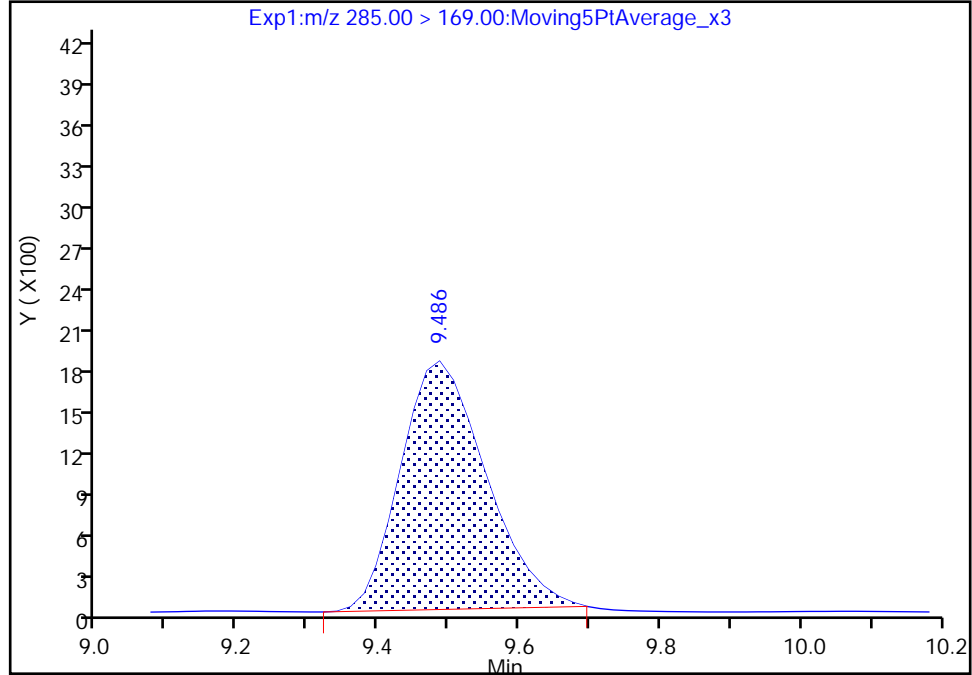
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_003.d  
Injection Date: 20-Feb-2021 11:03:56 Instrument ID: A10  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 5 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

11 HPFO-DA, CAS: 13252-13-6

Signal: 1

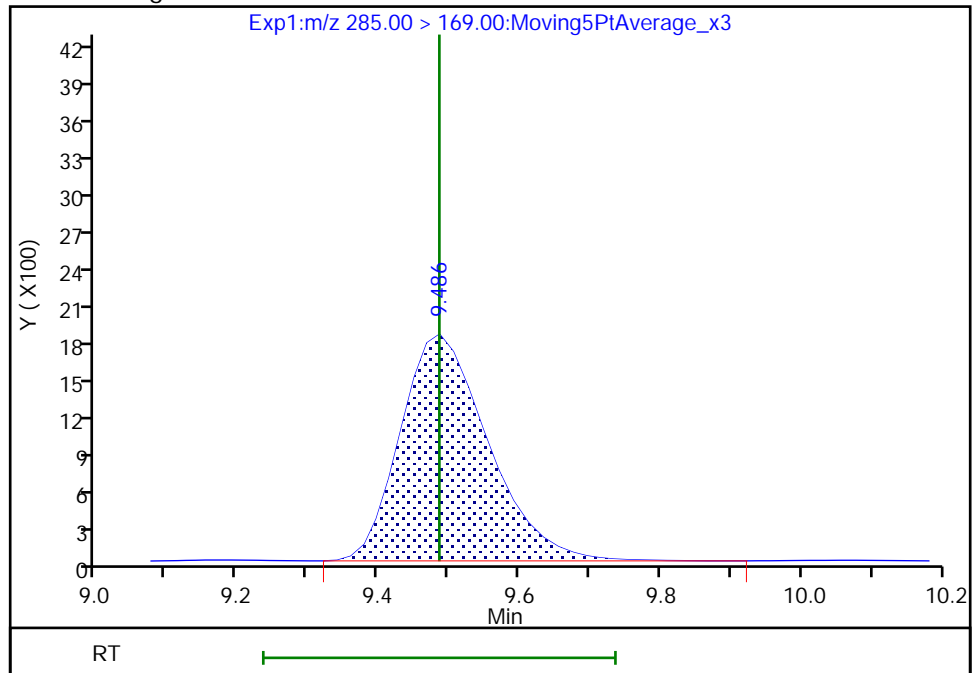
RT: 9.49  
Area: 15350  
Amount: 0.002531  
Amount Units: ng/ml

Processing Integration Results



RT: 9.49  
Area: 15911  
Amount: 0.002614  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:06:08  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 195 of 386

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 20-Feb-2021 11:21:24 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 3 (46)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:36 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 13:21:27

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.004	2.875	0.129		45557	0.004550		91.0	5.9	M
2 R-EVE										M
405.00 > 217.00	6.621	6.560	0.061		19048	0.004630		92.6	480	M
3 R-PSDA										M
440.90 > 241.00	6.701	6.653	0.048		12855	0.004733		94.7	328	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.797	6.749	0.048		39814	0.005013		100	808	
23 PMPA										
229.00 > 185.00	6.781	6.765	0.016		89382	0.004936		98.7	35.7	
5 NVHOS										M
297.00 > 135.00	7.339	7.319	0.020		38344	0.005002		100	790	M
6 PFO2HxA										
245.00 > 85.00	7.946	7.932	0.014		46864	0.004990		99.8	577	
22 PEPA										
278.90 > 234.90	8.577	8.584	-0.007		28156	0.005035		101	47.1	
7 PES										
314.90 > 135.00	8.904	8.908	-0.004		230225	0.004902		98.0	8587	
8 PFECA B										
295.00 > 201.00	9.122	9.139	-0.017		32125	0.004949		99.0	1103	
9 PFO3OA										
310.90 > 85.00	9.371	9.396	-0.025		30103	0.005023		100	469	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.476	9.486	-0.010		1384745	0.2503		100	55239	
11 HPFO-DA										
285.00 > 169.00	9.476	9.486	-0.010	1.000	28654	0.004752		95.0	1136	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.838	9.847	-0.009		316538	0.005035		101	9974	
13 Hydro-EVE Acid										
427.00 > 282.90	9.895	9.904	-0.009		399155	0.005055		101	6295	
D 14 13C4 PFHpA										
367.00 > 322.00	9.895	9.904	-0.009		6569203	0.2586		103	118950	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.895	9.904	-0.009	1.000	146570	0.004860	Target=0.00	97.2	780	
363.00 > 169.00	9.895	9.904	-0.009	1.000	64390		2.28(0.00-0.00)	97.2	2760	
15 Hydro-PS Acid										
463.00 > 262.90	9.931	9.939	-0.008		124990	0.004919		98.4	3578	
17 PFECA G										
378.90 > 184.90	10.000	10.034	-0.034		45072	0.004798		96.0	1809	
18 PFO4DA										
376.90 > 85.00	10.151	10.161	-0.010		26406	0.005119		102	259	
19 PS Acid										
443.00 > 146.90	10.231	10.242	-0.011		57184	0.005003		100	1797	
20 EVE Acid										
407.00 > 262.90	10.231	10.260	-0.029		234854	0.005199		104	9869	
21 TAF										
442.90 > 85.00	10.729	10.745	-0.016		20079	0.005356		107	61.0	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00046

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d

Injection Date: 20-Feb-2021 11:21:24

Instrument ID: A10

Lims ID: IC STD 3

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 6

Worklist Smp#: 4

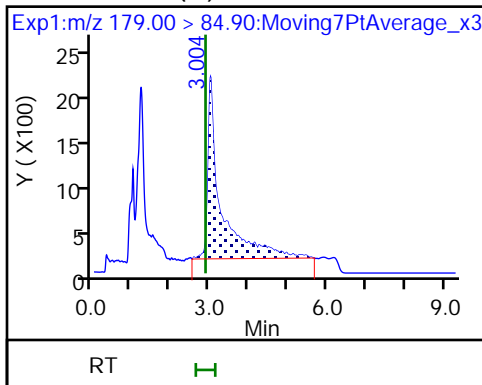
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

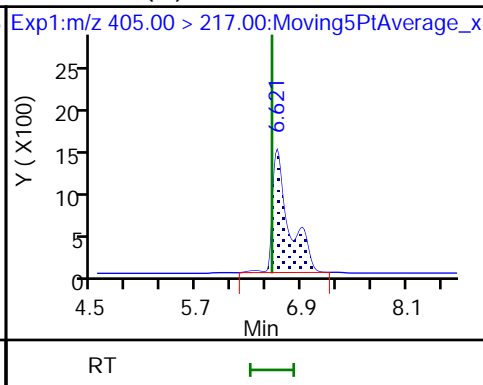
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

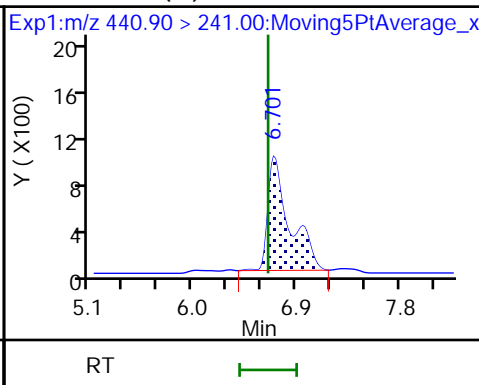
1 PFMOAA (M)



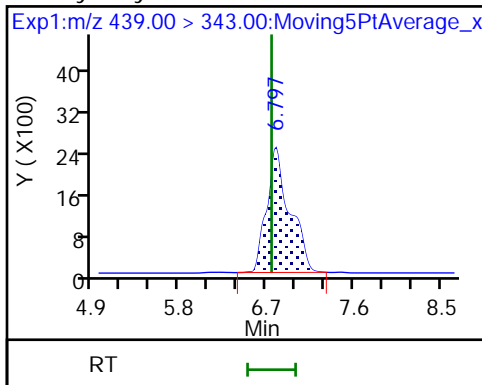
2 R-EVE (M)



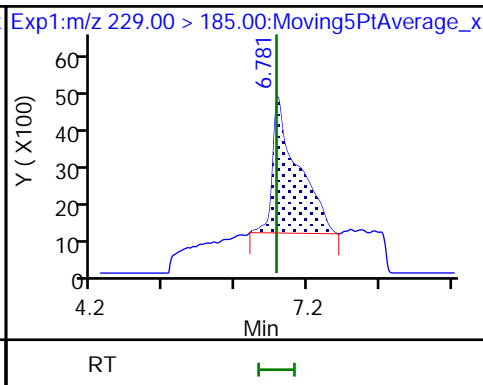
3 R-PSDA (M)



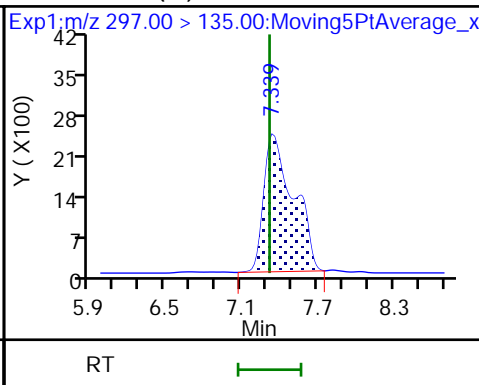
4 Hydrolyzed PSDA



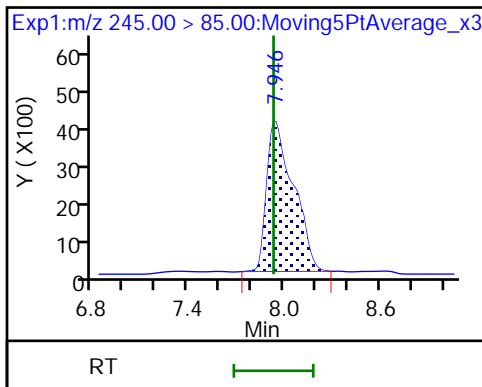
23 PMPA



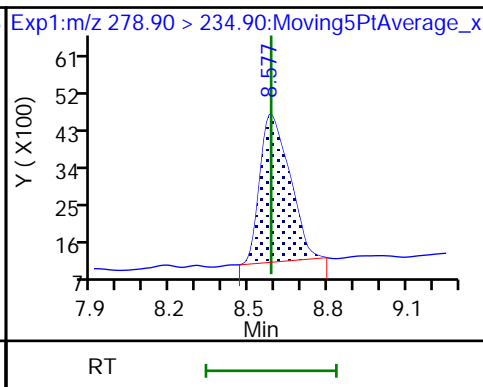
5 NVHOS (M)



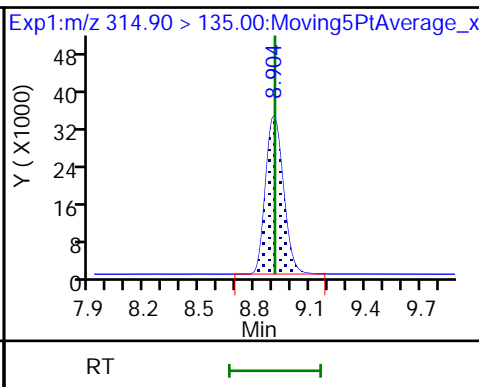
6 PFO2HxA



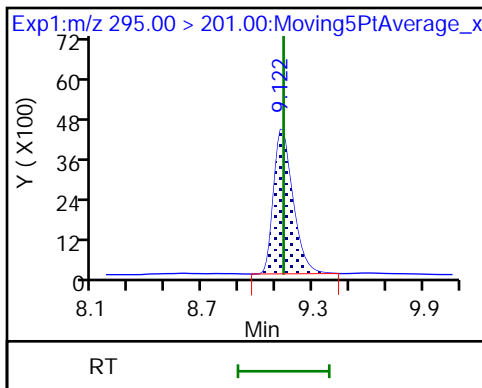
22 PEPA



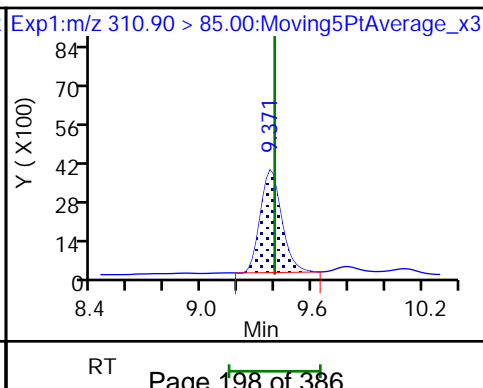
7 PES



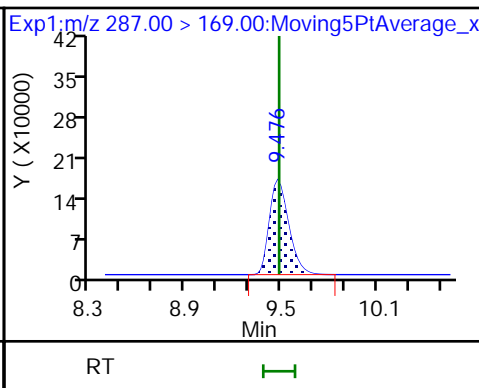
8 PFECA B

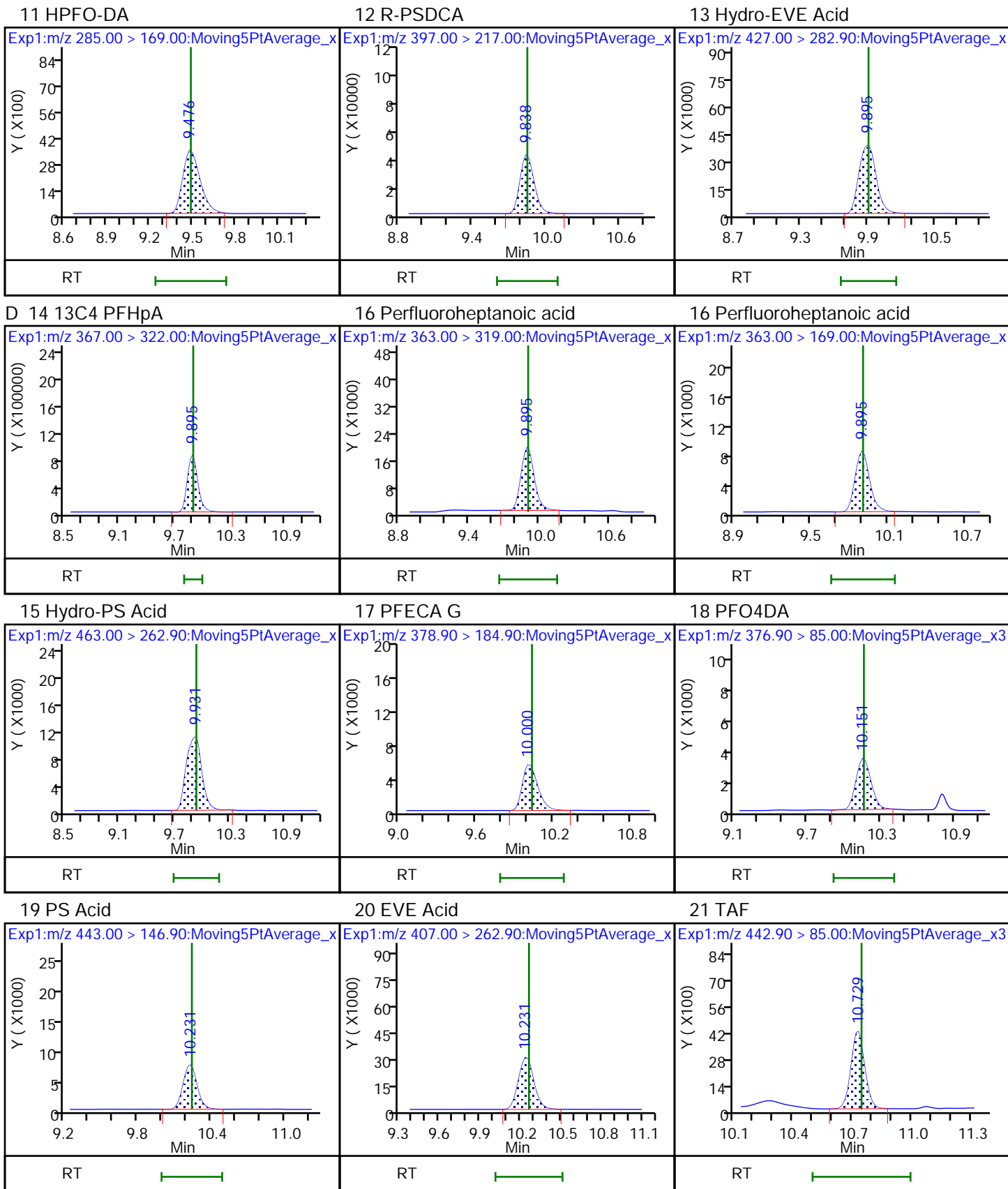


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

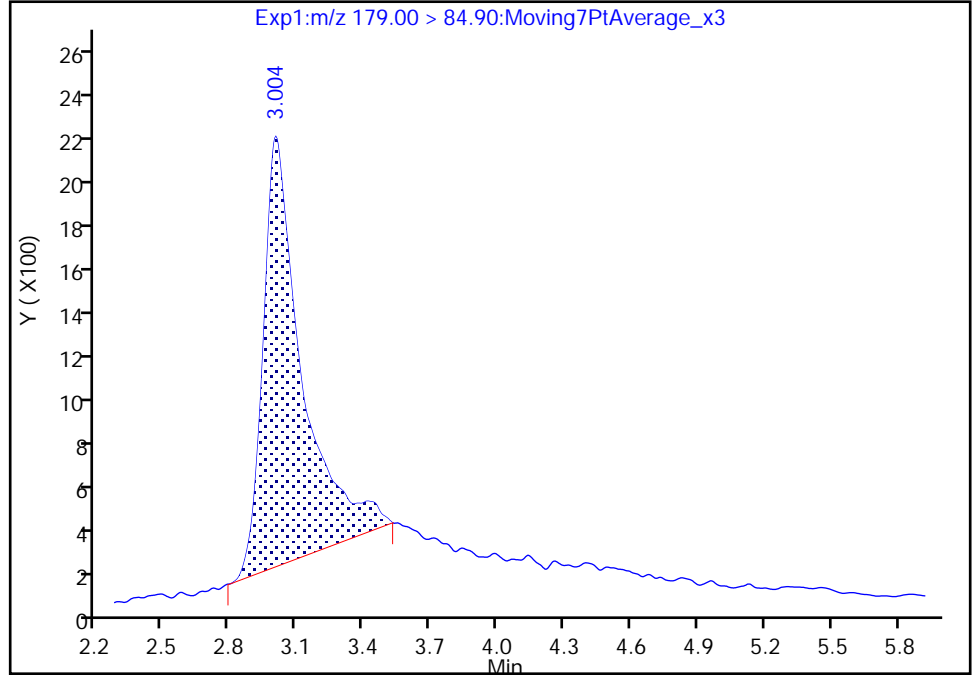
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d  
Injection Date: 20-Feb-2021 11:21:24 Instrument ID: A10  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

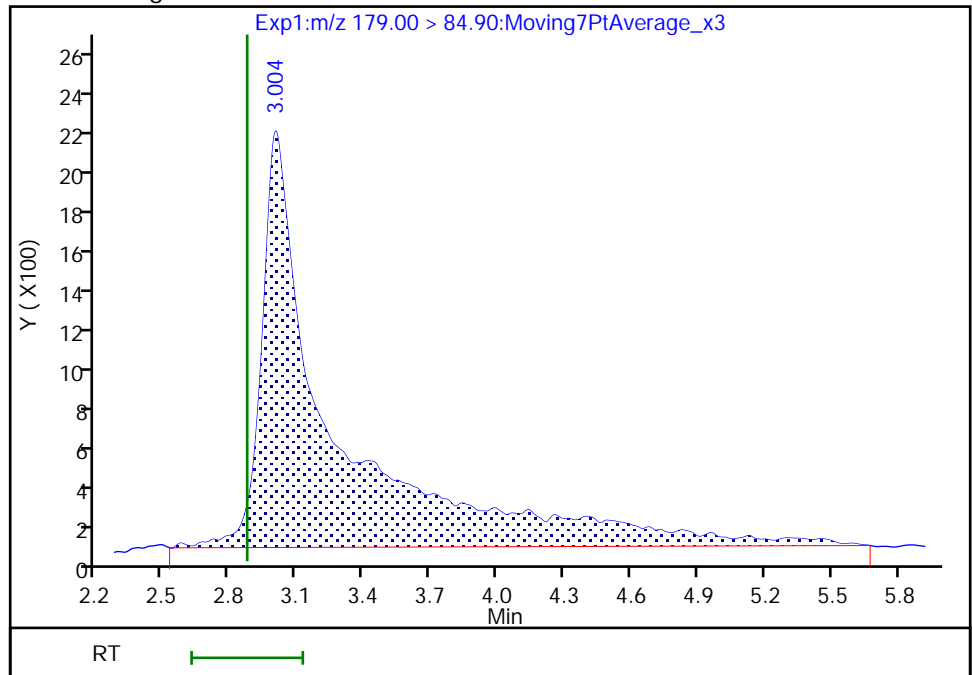
RT: 3.00  
Area: 22553  
Amount: 0.003686  
Amount Units: ng/ml

Processing Integration Results



RT: 3.00  
Area: 45557  
Amount: 0.004550  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:20:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

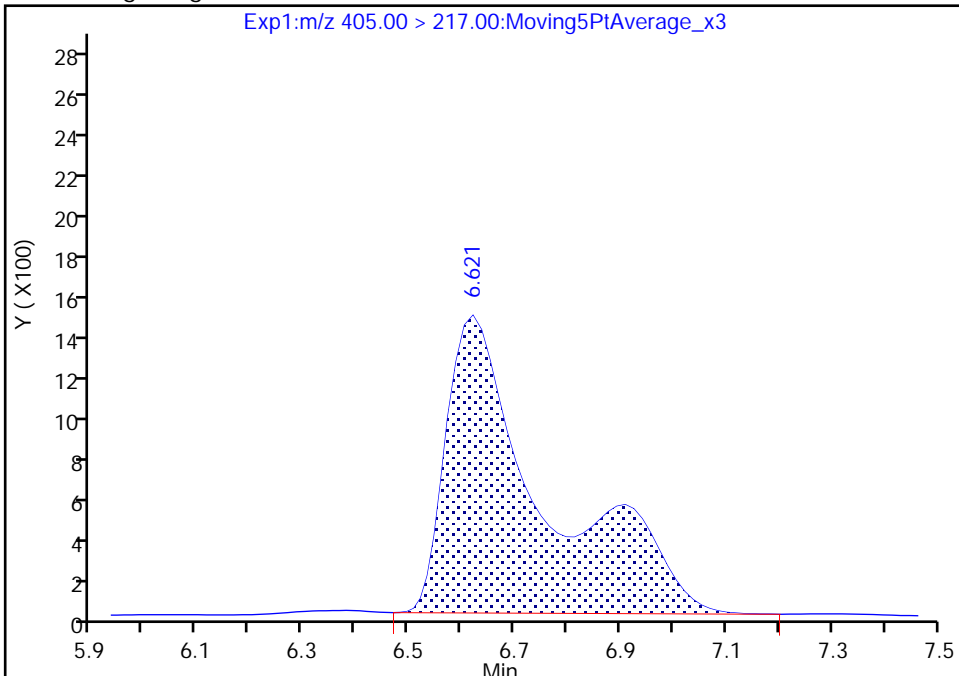
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d  
 Injection Date: 20-Feb-2021 11:21:24 Instrument ID: A10  
 Lims ID: IC STD 3  
 Client ID:  
 Operator ID: Sac\_inst\_A10 ALS Bottle#: 6 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

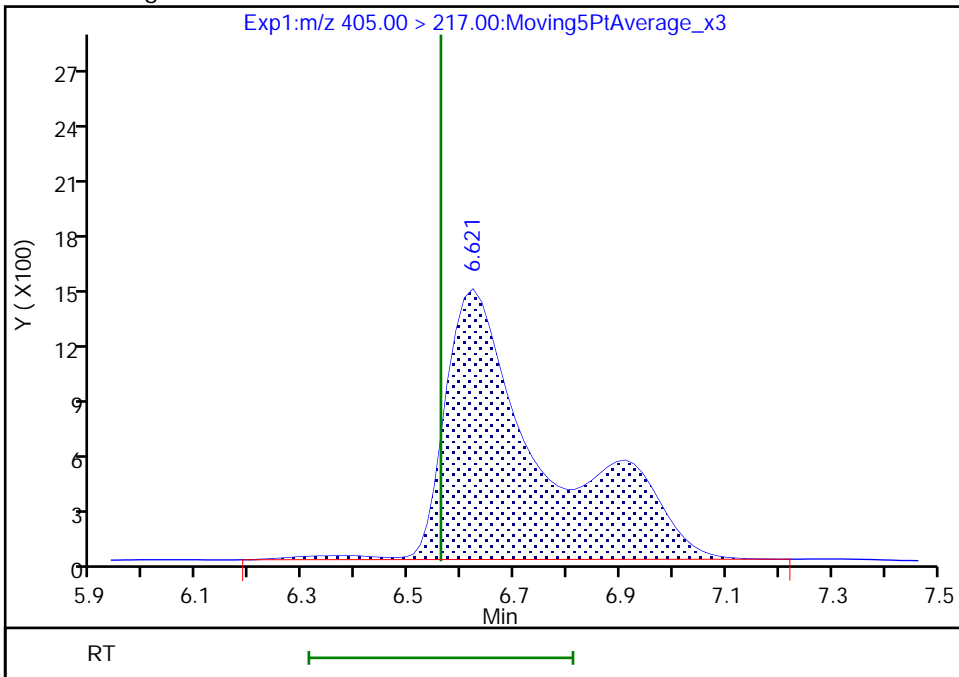
RT: 6.62  
 Area: 18659  
 Amount: 0.005207  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.62  
 Area: 19048  
 Amount: 0.004630  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:20:58  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

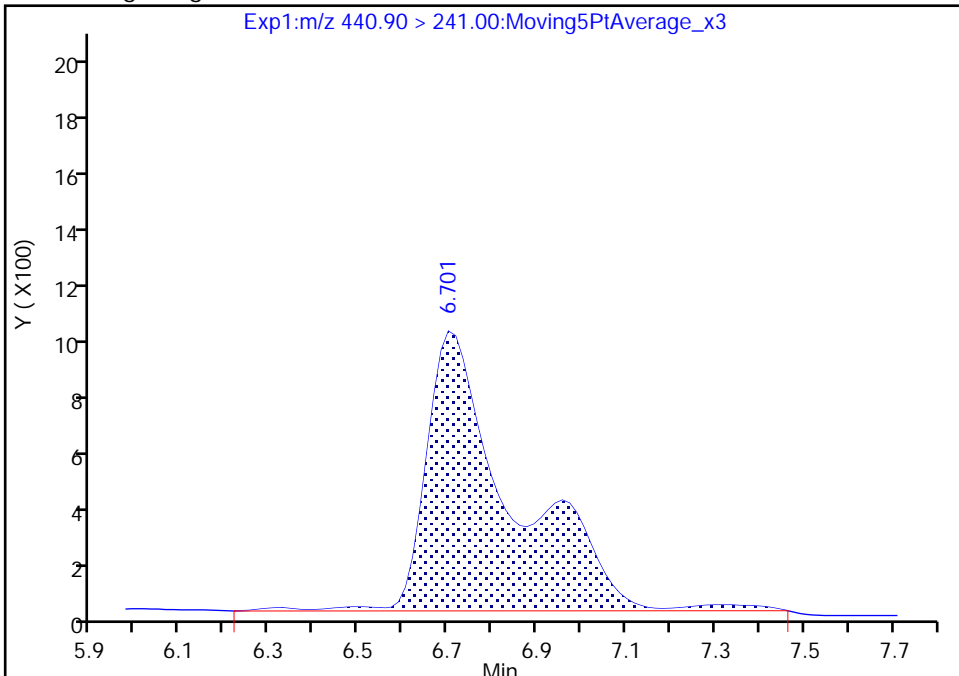
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d  
Injection Date: 20-Feb-2021 11:21:24 Instrument ID: A10  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

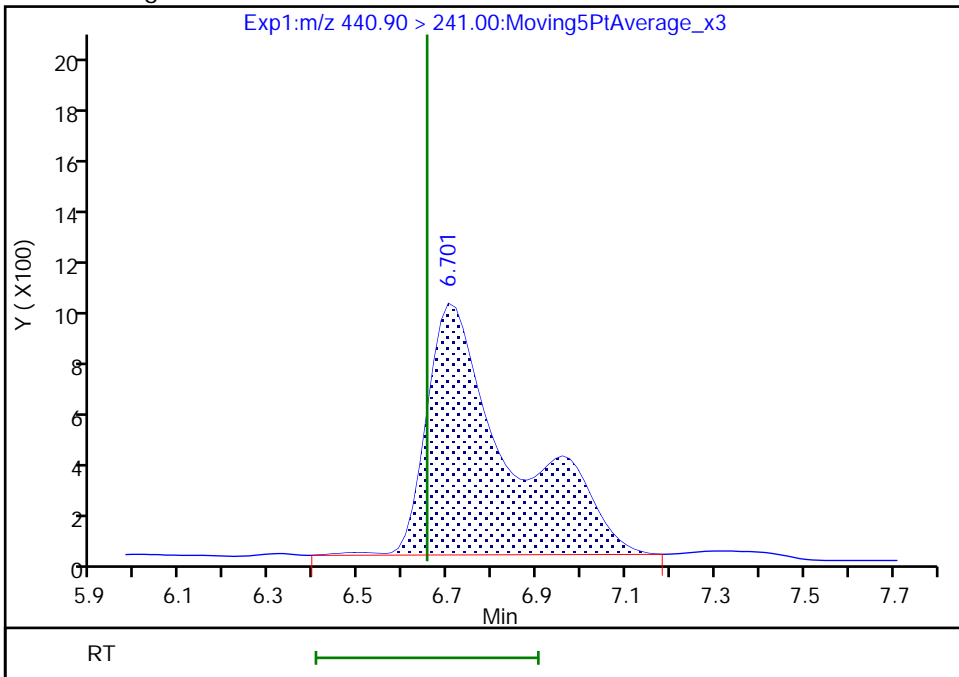
RT: 6.70  
Area: 13422  
Amount: 0.005040  
Amount Units: ng/ml

Processing Integration Results



RT: 6.70  
Area: 12855  
Amount: 0.004733  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:21:11  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

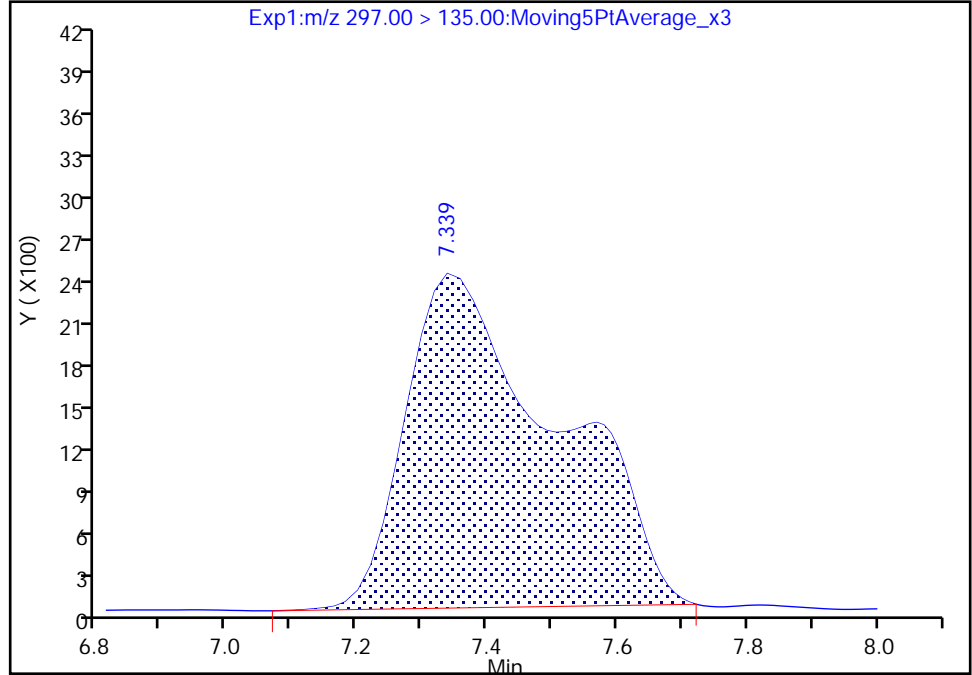
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_004.d  
Injection Date: 20-Feb-2021 11:21:24 Instrument ID: A10  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 6 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

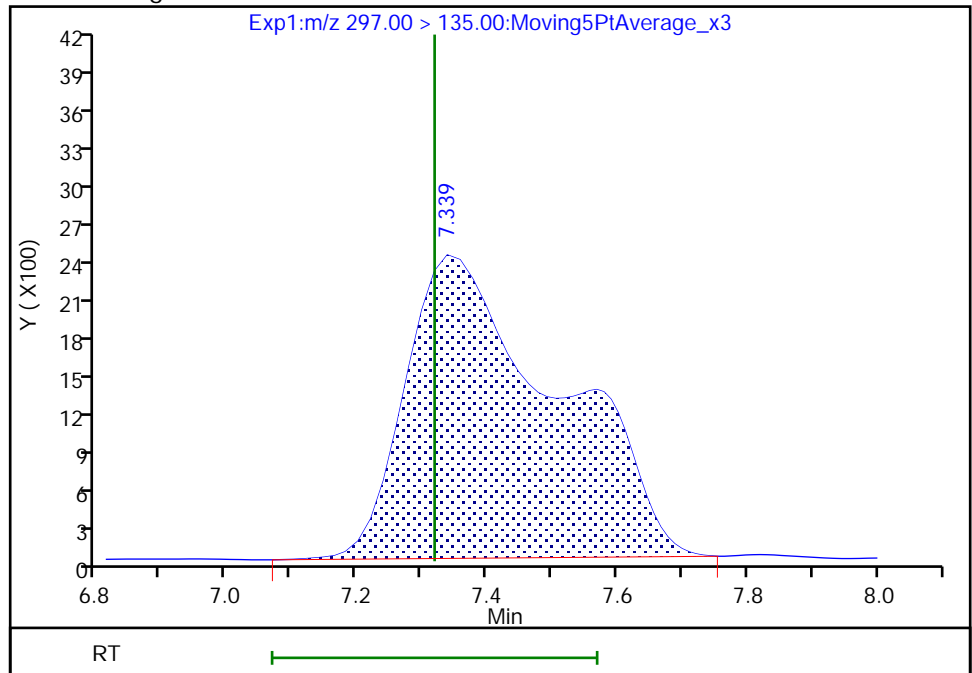
RT: 7.34  
Area: 37952  
Amount: 0.004956  
Amount Units: ng/ml

Processing Integration Results



RT: 7.34  
Area: 38344  
Amount: 0.005002  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:05:07  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_005.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 20-Feb-2021 11:38:51 ALS Bottle#: 7 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 4 (45)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:37 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 13:22:07

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.060	2.875	0.185		101876	0.0102		102	7.9	M
2 R-EVE										M
405.00 > 217.00	6.653	6.560	0.093		40915	0.0099		99.5	1074	M
3 R-PSDA										
440.90 > 241.00	6.733	6.653	0.080		28498	0.0105		105	775	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.813	6.749	0.064		84034	0.0106		106	1808	
23 PMPA										
229.00 > 185.00	6.797	6.765	0.032		158466	0.0105		105	75.7	
5 NVHOS										M
297.00 > 135.00	7.358	7.319	0.039		76344	0.0100		99.6	1586	M
6 PFO2HxA										
245.00 > 85.00	7.945	7.932	0.013		98961	0.0105		105	1286	
22 PEPA										
278.90 > 234.90	8.583	8.584	-0.001		59033	0.0106		106	101	
7 PES										
314.90 > 135.00	8.903	8.908	-0.005		473943	0.0101		101	18163	
8 PFECA B										
295.00 > 201.00	9.133	9.139	-0.006		70172	0.0108		108	2477	
9 PFO3OA										
310.90 > 85.00	9.366	9.396	-0.030		65562	0.0109		109	710	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.475	9.486	-0.011		1446250	0.2614		105	57580	
11 HPFO-DA										
285.00 > 169.00	9.475	9.486	-0.011	1.000	62660	0.0099		99.5	2490	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.836	9.847	-0.011		643460	0.0102		102	20149	
13 Hydro-EVE Acid										
427.00 > 282.90	9.893	9.904	-0.011		813726	0.0103		103	12754	
D 14 13C4 PFHpA										
367.00 > 322.00	9.893	9.904	-0.011		6693137	0.2634		105	141513	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.893	9.904	-0.011	1.000	303706	0.0103	Target=0.00	103	1672	
363.00 > 169.00	9.893	9.904	-0.011	1.000	126499		2.40(0.00-0.00)	103	5377	
15 Hydro-PS Acid										
463.00 > 262.90	9.929	9.939	-0.010		262879	0.0103		103	5713	
17 PFECA G										
378.90 > 184.90	10.020	10.034	-0.014		95657	0.0102		102	3818	
18 PFO4DA										
376.90 > 85.00	10.149	10.161	-0.012		52408	0.0102		102	322	
19 PS Acid										
443.00 > 146.90	10.230	10.242	-0.012		118980	0.0104		104	3764	
20 EVE Acid										
407.00 > 262.90	10.230	10.260	-0.030		468536	0.0104		104	14670	
21 TAF										
442.90 > 85.00	10.729	10.745	-0.016		40893	0.0109		109	117	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00045

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_005.d

Injection Date: 20-Feb-2021 11:38:51

Instrument ID: A10

Lims ID: IC STD 4

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 7

Worklist Smp#: 5

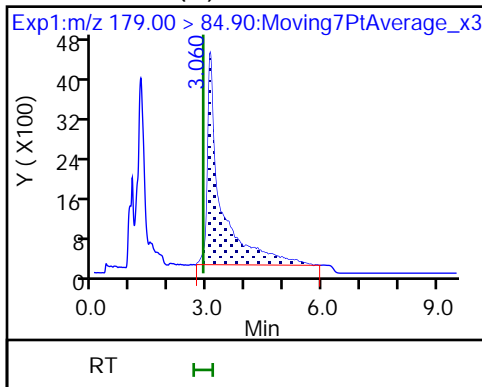
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

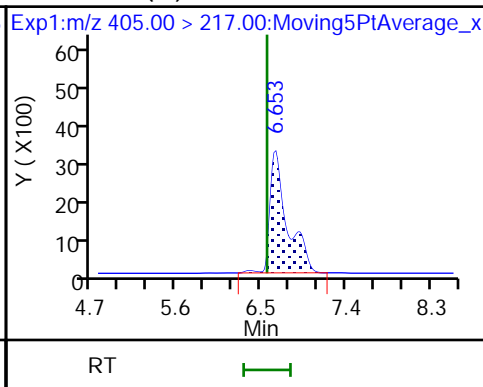
Method: A10\_PFAS\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

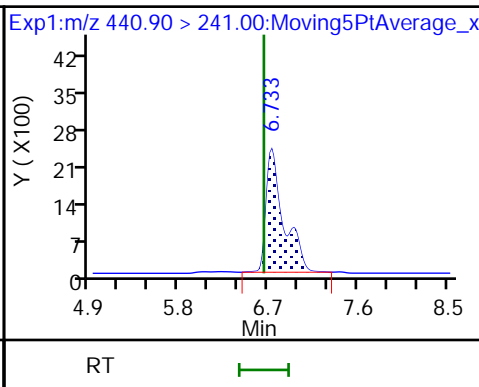
1 PFMOAA (M)



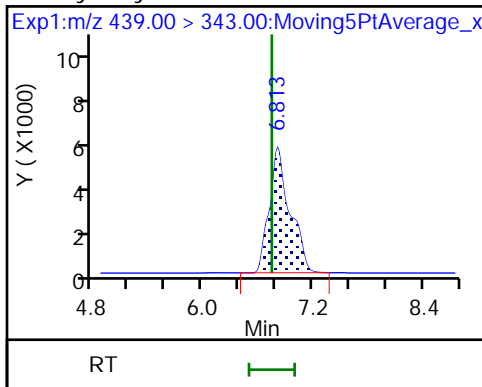
2 R-EVE (M)



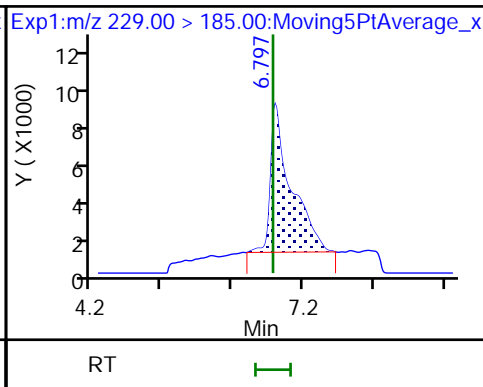
3 R-PSDA



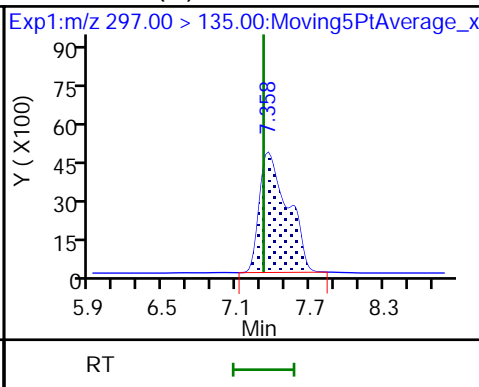
4 Hydrolyzed PSDA



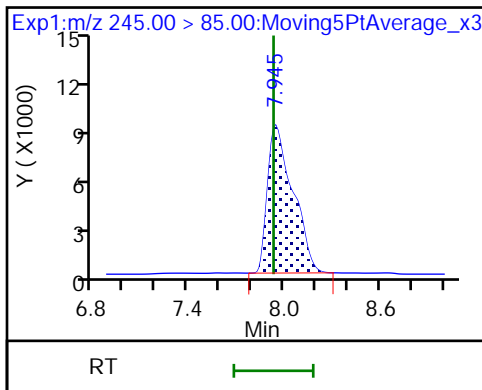
23 PMPA



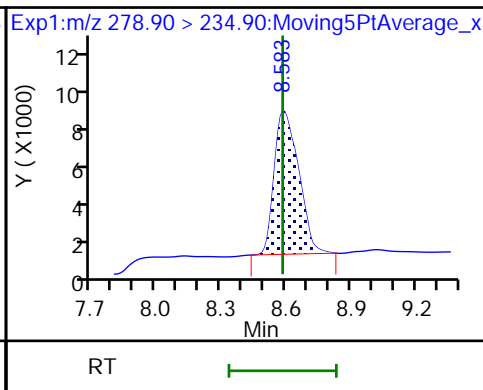
5 NVHOS (M)



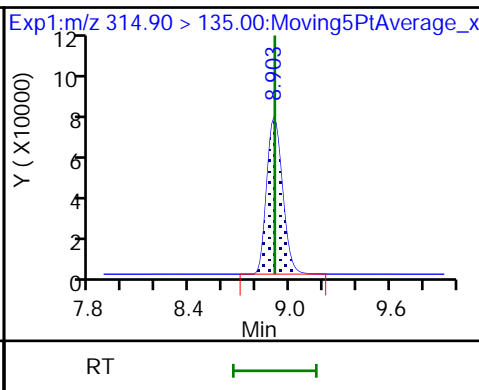
6 PFO2HxA



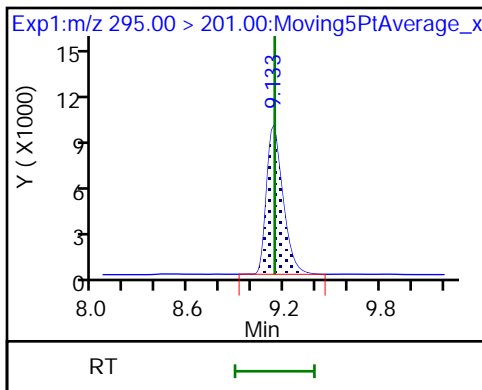
22 PEPA



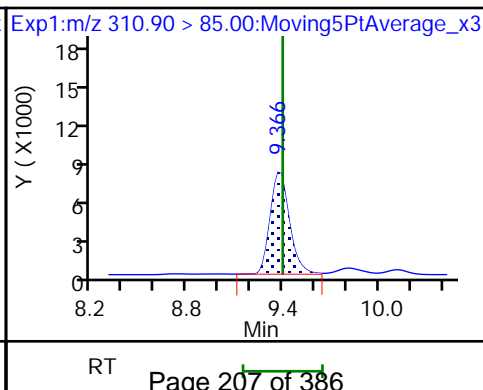
7 PES



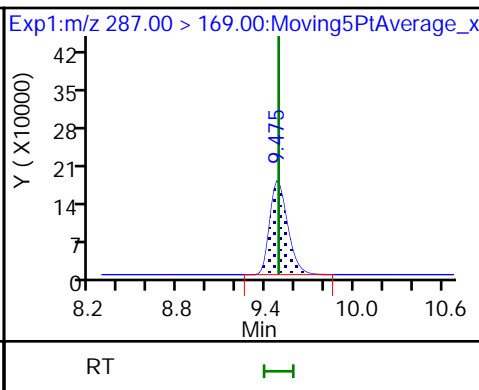
8 PFECA B

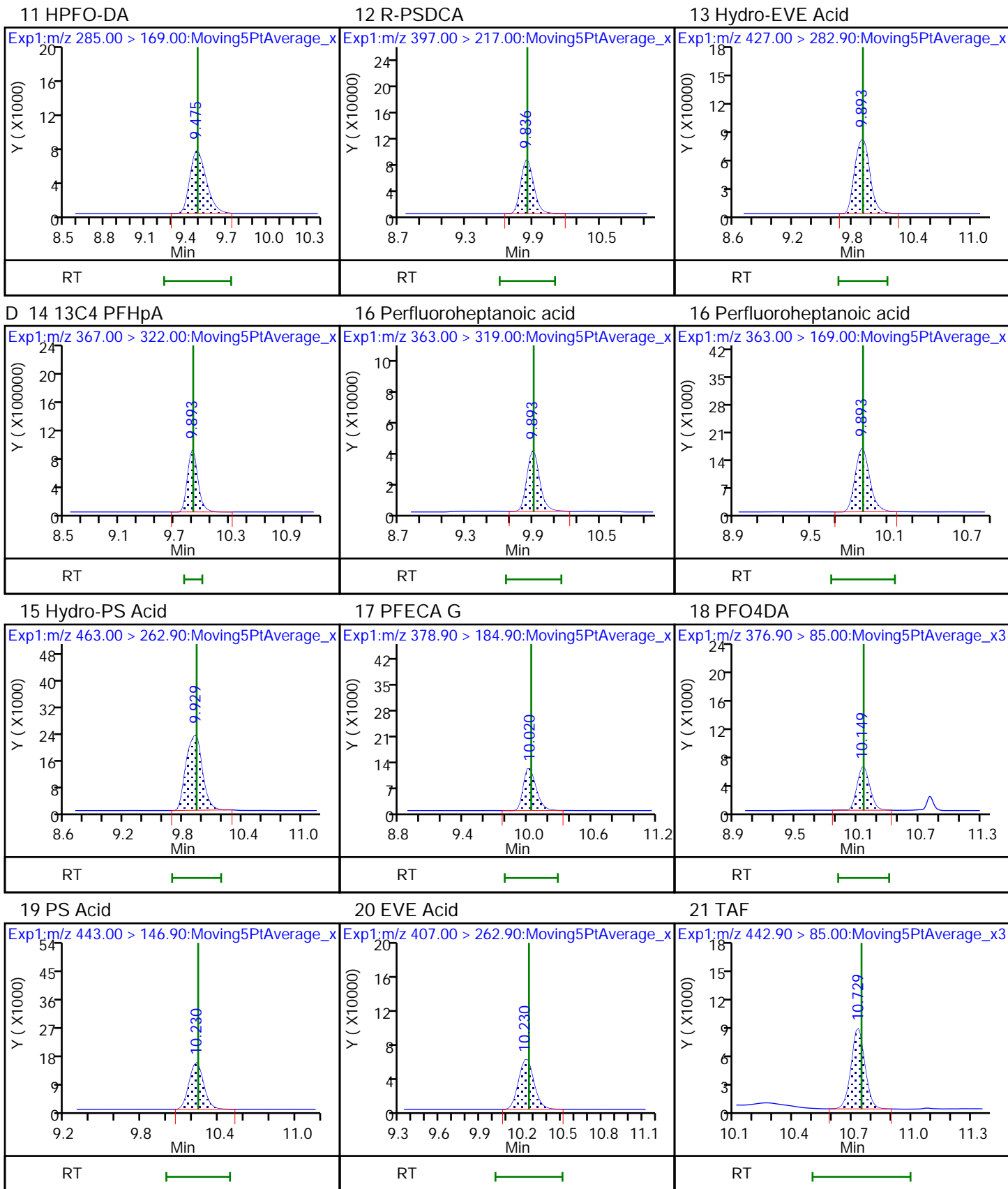


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

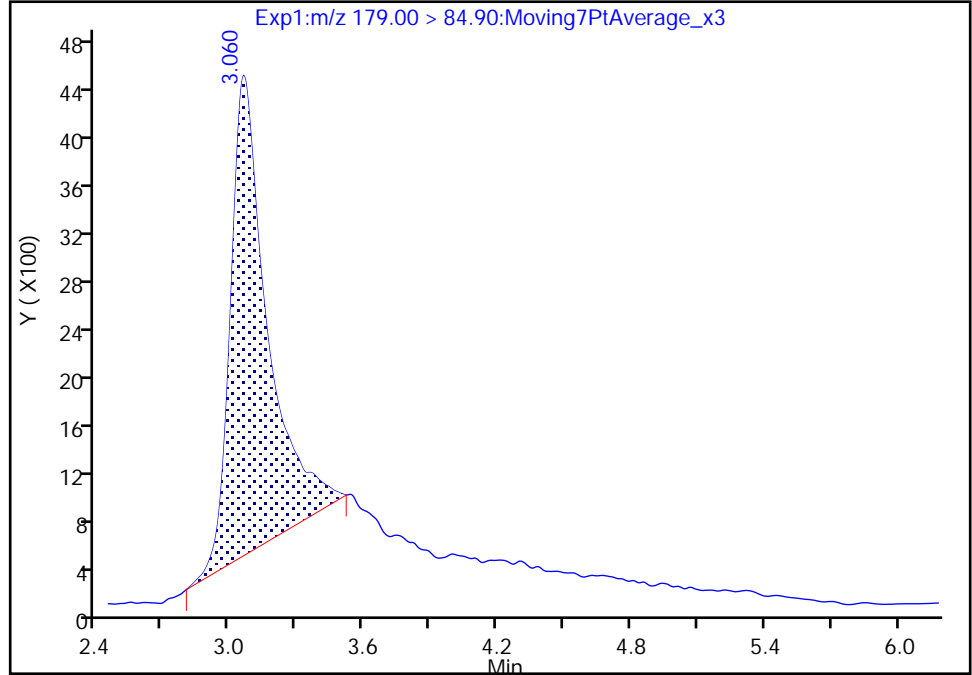
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_005.d  
Injection Date: 20-Feb-2021 11:38:51 Instrument ID: A10  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

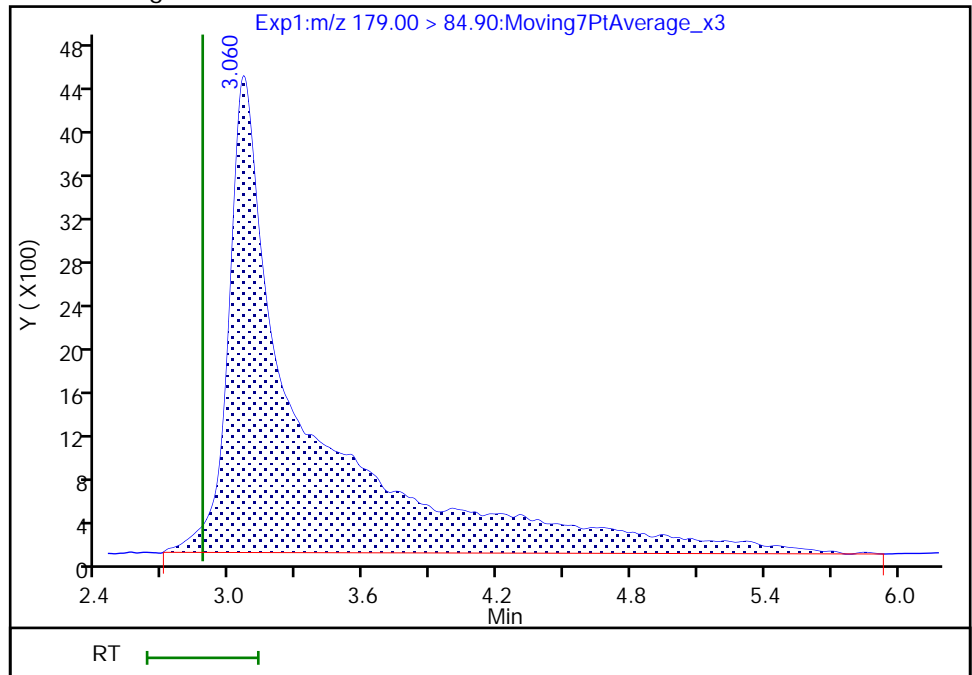
RT: 3.06  
Area: 45006  
Amount: 0.006643  
Amount Units: ng/ml

Processing Integration Results



RT: 3.06  
Area: 101876  
Amount: 0.010175  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:21:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

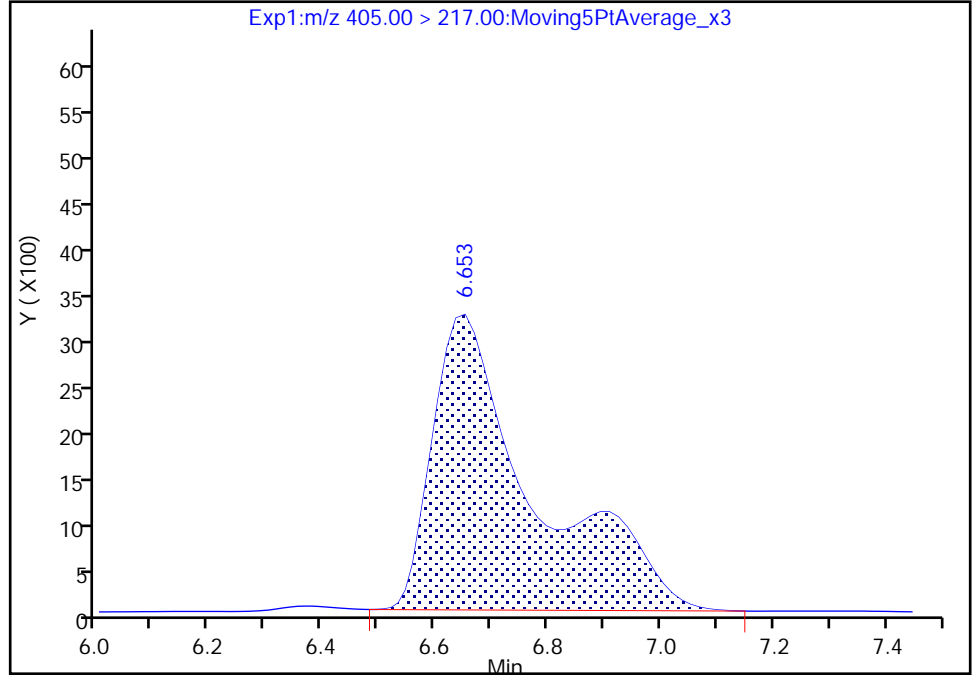
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_005.d  
Injection Date: 20-Feb-2021 11:38:51 Instrument ID: A10  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

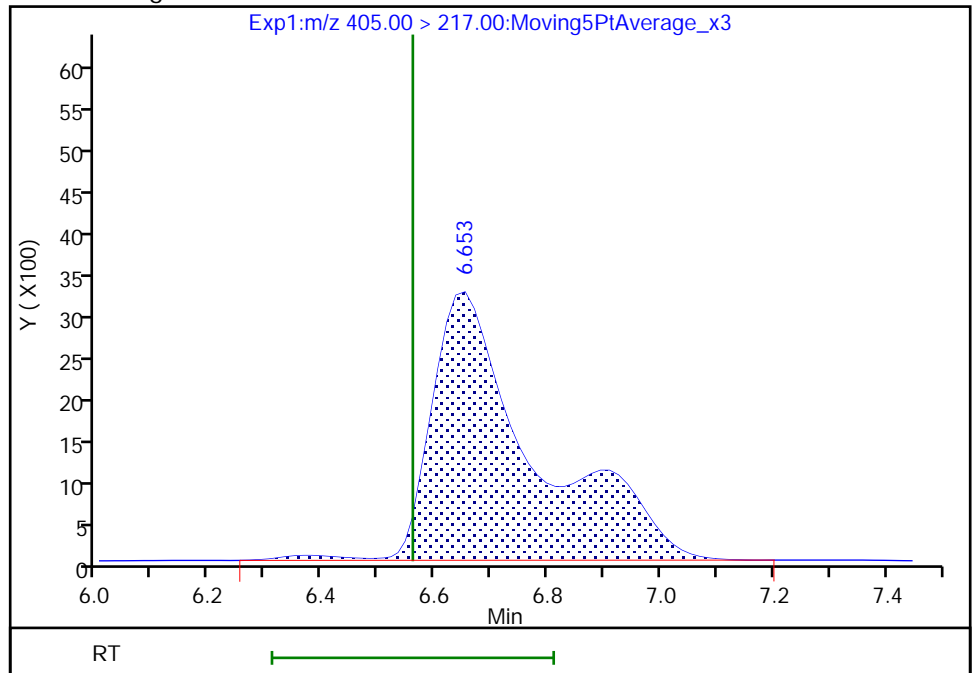
RT: 6.65  
Area: 40071  
Amount: 0.011148  
Amount Units: ng/ml

Processing Integration Results



RT: 6.65  
Area: 40915  
Amount: 0.009946  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:21:47  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

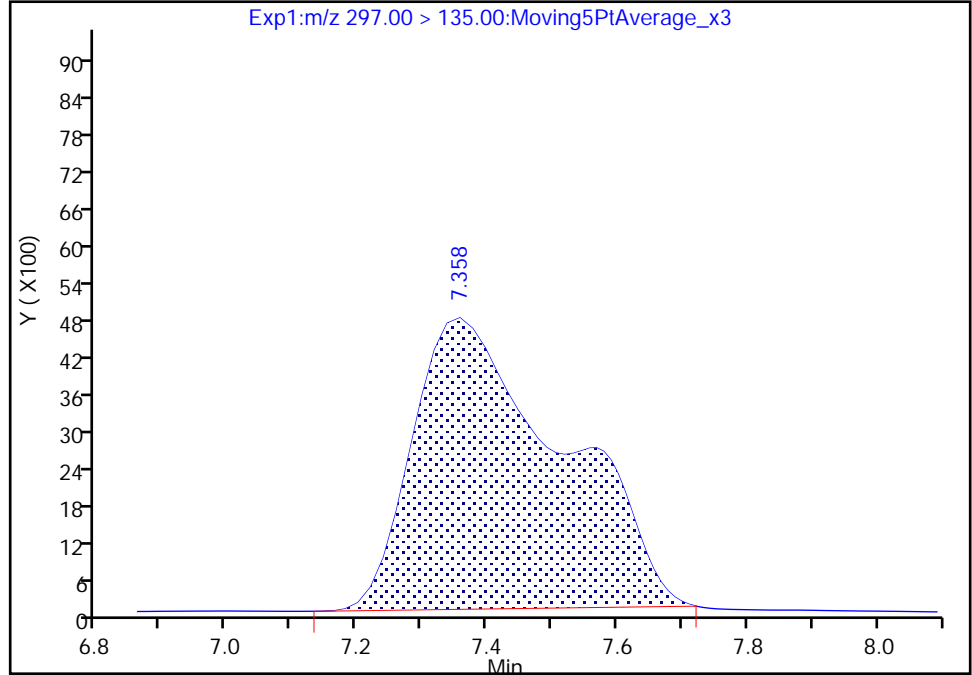
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_005.d  
Injection Date: 20-Feb-2021 11:38:51 Instrument ID: A10  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 7 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

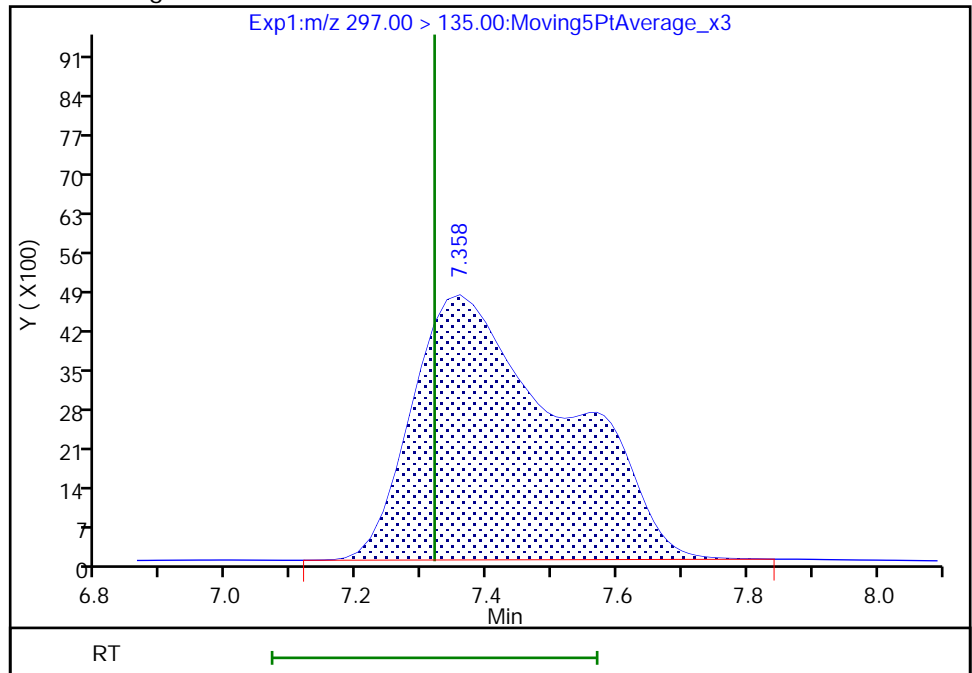
RT: 7.36  
Area: 75038  
Amount: 0.011541  
Amount Units: ng/ml

Processing Integration Results



RT: 7.36  
Area: 76344  
Amount: 0.009958  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:21:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_006.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 20-Feb-2021 11:56:20 ALS Bottle#: 8 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 5 (55)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:38 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 13:22:55

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.828	2.875	-0.047		268916	0.0269		107	25.2	M
2 R-EVE										M
405.00 > 217.00	6.535	6.560	-0.025		106525	0.0259		104	2650	M
3 R-PSDA										
440.90 > 241.00	6.621	6.653	-0.032		66816	0.0246		98.4	1548	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.717	6.749	-0.032		204310	0.0257		103	3731	M
23 PMPA										
229.00 > 185.00	6.717	6.765	-0.048		353884	0.0262		105	175	
5 NVHOS										M
297.00 > 135.00	7.299	7.319	-0.020		199020	0.0260		104	3643	M
6 PFO2HxA										
245.00 > 85.00	7.904	7.932	-0.028		244055	0.0260		104	3349	
22 PEPA										
278.90 > 234.90	8.557	8.584	-0.027		149763	0.0268		107	224	
7 PES										
314.90 > 135.00	8.893	8.908	-0.015		1210385	0.0258		103	42089	
8 PFECA B										
295.00 > 201.00	9.110	9.139	-0.029		174522	0.0269		108	5930	
9 PFO3OA										
310.90 > 85.00	9.352	9.396	-0.044		154594	0.0258		103	1851	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.459	9.486	-0.027		1417532	0.2562		102	56503	
11 HPFO-DA										
285.00 > 169.00	9.459	9.486	-0.027	1.000	155445	0.0252		101	6108	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.823	9.847	-0.024		1702126	0.0271		108	52957	
13 Hydro-EVE Acid										
427.00 > 282.90	9.881	9.904	-0.023		2115938	0.0268		107	33106	
D 14 13C4 PFHpA										
367.00 > 322.00	9.881	9.904	-0.023		6667341	0.2624		105	139502	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.881	9.904	-0.023	1.000	728172	0.0255	Target=0.00	102	3976	
363.00 > 169.00	9.881	9.904	-0.023	1.000	311948		2.33(0.00-0.00)	102	9794	
15 Hydro-PS Acid										
463.00 > 262.90	9.919	9.939	-0.020		679393	0.0267		107	19445	
17 PFECA G										
378.90 > 184.90	9.988	10.034	-0.046		254732	0.0271		108	10117	
18 PFO4DA										
376.90 > 85.00	10.138	10.161	-0.023		140410	0.0272		109	957	
19 PS Acid										
443.00 > 146.90	10.220	10.242	-0.022		309833	0.0271		108	9679	
20 EVE Acid										
407.00 > 262.90	10.220	10.260	-0.040		1223375	0.0271		108	38303	
21 TAF										
442.90 > 85.00	10.717	10.745	-0.028		101859	0.0272		109	270	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00055

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_006.d

Injection Date: 20-Feb-2021 11:56:20

Instrument ID: A10

Lims ID: IC STD 5

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 8

Worklist Smp#: 6

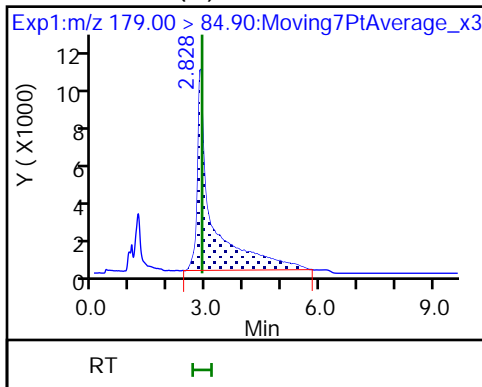
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

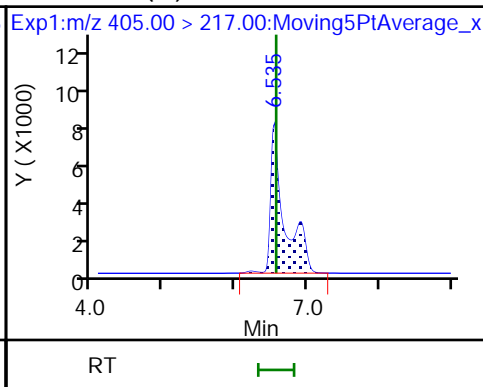
Method: A10\_PFAAS\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

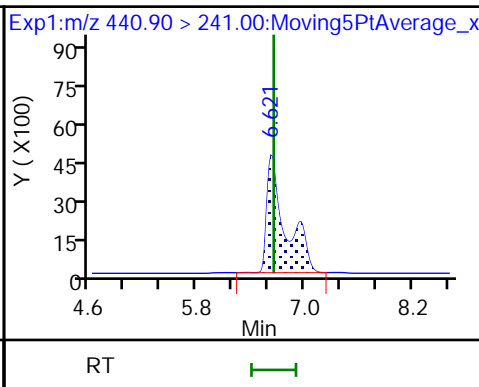
1 PFMOAA (M)



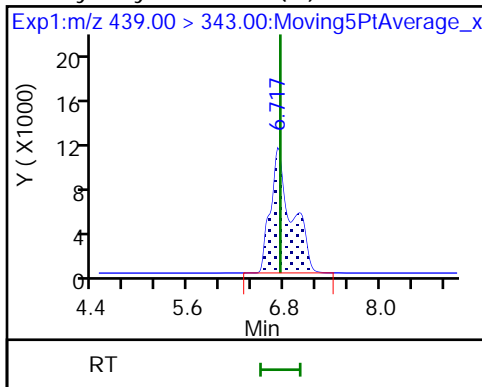
2 R-EVE (M)



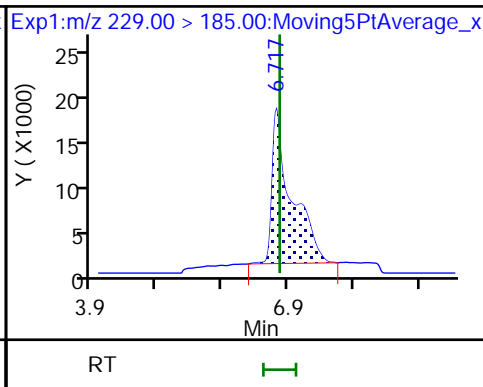
3 R-PSDA



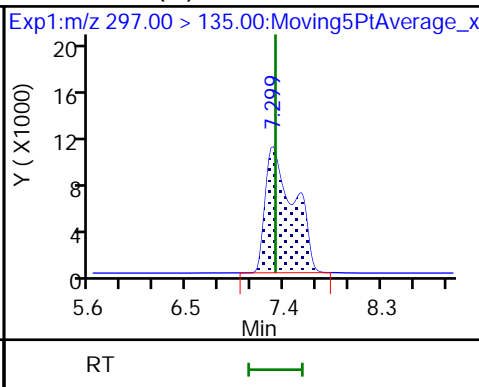
4 Hydrolyzed PSDA (M)



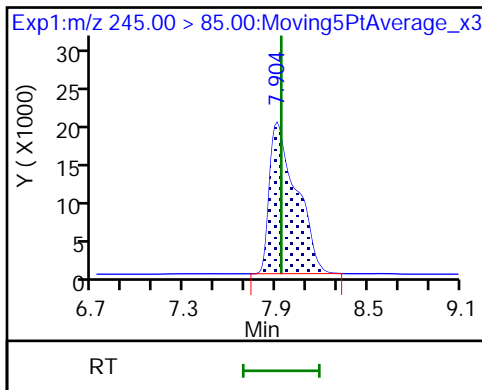
23 PMPA



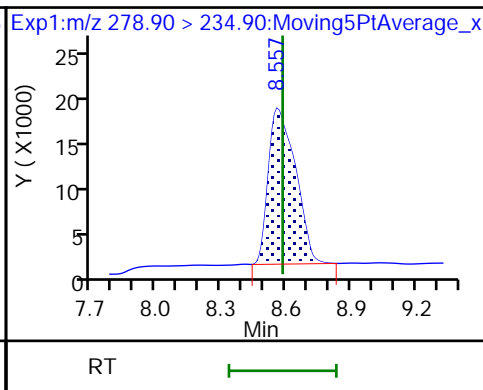
5 NVHOS (M)



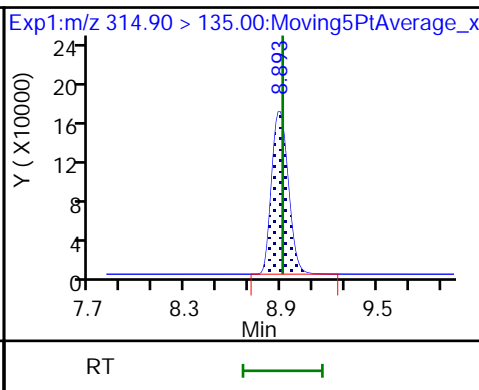
6 PFO2HxA



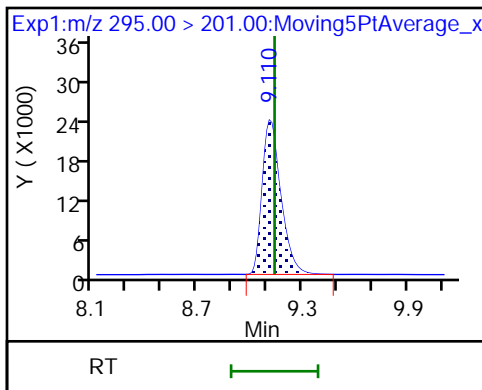
22 PEPA



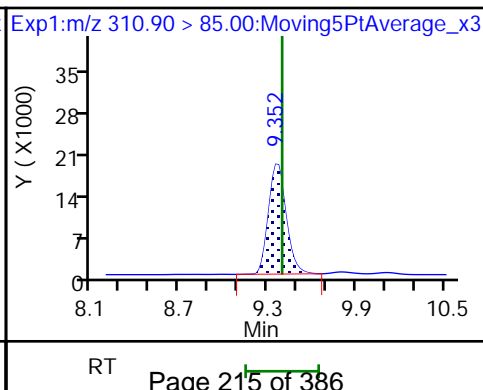
7 PES



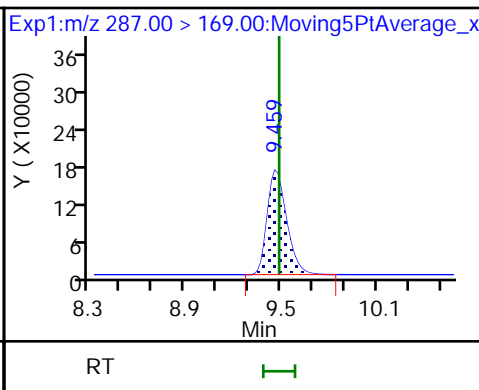
8 PFECA B

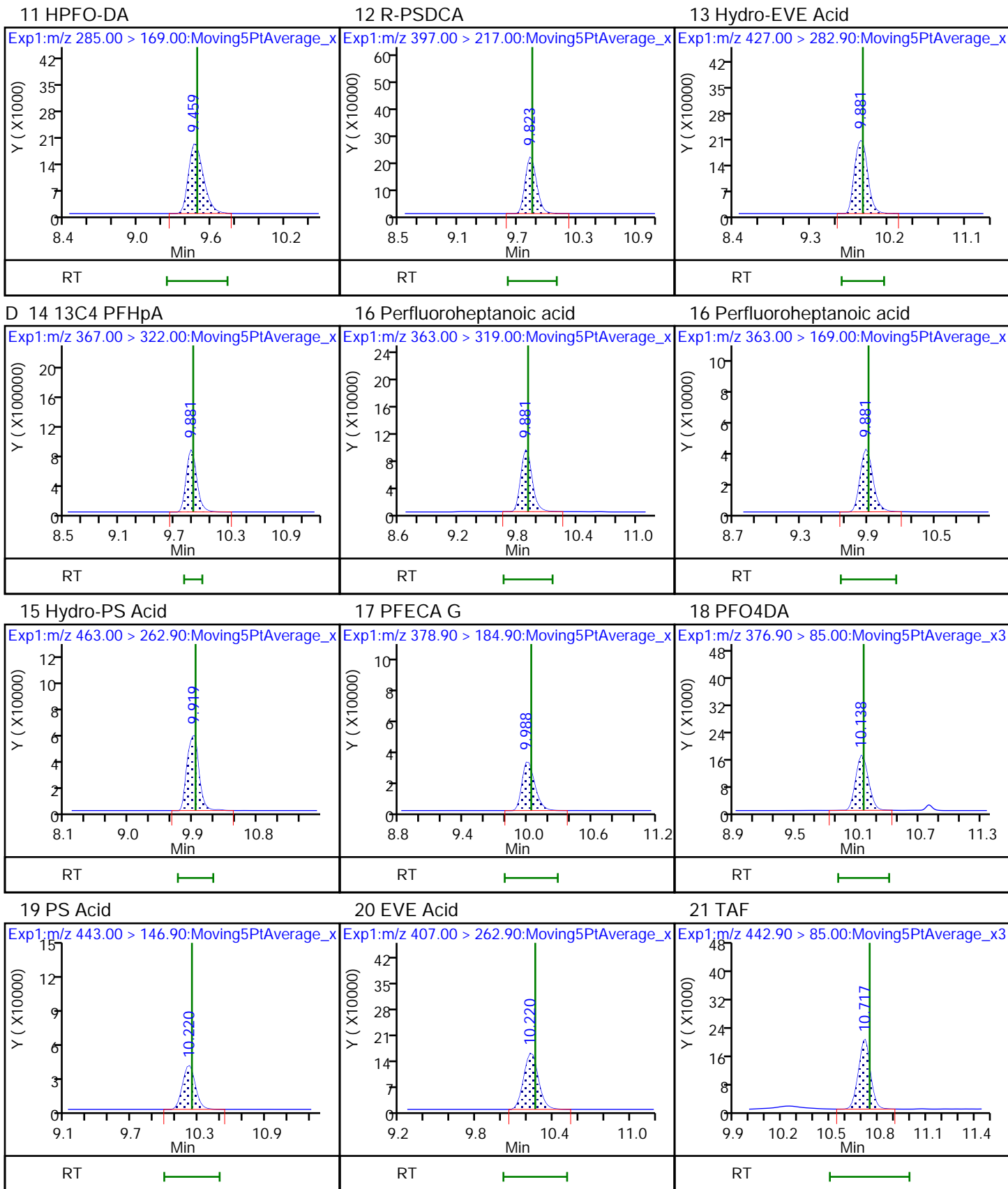


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

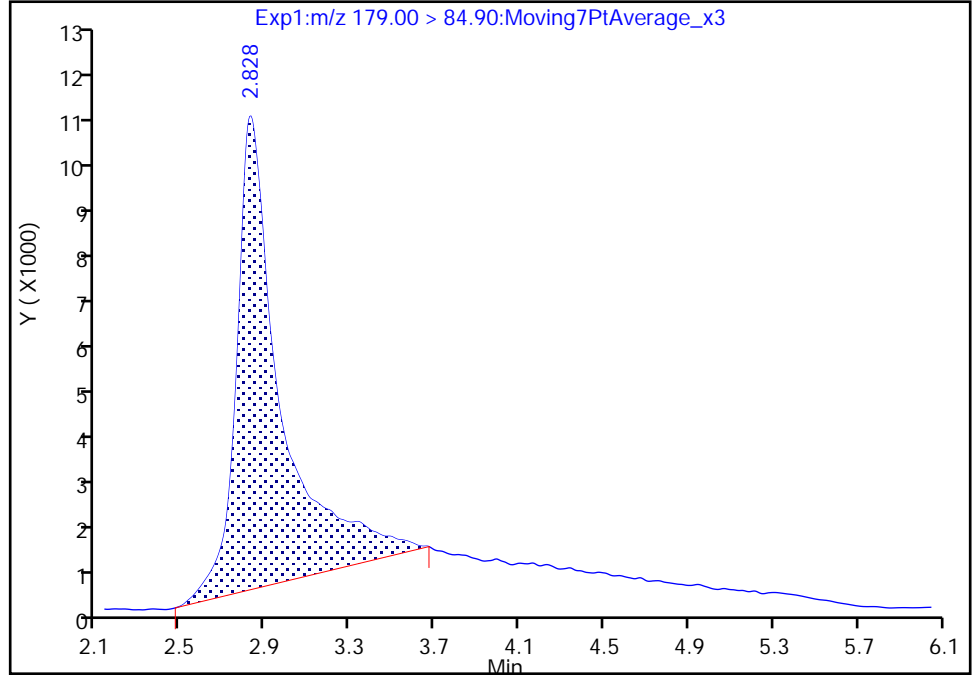
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Injection Date: 20-Feb-2021 11:56:20 Instrument ID: A10  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

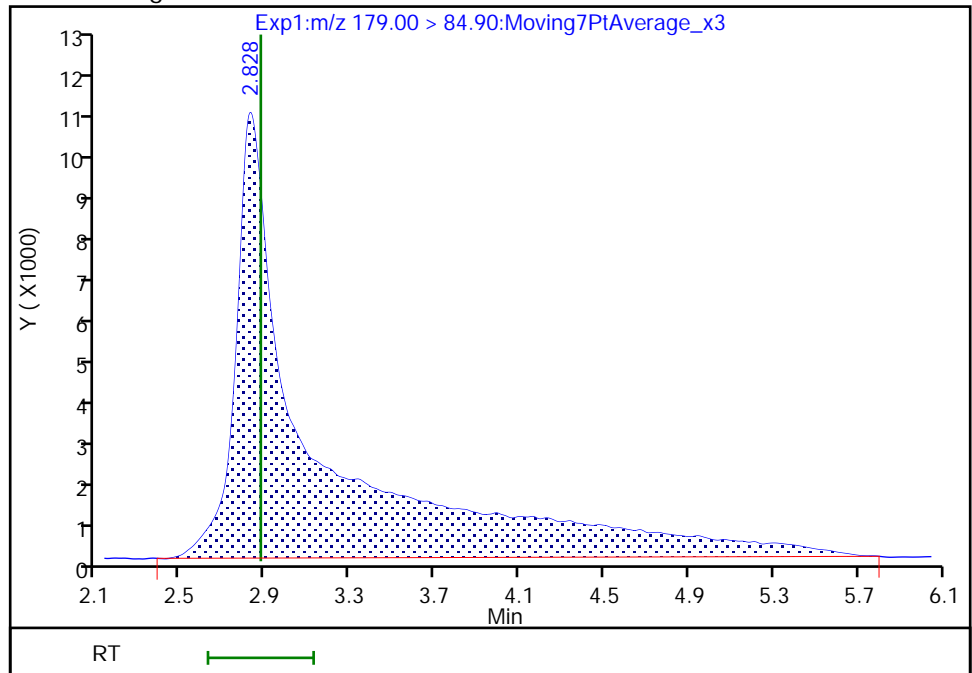
RT: 2.83  
Area: 146752  
Amount: 0.019341  
Amount Units: ng/ml

Processing Integration Results



RT: 2.83  
Area: 268916  
Amount: 0.026859  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:22:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

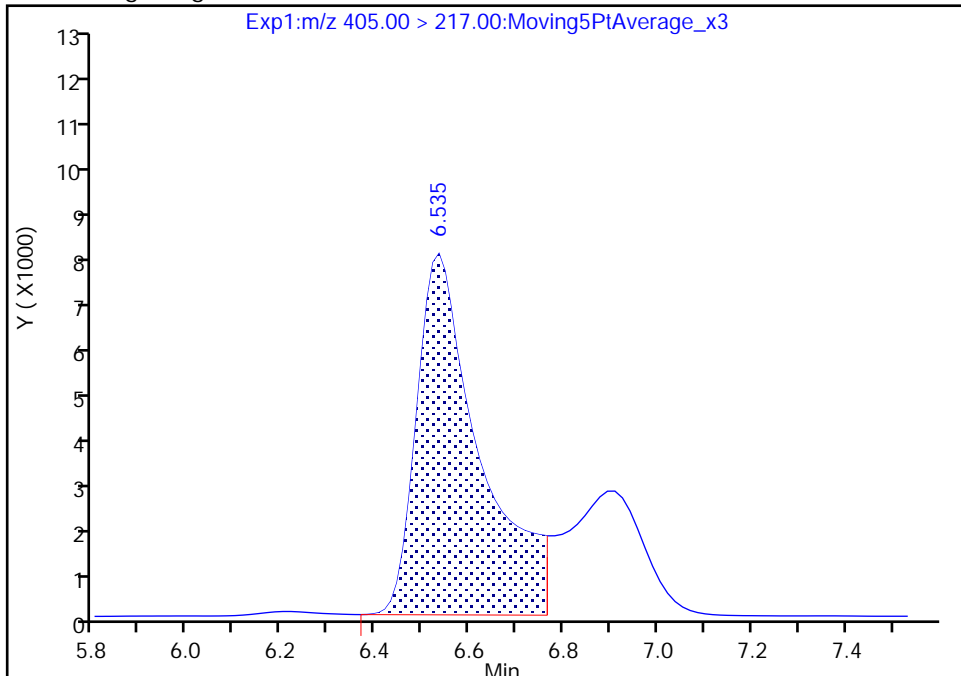
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Injection Date: 20-Feb-2021 11:56:20 Instrument ID: A10  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

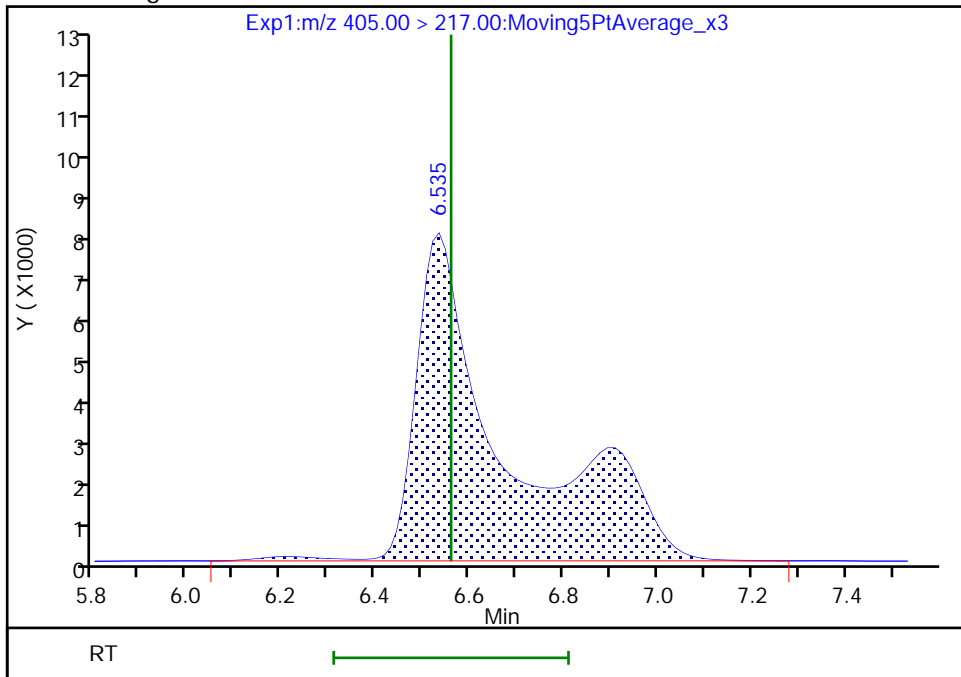
RT: 6.53  
Area: 73769  
Amount: 0.020455  
Amount Units: ng/ml

Processing Integration Results



RT: 6.53  
Area: 106525  
Amount: 0.025894  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:22:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 219 of 386

Eurofins TestAmerica, Sacramento

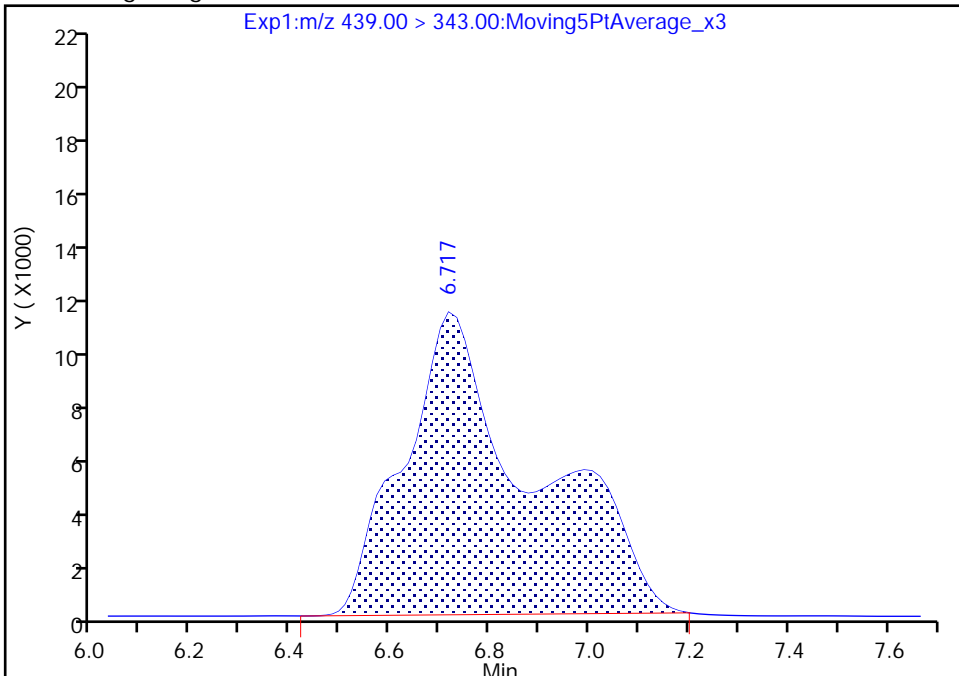
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Injection Date: 20-Feb-2021 11:56:20 Instrument ID: A10  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

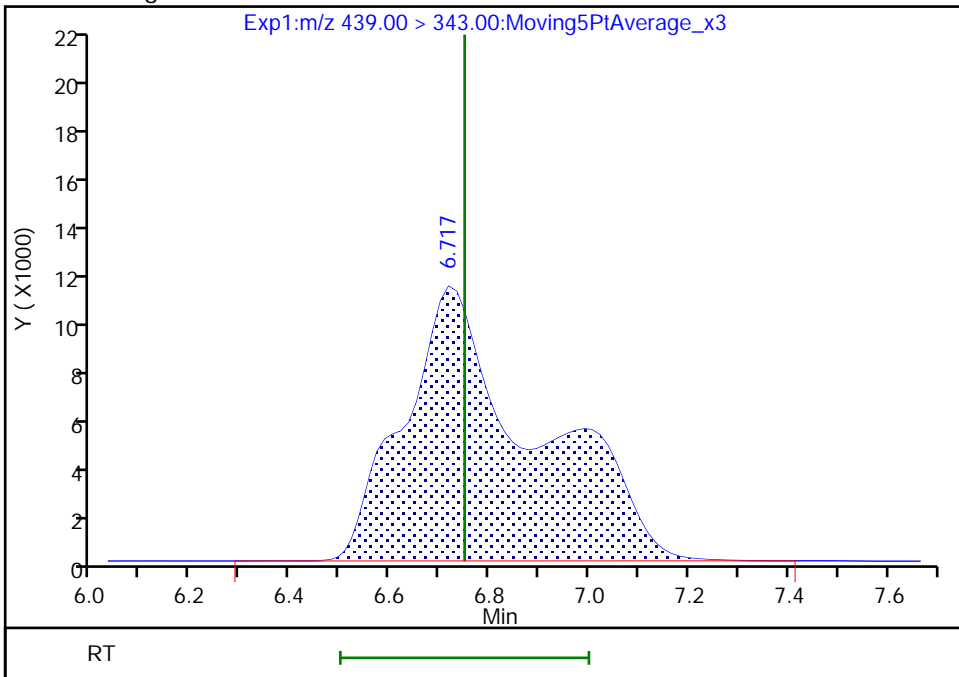
RT: 6.72  
Area: 201288  
Amount: 0.027276  
Amount Units: ng/ml

Processing Integration Results



RT: 6.72  
Area: 204310  
Amount: 0.025726  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:22:33  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

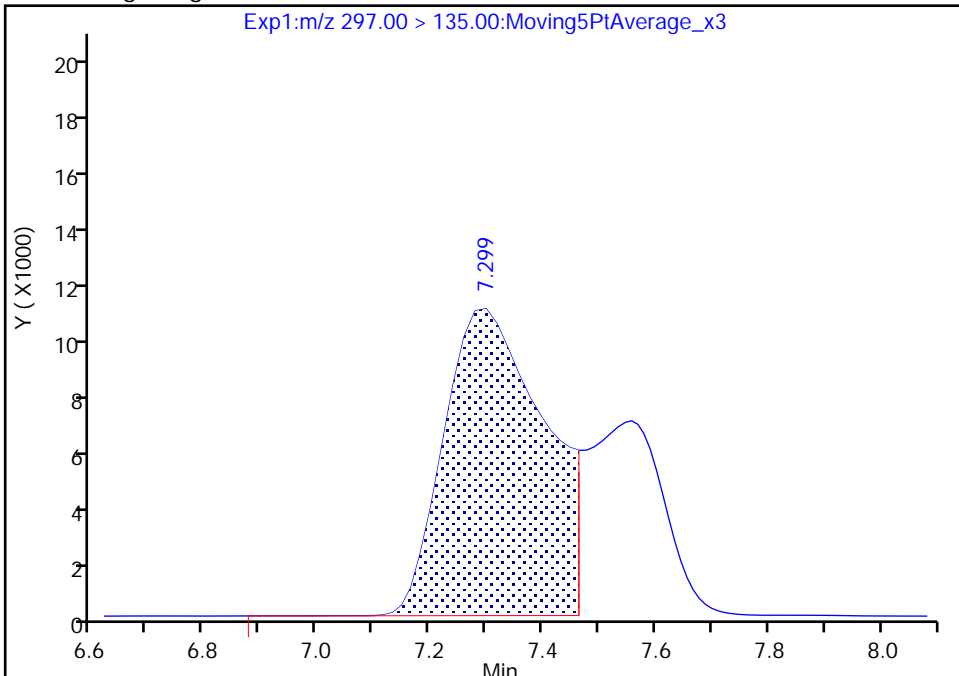
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Injection Date: 20-Feb-2021 11:56:20 Instrument ID: A10  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 8 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

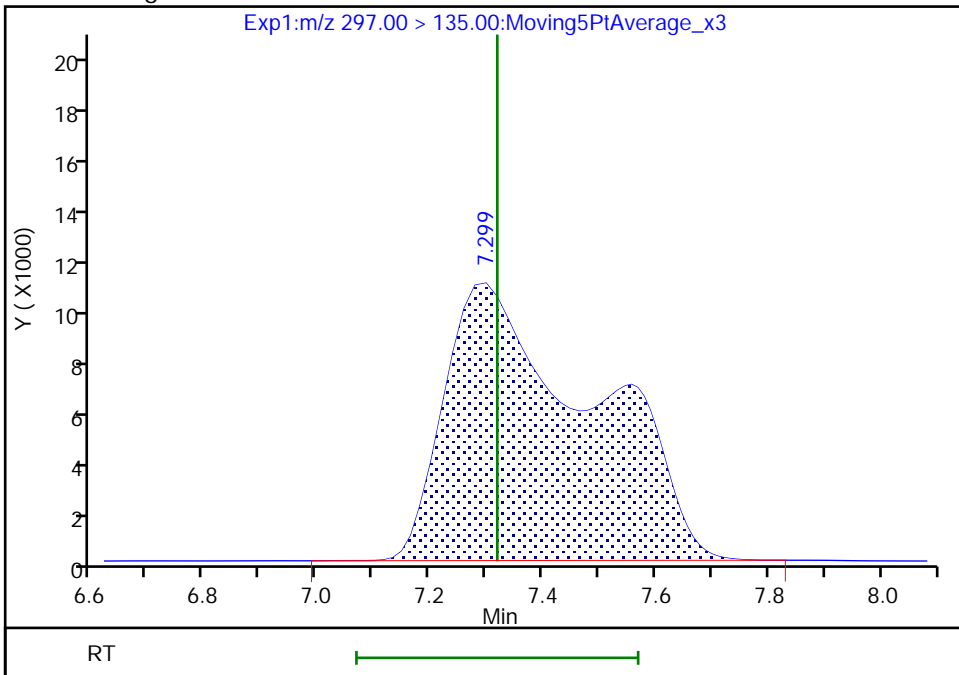
RT: 7.30  
Area: 134201  
Amount: 0.020581  
Amount Units: ng/ml

Processing Integration Results



RT: 7.30  
Area: 199020  
Amount: 0.025961  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:22:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 221 of 386

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_007.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 20-Feb-2021 12:13:47 ALS Bottle#: 9 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 6 (87)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:40 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 13:23:28

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.958	2.875	0.083		481728	0.0481		96.2	43.1	M
2 R-EVE										M
405.00 > 217.00	6.602	6.560	0.042		184992	0.0450		89.9	4372	M
3 R-PSDA										
440.90 > 241.00	6.683	6.653	0.029		121013	0.0446		89.1	2857	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.779	6.749	0.030		354939	0.0447		89.4	6808	
23 PMPA										
229.00 > 185.00	6.747	6.765	-0.018		602430	0.0462		92.3	332	
5 NVHOS										M
297.00 > 135.00	7.317	7.319	-0.002		356773	0.0465		93.1	6228	M
6 PFO2HxA										
245.00 > 85.00	7.915	7.932	-0.017		431412	0.0459		91.9	5499	
22 PEPA										
278.90 > 234.90	8.566	8.584	-0.018		269418	0.0482		96.4	415	
7 PES										
314.90 > 135.00	8.892	8.908	-0.016		2171042	0.0462		92.5	76223	
8 PFECA B										
295.00 > 201.00	9.121	9.139	-0.018		311663	0.0480		96.0	10646	
9 PFO3OA										
310.90 > 85.00	9.368	9.396	-0.028		278364	0.0464		92.9	5438	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.459	9.486	-0.028		1316826	0.2380		95.2	52165	
11 HPFO-DA										
285.00 > 169.00	9.477	9.486	-0.009	1.002	277056	0.0483		96.6	10780	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.823	9.847	-0.024		2921351	0.0465		92.9	72720	
13 Hydro-EVE Acid										
427.00 > 282.90	9.880	9.904	-0.024		3722867	0.0471		94.3	58360	
D 14 13C4 PFHpA										
367.00 > 322.00	9.880	9.904	-0.024		6288217	0.2475		99.0	131243	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.880	9.904	-0.024	1.000	1291921	0.0483	Target=0.00	96.7	7358	
363.00 > 169.00	9.880	9.904	-0.024	1.000	549634		2.35(0.00-0.00)	96.7	17284	
15 Hydro-PS Acid										
463.00 > 262.90	9.918	9.939	-0.021		1223808	0.0482		96.3	34846	
17 PFECA G										
378.90 > 184.90	9.987	10.034	-0.047		447155	0.0476		95.2	17857	
18 PFO4DA										
376.90 > 85.00	10.138	10.161	-0.023		247439	0.0480		95.9	2386	
19 PS Acid										
443.00 > 146.90	10.220	10.242	-0.022		557182	0.0487		97.5	17249	
20 EVE Acid										
407.00 > 262.90	10.220	10.260	-0.040		2167729	0.0480		96.0	54333	
21 TAF										
442.90 > 85.00	10.707	10.745	-0.038		186602	0.0498		99.5	464	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00087

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_007.d

Injection Date: 20-Feb-2021 12:13:47

Instrument ID: A10

Lims ID: IC STD 6

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 9

Worklist Smp#: 7

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

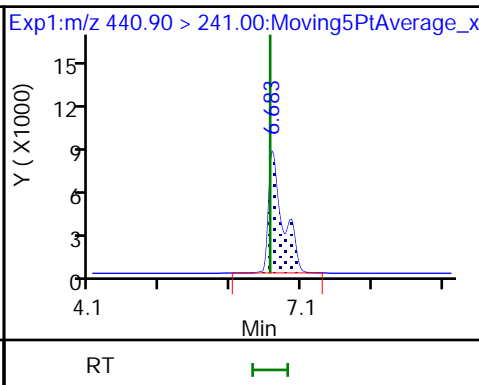
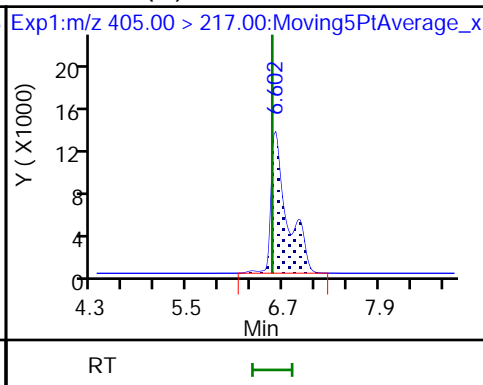
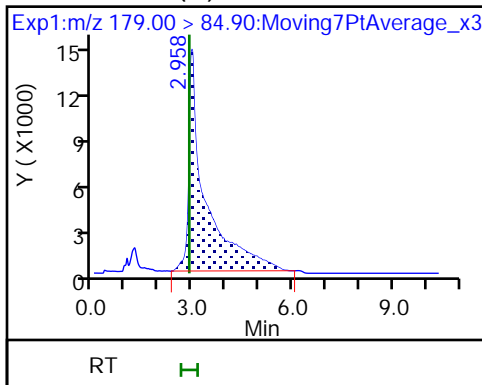
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

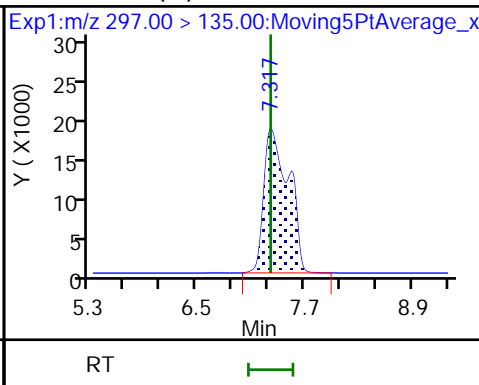
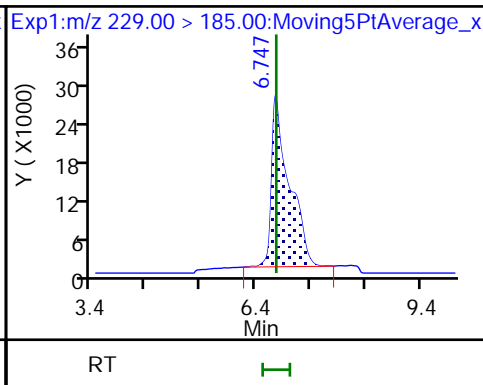
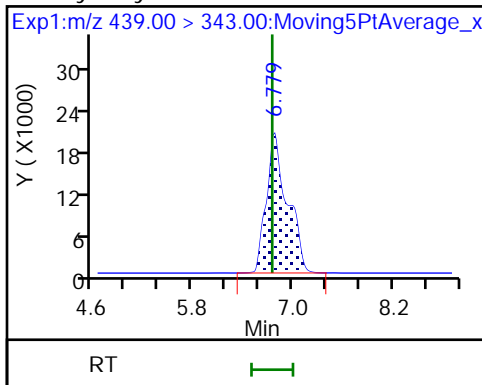
3 R-PSDA



4 Hydrolyzed PSDA

23 PMPA

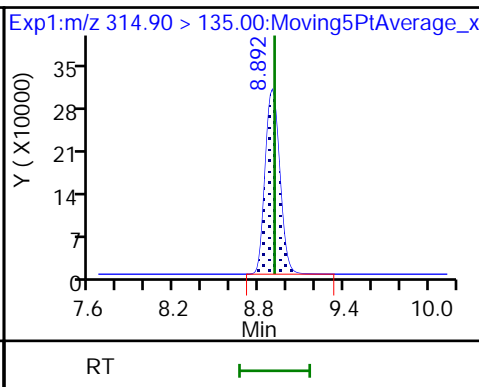
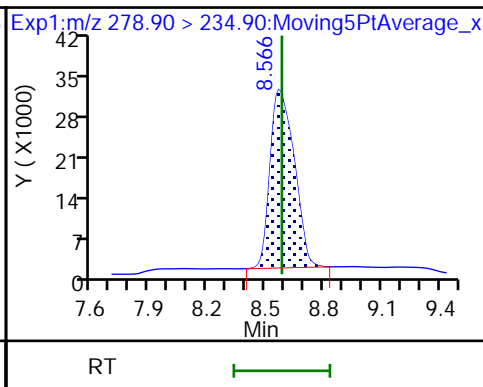
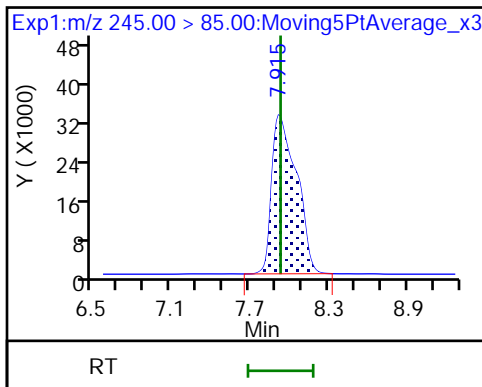
5 NVHOS (M)



6 PFO2HxA

22 PEPA

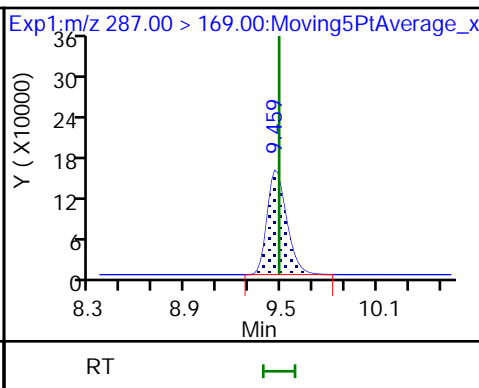
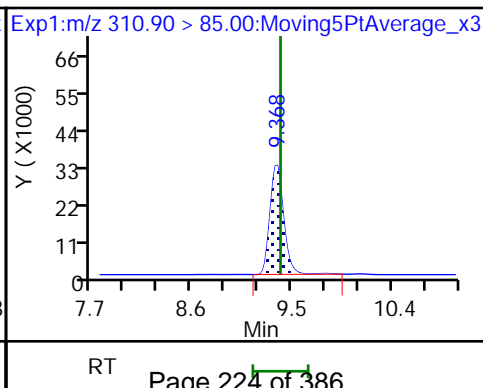
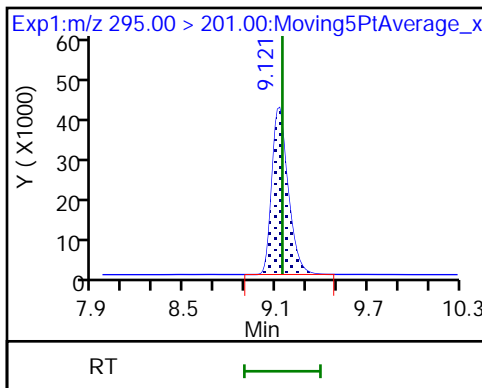
7 PES

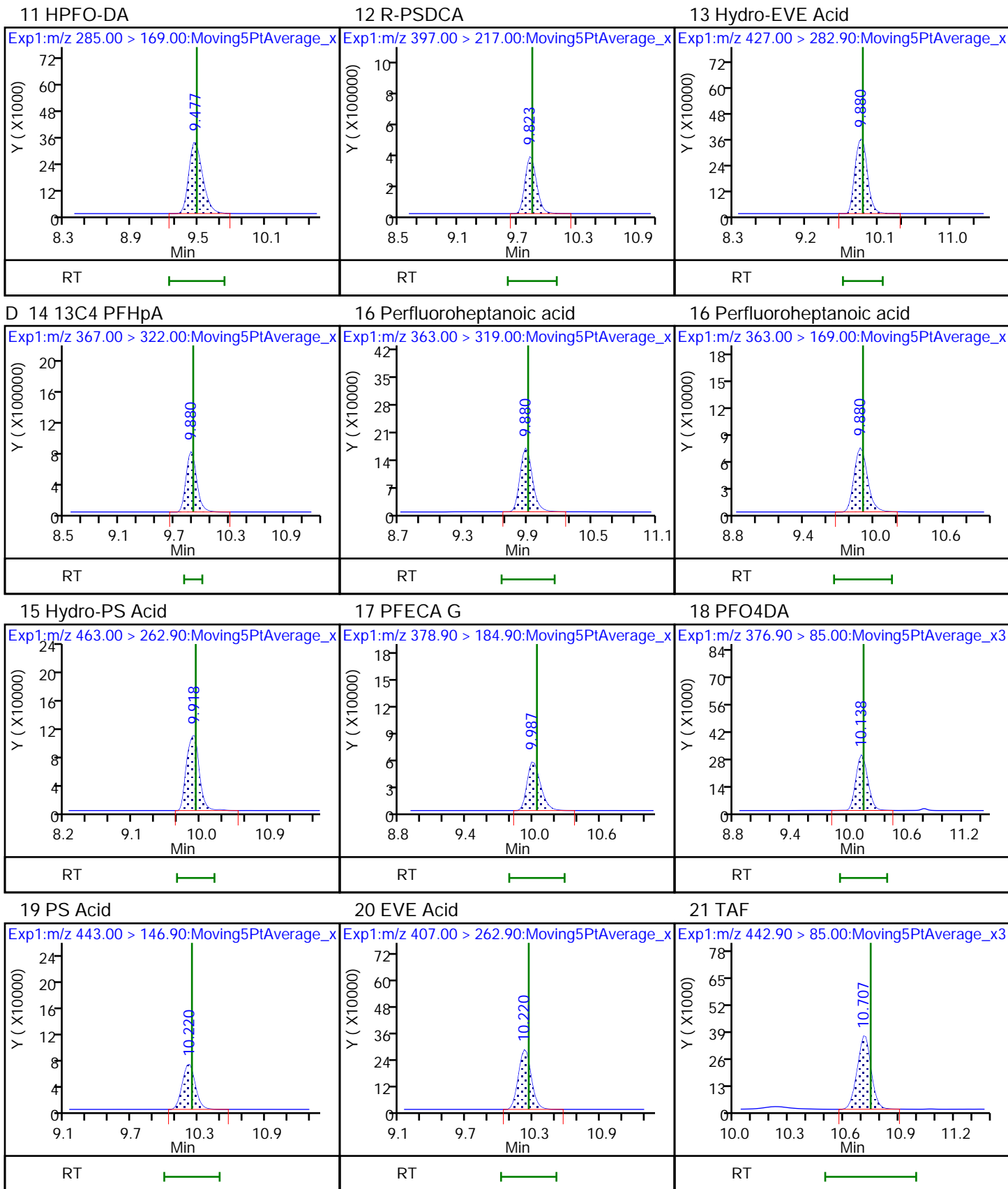


8 PFECAB

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

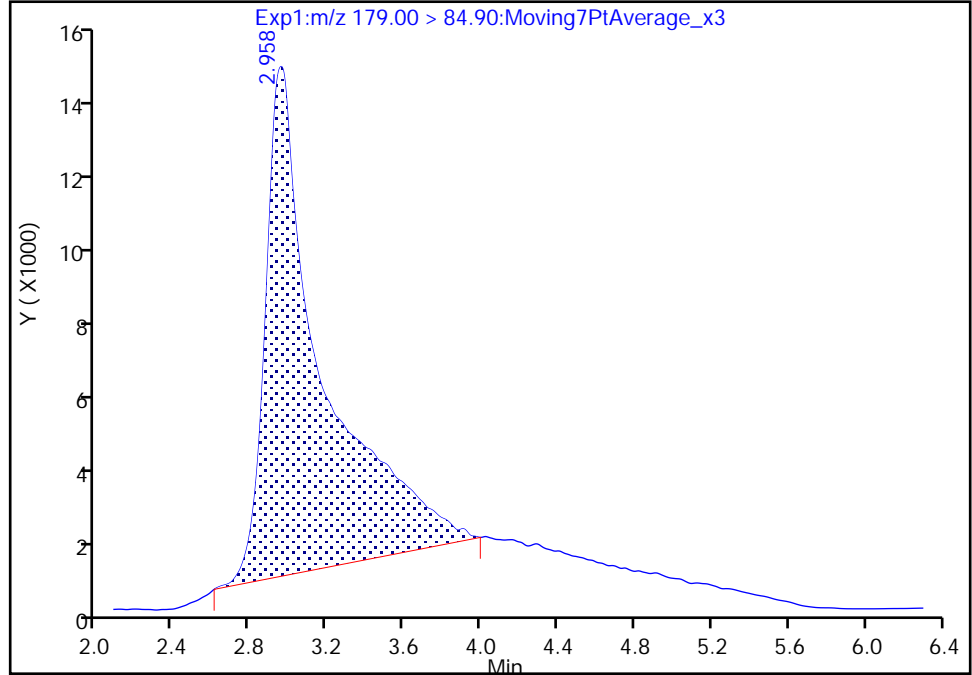
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_007.d  
Injection Date: 20-Feb-2021 12:13:47 Instrument ID: A10  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

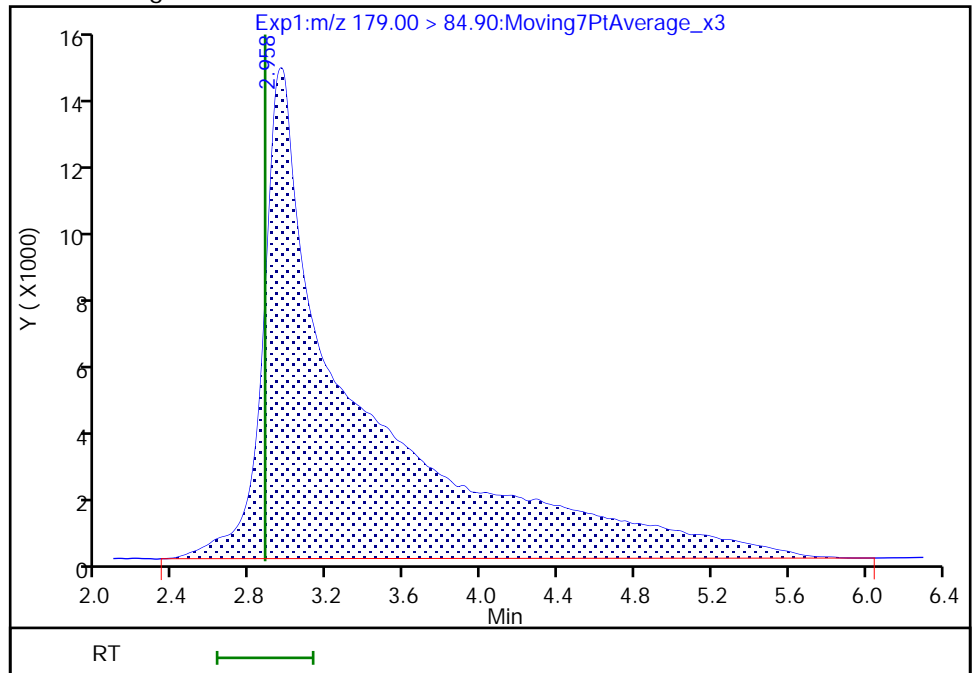
RT: 2.96  
Area: 277204  
Amount: 0.033456  
Amount Units: ng/ml

Processing Integration Results



RT: 2.96  
Area: 481728  
Amount: 0.048114  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:23:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

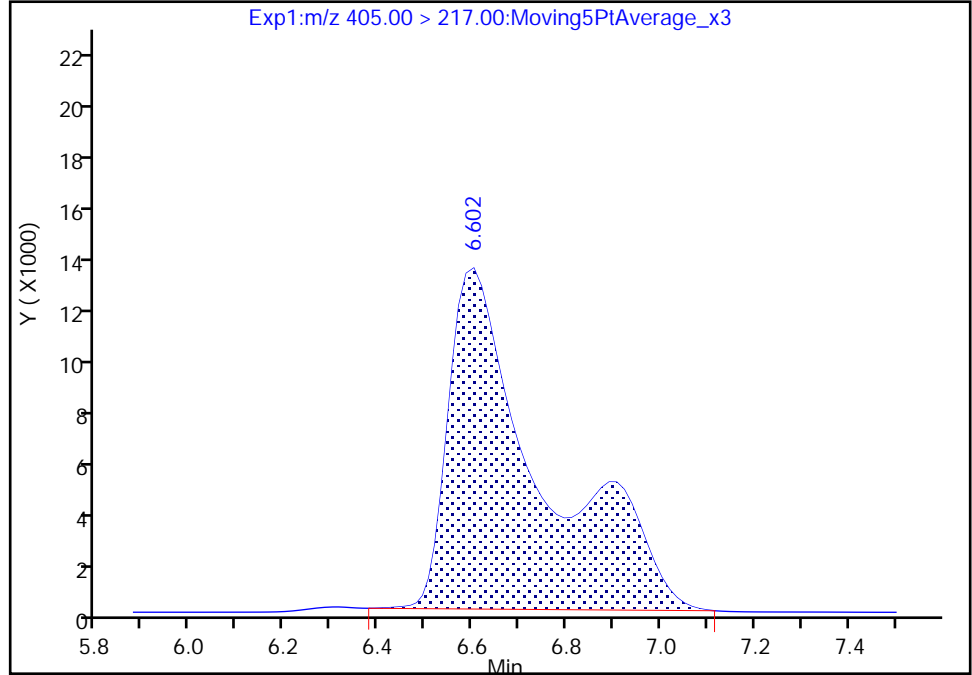
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Injection Date: 20-Feb-2021 12:13:47 Instrument ID: A10  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

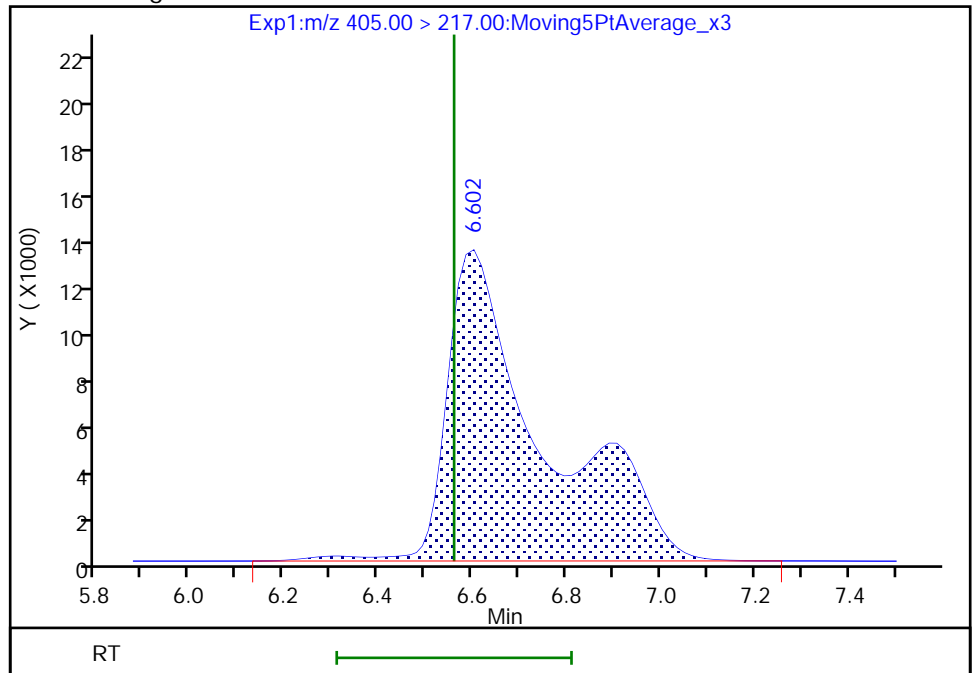
RT: 6.60  
Area: 179069  
Amount: 0.047203  
Amount Units: ng/ml

Processing Integration Results



RT: 6.60  
Area: 184992  
Amount: 0.044968  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:23:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

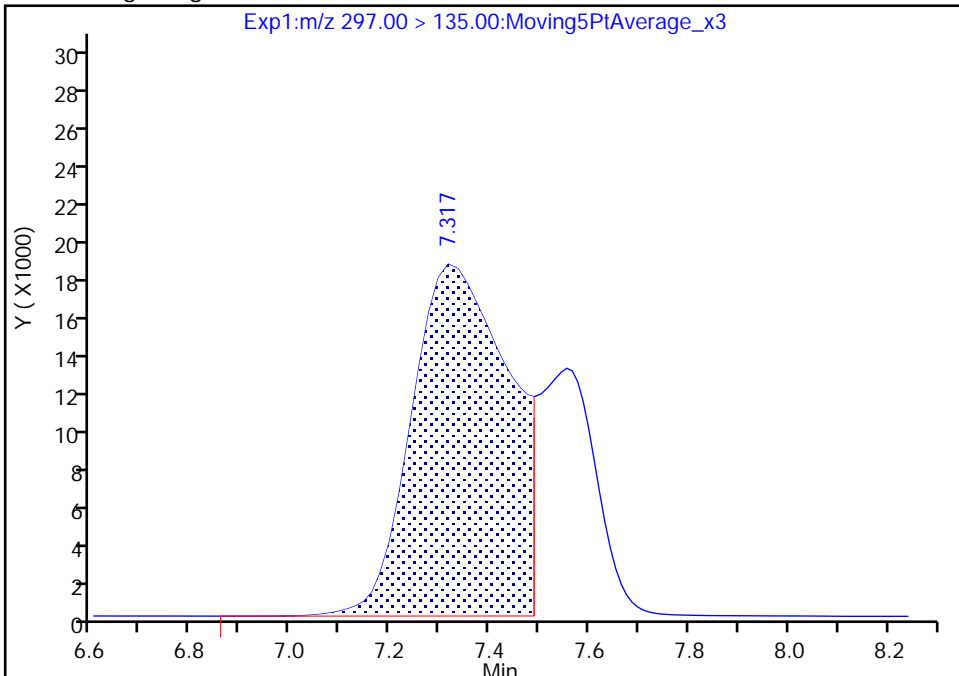
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_007.d  
Injection Date: 20-Feb-2021 12:13:47 Instrument ID: A10  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 9 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

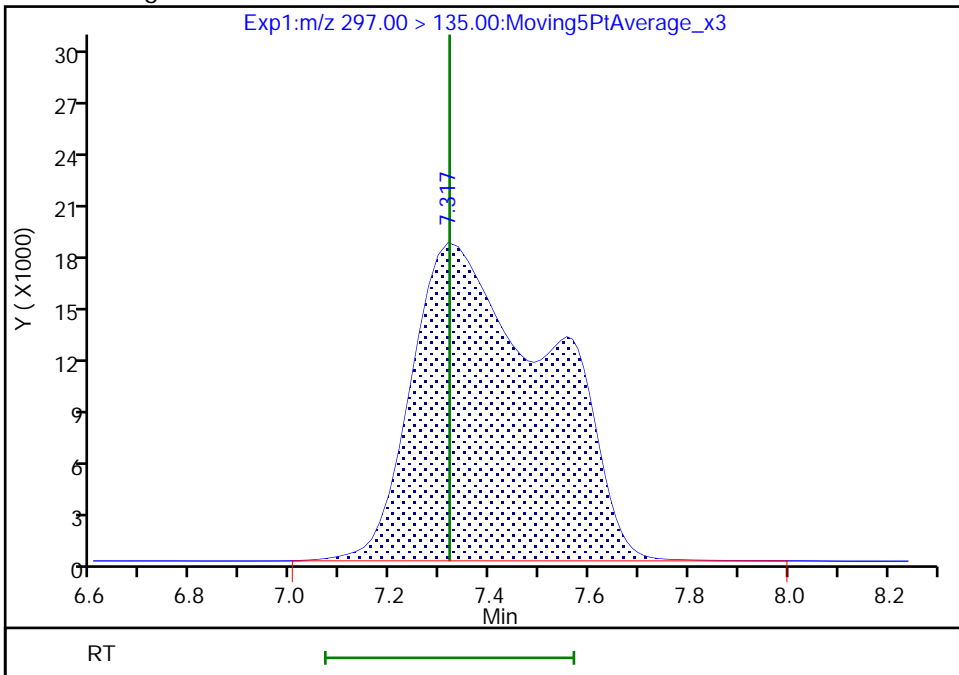
RT: 7.32  
Area: 252576  
Amount: 0.036653  
Amount Units: ng/ml

Processing Integration Results



RT: 7.32  
Area: 356773  
Amount: 0.046538  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:23:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_009.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 20-Feb-2021 12:48:42 ALS Bottle#: 11 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 7 (426)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:41 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 13:26:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.858	2.875	-0.017		1040127	0.1039		104	152	M
2 R-EVE										M
405.00 > 217.00	6.535	6.560	-0.025		415236	0.1009		101	10064	M
3 R-PSDA										
440.90 > 241.00	6.637	6.653	-0.016		263161	0.0969		96.9	6047	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.733	6.749	-0.016		775227	0.0976		97.6	13997	M
23 PMPA										
229.00 > 185.00	6.733	6.765	-0.032		1248534	0.0981		98.1	687	
5 NVHOS										M
297.00 > 135.00	7.300	7.319	-0.019		764583	0.0997		99.7	14210	M
6 PFO2HxA										
245.00 > 85.00	7.905	7.932	-0.027		936964	0.0998		99.8	10971	
22 PEPA										
278.90 > 234.90	8.563	8.584	-0.021		573886	0.1026		103	984	
7 PES										
314.90 > 135.00	8.881	8.908	-0.027		4681826	0.0997		99.7	163925	
8 PFECA B										
295.00 > 201.00	9.110	9.139	-0.029		648972	0.1000		100.0	22256	
9 PFO3OA										
310.90 > 85.00	9.352	9.396	-0.044		576011	0.0961		96.1	11467	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.459	9.486	-0.027		1352132	0.2444		97.8	54311	
11 HPFO-DA										
285.00 > 169.00	9.459	9.486	-0.027	1.000	590223	0.1002		100	23519	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.823	9.847	-0.024		6360954	0.1012		101	159752	
13 Hydro-EVE Acid										
427.00 > 282.90	9.881	9.904	-0.023		7972300	0.1010		101	125655	
D 14 13C4 PFHpA										
367.00 > 322.00	9.881	9.904	-0.023		6461952	0.2543		102	135750	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.881	9.904	-0.023	1.000	2700462	0.0988	Target=0.00	98.8	15550	
363.00 > 169.00	9.881	9.904	-0.023	1.000	1166983		2.31(0.00-0.00)	98.8	29589	
15 Hydro-PS Acid										
463.00 > 262.90	9.900	9.939	-0.039		2679115	0.1054		105	76134	
17 PFECA G										
378.90 > 184.90	9.986	10.034	-0.048		1000698	0.1065		107	40245	
18 PFO4DA										
376.90 > 85.00	10.137	10.161	-0.024		517969	0.1004		100	4615	
19 PS Acid										
443.00 > 146.90	10.198	10.242	-0.044		1210157	0.1059		106	36574	
20 EVE Acid										
407.00 > 262.90	10.219	10.260	-0.041		4535781	0.1004		100	93444	
21 TAF										
442.90 > 85.00	10.709	10.745	-0.036		387730	0.1034		103	873	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00426

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_009.d

Injection Date: 20-Feb-2021 12:48:42

Instrument ID: A10

Lims ID: IC STD 7

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 11

Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

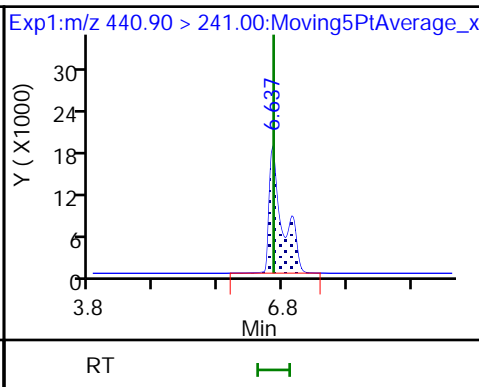
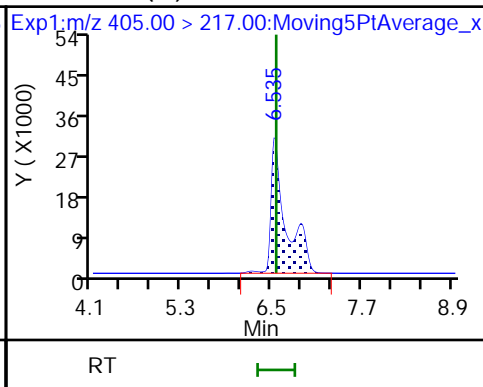
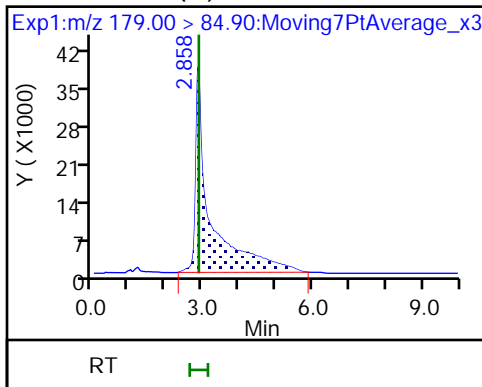
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

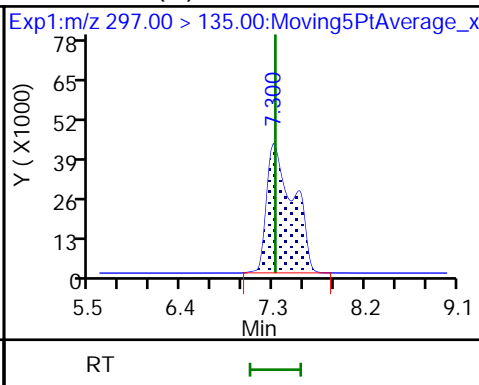
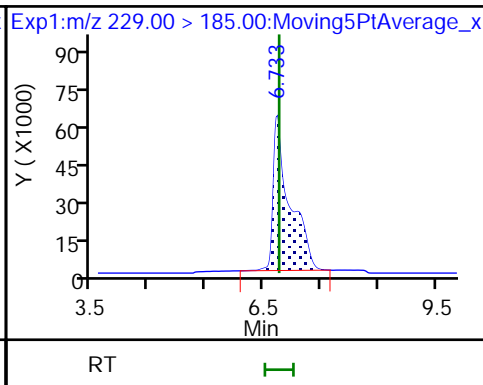
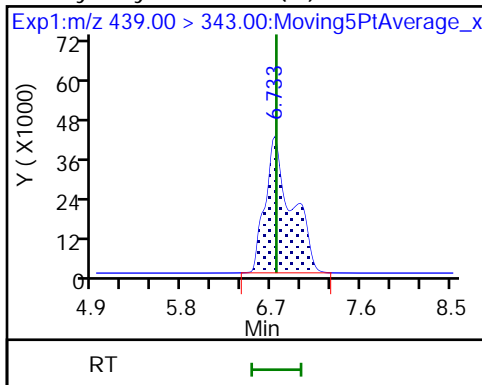
3 R-PSDA



4 Hydrolyzed PSDA (M)

23 PMPA

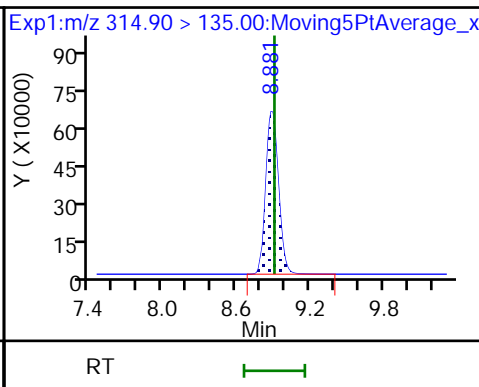
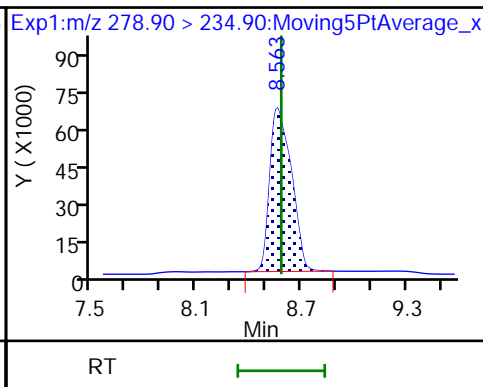
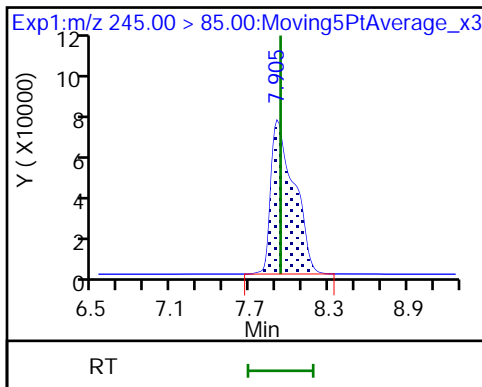
5 NVHOS (M)



6 PFO2HxA

22 PEPA

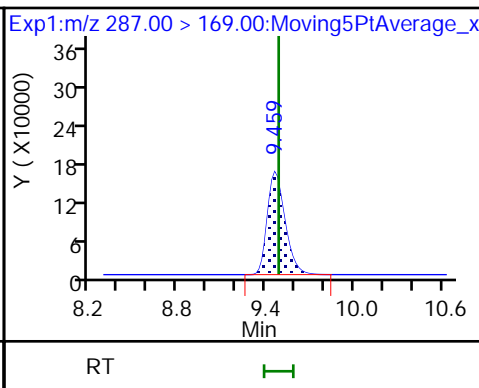
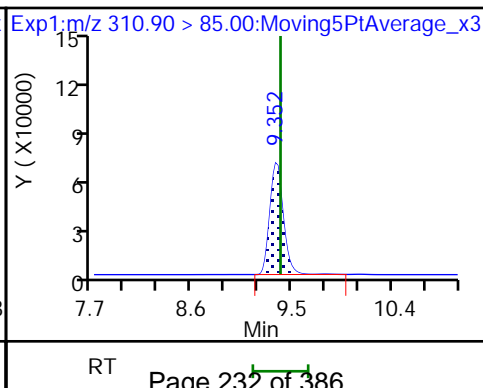
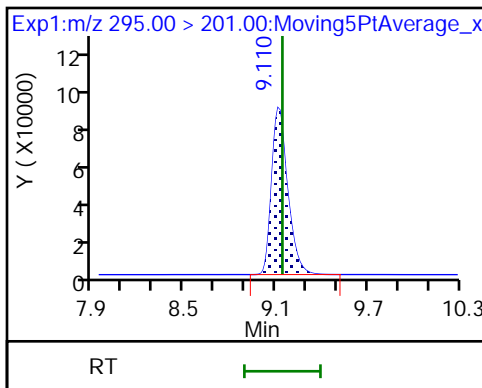
7 PES

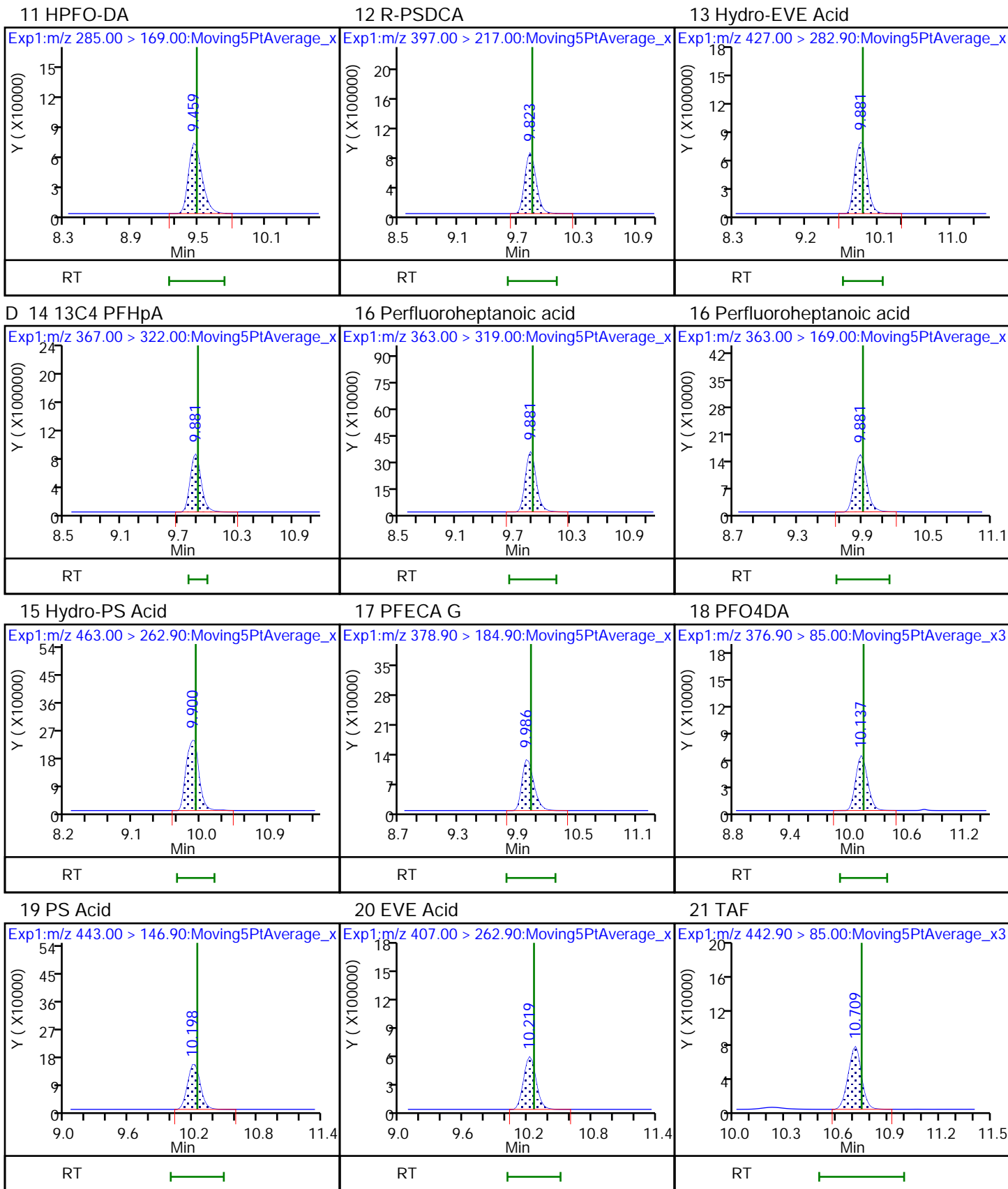


8 PFECAB

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

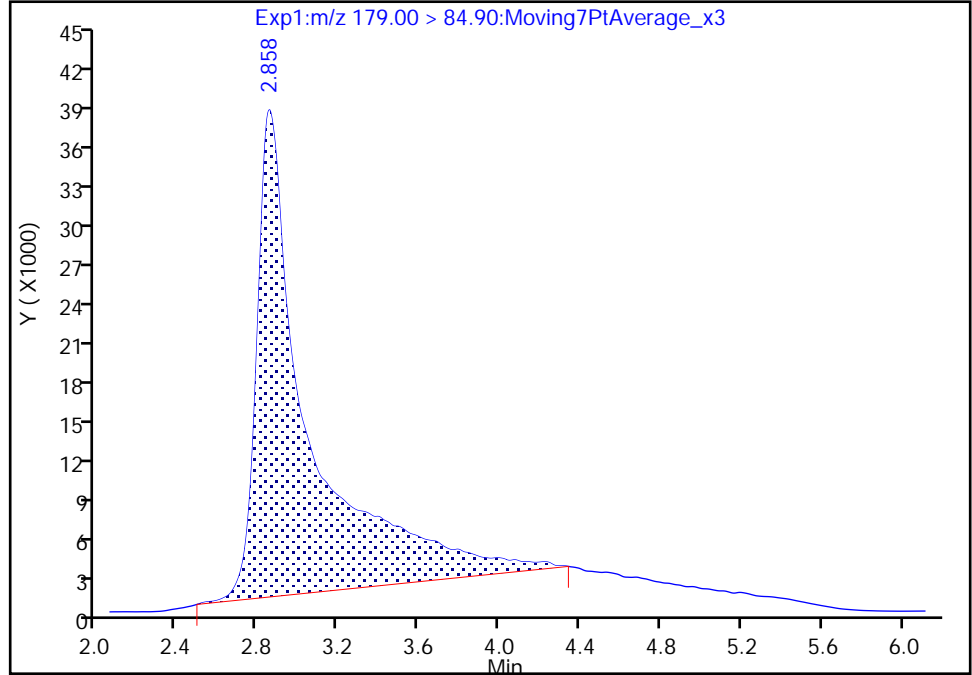
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Injection Date: 20-Feb-2021 12:48:42 Instrument ID: A10  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

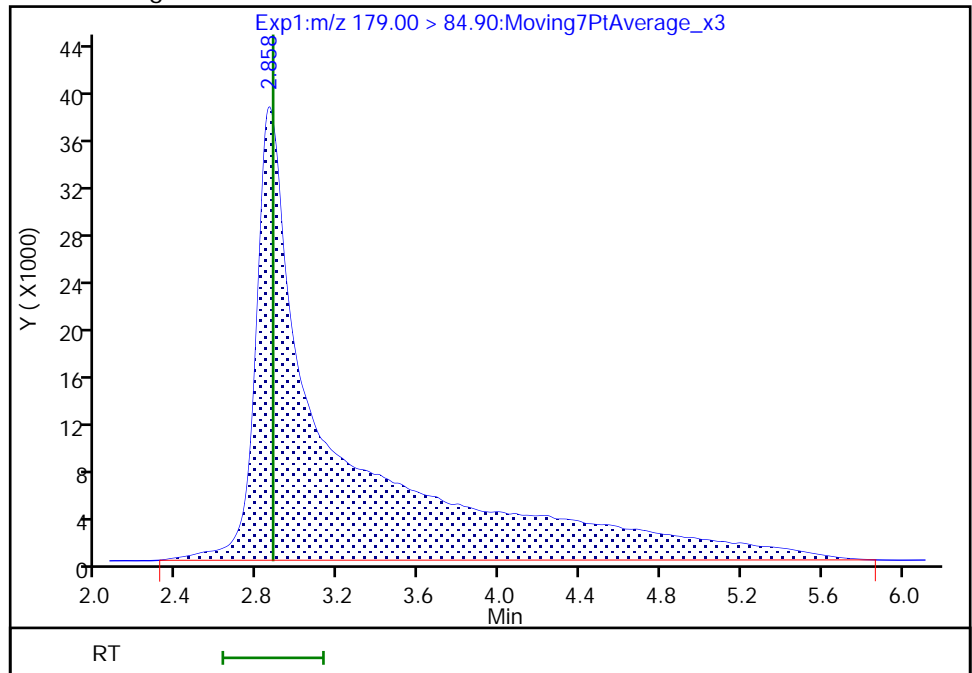
RT: 2.86  
Area: 679492  
Amount: 0.076607  
Amount Units: ng/ml

Processing Integration Results



RT: 2.86  
Area: 1040127  
Amount: 0.103886  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:24:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

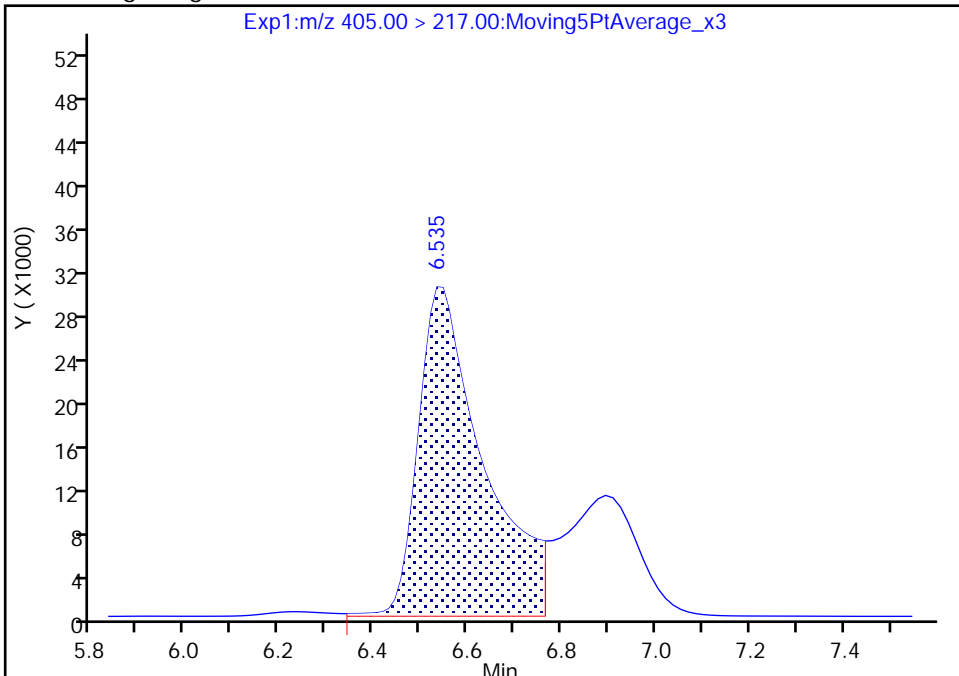
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Injection Date: 20-Feb-2021 12:48:42 Instrument ID: A10  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

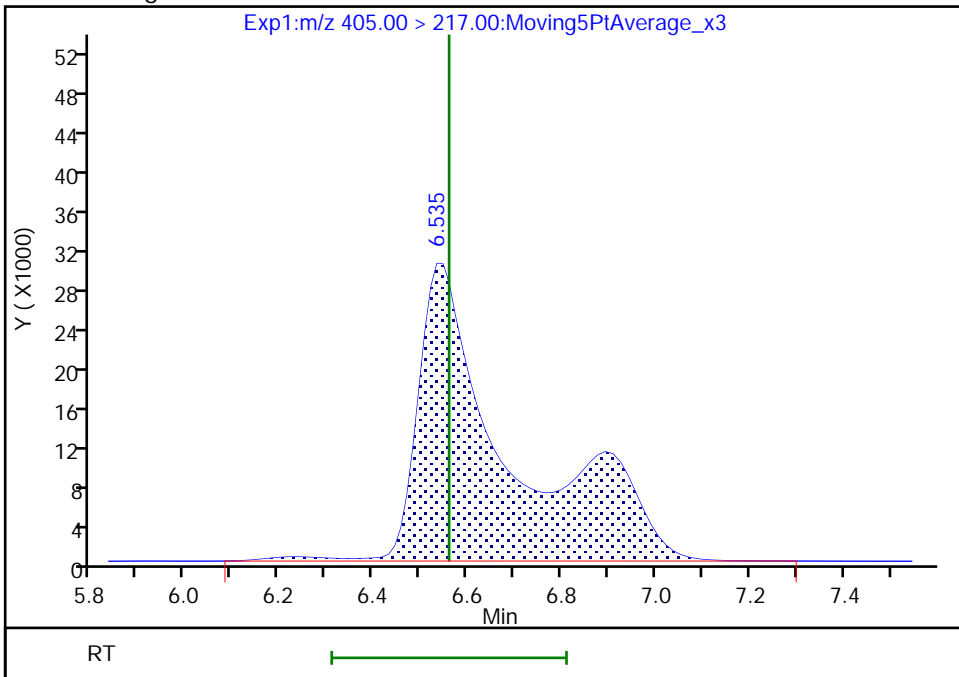
RT: 6.53  
Area: 289755  
Amount: 0.076041  
Amount Units: ng/ml

Processing Integration Results



RT: 6.53  
Area: 415236  
Amount: 0.100936  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:24:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

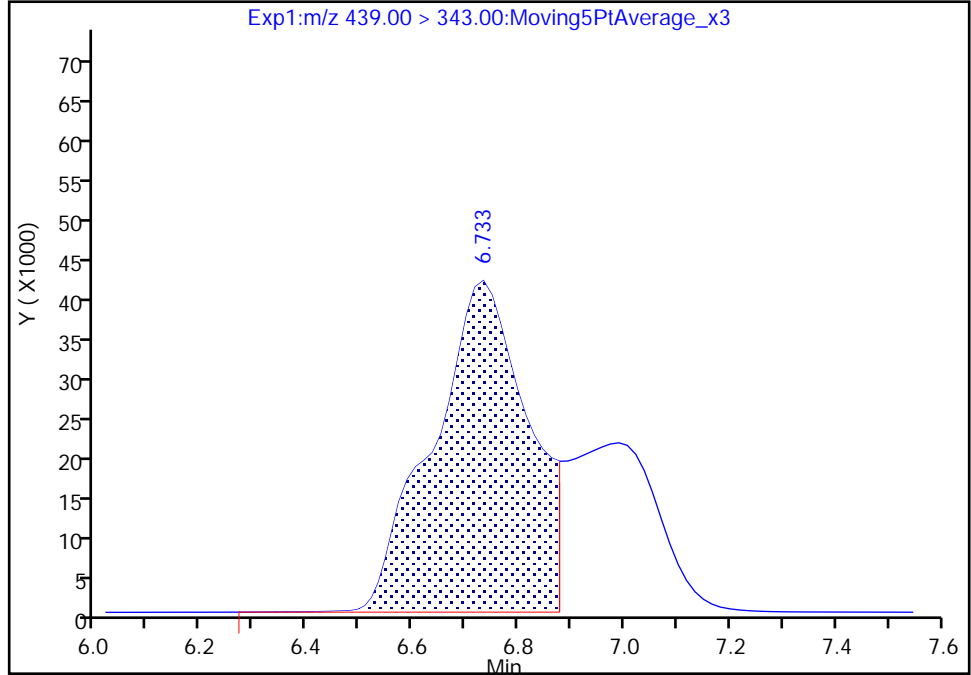
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Injection Date: 20-Feb-2021 12:48:42 Instrument ID: A10  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

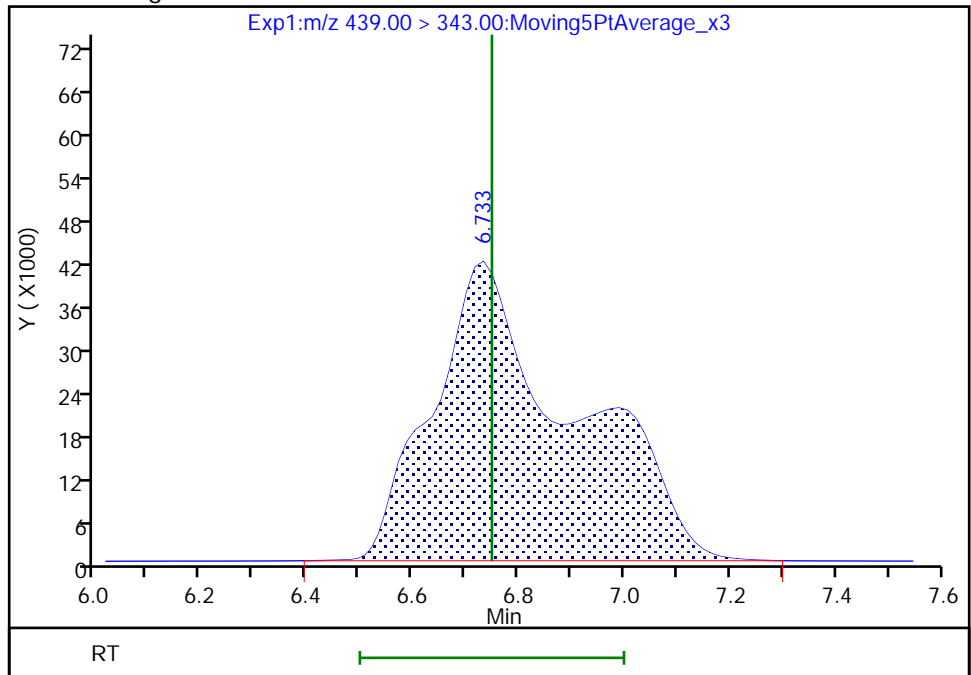
RT: 6.73  
Area: 523418  
Amount: 0.070761  
Amount Units: ng/ml

Processing Integration Results



RT: 6.73  
Area: 775227  
Amount: 0.097613  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:24:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

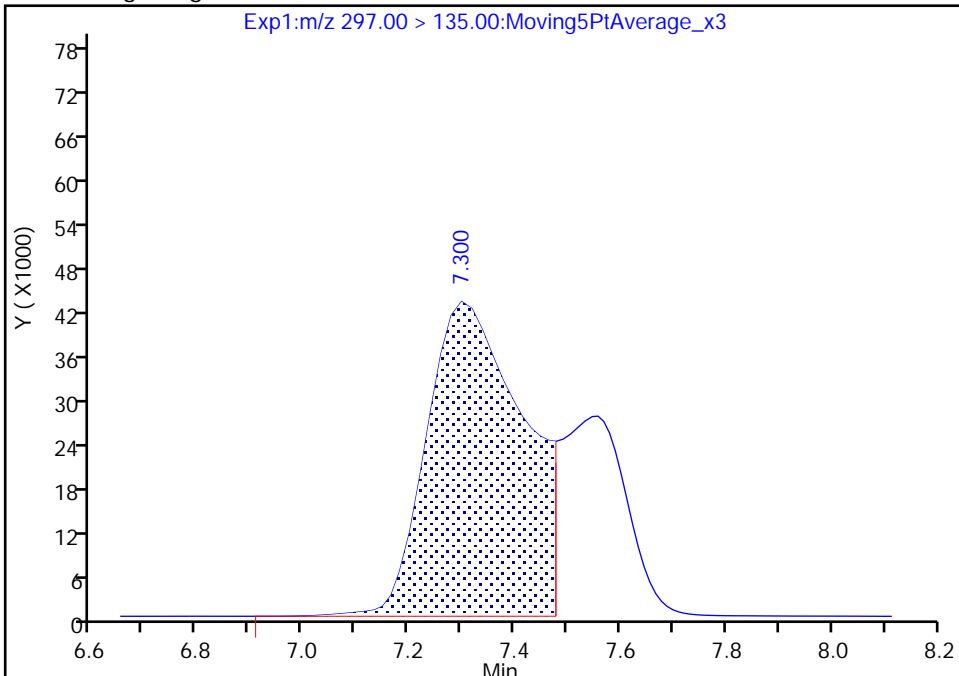
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_009.d  
Injection Date: 20-Feb-2021 12:48:42 Instrument ID: A10  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 11 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

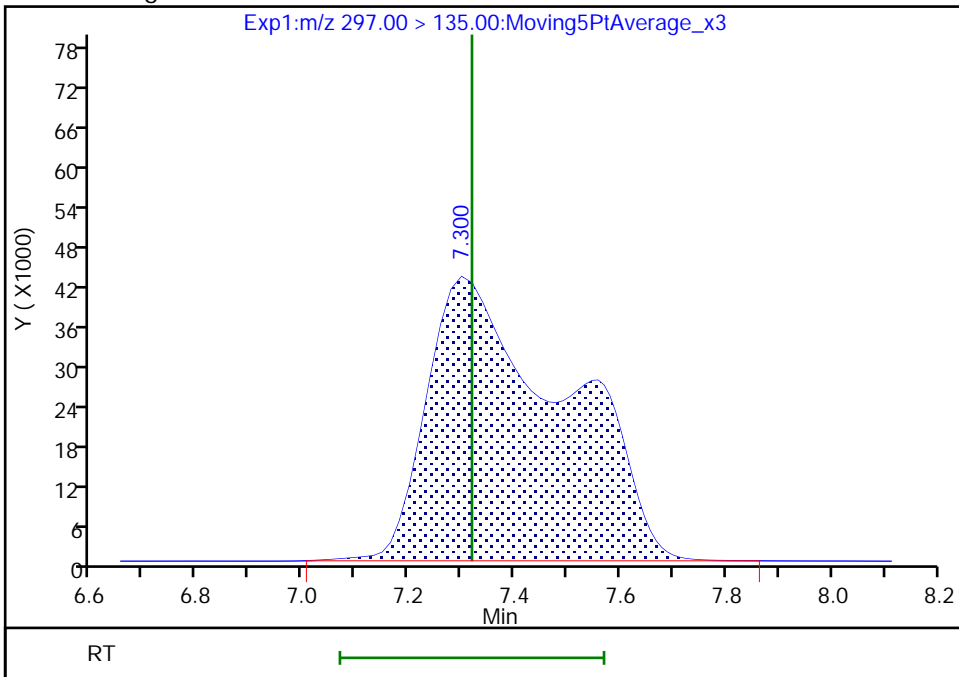
RT: 7.30  
Area: 537013  
Amount: 0.074702  
Amount Units: ng/ml

Processing Integration Results



RT: 7.30  
Area: 764583  
Amount: 0.099734  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 13:24:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 20-Feb-2021 13:23:37 ALS Bottle#: 13 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 8 (44)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:42 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 14:45:03

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.832	2.875	-0.043		2790659	0.2787		111	494	M
2 R-EVE										M
405.00 > 217.00	6.535	6.560	-0.025		1117148	0.2716		109	27812	M
3 R-PSDA										
440.90 > 241.00	6.621	6.653	-0.032		711978	0.2621		105	17081	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.717	6.749	-0.032		2161209	0.2721		109	40061	M
23 PMPA										
229.00 > 185.00	6.717	6.765	-0.048		3310637	0.2637		105	1511	
5 NVHOS										M
297.00 > 135.00	7.300	7.319	-0.019		2046633	0.2670		107	29036	M
6 PFO2HxA										
245.00 > 85.00	7.905	7.932	-0.027		2466870	0.2627		105	22760	
22 PEPA										
278.90 > 234.90	8.552	8.584	-0.032		1588572	0.2841		114	2805	
7 PES										
314.90 > 135.00	8.880	8.908	-0.028		12801991	0.2726		109	430050	
8 PFECA B										
295.00 > 201.00	9.109	9.139	-0.030		1727616	0.2661		106	47875	
9 PFO3OA										
310.90 > 85.00	9.352	9.396	-0.044		1489930	0.2486		99.4	21993	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.464	9.486	-0.022		1464624	0.2647		106	57777	
11 HPFO-DA										
285.00 > 169.00	9.464	9.486	-0.022	1.000	1605227	0.2517		101	63525	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.829	9.847	-0.018		16279200	0.2590		104	333963	
13 Hydro-EVE Acid										
427.00 > 282.90	9.886	9.904	-0.018		20142203	0.2551		102	189030	
D 14 13C4 PFHpA										
367.00 > 322.00	9.867	9.904	-0.037		6413461	0.2524		101	132443	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.867	9.904	-0.037	1.000	7087162	0.2619	Target=0.00	105	39737	
363.00 > 169.00	9.867	9.904	-0.037	1.000	3030025		2.34(0.00-0.00)	105	93419	
15 Hydro-PS Acid										
463.00 > 262.90	9.905	9.939	-0.034		6787712	0.2671		107	145437	
17 PFECA G										
378.90 > 184.90	9.993	10.034	-0.041		2638025	0.2808		112	107435	
18 PFO4DA										
376.90 > 85.00	10.144	10.161	-0.017		1388717	0.2692		108	12360	
19 PS Acid										
443.00 > 146.90	10.204	10.242	-0.038		3107359	0.2718		109	76661	
20 EVE Acid										
407.00 > 262.90	10.224	10.260	-0.036		11258330	0.2492		99.7	125260	
21 TAF										
442.90 > 85.00	10.700	10.745	-0.045		958564	0.2557		102	1618	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

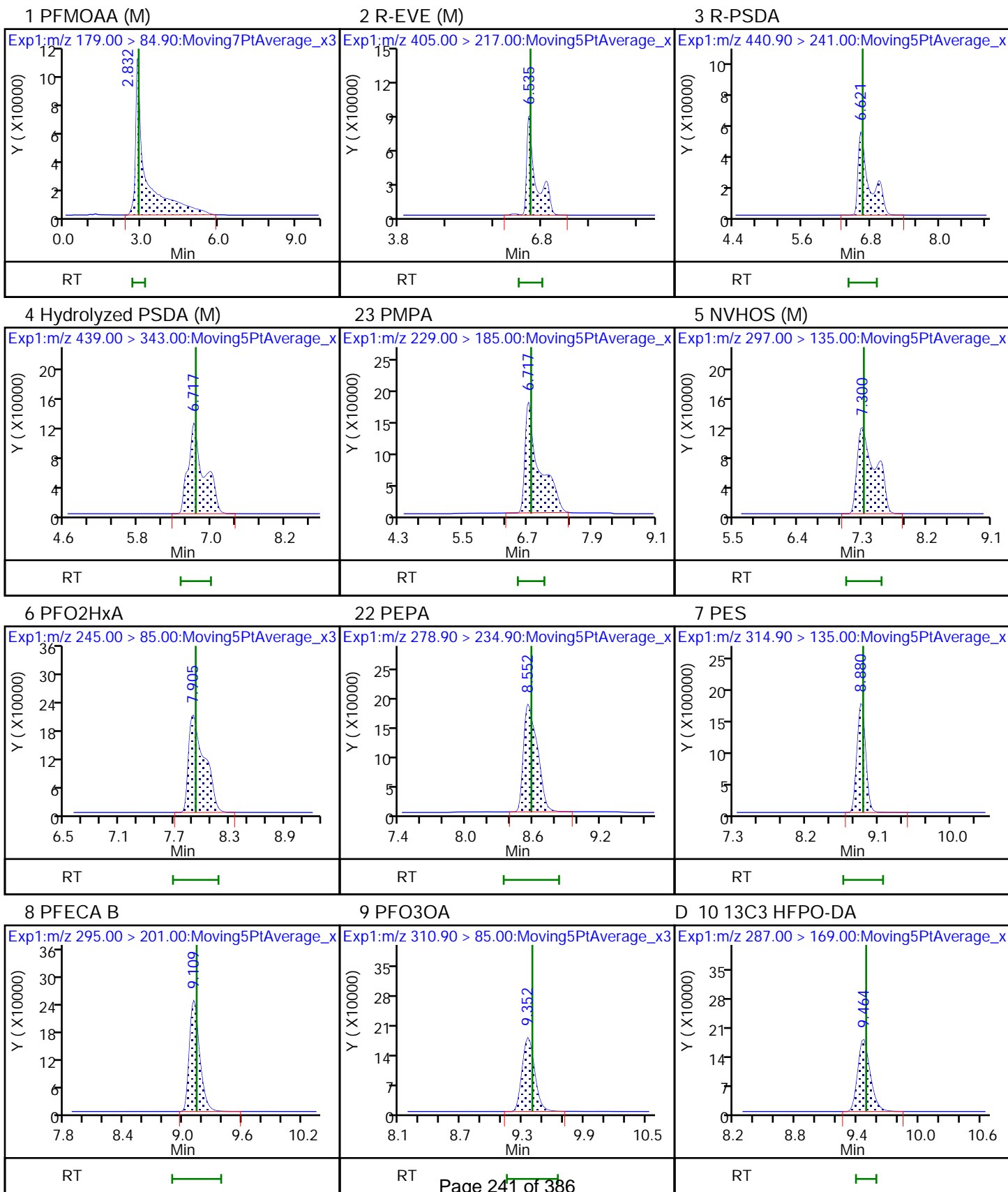
**Reagents:**

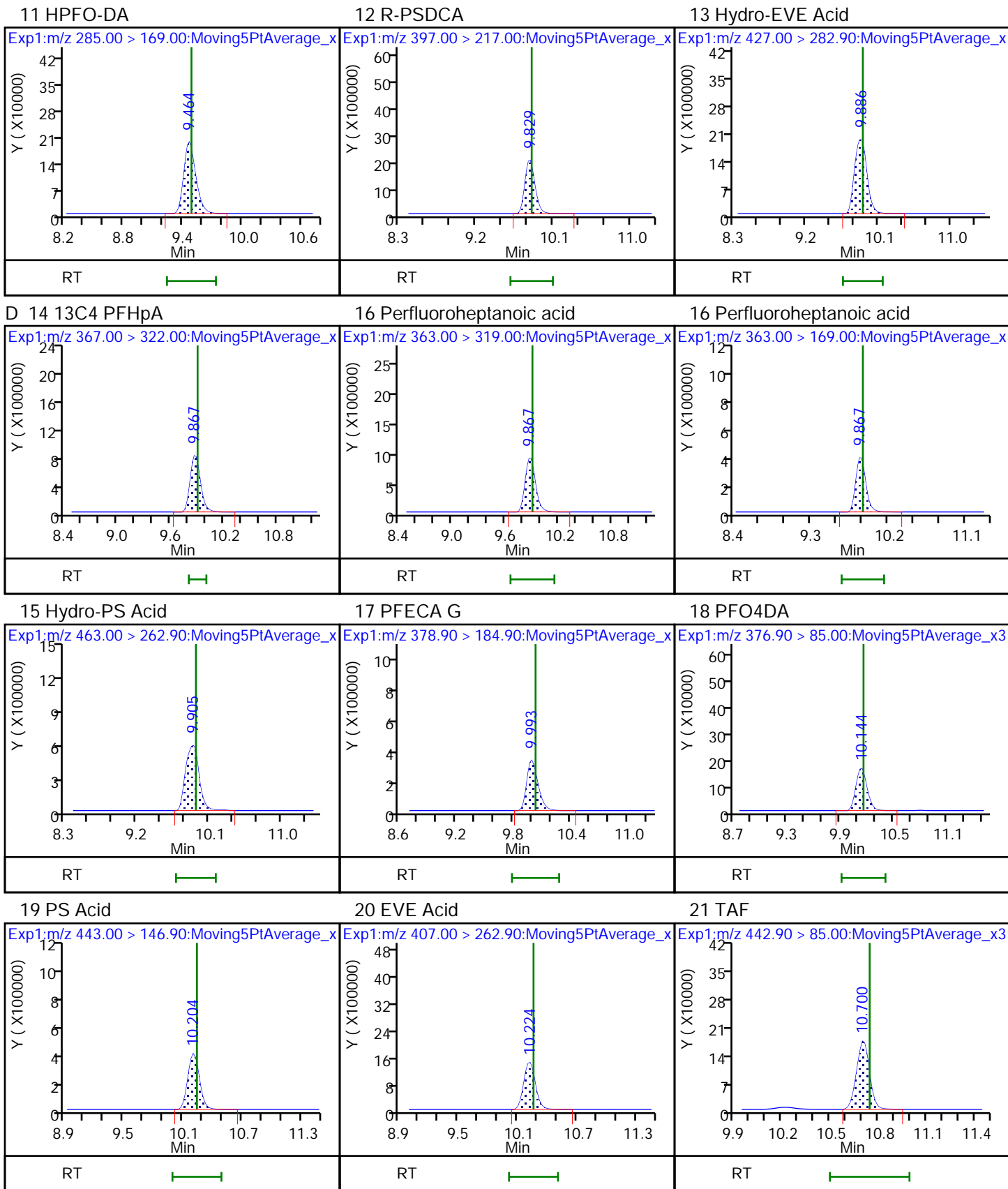
LCTB3\_LLSTD8\_00044

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
Injection Date: 20-Feb-2021 13:23:37 Instrument ID: A10  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

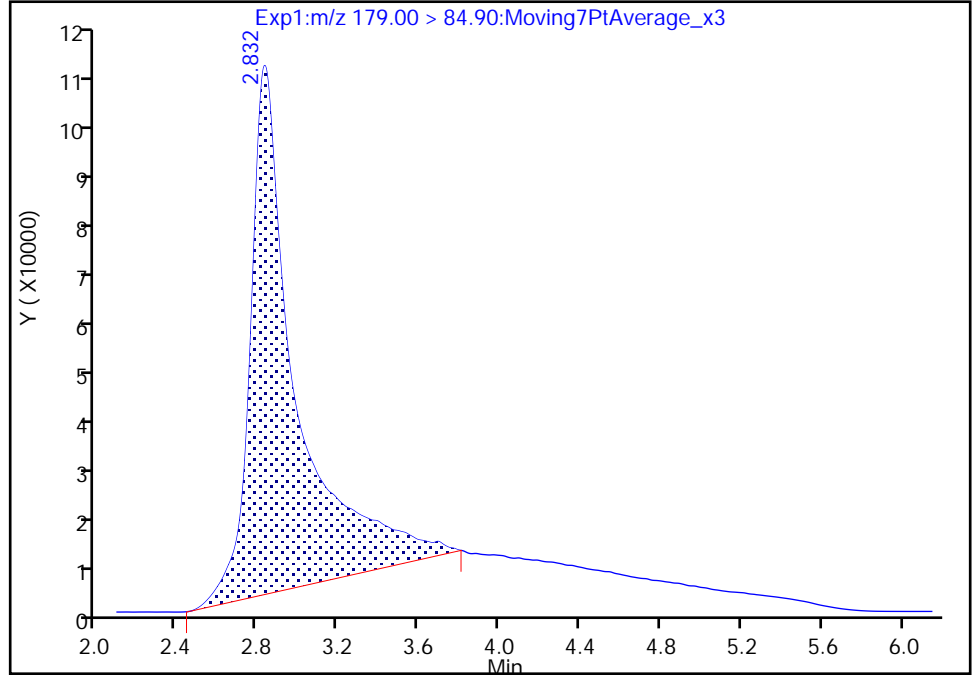
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
Injection Date: 20-Feb-2021 13:23:37 Instrument ID: A10  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

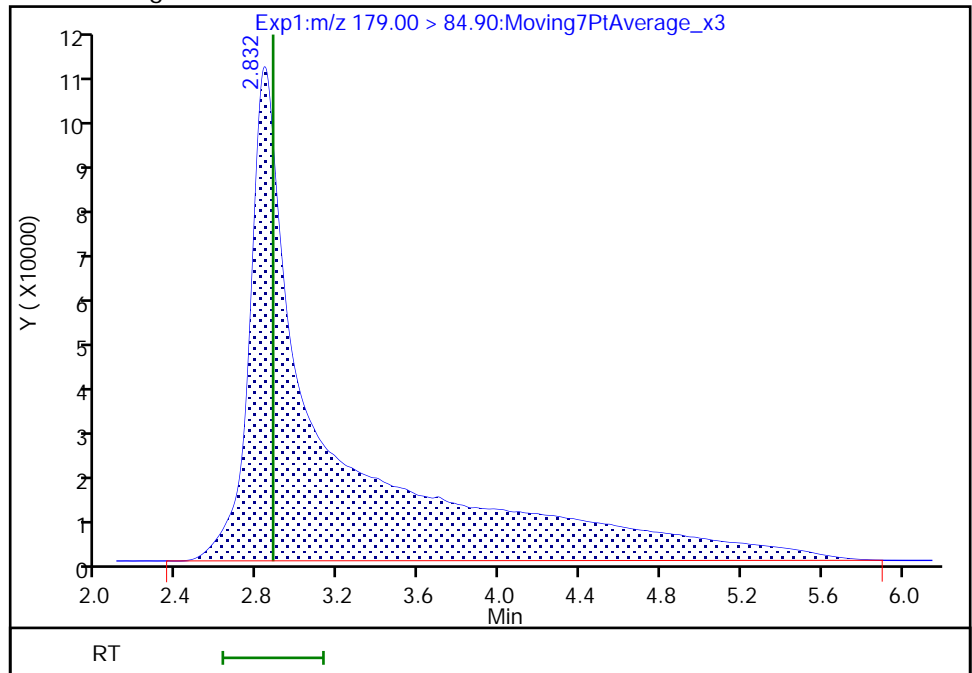
RT: 2.83  
Area: 1614405  
Amount: 0.182300  
Amount Units: ng/ml

Processing Integration Results



RT: 2.83  
Area: 2790659  
Amount: 0.278727  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:44:35  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

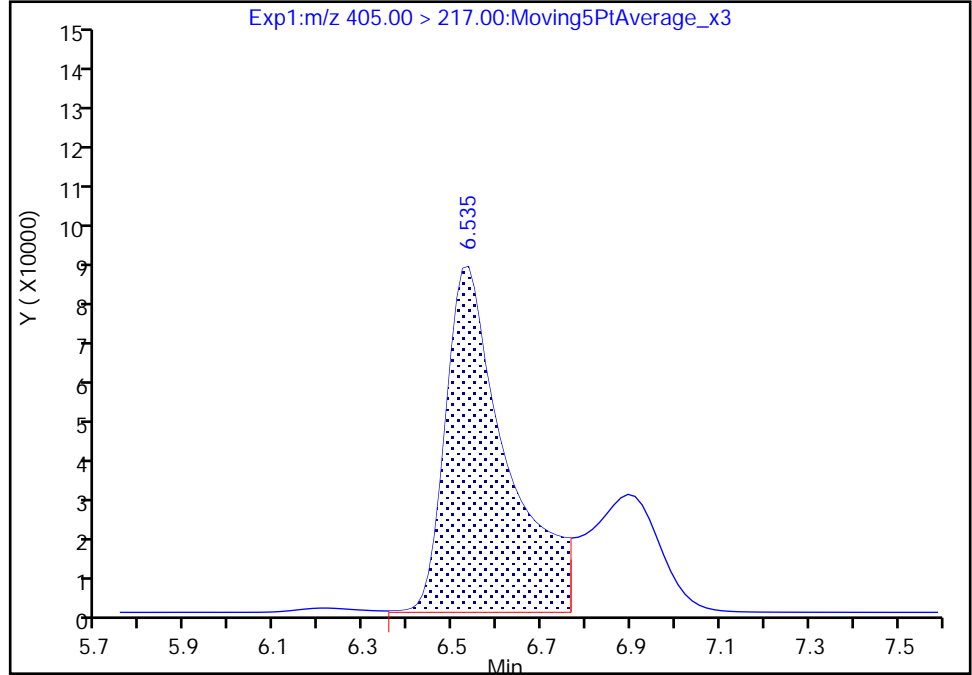
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
Injection Date: 20-Feb-2021 13:23:37 Instrument ID: A10  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

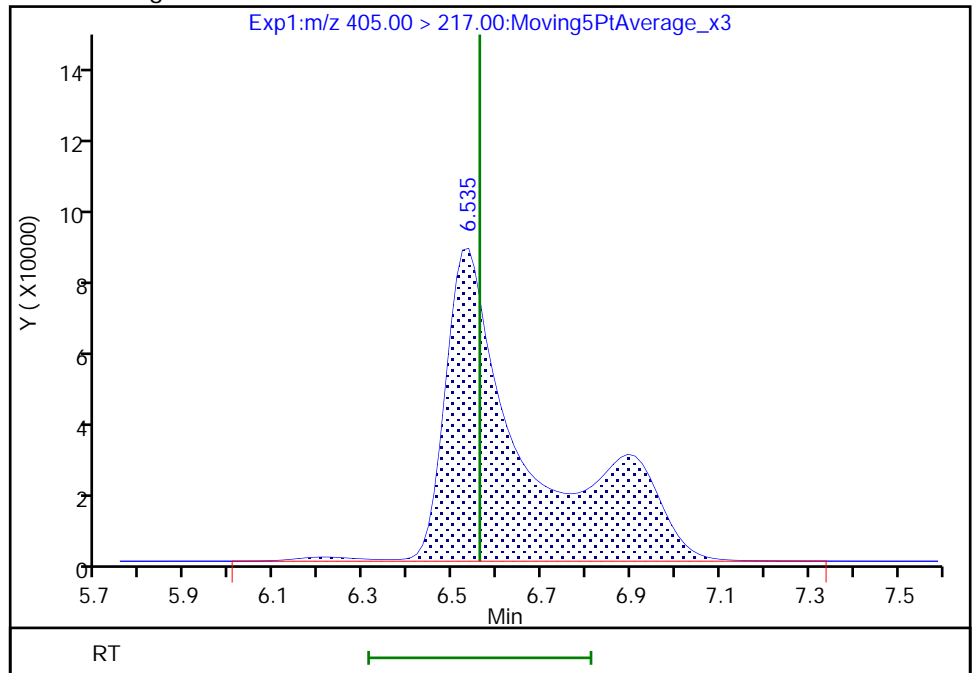
RT: 6.53  
Area: 790185  
Amount: 0.210516  
Amount Units: ng/ml

Processing Integration Results



RT: 6.53  
Area: 1117148  
Amount: 0.271558  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:44:40  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

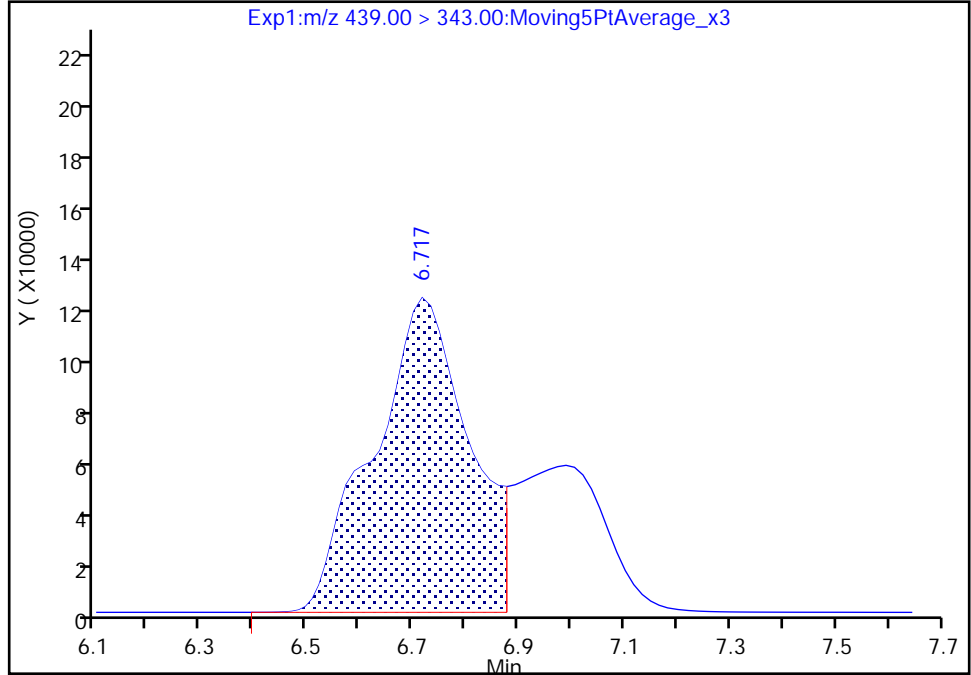
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
Injection Date: 20-Feb-2021 13:23:37 Instrument ID: A10  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

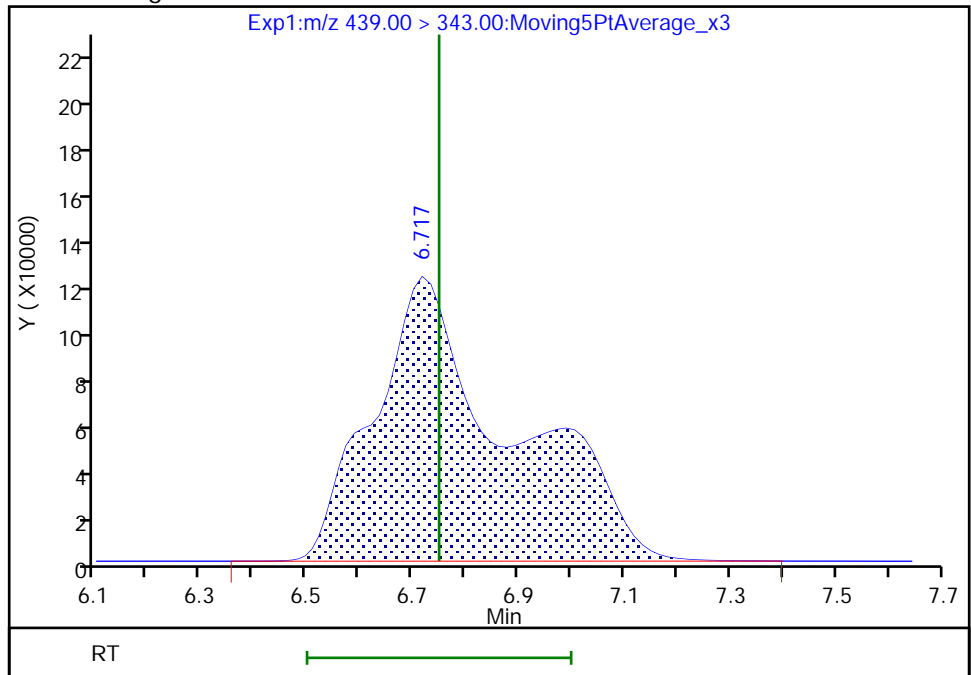
RT: 6.72  
Area: 1499776  
Amount: 0.201195  
Amount Units: ng/ml

Processing Integration Results



RT: 6.72  
Area: 2161209  
Amount: 0.272130  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:44:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

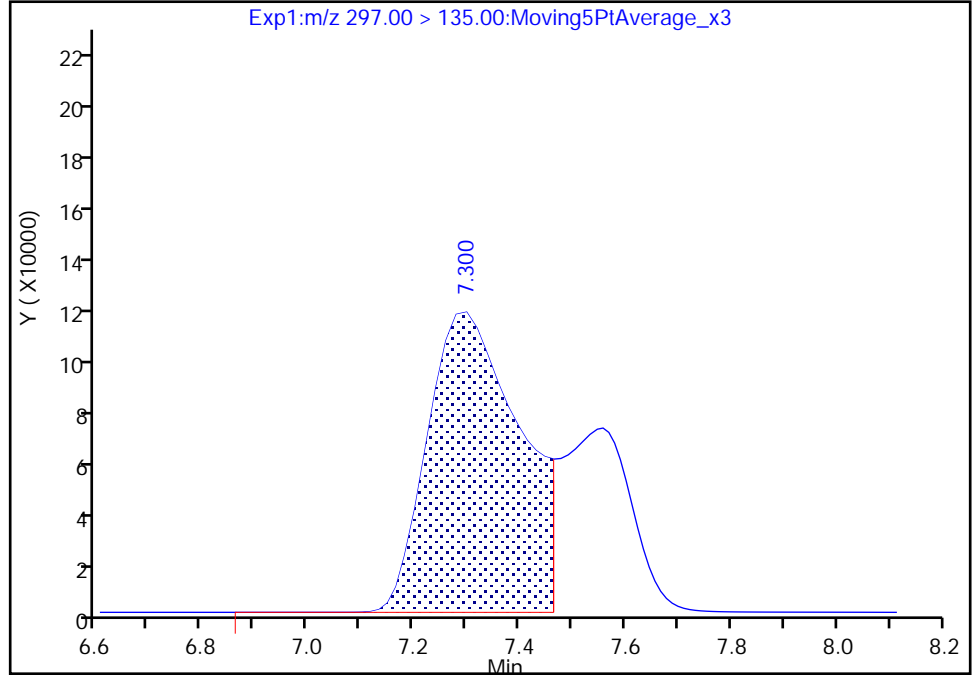
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_011.d  
Injection Date: 20-Feb-2021 13:23:37 Instrument ID: A10  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 13 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

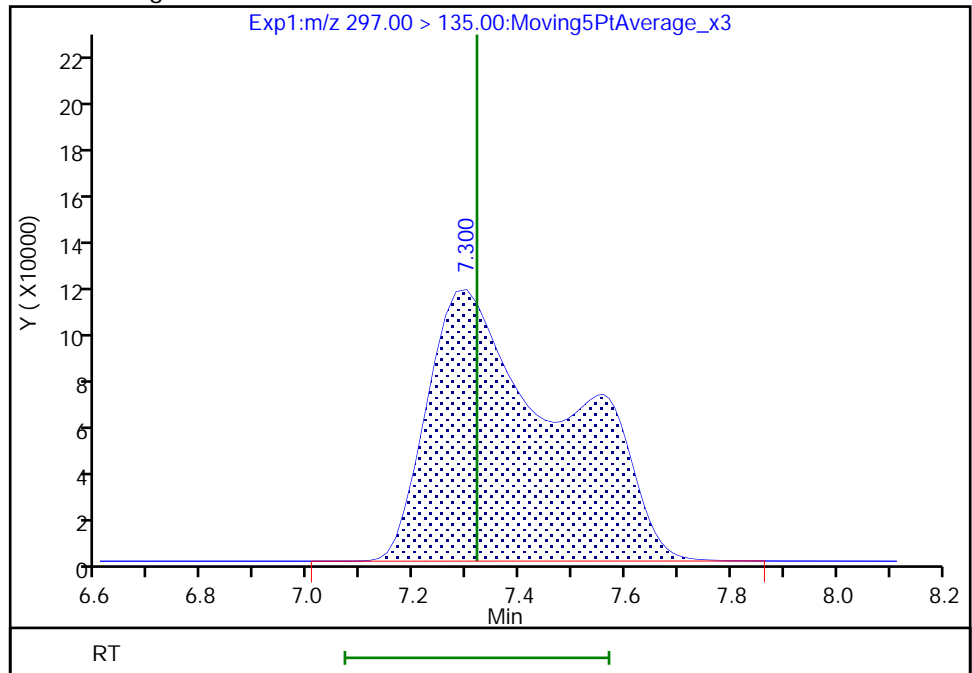
RT: 7.30  
Area: 1398177  
Amount: 0.189748  
Amount Units: ng/ml

Processing Integration Results



RT: 7.30  
Area: 2046633  
Amount: 0.266967  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:44:51  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_013.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 20-Feb-2021 13:58:31 ALS Bottle#: 15 Worklist Smp#: 13  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 9 (42)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:43 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 14:46:19

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.884	2.875	0.009		5307368	0.5301		106	703	M
2 R-EVE										M
405.00 > 217.00	6.561	6.560	0.001		2168245	0.5271		105	54428	M
3 R-PSDA										
440.90 > 241.00	6.653	6.653	0.0		1396049	0.5140		103	34059	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.750	6.749	0.001		4142091	0.5216		104	47195	M
23 PMPA										
229.00 > 185.00	6.734	6.765	-0.031		6140870	0.4911		98.2	2884	
5 NVHOS										
297.00 > 135.00	7.319	7.319	0.0		3878158	0.5059		101	37217	
6 PFO2HxA										
245.00 > 85.00	7.905	7.932	-0.027		4742494	0.5050		101	48622	
22 PEPA										
278.90 > 234.90	8.572	8.584	-0.012		2787175	0.4984		99.7	5435	
7 PES										
314.90 > 135.00	8.893	8.908	-0.015		24501744	0.5217		104	670305	
8 PFECA B										
295.00 > 201.00	9.110	9.139	-0.029		3109719	0.4791		95.8	86181	
9 PFO3OA										
310.90 > 85.00	9.352	9.396	-0.044		2755328	0.4597		91.9	80759	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.467	9.486	-0.019		1391479	0.2515		101	54184	
11 HPFO-DA										
285.00 > 169.00	9.467	9.486	-0.019	1.000	2924346	0.4826		96.5	114348	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.815	9.847	-0.032		27475418	0.4371		87.4	373132	
13 Hydro-EVE Acid										
427.00 > 282.90	9.872	9.904	-0.032		35643887	0.4514		90.3	239826	
D 14 13C4 PFHpA										
367.00 > 322.00	9.872	9.904	-0.032		5730872	0.2256		90.2	119096	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.872	9.904	-0.032	1.000	12569308	0.5203	Target=0.00	104	71261	
363.00 > 169.00	9.872	9.904	-0.032	1.000	5210927		2.41(0.00-0.00)	104	129640	
15 Hydro-PS Acid										
463.00 > 262.90	9.911	9.939	-0.028		12479108	0.4911		98.2	180107	
17 PFECA G										
378.90 > 184.90	9.999	10.034	-0.035		4820530	0.5132		103	146182	
18 PFO4DA										
376.90 > 85.00	10.128	10.161	-0.033		2266863	0.4394		87.9	12869	
19 PS Acid										
443.00 > 146.90	10.211	10.242	-0.031		5450120	0.4768		95.4	110074	
20 EVE Acid										
407.00 > 262.90	10.211	10.260	-0.049		19076642	0.4223		84.5	127490	
21 TAF										
442.90 > 85.00	10.707	10.745	-0.038		1619543	0.4320		86.4	2112	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD9\_00042

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_013.d

Injection Date: 20-Feb-2021 13:58:31

Instrument ID: A10

Lims ID: IC STD 9

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 15

Worklist Smp#: 13

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

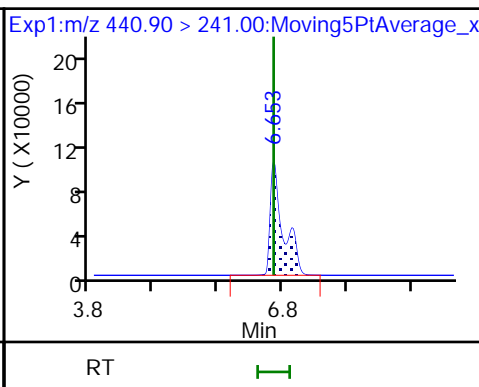
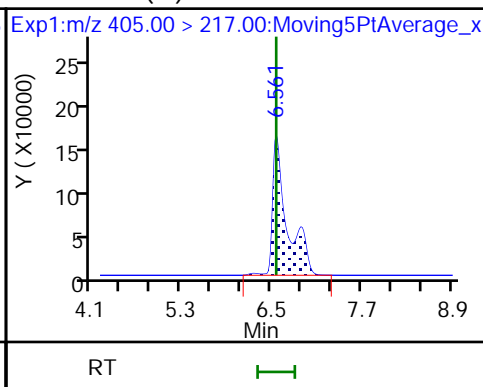
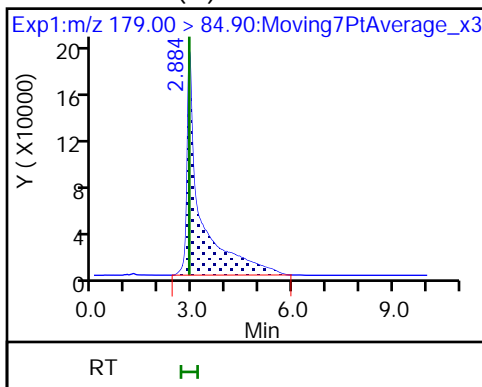
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

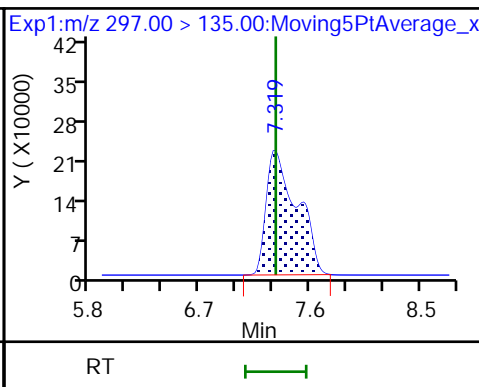
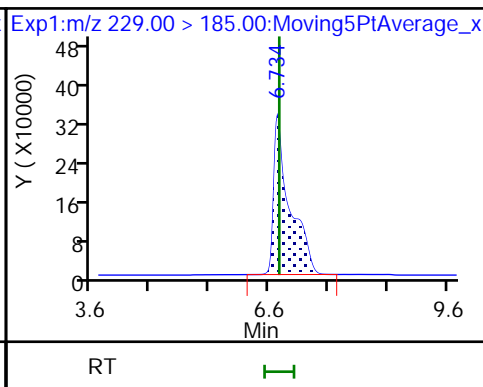
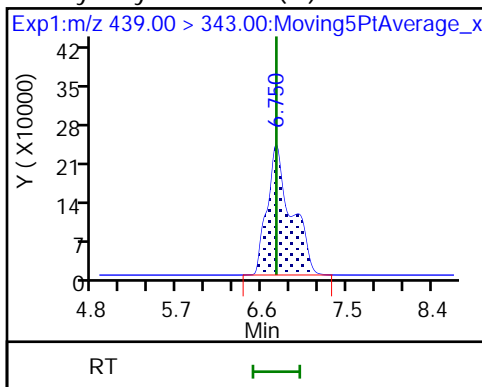
3 R-PSDA



4 Hydrolyzed PSDA (M)

23 PMPA

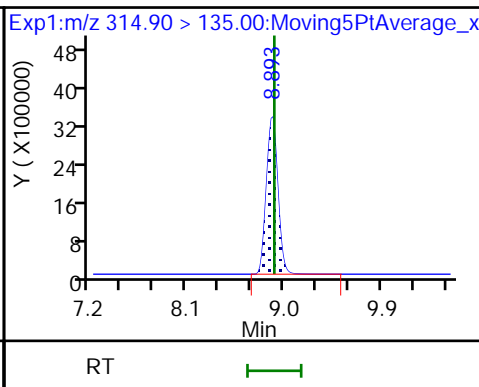
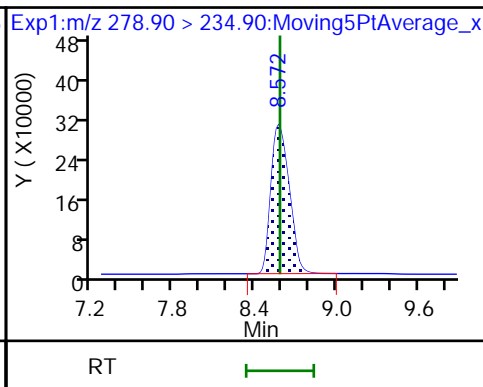
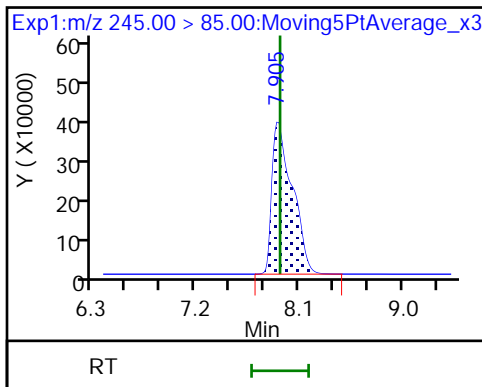
5 NVHOS



6 PFO2HxA

22 PEPA

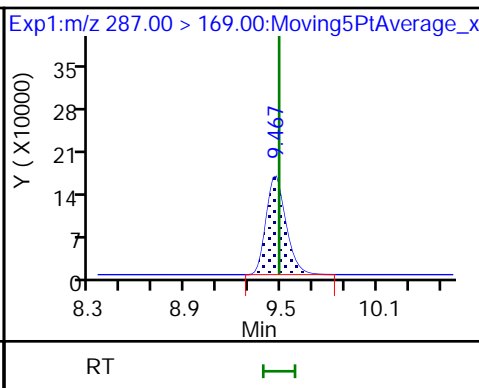
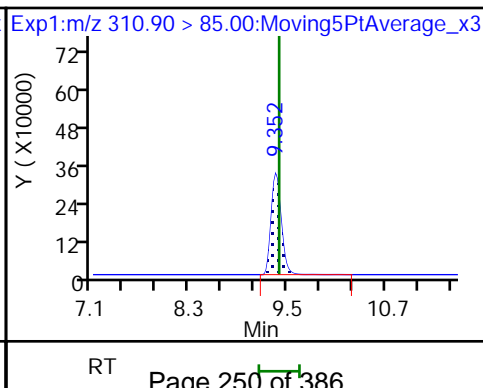
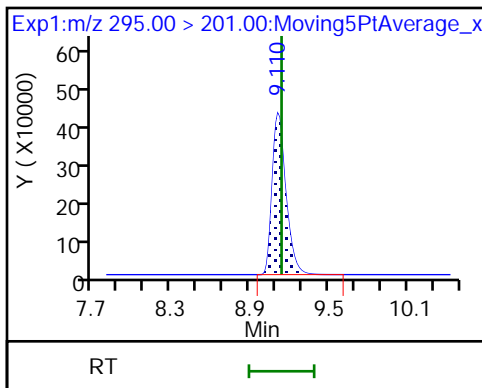
7 PES

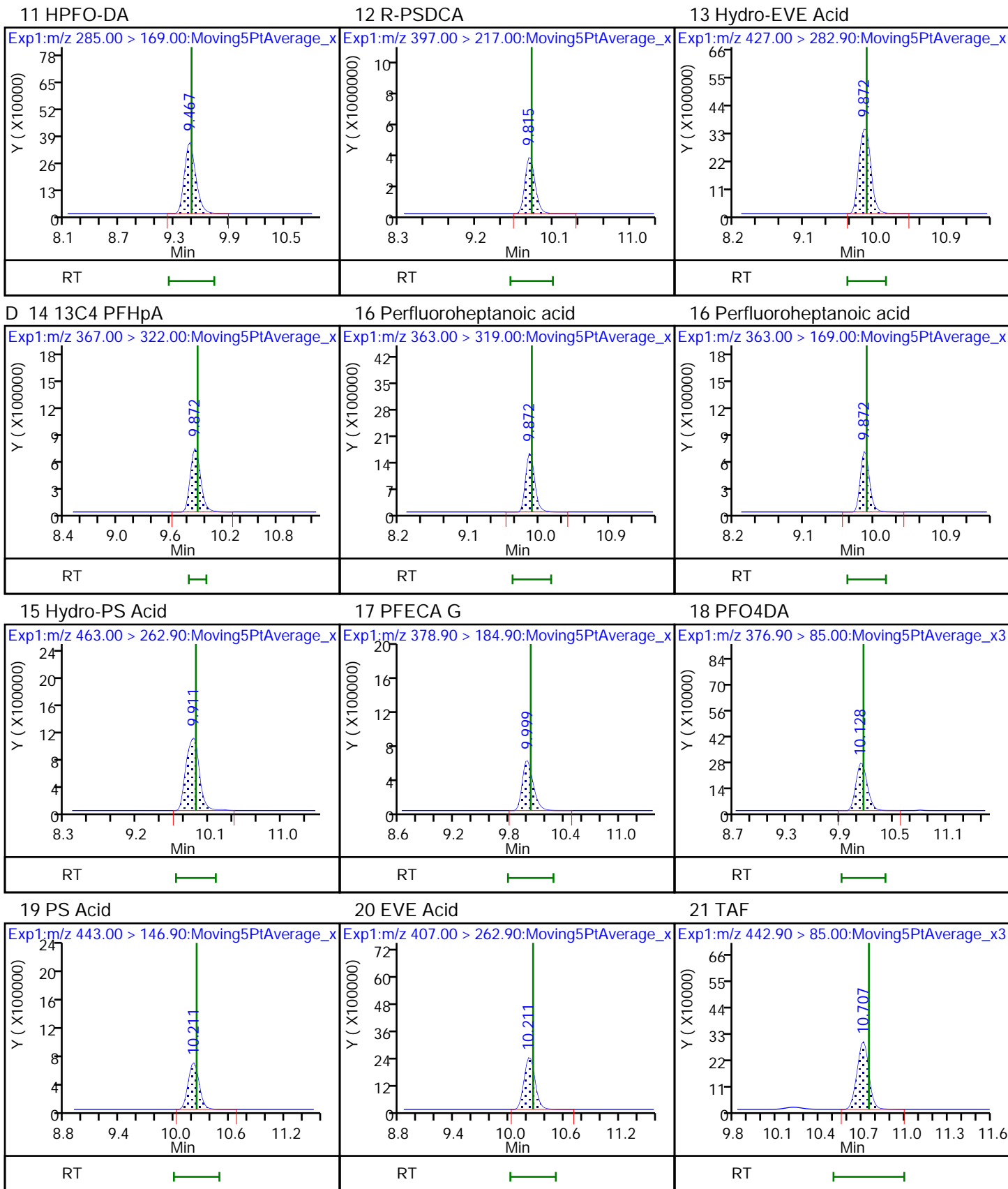


8 PFECAB

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

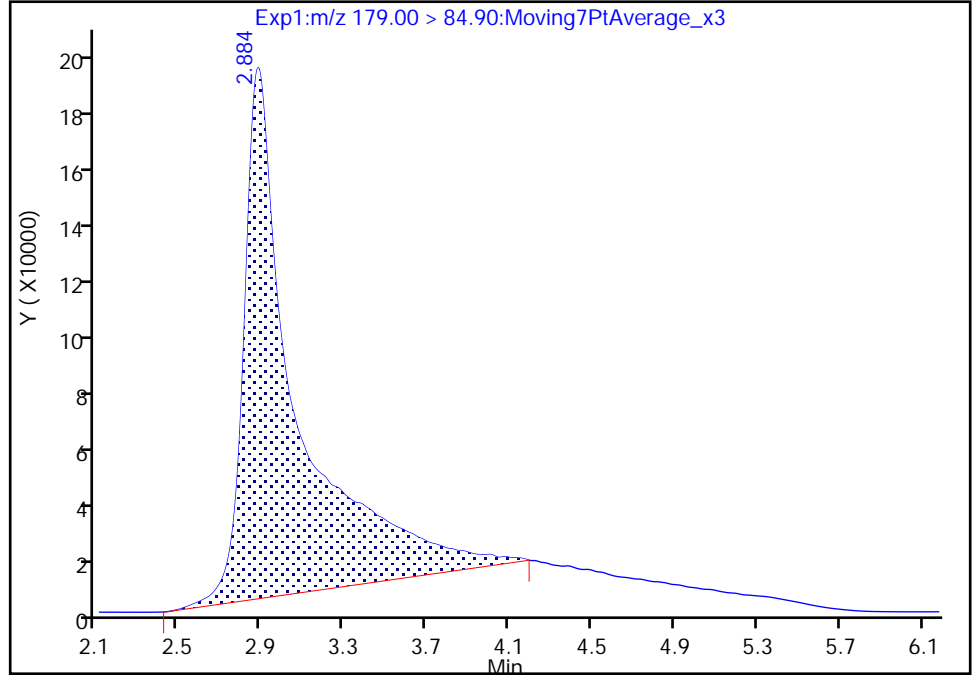
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_013.d  
Injection Date: 20-Feb-2021 13:58:31 Instrument ID: A10  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

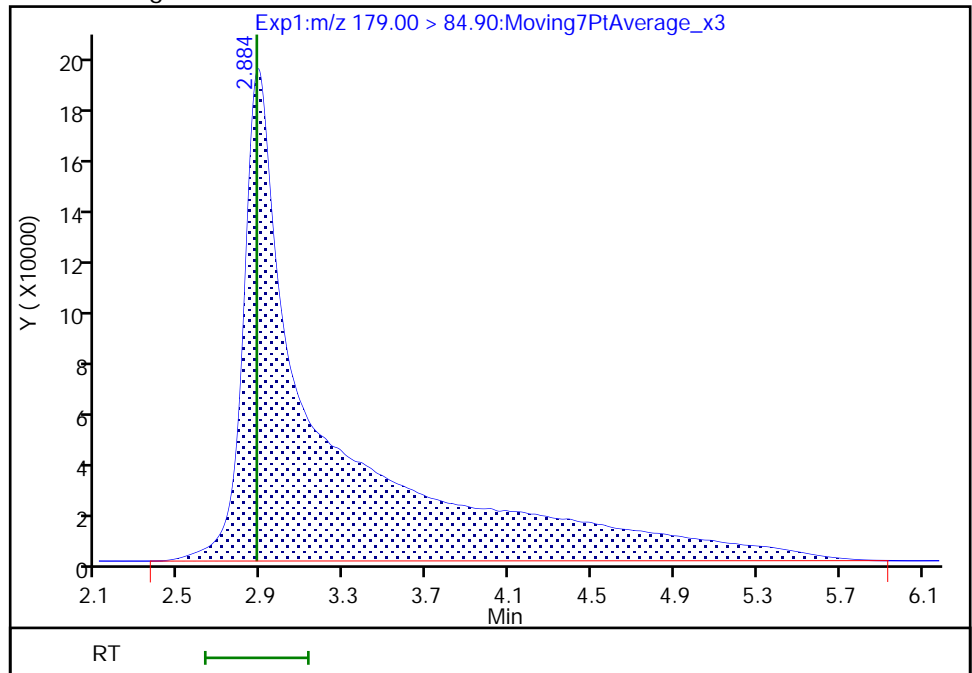
RT: 2.88  
Area: 3470297  
Amount: 0.372099  
Amount Units: ng/ml

Processing Integration Results



RT: 2.88  
Area: 5307368  
Amount: 0.530092  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:46:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento

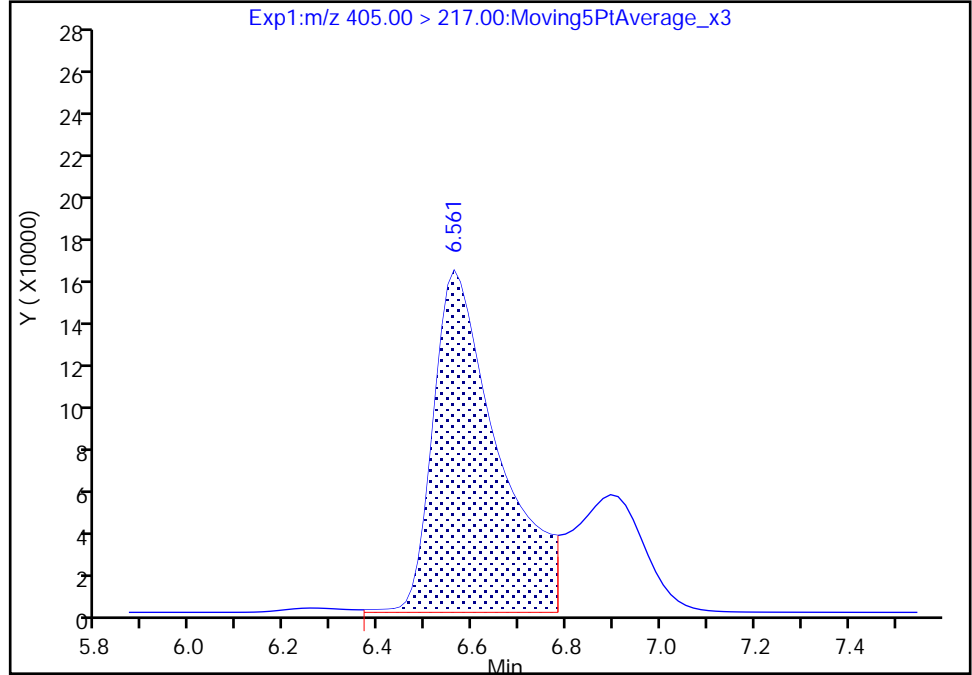
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_013.d  
Injection Date: 20-Feb-2021 13:58:31 Instrument ID: A10  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

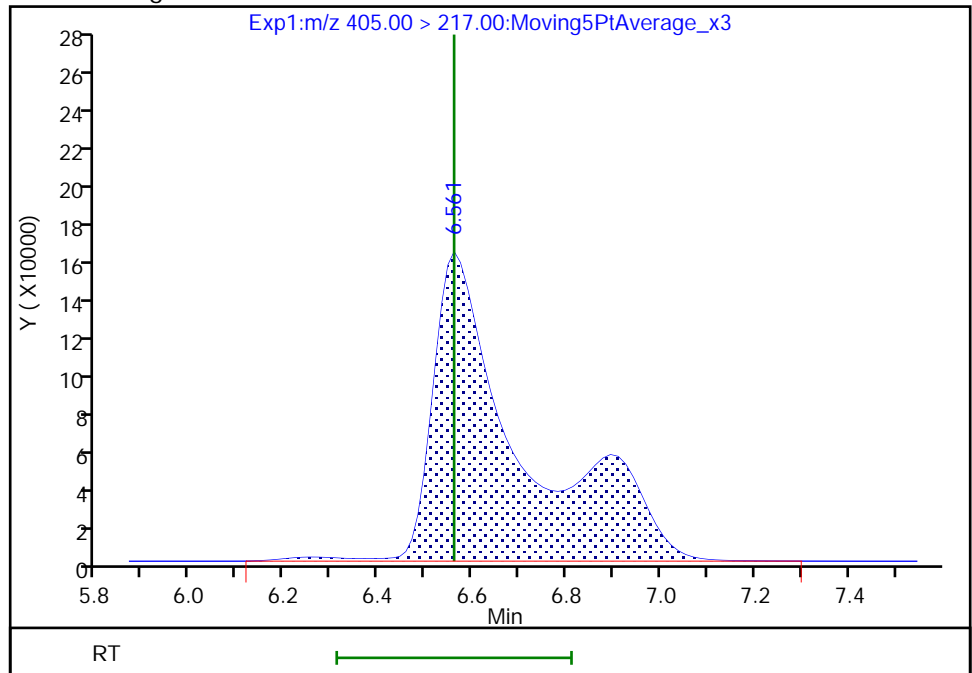
RT: 6.56  
Area: 1561384  
Amount: 0.401968  
Amount Units: ng/ml

Processing Integration Results



RT: 6.56  
Area: 2168245  
Amount: 0.527061  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:46:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

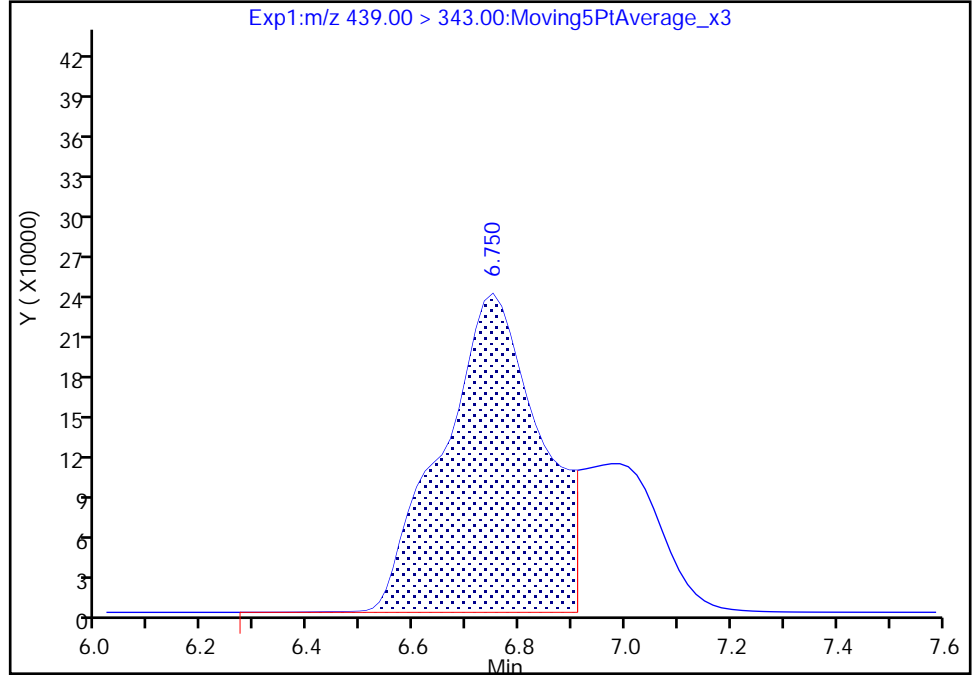
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_013.d  
Injection Date: 20-Feb-2021 13:58:31 Instrument ID: A10  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 15 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

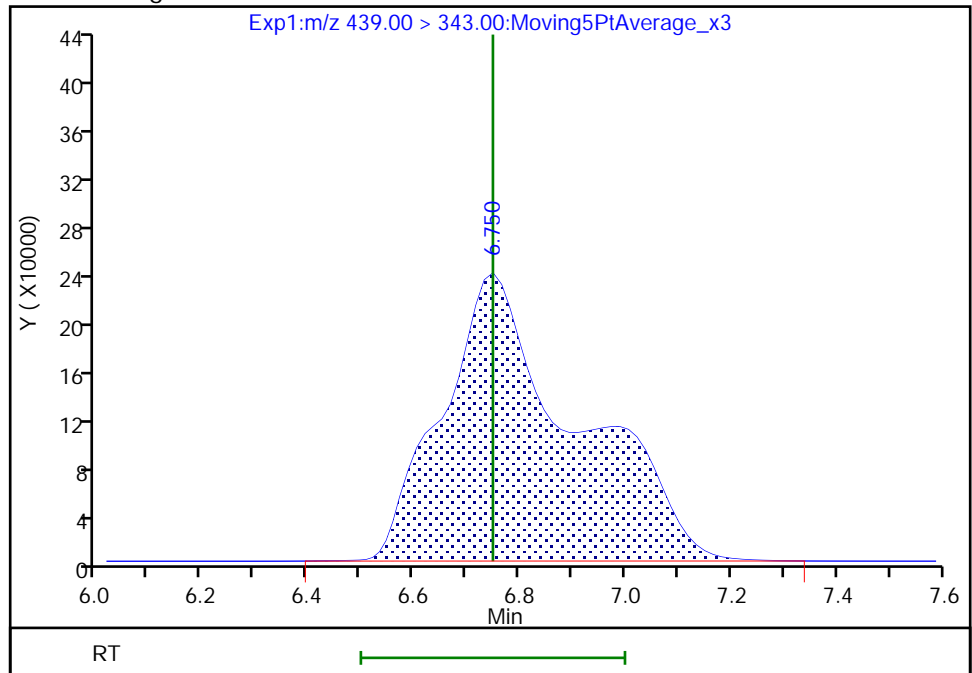
RT: 6.75  
Area: 3027444  
Amount: 0.392212  
Amount Units: ng/ml

Processing Integration Results



RT: 6.75  
Area: 4142091  
Amount: 0.521554  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:46:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 255 of 386

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 20-Feb-2021 14:15:58 ALS Bottle#: 16 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC 10 (41)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:38:44 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 14:46:42

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.026	2.875	0.151		10425782	1.04		104	1164	M
2 R-EVE										M
405.00 > 217.00	6.617	6.560	0.057		4342016	1.06		106	68205	M
3 R-PSDA										
440.90 > 241.00	6.697	6.653	0.044		2992445	1.10		110	82689	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.793	6.749	0.044		8192250	1.03		103	126155	
23 PMPA										
229.00 > 185.00	6.777	6.765	0.012		12257867	0.9825		98.3	5724	
5 NVHOS										
297.00 > 135.00	7.335	7.319	0.016		7739869	1.01		101	159291	
6 PFO2HxA										
245.00 > 85.00	7.913	7.932	-0.019		9188527	0.9784		97.8	89078	
22 PEPA										
278.90 > 234.90	8.568	8.584	-0.016		5634472	1.01		101	10354	
7 PES										
314.90 > 135.00	8.881	8.908	-0.027		46061829	0.9808		98.1	1271979	
8 PFECA B										
295.00 > 201.00	9.110	9.139	-0.029		6030771	0.9291		92.9	172314	
9 PFO3OA										
310.90 > 85.00	9.353	9.396	-0.043		5215960	0.8703		87.0	102465	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.450	9.486	-0.036		1371993	0.2480		99.2	54087	
11 HPFO-DA										
285.00 > 169.00	9.450	9.486	-0.036	1.000	5602406	0.9377		93.8	131140	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.816	9.847	-0.031		43924298	0.6987		69.9	411630	
13 Hydro-EVE Acid										
427.00 > 282.90	9.873	9.904	-0.031		60448615	0.7655		76.6	335658	
D 14 13C4 PFHpA										
367.00 > 322.00	9.873	9.904	-0.031		5378682	0.2117		84.7	111044	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.873	9.904	-0.031	1.000	21096596	0.9307	Target=0.00	93.1	104915	
363.00 > 169.00	9.873	9.904	-0.031	1.000	9143877		2.31(0.00-0.00)	93.1	161840	
15 Hydro-PS Acid										
463.00 > 262.90	9.892	9.939	-0.047		22932681	0.9025		90.3	248937	
17 PFECA G										
378.90 > 184.90	9.982	10.034	-0.052		9044053	0.9628		96.3	223020	
18 PFO4DA										
376.90 > 85.00	10.128	10.161	-0.033		4535169	0.8792		87.9	37379	
19 PS Acid										
443.00 > 146.90	10.190	10.242	-0.052		9513361	0.8323		83.2	126552	
20 EVE Acid										
407.00 > 262.90	10.210	10.260	-0.050		30733220	0.6804		68.0	119959	
21 TAF										
442.90 > 85.00	10.694	10.745	-0.051		2732758	0.7289		72.9	2431	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD10\_00041

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d

Injection Date: 20-Feb-2021 14:15:58

Instrument ID: A10

Lims ID: IC STD 10

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 16

Worklist Smp#: 14

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

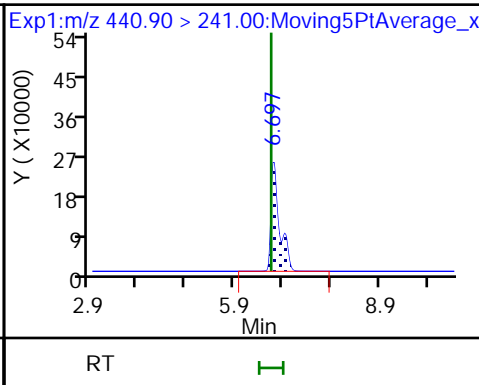
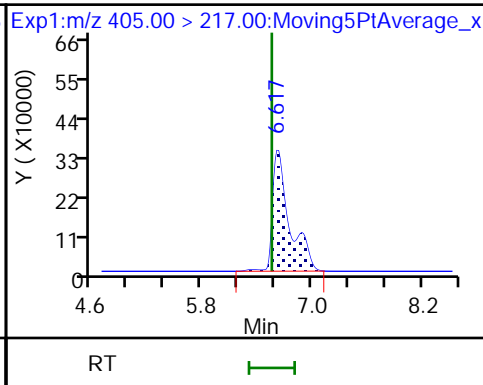
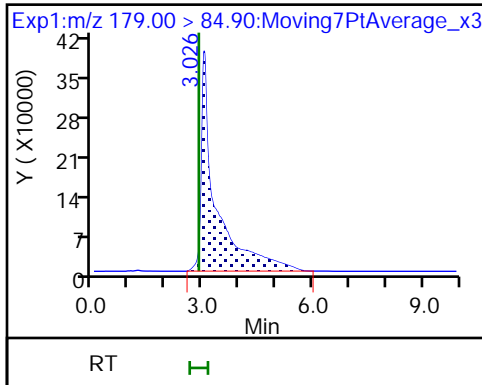
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

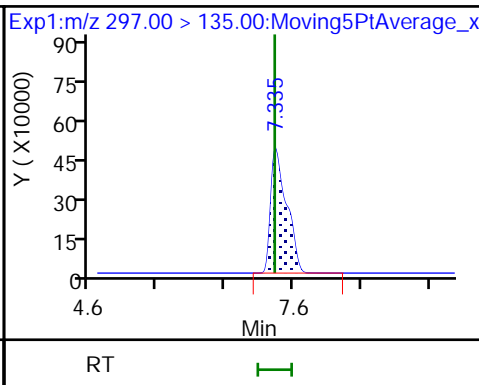
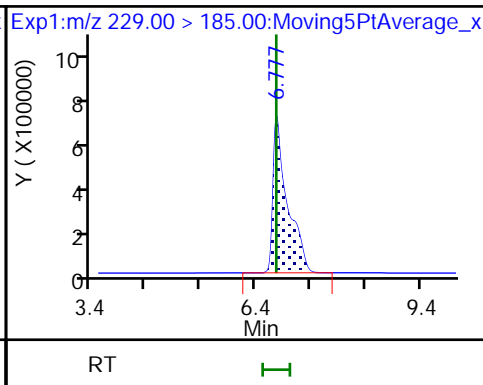
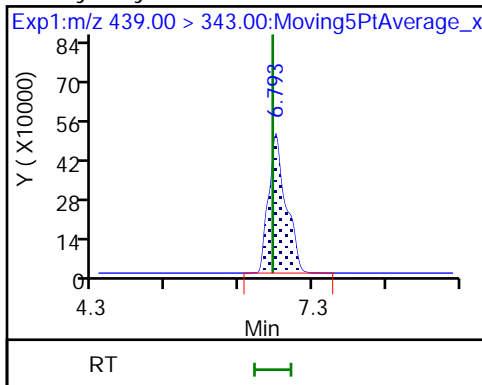
3 R-PSDA



4 Hydrolyzed PSDA

23 PMPA

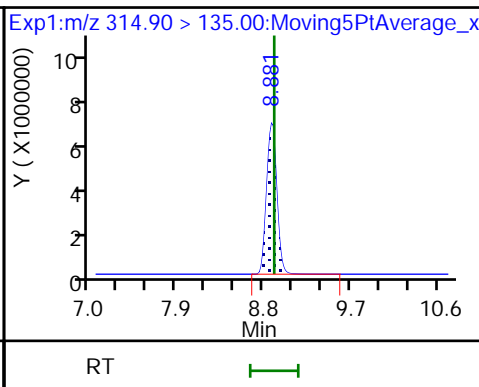
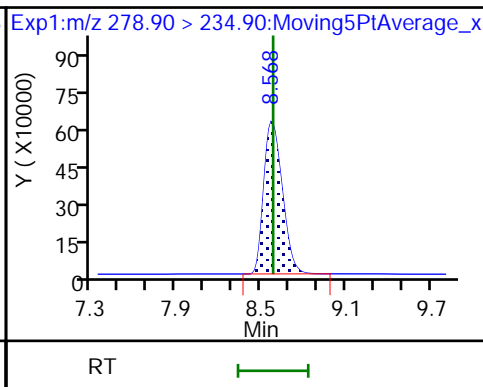
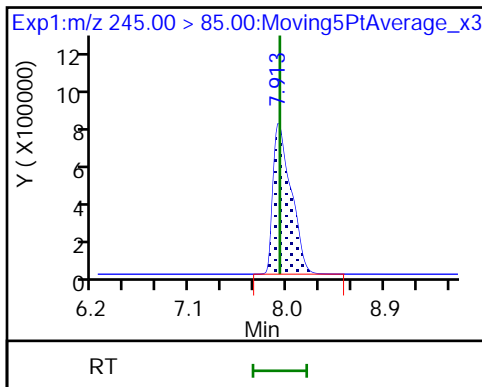
5 NVHOS



6 PFO2HxA

22 PEPA

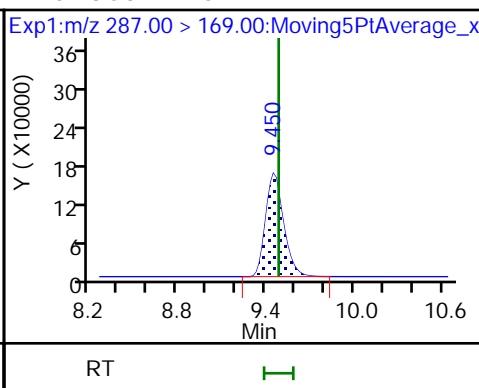
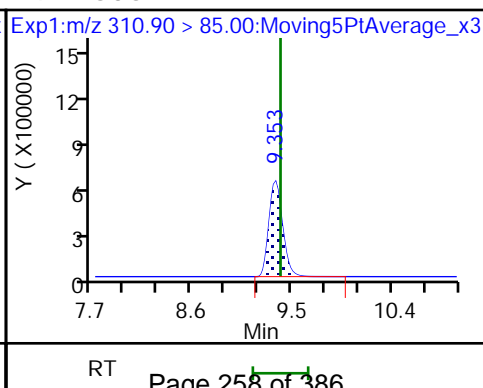
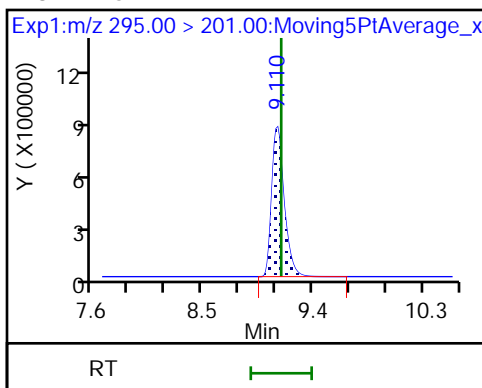
7 PES

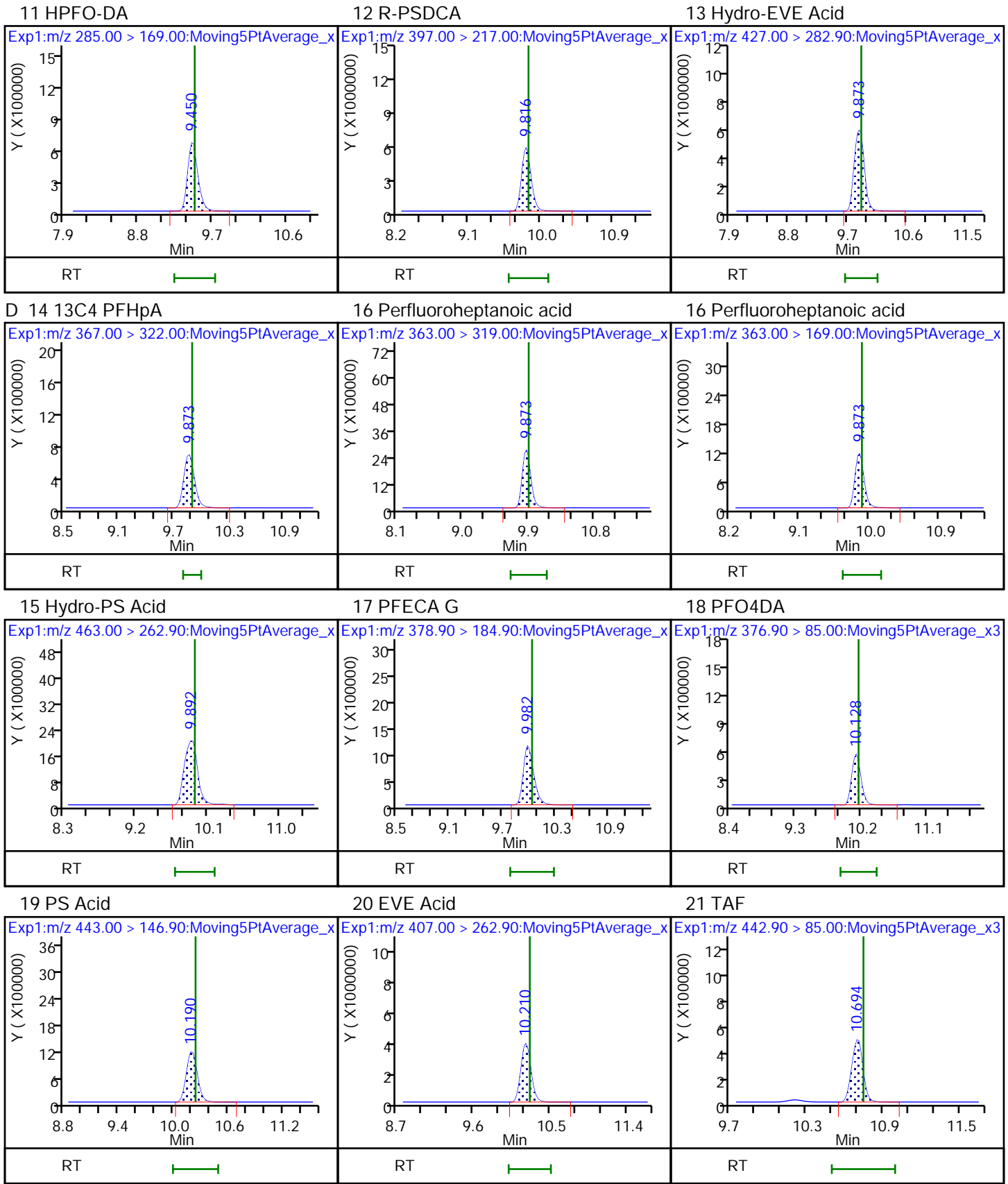


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

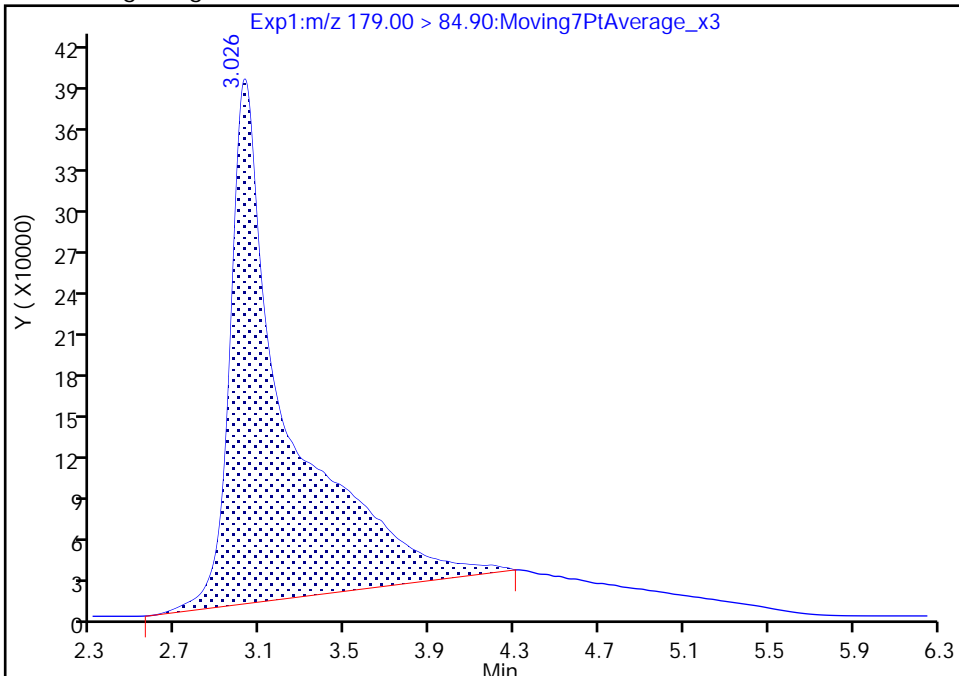
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
Injection Date: 20-Feb-2021 14:15:58 Instrument ID: A10  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

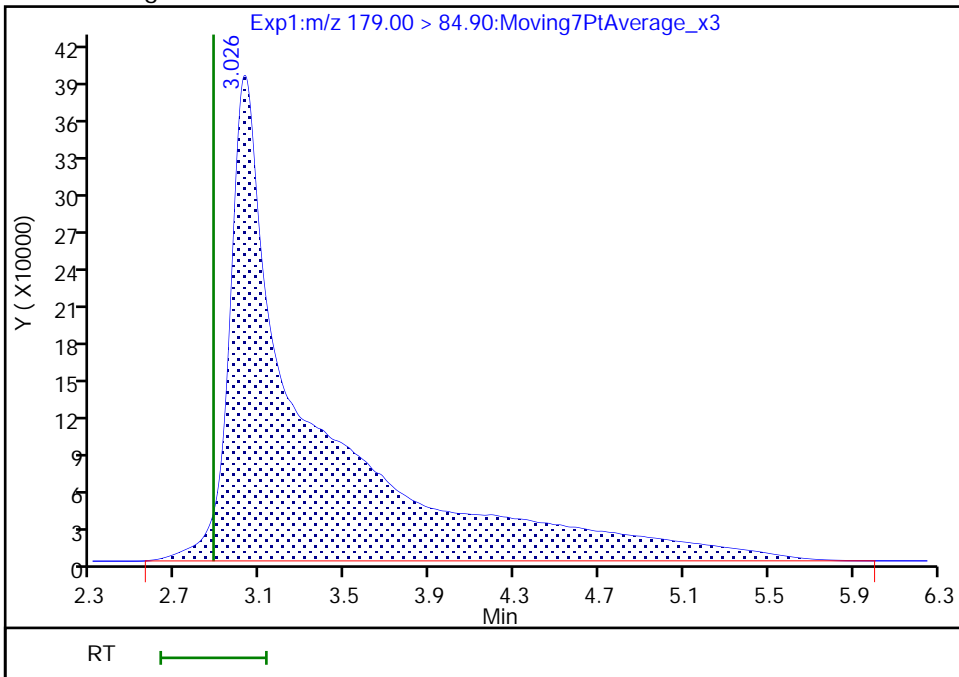
RT: 3.03  
Area: 7241022  
Amount: 0.746983  
Amount Units: ng/ml

Processing Integration Results



RT: 3.03  
Area: 10425782  
Amount: 1.041312  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:46:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

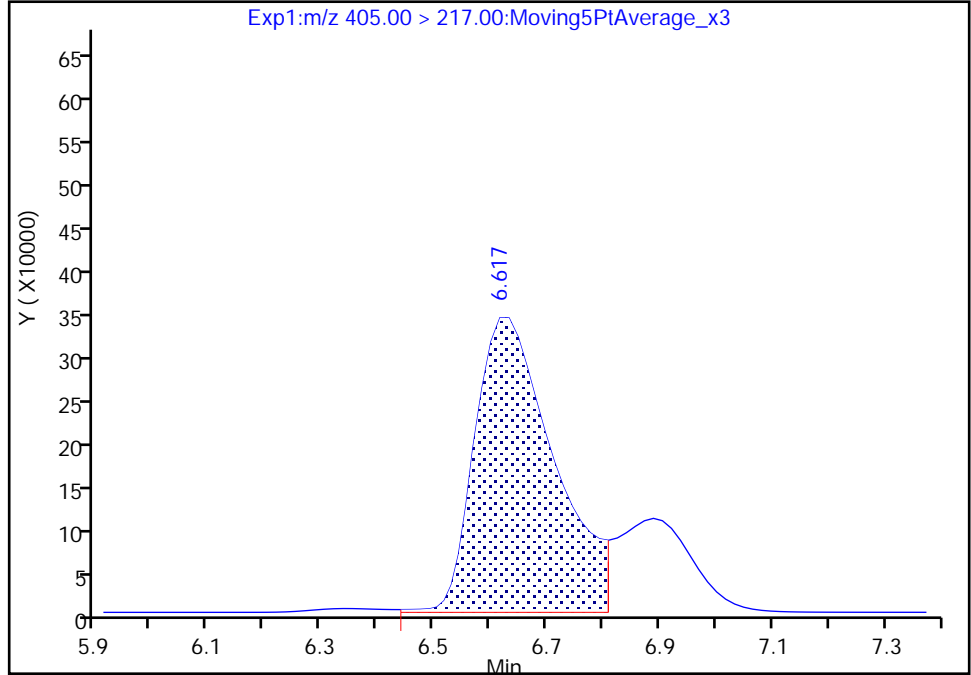
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
Injection Date: 20-Feb-2021 14:15:58 Instrument ID: A10  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 16 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

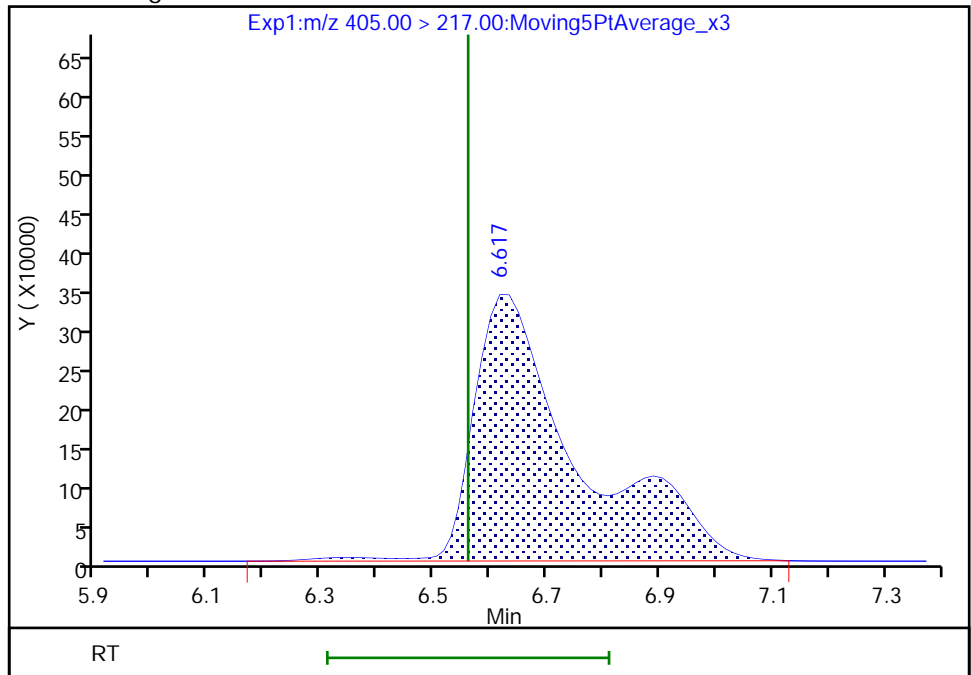
RT: 6.62  
Area: 3323637  
Amount: 0.829722  
Amount Units: ng/ml

Processing Integration Results



RT: 6.62  
Area: 4342016  
Amount: 1.055466  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 14:46:32  
Audit Action: Manually Integrated

Calibration

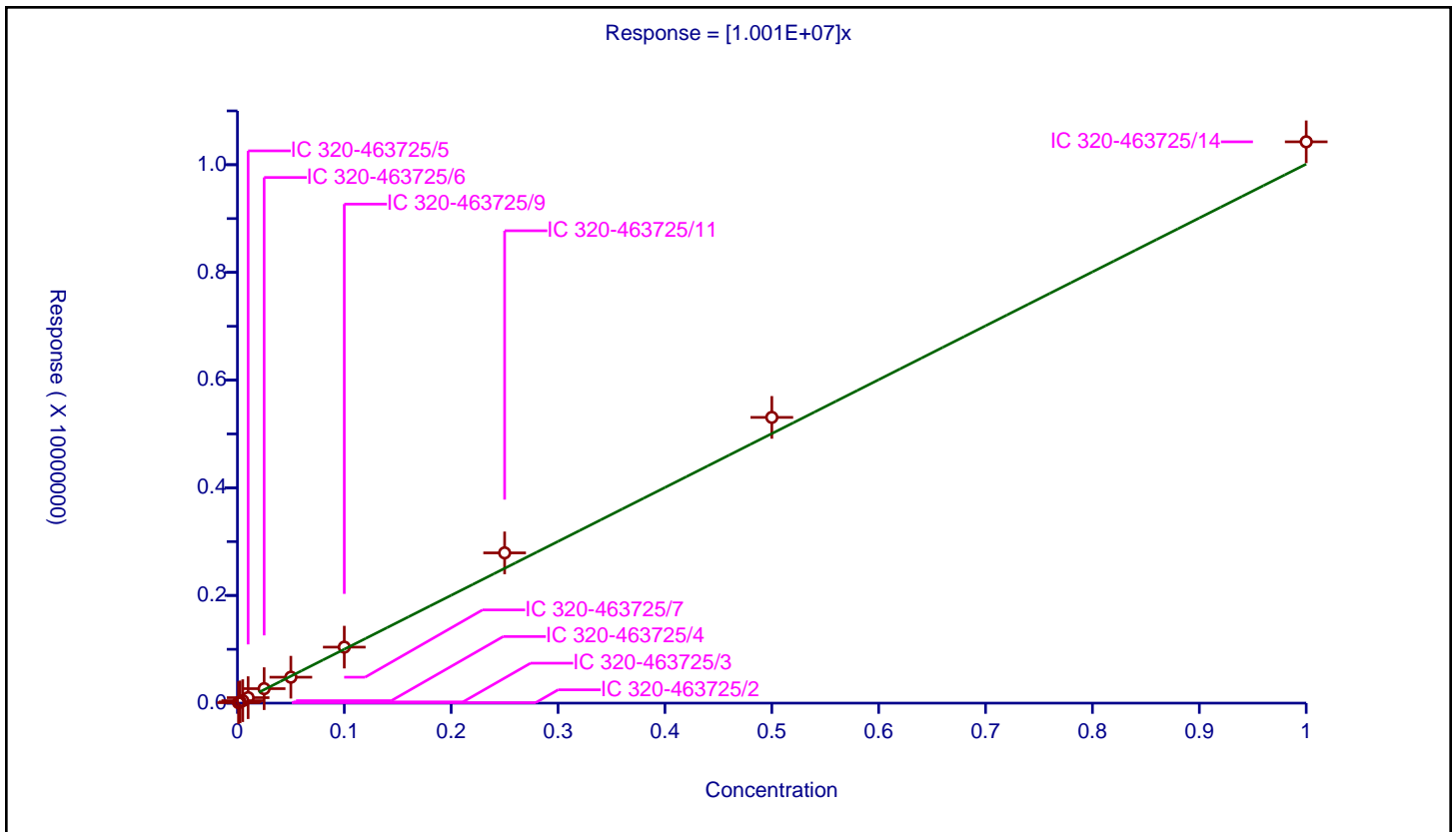
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.001E+07

Error Coefficients	
Standard Error:	196000
Relative Standard Error:	8.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	8669.0			8669000.0	Y
2	IC 320-463725/3	0.0025	22895.0			9158000.0	Y
3	IC 320-463725/4	0.005	45557.0			9111400.0	Y
4	IC 320-463725/5	0.01	101876.0			10187600.0	Y
5	IC 320-463725/6	0.025	268916.0			10756640.0	Y
6	IC 320-463725/7	0.05	481728.0			9634560.0	Y
7	IC 320-463725/9	0.1	1040127.0			10401270.0	Y
8	IC 320-463725/11	0.25	2790659.0			11162636.0	Y
9	IC 320-463725/13	0.5	5307368.0			10614736.0	Y
10	IC 320-463725/14	1.0	10425782.0			10425782.0	Y



**Calibration**

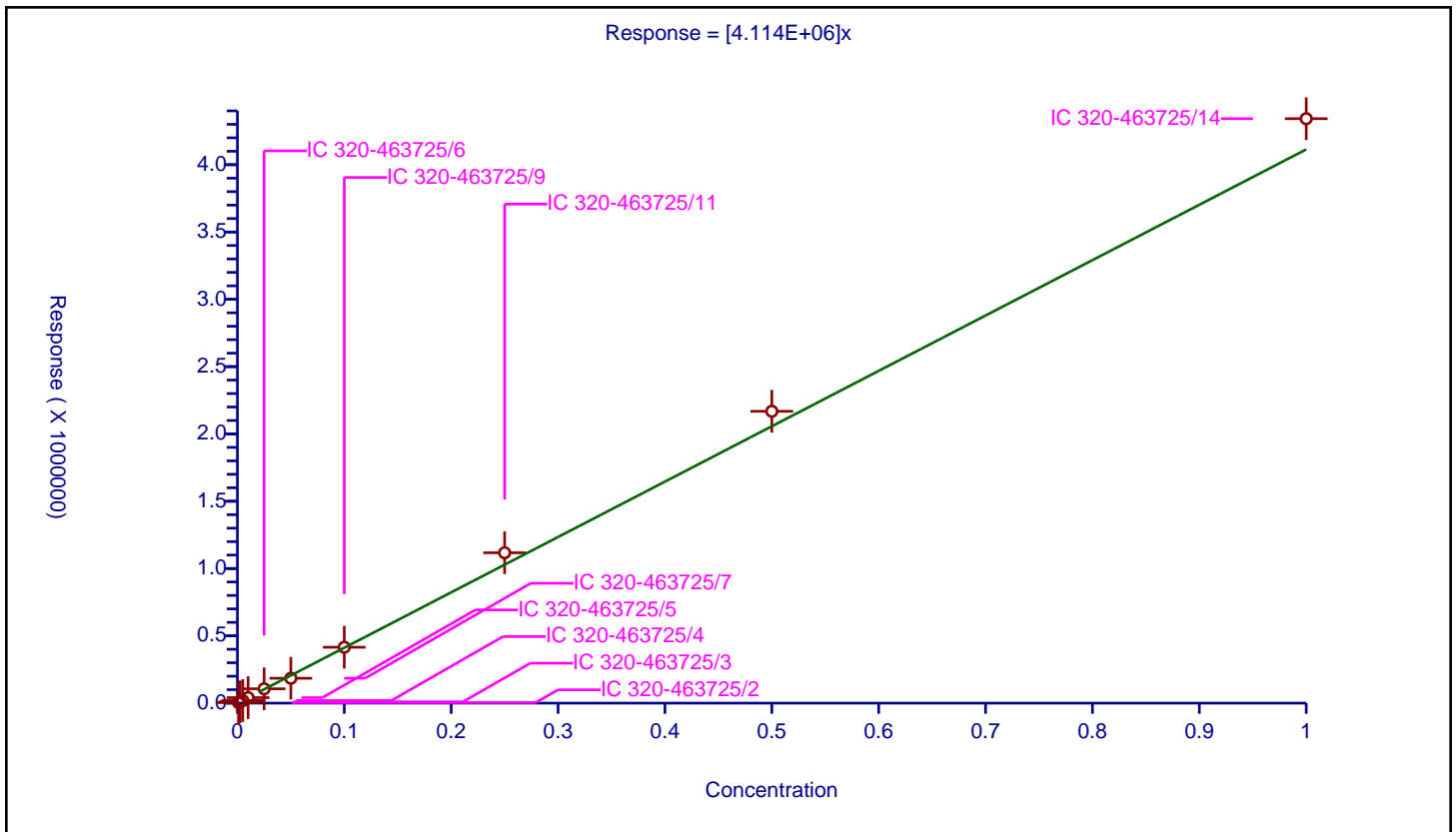
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.114E+06

Error Coefficients	
Standard Error:	89900
Relative Standard Error:	6.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	3909.0			3909000.0	Y
2	IC 320-463725/3	0.0025	10170.0			4068000.0	Y
3	IC 320-463725/4	0.005	19048.0			3809600.0	Y
4	IC 320-463725/5	0.01	40915.0			4091500.0	Y
5	IC 320-463725/6	0.025	106525.0			4261000.0	Y
6	IC 320-463725/7	0.05	184992.0			3699840.0	Y
7	IC 320-463725/9	0.1	415236.0			4152360.0	Y
8	IC 320-463725/11	0.25	1117148.0			4468592.0	Y
9	IC 320-463725/13	0.5	2168245.0			4336490.0	Y
10	IC 320-463725/14	1.0	4342016.0			4342016.0	Y



Calibration

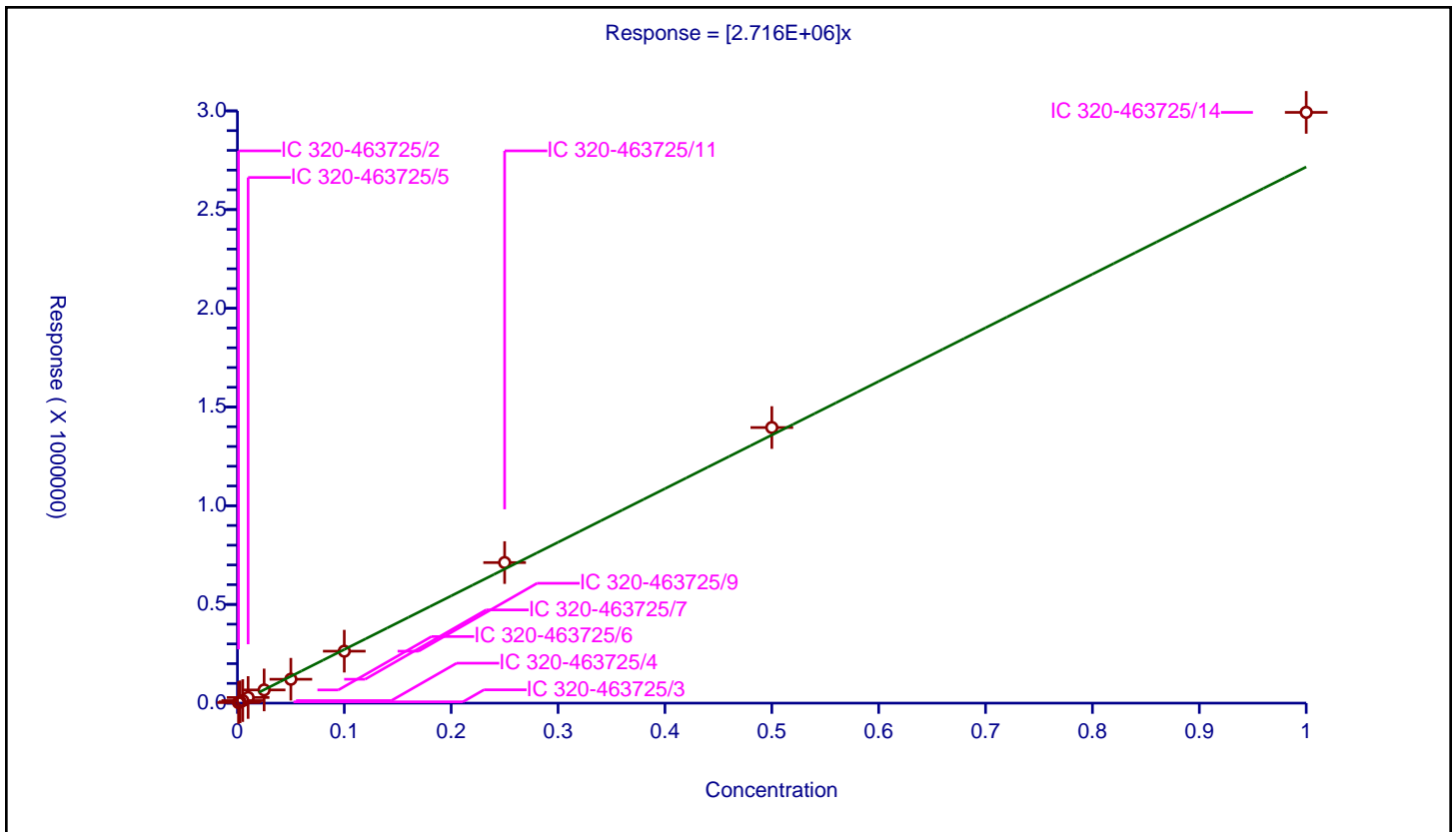
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.716E+06

Error Coefficients	
Standard Error:	93800
Relative Standard Error:	6.0
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	2728.0			2728000.0	Y
2	IC 320-463725/3	0.0025	6639.0			2655600.0	Y
3	IC 320-463725/4	0.005	12855.0			2571000.0	Y
4	IC 320-463725/5	0.01	28498.0			2849800.0	Y
5	IC 320-463725/6	0.025	66816.0			2672640.0	Y
6	IC 320-463725/7	0.05	121013.0			2420260.0	Y
7	IC 320-463725/9	0.1	263161.0			2631610.0	Y
8	IC 320-463725/11	0.25	711978.0			2847912.0	Y
9	IC 320-463725/13	0.5	1396049.0			2792098.0	Y
10	IC 320-463725/14	1.0	2992445.0			2992445.0	Y



**Calibration**

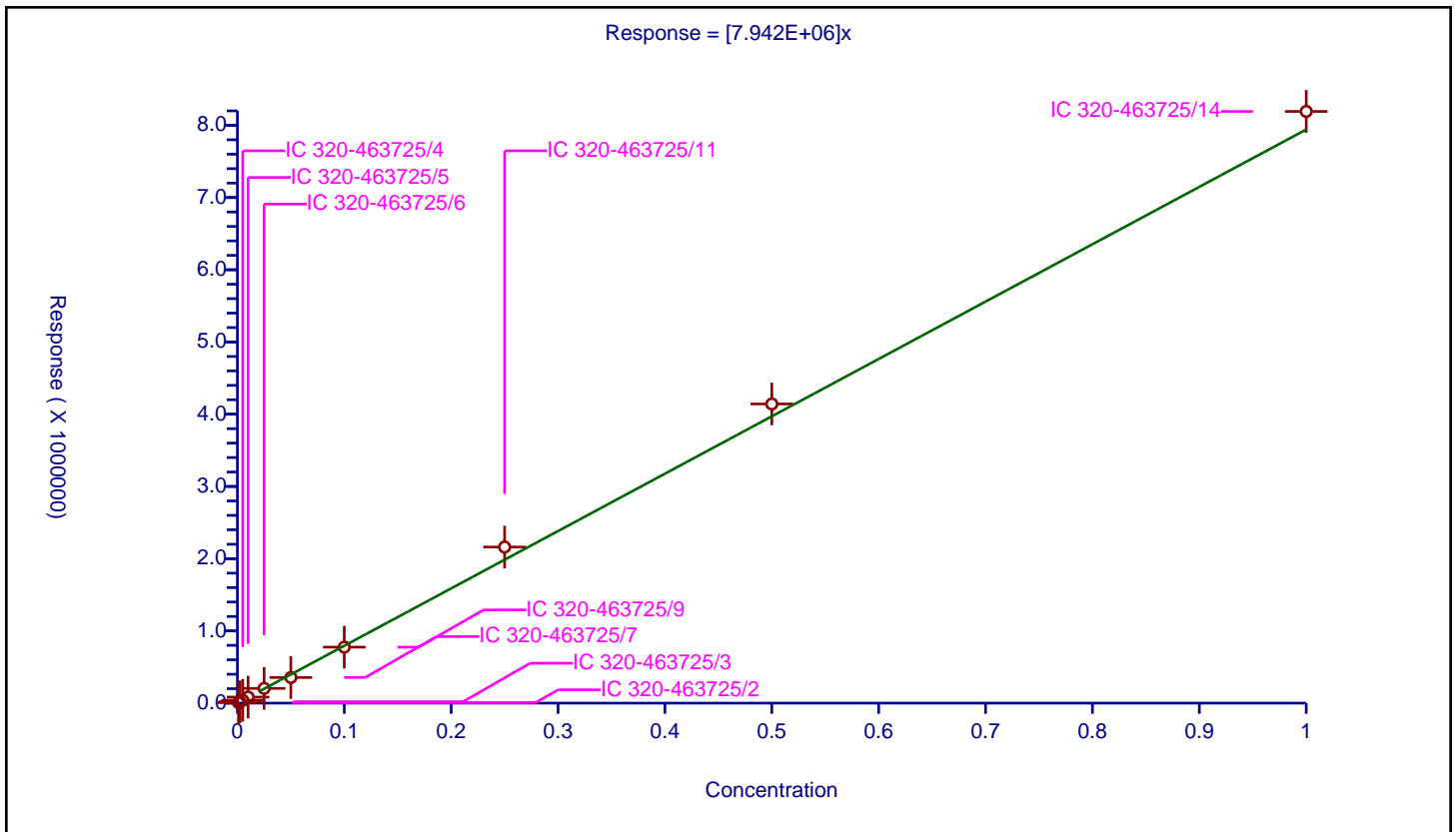
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.942E+06

Error Coefficients	
Standard Error:	118000
Relative Standard Error:	6.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	7023.0			7023000.0	Y
2	IC 320-463725/3	0.0025	19711.0			7884400.0	Y
3	IC 320-463725/4	0.005	39814.0			7962800.0	Y
4	IC 320-463725/5	0.01	84034.0			8403400.0	Y
5	IC 320-463725/6	0.025	204310.0			8172400.0	Y
6	IC 320-463725/7	0.05	354939.0			7098780.0	Y
7	IC 320-463725/9	0.1	775227.0			7752270.0	Y
8	IC 320-463725/11	0.25	2161209.0			8644836.0	Y
9	IC 320-463725/13	0.5	4142091.0			8284182.0	Y
10	IC 320-463725/14	1.0	8192250.0			8192250.0	Y



Calibration

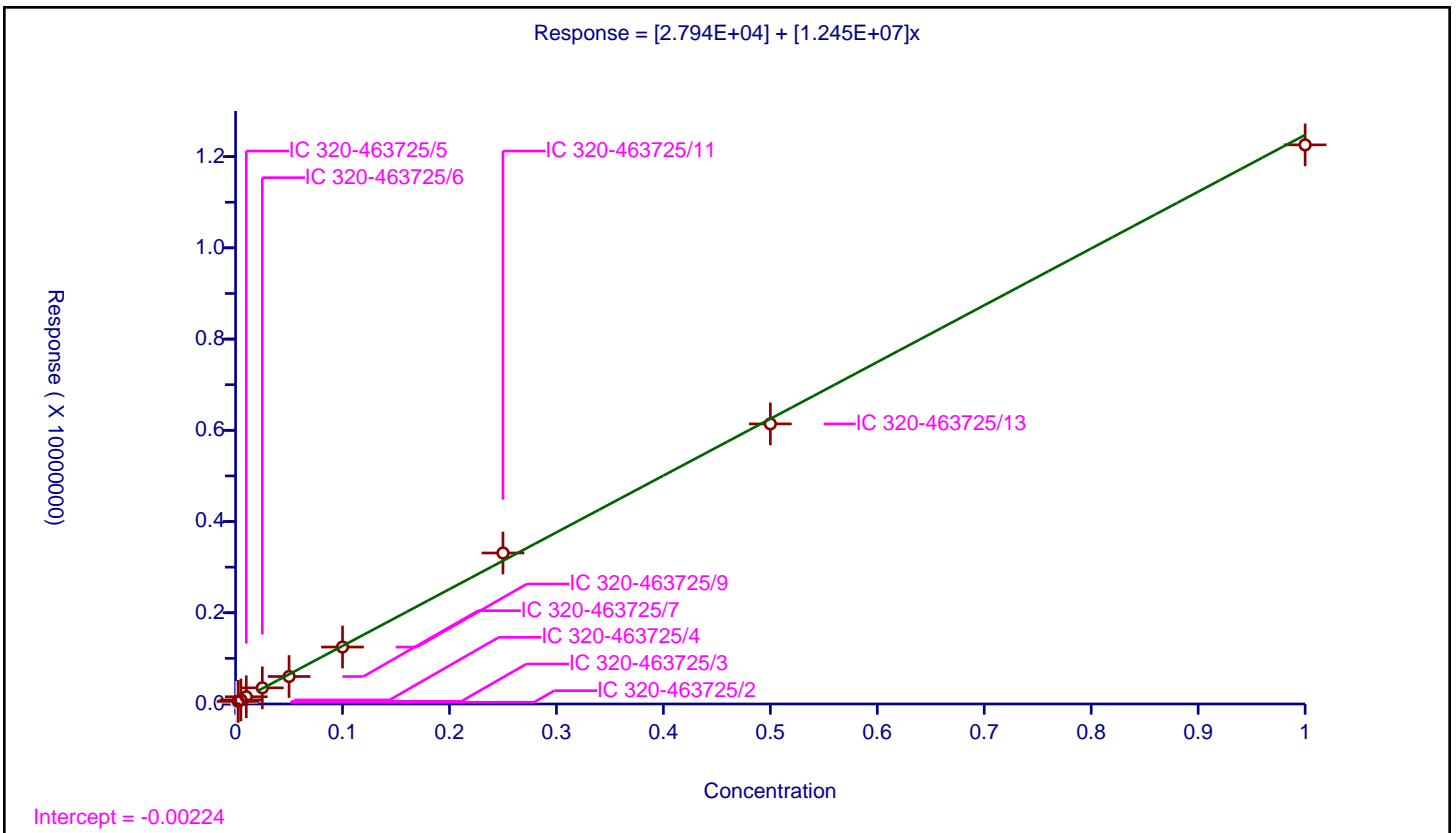
/ PMPA

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	2.794E+04
Slope:	1.245E+07

Error Coefficients	
Standard Error:	115000
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	37469.0			37469000.0	N
2	IC 320-463725/3	0.0025	58856.0			23542400.0	Y
3	IC 320-463725/4	0.005	89382.0			17876400.0	Y
4	IC 320-463725/5	0.01	158466.0			15846600.0	Y
5	IC 320-463725/6	0.025	353884.0			14155360.0	Y
6	IC 320-463725/7	0.05	602430.0			12048600.0	Y
7	IC 320-463725/9	0.1	1248534.0			12485340.0	Y
8	IC 320-463725/11	0.25	3310637.0			13242548.0	Y
9	IC 320-463725/13	0.5	6140870.0			12281740.0	Y
10	IC 320-463725/14	1.0	12257867.0			12257867.0	Y



Calibration

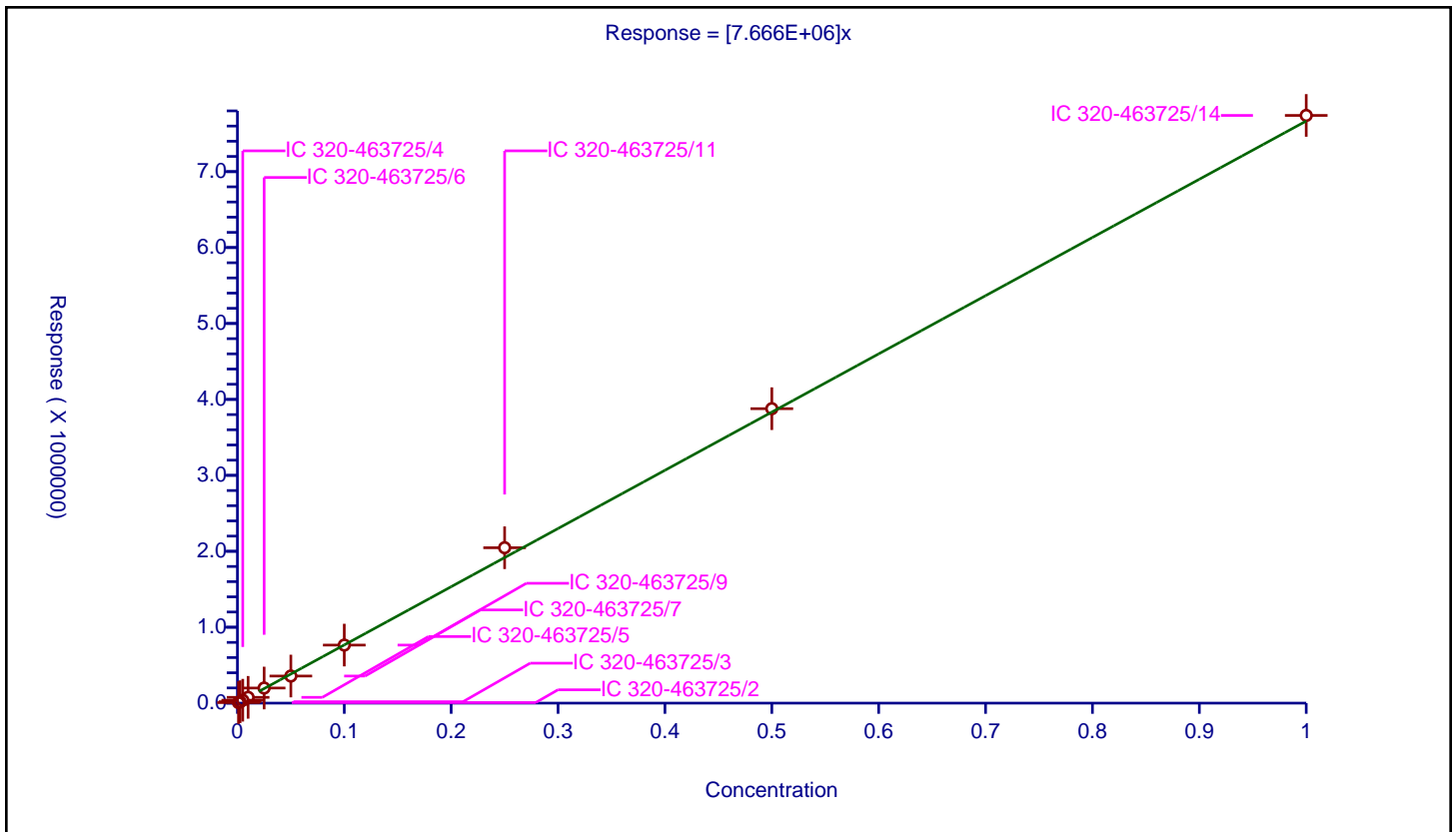
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.666E+06

Error Coefficients	
Standard Error:	52800
Relative Standard Error:	3.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	7358.0			7358000.0	Y
2	IC 320-463725/3	0.0025	18941.0			7576400.0	Y
3	IC 320-463725/4	0.005	38344.0			7668800.0	Y
4	IC 320-463725/5	0.01	76344.0			7634400.0	Y
5	IC 320-463725/6	0.025	199020.0			7960800.0	Y
6	IC 320-463725/7	0.05	356773.0			7135460.0	Y
7	IC 320-463725/9	0.1	764583.0			7645830.0	Y
8	IC 320-463725/11	0.25	2046633.0			8186532.0	Y
9	IC 320-463725/13	0.5	3878158.0			7756316.0	Y
10	IC 320-463725/14	1.0	7739869.0			7739869.0	Y





Calibration

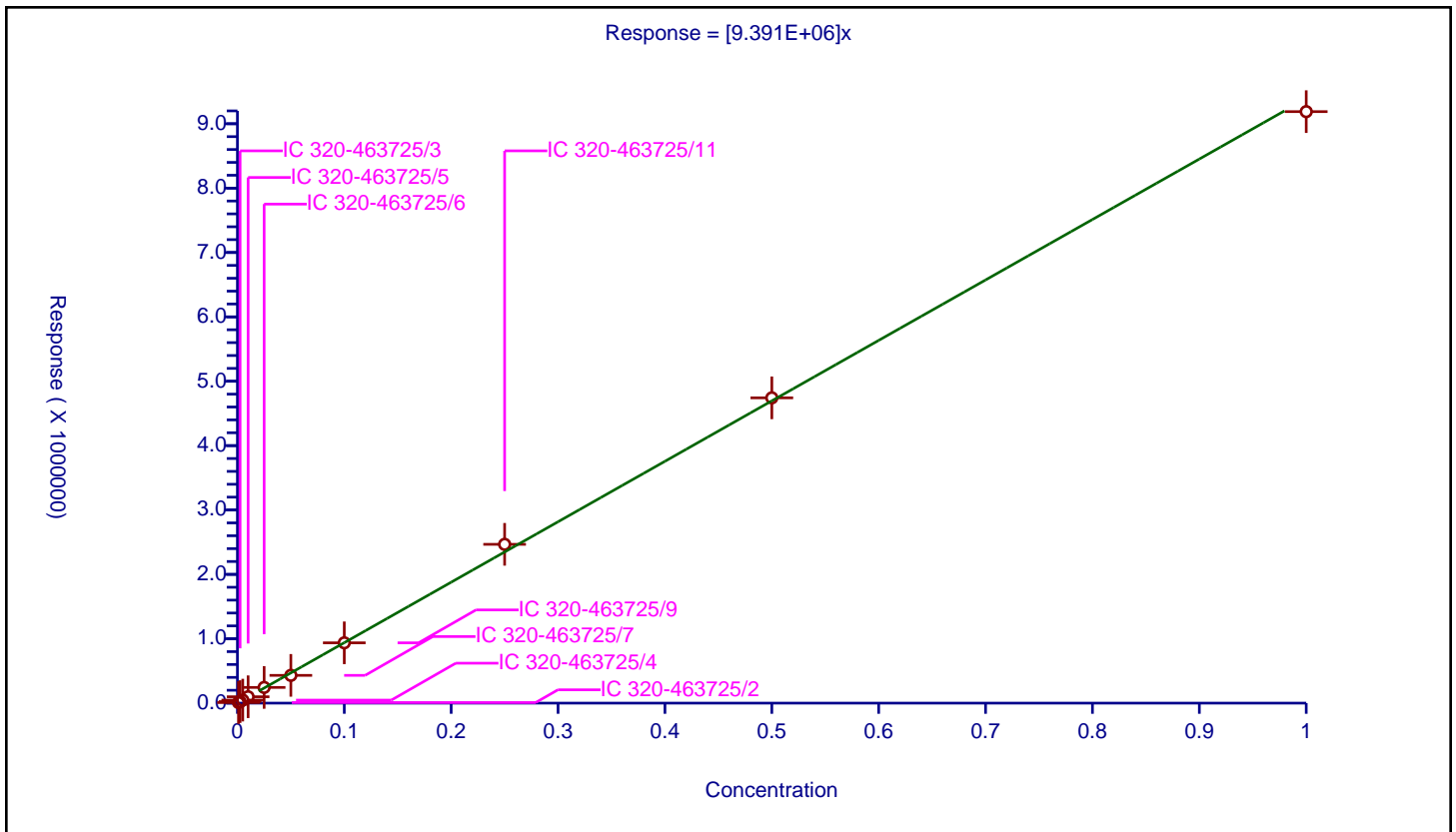
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.391E+06

Error Coefficients	
Standard Error:	81000
Relative Standard Error:	4.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	8834.0			8834000.0	Y
2	IC 320-463725/3	0.0025	23768.0			9507200.0	Y
3	IC 320-463725/4	0.005	46864.0			9372800.0	Y
4	IC 320-463725/5	0.01	98961.0			9896100.0	Y
5	IC 320-463725/6	0.025	244055.0			9762200.0	Y
6	IC 320-463725/7	0.05	431412.0			8628240.0	Y
7	IC 320-463725/9	0.1	936964.0			9369640.0	Y
8	IC 320-463725/11	0.25	2466870.0			9867480.0	Y
9	IC 320-463725/13	0.5	4742494.0			9484988.0	Y
10	IC 320-463725/14	1.0	9188527.0			9188527.0	Y



Calibration

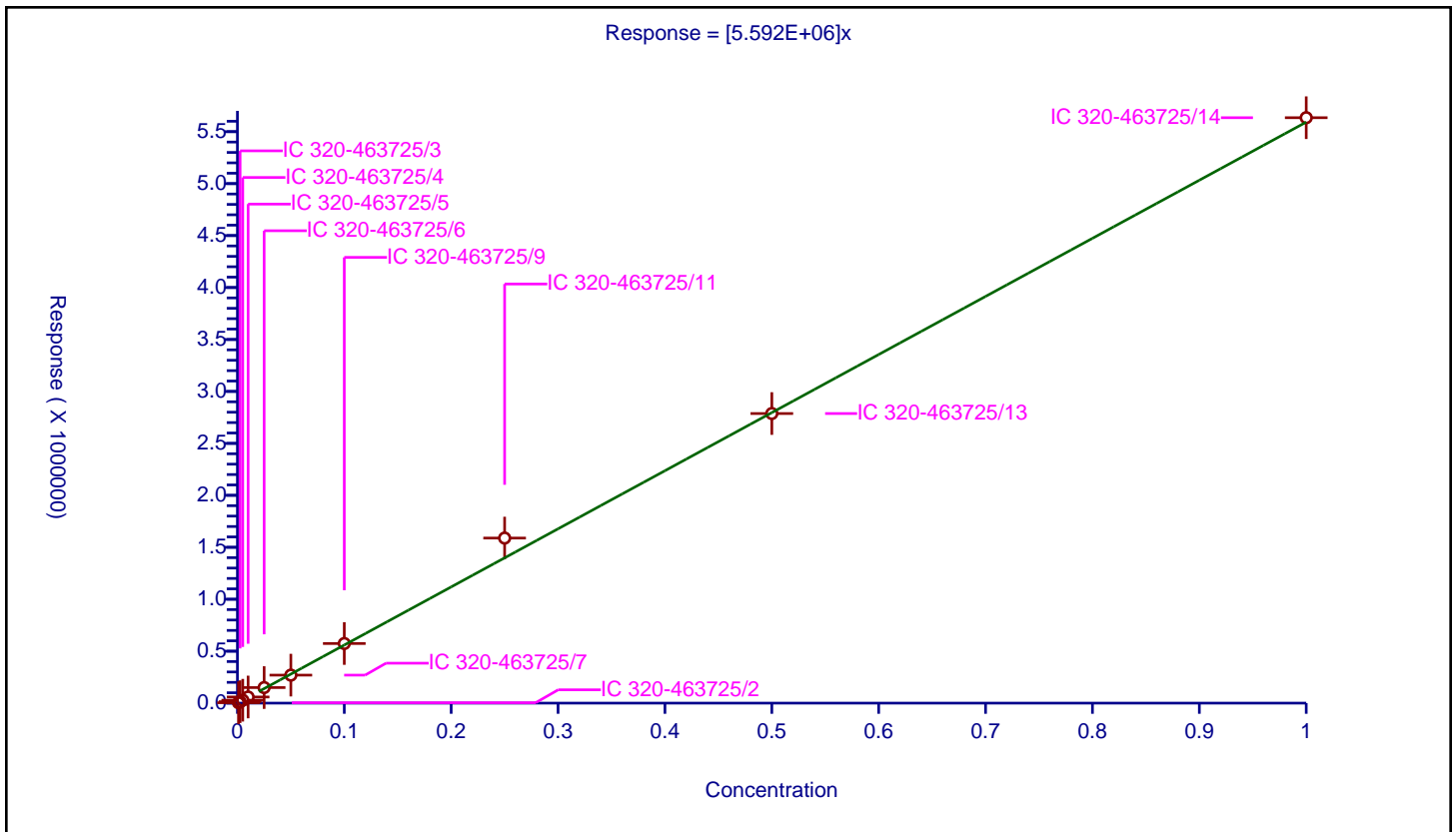
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.592E+06

Error Coefficients	
Standard Error:	65500
Relative Standard Error:	10.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	4097.0			4097000.0	Y
2	IC 320-463725/3	0.0025	14016.0			5606400.0	Y
3	IC 320-463725/4	0.005	28156.0			5631200.0	Y
4	IC 320-463725/5	0.01	59033.0			5903300.0	Y
5	IC 320-463725/6	0.025	149763.0			5990520.0	Y
6	IC 320-463725/7	0.05	269418.0			5388360.0	Y
7	IC 320-463725/9	0.1	573886.0			5738860.0	Y
8	IC 320-463725/11	0.25	1588572.0			6354288.0	Y
9	IC 320-463725/13	0.5	2787175.0			5574350.0	Y
10	IC 320-463725/14	1.0	5634472.0			5634472.0	Y



Calibration

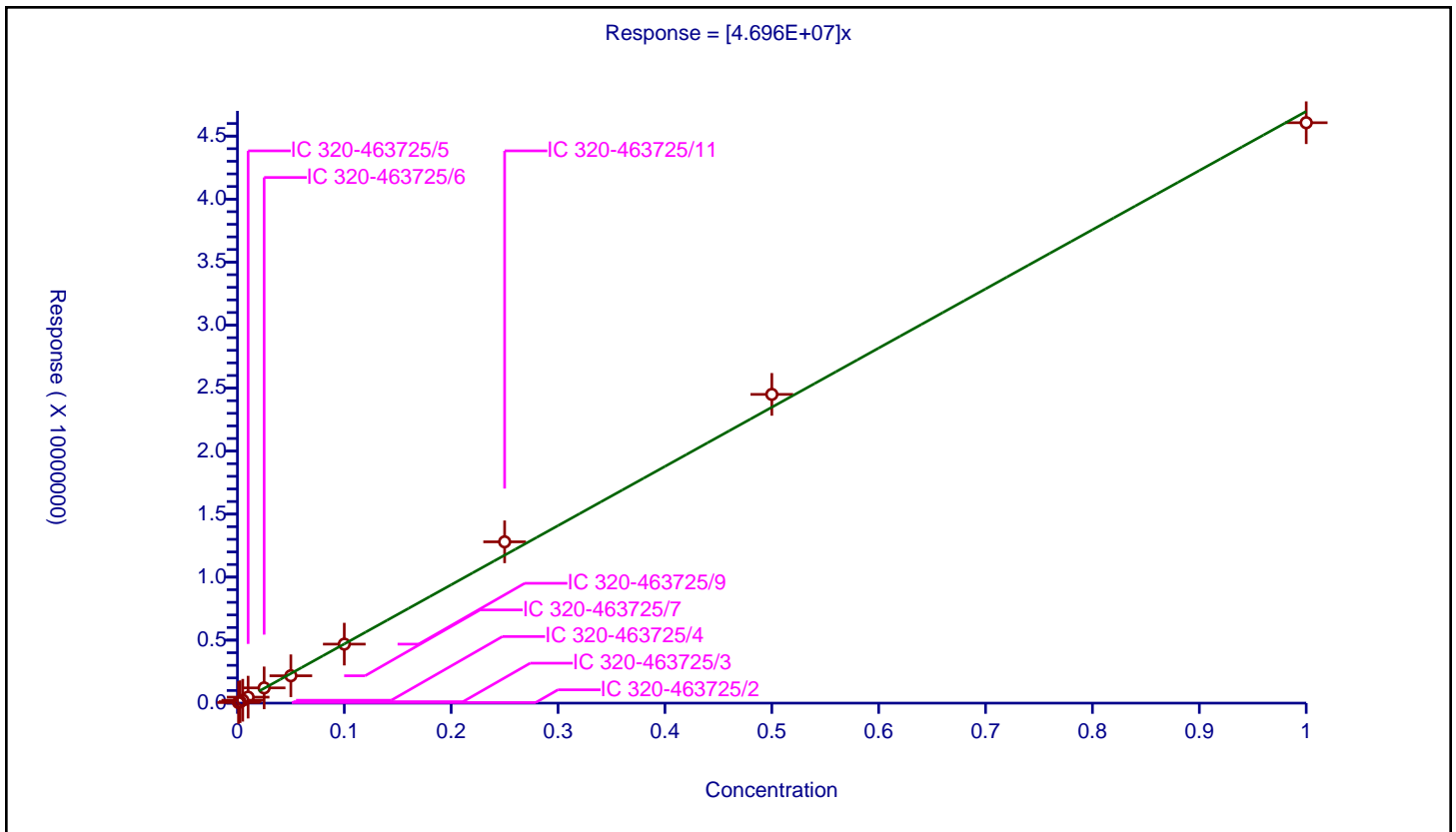
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.696E+07

Error Coefficients	
Standard Error:	578000
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	45461.0			45461000.0	Y
2	IC 320-463725/3	0.0025	114477.0			45790800.0	Y
3	IC 320-463725/4	0.005	230225.0			46045000.0	Y
4	IC 320-463725/5	0.01	473943.0			47394300.0	Y
5	IC 320-463725/6	0.025	1210385.0			48415400.0	Y
6	IC 320-463725/7	0.05	2171042.0			43420840.0	Y
7	IC 320-463725/9	0.1	4681826.0			46818260.0	Y
8	IC 320-463725/11	0.25	12801991.0			51207964.0	Y
9	IC 320-463725/13	0.5	24501744.0			49003488.0	Y
10	IC 320-463725/14	1.0	46061829.0			46061829.0	Y



Calibration

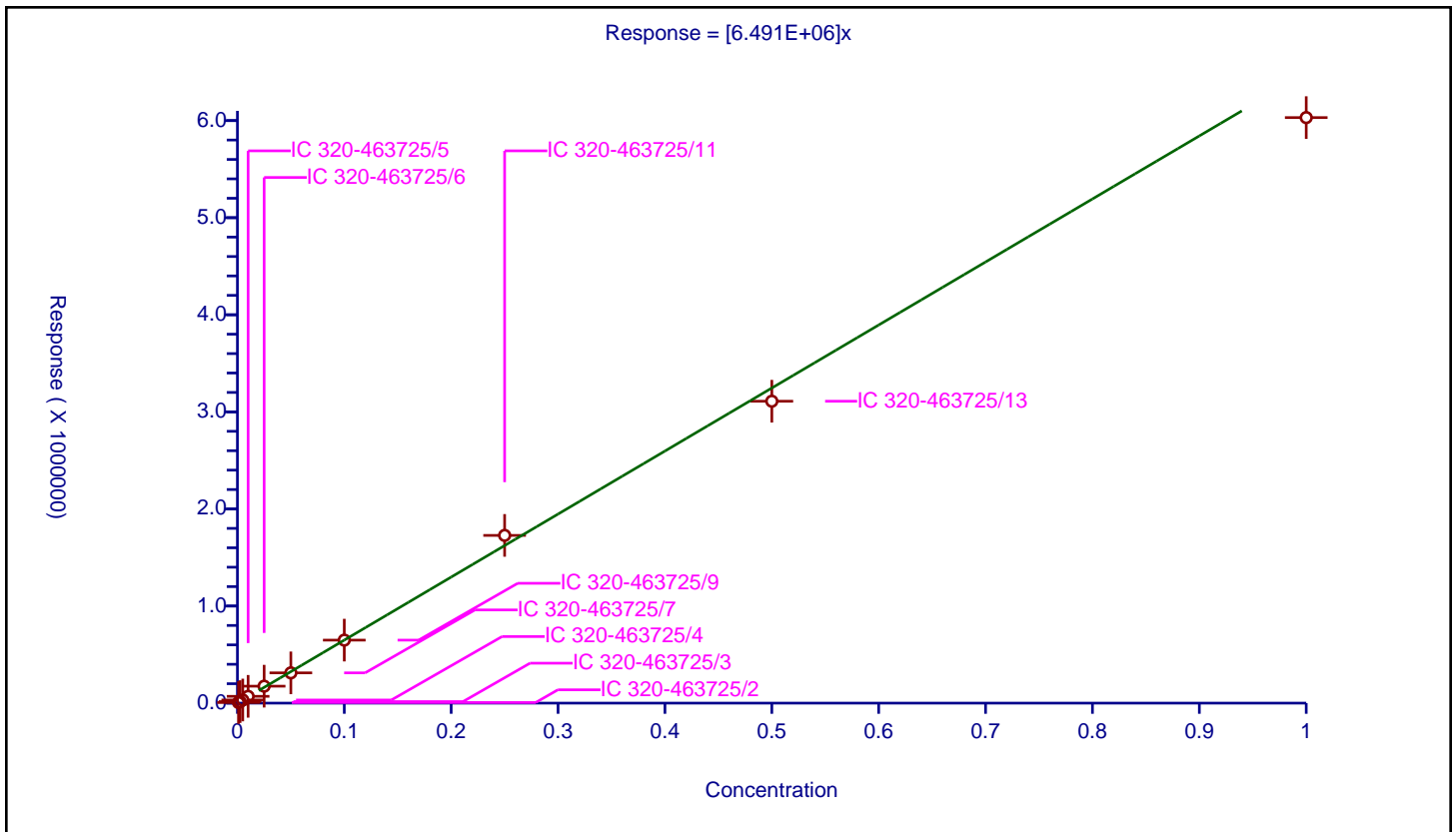
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.491E+06

Error Coefficients	
Standard Error:	164000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	6266.0			6266000.0	Y
2	IC 320-463725/3	0.0025	15847.0			6338800.0	Y
3	IC 320-463725/4	0.005	32125.0			6425000.0	Y
4	IC 320-463725/5	0.01	70172.0			7017200.0	Y
5	IC 320-463725/6	0.025	174522.0			6980880.0	Y
6	IC 320-463725/7	0.05	311663.0			6233260.0	Y
7	IC 320-463725/9	0.1	648972.0			6489720.0	Y
8	IC 320-463725/11	0.25	1727616.0			6910464.0	Y
9	IC 320-463725/13	0.5	3109719.0			6219438.0	Y
10	IC 320-463725/14	1.0	6030771.0			6030771.0	Y



Calibration

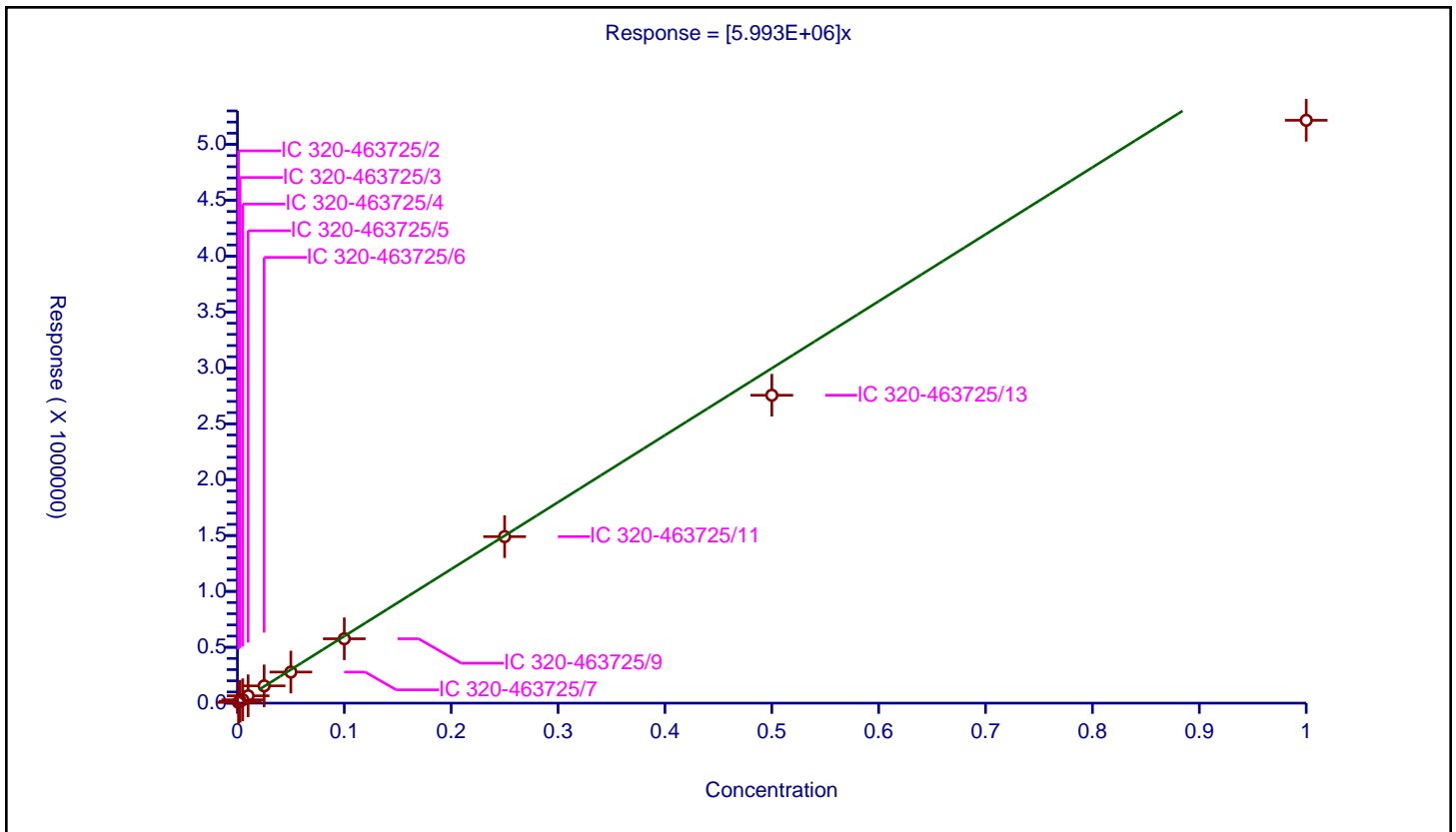
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.993E+06

Error Coefficients	
Standard Error:	272000
Relative Standard Error:	8.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	6555.0			6555000.0	Y
2	IC 320-463725/3	0.0025	16509.0			6603600.0	Y
3	IC 320-463725/4	0.005	30103.0			6020600.0	Y
4	IC 320-463725/5	0.01	65562.0			6556200.0	Y
5	IC 320-463725/6	0.025	154594.0			6183760.0	Y
6	IC 320-463725/7	0.05	278364.0			5567280.0	Y
7	IC 320-463725/9	0.1	576011.0			5760110.0	Y
8	IC 320-463725/11	0.25	1489930.0			5959720.0	Y
9	IC 320-463725/13	0.5	2755328.0			5510656.0	Y
10	IC 320-463725/14	1.0	5215960.0			5215960.0	Y



**Calibration**

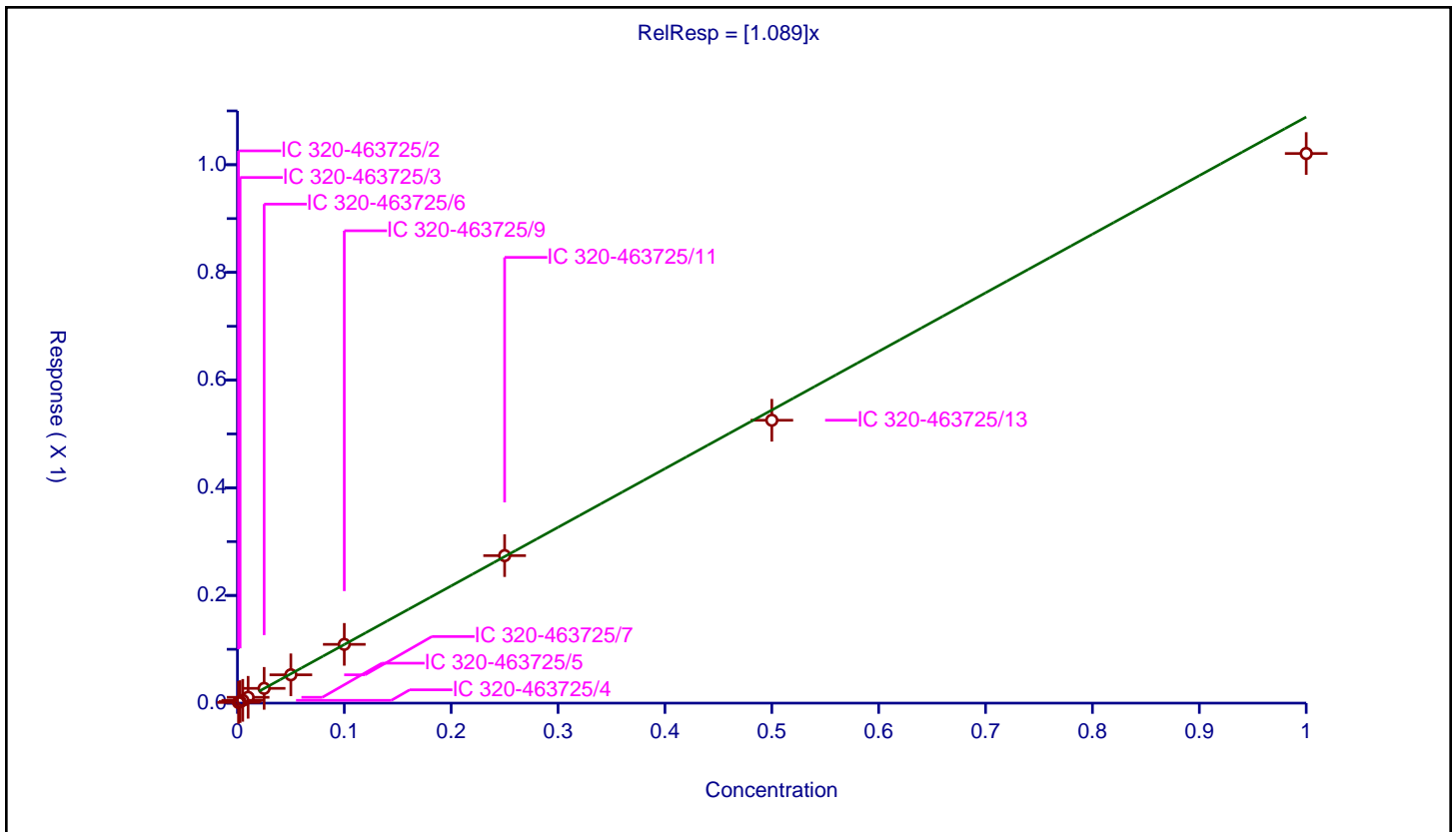
**/ Perfluoro(2-propoxypropanoic) acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	1.089

Error Coefficients	
Standard Error:	2190000
Relative Standard Error:	5.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-463725/2	0.001	0.001223	0.25	1286974.0	1.223412	Y
2	IC 320-463725/3	0.0025	0.002845	0.25	1397922.0	1.138189	Y
3	IC 320-463725/4	0.005	0.005173	0.25	1384745.0	1.034631	Y
4	IC 320-463725/5	0.01	0.010831	0.25	1446250.0	1.083146	Y
5	IC 320-463725/6	0.025	0.027415	0.25	1417532.0	1.096589	Y
6	IC 320-463725/7	0.05	0.052599	0.25	1316826.0	1.051984	Y
7	IC 320-463725/9	0.1	0.109128	0.25	1352132.0	1.091282	Y
8	IC 320-463725/11	0.25	0.274	0.25	1464624.0	1.095999	Y
9	IC 320-463725/13	0.5	0.525402	0.25	1391479.0	1.050805	Y
10	IC 320-463725/14	1.0	1.020852	0.25	1371993.0	1.020852	Y



Calibration

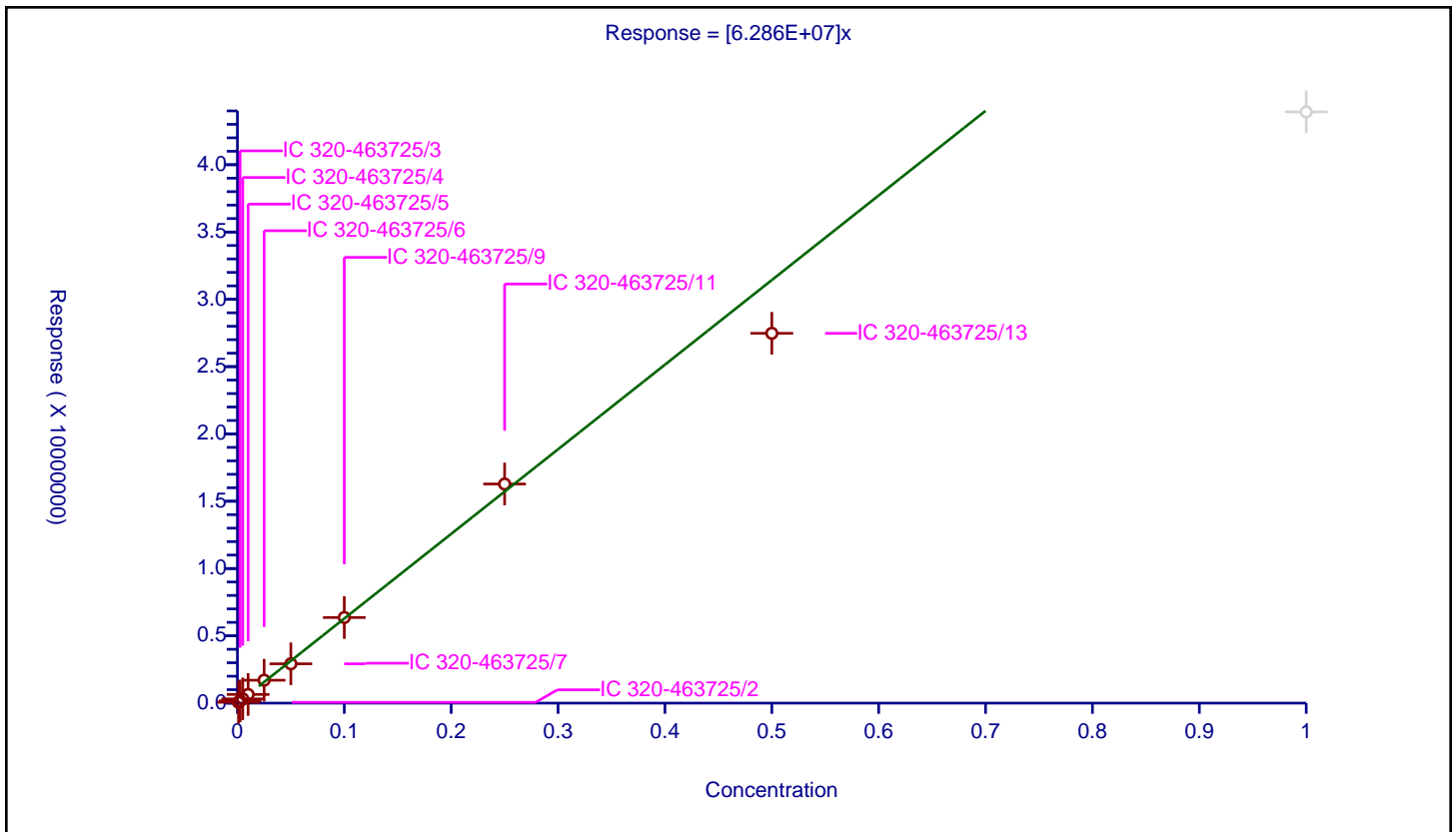
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.286E+07

Error Coefficients	
Standard Error:	1420000
Relative Standard Error:	6.2
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	62820.0			62820000.0	Y
2	IC 320-463725/3	0.0025	162762.0			65104800.0	Y
3	IC 320-463725/4	0.005	316538.0			63307600.0	Y
4	IC 320-463725/5	0.01	643460.0			64346000.0	Y
5	IC 320-463725/6	0.025	1702126.0			68085040.0	Y
6	IC 320-463725/7	0.05	2921351.0			58427020.0	Y
7	IC 320-463725/9	0.1	6360954.0			63609540.0	Y
8	IC 320-463725/11	0.25	16279200.0			65116800.0	Y
9	IC 320-463725/13	0.5	27475418.0			54950836.0	Y
10	IC 320-463725/14	1.0	43924298.0			43924298.0	N



**Calibration**

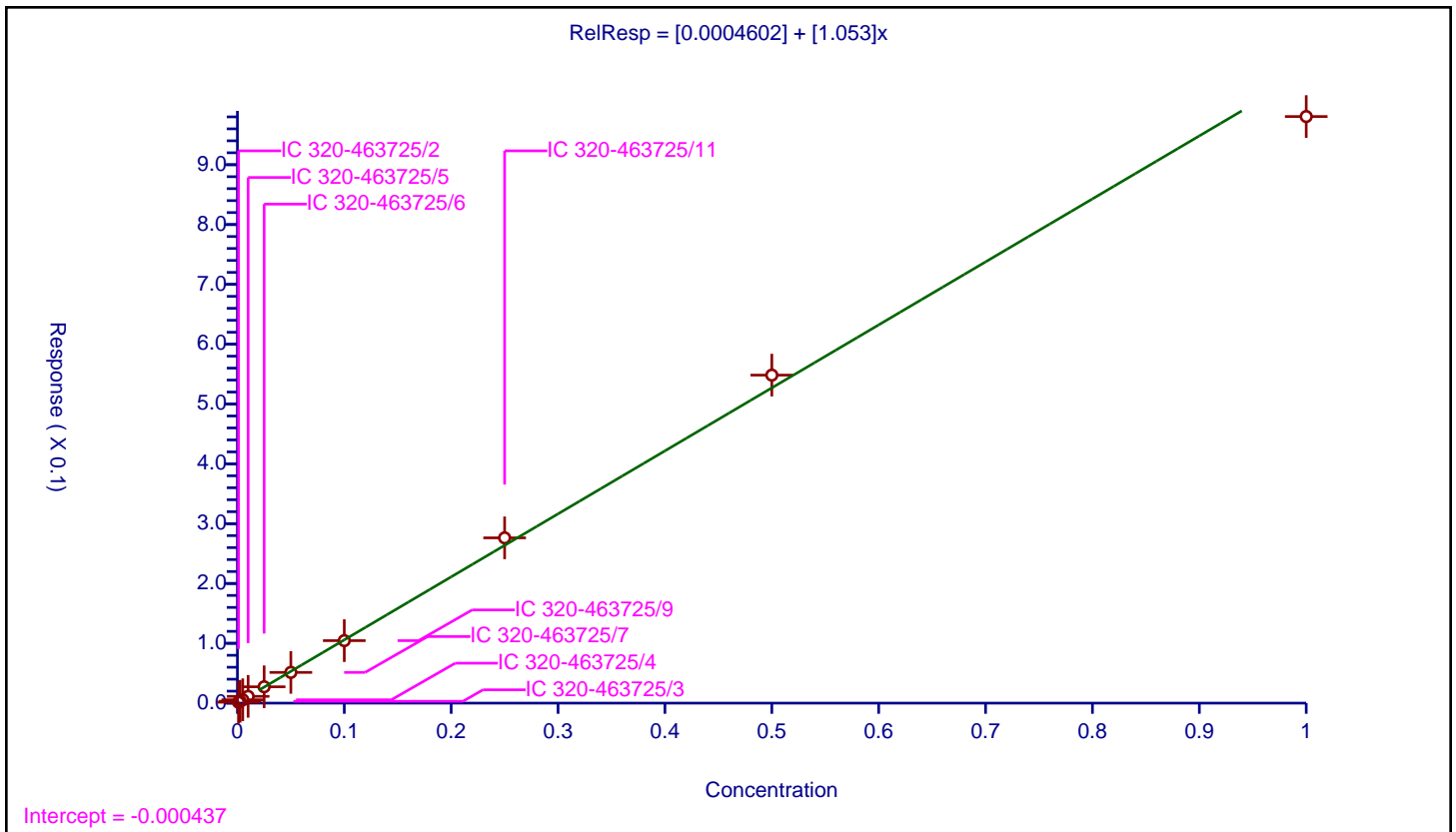
/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0004602
Slope:	1.053

Error Coefficients	
Standard Error:	9100000
Relative Standard Error:	3.9
Correlation Coefficient:	0.989
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-463725/2	0.001	0.001516	0.25	6655745.0	1.515871	Y
2	IC 320-463725/3	0.0025	0.00309	0.25	6658411.0	1.236106	Y
3	IC 320-463725/4	0.005	0.005578	0.25	6569203.0	1.115584	Y
4	IC 320-463725/5	0.01	0.011344	0.25	6693137.0	1.134393	Y
5	IC 320-463725/6	0.025	0.027304	0.25	6667341.0	1.092148	Y
6	IC 320-463725/7	0.05	0.051363	0.25	6288217.0	1.027255	Y
7	IC 320-463725/9	0.1	0.104475	0.25	6461952.0	1.044755	Y
8	IC 320-463725/11	0.25	0.276261	0.25	6413461.0	1.105045	Y
9	IC 320-463725/13	0.5	0.548316	0.25	5730872.0	1.096631	Y
10	IC 320-463725/14	1.0	0.980565	0.25	5378682.0	0.980565	Y





**Calibration**

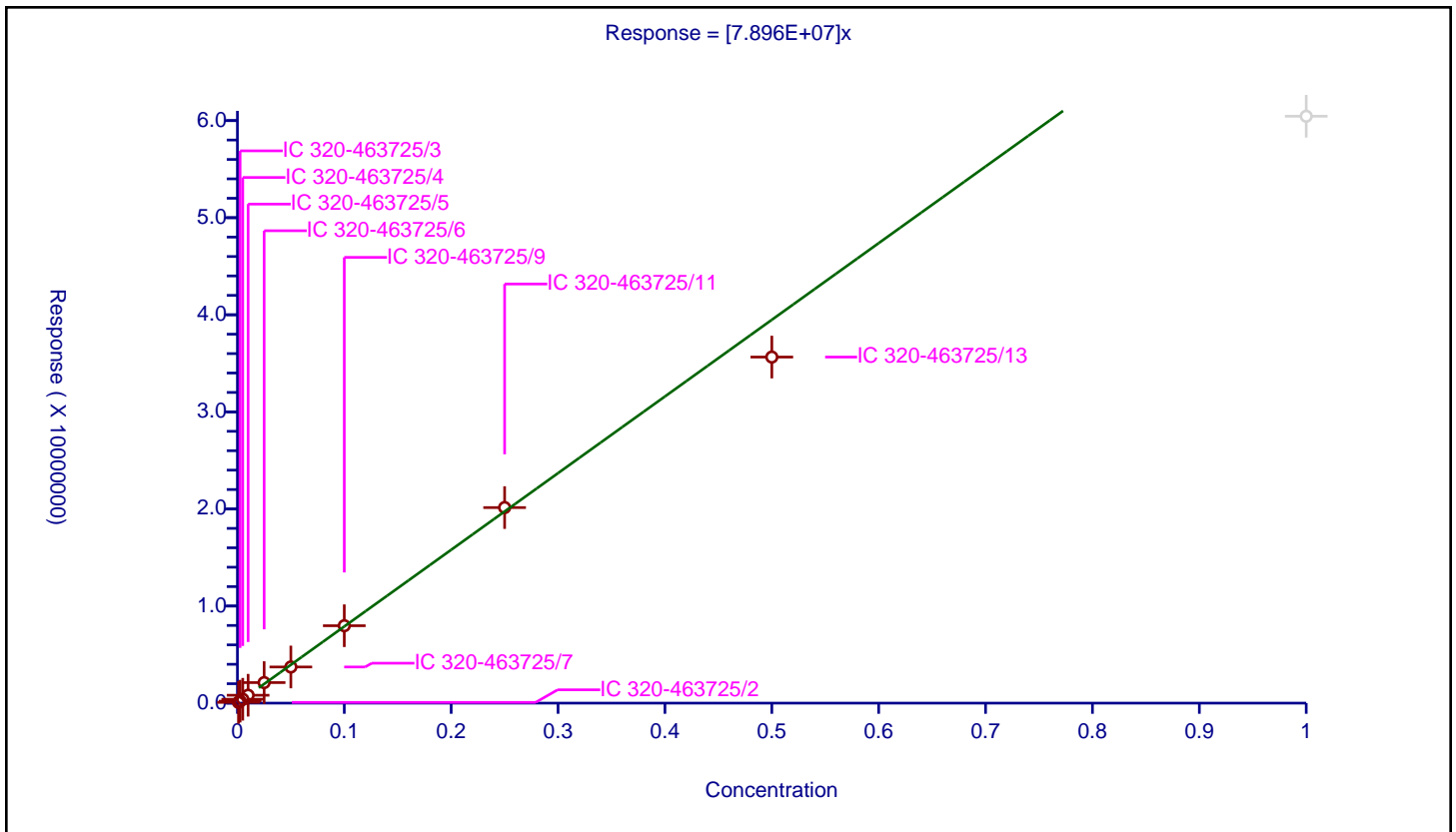
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.896E+07

Error Coefficients	
Standard Error:	1370000
Relative Standard Error:	5.0
Correlation Coefficient:	0.996
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	77876.0			77876000.0	Y
2	IC 320-463725/3	0.0025	202272.0			80908800.0	Y
3	IC 320-463725/4	0.005	399155.0			79831000.0	Y
4	IC 320-463725/5	0.01	813726.0			81372600.0	Y
5	IC 320-463725/6	0.025	2115938.0			84637520.0	Y
6	IC 320-463725/7	0.05	3722867.0			74457340.0	Y
7	IC 320-463725/9	0.1	7972300.0			79723000.0	Y
8	IC 320-463725/11	0.25	20142203.0			80568812.0	Y
9	IC 320-463725/13	0.5	35643887.0			71287774.0	Y
10	IC 320-463725/14	1.0	60448615.0			60448615.0	N



**Calibration**

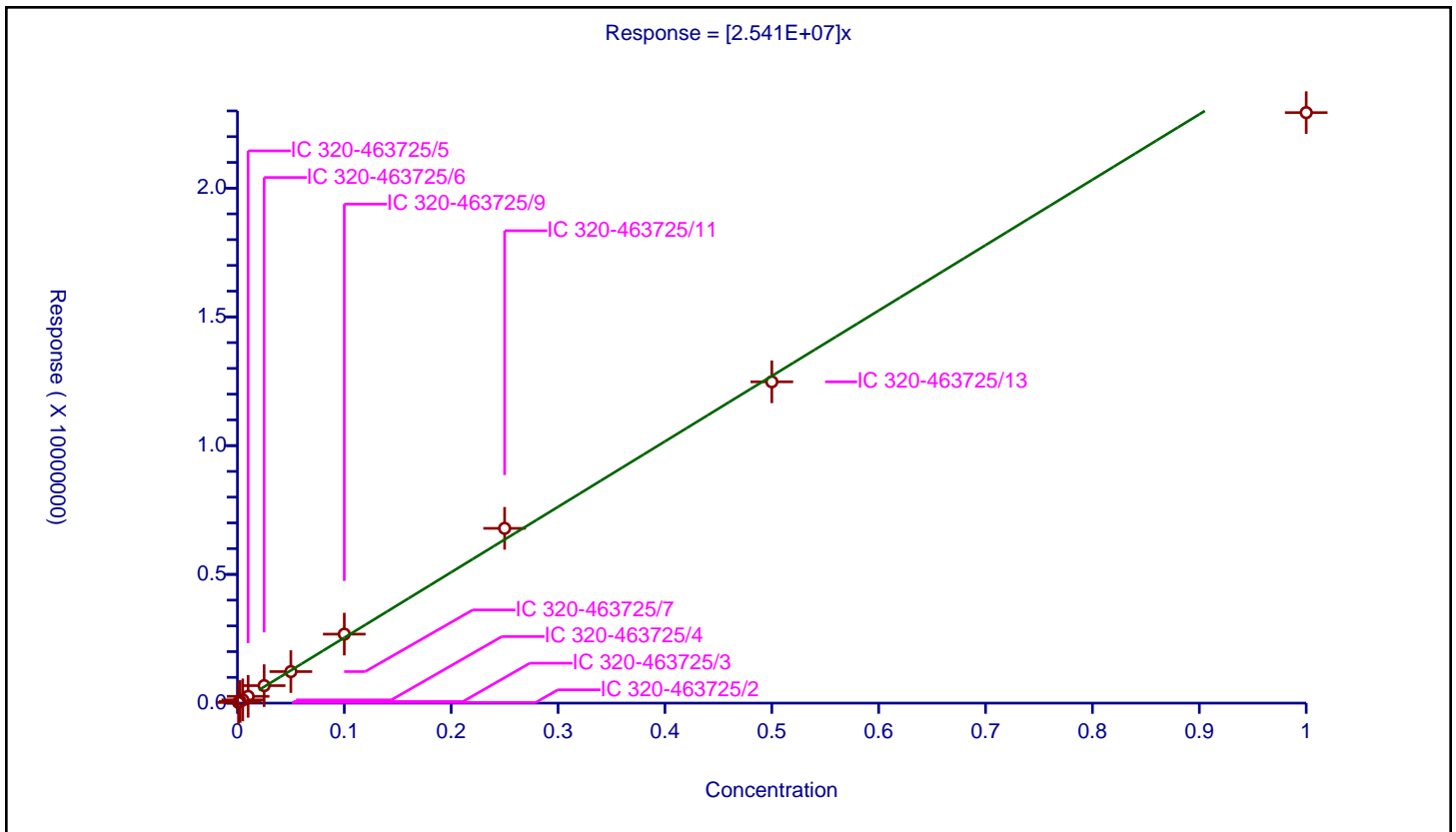
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.541E+07

Error Coefficients	
Standard Error:	843000
Relative Standard Error:	5.6
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	24096.0			24096000.0	Y
2	IC 320-463725/3	0.0025	63056.0			25222400.0	Y
3	IC 320-463725/4	0.005	124990.0			24998000.0	Y
4	IC 320-463725/5	0.01	262879.0			26287900.0	Y
5	IC 320-463725/6	0.025	679393.0			27175720.0	Y
6	IC 320-463725/7	0.05	1223808.0			24476160.0	Y
7	IC 320-463725/9	0.1	2679115.0			26791150.0	Y
8	IC 320-463725/11	0.25	6787712.0			27150848.0	Y
9	IC 320-463725/13	0.5	12479108.0			24958216.0	Y
10	IC 320-463725/14	1.0	22932681.0			22932681.0	Y



Calibration

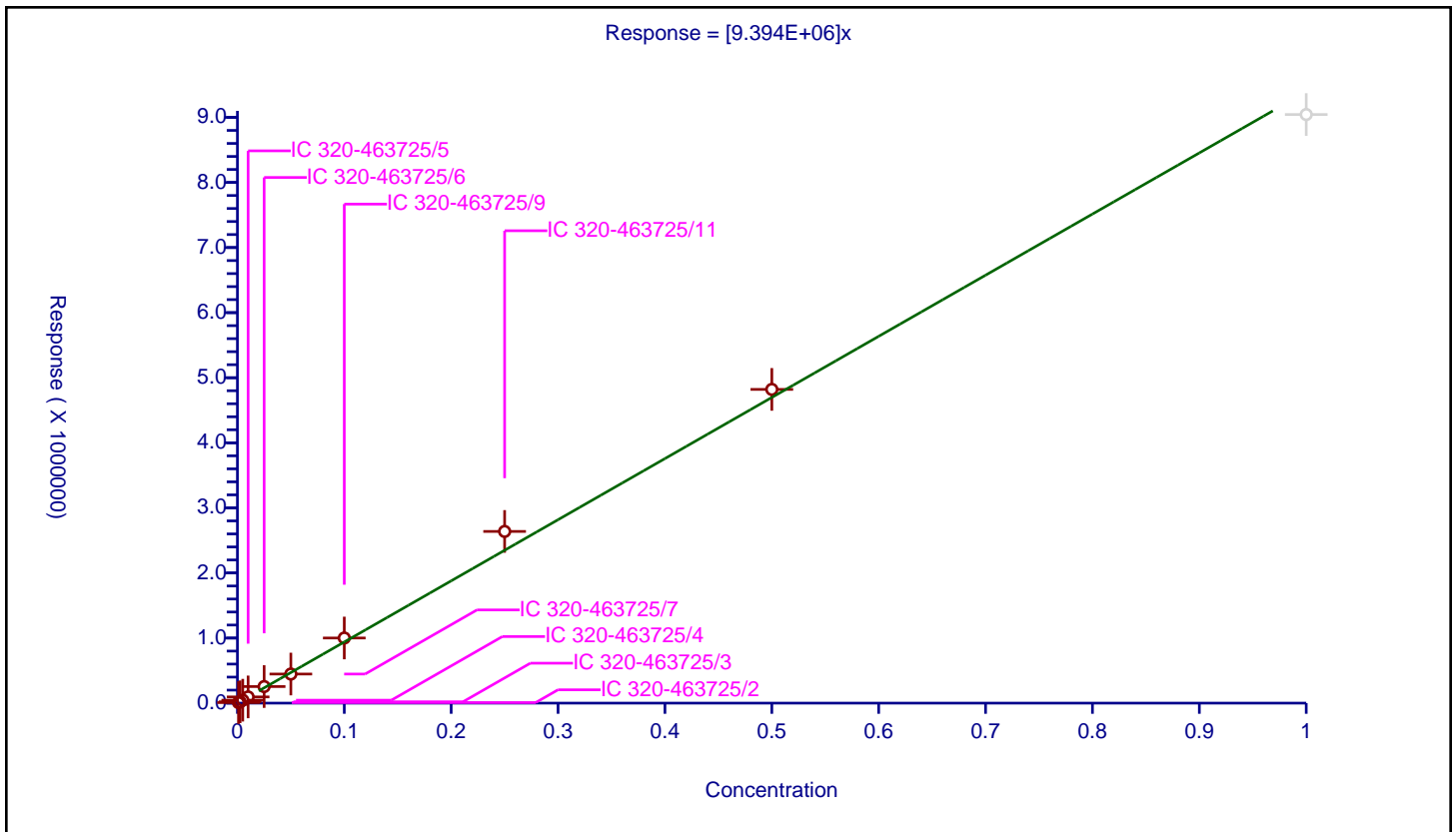
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	9.394E+06

Error Coefficients	
Standard Error:	114000
Relative Standard Error:	8.5
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	8436.0			8436000.0	Y
2	IC 320-463725/3	0.0025	20486.0			8194400.0	Y
3	IC 320-463725/4	0.005	45072.0			9014400.0	Y
4	IC 320-463725/5	0.01	95657.0			9565700.0	Y
5	IC 320-463725/6	0.025	254732.0			10189280.0	Y
6	IC 320-463725/7	0.05	447155.0			8943100.0	Y
7	IC 320-463725/9	0.1	1000698.0			10006980.0	Y
8	IC 320-463725/11	0.25	2638025.0			10552100.0	Y
9	IC 320-463725/13	0.5	4820530.0			9641060.0	Y
10	IC 320-463725/14	1.0	9044053.0			9044053.0	N



Calibration

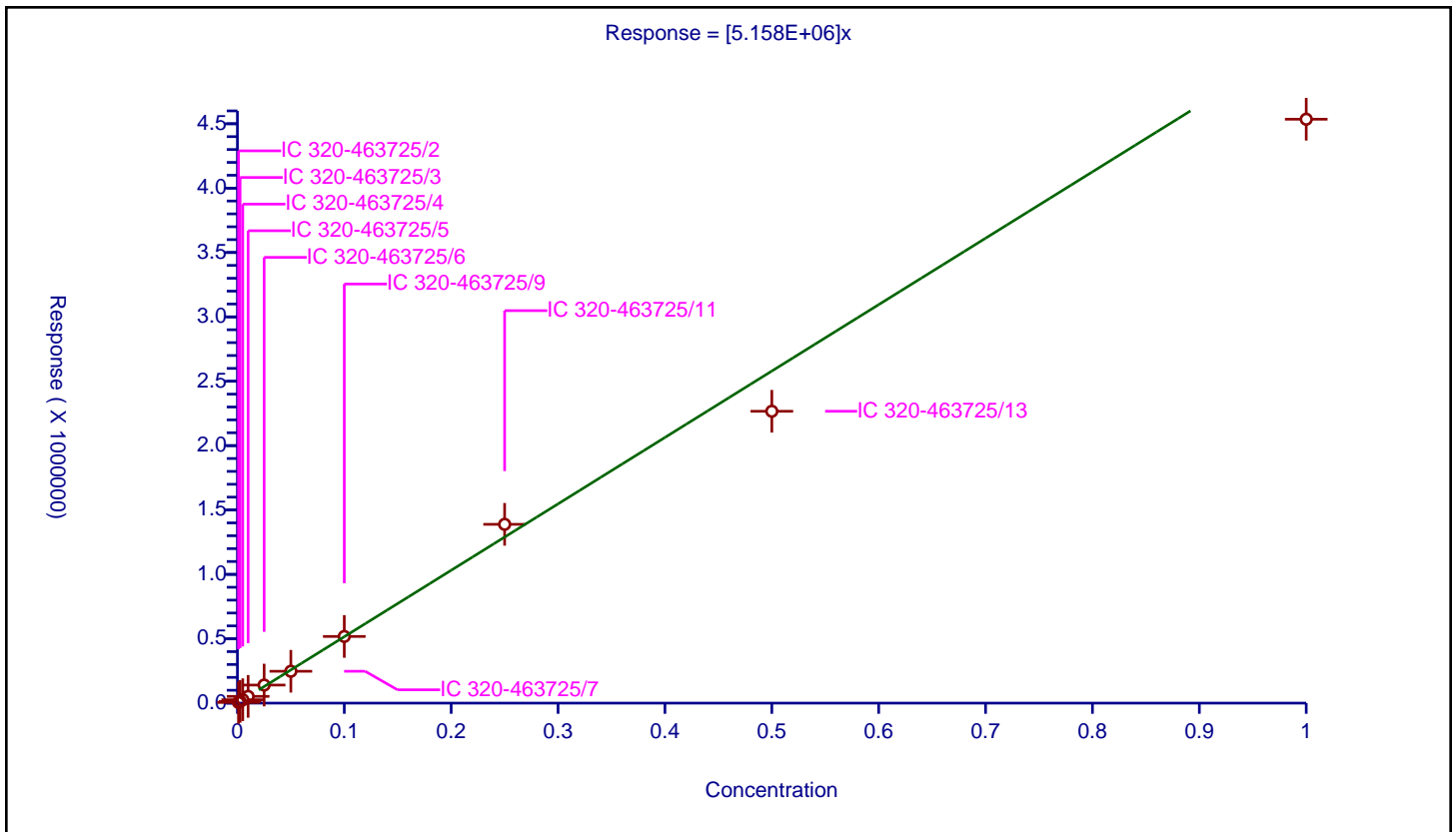
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.158E+06

Error Coefficients	
Standard Error:	235000
Relative Standard Error:	7.3
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	5293.0			5293000.0	Y
2	IC 320-463725/3	0.0025	13503.0			5401200.0	Y
3	IC 320-463725/4	0.005	26406.0			5281200.0	Y
4	IC 320-463725/5	0.01	52408.0			5240800.0	Y
5	IC 320-463725/6	0.025	140410.0			5616400.0	Y
6	IC 320-463725/7	0.05	247439.0			4948780.0	Y
7	IC 320-463725/9	0.1	517969.0			5179690.0	Y
8	IC 320-463725/11	0.25	1388717.0			5554868.0	Y
9	IC 320-463725/13	0.5	2266863.0			4533726.0	Y
10	IC 320-463725/14	1.0	4535169.0			4535169.0	Y



Calibration

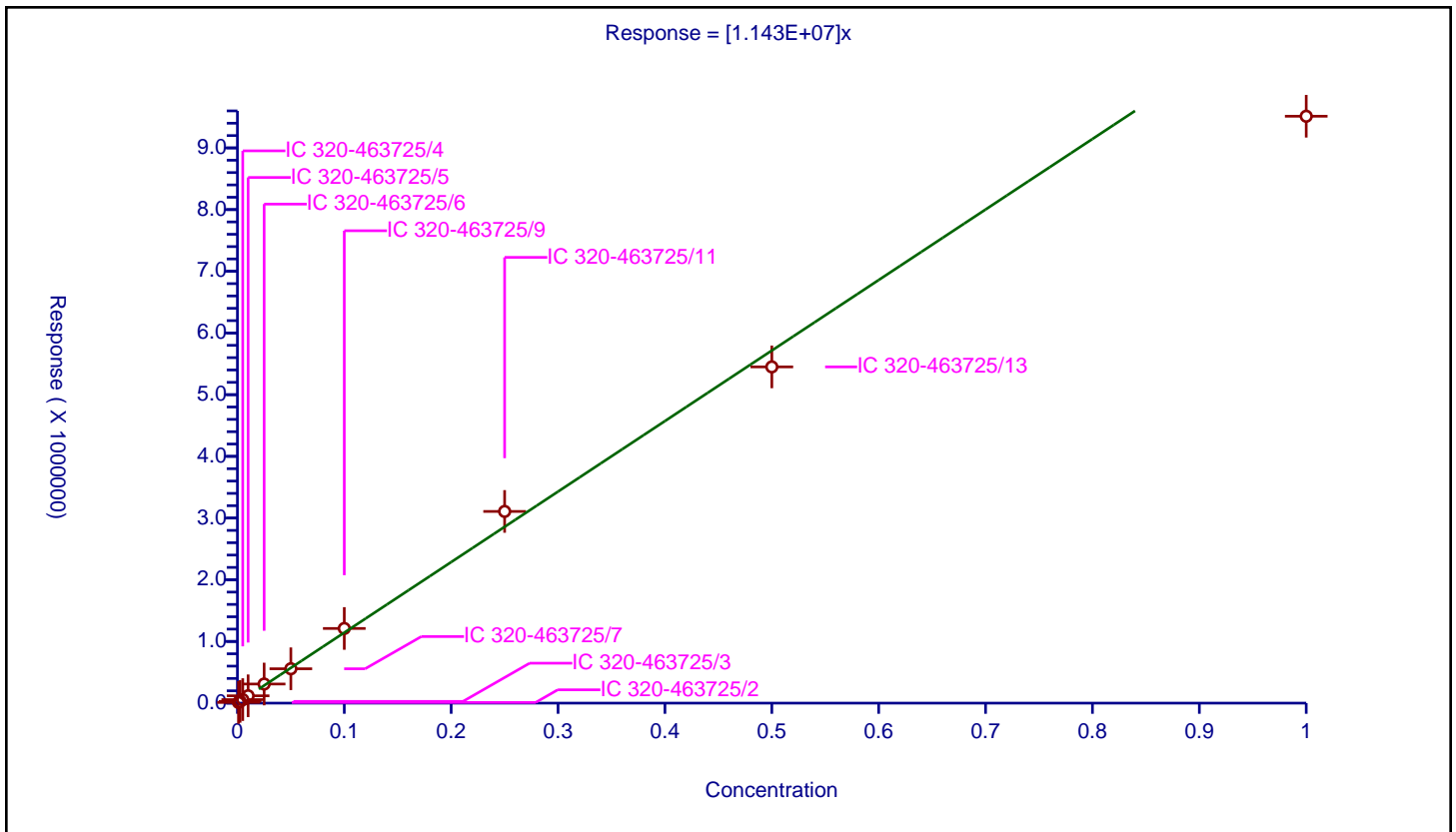
/ PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.143E+07

Error Coefficients	
Standard Error:	651000
Relative Standard Error:	7.6
Correlation Coefficient:	0.992
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	11172.0			11172000.0	Y
2	IC 320-463725/3	0.0025	28298.0			11319200.0	Y
3	IC 320-463725/4	0.005	57184.0			11436800.0	Y
4	IC 320-463725/5	0.01	118980.0			11898000.0	Y
5	IC 320-463725/6	0.025	309833.0			12393320.0	Y
6	IC 320-463725/7	0.05	557182.0			11143640.0	Y
7	IC 320-463725/9	0.1	1210157.0			12101570.0	Y
8	IC 320-463725/11	0.25	3107359.0			12429436.0	Y
9	IC 320-463725/13	0.5	5450120.0			10900240.0	Y
10	IC 320-463725/14	1.0	9513361.0			9513361.0	Y



**Calibration**

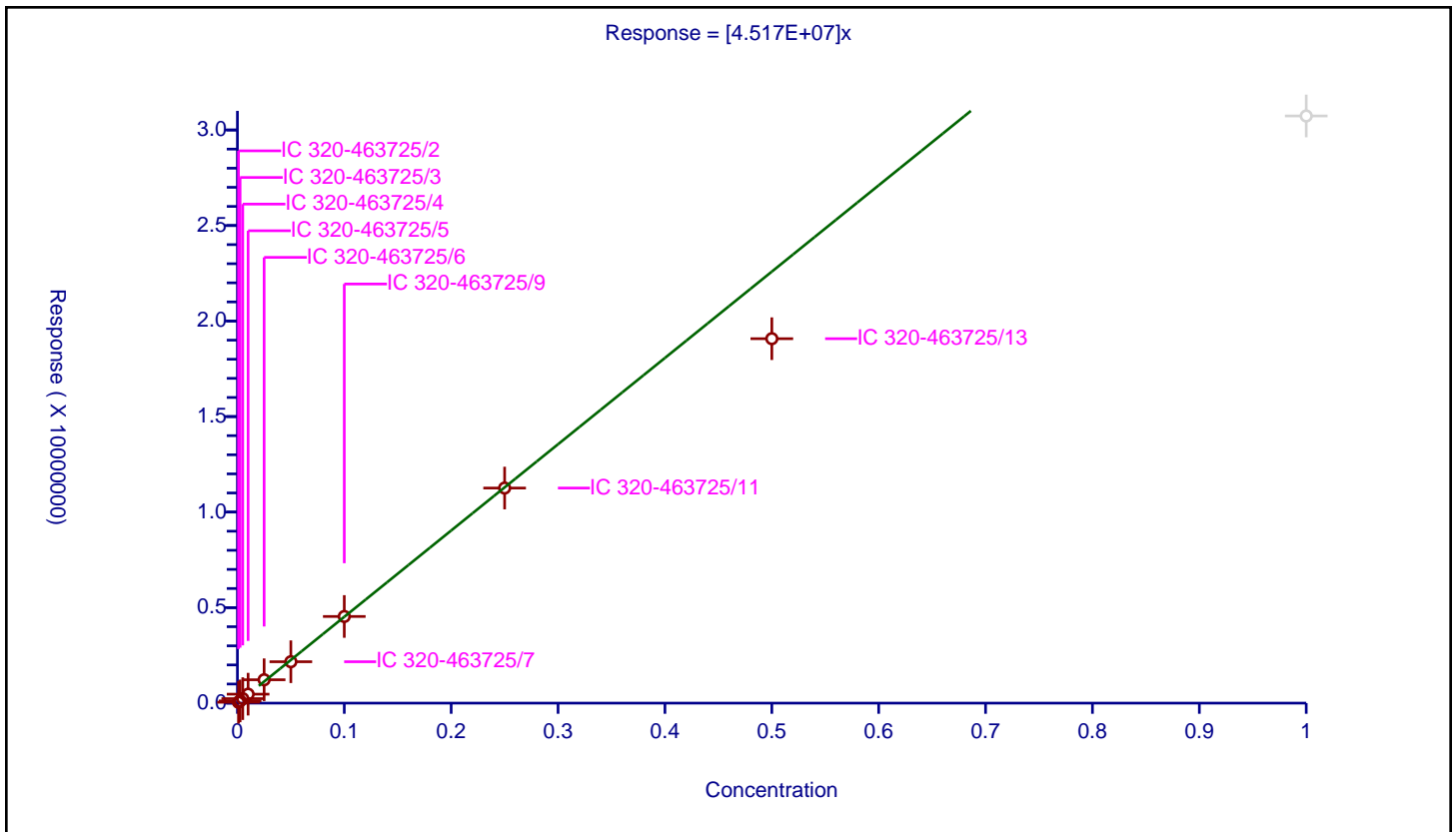
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	4.517E+07

Error Coefficients	
<b>Standard Error:</b>	1240000
<b>Relative Standard Error:</b>	6.7
<b>Correlation Coefficient:</b>	0.993
<b>Coefficient of Determination (Adjusted):</b>	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	45674.0			45674000.0	Y
2	IC 320-463725/3	0.0025	115541.0			46216400.0	Y
3	IC 320-463725/4	0.005	234854.0			46970800.0	Y
4	IC 320-463725/5	0.01	468536.0			46853600.0	Y
5	IC 320-463725/6	0.025	1223375.0			48935000.0	Y
6	IC 320-463725/7	0.05	2167729.0			43354580.0	Y
7	IC 320-463725/9	0.1	4535781.0			45357810.0	Y
8	IC 320-463725/11	0.25	11258330.0			45033320.0	Y
9	IC 320-463725/13	0.5	19076642.0			38153284.0	Y
10	IC 320-463725/14	1.0	30733220.0			30733220.0	N



Calibration

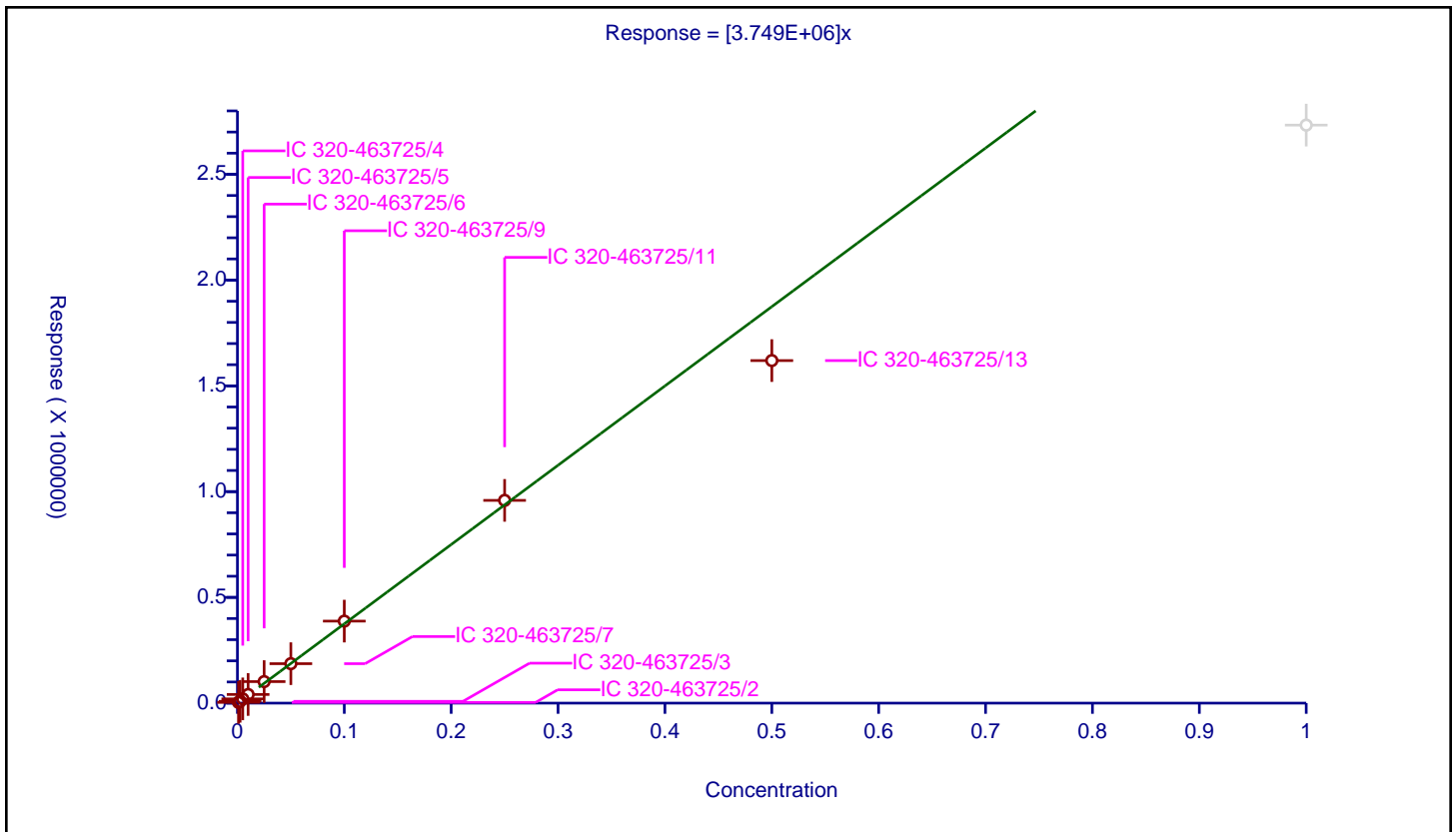
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.749E+06

Error Coefficients	
Standard Error:	90600
Relative Standard Error:	8.3
Correlation Coefficient:	0.993
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-463725/2	0.001	3473.0			3473000.0	Y
2	IC 320-463725/3	0.0025	8513.0			3405200.0	Y
3	IC 320-463725/4	0.005	20079.0			4015800.0	Y
4	IC 320-463725/5	0.01	40893.0			4089300.0	Y
5	IC 320-463725/6	0.025	101859.0			4074360.0	Y
6	IC 320-463725/7	0.05	186602.0			3732040.0	Y
7	IC 320-463725/9	0.1	387730.0			3877300.0	Y
8	IC 320-463725/11	0.25	958564.0			3834256.0	Y
9	IC 320-463725/13	0.5	1619543.0			3239086.0	Y
10	IC 320-463725/14	1.0	2732758.0			2732758.0	N



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-463725/16 Calibration Date: 02/20/2021 14:50  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.20\_A10\_TB3+\_ICAL\_016.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	10664500		107	100	6.5	30.0
R-EVE	Ave	4113840	4308280		105	100	4.7	50.0
R-PSDA	Ave	2716137	2749210		101	100	1.2	50.0
PMPA	Lin2		12904460		101	100	1.4	30.0
Hydrolyzed PSDA	Ave	7941832	8278370		104	100	4.2	50.0
NVHOS	Ave	7666241	7843110		102	100	2.3	30.0
PFO2HxA	Ave	9391118	9323650		99.3	100	-0.7	30.0
PEPA	Ave	5591875	6041300		108	100	8.0	30.0
PES	Ave	46961888	47412450		101	100	1.0	30.0
PFECA B	Ave	6491153	7013010		108	100	8.0	30.0
PFO3OA	Ave	5993289	5900050		98.4	100	-1.6	30.0
HFPO-DA	AveID	1.089	1.080		99.2	100	-0.8	40.0
R-PSDCA	Ave	62863071	61899810		98.5	100	-1.5	30.0
Hydro-EVE Acid	Ave	78962538	78801160		99.8	100	-0.2	30.0
Perfluoroheptanoic acid	L2ID		1.062		100	100	0.4	40.0
Hydro-PS Acid	Ave	25408908	25717300		101	100	1.2	30.0
PFECA G	Ave	9393669	11064400		118	100	17.8	30.0
PFO4DA	Ave	5158483	5251910		102	100	1.8	30.0
EVE Acid	Ave	45172088	46201390		102	100	2.3	30.0
PS Acid	Ave	11430757	11981840		105	100	4.8	30.0
PFO5DA	Ave	3748927	3474940		92.7	100	-7.3	50.0
13C3 HFPO-DA	Ave	5532191	5771720		261	250	4.3	50.0
13C4 PFHpA	Ave	25406808	26039760		256	250	2.5	50.0



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_016.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 20-Feb-2021 14:50:54 ALS Bottle#: 18 Worklist Smp#: 16  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (47)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 20-Feb-2021 15:40:16 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1681

First Level Reviewer: roycea Date: 20-Feb-2021 15:11:56

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.914	2.875	0.039		1066450	0.1065		107		M
2 R-EVE										M
405.00 > 217.00	6.561	6.560	0.001		430828	0.1047		11284		M
3 R-PSDA										
440.90 > 241.00	6.653	6.653	0.0		274921	0.1012		6890		
4 Hydrolyzed PSDA										
439.00 > 343.00	6.750	6.749	0.001		827837	0.1042		12653		
23 PMPA										
229.00 > 185.00	6.734	6.765	-0.031		1290446	0.1014		679		
5 NVHOS										M
297.00 > 135.00	7.300	7.319	-0.019		784311	0.1023		15291		M
6 PFO2HxA										
245.00 > 85.00	7.905	7.932	-0.027		932365	0.0993		11424		
22 PEPA										
278.90 > 234.90	8.553	8.584	-0.031		604130	0.1080		969		
7 PES										
314.90 > 135.00	8.885	8.908	-0.023		4741245	0.1010		171146		
8 PFECA B										
295.00 > 201.00	9.101	9.139	-0.038		701301	0.1080		19661		
9 PFO3OA										
310.90 > 85.00	9.360	9.396	-0.036		590005	0.0984		11635		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.450	9.486	-0.036		1442930	0.2608		104	58202	
11 HPFO-DA										
285.00 > 169.00	9.450	9.486	-0.036	1.000	623213	0.0992			24891	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.812	9.847	-0.035		6189981	0.0985			128087	
13 Hydro-EVE Acid										
427.00 > 282.90	9.869	9.904	-0.035		7880116	0.0998			82959	
D 14 13C4 PFHpA										
367.00 > 322.00	9.869	9.904	-0.035		6509940	0.2562		102	136795	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.869	9.904	-0.035	1.000	2765427	0.1004	Target=0.00		15851	
363.00 > 169.00	9.869	9.904	-0.035	1.000	1151922		2.40(0.00-0.00)		29159	
15 Hydro-PS Acid										
463.00 > 262.90	9.907	9.939	-0.032		2571730	0.1012			74658	
17 PFECA G										
378.90 > 184.90	9.993	10.034	-0.041		1106440	0.1178			45141	
18 PFO4DA										
376.90 > 85.00	10.122	10.161	-0.039		525191	0.1018			4653	
19 PS Acid										
443.00 > 146.90	10.204	10.242	-0.038		1198184	0.1048			37180	
20 EVE Acid										
407.00 > 262.90	10.204	10.260	-0.056		4620139	0.1023			81393	
21 TAF										
442.90 > 85.00	10.697	10.745	-0.048		347494	0.0927			755	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00047

Amount Added: 1.00

Units: mL

Data File: \\chromf\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_016.d

Injection Date: 20-Feb-2021 14:50:54

Instrument ID: A10

Lims ID: ICV

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 18

Worklist Smp#: 16

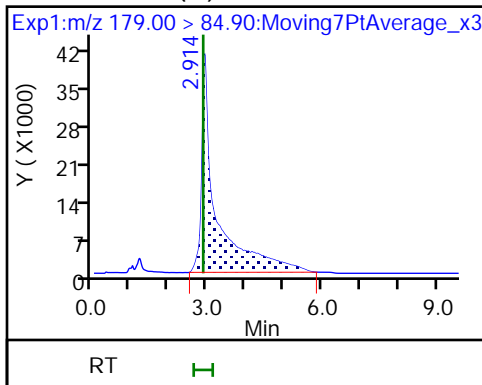
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

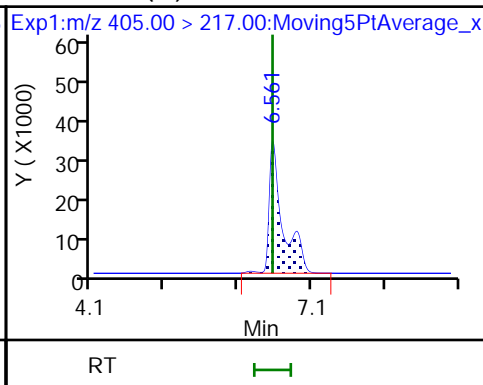
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

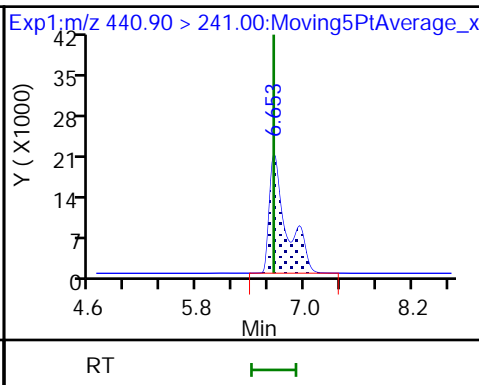
1 PFM0AA (M)



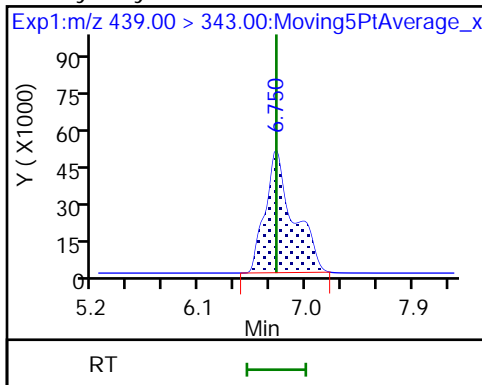
2 R-EVE (M)



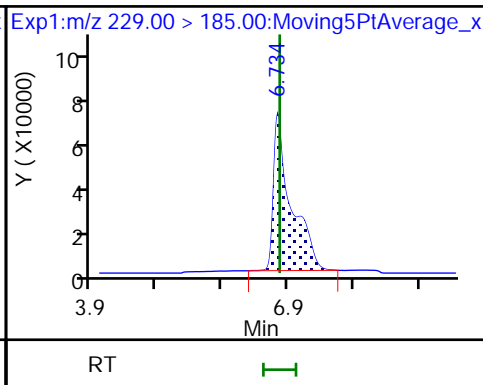
3 R-PSDA



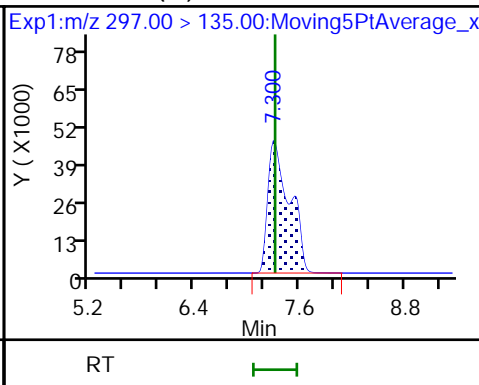
4 Hydrolyzed PSDA



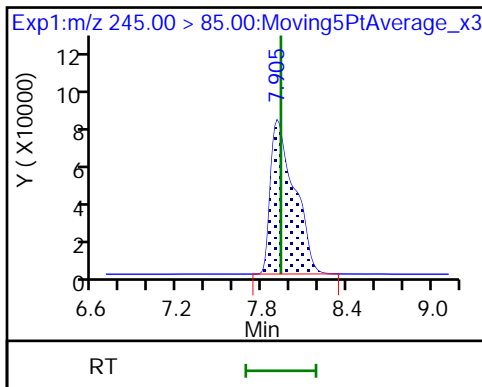
23 PMPA



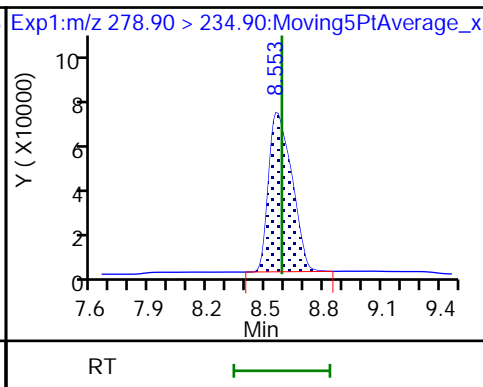
5 NVHOS (M)



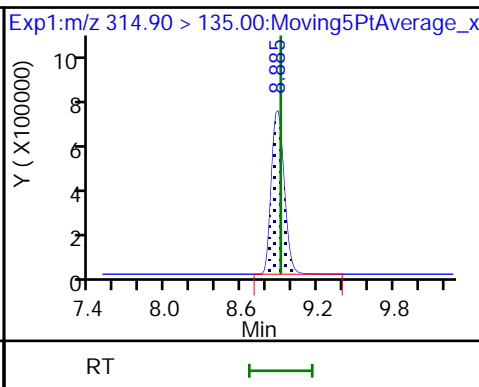
6 PFO2HxA



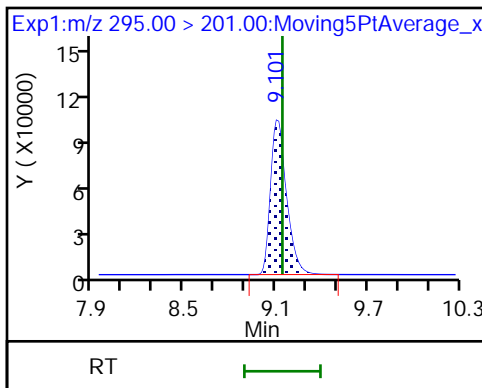
22 PEPA



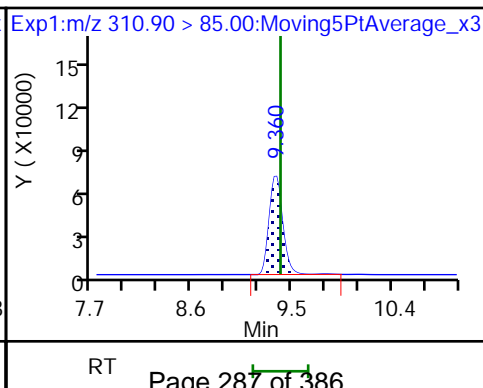
7 PES



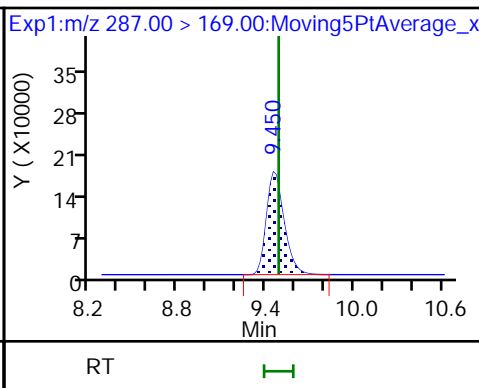
8 PFECAB

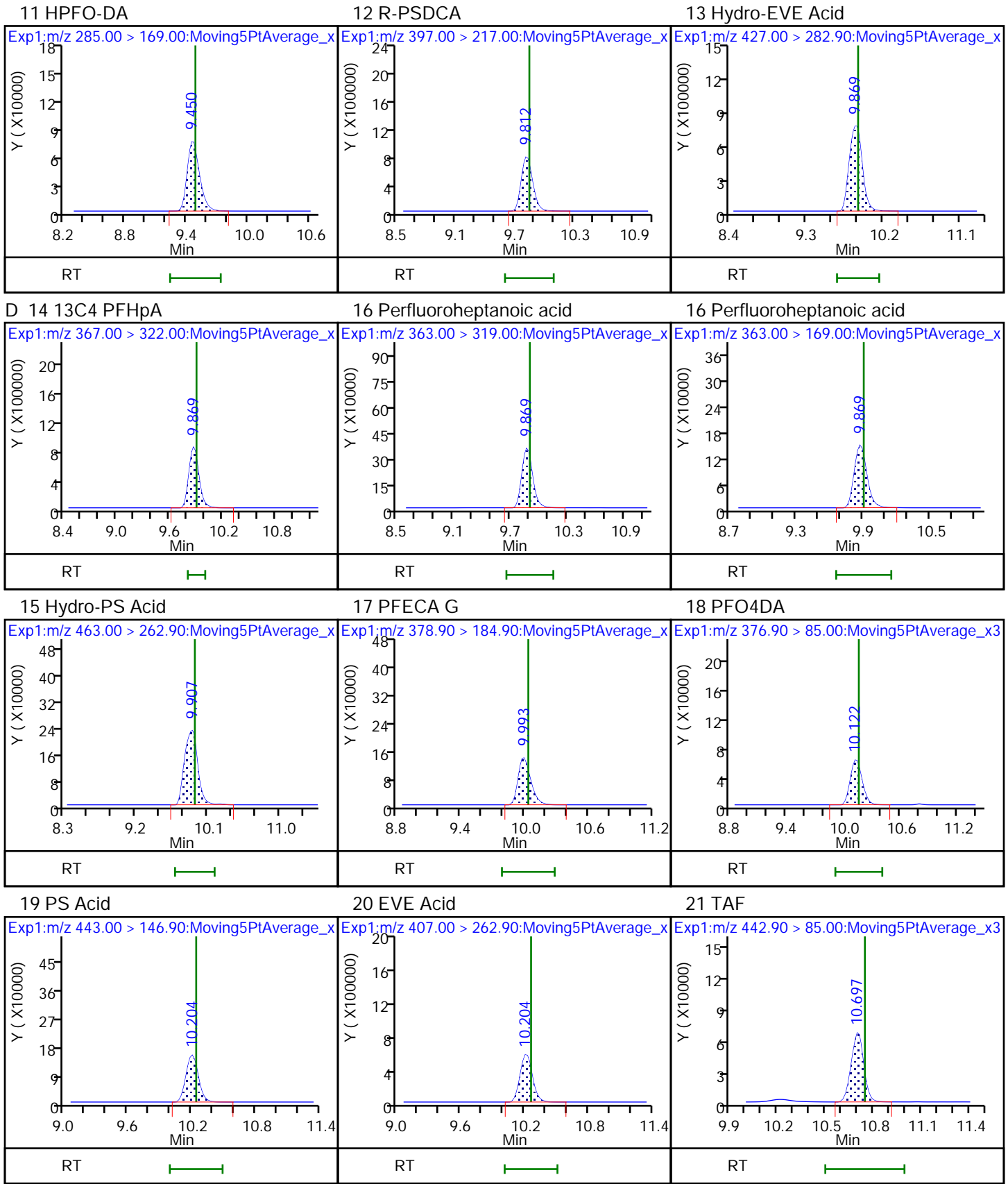


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

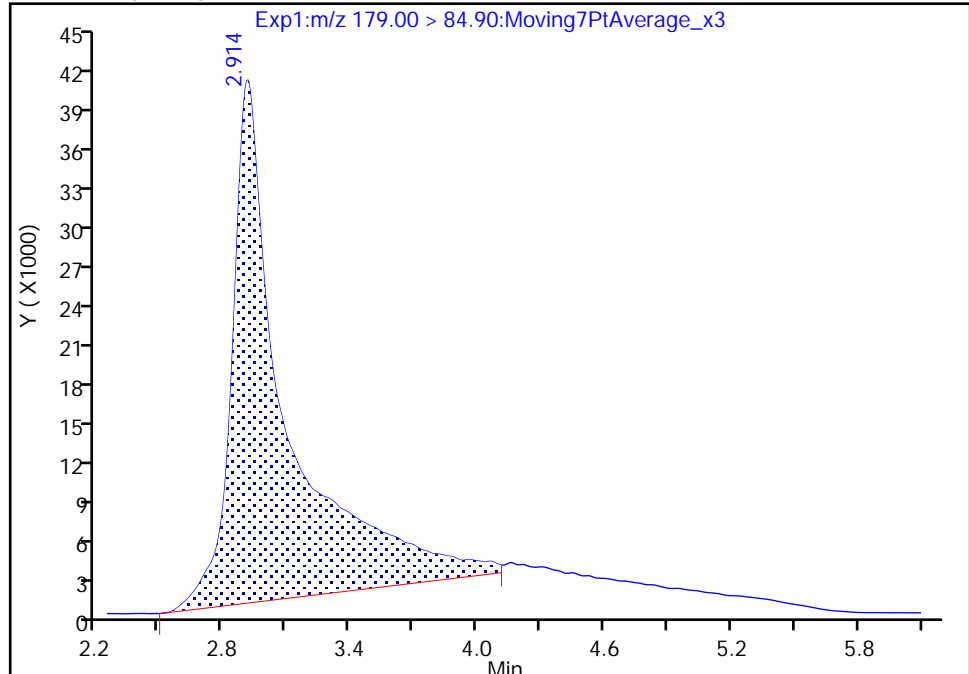
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_016.d  
Injection Date: 20-Feb-2021 14:50:54 Instrument ID: A10  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 18 Worklist Smp#: 16  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

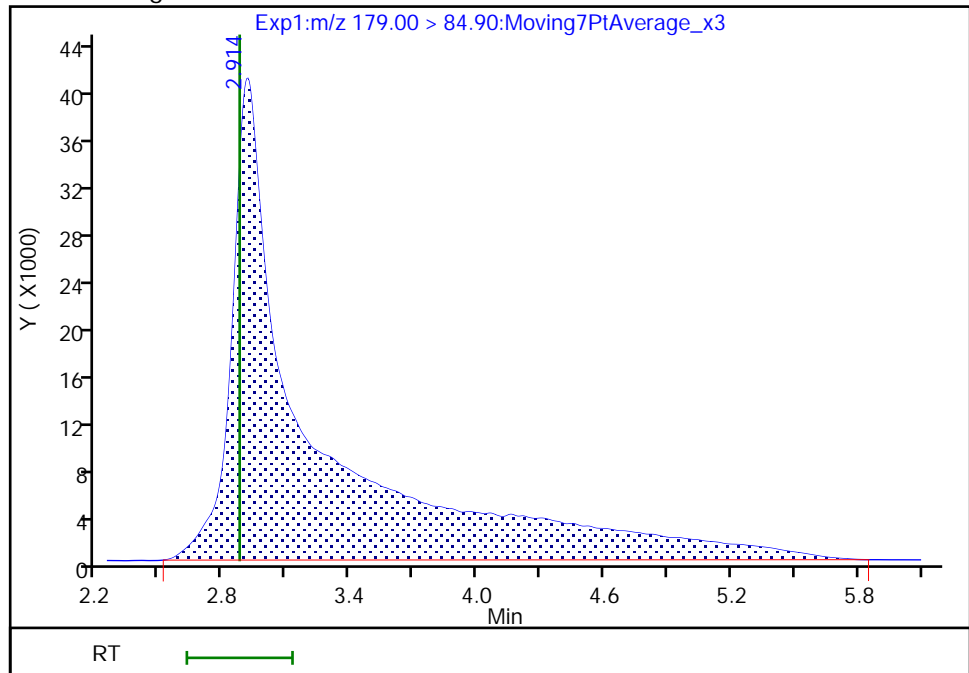
RT: 2.91  
Area: 731613  
Amount: 0.073072  
Amount Units: ng/ml

Processing Integration Results



RT: 2.91  
Area: 1066450  
Amount: 0.106515  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:11:25  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

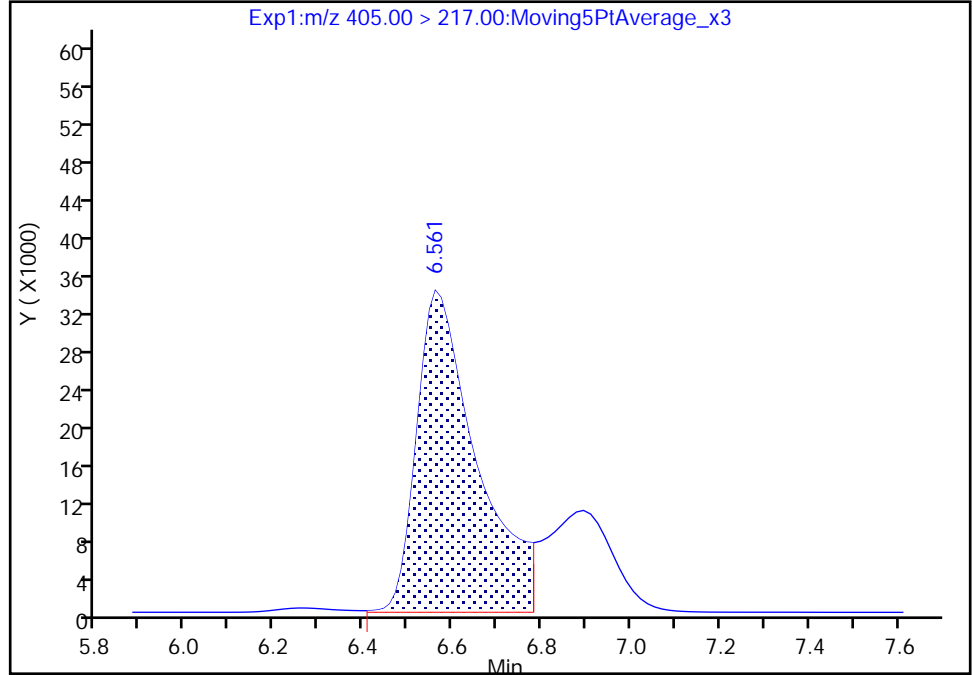
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_016.d  
Injection Date: 20-Feb-2021 14:50:54 Instrument ID: A10  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 18 Worklist Smp#: 16  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

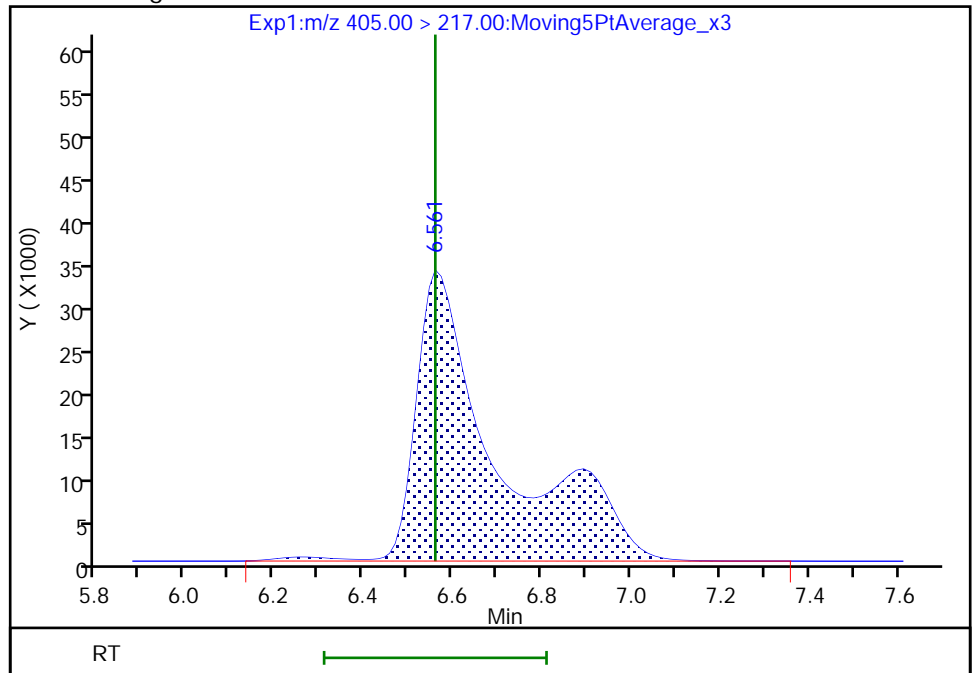
RT: 6.56  
Area: 315843  
Amount: 0.076776  
Amount Units: ng/ml

Processing Integration Results



RT: 6.56  
Area: 430828  
Amount: 0.104726  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:11:27  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

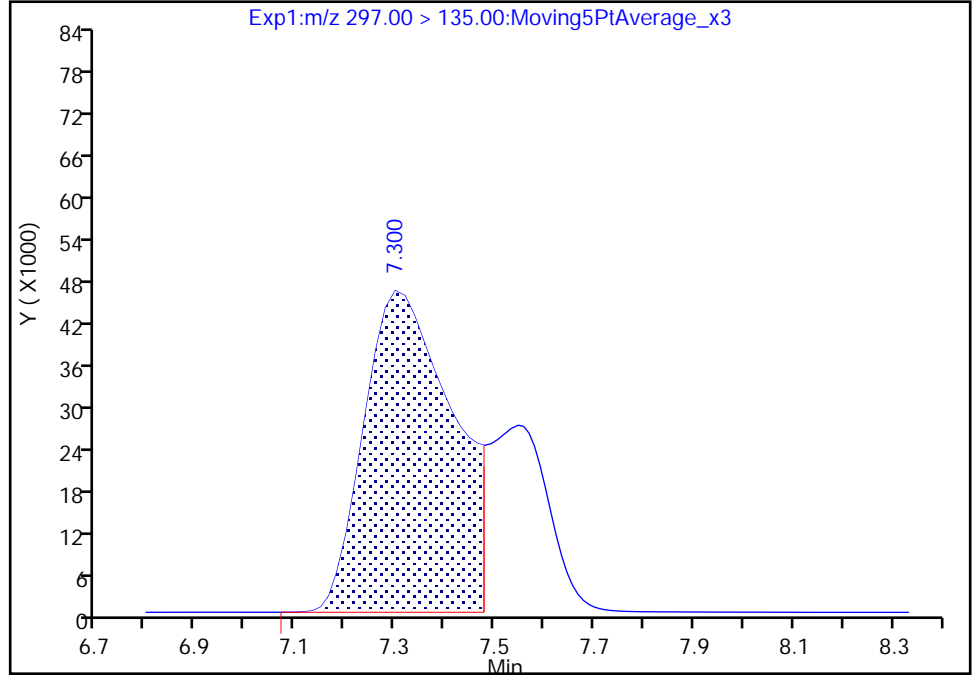
Data File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_016.d  
Injection Date: 20-Feb-2021 14:50:54 Instrument ID: A10  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 18 Worklist Smp#: 16  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

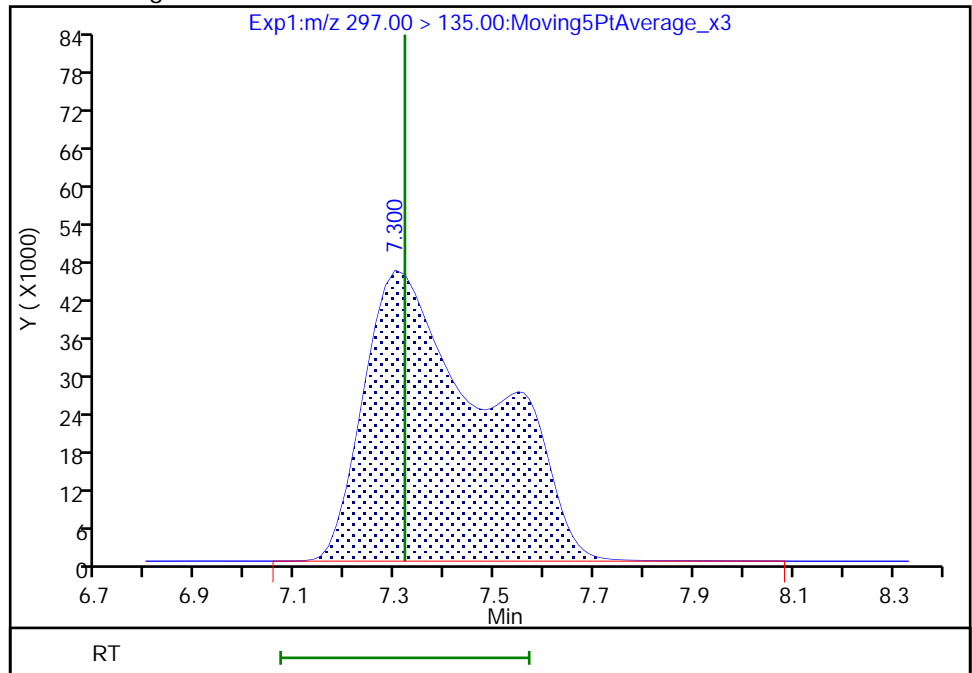
RT: 7.30  
Area: 563000  
Amount: 0.073439  
Amount Units: ng/ml

Processing Integration Results



RT: 7.30  
Area: 784311  
Amount: 0.102307  
Amount Units: ng/ml

Manual Integration Results



Reviewer: roycea, 20-Feb-2021 15:11:33  
Audit Action: Manually Integrated



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-464205/1 Calibration Date: 02/24/2021 03:16  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_014.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	8354530		83.4	100	-16.6	30.0
R-EVE	Ave	4113840	4084290		99.3	100	-0.7	50.0
R-PSDA	Ave	2716137	2740410		101	100	0.9	50.0
PMPA	Lin2		11749000		92.1	100	-7.9	30.0
Hydrolyzed PSDA	Ave	7941832	7927710		99.8	100	-0.2	50.0
NVHOS	Ave	7666241	7293730		95.1	100	-4.9	30.0
PFO2HxA	Ave	9391118	9364320		99.7	100	-0.3	30.0
PEPA	Ave	5591875	6202480		111	100	10.9	30.0
PES	Ave	46961888	46810930		99.7	100	-0.3	30.0
PFECA B	Ave	6491153	6765510		104	100	4.2	30.0
PFO3OA	Ave	5993289	5930480		99.0	100	-1.0	30.0
HFPO-DA	AveID	1.089	1.028		94.4	100	-5.6	40.0
R-PSDCA	Ave	62863071	59812580		95.1	100	-4.9	30.0
Hydro-EVE Acid	Ave	78962538	74564560		94.4	100	-5.6	30.0
Perfluoroheptanoic acid	L2ID		1.032		97.6	100	-2.4	40.0
Hydro-PS Acid	Ave	25408908	24095220		94.8	100	-5.2	30.0
PFECA G	Ave	9393669	11464330		122	100	22.0	30.0
PFO4DA	Ave	5158483	5155760		99.9	100	-0.0	30.0
EVE Acid	Ave	45172088	45493390		101	100	0.7	30.0
PS Acid	Ave	11430757	11358450		99.4	100	-0.6	30.0
PFO5DA	Ave	3748927	3119100		83.2	100	-16.8	50.0
13C3 HFPO-DA	Ave	5532191	5729616		259	250	3.6	50.0
13C4 PFHpA	Ave	25406808	26260116		258	250	3.4	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
 Lims ID: CCV L7 (430)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 24-Feb-2021 03:16:49 ALS Bottle#: 14 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (430)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:39:55 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: ruangyotsakuld Date: 25-Feb-2021 07:39:55

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.716	2.716	0.0		835453	0.0834		83.4	133	M
2 R-EVE										M
405.00 > 217.00	6.458	6.458	0.0		408429	0.0993		99.3	9594	M
3 R-PSDA										M
440.90 > 241.00	6.560	6.560	0.0		274041	0.1009		101	6691	M
23 PMPA										M
229.00 > 185.00	6.653	6.653	0.0		1174900	0.0921		92.1	460	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.669	6.669	0.0		792771	0.0998		99.8	13747	M
5 NVHOS										M
297.00 > 135.00	7.260	7.260	0.0		729373	0.0951		95.1	12865	M
6 PFO2HxA										
245.00 > 85.00	7.863	7.863	0.0		936432	0.0997		99.7	9601	
22 PEPA										
278.90 > 234.90	8.521	8.521	0.0		620248	0.1109		111	861	
7 PES										
314.90 > 135.00	8.860	8.860	0.0		4681093	0.0997		99.7	160052	
8 PFECA B										
295.00 > 201.00	9.087	9.087	0.0		676551	0.1042		104	23804	
9 PFO3OA										
310.90 > 85.00	9.321	9.321	0.0		593048	0.0990		99.0	11676	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1432404	0.2589		104	58380	
11 HPFO-DA										
285.00 > 169.00	9.432	9.432	0.0	1.000	588787	0.0944		94.4	23895	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.792	9.792	0.0		5981258	0.0951		95.1	148404	
13 Hydro-EVE Acid										
427.00 > 282.90	9.849	9.849	0.0		7456456	0.0944		94.4	101695	
D 14 13C4 PFHpA										
367.00 > 322.00	9.849	9.849	0.0		6565029	0.2584		103	137091	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.849	9.849	0.0	1.000	2709917	0.0976	Target=0.00	97.6	18899	
363.00 > 169.00	9.849	9.849	0.0	1.000	1145791		2.37(0.00-0.00)		28785	
15 Hydro-PS Acid										
463.00 > 262.90	9.868	9.868	0.0		2409522	0.0948		94.8	69472	
17 PFECA G										
378.90 > 184.90	9.958	9.958	0.0		1146433	0.1220		122	47681	
18 PFO4DA										
376.90 > 85.00	10.100	10.100	0.0		515576	0.0999		99.9	4205	
19 PS Acid										
443.00 > 146.90	10.184	10.184	0.0		1135845	0.0994		99.4	34148	
20 EVE Acid										
407.00 > 262.90	10.184	10.184	0.0		4549339	0.1007		101	91551	
21 TAF										
442.90 > 85.00	10.668	10.668	0.0		311910	0.0832		83.2	555	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00430

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d

Injection Date: 24-Feb-2021 03:16:49

Instrument ID: A10

Lims ID: CCV L7 (430)

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 14

Worklist Smp#: 1

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

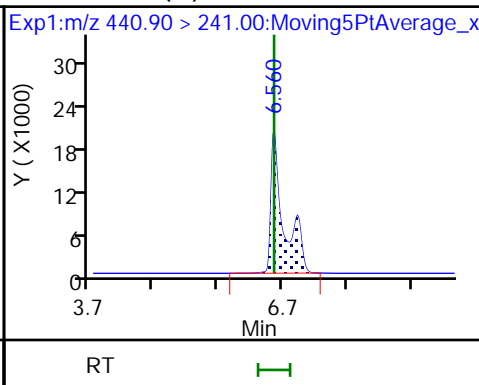
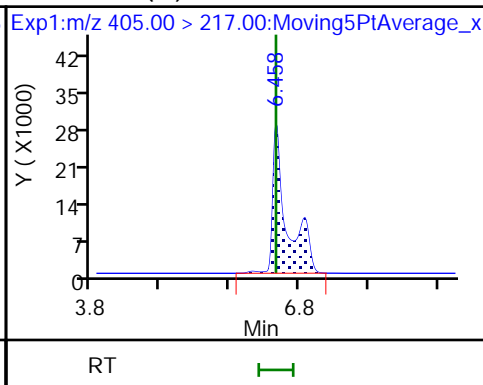
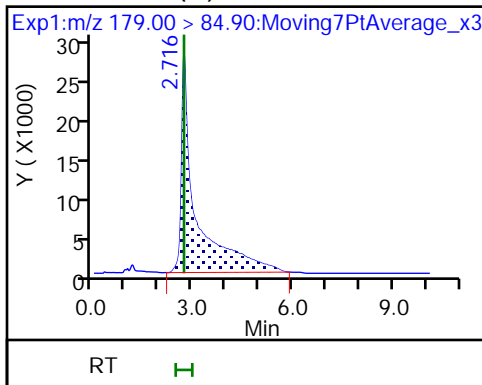
Method: A10\_PFAS\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

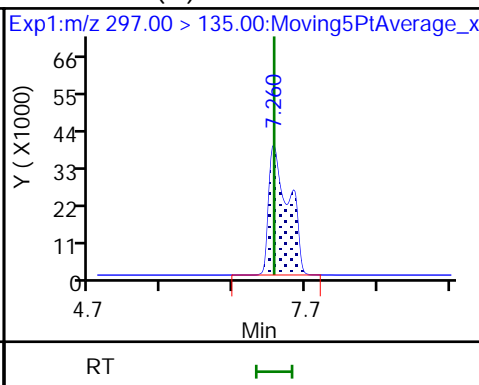
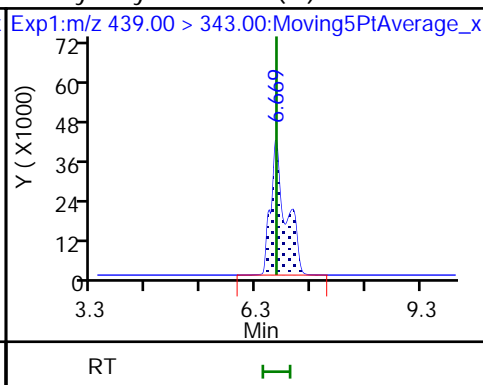
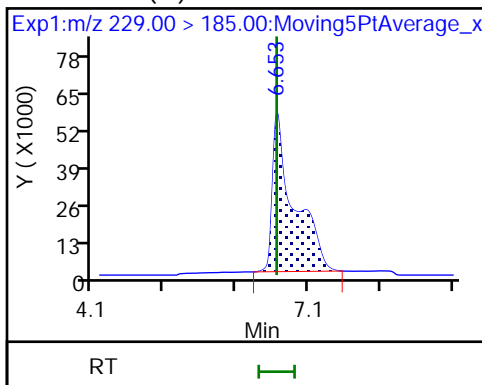
3 R-PSDA (M)



23 PMPA (M)

4 Hydrolyzed PSDA (M)

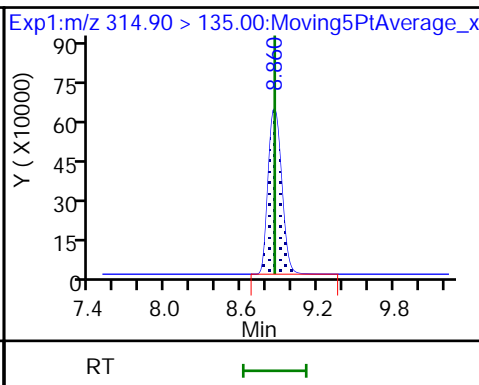
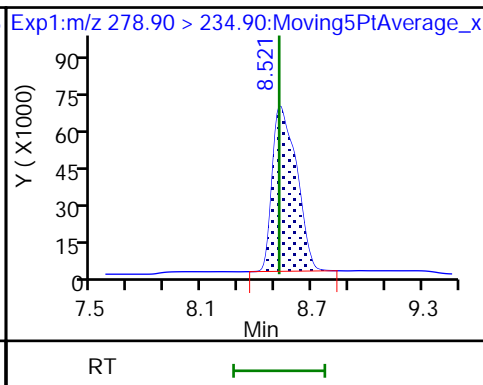
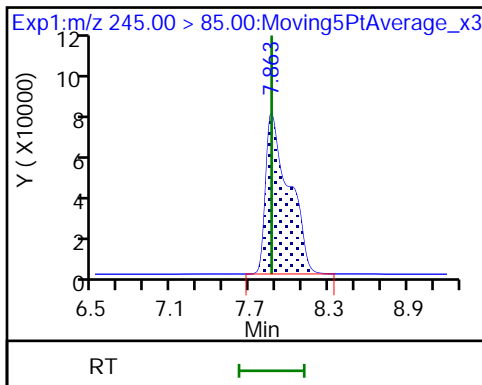
5 NVHOS (M)



6 PFO2HxA

22 PEPA

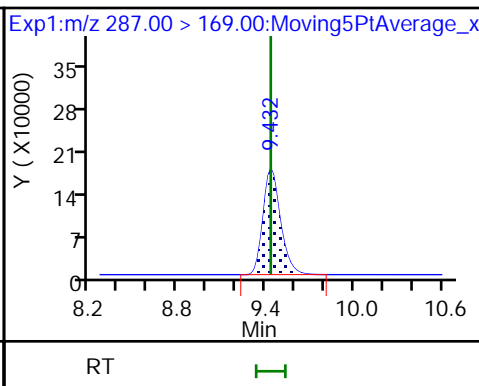
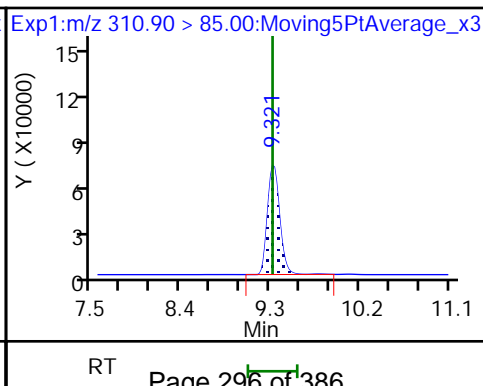
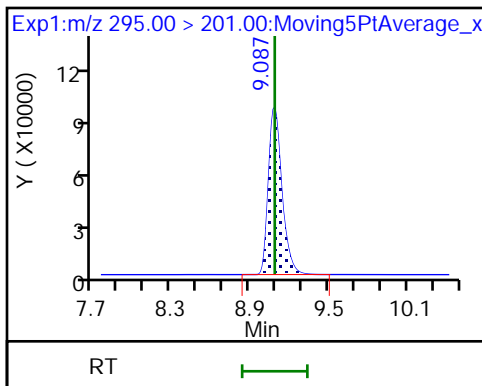
7 PES

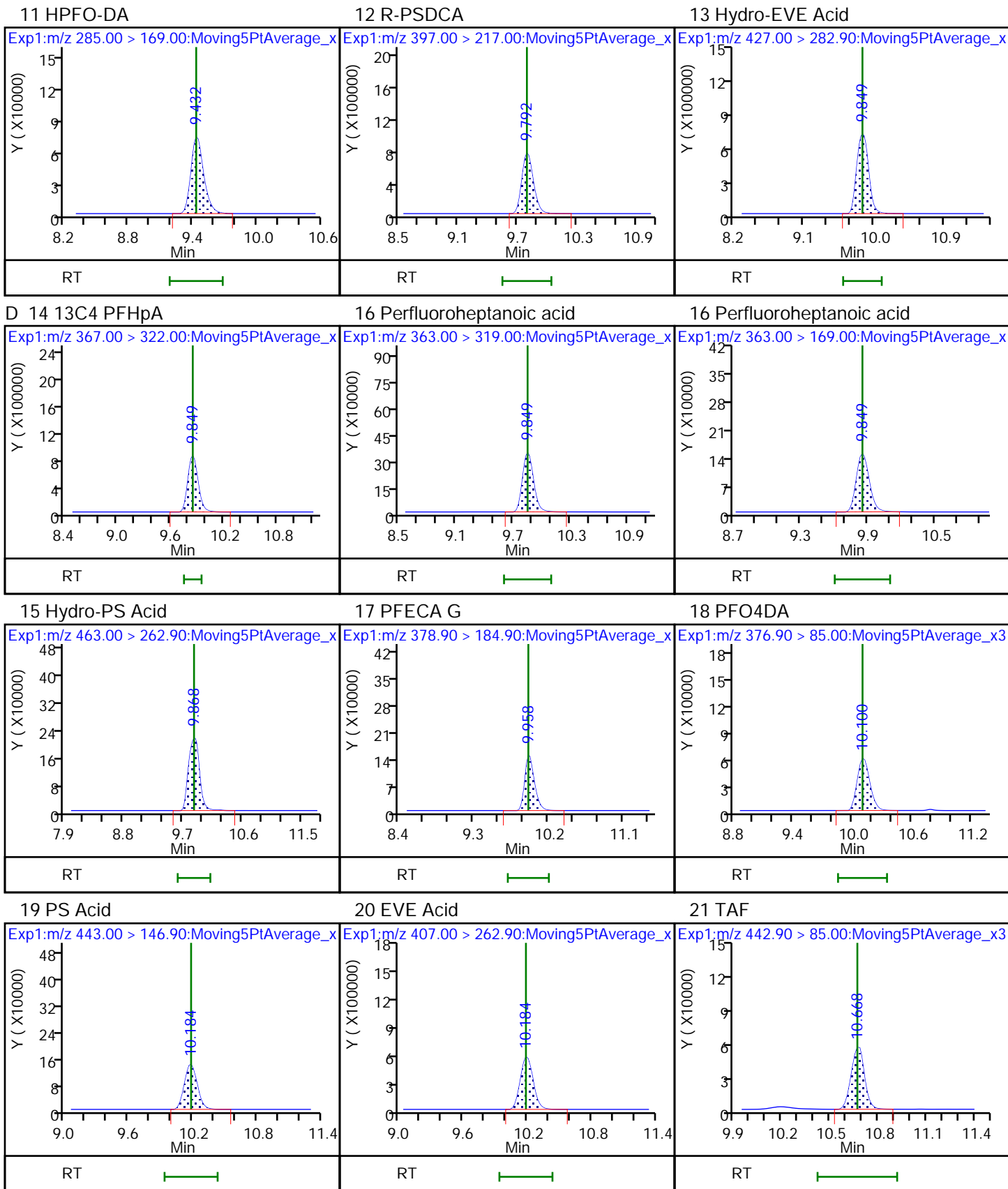


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

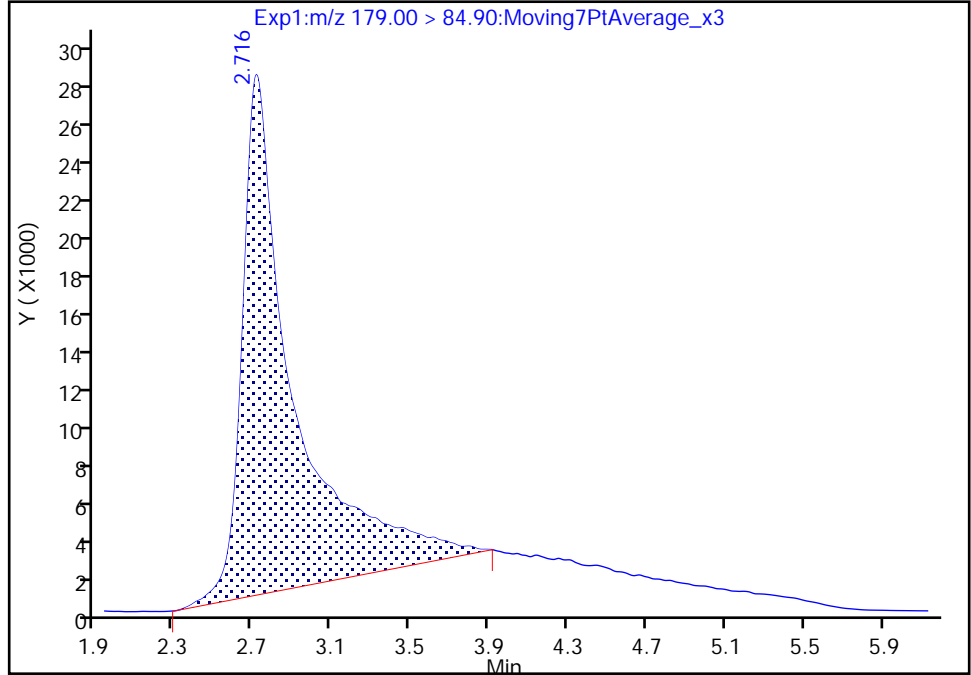
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

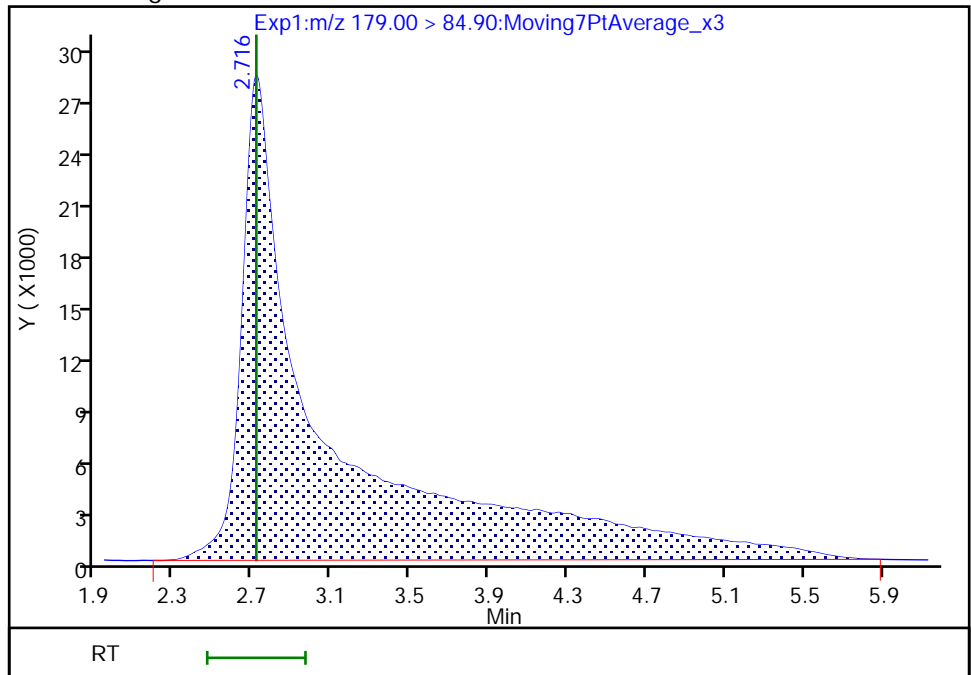
RT: 2.72  
Area: 501113  
Amount: 0.050050  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 835453  
Amount: 0.083444  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

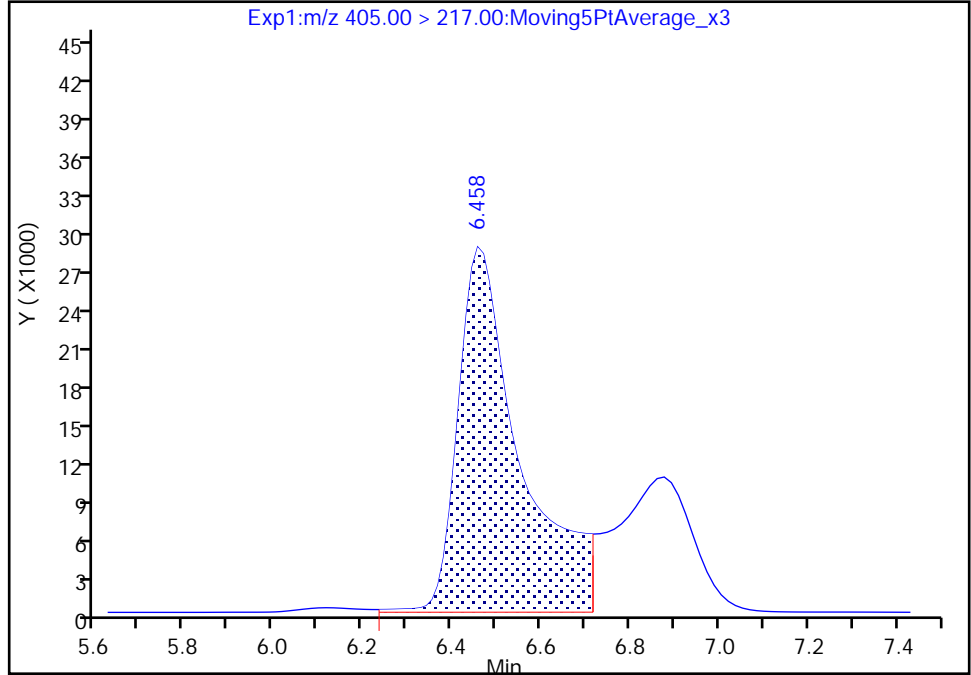
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Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

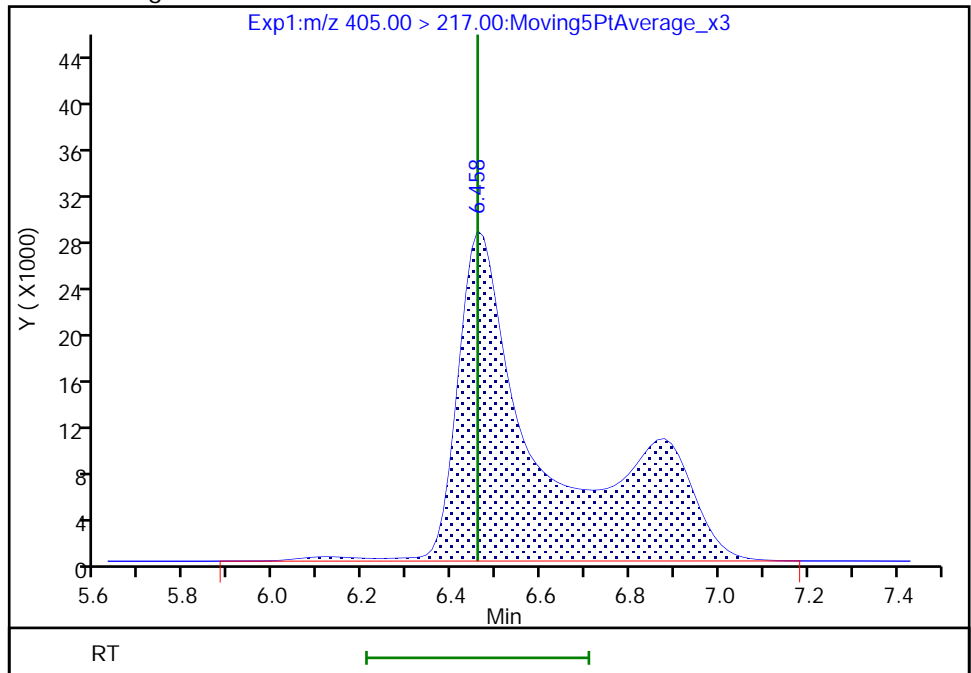
RT: 6.46  
Area: 278618  
Amount: 0.067727  
Amount Units: ng/ml

Processing Integration Results



RT: 6.46  
Area: 408429  
Amount: 0.099282  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:17  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

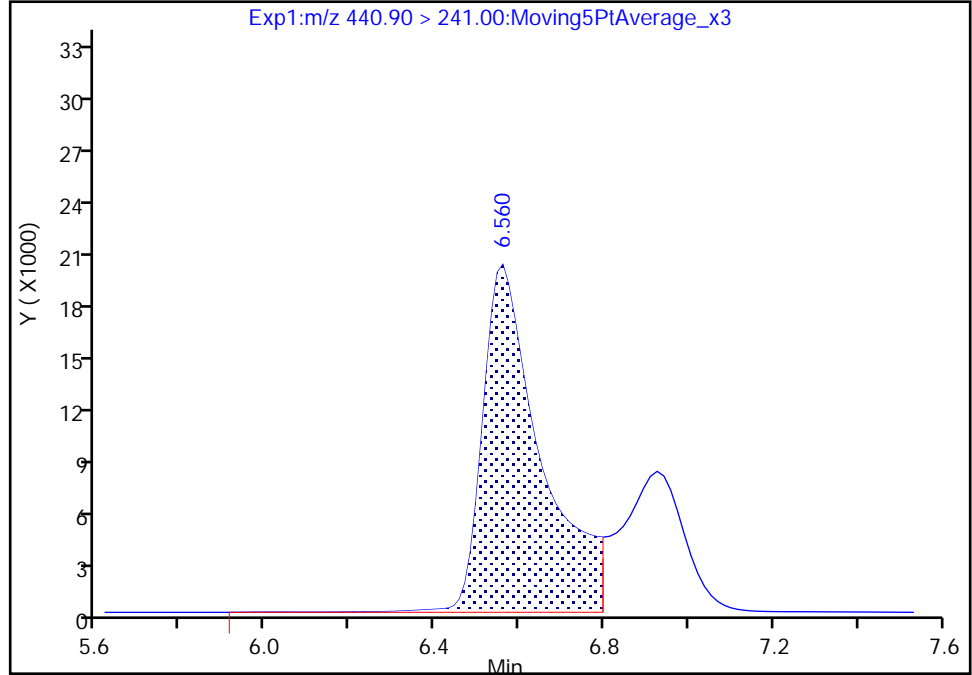
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

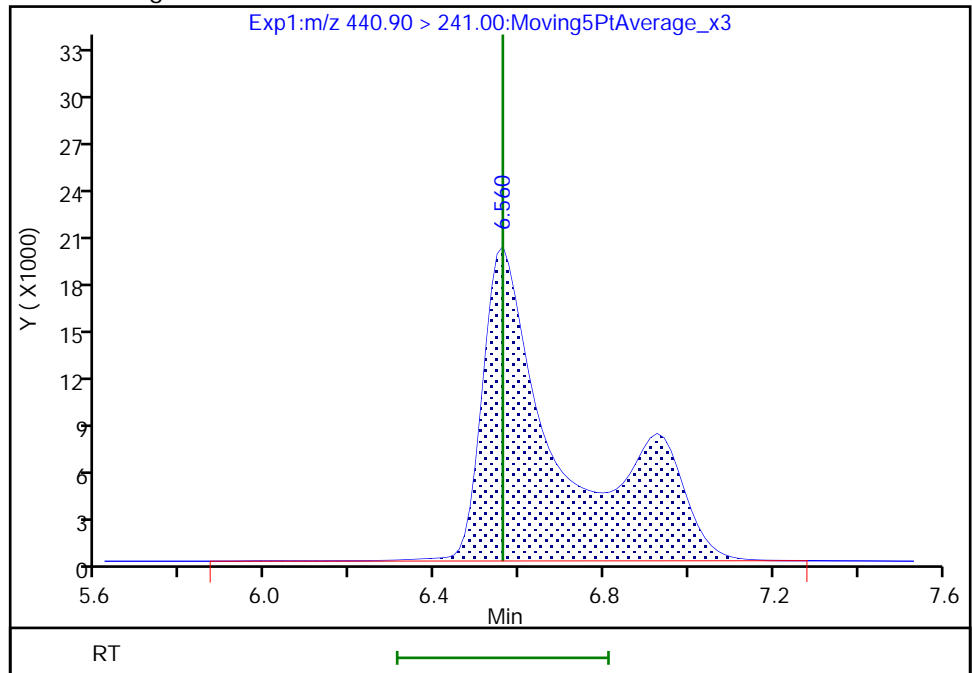
RT: 6.56  
Area: 192144  
Amount: 0.070742  
Amount Units: ng/ml

Processing Integration Results



RT: 6.56  
Area: 274041  
Amount: 0.100894  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

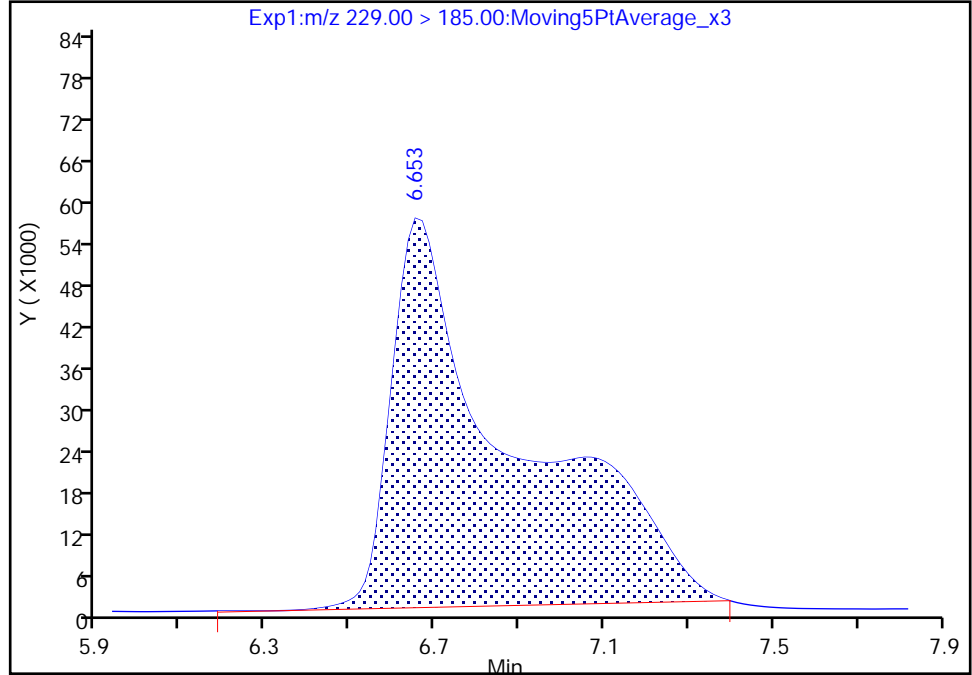
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

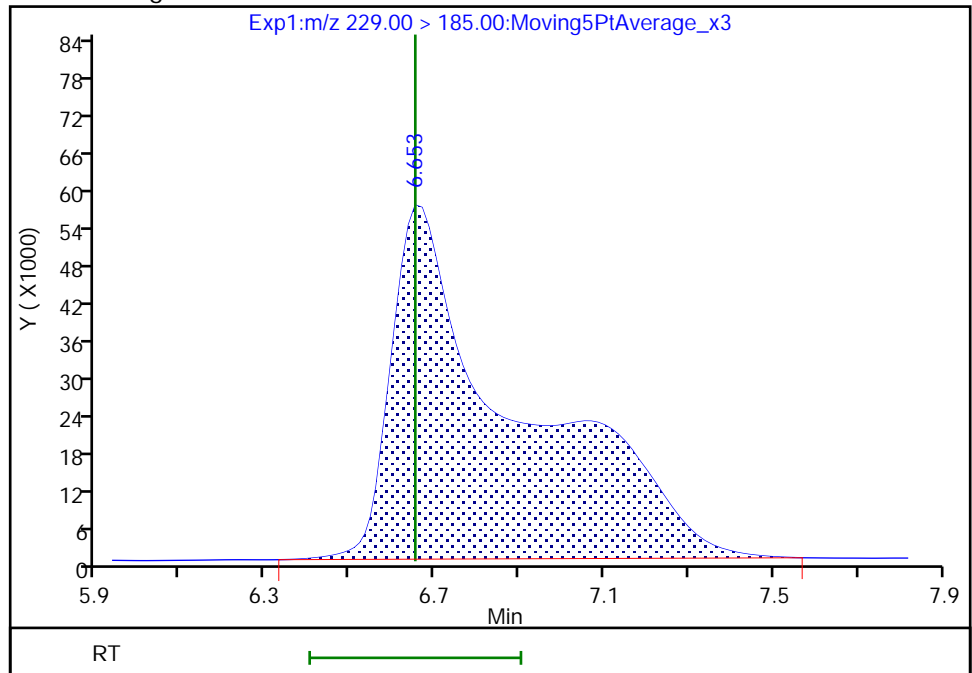
RT: 6.65  
Area: 1134962  
Amount: 0.088937  
Amount Units: ng/ml

Processing Integration Results



RT: 6.65  
Area: 1174900  
Amount: 0.092145  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:24  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

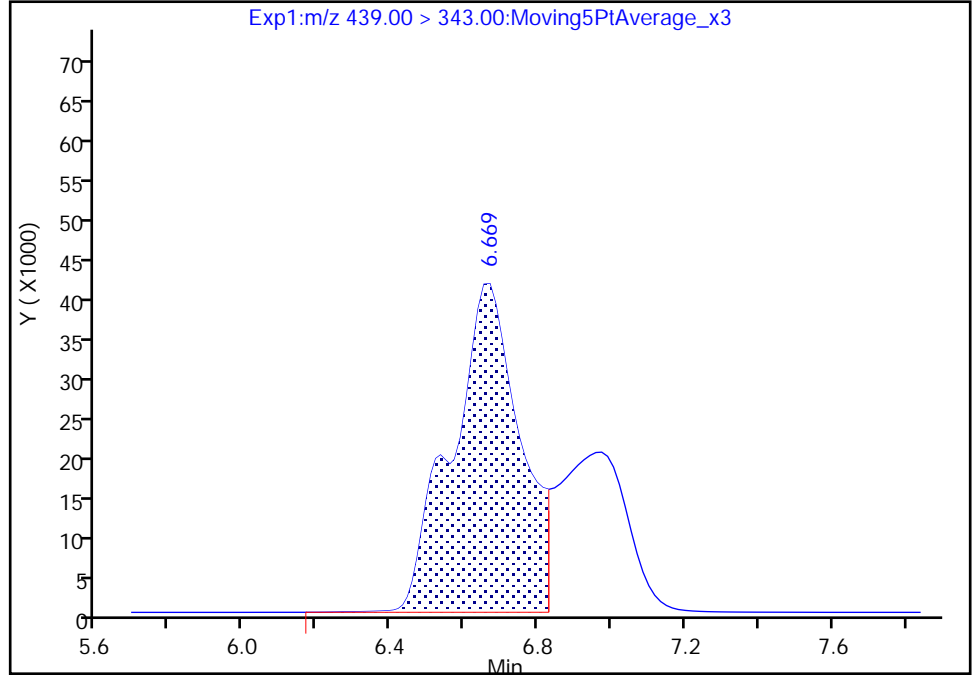
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

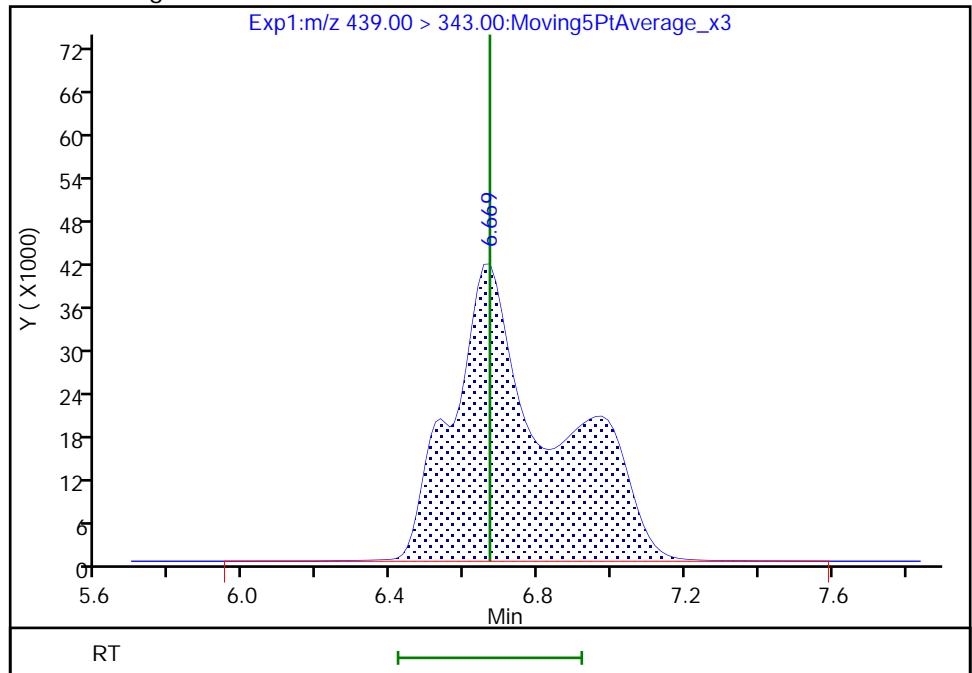
RT: 6.67  
Area: 531468  
Amount: 0.066920  
Amount Units: ng/ml

Processing Integration Results



RT: 6.67  
Area: 792771  
Amount: 0.099822  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:27  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

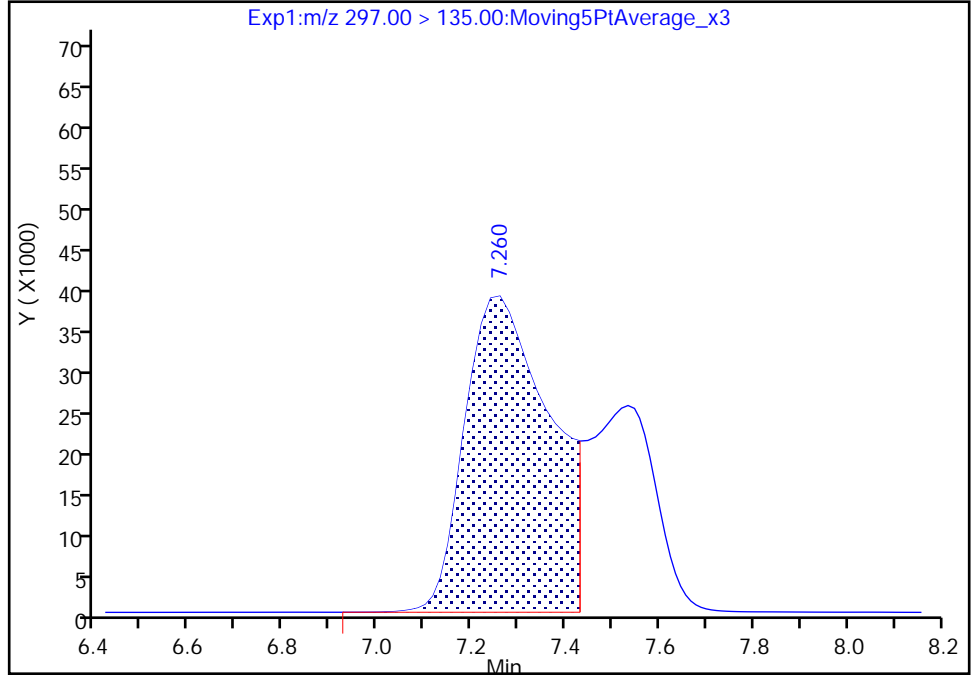
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_014.d  
Injection Date: 24-Feb-2021 03:16:49 Instrument ID: A10  
Lims ID: CCV L7 (430)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 14 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

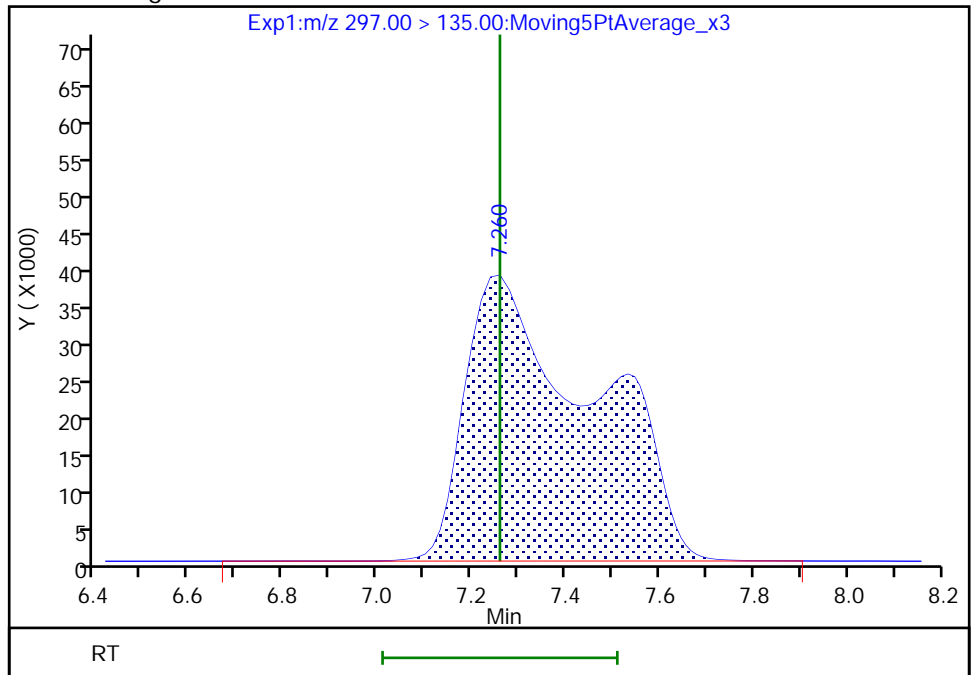
RT: 7.26  
Area: 480898  
Amount: 0.062729  
Amount Units: ng/ml

Processing Integration Results



RT: 7.26  
Area: 729373  
Amount: 0.095141  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:20:30  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-464205/14 Calibration Date: 02/24/2021 07:03  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_027.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	8408480		84.0	100	-16.0	30.0
R-EVE	Ave	4113840	4219260		103	100	2.6	50.0
R-PSDA	Ave	2716137	2804170		103	100	3.2	50.0
PMPA	Lin2		12218880		95.9	100	-4.1	30.0
Hydrolyzed PSDA	Ave	7941832	8293010		104	100	4.4	50.0
NVHOS	Ave	7666241	7472810		97.5	100	-2.5	30.0
PFO2HxA	Ave	9391118	9453870		101	100	0.7	30.0
PEPA	Ave	5591875	6401410		114	100	14.5	30.0
PES	Ave	46961888	46897940		99.9	100	-0.1	30.0
PFECA B	Ave	6491153	6451730		99.4	100	-0.6	30.0
PFO3OA	Ave	5993289	5585760		93.2	100	-6.8	30.0
HFPO-DA	AveID	1.089	1.012		92.9	100	-7.1	40.0
R-PSDCA	Ave	62863071	58159130		92.5	100	-7.5	30.0
Hydro-EVE Acid	Ave	78962538	74014270		93.7	100	-6.3	30.0
Perfluoroheptanoic acid	L2ID		1.045		98.8	100	-1.2	40.0
Hydro-PS Acid	Ave	25408908	23998010		94.4	100	-5.6	30.0
PFECA G	Ave	9393669	11172050		119	100	18.9	30.0
PFO4DA	Ave	5158483	4683140		90.8	100	-9.2	30.0
PS Acid	Ave	11430757	11931380		104	100	4.4	30.0
EVE Acid	Ave	45172088	46262210		102	100	2.4	30.0
PFO5DA	Ave	3748927	3313440		88.4	100	-11.6	50.0
13C3 HFPO-DA	Ave	5532191	5737272		259	250	3.7	50.0
13C4 PFHpA	Ave	25406808	25414888		250	250	0.0	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_027.d  
 Lims ID: CCV L7 (431)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 24-Feb-2021 07:03:49 ALS Bottle#: 27 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (431)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:45:31 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: vangmy Date: 24-Feb-2021 09:22:08  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.056	2.716	0.340		840848	0.0840		84.0	49.7	M
2 R-EVE										M
405.00 > 217.00	6.638	6.458	0.180		421926	0.1026		103	12518	M
3 R-PSDA										
440.90 > 241.00	6.718	6.560	0.158		280417	0.1032		103	8486	
23 PMPA										M
229.00 > 185.00	6.766	6.653	0.113		1221888	0.0959		95.9	578	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.798	6.669	0.129		829301	0.1044		104	19613	
5 NVHOS										
297.00 > 135.00	7.319	7.260	0.059		747281	0.0975		97.5	16271	
6 PFO2HxA										
245.00 > 85.00	7.910	7.863	0.047		945387	0.1007		101	9066	
22 PEPA										
278.90 > 234.90	8.544	8.521	0.023		640141	0.1145		114	1050	
7 PES										
314.90 > 135.00	8.854	8.860	-0.006		4689794	0.0999		99.9	178165	
8 PFECA B										
295.00 > 201.00	9.081	9.087	-0.006		645173	0.0994		99.4	19662	
9 PFO3OA										
310.90 > 85.00	9.327	9.321	0.006		558576	0.0932		93.2	11195	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.438	9.432	0.006		1434318	0.2593		104	58679	
11 HPFO-DA										
285.00 > 169.00	9.438	9.432	0.006	1.000	580433	0.0929		92.9	23769	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.799	9.792	0.007		5815913	0.0925		92.5	144505	
13 Hydro-EVE Acid										
427.00 > 282.90	9.856	9.849	0.007		7401427	0.0937		93.7	88434	
D 14 13C4 PFHpA										
367.00 > 322.00	9.856	9.849	0.007		6353722	0.2501		100	130581	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.856	9.849	0.007	1.000	2656965	0.0988	Target=0.00	98.8	20704	
363.00 > 169.00	9.856	9.849	0.007	1.000	1139349		2.33(0.00-0.00)		28379	
15 Hydro-PS Acid										
463.00 > 262.90	9.875	9.868	0.007		2399801	0.0944		94.4	52231	
17 PFECA G										
378.90 > 184.90	9.965	9.958	0.007		1117205	0.1189		119	47291	
18 PFO4DA										
376.90 > 85.00	10.107	10.100	0.007		468314	0.0908		90.8	4126	
19 PS Acid										
443.00 > 146.90	10.171	10.184	-0.013		1193138	0.1044		104	35578	
20 EVE Acid										
407.00 > 262.90	10.191	10.184	0.007		4626221	0.1024		102	92819	
21 TAF										
442.90 > 85.00	10.674	10.668	0.006		331344	0.0884		88.4	607	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

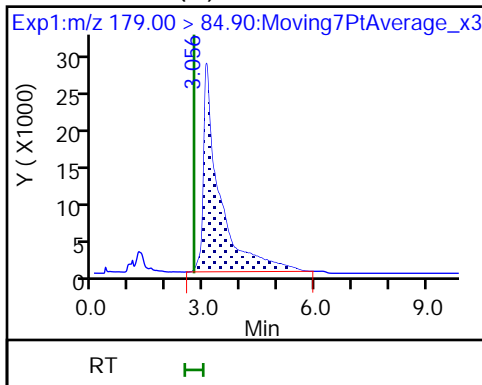
**Reagents:**

LCTB3\_LLSTD7\_00431

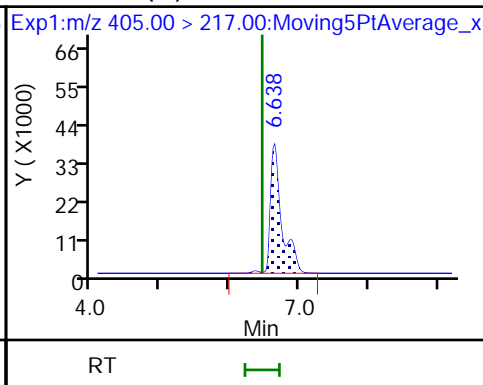
Amount Added: 1.00

Units: mL

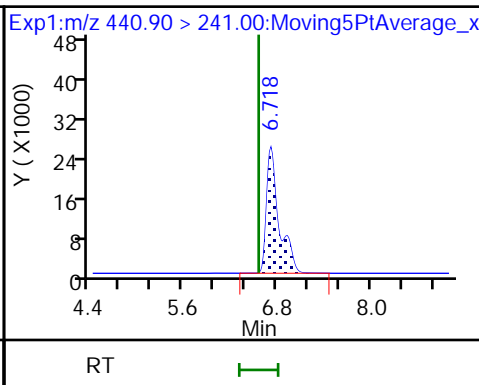
1 PFMOAA (M)



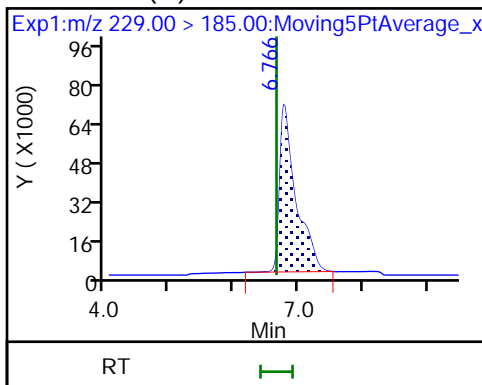
2 R-EVE (M)



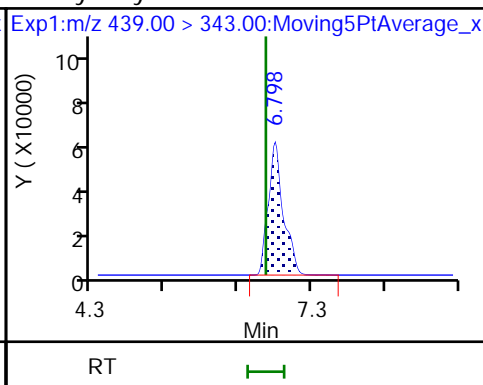
3 R-PSDA



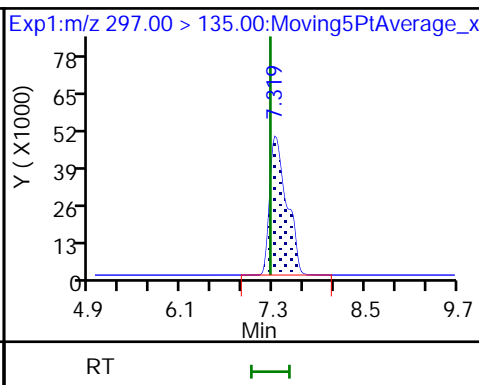
23 PMPA (M)



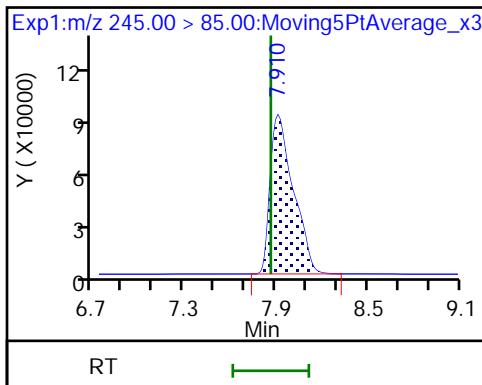
4 Hydrolyzed PSDA



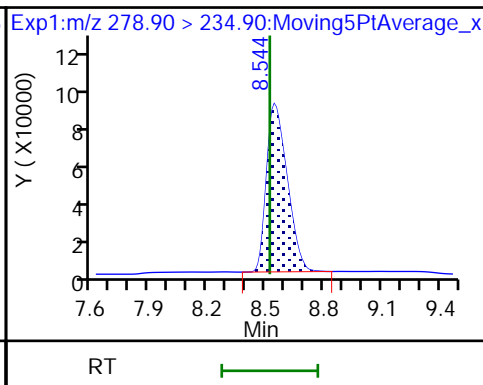
5 NVHOS



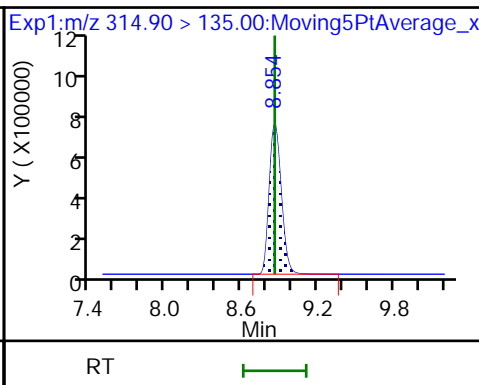
6 PFO2HxA



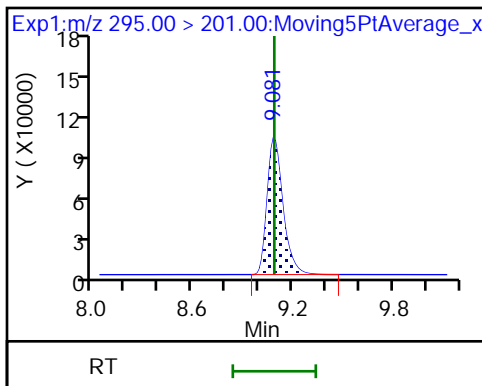
22 PEPA



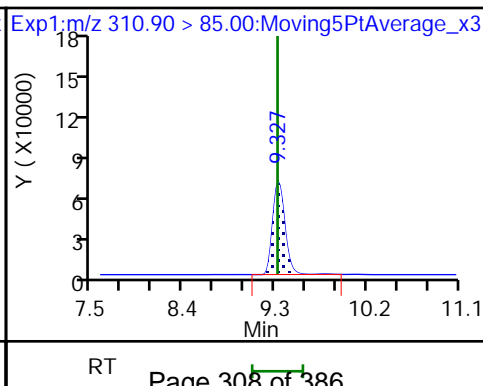
7 PES



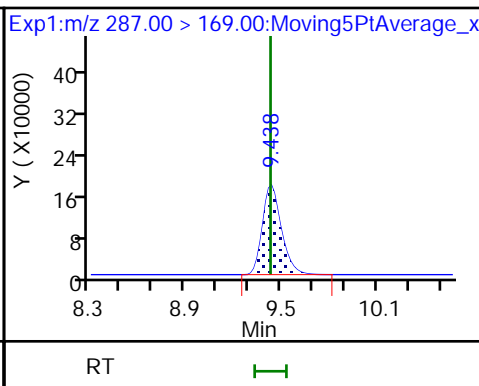
8 PFECA B



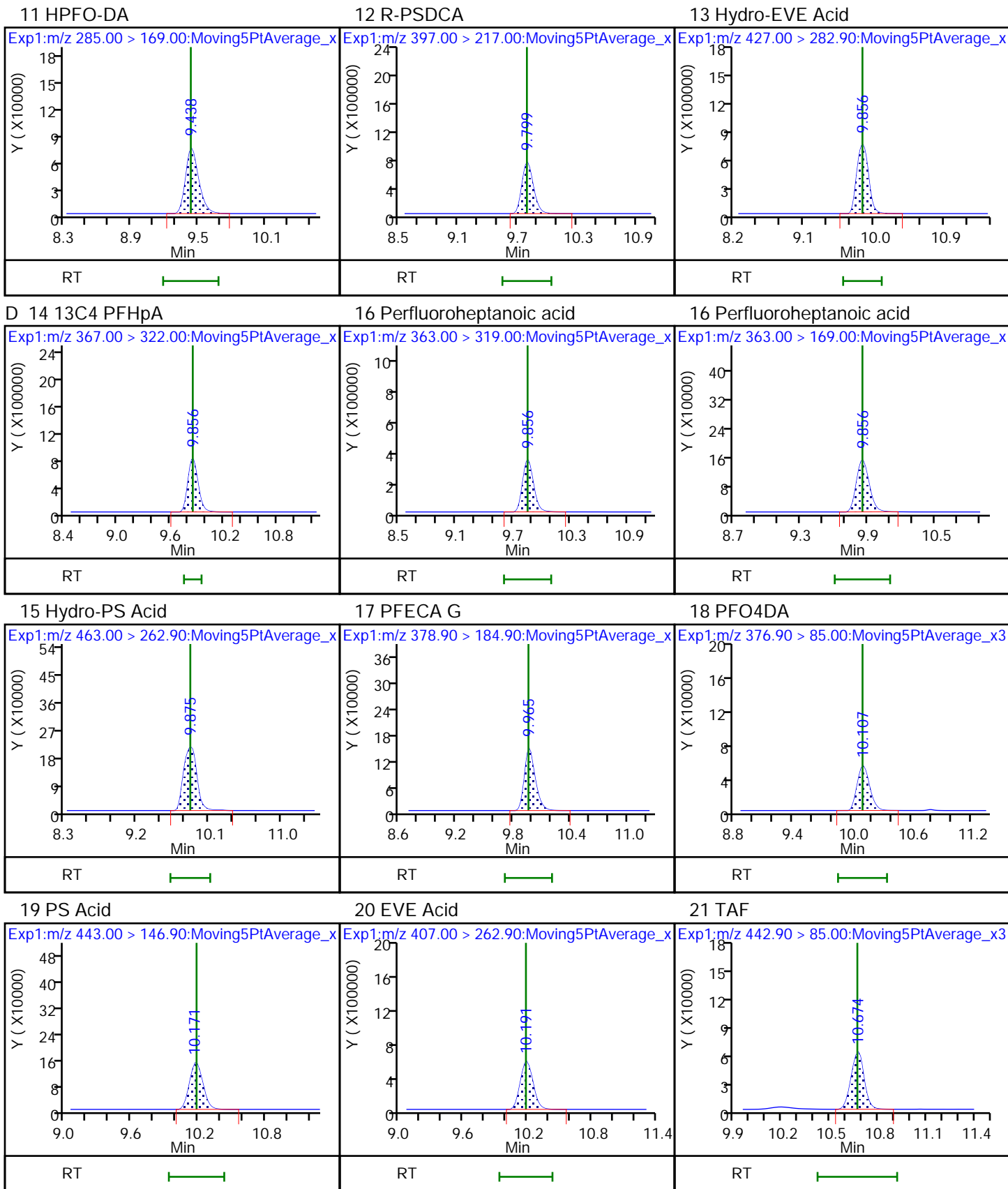
9 PFO3OA



D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

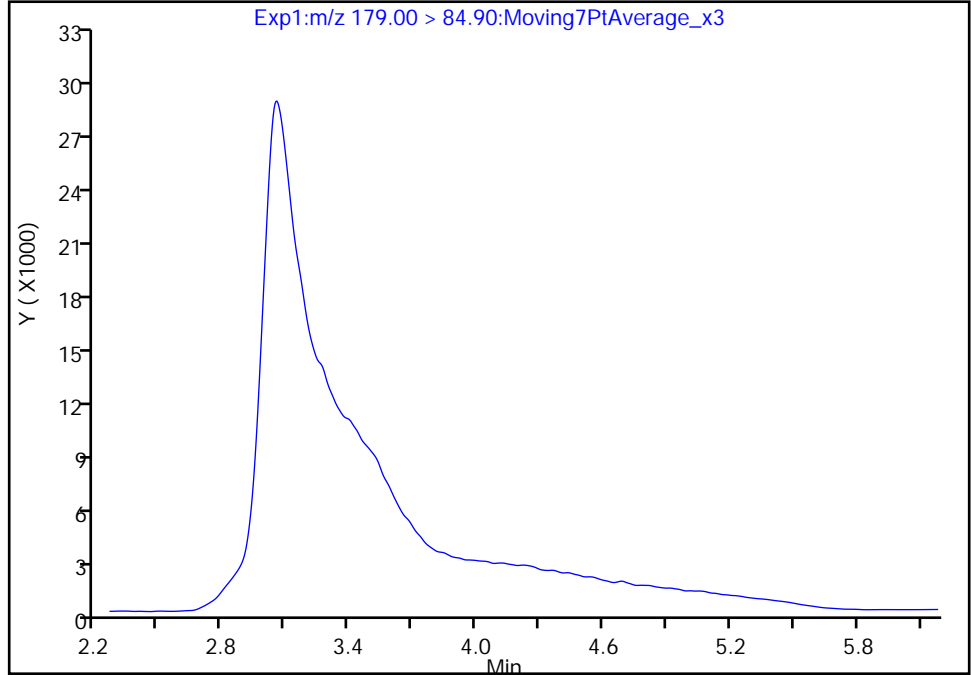
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Injection Date: 24-Feb-2021 07:03:49 Instrument ID: A10  
Lims ID: CCV L7 (431)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

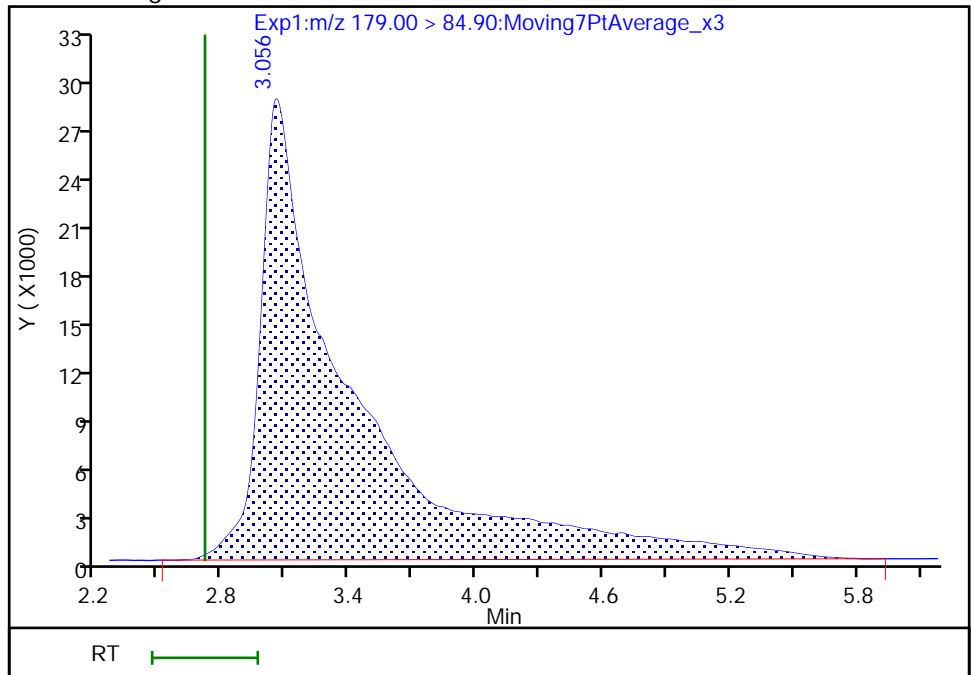
Not Detected  
Expected RT: 2.72

Processing Integration Results



RT: 3.06  
Area: 840848  
Amount: 0.083983  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:21:36  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

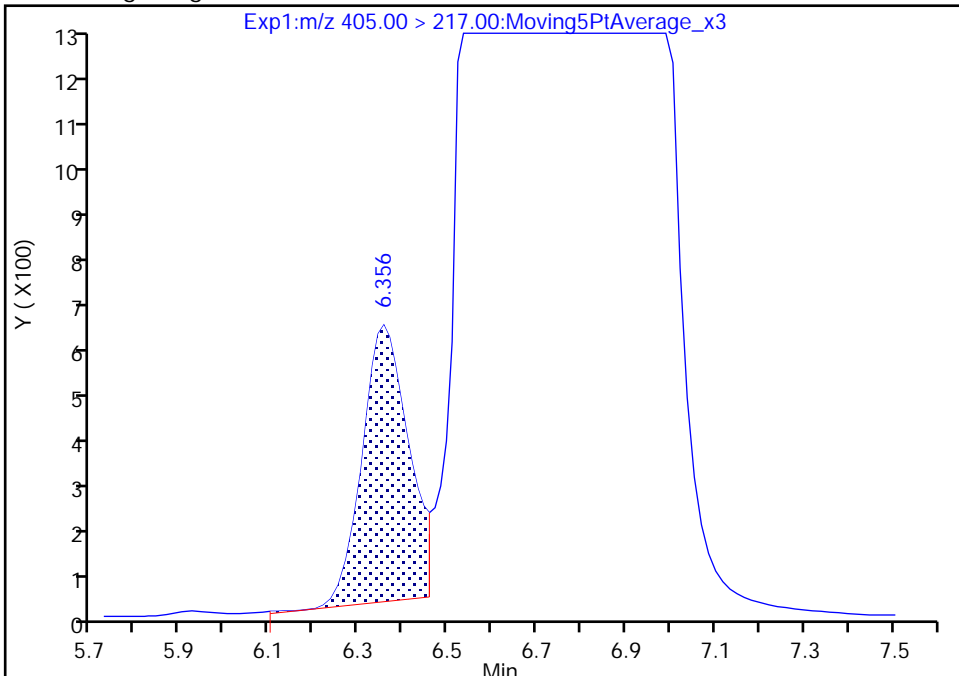
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Injection Date: 24-Feb-2021 07:03:49 Instrument ID: A10  
Lims ID: CCV L7 (431)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

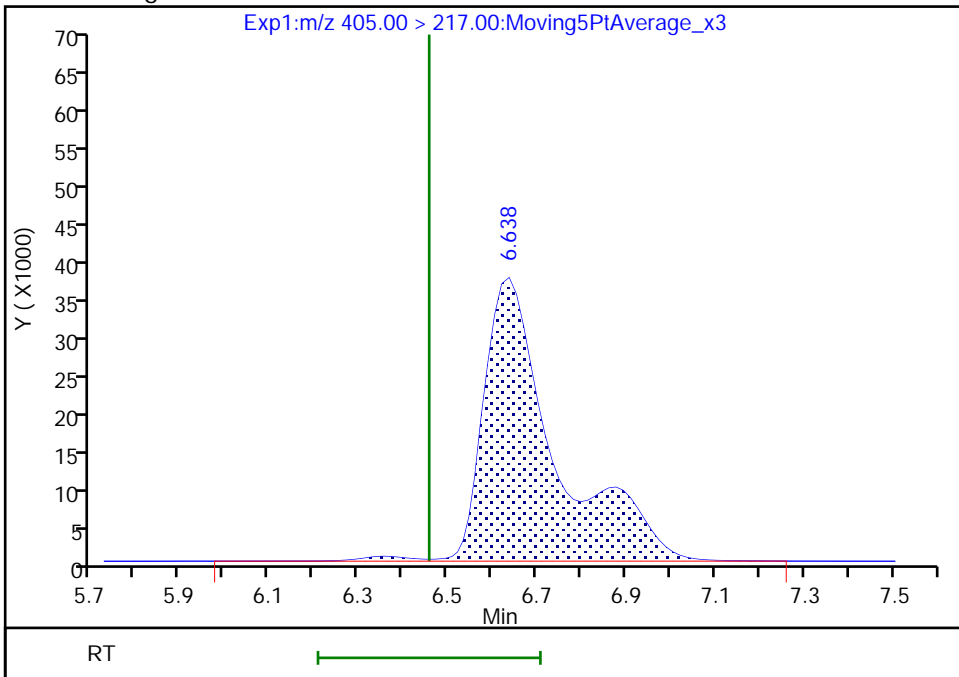
RT: 6.36  
Area: 4316  
Amount: 0.001049  
Amount Units: ng/ml

Processing Integration Results



RT: 6.64  
Area: 421926  
Amount: 0.102563  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:21:39  
Audit Action: Manually Integrated

Euofins TestAmerica, Sacramento

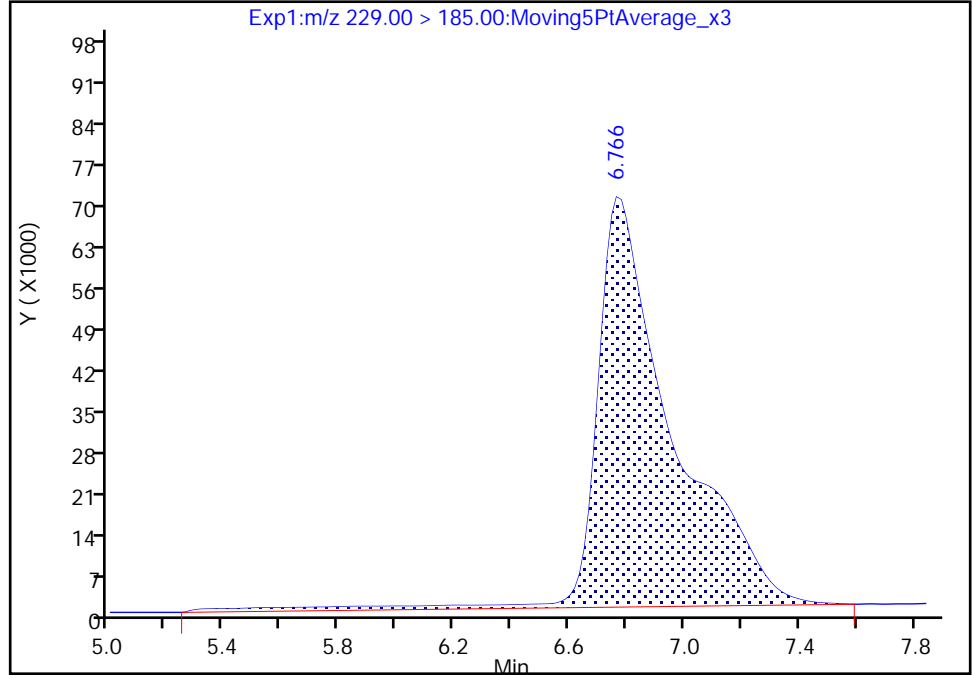
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Injection Date: 24-Feb-2021 07:03:49 Instrument ID: A10  
Lims ID: CCV L7 (431)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 27 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

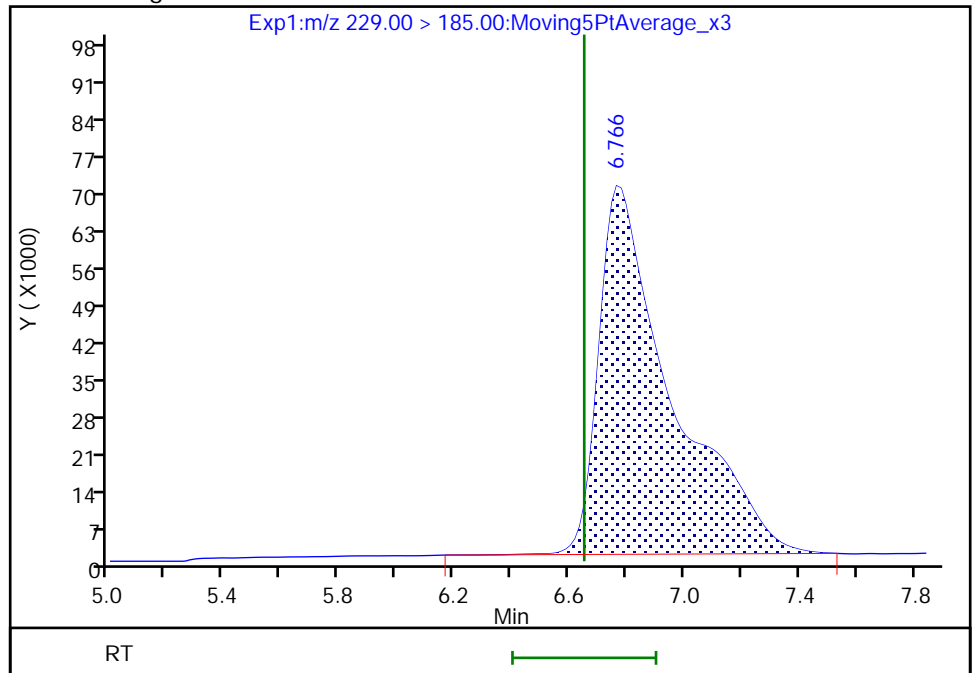
RT: 6.77  
Area: 1284007  
Amount: 0.100911  
Amount Units: ng/ml

Processing Integration Results



RT: 6.77  
Area: 1221888  
Amount: 0.095920  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:21:47  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-464205/27 Calibration Date: 02/24/2021 10:50  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.23\_A10\_TB3+\_B\_040.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	8149790		81.4	100	-18.6	30.0
R-EVE	Ave	4113840	4125360		100	100	0.3	50.0
R-PSDA	Ave	2716137	2753480		101	100	1.4	50.0
Hydrolyzed PSDA	Ave	7941832	8258170		104	100	4.0	50.0
PMPA	Lin2		11412490		89.4	100	-10.6	30.0
NVHOS	Ave	7666241	7063990		92.1	100	-7.9	30.0
PFO2HxA	Ave	9391118	8947150		95.3	100	-4.7	30.0
PEPA	Ave	5591875	6035290		108	100	7.9	30.0
PES	Ave	46961888	45029760		95.9	100	-4.1	30.0
PFECA B	Ave	6491153	6370760		98.1	100	-1.9	30.0
PFO3OA	Ave	5993289	5482420		91.5	100	-8.5	30.0
HFPO-DA	AveID	1.089	1.057		97.1	100	-2.9	40.0
R-PSDCA	Ave	62863071	57165040		90.9	100	-9.1	30.0
Hydro-EVE Acid	Ave	78962538	70278360		89.0	100	-11.0	30.0
Perfluoroheptanoic acid	L2ID		1.055		99.7	100	-0.3	40.0
Hydro-PS Acid	Ave	25408908	23670710		93.2	100	-6.8	30.0
PFECA G	Ave	9393669	10935460		116	100	16.4	30.0
PFO4DA	Ave	5158483	4489160		87.0	100	-13.0	30.0
EVE Acid	Ave	45172088	45191430		100	100	0.0	30.0
PS Acid	Ave	11430757	11518680		101	100	0.8	30.0
PFO5DA	Ave	3748927	2750720		73.4	100	-26.6	50.0
13C3 HFPO-DA	Ave	5532191	5488136		248	250	-0.8	50.0
13C4 PFHpA	Ave	25406808	24634244		242	250	-3.0	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_040.d  
 Lims ID: CCV L7 (434)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 24-Feb-2021 10:50:47 ALS Bottle#: 40 Worklist Smp#: 27  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (434)  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:50:16 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: vangmy Date: 24-Feb-2021 11:35:04

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.741	2.716	0.025		814979	0.0814		81.4	112	M
2 R-EVE										M
405.00 > 217.00	6.484	6.458	0.026		412536	0.1003		100	9813	M
3 R-PSDA										
440.90 > 241.00	6.573	6.560	0.013		275348	0.1014		101	6654	
23 PMPA										
229.00 > 185.00	6.669	6.653	0.016		1141249	0.0894		89.4	483	
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.669	6.669	0.0		825817	0.1040		104	14738	M
5 NVHOS										M
297.00 > 135.00	7.260	7.260	0.0		706399	0.0921		92.1	12652	M
6 PFO2HxA										
245.00 > 85.00	7.863	7.863	0.0		894715	0.0953		95.3	9073	
22 PEPA										
278.90 > 234.90	8.521	8.521	0.0		603529	0.1079		108	948	
7 PES										
314.90 > 135.00	8.861	8.860	0.001		4502976	0.0959		95.9	152929	
8 PFECA B										
295.00 > 201.00	9.087	9.087	0.0		637076	0.0981		98.1	17772	
9 PFO3OA										
310.90 > 85.00	9.321	9.321	0.0		548242	0.0915		91.5	5901	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1372034	0.2480		99.2	55664	
11 HPFO-DA										
285.00 > 169.00	9.432	9.432	0.0	1.000	580114	0.0971		97.1	23456	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.792	9.792	0.0		5716504	0.0909		90.9	177074	
13 Hydro-EVE Acid										
427.00 > 282.90	9.850	9.849	0.001		7027836	0.0890		89.0	95717	
D 14 13C4 PFHpA										
367.00 > 322.00	9.850	9.849	0.001		6158561	0.2424		97.0	128308	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.850	9.849	0.001	1.000	2598734	0.0997	Target=0.00	99.7	18097	
363.00 > 169.00	9.850	9.849	0.001	1.000	1092554		2.38(0.00-0.00)		27419	
15 Hydro-PS Acid										
463.00 > 262.90	9.888	9.868	0.020		2367071	0.0932		93.2	51519	
17 PFECA G										
378.90 > 184.90	9.959	9.958	0.0		1093546	0.1164		116	45414	
18 PFO4DA										
376.90 > 85.00	10.101	10.100	0.001		448916	0.0870		87.0	3005	
19 PS Acid										
443.00 > 146.90	10.184	10.184	0.0		1151868	0.1008		101	34689	
20 EVE Acid										
407.00 > 262.90	10.184	10.184	0.0		4519143	0.1000		100	90986	
21 TAF										
442.90 > 85.00	10.683	10.668	0.015		275072	0.0734		73.4	487	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00434

Amount Added: 1.00

Units: mL



Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_040.d

Injection Date: 24-Feb-2021 10:50:47

Instrument ID: A10

Lims ID: CCV L7 (434)

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 40

Worklist Smp#: 27

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

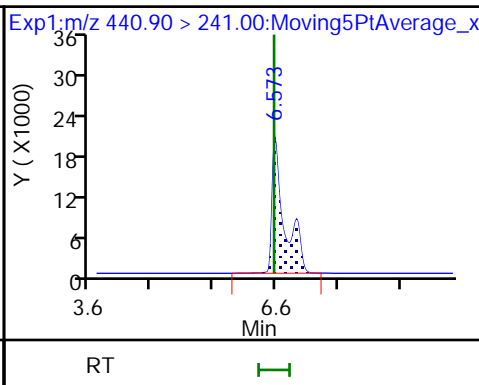
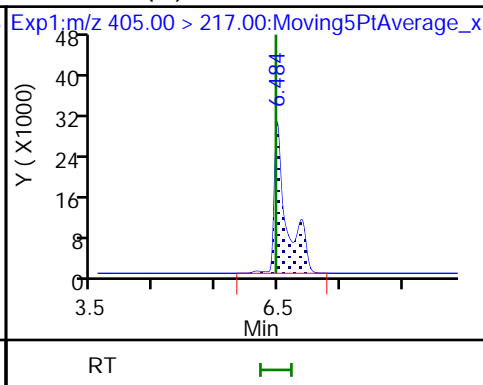
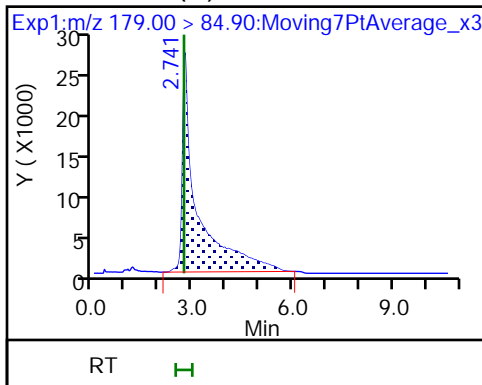
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

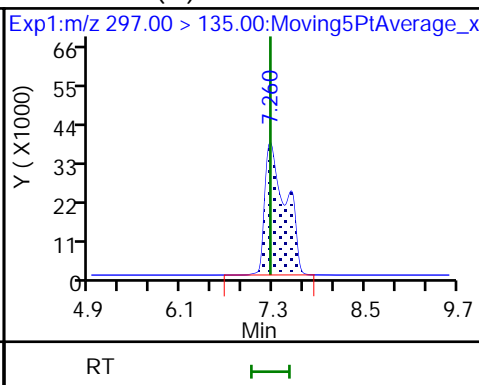
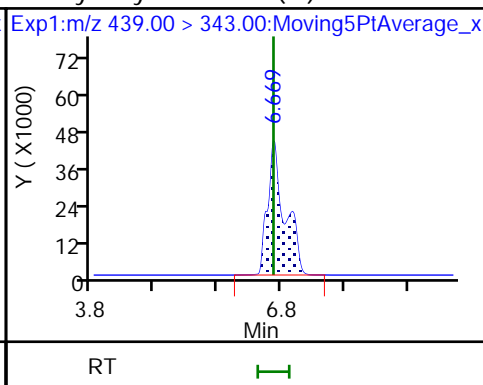
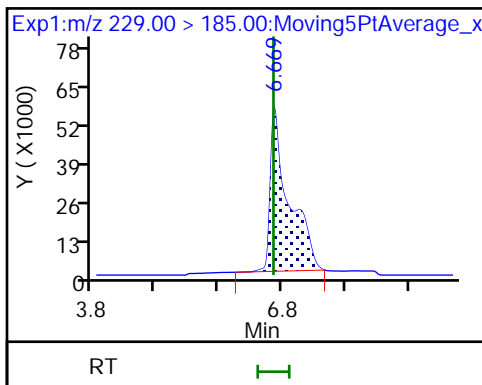
3 R-PSDA



23 PMPA

4 Hydrolyzed PSDA (M)

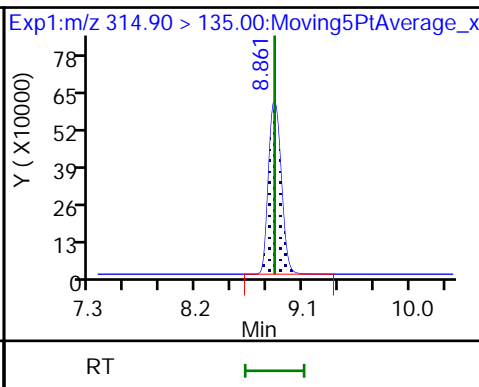
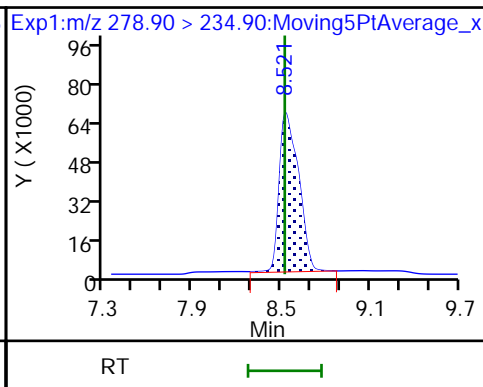
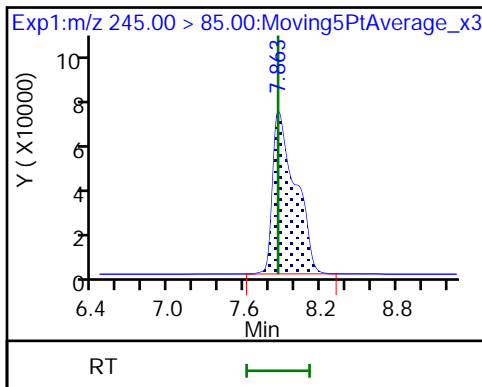
5 NVHOS (M)



6 PFO2HxA

22 PEPA

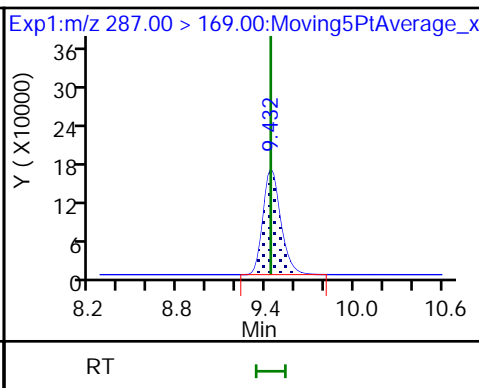
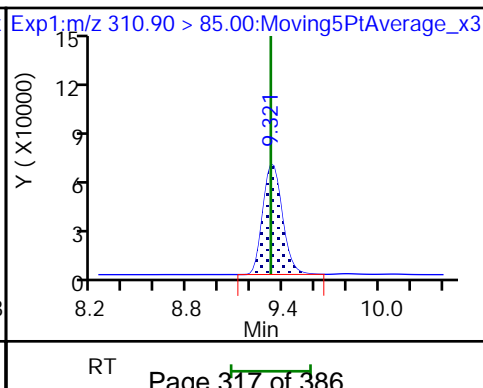
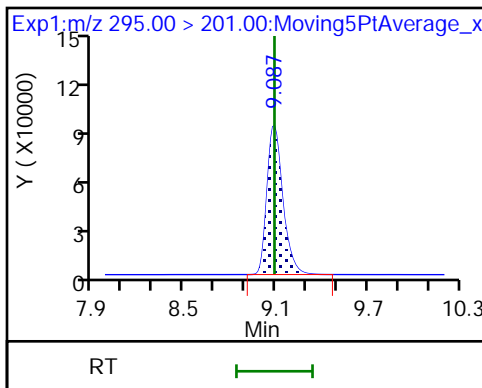
7 PES

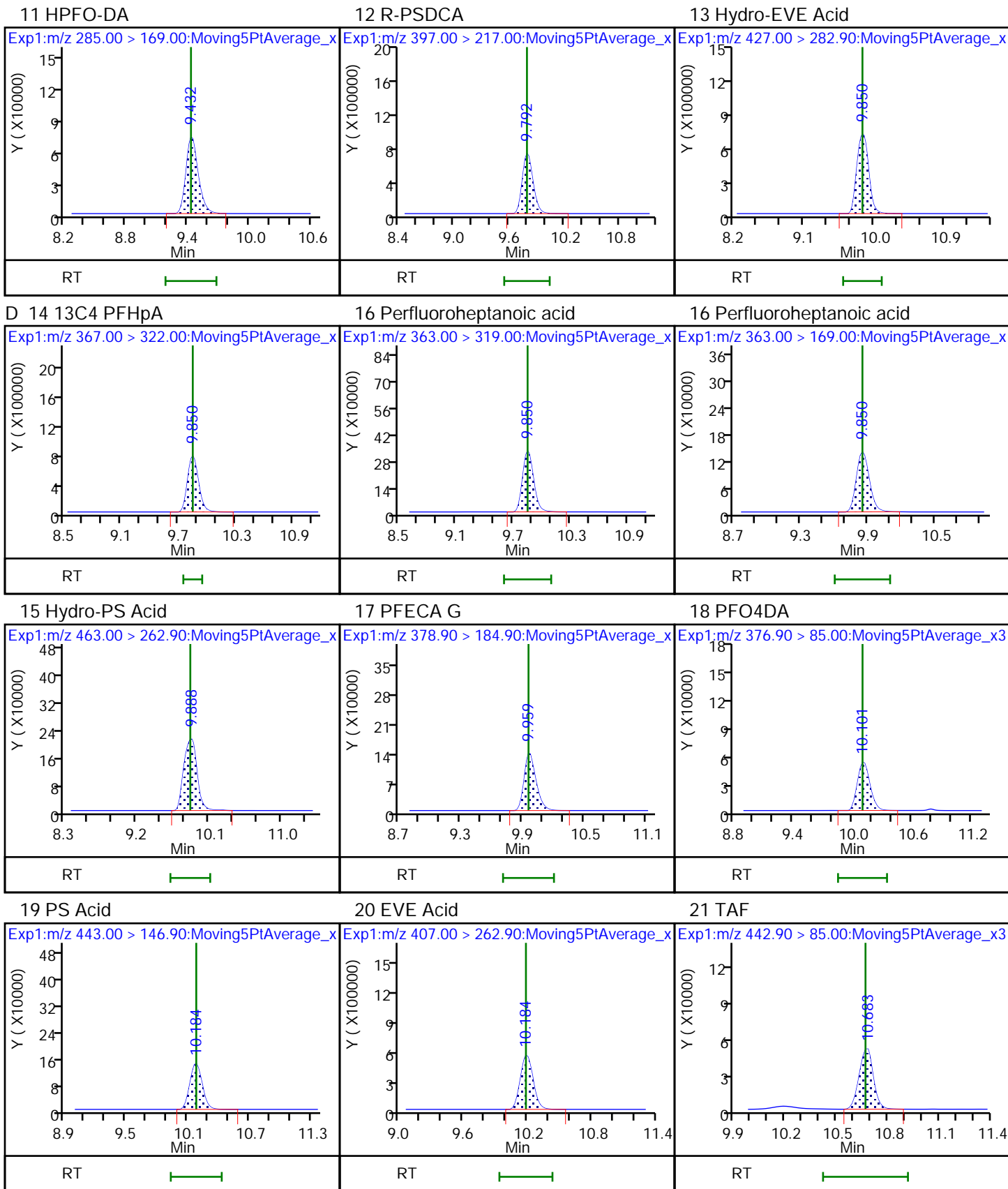


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

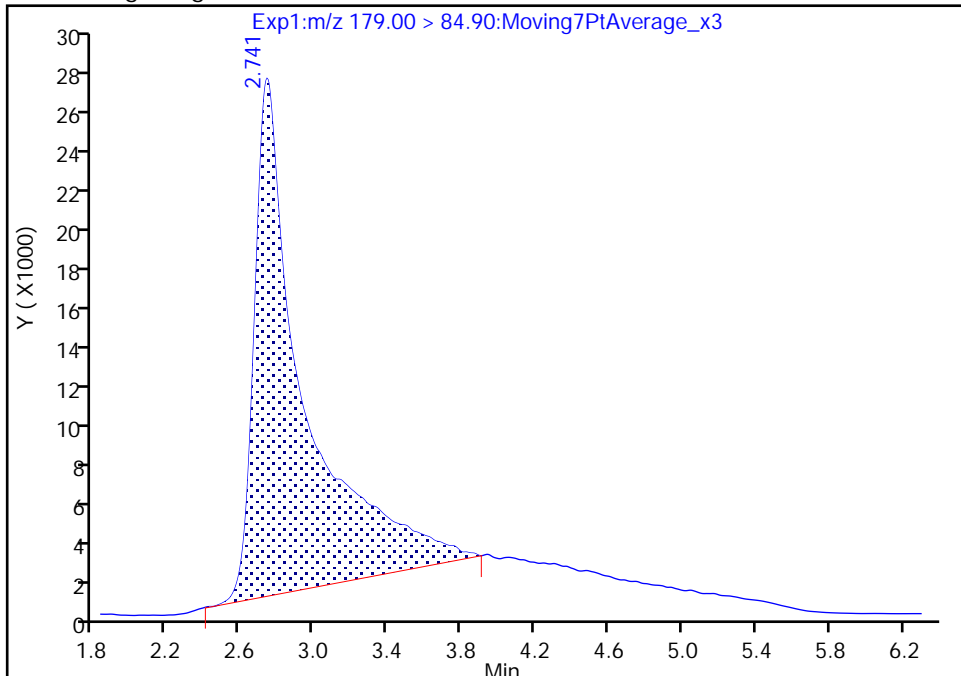
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Injection Date: 24-Feb-2021 10:50:47 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 40 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

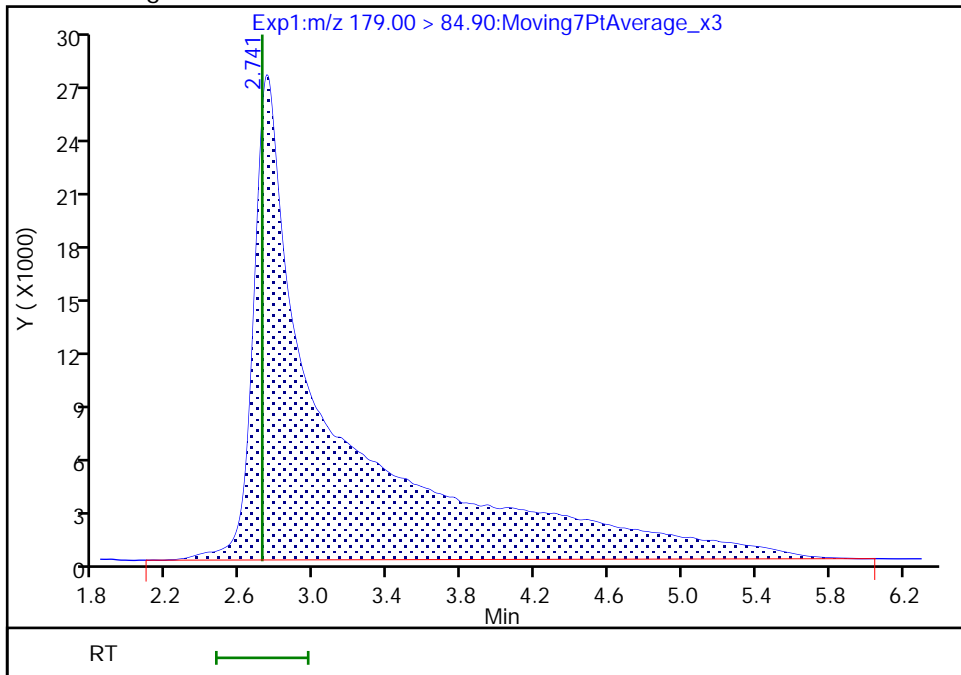
RT: 2.74  
Area: 493401  
Amount: 0.049280  
Amount Units: ng/ml

Processing Integration Results



RT: 2.74  
Area: 814979  
Amount: 0.081399  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 25-Feb-2021 07:50:06  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 320 of 386

Eurofins TestAmerica, Sacramento

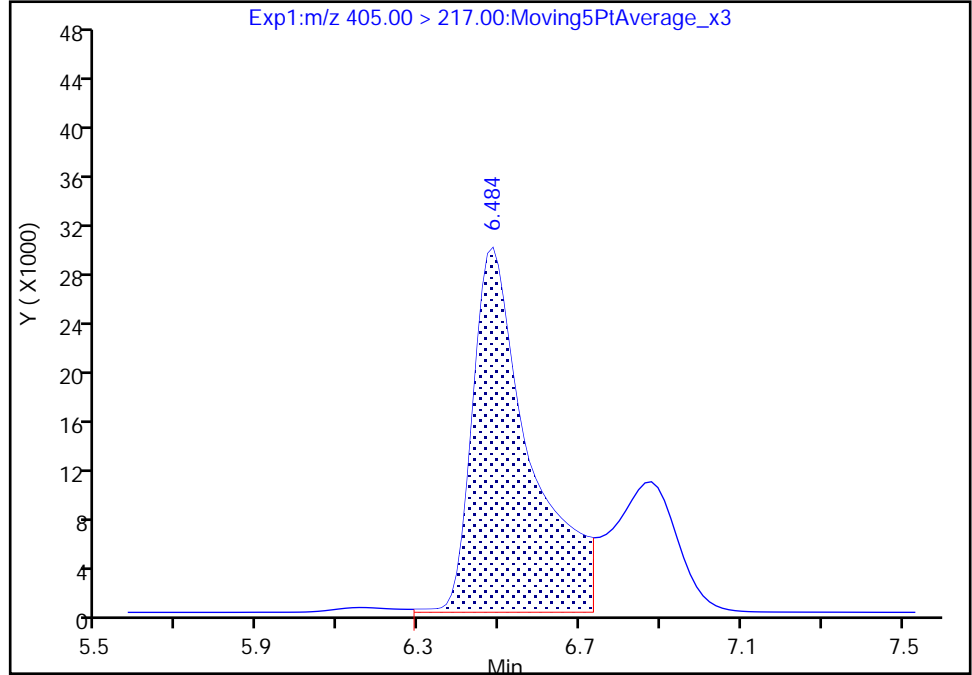
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Injection Date: 24-Feb-2021 10:50:47 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 40 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

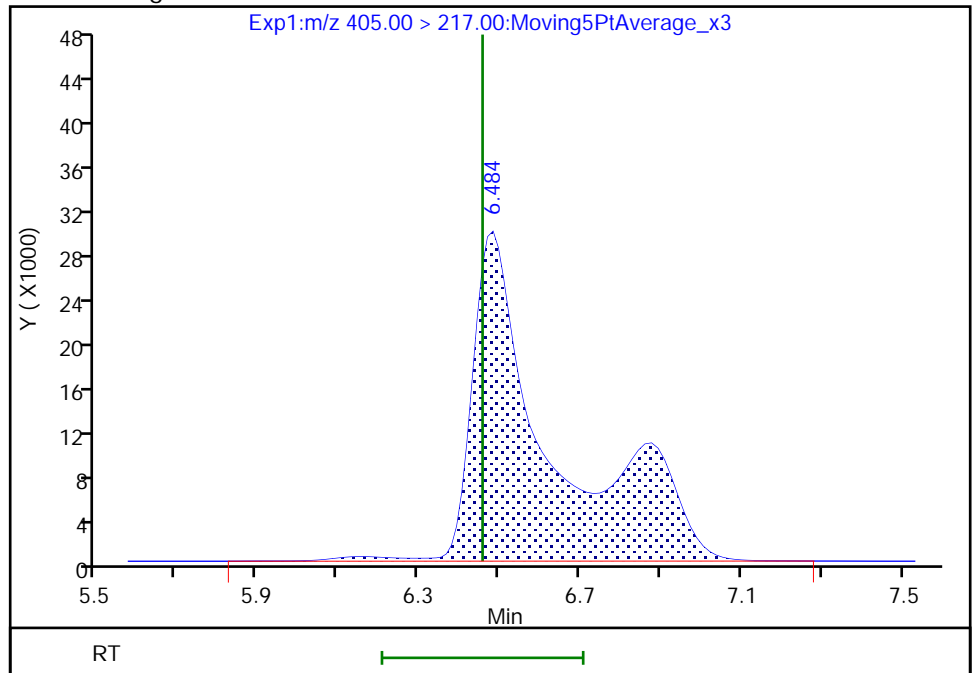
RT: 6.48  
Area: 289769  
Amount: 0.070438  
Amount Units: ng/ml

Processing Integration Results



RT: 6.48  
Area: 412536  
Amount: 0.100280  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 11:34:32  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

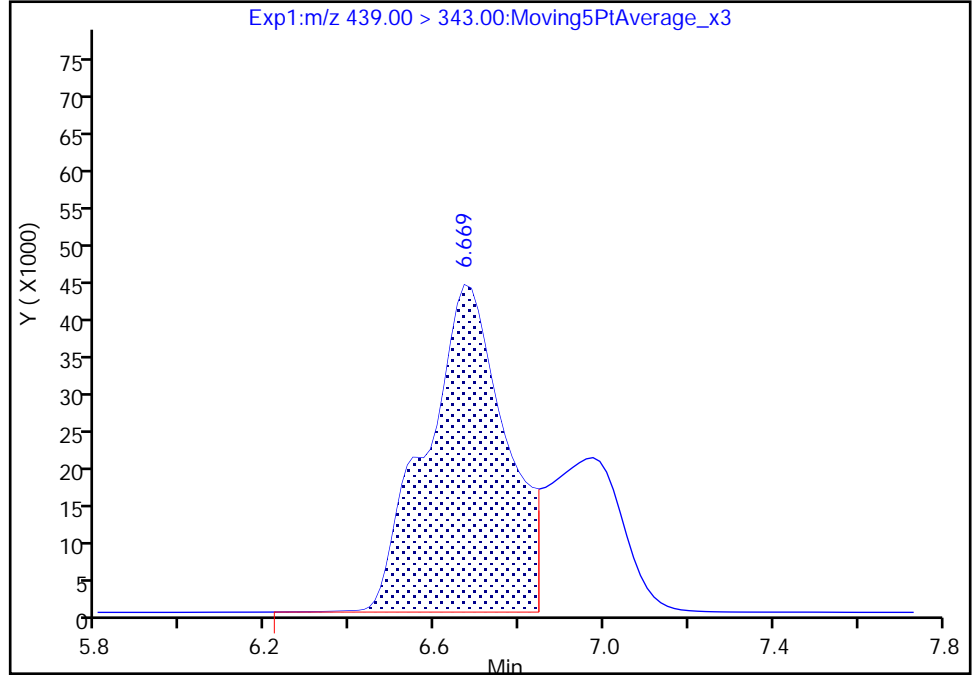
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Injection Date: 24-Feb-2021 10:50:47 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 40 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

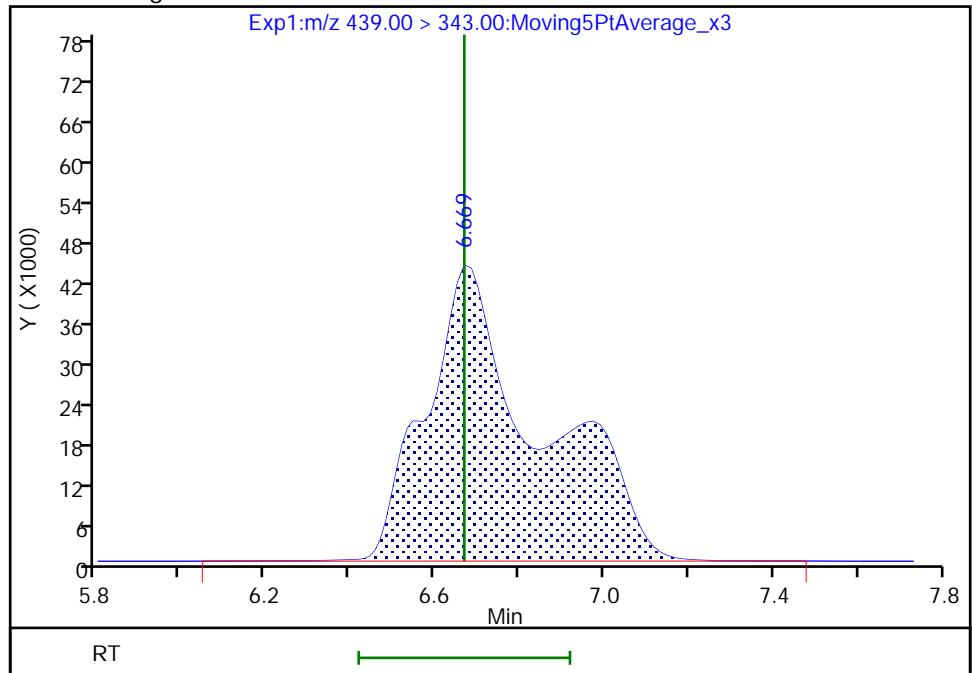
RT: 6.67  
Area: 573431  
Amount: 0.072204  
Amount Units: ng/ml

Processing Integration Results



RT: 6.67  
Area: 825817  
Amount: 0.103983  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 11:34:37  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

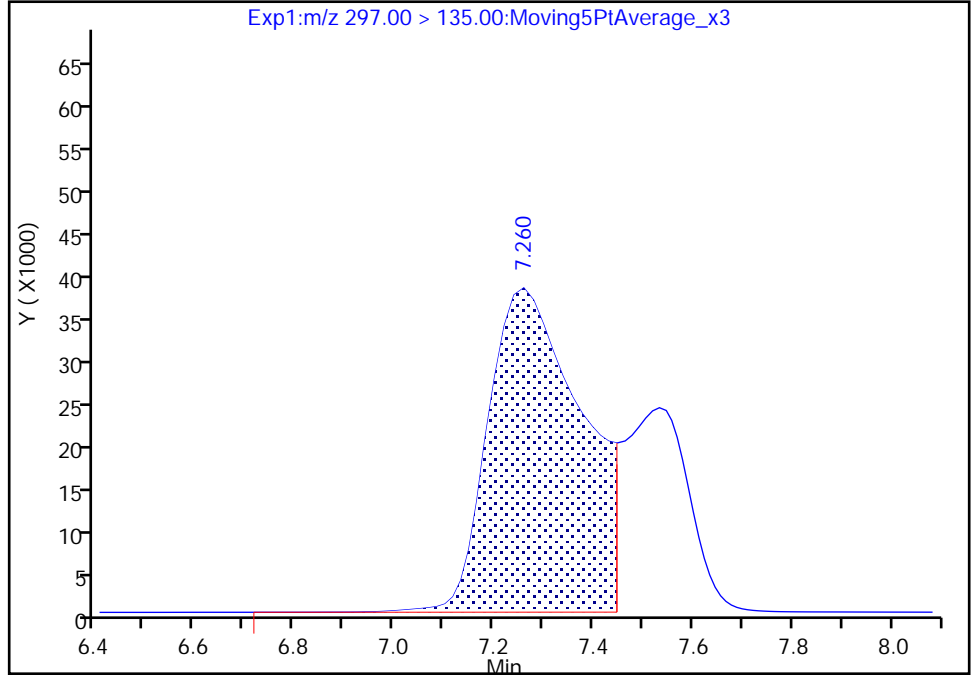
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Injection Date: 24-Feb-2021 10:50:47 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 40 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

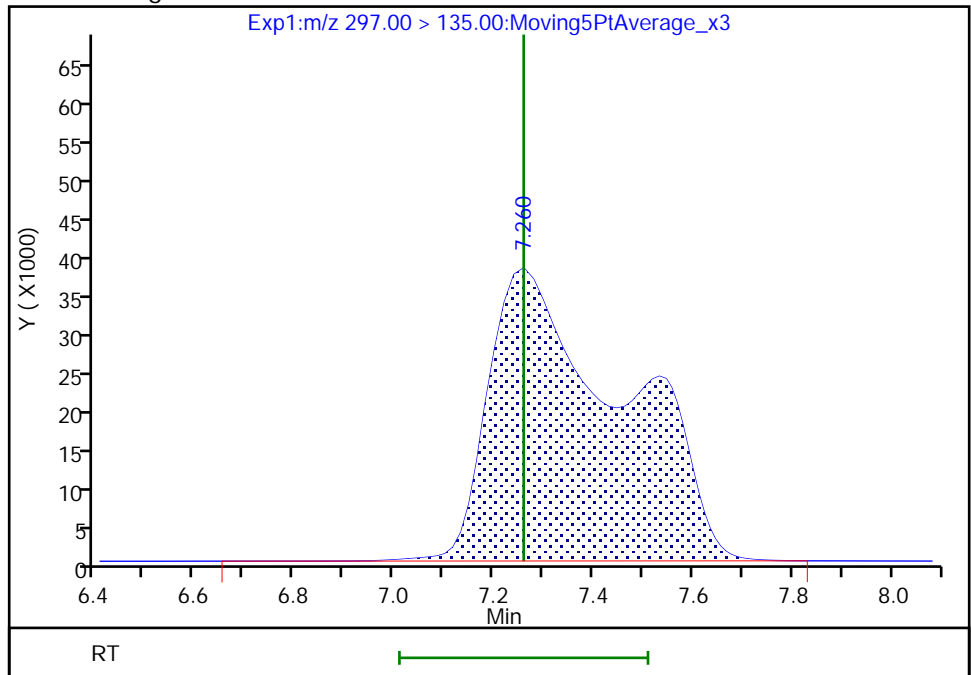
RT: 7.26  
Area: 492664  
Amount: 0.064264  
Amount Units: ng/ml

Processing Integration Results



RT: 7.26  
Area: 706399  
Amount: 0.092144  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 11:34:40  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-464873/20 Calibration Date: 02/25/2021 17:16  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_021.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	9460530		94.5	100	-5.5	30.0
R-EVE	Ave	4113840	4387600		107	100	6.7	50.0
R-PSDA	Ave	2716137	2806950		103	100	3.3	50.0
Hydrolyzed PSDA	Ave	7941832	8669620		109	100	9.2	50.0
PMPA	Lin2		12408740		97.4	100	-2.6	30.0
NVHOS	Ave	7666241	7149930		93.3	100	-6.7	30.0
PFO2HxA	Ave	9391118	10366130		110	100	10.4	30.0
PEPA	Ave	5591875	6064640		108	100	8.5	30.0
PES	Ave	46961888	45061860		96.0	100	-4.0	30.0
PFECA B	Ave	6491153	7186110		111	100	10.7	30.0
PFO3OA	Ave	5993289	6584450		110	100	9.9	30.0
HFPO-DA	AveID	1.089	1.031		94.7	100	-5.3	40.0
R-PSDCA	Ave	62863071	60984470		97.0	100	-3.0	30.0
Hydro-EVE Acid	Ave	78962538	75640650		95.8	100	-4.2	30.0
Perfluoroheptanoic acid	L2ID		1.034		97.8	100	-2.2	40.0
Hydro-PS Acid	Ave	25408908	23815210		93.7	100	-6.3	30.0
PFECA G	Ave	9393669	11891050		127	100	26.6	30.0
PFO4DA	Ave	5158483	6180890		120	100	19.8	30.0
EVE Acid	Ave	45172088	48859400		108	100	8.2	30.0
PS Acid	Ave	11430757	12080090		106	100	5.7	30.0
PFO5DA	Ave	3748927	3856540		103	100	2.9	50.0
13C3 HFPO-DA	Ave	5532191	5584176		252	250	0.9	50.0
13C4 PFHpA	Ave	25406808	25404444		250	250	-0.0	50.0



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_021.d  
 Lims ID: CCV L7 (429)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 25-Feb-2021 17:16:04 ALS Bottle#: 21 Worklist Smp#: 20  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (429)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1

Method: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 26-Feb-2021 09:34:40 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1686

First Level Reviewer: ruangyotsakuld Date: 26-Feb-2021 08:41:10  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.404	2.716	0.688		946053	0.0945		94.5	152	M
2 R-EVE										M
405.00 > 217.00	6.685	6.458	0.227		438760	0.1067		107	15071	M
3 R-PSDA										
440.90 > 241.00	6.749	6.560	0.189		280695	0.1033		103	9761	
23 PMPA										
229.00 > 185.00	6.862	6.653	0.209		1240874	0.0974		97.4	900	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.829	6.669	0.160		866962	0.1092		109	23422	
5 NVHOS										
297.00 > 135.00	7.378	7.260	0.118		714993	0.0933		93.3	20404	
6 PFO2HxA										
245.00 > 85.00	7.941	7.863	0.078		1036613	0.1104		110	15339	
22 PEPA										
278.90 > 234.90	8.557	8.521	0.036		606464	0.1085		108	1438	
7 PES										
314.90 > 135.00	8.856	8.860	-0.004		4506186	0.0960		96.0	190037	
8 PFECA B										
295.00 > 201.00	9.083	9.087	-0.004		718611	0.1107		111	23664	
9 PFO3OA										
310.90 > 85.00	9.329	9.321	0.008		658445	0.1099		110	13392	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.422	9.432	-0.010		1396044	0.2523		101	58245	
11 HPFO-DA										
285.00 > 169.00	9.422	9.432	-0.010	1.000	575873	0.0947		94.7	23820	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.781	9.792	-0.011		6098447	0.0970		97.0	152400	
13 Hydro-EVE Acid										
427.00 > 282.90	9.838	9.849	-0.011		7564065	0.0958		95.8	103360	
D 14 13C4 PFHpA										
367.00 > 322.00	9.838	9.849	-0.011		6351111	0.2500		100	133128	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.838	9.849	-0.011	1.000	2627052	0.0978	Target=0.00	97.8	20679	
363.00 > 169.00	9.838	9.849	-0.011	1.000	1117940		2.35(0.00-0.00)		28202	
15 Hydro-PS Acid										M
463.00 > 262.90	9.857	9.868	-0.011		2381521	0.0937		93.7	12412	M
17 PFECA G										
378.90 > 184.90	9.948	9.958	-0.010		1189105	0.1266		127	50203	
18 PFO4DA										
376.90 > 85.00	10.086	10.100	-0.014		618089	0.1198		120	4358	
19 PS Acid										
443.00 > 146.90	10.171	10.184	-0.013		1208009	0.1057		106	35959	
20 EVE Acid										
407.00 > 262.90	10.171	10.184	-0.013		4885940	0.1082		108	96719	
21 TAF										
442.90 > 85.00	10.659	10.668	-0.009		385654	0.1029		103	658	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00429

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_021.d

Injection Date: 25-Feb-2021 17:16:04

Instrument ID: A10

Lims ID: CCV L7 (429)

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 21

Worklist Smp#: 20

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

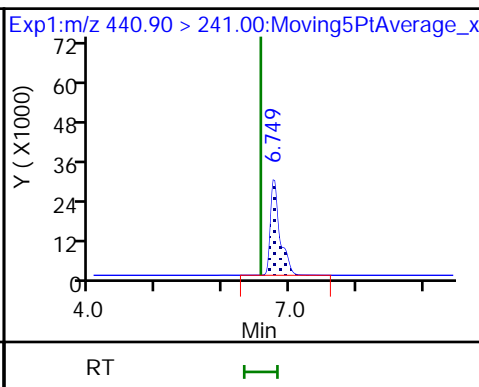
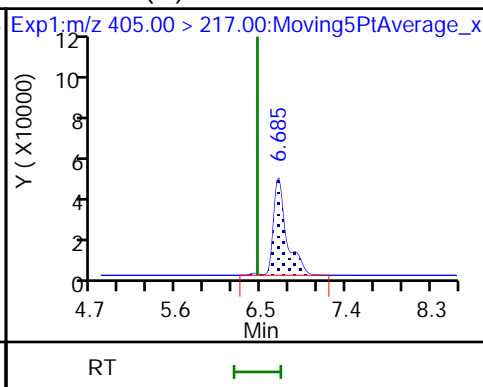
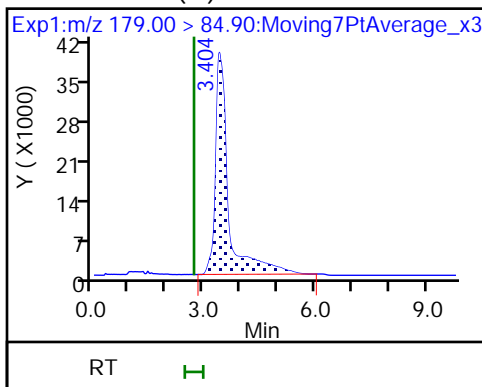
Method: A10\_PFAS\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

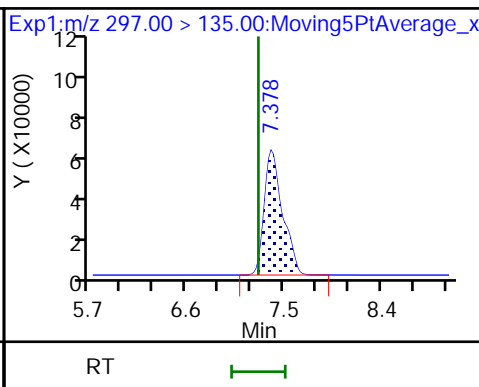
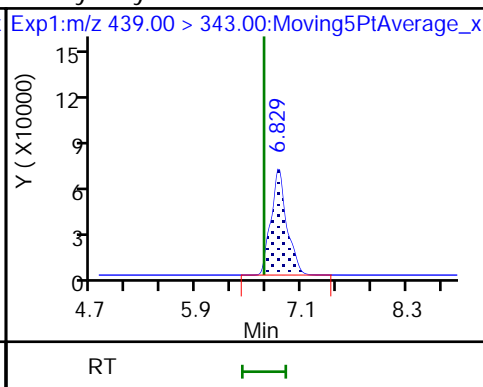
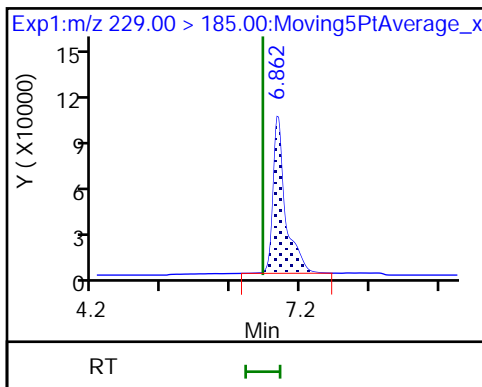
3 R-PSDA



23 PMPA

4 Hydrolyzed PSDA

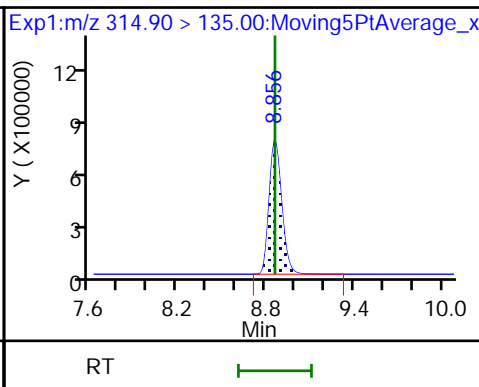
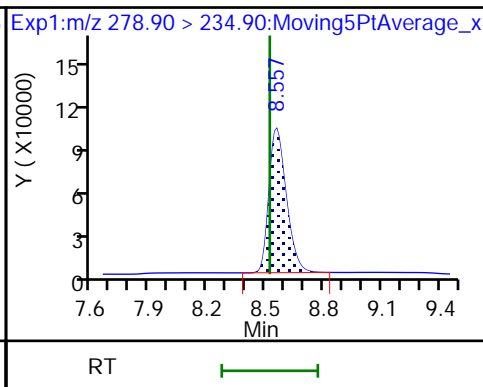
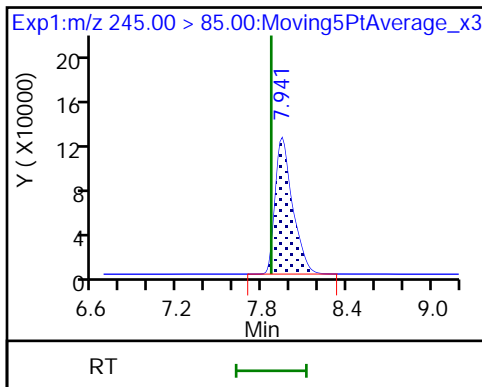
5 NVHOS



6 PFO2HxA

22 PEPA

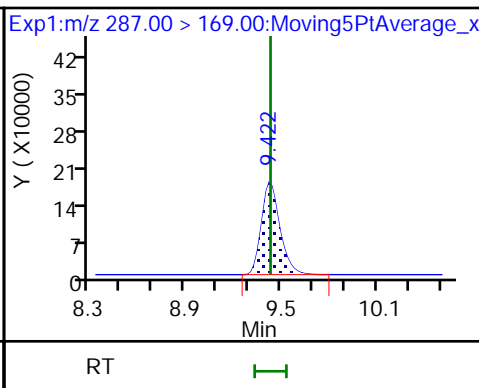
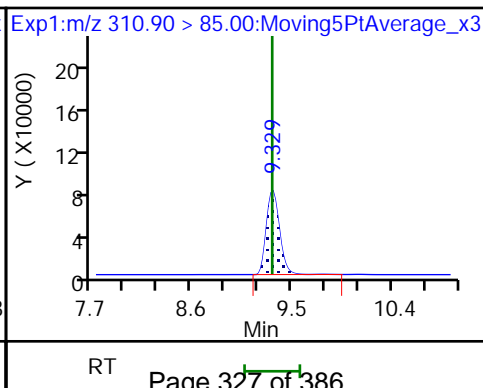
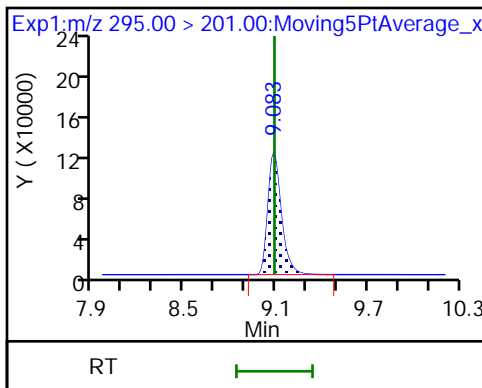
7 PES

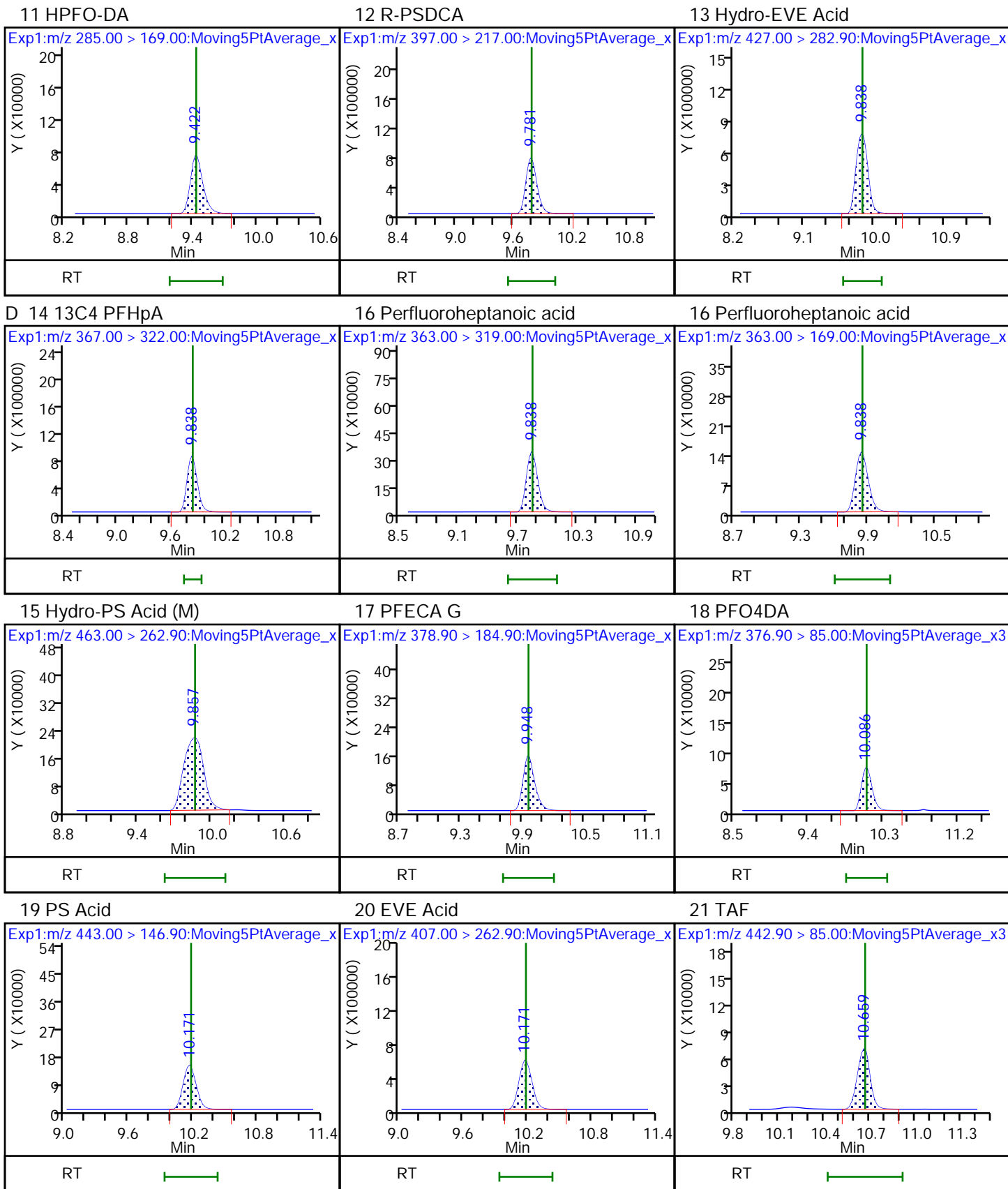


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

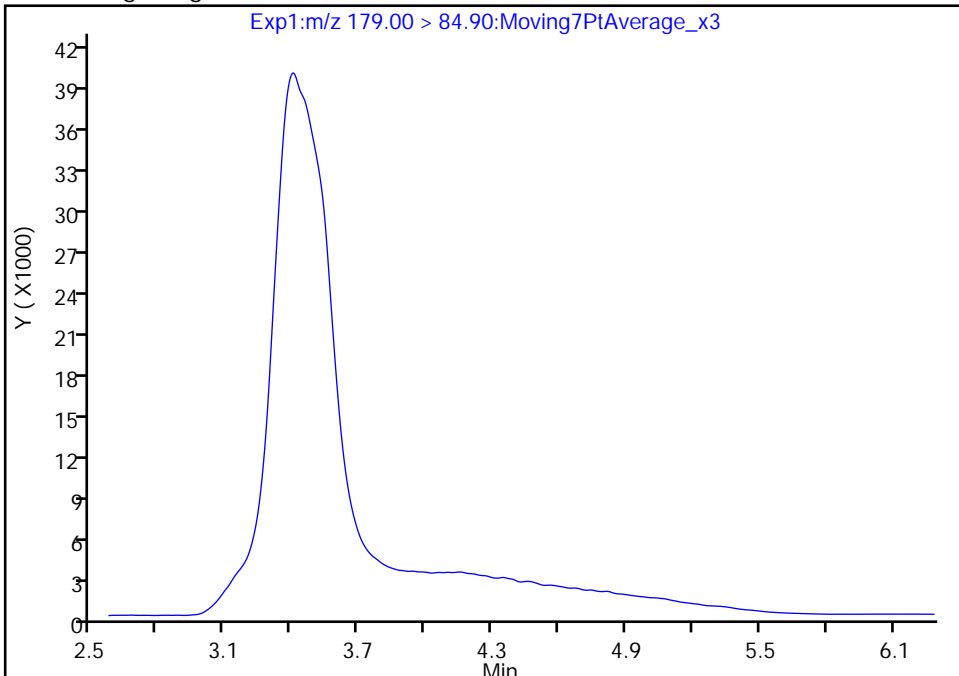
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_021.d  
Injection Date: 25-Feb-2021 17:16:04 Instrument ID: A10  
Lims ID: CCV L7 (429)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 21 Worklist Smp#: 20  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

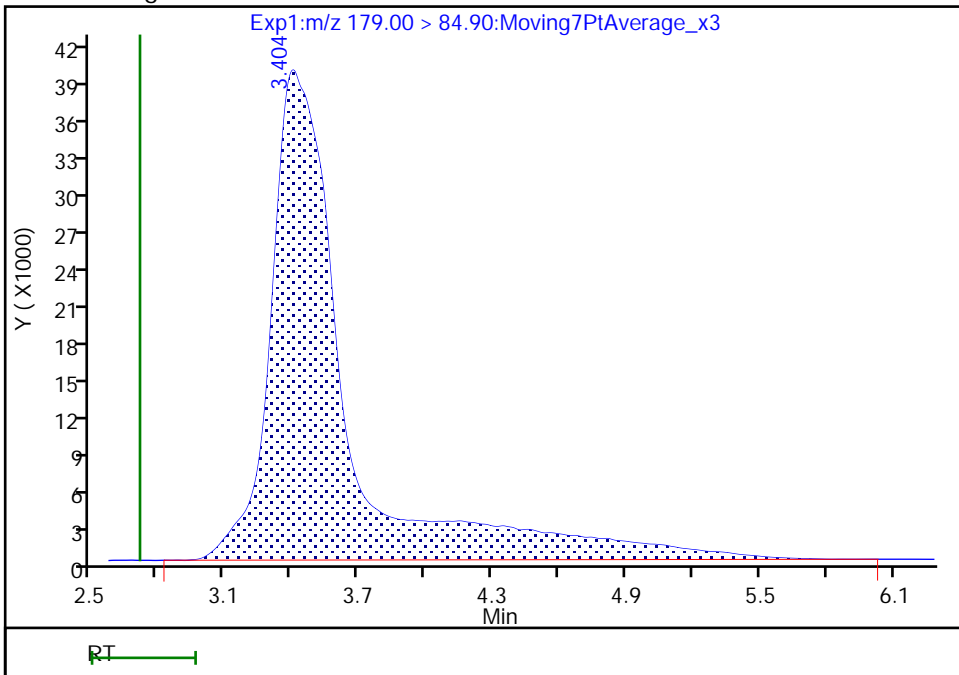
Not Detected  
Expected RT: 2.72

Processing Integration Results



Manual Integration Results

RT: 3.40  
Area: 946053  
Amount: 0.094490  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 26-Feb-2021 08:40:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

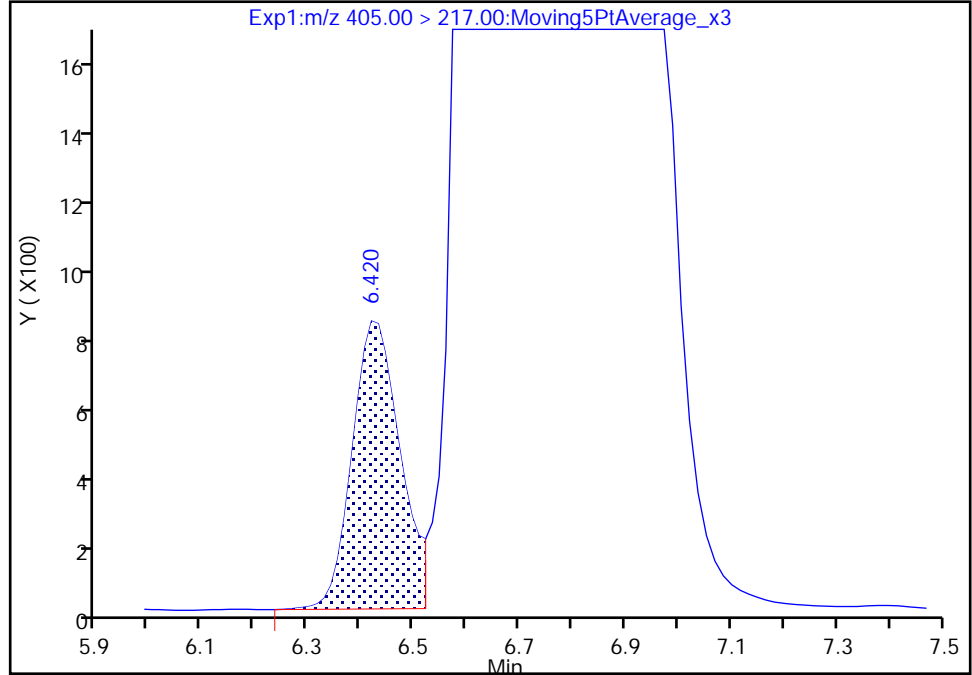
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_021.d  
Injection Date: 25-Feb-2021 17:16:04 Instrument ID: A10  
Lims ID: CCV L7 (429)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 21 Worklist Smp#: 20  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

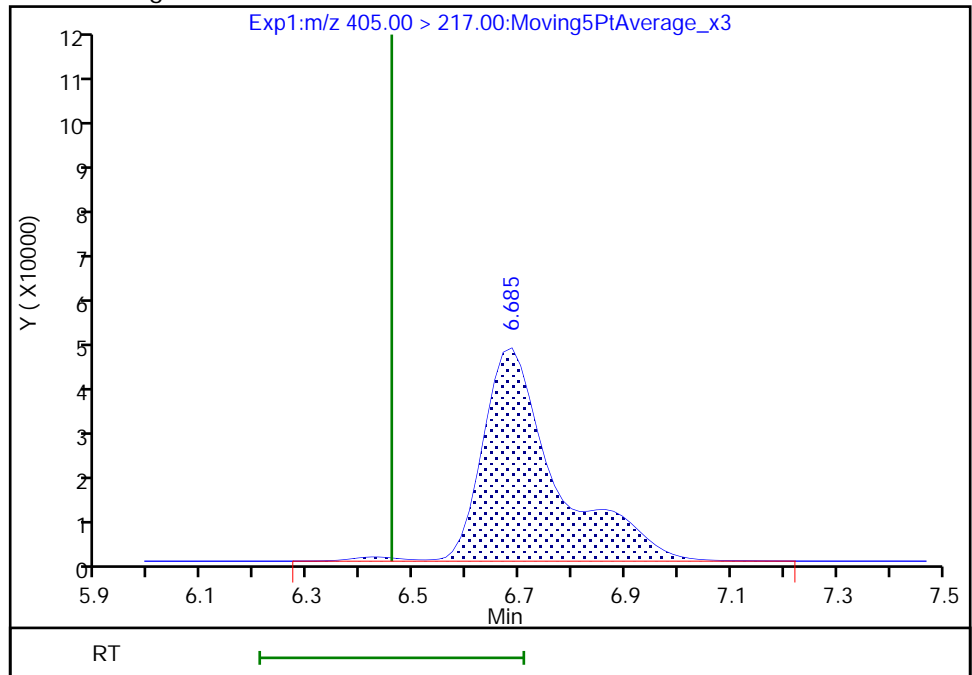
RT: 6.42  
Area: 5241  
Amount: 0.001274  
Amount Units: ng/ml

Processing Integration Results



RT: 6.69  
Area: 438760  
Amount: 0.106655  
Amount Units: ng/ml

Manual Integration Results



Reviewer: ruangyotsakuld, 26-Feb-2021 08:41:02

Audit Action: Manually Integrated

Audit Reason: Baseline

Eurofins TestAmerica, Sacramento

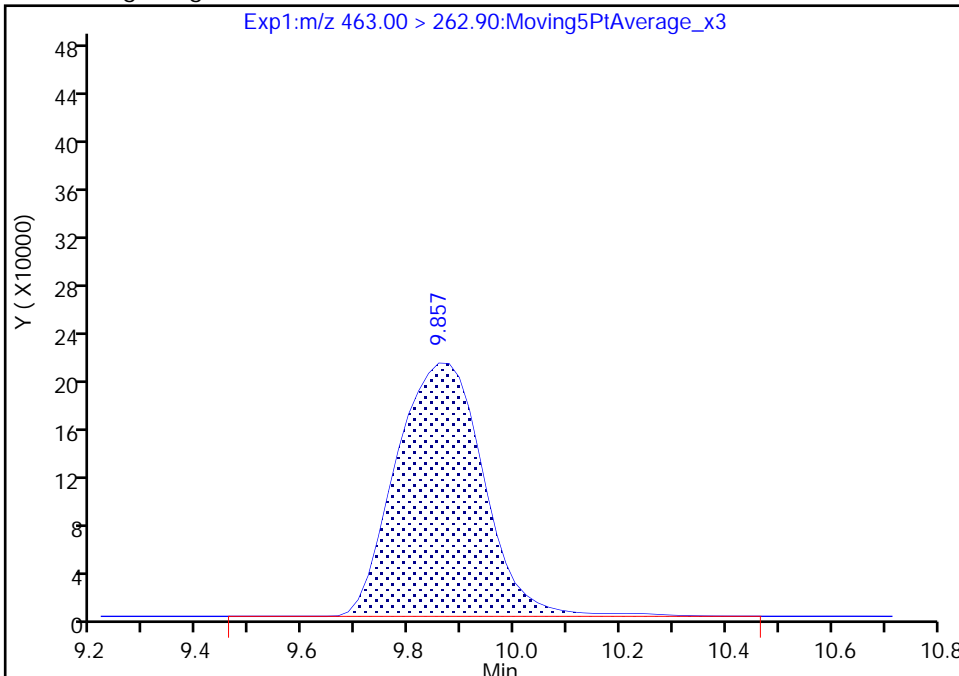
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_021.d  
Injection Date: 25-Feb-2021 17:16:04 Instrument ID: A10  
Lims ID: CCV L7 (429)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 21 Worklist Smp#: 20  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

15 Hydro-PS Acid, CAS: 749836-20-2

Signal: 1

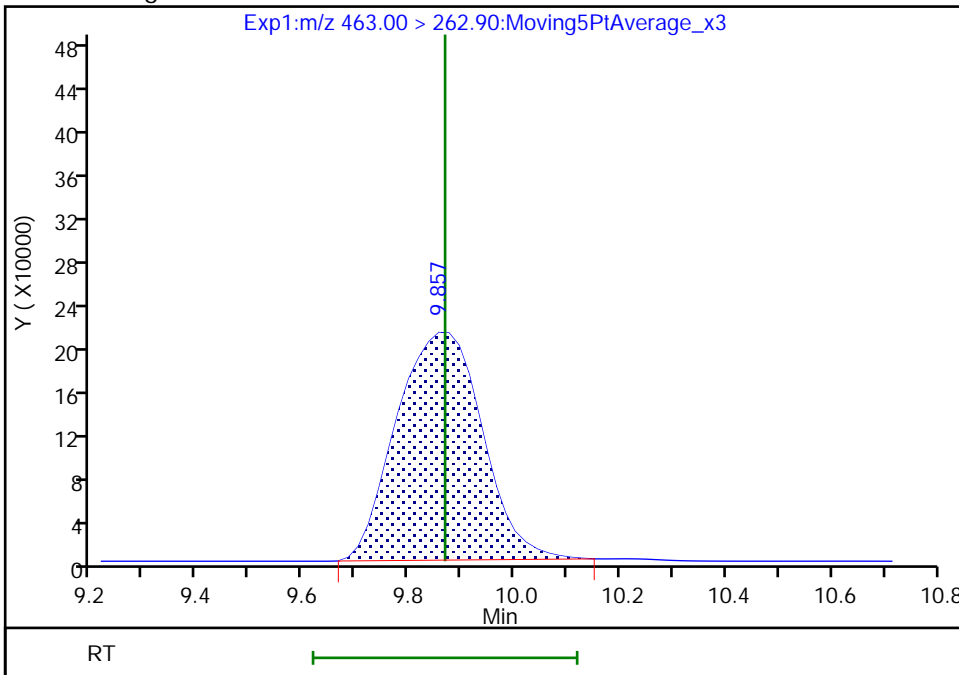
RT: 9.86  
Area: 2434454  
Amount: 0.095811  
Amount Units: ng/ml

Processing Integration Results



RT: 9.86  
Area: 2381521  
Amount: 0.093728  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 09:34:31  
Audit Action: Manually Integrated



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-464873/29 Calibration Date: 02/25/2021 19:53  
 Instrument ID: A10 Calib Start Date: 02/20/2021 10:46  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 02/20/2021 14:15  
 Lab File ID: 2021.02.25\_A10\_TB3+\_C\_030.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10012162	9008800		90.0	100	-10.0	30.0
R-EVE	Ave	4113840	3960420		96.3	100	-3.7	50.0
R-PSDA	Ave	2716137	2508360		92.4	100	-7.6	50.0
Hydrolyzed PSDA	Ave	7941832	7734620		97.4	100	-2.6	50.0
PMPA	Lin2		11818610		92.7	100	-7.3	30.0
NVHOS	Ave	7666241	6692390		87.3	100	-12.7	30.0
PFO2HxA	Ave	9391118	9775760		104	100	4.1	30.0
PEPA	Ave	5591875	5923710		106	100	5.9	30.0
PES	Ave	46961888	41845680		89.1	100	-10.9	30.0
PFECA B	Ave	6491153	6778810		104	100	4.4	30.0
PFO3OA	Ave	5993289	6314770		105	100	5.4	30.0
HFPO-DA	AveID	1.089	1.032		94.8	100	-5.2	40.0
R-PSDCA	Ave	62863071	57854470		92.0	100	-8.0	30.0
Perfluoroheptanoic acid	L2ID		1.007		95.2	100	-4.8	40.0
Hydro-EVE Acid	Ave	78962538	68241510		86.4	100	-13.6	30.0
Hydro-PS Acid	Ave	25408908	22310070		87.8	100	-12.2	30.0
PFECA G	Ave	9393669	11512650		123	100	22.6	30.0
PFO4DA	Ave	5158483	5554240		108	100	7.7	30.0
PS Acid	Ave	11430757	11544780		101	100	1.0	30.0
EVE Acid	Ave	45172088	44486990		98.5	100	-1.5	30.0
PFO5DA	Ave	3748927	3687810		98.4	100	-1.6	50.0
13C3 HFPO-DA	Ave	5532191	5408136		244	250	-2.2	50.0
13C4 PFHpA	Ave	25406808	23906096		235	250	-5.9	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
 Lims ID: CCV L7 (434)  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 25-Feb-2021 19:53:16 ALS Bottle#: 30 Worklist Smp#: 29  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L7 (434)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Sublist: chrom-A10\_PFAS\_CHEM\_TB3+\*sub1  
 Method: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 26-Feb-2021 11:18:25 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1686  
 First Level Reviewer: dadunj Date: 26-Feb-2021 11:18:25  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA	179.00 > 84.90	2.501	2.716	-0.215	900880	0.0900		90.0	93.8	M
2 R-EVE	405.00 > 217.00	6.317	6.458	-0.141	396042	0.0963		96.3	6382	M
3 R-PSDA	440.90 > 241.00	6.420	6.560	-0.140	250836	0.0924		92.4	4546	M
23 PMPA	229.00 > 185.00	6.560	6.653	-0.093	1181861	0.0927		92.7	344	M
4 Hydrolyzed PSDA	439.00 > 343.00	6.548	6.669	-0.121	773462	0.0974		97.4	11150	M
5 NVHOS	297.00 > 135.00	7.166	7.260	-0.094	669239	0.0873		87.3	8488	M
6 PFO2HxA	245.00 > 85.00	7.809	7.863	-0.054	977576	0.1041		104	10101	M
22 PEPA	278.90 > 234.90	8.490	8.521	-0.031	592371	0.1059		106	780	M
7 PES	314.90 > 135.00	8.849	8.860	-0.011	4184568	0.0891		89.1	122671	
8 PFECA B	295.00 > 201.00	9.075	9.087	-0.012	677881	0.1044		104	21673	
9 PFO3OA	310.90 > 85.00	9.321	9.321	0.0	631477	0.1054		105	11974	
D 10 13C3 HFPO-DA	287.00 > 169.00	9.414	9.432	-0.018	1352034	0.2444		97.8	53526	
11 HPFO-DA	285.00 > 169.00	9.414	9.432	-0.018	558070	0.0948	1.000	94.8	21899	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.790	9.792	-0.002		5785447	0.0920		92.0	140337	
13 Hydro-EVE Acid										
427.00 > 282.90	9.847	9.849	-0.002		6824151	0.0864		86.4	92036	
D 14 13C4 PFHpA										
367.00 > 322.00	9.828	9.849	-0.021		5976524	0.2352		94.1	147262	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.828	9.849	-0.021	1.000	2408168	0.0952	Target=0.00	95.2	18457	
363.00 > 169.00	9.828	9.849	-0.021	1.000	1043062		2.31(0.00-0.00)		32098	
15 Hydro-PS Acid										M
463.00 > 262.90	9.866	9.868	-0.002		2231007	0.0878		87.8	11579	M
17 PFECA G										
378.90 > 184.90	9.956	9.958	-0.002		1151265	0.1226		123	48364	
18 PFO4DA										
376.90 > 85.00	10.098	10.100	-0.002		555424	0.1077		108	4194	
19 PS Acid										
443.00 > 146.90	10.162	10.184	-0.022		1154478	0.1010		101	34466	
20 EVE Acid										
407.00 > 262.90	10.182	10.184	-0.002		4448699	0.0985		98.5	88003	
21 TAF										
442.90 > 85.00	10.665	10.668	-0.003		368781	0.0984		98.4	624	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD7\_00434

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d

Injection Date: 25-Feb-2021 19:53:16

Instrument ID: A10

Lims ID: CCV L7 (434)

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 30

Worklist Smp#: 29

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

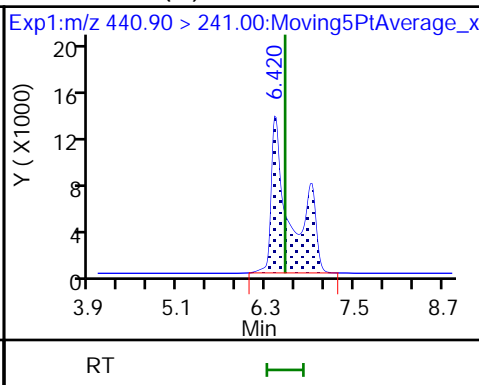
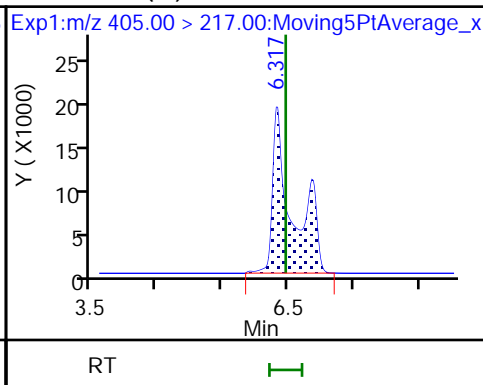
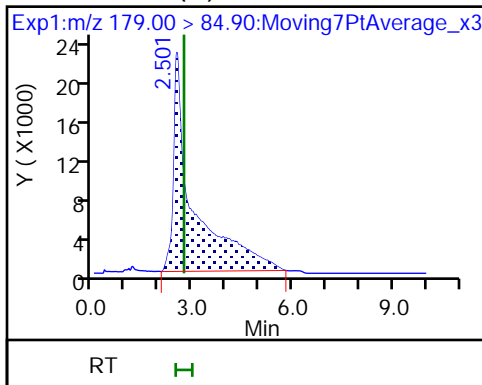
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

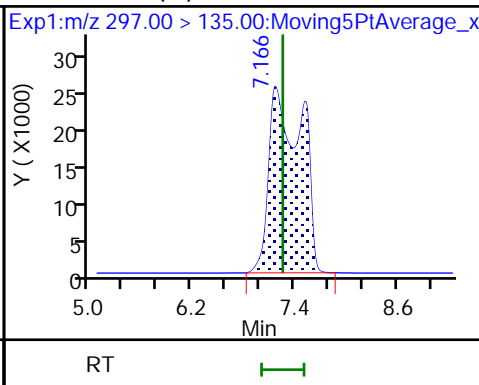
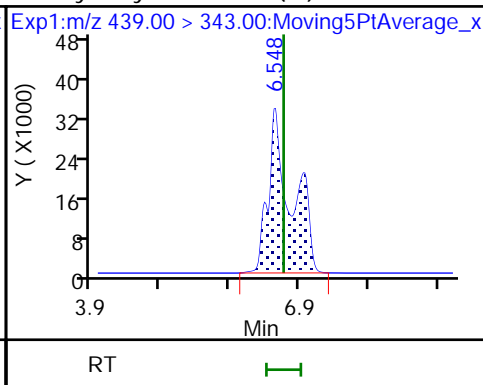
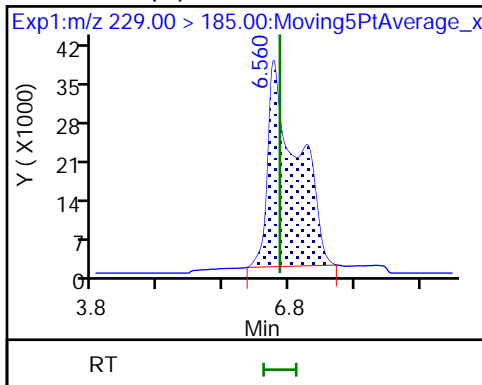
3 R-PSDA (M)



23 PMPA (M)

4 Hydrolyzed PSDA (M)

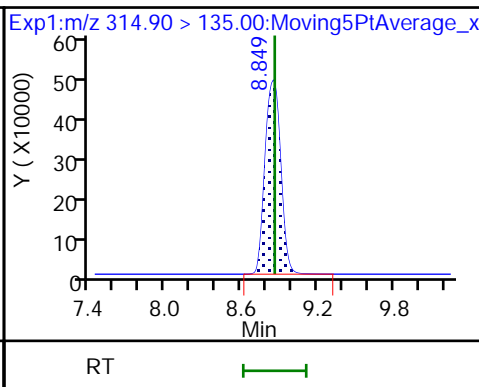
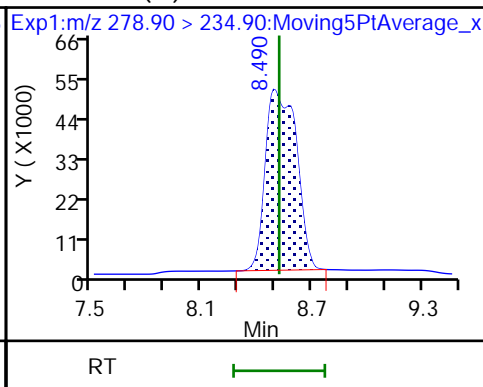
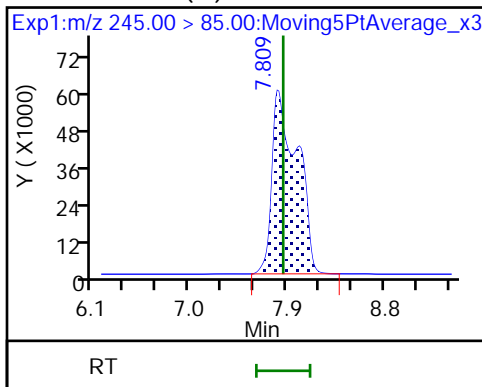
5 NVHOS (M)



6 PFO2HxA (M)

22 PEPA (M)

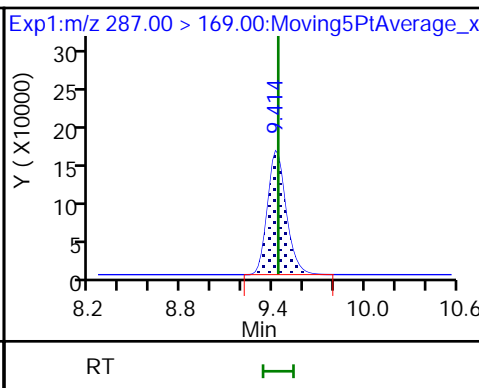
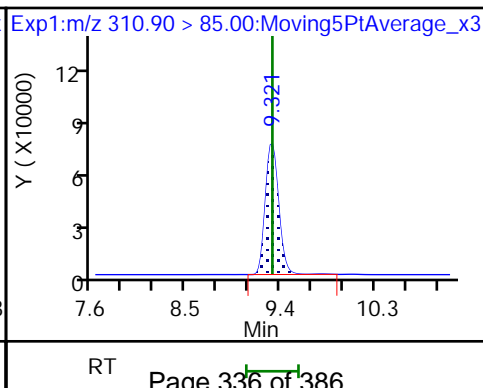
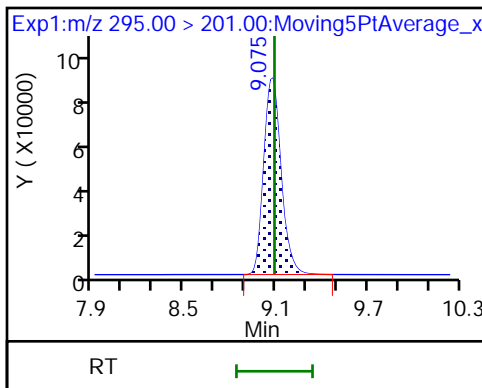
7 PES

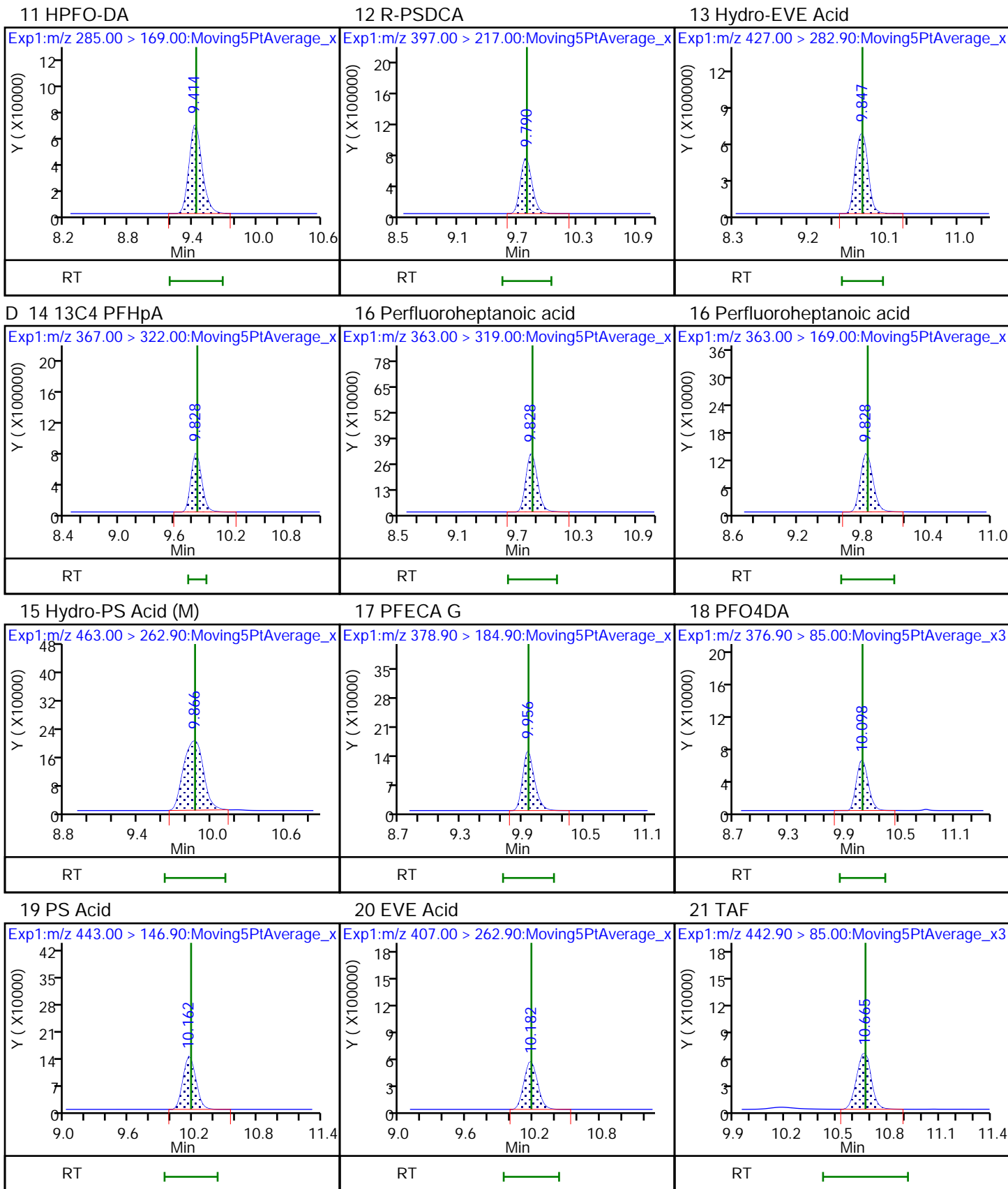


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

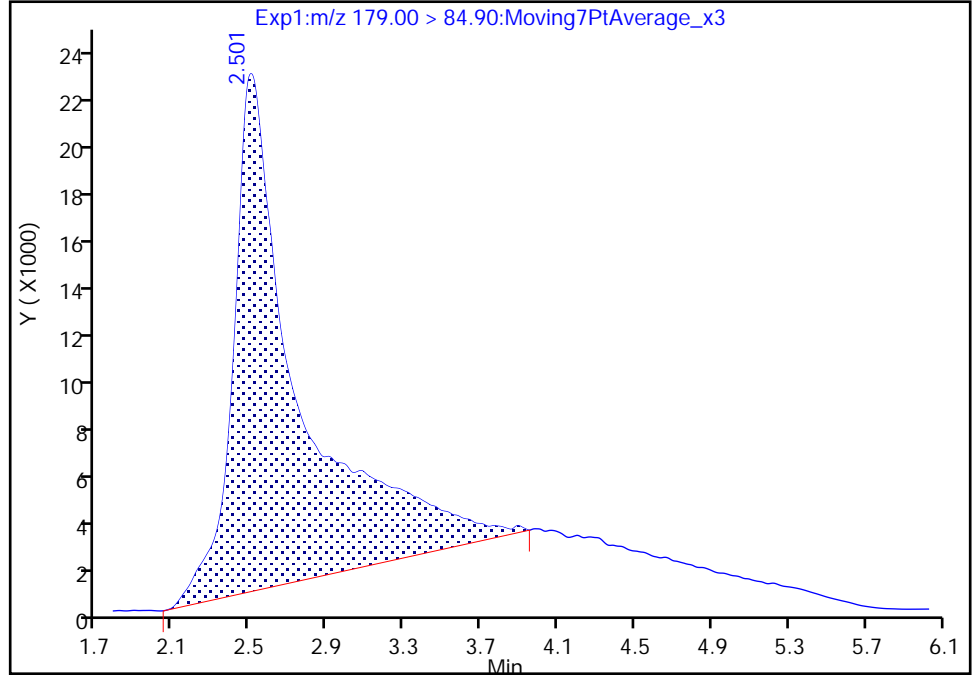
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

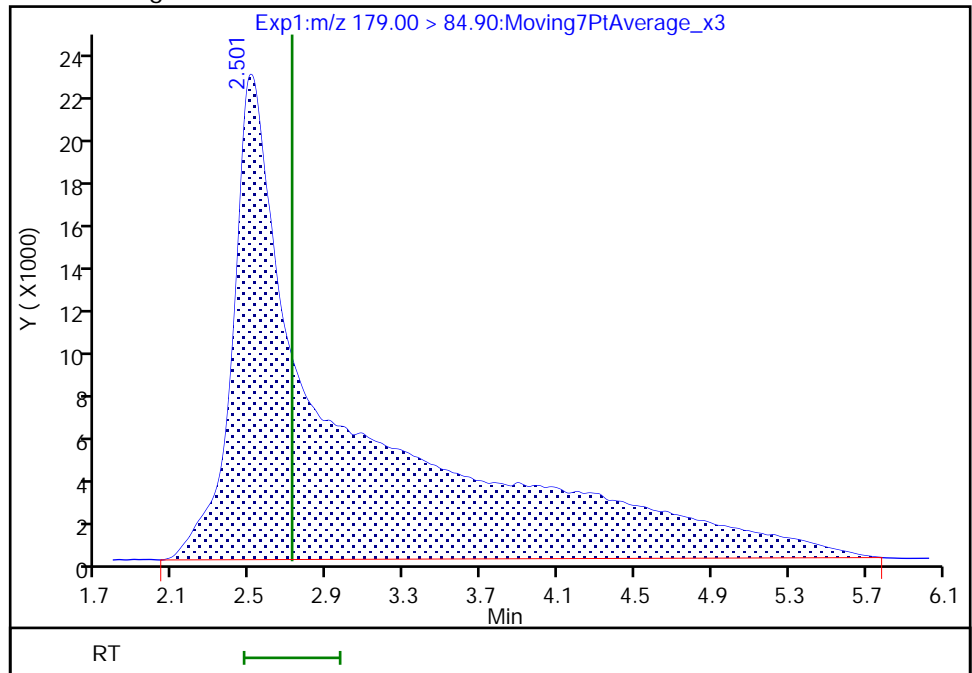
RT: 2.50  
Area: 525438  
Amount: 0.052480  
Amount Units: ng/ml

Processing Integration Results



RT: 2.50  
Area: 900880  
Amount: 0.089979  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:34  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

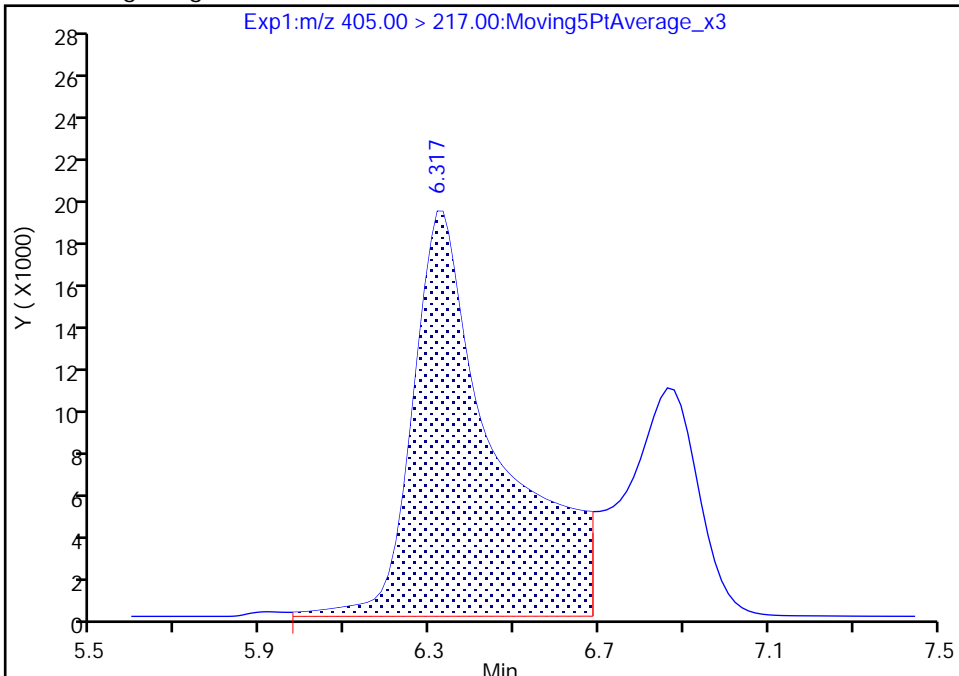
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Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

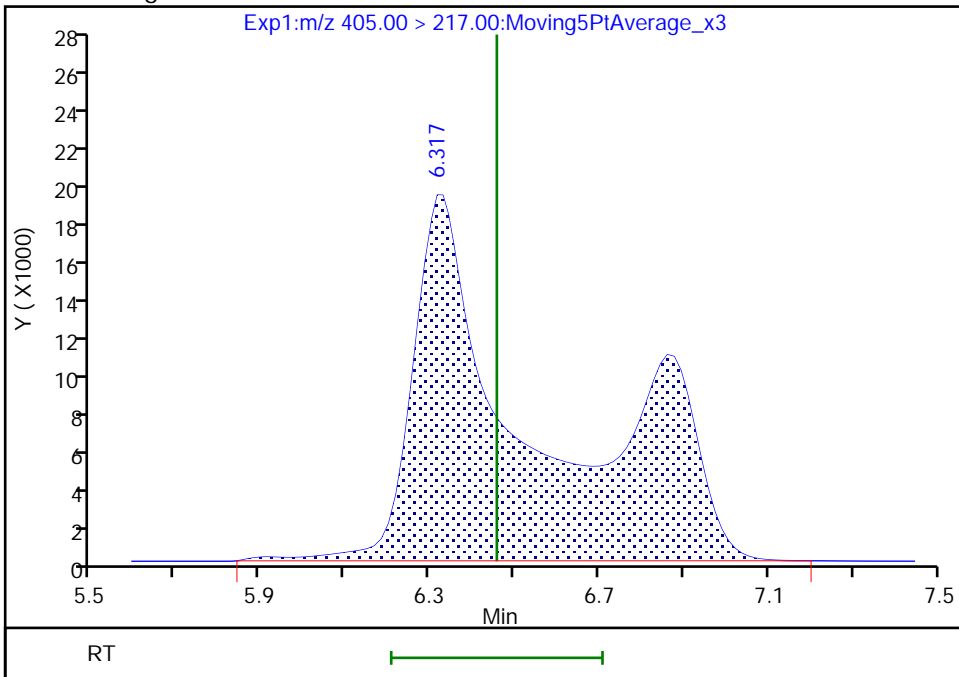
RT: 6.32  
Area: 266660  
Amount: 0.064820  
Amount Units: ng/ml

Processing Integration Results



RT: 6.32  
Area: 396042  
Amount: 0.096271  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:38  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

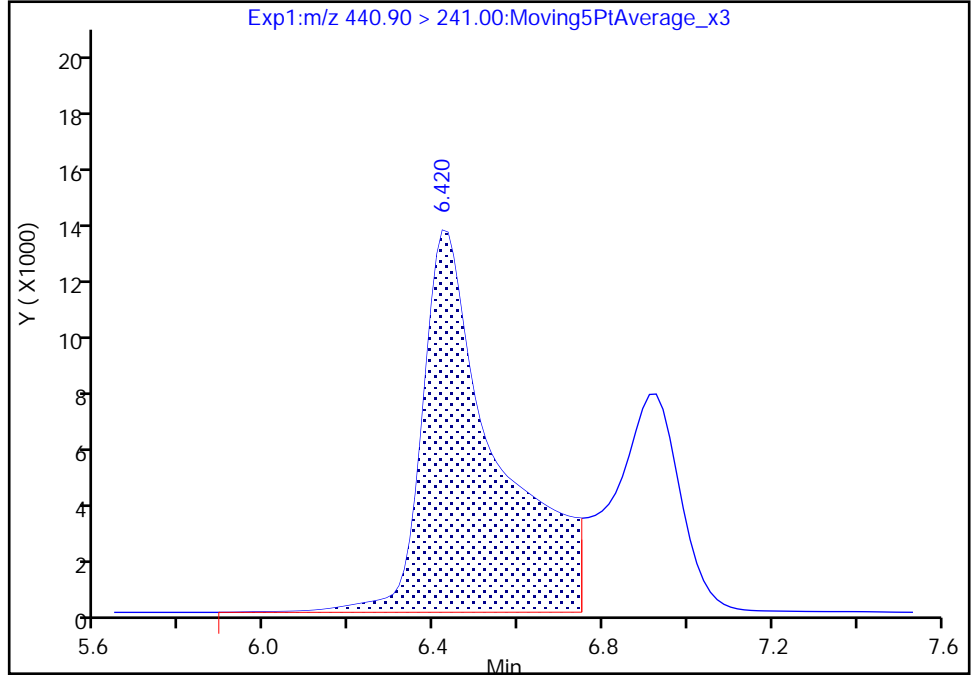
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

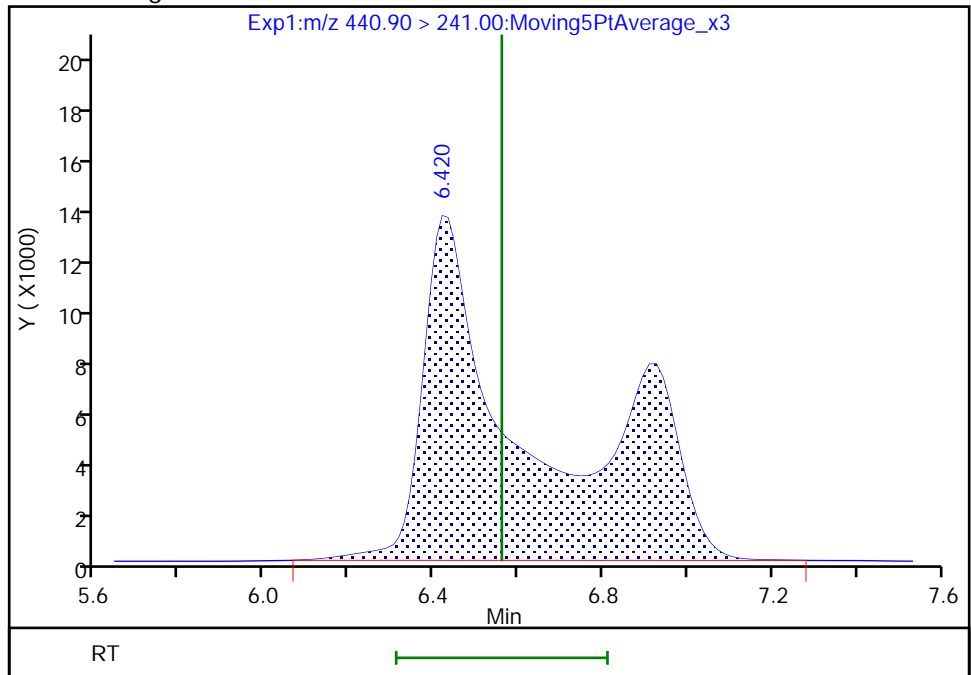
RT: 6.42  
Area: 166698  
Amount: 0.061373  
Amount Units: ng/ml

Processing Integration Results



RT: 6.42  
Area: 250836  
Amount: 0.092350  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:41  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

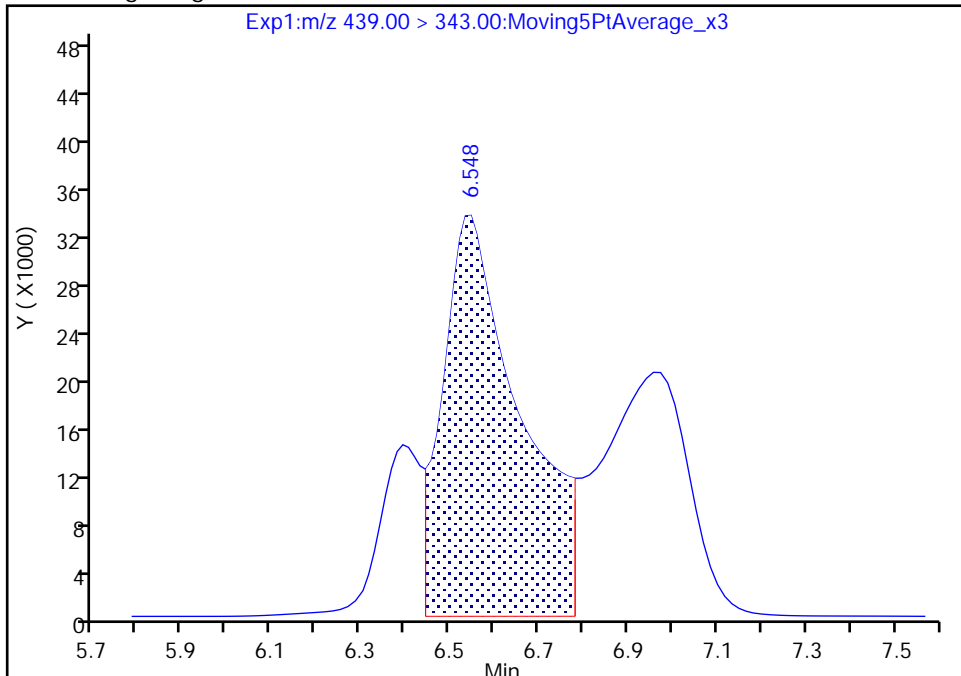
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

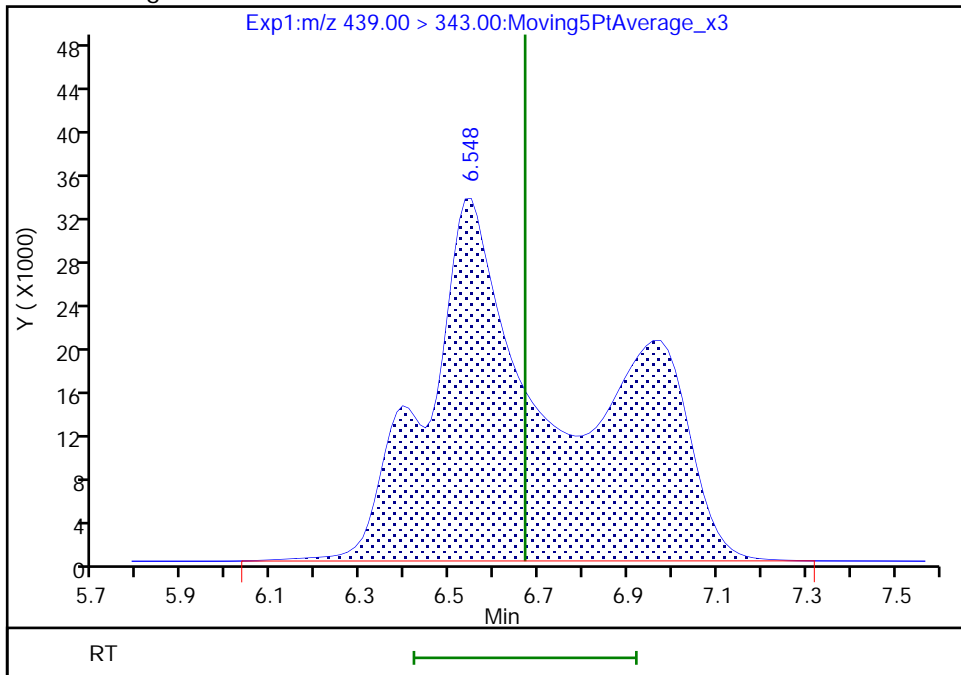
RT: 6.55  
Area: 402445  
Amount: 0.050674  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 773462  
Amount: 0.097391  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:48  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

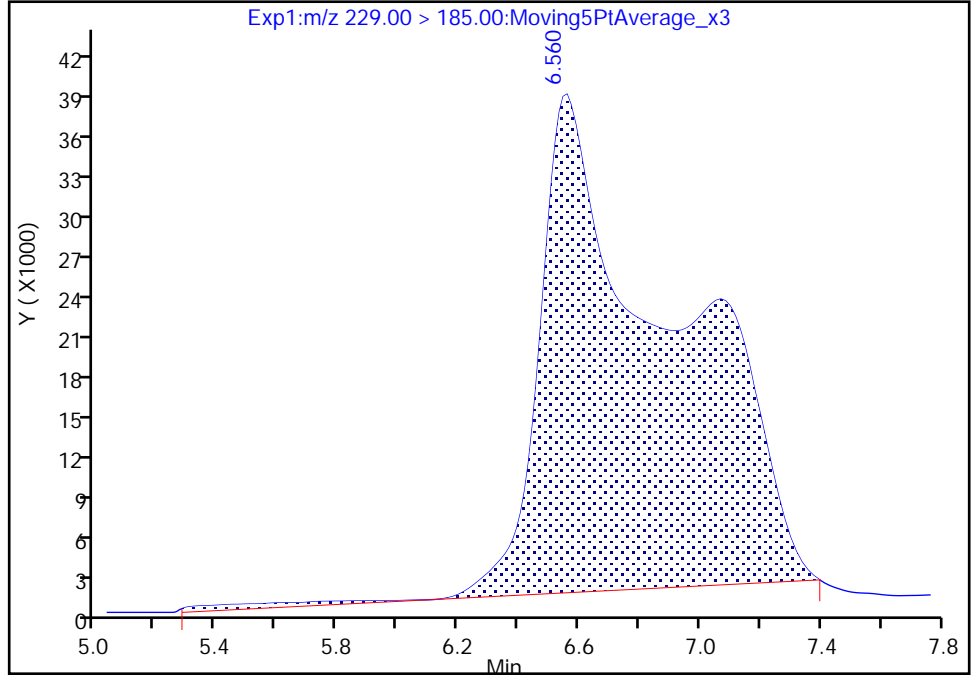
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Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

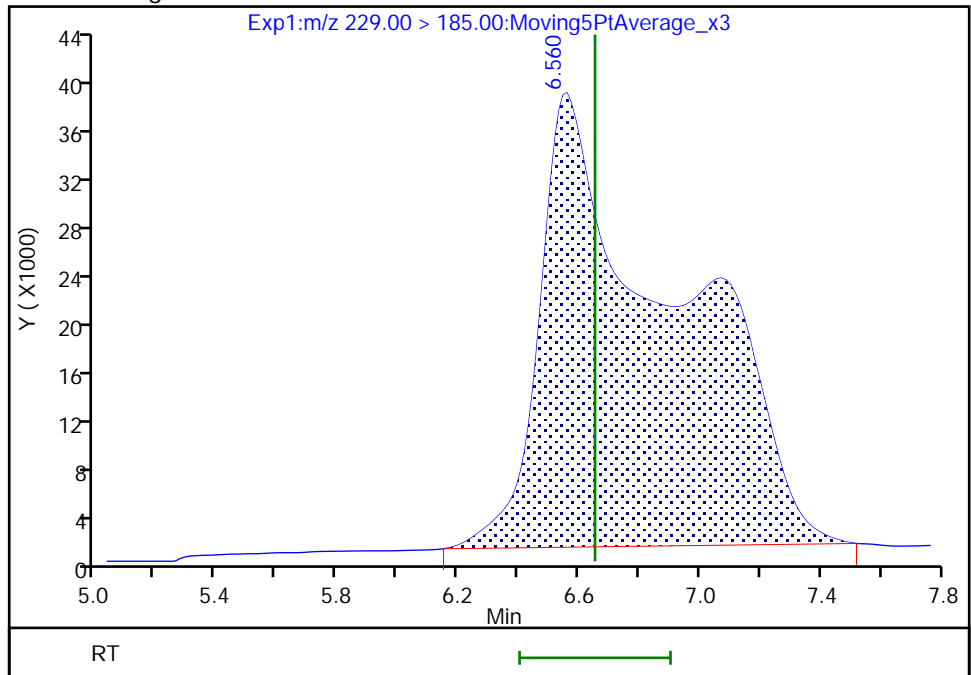
RT: 6.56  
Area: 1155361  
Amount: 0.090575  
Amount Units: ng/ml

Processing Integration Results



RT: 6.56  
Area: 1181861  
Amount: 0.092704  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

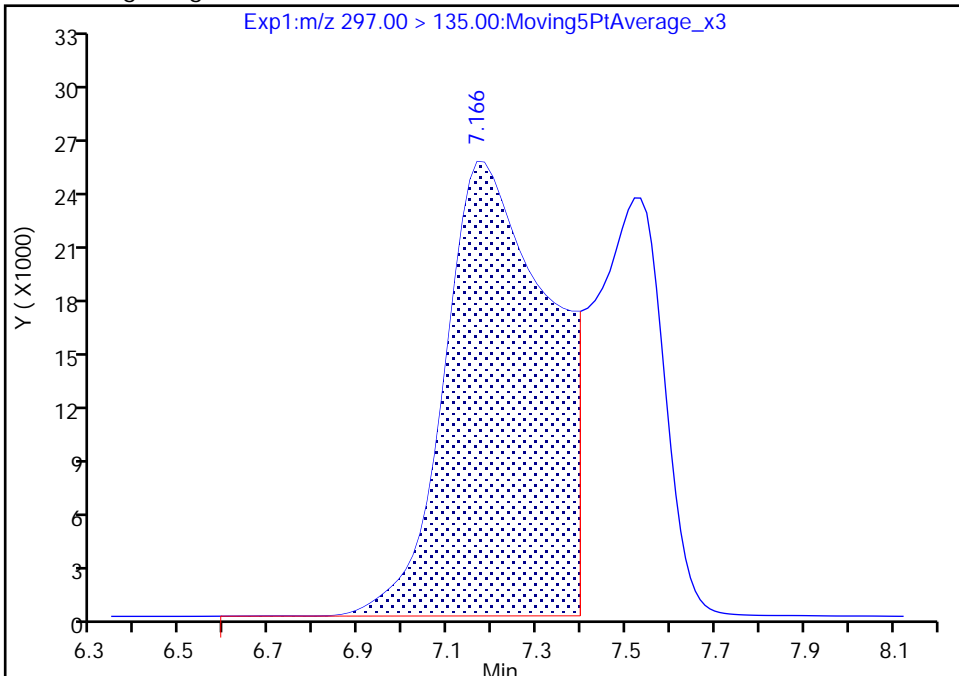
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
 Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
 Lims ID: CCV L7 (434)  
 Client ID:  
 Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

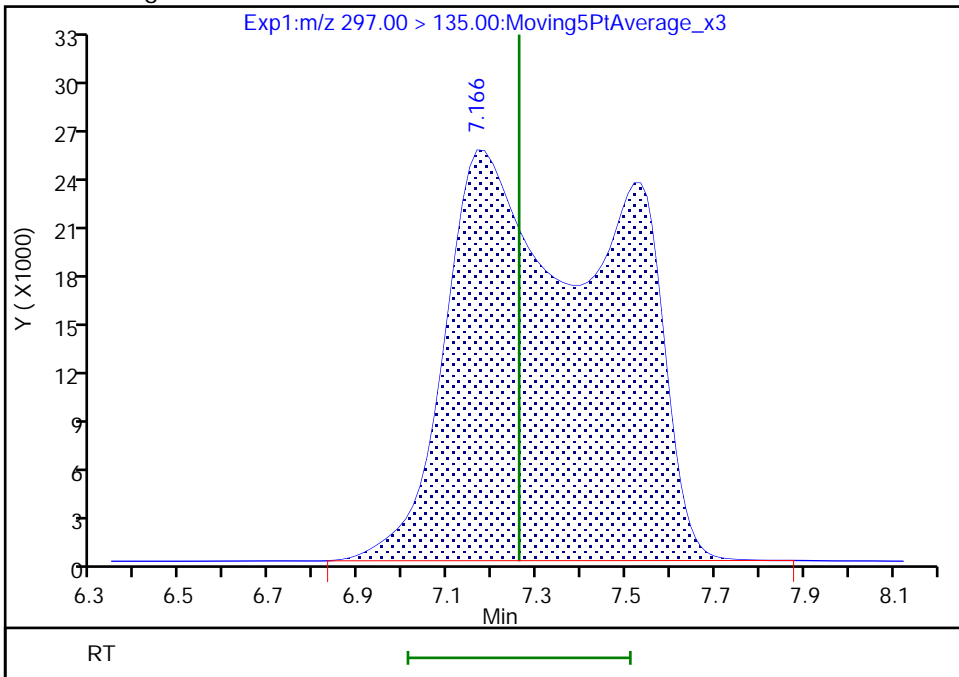
RT: 7.17  
 Area: 416678  
 Amount: 0.054352  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.17  
 Area: 669239  
 Amount: 0.087297  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:52  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

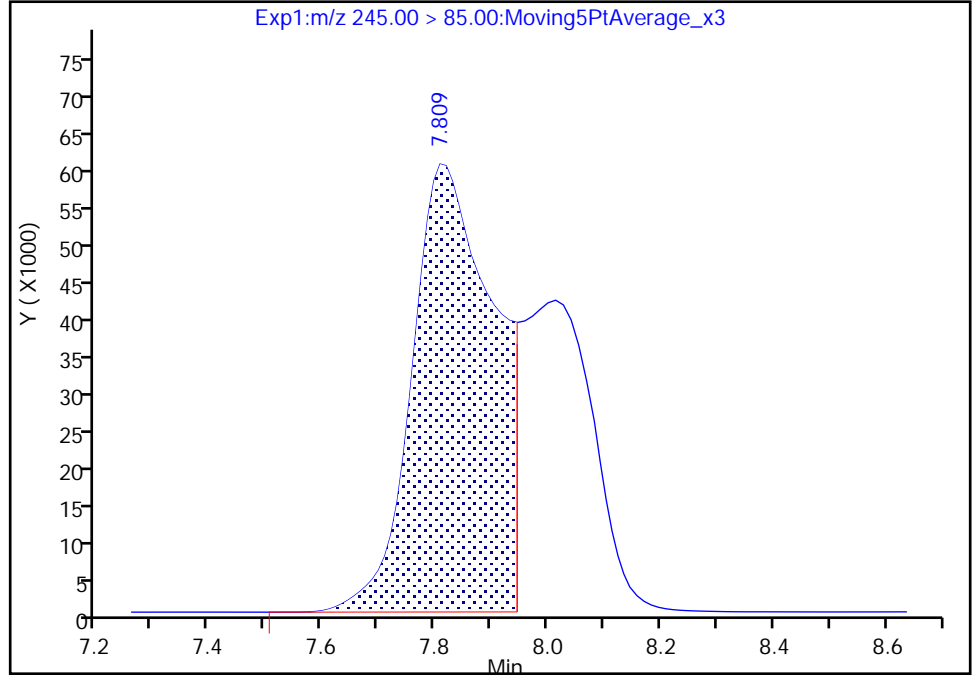
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

6 PFO2HxA, CAS: 39492-88-1

Signal: 1

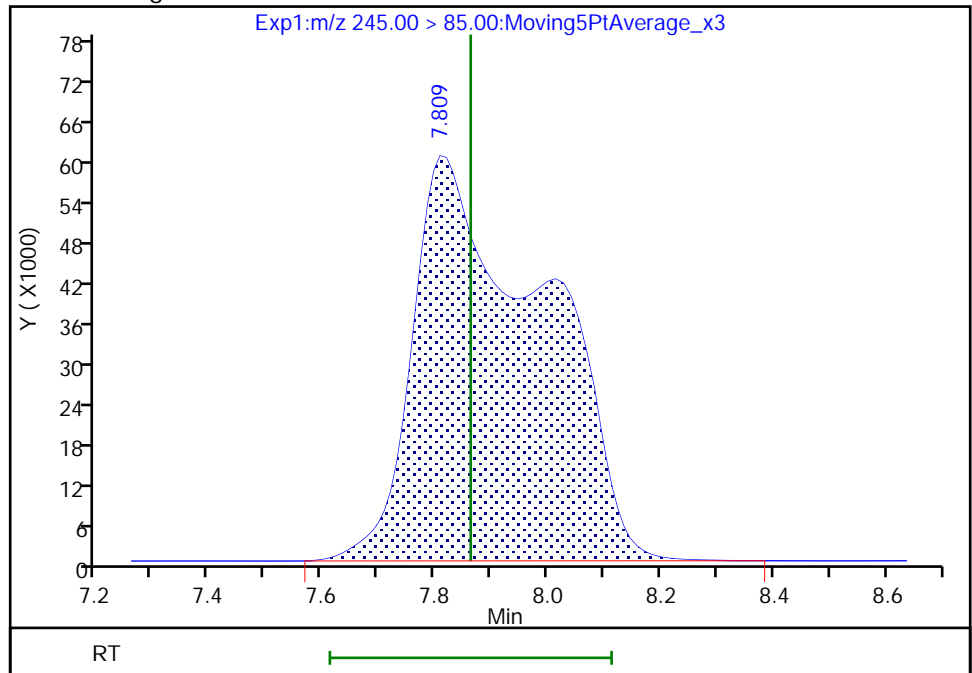
RT: 7.81  
Area: 608375  
Amount: 0.064782  
Amount Units: ng/ml

Processing Integration Results



RT: 7.81  
Area: 977576  
Amount: 0.104096  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:56  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

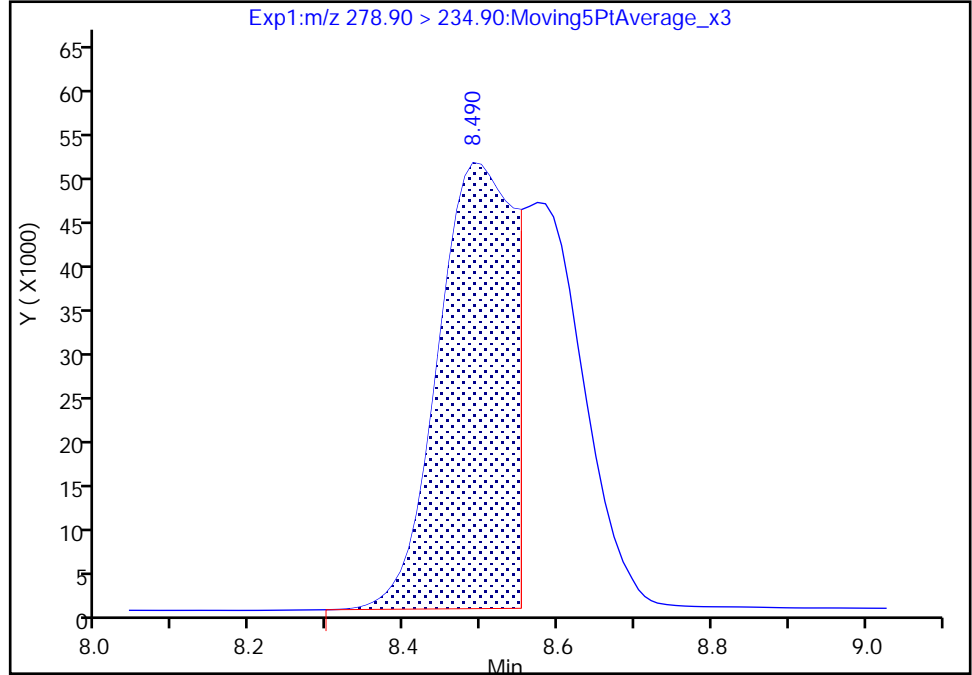
Data File: \\chromfs\Sacramento\ChromData\A10\20210224-113911.b\2021.02.25\_A10\_TB3+\_C\_030.d  
Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

22 PEPA, CAS: 267239-61-2

Signal: 1

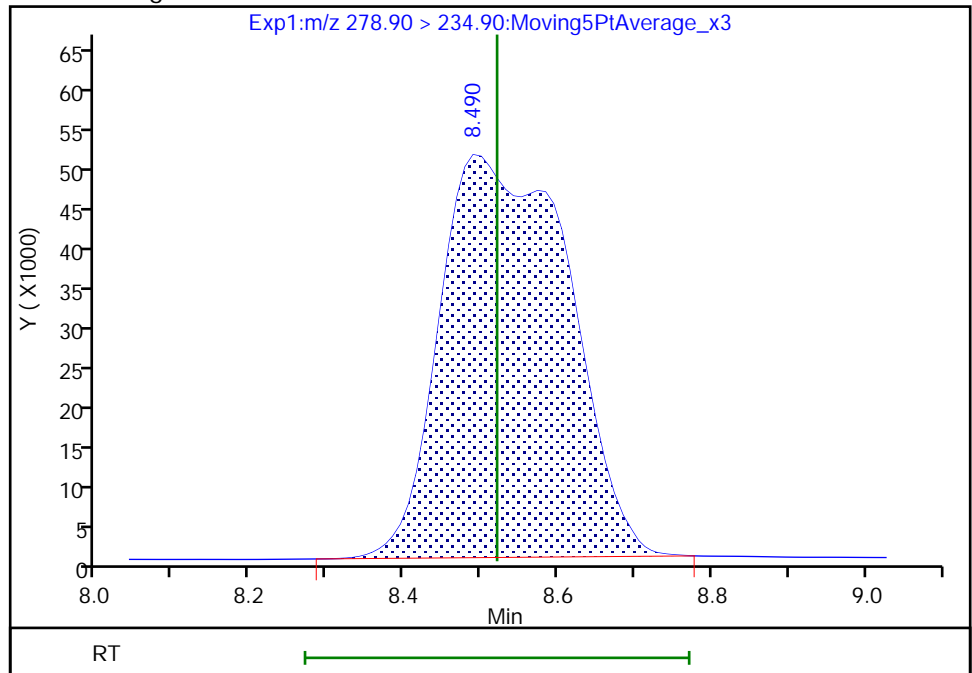
RT: 8.49  
Area: 344149  
Amount: 0.061544  
Amount Units: ng/ml

Processing Integration Results



RT: 8.49  
Area: 592371  
Amount: 0.105934  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:17:59  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

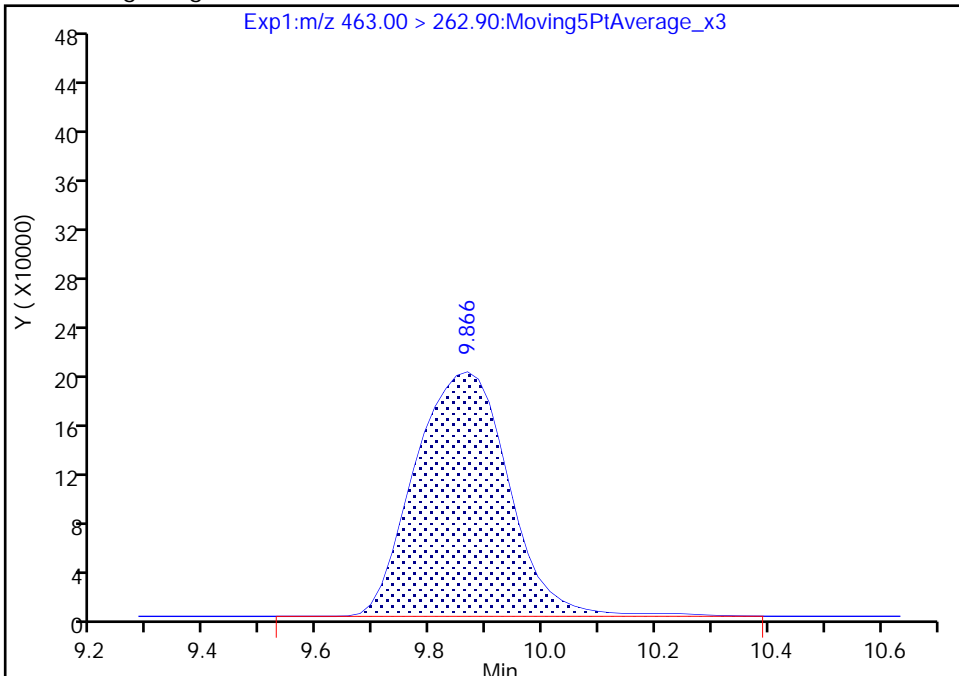
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Injection Date: 25-Feb-2021 19:53:16 Instrument ID: A10  
Lims ID: CCV L7 (434)  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 30 Worklist Smp#: 29  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

15 Hydro-PS Acid, CAS: 749836-20-2

Signal: 1

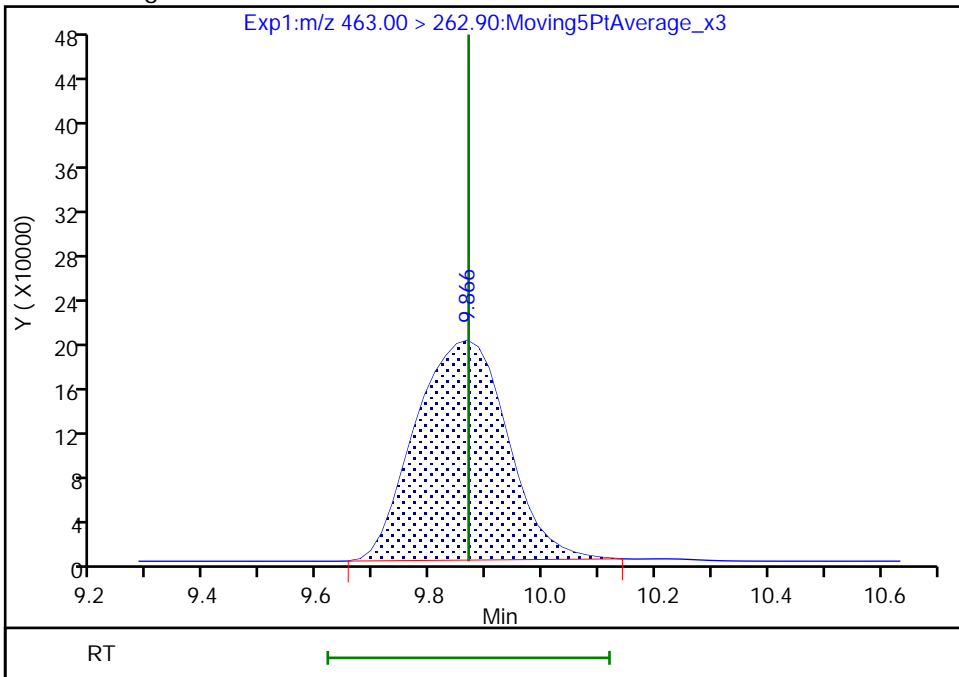
RT: 9.87  
Area: 2281756  
Amount: 0.089801  
Amount Units: ng/ml

Processing Integration Results



RT: 9.87  
Area: 2231007  
Amount: 0.087804  
Amount Units: ng/ml

Manual Integration Results



Reviewer: dadunj, 26-Feb-2021 11:18:15  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-464016/1-A  
 Matrix: Water Lab File ID: 2021.02.23\_A10\_TB3+\_B\_016.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/22/2021 11:39  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 02/24/2021 03:51  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 464205 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	100		25-150



Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_016.d  
 Lims ID: MB 320-464016/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 24-Feb-2021 03:51:46 ALS Bottle#: 16 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-464016/1-a TB3+W DUE 3/12  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:39:55 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: vangmy Date: 24-Feb-2021 09:22:22  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 13C3 HFPO-DA	287.00 > 169.00	9.432	9.432	0.0	1385478	0.2504		100	55641	
D 14 13C4 PFHpA	367.00 > 322.00	9.848	9.849	-0.001	6568710	0.2585		103	135975	
16 Perfluoroheptanoic acid	363.00 > 319.00	9.867	9.849	0.018	25352	0.000479	Target=0.00		212	
	363.00 > 169.00	9.867	9.849	0.018	10723		2.36(0.00-0.00)		339	

QC Flag Legend  
 Processing Flags

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_016.d

Injection Date: 24-Feb-2021 03:51:46

Instrument ID: A10

Lims ID: MB 320-464016/1-A

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 16

Worklist Smp#: 3

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

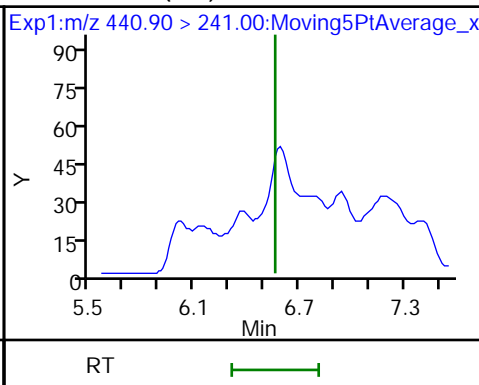
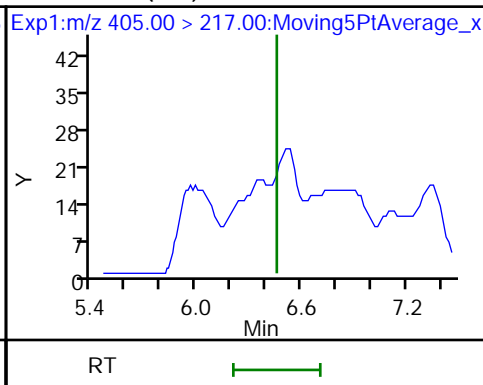
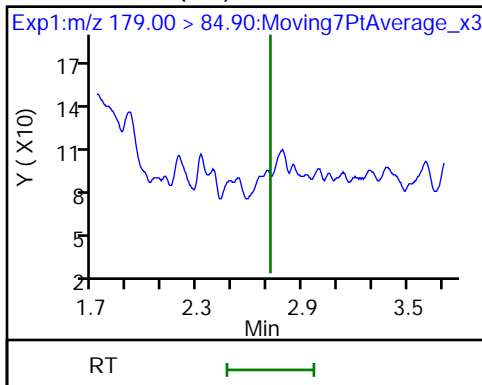
Method: A10\_PFA5\_CHEM\_TB3+

Limit Group: LC PFA5\_TB3P - ICAL

1 PFM0AA (ND)

2 R-EVE (ND)

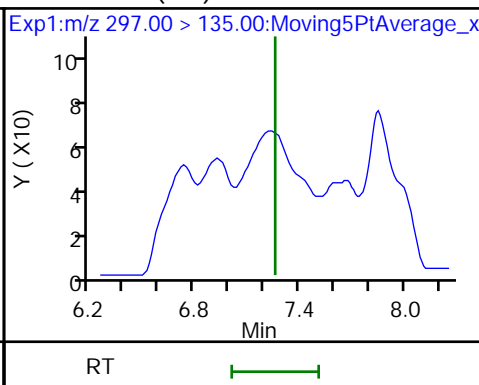
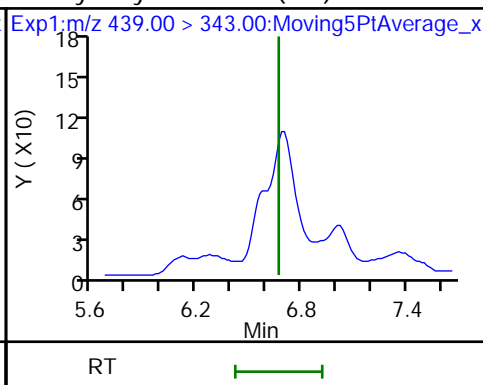
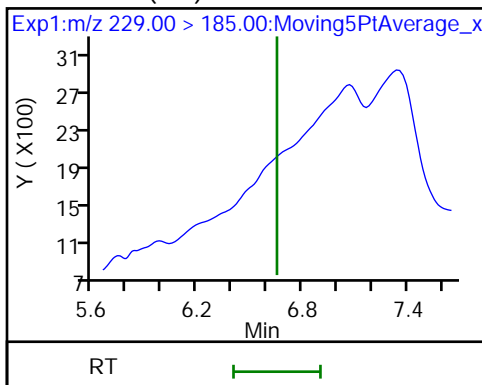
3 R-PSDA (ND)



23 PMPA (ND)

4 Hydrolyzed PSDA (ND)

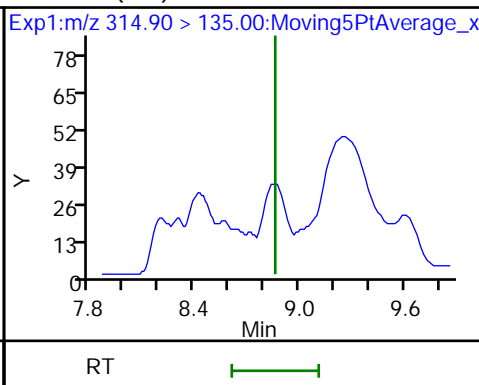
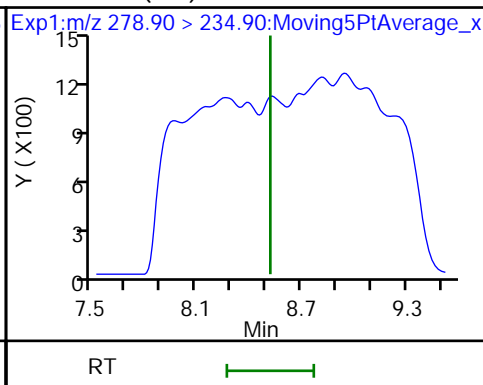
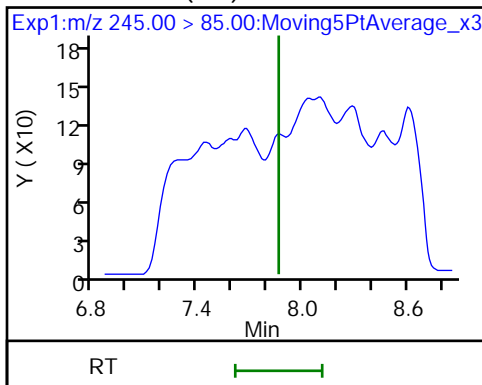
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

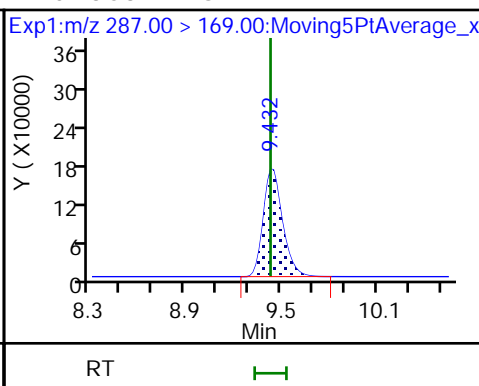
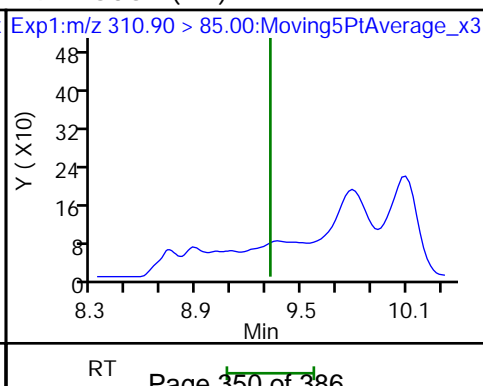
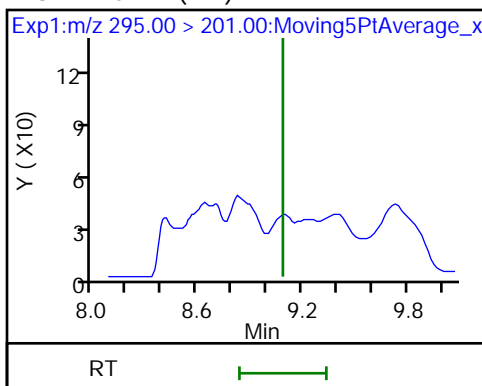
7 PES (ND)

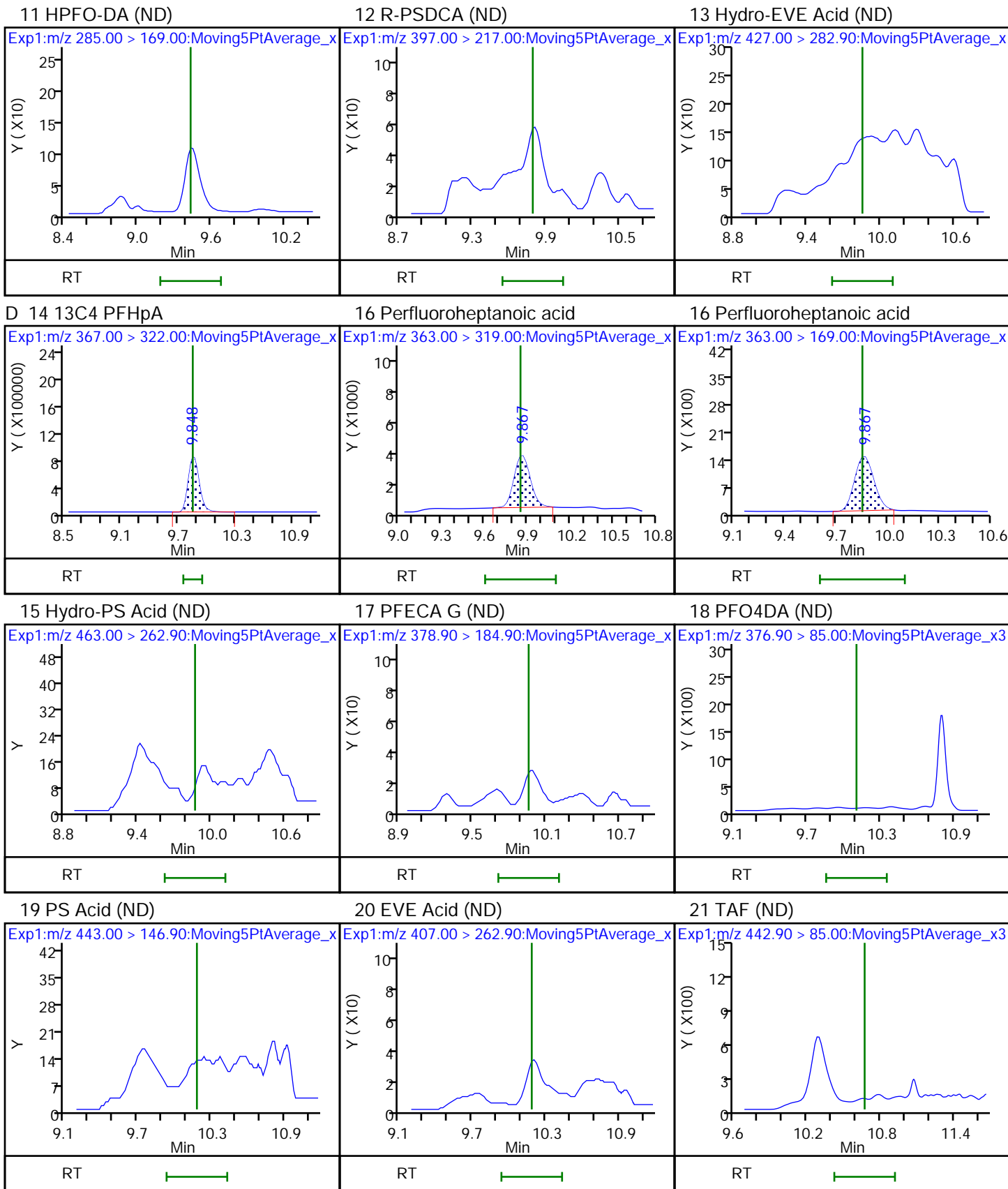


8 PFECA B (ND)

9 PFO3OA (ND)

D 10 13C3 HFPO-DA







FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-464016/2-A  
 Matrix: Water Lab File ID: 2021.02.23\_A10\_TB3+\_B\_024.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/22/2021 11:40  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 02/24/2021 06:11  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 464205 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.208		0.0020	
13252-13-6	HFPO-DA	0.221		0.0020	
773804-62-9	Hydro-EVE Acid	0.208		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.244		0.0020	
749836-20-2	Hydro-PS Acid	0.199		0.0020	
1132933-86-8	NVHOS	0.193		0.0020	
267239-61-2	PEPA	0.231		0.020	
113507-82-7	PES	0.201		0.0020	
151772-58-6	PFECA B	0.211		0.0020	
801212-59-9	PFECA G	0.237		0.0020	
674-13-5	PFMOAA	0.171		0.0020	
39492-88-1	PFO2HxA	0.205		0.0020	
39492-89-2	PFO3OA	0.192		0.0020	
39492-90-5	PFO4DA	0.213		0.0020	
39492-91-6	PFO5DA	0.165		0.0020	
13140-29-9	PMPA	0.199		0.010	
29311-67-9	PS Acid	0.206		0.0020	
2416366-22-6	R-EVE	0.216		0.0020	
2416366-18-0	R-PSDA	0.221		0.0020	
2416366-21-5	R-PSDCA	0.211		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	92		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_024.d  
 Lims ID: LCS 320-464016/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 24-Feb-2021 06:11:27 ALS Bottle#: 24 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-464016/2-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:44:51 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: vangmy Date: 24-Feb-2021 09:23:45  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.750	2.716	0.034		855976	0.0855		85.5	69.5	M
2 R-EVE										M
405.00 > 217.00	6.484	6.458	0.026		444997	0.1082		108	10794	M
3 R-PSDA										
440.90 > 241.00	6.573	6.560	0.013		300486	0.1106		111	7183	
23 PMPA										M
229.00 > 185.00	6.669	6.653	0.016		1268792	0.0997		99.7	492	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.686	6.669	0.017		968637	0.1220		122	17728	M
5 NVHOS										M
297.00 > 135.00	7.261	7.260	0.001		741524	0.0967		96.7	13030	M
6 PFO2HxA										
245.00 > 85.00	7.853	7.863	-0.010		960383	0.1023		102	8762	
22 PEPA										
278.90 > 234.90	8.521	8.521	0.0		645584	0.1155		115	1050	
7 PES										
314.90 > 135.00	8.849	8.860	-0.011		4720901	0.1005		101	159845	
8 PFECA B										
295.00 > 201.00	9.076	9.087	-0.011		683644	0.1053		105	24147	
9 PFO3OA										
310.90 > 85.00	9.322	9.321	0.001		574591	0.0959		95.9	13581	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1272972	0.2301		92.0	51647	
11 HPFO-DA										
285.00 > 169.00	9.432	9.432	0.0	1.000	613792	0.1107		111	24939	
12 R-PSDCA										
397.00 > 217.00	9.791	9.792	-0.001		663142	0.1056		106	165332	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.848	9.849	-0.001		8200333	0.1039		104	129884	
D 14 13C4 PFHpA										
367.00 > 322.00	9.848	9.849	-0.001		6077779	0.2392		95.7	126517	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.848	9.849	-0.001	1.000	2785463	0.1084	Target=0.00	108	24898	
363.00 > 169.00	9.848	9.849	-0.001	1.000	1190813		2.34(0.00-0.00)		29899	
15 Hydro-PS Acid										
463.00 > 262.90	9.867	9.868	-0.001		2525293	0.0994		99.4	72682	
17 PFECA G										
378.90 > 184.90	9.957	9.958	-0.001		1112316	0.1184		118	46364	
18 PFO4DA										
376.90 > 85.00	10.099	10.100	-0.001		549606	0.1065		107	3306	
19 PS Acid										
443.00 > 146.90	10.182	10.184	-0.002		1174638	0.1028		103	35293	
20 EVE Acid										
407.00 > 262.90	10.182	10.184	-0.002		4699304	0.1040		104	94542	
21 TAF										
442.90 > 85.00	10.666	10.668	-0.002		309947	0.0827		82.7	594	

**QC Flag Legend**

Processing Flags

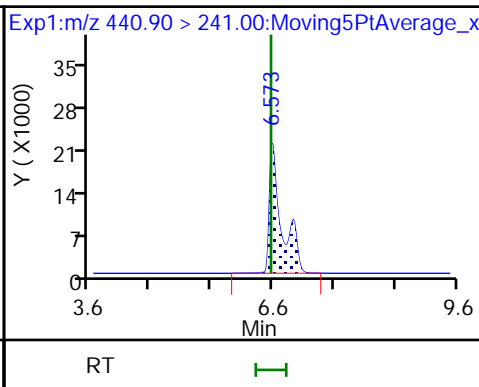
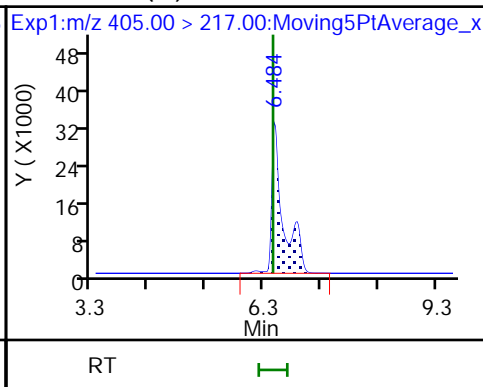
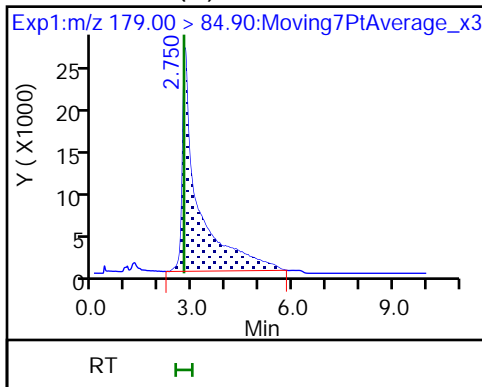
Review Flags

M - Manually Integrated

1 PFM0AA (M)

2 R-EVE (M)

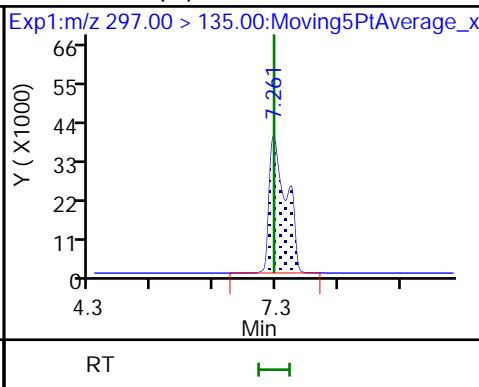
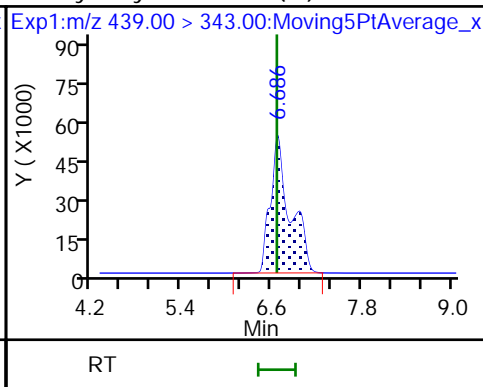
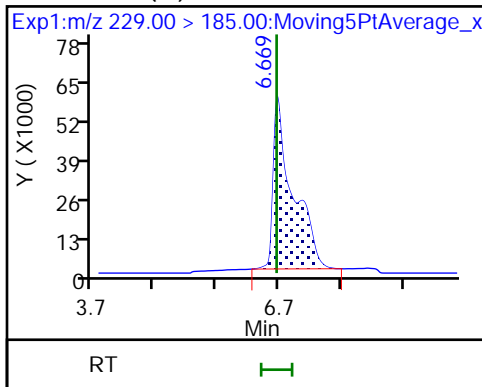
3 R-PSDA



23 PMPA (M)

4 Hydrolyzed PSDA (M)

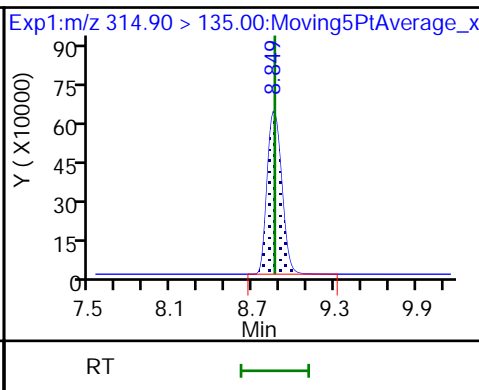
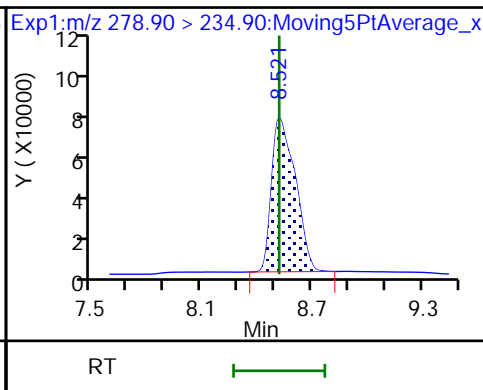
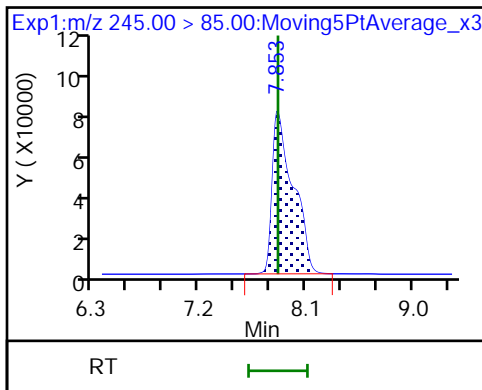
5 NVHOS (M)



6 PFO2HxA

22 PEPA

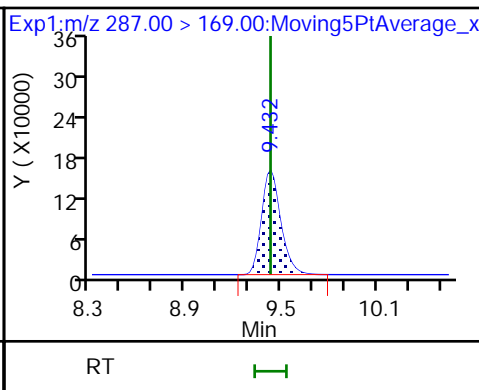
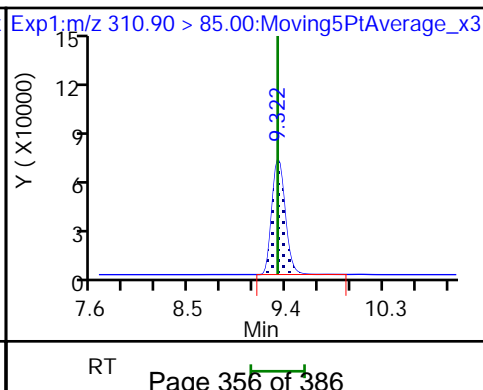
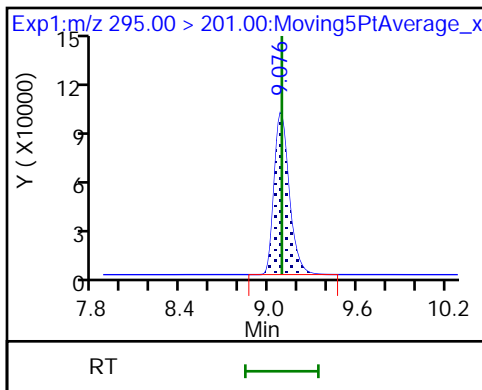
7 PES



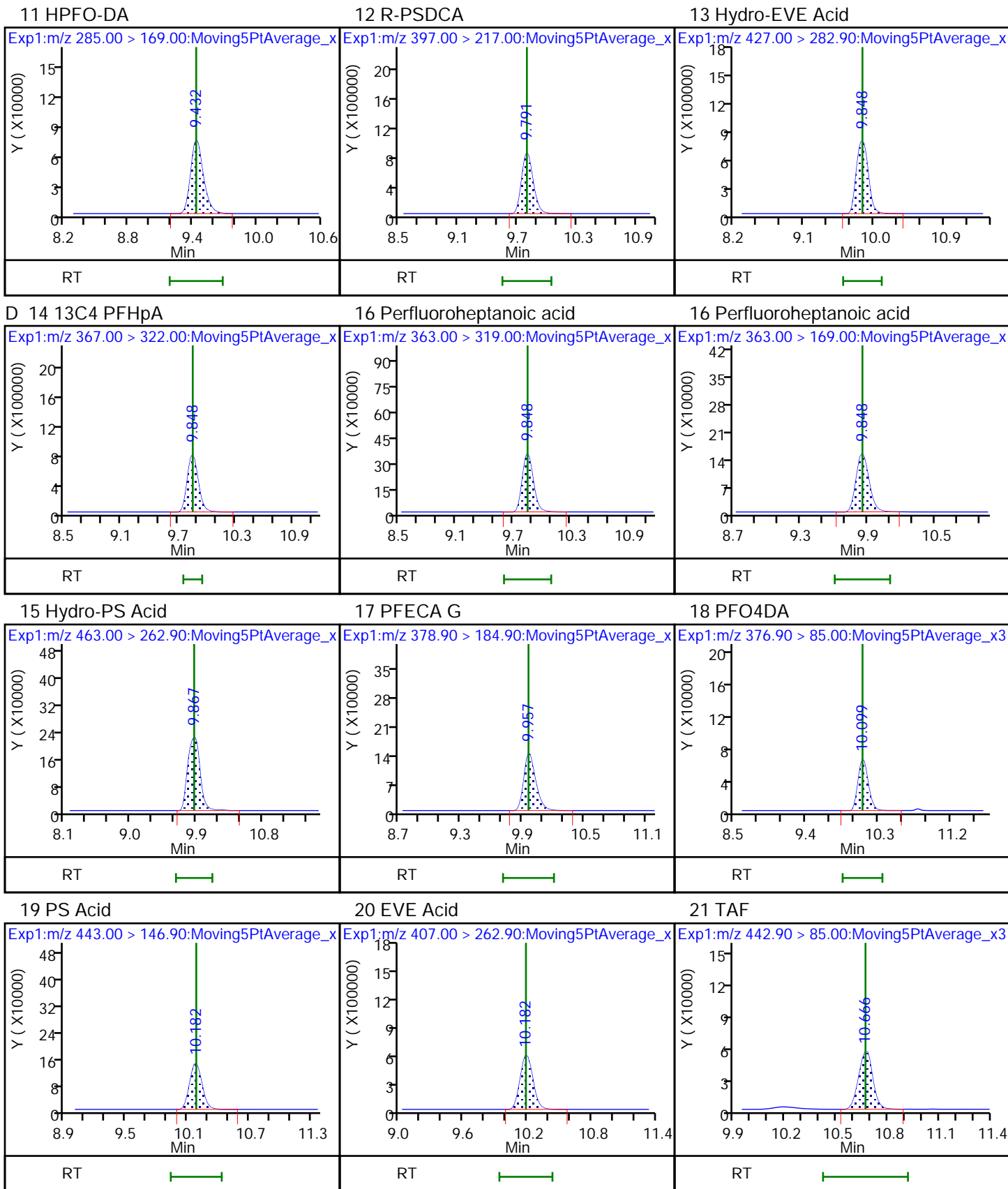
8 PFECAB

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

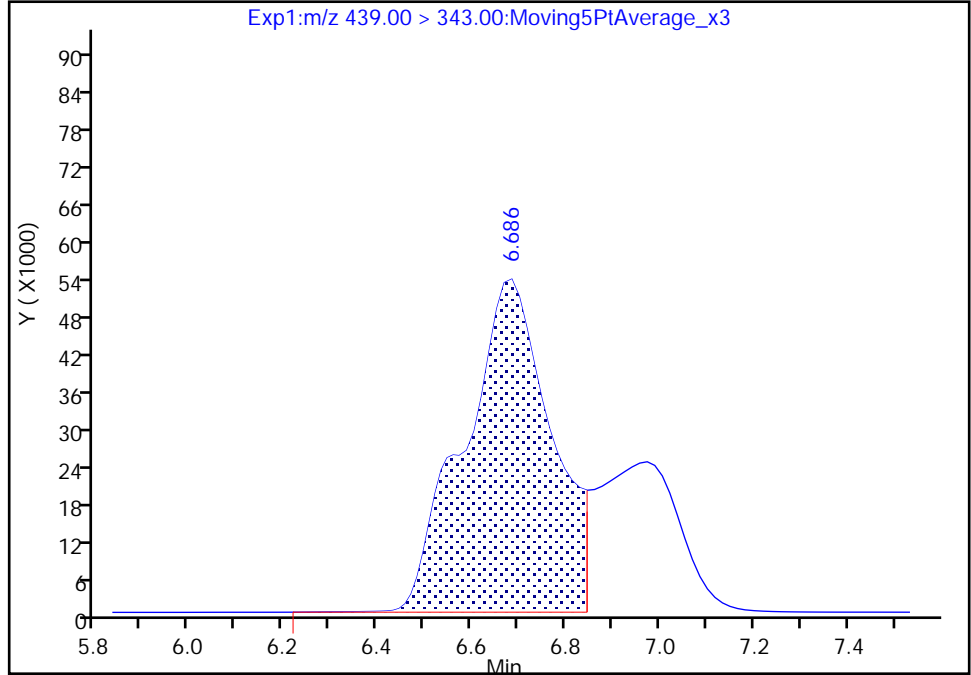
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Injection Date: 24-Feb-2021 06:11:27 Instrument ID: A10  
Lims ID: LCS 320-464016/2-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 24 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

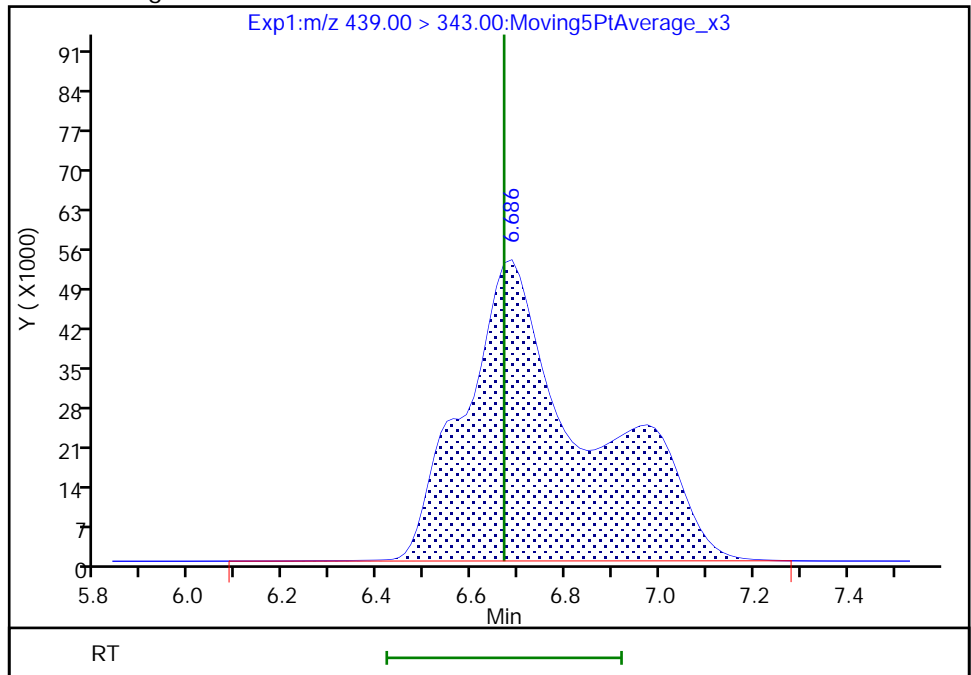
RT: 6.69  
Area: 680313  
Amount: 0.085662  
Amount Units: ng/ml

Processing Integration Results



RT: 6.69  
Area: 968637  
Amount: 0.121966  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:28  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

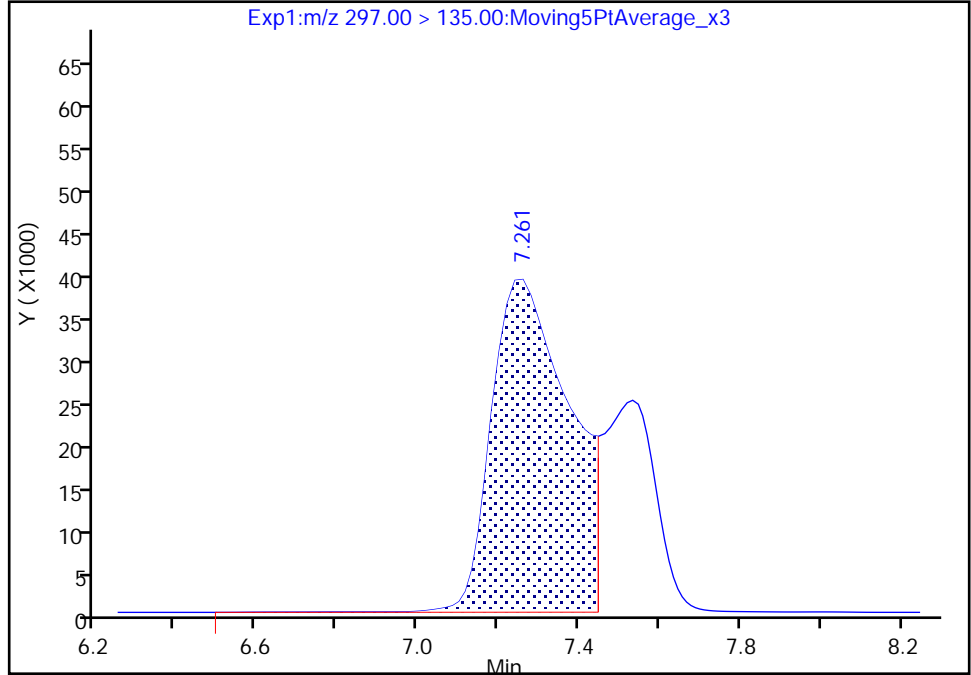
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Injection Date: 24-Feb-2021 06:11:27 Instrument ID: A10  
Lims ID: LCS 320-464016/2-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 24 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

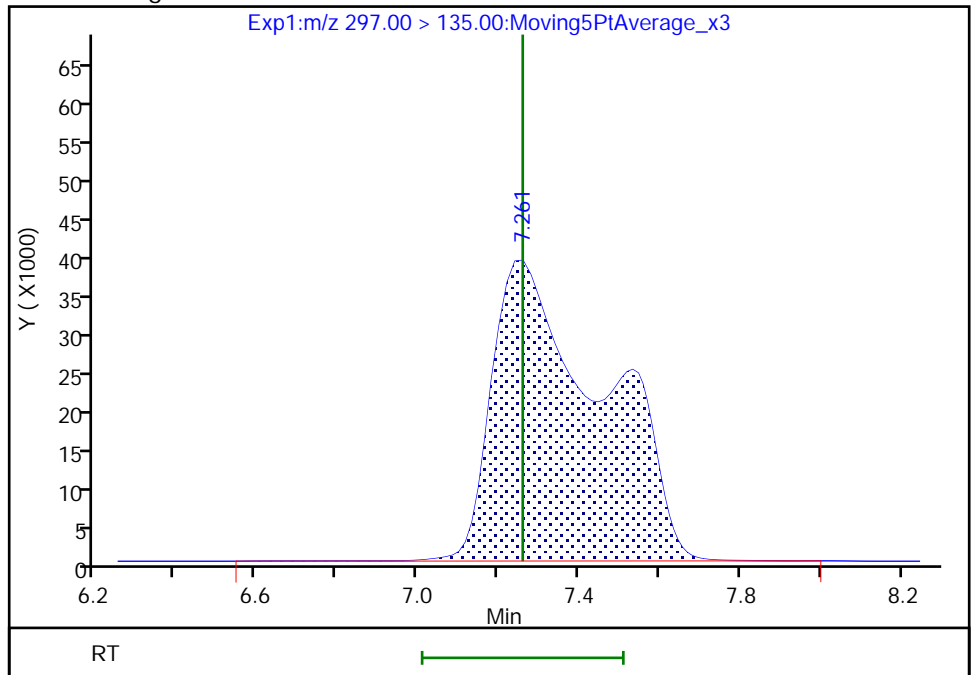
RT: 7.26  
Area: 521832  
Amount: 0.068069  
Amount Units: ng/ml

Processing Integration Results



RT: 7.26  
Area: 741524  
Amount: 0.096726  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:31  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

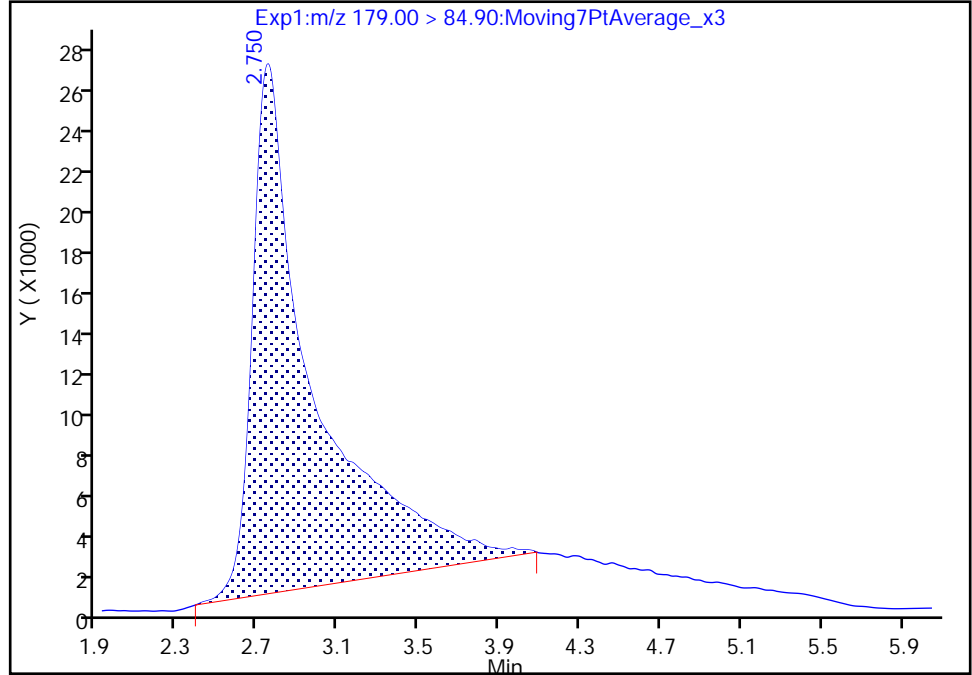
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_024.d  
Injection Date: 24-Feb-2021 06:11:27 Instrument ID: A10  
Lims ID: LCS 320-464016/2-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 24 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

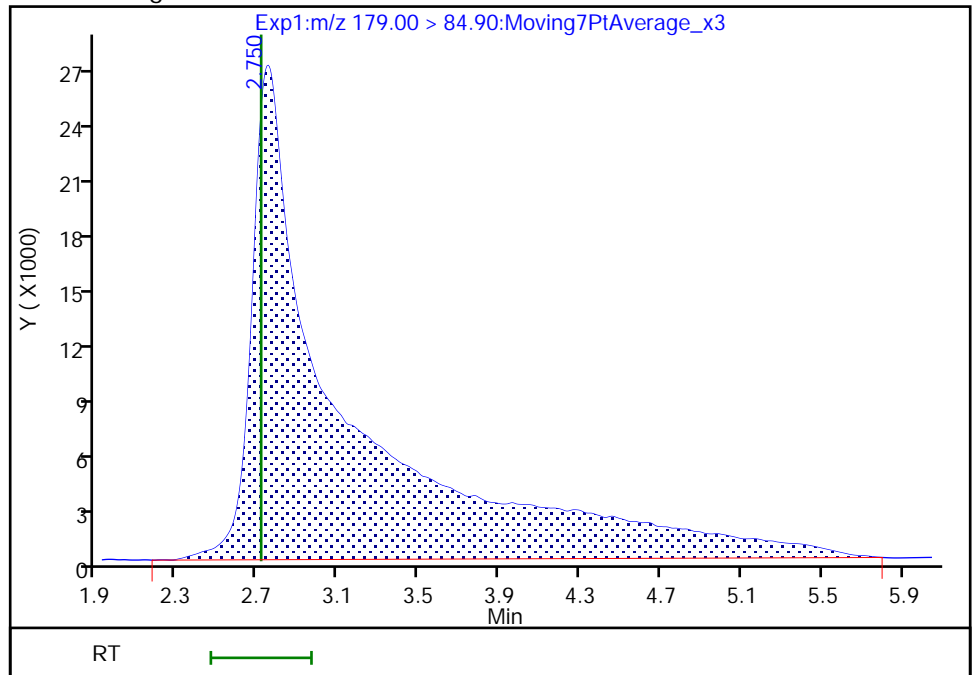
RT: 2.75  
Area: 555696  
Amount: 0.055502  
Amount Units: ng/ml

Processing Integration Results



RT: 2.75  
Area: 855976  
Amount: 0.085494  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:17  
Audit Action: Manually Integrated

Euofins TestAmerica, Sacramento

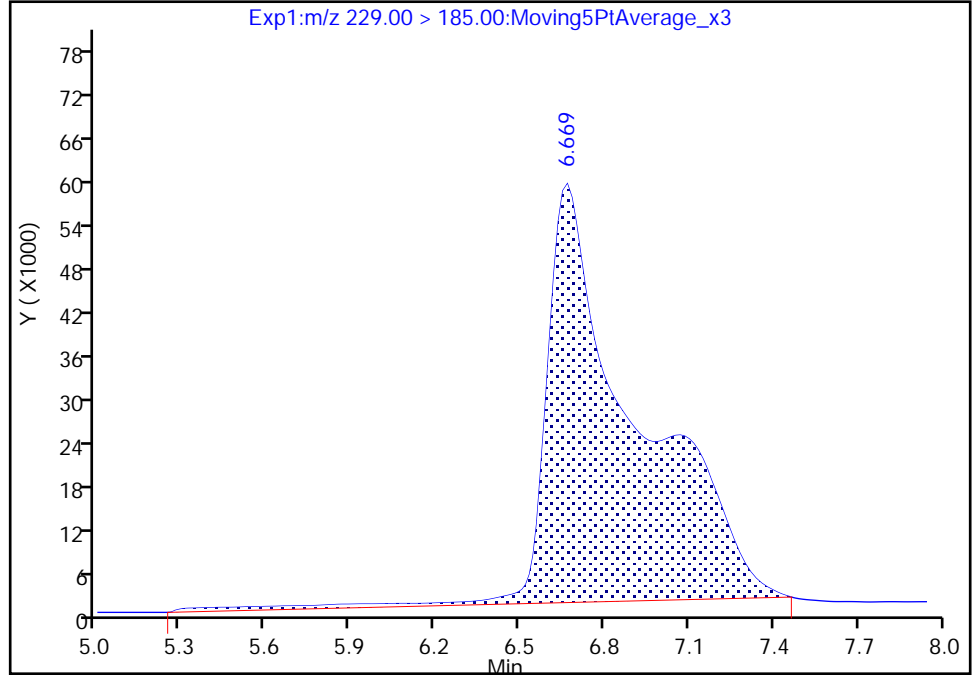
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_024.d  
Injection Date: 24-Feb-2021 06:11:27 Instrument ID: A10  
Lims ID: LCS 320-464016/2-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 24 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

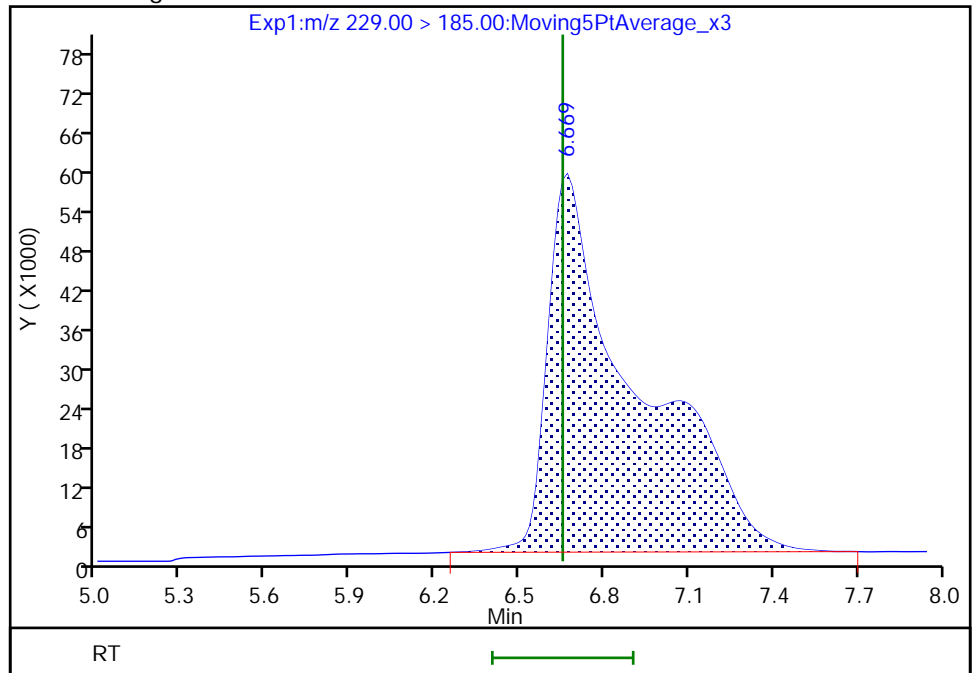
RT: 6.67  
Area: 1283234  
Amount: 0.100849  
Amount Units: ng/ml

Processing Integration Results



RT: 6.67  
Area: 1268792  
Amount: 0.099688  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:24  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

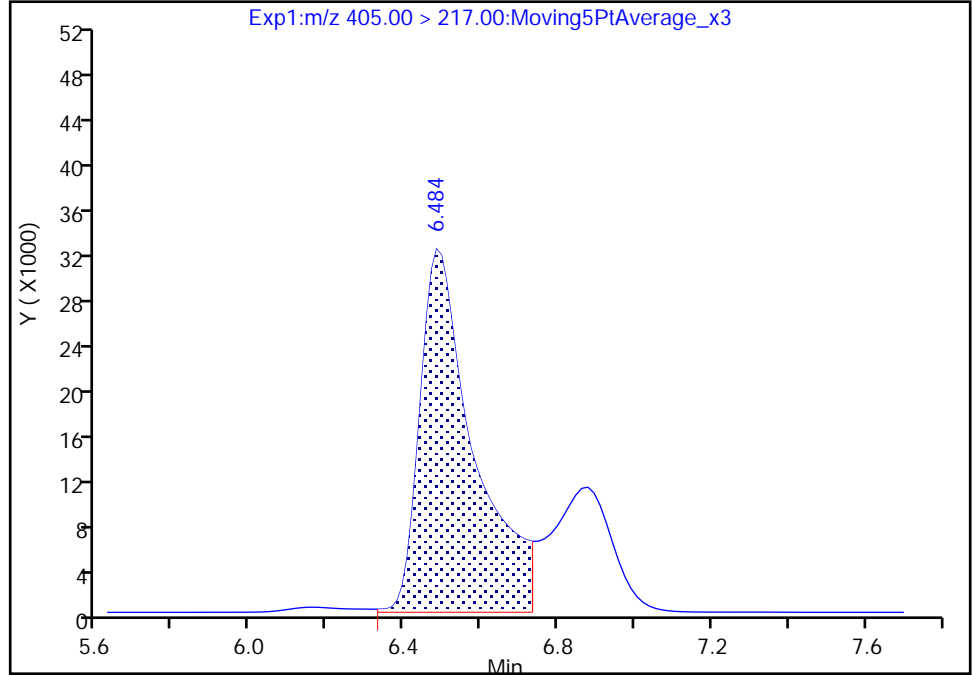
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Injection Date: 24-Feb-2021 06:11:27 Instrument ID: A10  
Lims ID: LCS 320-464016/2-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 24 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

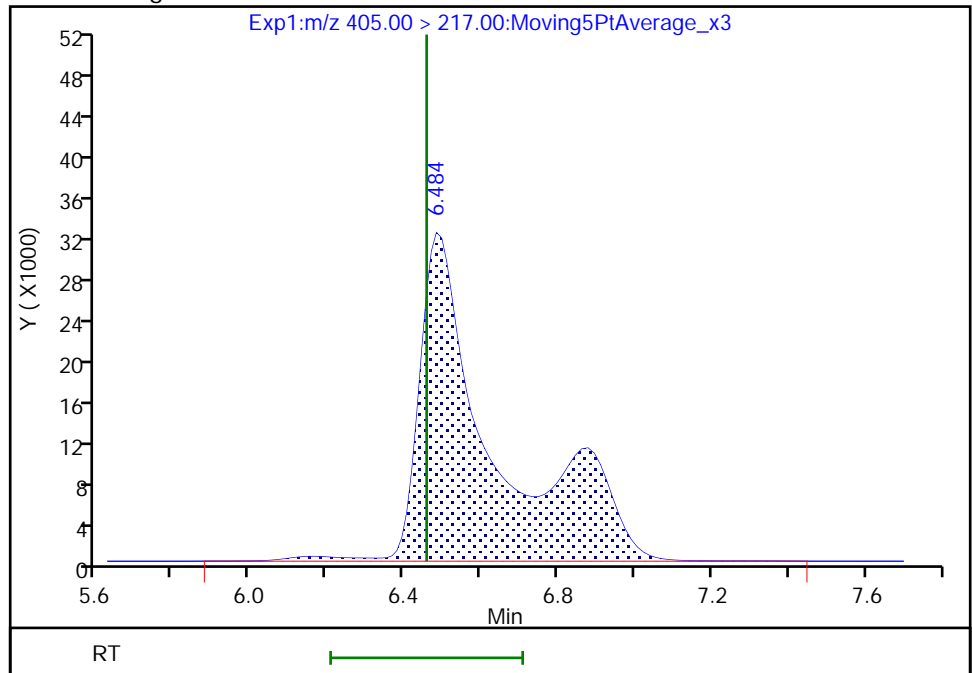
RT: 6.48  
Area: 314723  
Amount: 0.076503  
Amount Units: ng/ml

Processing Integration Results



RT: 6.48  
Area: 444997  
Amount: 0.108171  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:20  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-464016/3-A  
 Matrix: Water Lab File ID: 2021.02.23\_A10\_TB3+\_B\_025.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 02/22/2021 11:40  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 02/24/2021 06:28  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 464205 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.206		0.0020	
13252-13-6	HFPO-DA	0.211		0.0020	
773804-62-9	Hydro-EVE Acid	0.211		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.249		0.0020	
749836-20-2	Hydro-PS Acid	0.202		0.0020	
1132933-86-8	NVHOS	0.194		0.0020	
267239-61-2	PEPA	0.230		0.020	
113507-82-7	PES	0.202		0.0020	
151772-58-6	PFECA B	0.208		0.0020	
801212-59-9	PFECA G	0.229		0.0020	
674-13-5	PFMOAA	0.175		0.0020	
39492-88-1	PFO2HxA	0.204		0.0020	
39492-89-2	PFO3OA	0.201		0.0020	
39492-90-5	PFO4DA	0.221		0.0020	
39492-91-6	PFO5DA	0.173		0.0020	
13140-29-9	PMPA	0.200		0.010	
29311-67-9	PS Acid	0.216		0.0020	
2416366-22-6	R-EVE	0.215		0.0020	
2416366-18-0	R-PSDA	0.222		0.0020	
2416366-21-5	R-PSDCA	0.210		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	95		25-150



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
 Lims ID: LCSD 320-464016/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 24-Feb-2021 06:28:56 ALS Bottle#: 25 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-464016/3-a  
 Misc. Info.: Plate: 1 Rack: 2  
 Operator ID: Sac\_inst\_A10 Instrument ID: A10  
 Method: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\A10\_PFAS\_CHEM\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 25-Feb-2021 07:44:51 Calib Date: 20-Feb-2021 14:15:58  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A10\20210220-113676.b\2021.02.20\_A10\_TB3+\_ICAL\_014.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1619

First Level Reviewer: vangmy Date: 24-Feb-2021 09:24:23  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	2.634	2.716	-0.082		878371	0.0877		87.7	87.9	M
2 R-EVE										M
405.00 > 217.00	6.420	6.458	-0.038		442554	0.1076		108	9928	M
3 R-PSDA										M
440.90 > 241.00	6.522	6.560	-0.038		301825	0.1111		111	7066	M
23 PMPA										M
229.00 > 185.00	6.622	6.653	-0.031		1272270	0.1000		100.0	478	M
4 Hydrolyzed PSDA										M
439.00 > 343.00	6.638	6.669	-0.031		989994	0.1247		125	17019	M
5 NVHOS										M
297.00 > 135.00	7.222	7.260	-0.038		745499	0.0972		97.2	13008	M
6 PFO2HxA										
245.00 > 85.00	7.842	7.863	-0.021		959491	0.1022		102	7775	
22 PEPA										
278.90 > 234.90	8.511	8.521	-0.010		641914	0.1148		115	1014	
7 PES										
314.90 > 135.00	8.849	8.860	-0.011		4748937	0.1011		101	154697	
8 PFECA B										
295.00 > 201.00	9.076	9.087	-0.011		674120	0.1039		104	18498	
9 PFO3OA										
310.90 > 85.00	9.322	9.321	0.001		601338	0.1003		100	14038	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.432	9.432	0.0		1314455	0.2376		95.0	52993	
11 HPFO-DA										
285.00 > 169.00	9.432	9.432	0.0	1.000	603931	0.1055		106	24243	
12 R-PSDCA										
397.00 > 217.00	9.793	9.792	0.001		4594328	0.1049		105	163141	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.850	9.849	0.001		8332559	0.1055		106	112912	
D 14 13C4 PFHpA										
367.00 > 322.00	9.850	9.849	0.001		6061078	0.2386		95.4	125930	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.850	9.849	0.001	1.000	2851893	0.1113	Target=0.00	111	25483	
363.00 > 169.00	9.850	9.849	0.001	1.000	1182561		2.41(0.00-0.00)		29579	
15 Hydro-PS Acid										
463.00 > 262.90	9.869	9.868	0.001		2568358	0.1011		101	73733	
17 PFECA G										
378.90 > 184.90	9.976	9.958	0.018		1075744	0.1145		115	44346	
18 PFO4DA										
376.90 > 85.00	10.122	10.100	0.022		571164	0.1107		111	3599	
19 PS Acid										
443.00 > 146.90	10.184	10.184	0.0		1237279	0.1082		108	37519	
20 EVE Acid										
407.00 > 262.90	10.184	10.184	0.0		4652741	0.1030		103	93232	
21 TAF										
442.90 > 85.00	10.683	10.668	0.015		325078	0.0867		86.7	647	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d

Injection Date: 24-Feb-2021 06:28:56

Instrument ID: A10

Lims ID: LCSD 320-464016/3-A

Client ID:

Operator ID: Sac\_inst\_A10

ALS Bottle#: 25

Worklist Smp#: 12

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

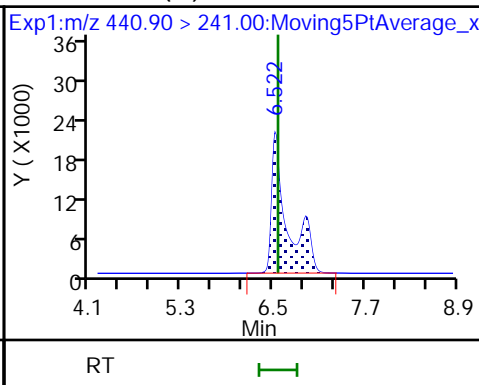
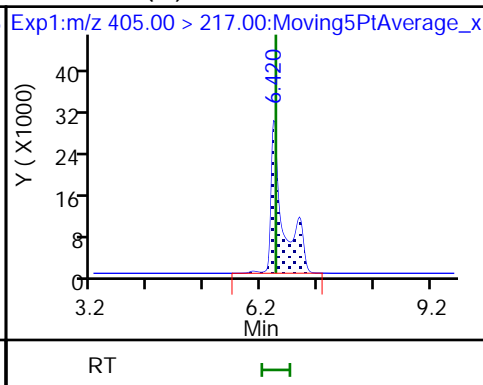
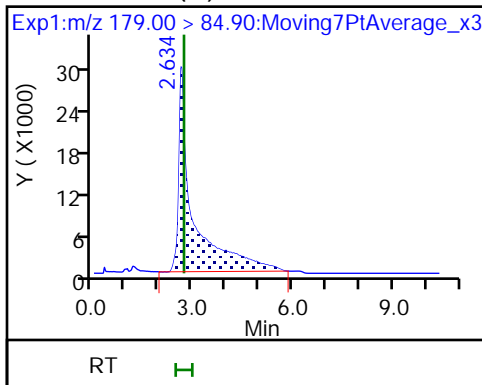
Method: A10\_PFAAS\_CHEM\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFM0AA (M)

2 R-EVE (M)

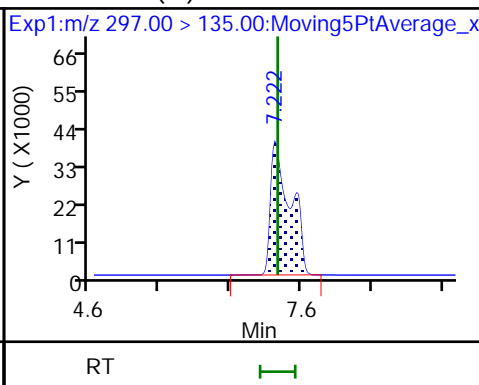
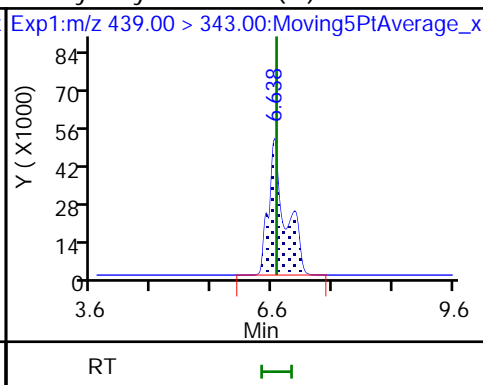
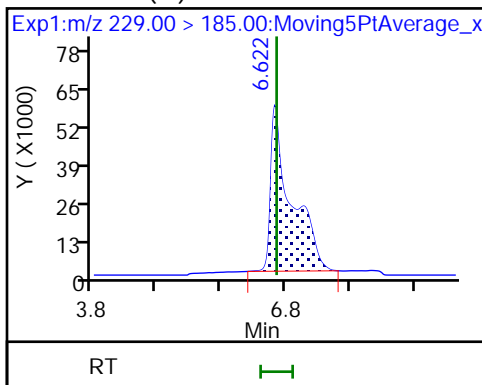
3 R-PSDA (M)



23 PMPA (M)

4 Hydrolyzed PSDA (M)

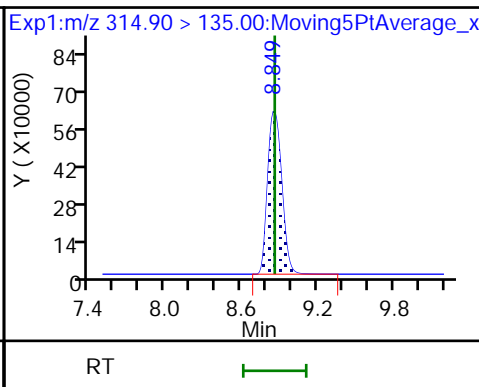
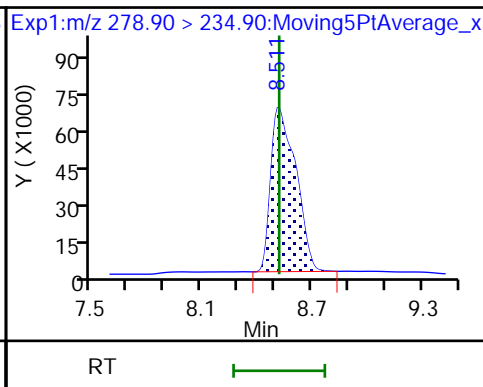
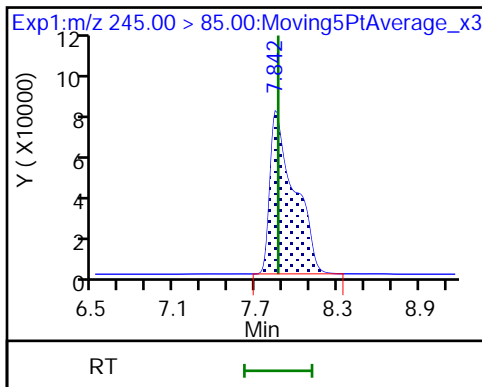
5 NVHOS (M)



6 PFO2HxA

22 PEPA

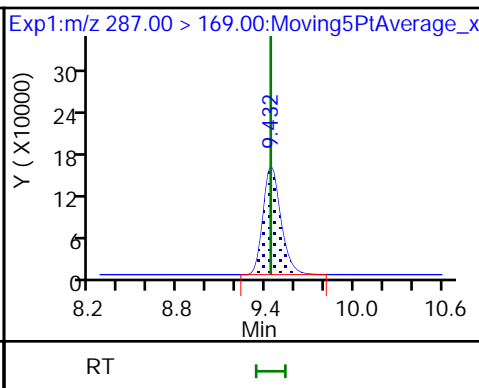
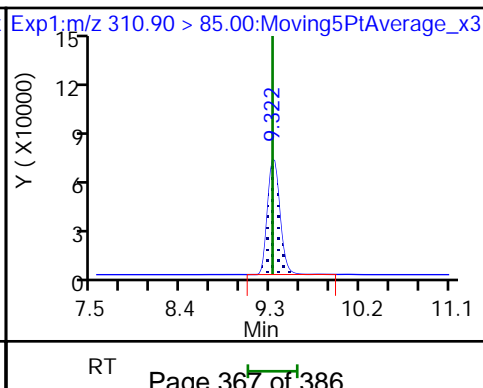
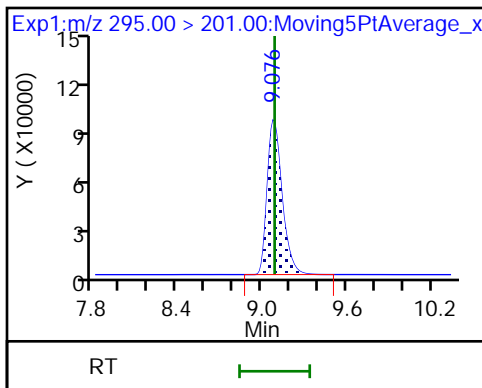
7 PES

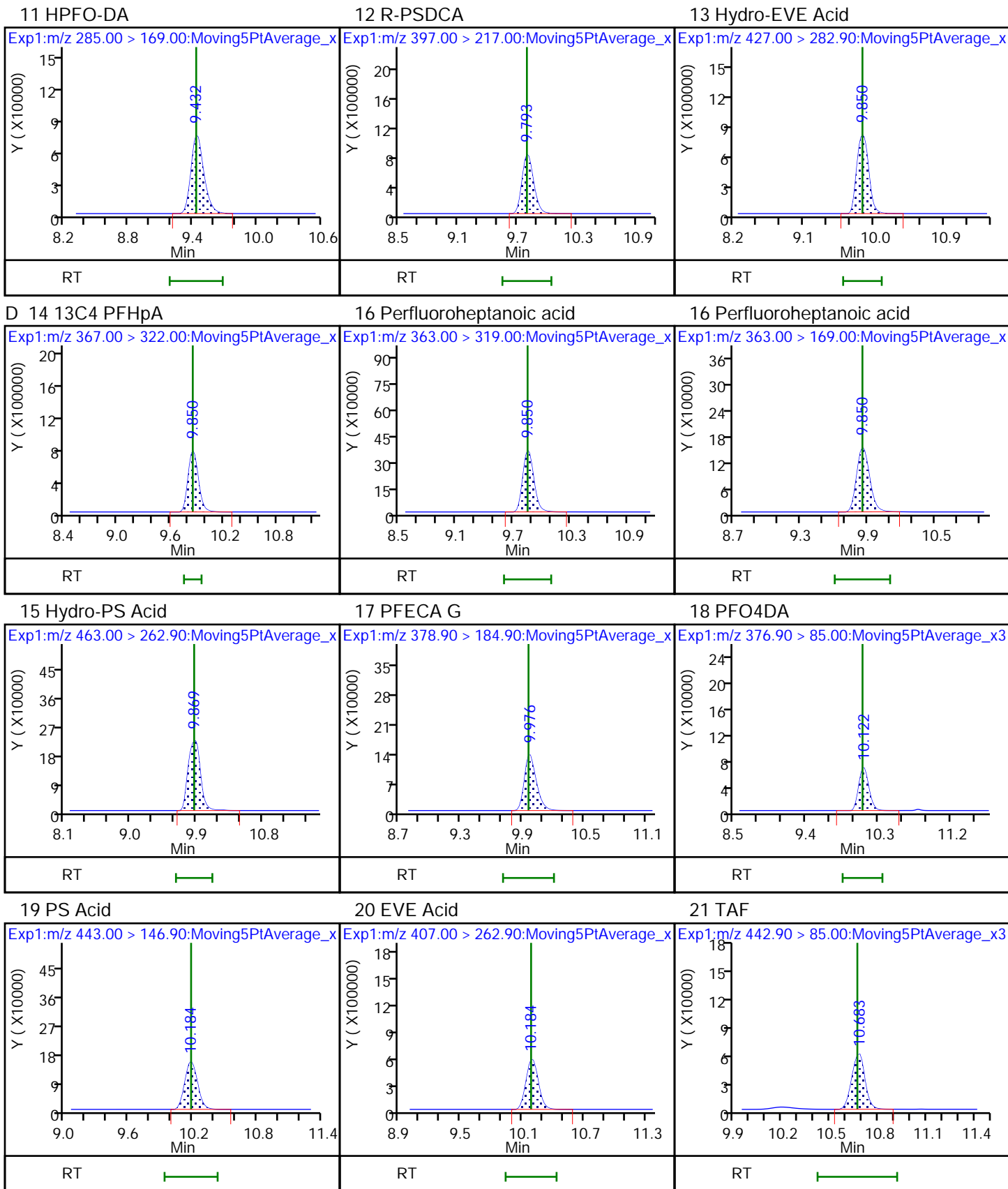


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

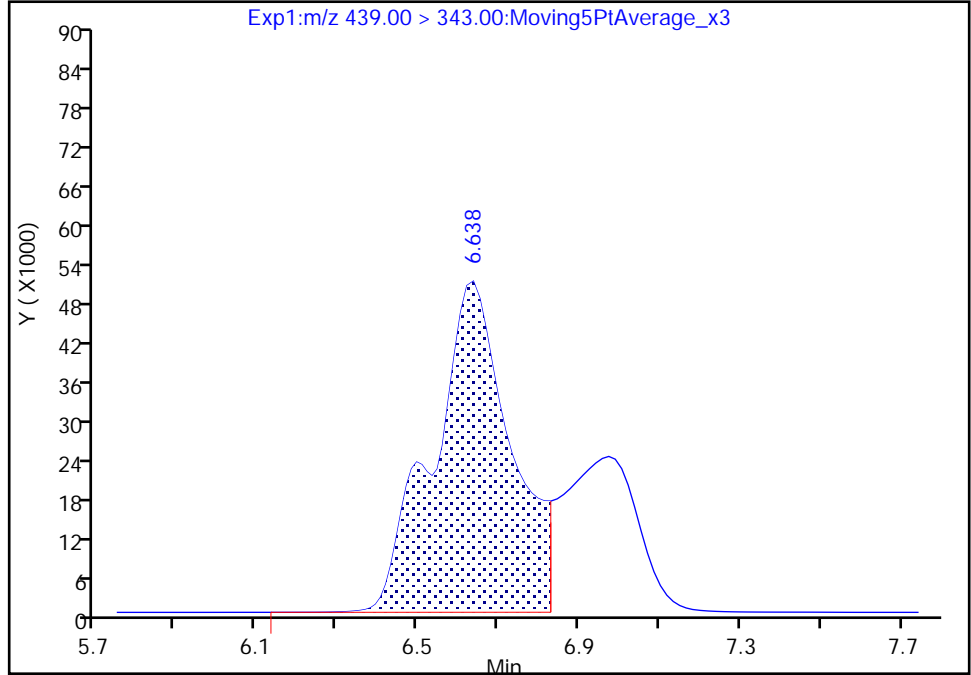
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
 Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
 Lims ID: LCSD 320-464016/3-A  
 Client ID:  
 Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

4 Hydrolyzed PSDA, CAS: 2416366-19-1

Signal: 1

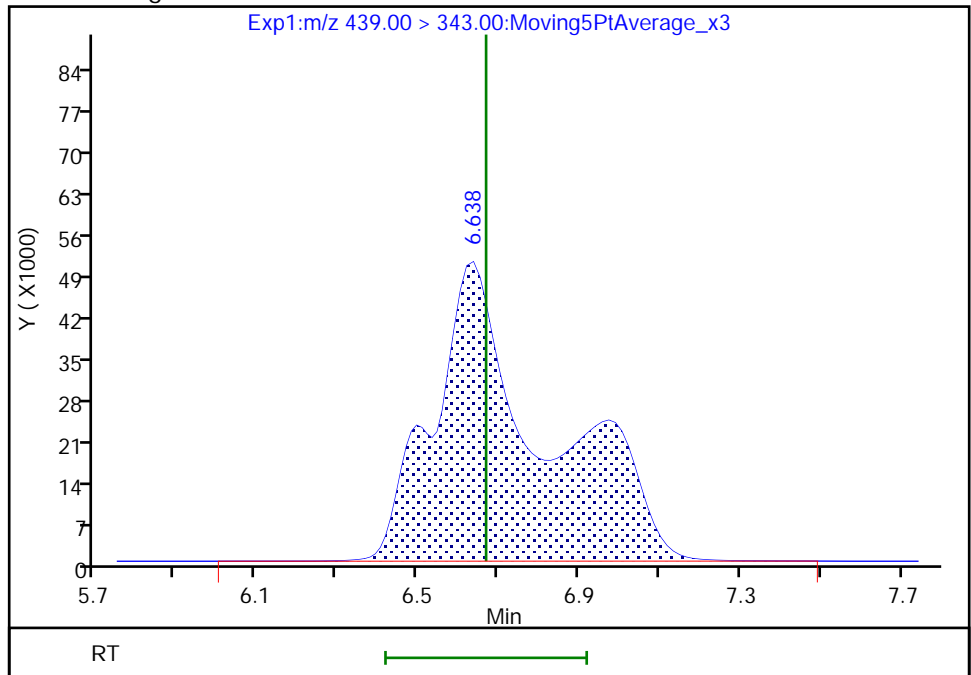
RT: 6.64  
 Area: 683552  
 Amount: 0.086070  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.64  
 Area: 989994  
 Amount: 0.124656  
 Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Sacramento

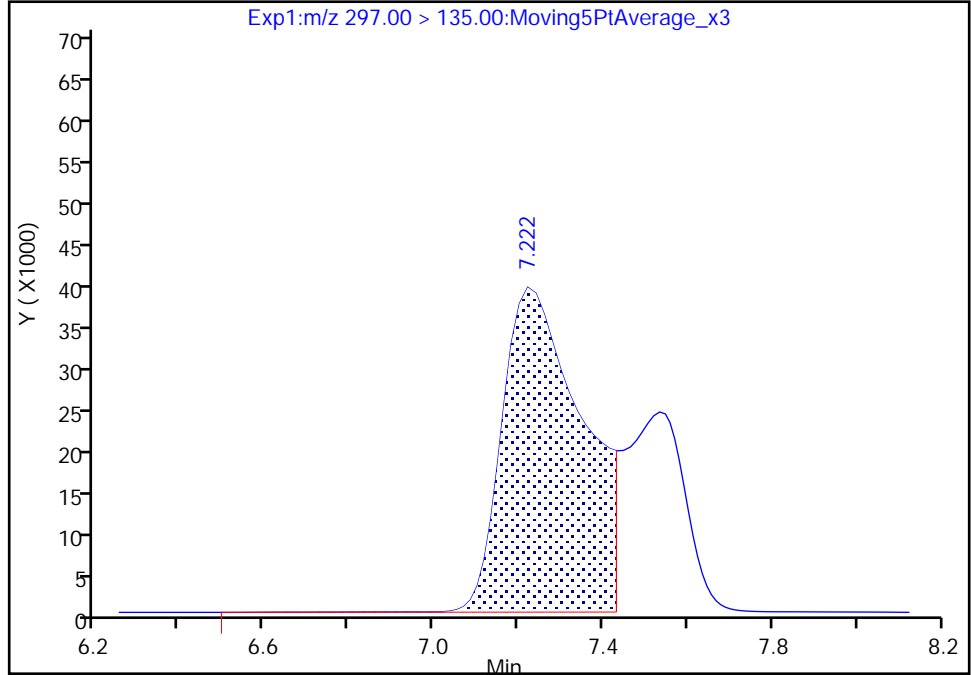
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
Lims ID: LCSD 320-464016/3-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

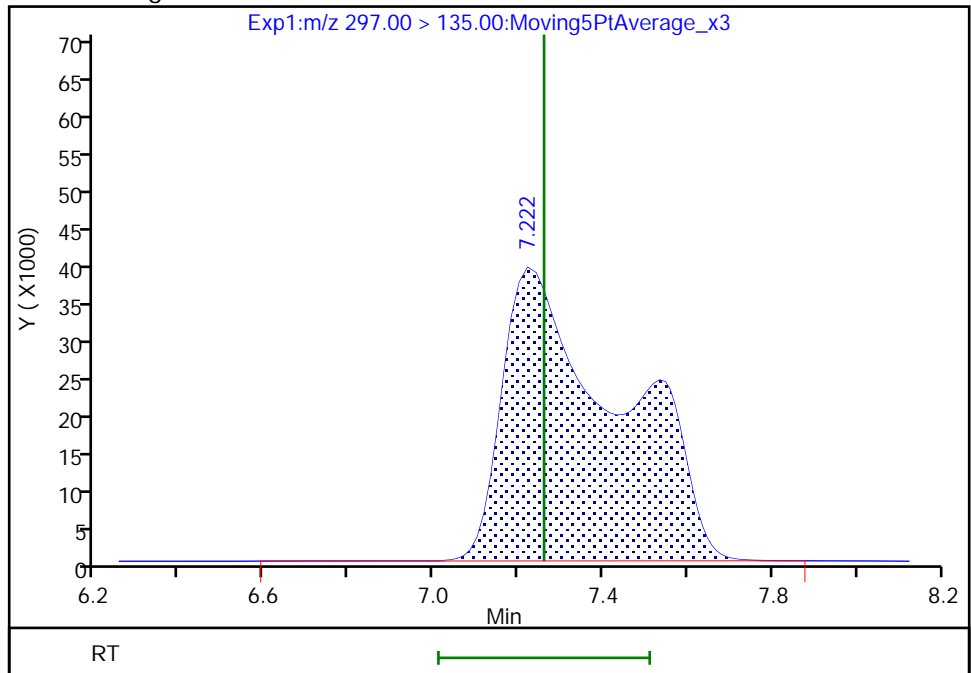
RT: 7.22  
Area: 510676  
Amount: 0.066614  
Amount Units: ng/ml

Processing Integration Results



RT: 7.22  
Area: 745499  
Amount: 0.097244  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:24:12  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

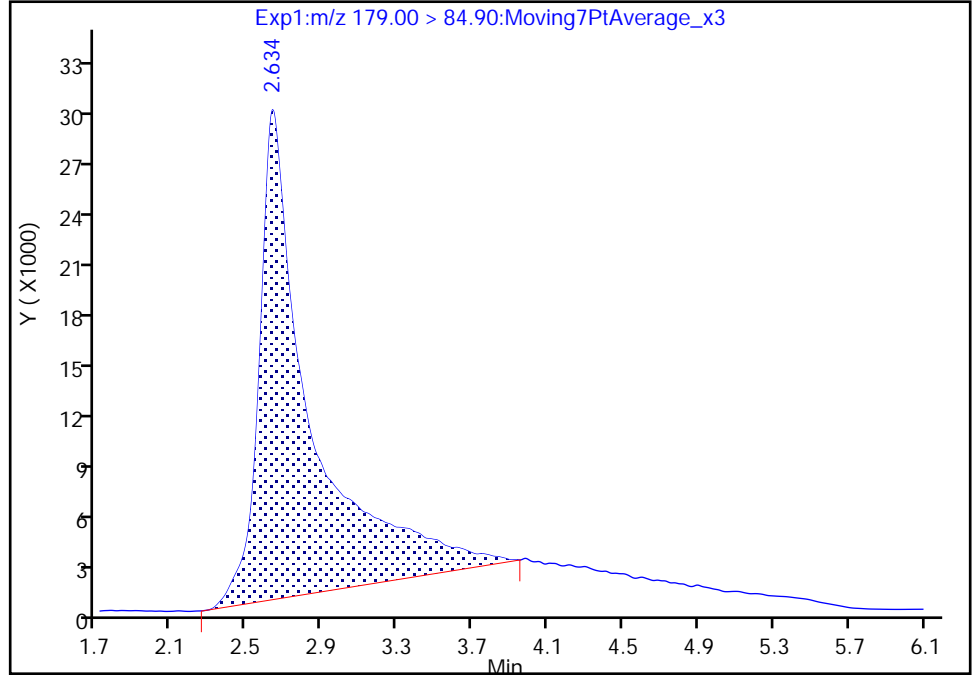
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
Lims ID: LCSD 320-464016/3-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

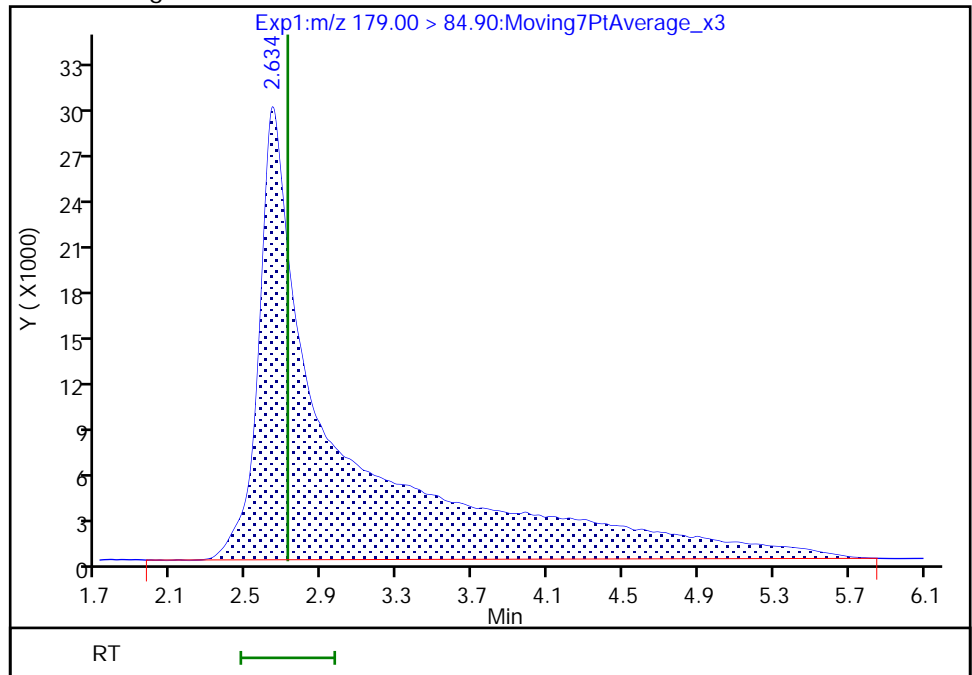
RT: 2.63  
Area: 563477  
Amount: 0.056279  
Amount Units: ng/ml

Processing Integration Results



RT: 2.63  
Area: 878371  
Amount: 0.087730  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:56  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

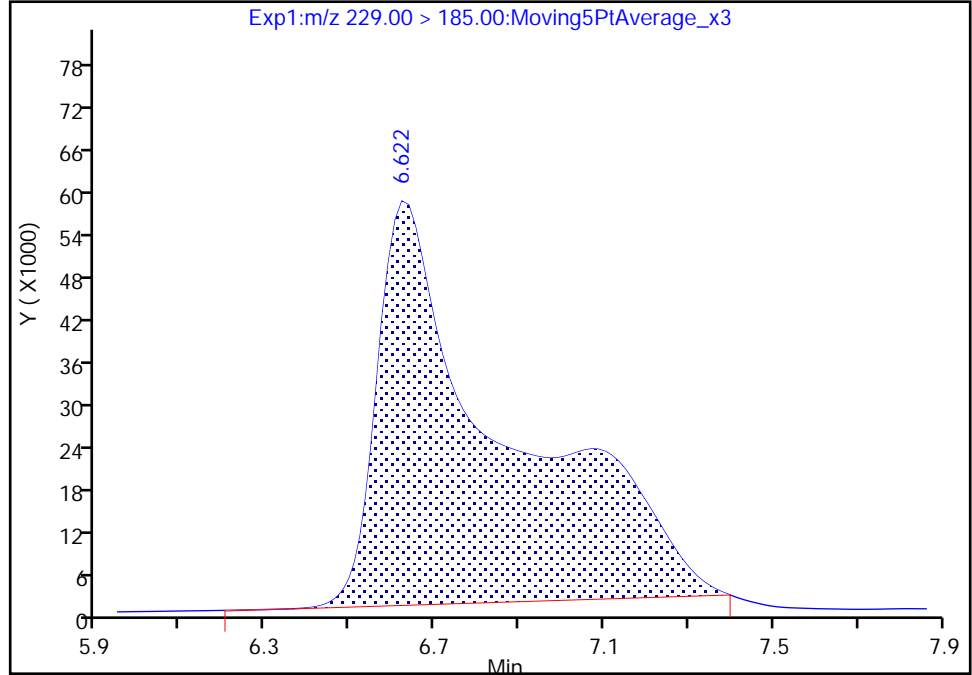
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Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
Lims ID: LCSD 320-464016/3-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

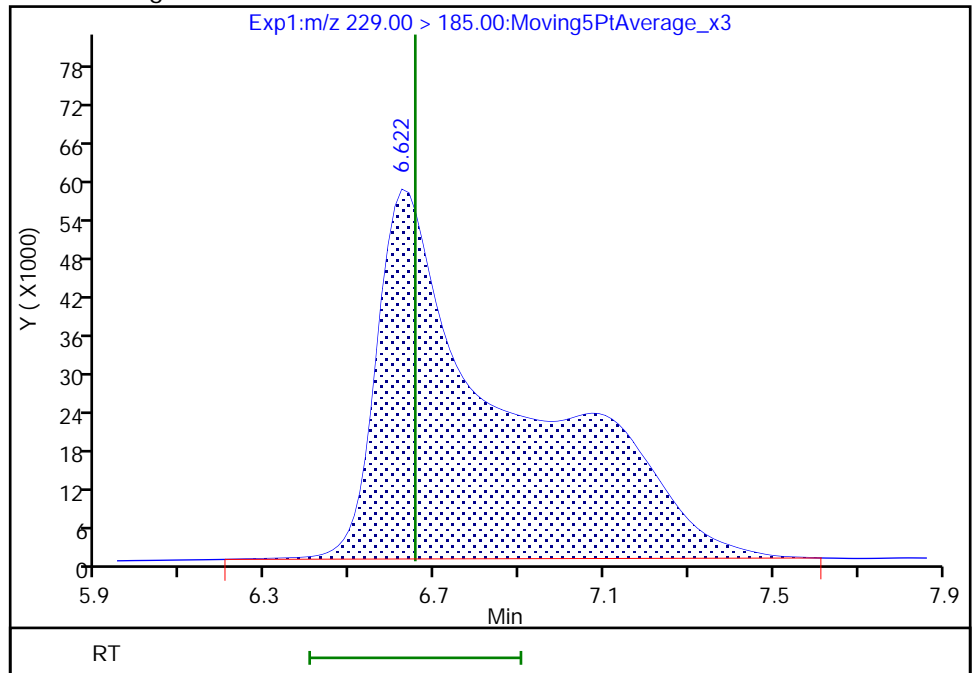
RT: 6.62  
Area: 1198141  
Amount: 0.094012  
Amount Units: ng/ml

Processing Integration Results



RT: 6.62  
Area: 1272270  
Amount: 0.099968  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:24:06  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

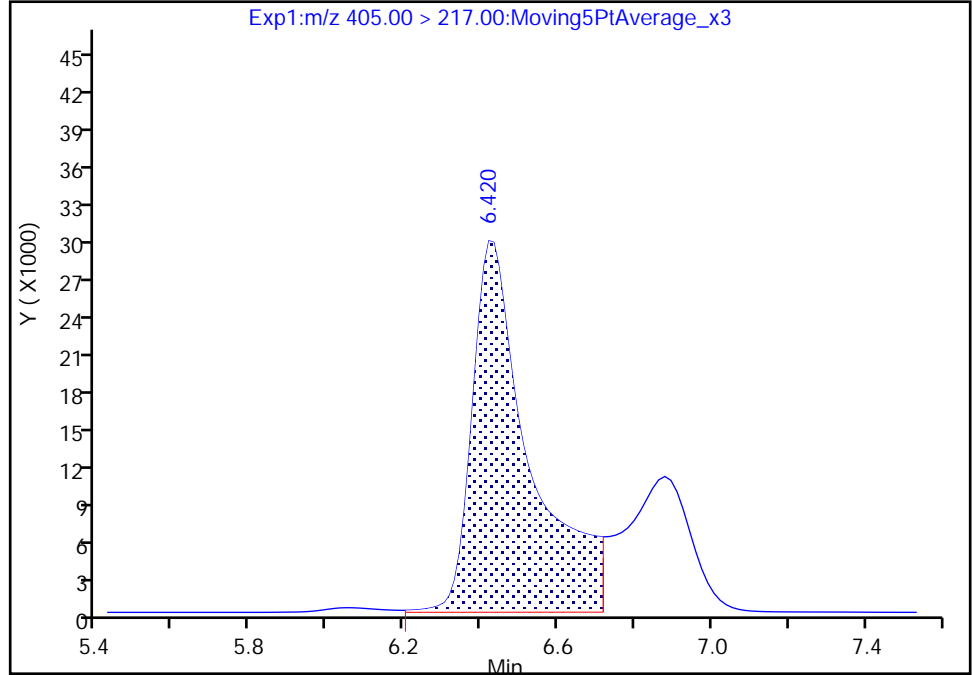
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
Lims ID: LCSD 320-464016/3-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

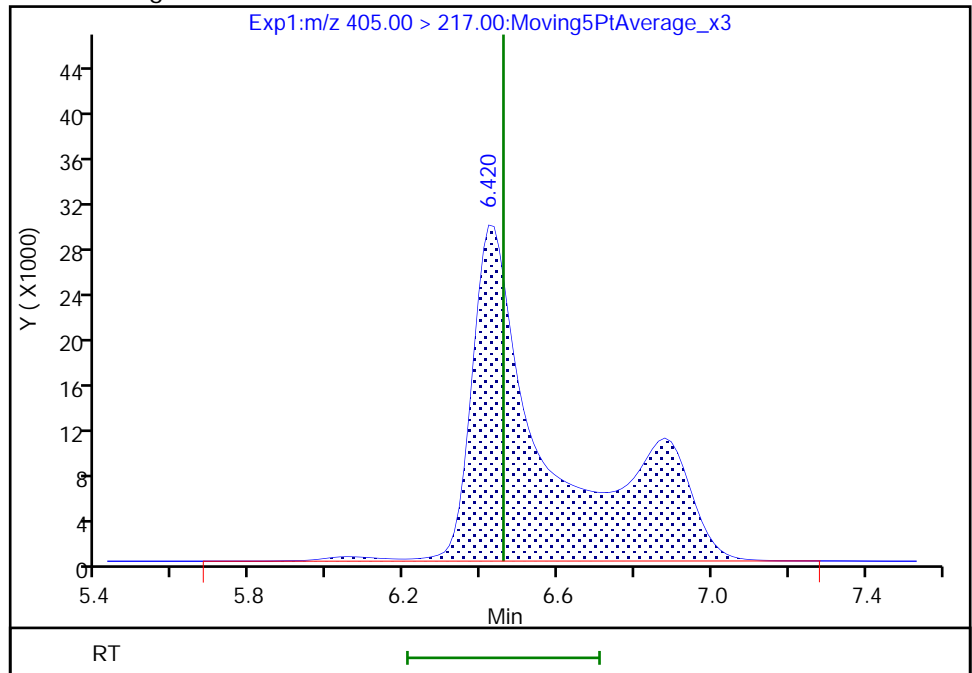
RT: 6.42  
Area: 310117  
Amount: 0.075384  
Amount Units: ng/ml

Processing Integration Results



RT: 6.42  
Area: 442554  
Amount: 0.107577  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:23:58  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

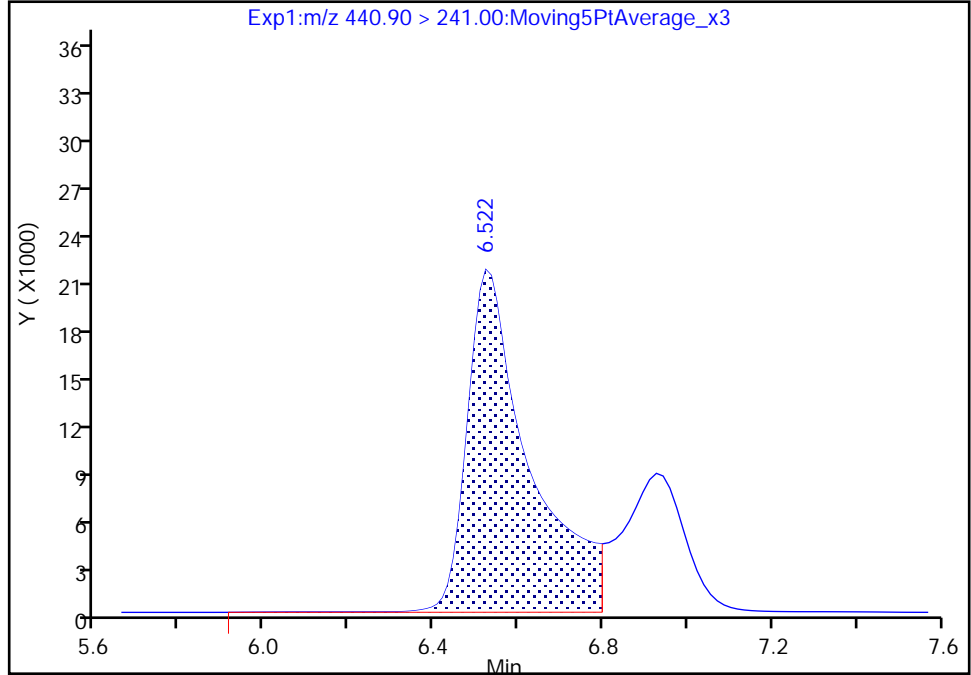
Data File: \\chromfs\Sacramento\ChromData\A10\20210223-113777.b\2021.02.23\_A10\_TB3+\_B\_025.d  
Injection Date: 24-Feb-2021 06:28:56 Instrument ID: A10  
Lims ID: LCSD 320-464016/3-A  
Client ID:  
Operator ID: Sac\_inst\_A10 ALS Bottle#: 25 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: A10\_PFAS\_CHEM\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

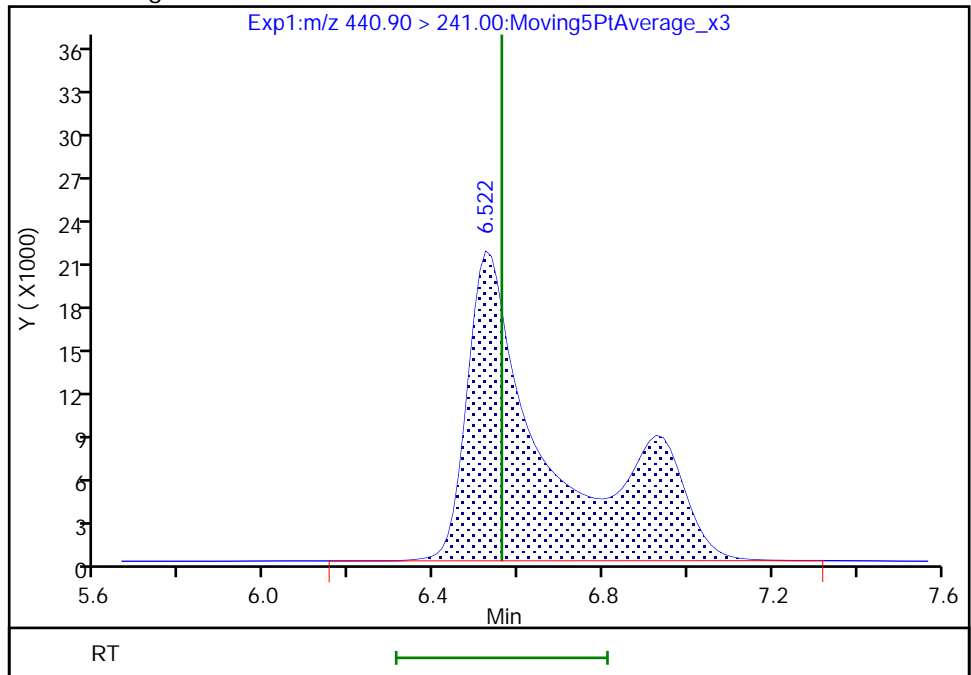
RT: 6.52  
Area: 215862  
Amount: 0.079474  
Amount Units: ng/ml

Processing Integration Results



RT: 6.52  
Area: 301825  
Amount: 0.111123  
Amount Units: ng/ml

Manual Integration Results



Reviewer: vangmy, 24-Feb-2021 09:24:02  
Audit Action: Manually Integrated

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Start Date: 02/20/2021 10:46

Analysis Batch Number: 463725 End Date: 02/20/2021 14:50

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-463725/2		02/20/2021 10:46	1	2021.02.20_A10_TB3+ ICAL_002.d	GeminiC18 3x100 3(mm)
IC 320-463725/3		02/20/2021 11:03	1	2021.02.20_A10_TB3+ ICAL_003.d	GeminiC18 3x100 3(mm)
IC 320-463725/4		02/20/2021 11:21	1	2021.02.20_A10_TB3+ ICAL_004.d	GeminiC18 3x100 3(mm)
IC 320-463725/5		02/20/2021 11:38	1	2021.02.20_A10_TB3+ ICAL_005.d	GeminiC18 3x100 3(mm)
IC 320-463725/6		02/20/2021 11:56	1	2021.02.20_A10_TB3+ ICAL_006.d	GeminiC18 3x100 3(mm)
IC 320-463725/7		02/20/2021 12:13	1	2021.02.20_A10_TB3+ ICAL_007.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/20/2021 12:31	1		GeminiC18 3x100 3(mm)
IC 320-463725/9		02/20/2021 12:48	1	2021.02.20_A10_TB3+ ICAL_009.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/20/2021 13:06	1		GeminiC18 3x100 3(mm)
IC 320-463725/11		02/20/2021 13:23	1	2021.02.20_A10_TB3+ ICAL_011.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/20/2021 13:41	1		GeminiC18 3x100 3(mm)
IC 320-463725/13		02/20/2021 13:58	1	2021.02.20_A10_TB3+ ICAL_013.d	GeminiC18 3x100 3(mm)
IC 320-463725/14		02/20/2021 14:15	1	2021.02.20_A10_TB3+ ICAL_014.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/20/2021 14:33	1		GeminiC18 3x100 3(mm)
ICV 320-463725/16		02/20/2021 14:50	1	2021.02.20_A10_TB3+ ICAL_016.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Start Date: 02/24/2021 03:16

Analysis Batch Number: 464205 End Date: 02/24/2021 11:08

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-464205/1		02/24/2021 03:16	1	2021.02.23_A10_TB3+ B 014.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 03:34	1		GeminiC18 3x100 3(mm)
MB 320-464016/1-A		02/24/2021 03:51	1	2021.02.23_A10_TB3+ B 016.d	GeminiC18 3x100 3(mm)
320-70306-1	SEEP-C-EFFLUENT-192-021321	02/24/2021 04:09	1	2021.02.23_A10_TB3+ B 017.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 04:26	1		GeminiC18 3x100 3(mm)
320-70306-3	SEEP-C-RAIN-EFFLUENT-24-021321	02/24/2021 04:44	1	2021.02.23_A10_TB3+ B 019.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 05:01	1		GeminiC18 3x100 3(mm)
320-70306-5	SEEP-C-EQBLK-ISCO-021321	02/24/2021 05:19	1	2021.02.23_A10_TB3+ B 021.d	GeminiC18 3x100 3(mm)
320-70306-6	SEEP-C-FBLK-021321	02/24/2021 05:36	1	2021.02.23_A10_TB3+ B 022.d	GeminiC18 3x100 3(mm)
320-70306-7	SEEP-C-RAIN-EQBLK-ISCO-021321	02/24/2021 05:53	1	2021.02.23_A10_TB3+ B 023.d	GeminiC18 3x100 3(mm)
LCS 320-464016/2-A		02/24/2021 06:11	1	2021.02.23_A10_TB3+ B 024.d	GeminiC18 3x100 3(mm)
LCSD 320-464016/3-A		02/24/2021 06:28	1	2021.02.23_A10_TB3+ B 025.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 06:46	1		GeminiC18 3x100 3(mm)
CCV 320-464205/14		02/24/2021 07:03	1	2021.02.23_A10_TB3+ B 027.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 07:21	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 07:38	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 07:56	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 08:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 08:31	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 08:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 09:06	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 09:23	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 09:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 09:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 10:15	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 10:33	1		GeminiC18 3x100 3(mm)
CCV 320-464205/27		02/24/2021 10:50	1	2021.02.23_A10_TB3+ B 040.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/24/2021 11:08	1		GeminiC18 3x100 3(mm)

Chemours (TB3+)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Start Date: 02/25/2021 11:44

Analysis Batch Number: 464873 End Date: 02/26/2021 08:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-464873/1		02/25/2021 11:44	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 12:01	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 12:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 12:36	20		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 12:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 13:11	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 13:28	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 13:46	1		GeminiC18 3x100 3(mm)
CCV 320-464873/9		02/25/2021 14:03	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 14:21	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 14:38	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 14:56	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 15:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 15:31	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 15:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 16:06	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 16:23	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 16:41	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 16:58	1		GeminiC18 3x100 3(mm)
CCV 320-464873/20		02/25/2021 17:16	1	2021.02.25_A10_TB3+ C 021.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 17:33	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 17:51	10		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 18:08	20		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 18:25	20		GeminiC18 3x100 3(mm)
320-70306-2	SEEP-C-INFLUENT-192-021321	02/25/2021 18:43	50	2021.02.25_A10_TB3+ C 026.d	GeminiC18 3x100 3(mm)
320-70306-4	SEEP-C-RAIN-INFLUENT-24-021321	02/25/2021 19:00	50	2021.02.25_A10_TB3+ C 027.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 19:18	100		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 19:35	1		GeminiC18 3x100 3(mm)
CCV 320-464873/29		02/25/2021 19:53	1	2021.02.25_A10_TB3+ C 030.d	GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 20:10	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 20:28	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 20:45	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 21:03	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 21:20	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 21:38	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 21:55	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 22:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 22:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 22:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 23:05	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 23:22	1		GeminiC18 3x100 3(mm)
CCV 320-464873/42		02/25/2021 23:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		02/25/2021 23:57	1		GeminiC18 3x100 3(mm)

Chemours (TB3+)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Instrument ID: A10 Start Date: 02/25/2021 11:44

Analysis Batch Number: 464873 End Date: 02/26/2021 08:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		02/26/2021 00:15	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 00:32	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 00:50	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 01:07	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 01:25	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 01:42	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 02:00	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 02:17	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 02:35	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 02:52	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 03:10	1		GeminiC18 3x100 3 (mm)
CCV 320-464873/55		02/26/2021 03:27	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 03:44	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 04:02	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 04:19	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 04:37	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 04:54	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 05:12	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 05:29	1		GeminiC18 3x100 3 (mm)
CCV 320-464873/63		02/26/2021 05:47	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 06:04	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 06:22	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 06:39	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 06:57	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 07:14	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 07:32	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 07:49	1		GeminiC18 3x100 3 (mm)
ZZZZZ		02/26/2021 08:07	1		GeminiC18 3x100 3 (mm)
CCV 320-464873/76		02/26/2021 08:24	1		GeminiC18 3x100 3 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-70306-1

SDG No.: \_\_\_\_\_

Batch Number: 464016 Batch Start Date: 02/22/21 12:39 Batch Analyst: Duong, Stephanie A

Batch Method: PFAS Prep Batch End Date: 02/22/21 16:50

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00022	LCTB3_SP 00063	AnalysisComment	
MB 320-464016/1		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL		H2O/MeOH	
LCS 320-464016/2		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL	100 uL		
LCSD 320-464016/3		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL	100 uL		
320-70306-A-1	SEEP-C-EFFLUENT-192-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-2	SEEP-C-INFLUENT-192-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-3	SEEP-C-RAIN-EFFLUENT-24-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-4	SEEP-C-RAIN-INFLUENT-24-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-5	SEEP-C-EQBLK-ISCO-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-6	SEEP-C-FBLK-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	
320-70306-A-7	SEEP-C-RAIN-EQBLK-ISCO-021321	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Chemours (TB3+)







# Shipping and Receiving Documents

**TestAmerica Sacramento**  
880 Riverside Parkway West  
Sacramento, CA 95605  
(916) 373-5600

**Chain of Custody Record**

*Revised  
2/25/21  
PJ4*

**TestAmerica**  
THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.

**Client Contact**  
Chemours  
2282B NC HWY 87 W  
Fayetteville, NC 28306  
910-678-1213  
Project Name: Seep Flow Through Cell Sampling 2021  
Site: Chemours Fayetteville Works Plant  
P O #

**Regulatory Program:**  DW  HPCES  RCRA  Other:

**Lab Contact:** Christel Compton  
Date: 02/16/2021  
Carrier: FedEx

**Sampler Initials:**  
Analysis Turnaround Time  
 CALENDAR DAYS  WORKING DAYS  
TAT if different from Below  
2 weeks   
1 week   
2 days   
1 day

**Sample Identification**

Sample Date	Sample Time	Sample Type (C=Comp, G=Gas)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Table 3 (20) HL	Table 3 (20) LL
2/13/2021	10:00	C	W	8	N	N	X	X
2/13/2021	10:00	C	W	8	N	N	X	X
2/13/2021	10:00	C	W	8	N	N	X	X
2/13/2021	10:00	C	W	8	N	N	X	X
2/13/2021	16:05	G	W	8	N	N	X	X
2/13/2021	16:10	G	W	8	N	N	X	X
2/13/2021	16:00	G	W	8	N	N	X	X

**Sample Specific Notes:**  
Hold All Remaining Volumes as Relains

**Barcode:**  
320-70306 Chain of Custody

**Preservation Used:** 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other  
Possible Hazard Identification:  
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown

**Relinquished by:** [Signature] Date/Time: 2/16/21 10:00 AM  
Company: PARSONS  
Custody Seal No.:  
Received by: [Signature] Date/Time: 2-19-21 9:50 AM  
Company: ETASAC  
Cooler Temp (C) Obs'd: 17  
Therm ID No.: L-01

**Relinquished by:** [Signature] Date/Time: [Blank]  
Company: [Blank]  
Received in Laboratory by: [Blank] Date/Time: [Blank]  
Company: [Blank]

**Disposal:**  Return to Client  Reusable by Lab  Archive for Months


**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.

Sacramento, CA 95605  
(916) 373-5600

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Site Contact: Christel Compton		Date: 02/16/2021	Carrier: FedEx					
Chemours		Lab Contact:		COC No: PAR-050720-2	1 of 1 COCs					
22828 NC HWY 87 W		Sampler Initials:		Sampler:						
Fayetteville, NC 28306		<input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		For Lab Use Only:						
910-678-1213		TAT if different from Below		Walk-in Client:						
Project Name: Seep Flow Through Cell Sampling 2021		<input checked="" type="checkbox"/> 2 weeks		Lab Sampling:						
Site: Chemours Fayetteville Works Plant		<input type="checkbox"/> 1 week		Job / SDG No.:						
P O #		<input type="checkbox"/> 2 days								
		<input type="checkbox"/> 1 day								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Table 3+ (20) HL	Table 3+ (20) LL	Sample Specific Notes:
SEEP-C-EFFLUENT-192-021321	2/13/2021	10:00 C	W		8	N	N	X		Hold All Remaining Volumes
SEEP-C-INFLUENT-192-021321	2/13/2021	10:00 C	W		8	N	N	X		as Retains
SEEP-C-RAIN-EFFLUENT-24-021321	2/13/2021	10:00 C	W		8	N	N	X		
SEEP-C-RAIN-INFLUENT-24-021321	2/13/2021	10:00 C	W		8	N	N	X		
SEEP-C-EQBLK-ISCO-021321	2/13/2021	16:05 G	W		8	N	N	X		
SEEP-C-FBLK-012921	2/13/2021	16:10 G	W		8	N	N	X		
SEEP-C-RAIN-EQBLK-ISCO-021321	2/13/2021	16:00 G	W		8	N	N	X		
 320-70306 Chain of Custody										
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.										
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										
<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months										
Custody Seal No.:		Cooler Temp. (°C):		Obs'd:	Therm ID No.:					
Relinquished by:		Received by:		Company:						
Relinquished by:		Received by:		Company:						
Relinquished by:		Received in Laboratory by:		Company:						

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-70306-1

**Login Number: 70306**  
**List Number: 1**  
**Creator: Oropeza, Salvador**

**List Source: Eurofins TestAmerica, Sacramento**

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1547028
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## ANALYTICAL REPORT

Job Number: 320-70652-1

Job Description: FAY-Seep Flow Through Cell Sampling 2021

For:

The Chemours Company FC, LLC  
c/o AECOM  
Sabre Building, Suite 300  
4051 Ogletown Road  
Newark, DE 19713

Attention: Michael Aucoin



Approved for release.  
Michelle A Johnston  
Project Manager II  
3/15/2021 2:03 PM

---

Michelle A Johnston, Project Manager II  
880 Riverside Parkway, West Sacramento, CA, 95605  
(303)736-0110  
Michelle.Johnston@Eurofinset.com  
03/15/2021

cc: Barbara McGraw  
Kelly Rinehimer

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

**Eurofins TestAmerica, Sacramento**

880 Riverside Parkway, West Sacramento, CA 95605

Tel (916) 373-5600 Fax (916) 372-1059 [www.testamericainc.com](http://www.testamericainc.com)



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# Definitions/Glossary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

**CASE NARRATIVE**  
**Client: The Chemours Company FC, LLC**  
**Project: FAY-Seep Flow Through Cell Sampling 2021**  
**Report Number: 320-70652-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

North Carolina Department of Environmental Quality (NCDEQ) does not offer certification for PFAS testing in Non-Potable Water and Solid matrices.

For samples requiring analysis at a dilution, the dilution factor has been multiplied by the Method Detection Limit (MDL) for each analyte and evaluated versus the project-specific reporting limit (PSRL). If the obtained value is below the PSRL, then the PSRL is preserved as the reporting limit for the diluted result, otherwise, the obtained value becomes the reporting limit. This is done in order to maintain the PSRL to meet project requirements at the request of the client and to report the lowest possible RL for each analyte.

**Sample Arrival and Receipt**

The samples were received on 3/2/2021 11:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.4° C.

No anomalies were observed during sample receipt.

**Table 3 Fluoroproducts**

Samples SEEP-C-Effluent-24-022721 (320-70652-1), SEEP-C-Influent-24-022721 (320-70652-2), Seep-C-EQBLK-ISCO-022721 (320-70652-3) and SEEP-C-FBLK-022721 (320-70652-4) were analyzed for Table 3 Fluoroproducts in accordance with Chemours 4.3.18. The samples were prepared on 03/03/2021 and analyzed on 03/10/2021.

The project required MS and Sample Duplicate could not be performed for prep batch 320-467237, due to either being from a different job/SDG or due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70652-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70652-1	SEEP-C-Effluent-24-022721	EVE Acid	<0.017	<0.017	0.017
320-70652-1	SEEP-C-Effluent-24-022721	HFPO-DA	<0.081	<0.081	0.081
320-70652-1	SEEP-C-Effluent-24-022721	Hydro-EVE Acid	<0.014	<0.014	0.014
320-70652-1	SEEP-C-Effluent-24-022721	Hydrolyzed PSDA	<0.038	<0.038	0.038
320-70652-1	SEEP-C-Effluent-24-022721	Hydro-PS Acid	<0.0061	<0.0061	0.0061
320-70652-1	SEEP-C-Effluent-24-022721	NVHOS	<0.015	<0.015	0.015
320-70652-1	SEEP-C-Effluent-24-022721	PEPA	<0.020	<0.020	0.020
320-70652-1	SEEP-C-Effluent-24-022721	PES	<0.0067	<0.0067	0.0067
320-70652-1	SEEP-C-Effluent-24-022721	PFECA B	<0.027	<0.027	0.027
320-70652-1	SEEP-C-Effluent-24-022721	PFECA G	<0.048	<0.048	0.048
320-70652-1	SEEP-C-Effluent-24-022721	PFMOAA	0.28	0.28	0.080
320-70652-1	SEEP-C-Effluent-24-022721	PFO2HxA	0.083	0.083	0.027
320-70652-1	SEEP-C-Effluent-24-022721	PFO3OA	<0.039	<0.039	0.039
320-70652-1	SEEP-C-Effluent-24-022721	PFO4DA	<0.059	<0.059	0.059
320-70652-1	SEEP-C-Effluent-24-022721	PFO5DA	<0.078	<0.078	0.078
320-70652-1	SEEP-C-Effluent-24-022721	PMPA	0.66	0.66	0.62
320-70652-1	SEEP-C-Effluent-24-022721	PS Acid	<0.020	<0.020	0.020
320-70652-1	SEEP-C-Effluent-24-022721	R-EVE	<0.072	<0.072	0.072
320-70652-1	SEEP-C-Effluent-24-022721	R-PSDA	<0.071	<0.071	0.071
320-70652-1	SEEP-C-Effluent-24-022721	R-PSDCA	<0.017	<0.017	0.017
320-70652-2	SEEP-C-Influent-24-022721	EVE Acid	0.065	0.065	0.017
320-70652-2	SEEP-C-Influent-24-022721	HFPO-DA	5.6	5.6	0.081
320-70652-2	SEEP-C-Influent-24-022721	Hydro-EVE Acid	0.38	0.38	0.014
320-70652-2	SEEP-C-Influent-24-022721	Hydrolyzed PSDA	0.63	0.63	0.038
320-70652-2	SEEP-C-Influent-24-022721	Hydro-PS Acid	0.15	0.15	0.0061
320-70652-2	SEEP-C-Influent-24-022721	NVHOS	0.26	0.26	0.015
320-70652-2	SEEP-C-Influent-24-022721	PEPA	1.2	1.2	0.020
320-70652-2	SEEP-C-Influent-24-022721	PES	<0.0067	<0.0067	0.0067
320-70652-2	SEEP-C-Influent-24-022721	PFECA B	<0.027	<0.027	0.027
320-70652-2	SEEP-C-Influent-24-022721	PFECA G	<0.048	<0.048	0.048
320-70652-2	SEEP-C-Influent-24-022721	PFMOAA	23	23	0.080
320-70652-2	SEEP-C-Influent-24-022721	PFO2HxA	8.4	8.4	0.027
320-70652-2	SEEP-C-Influent-24-022721	PFO3OA	3.0	3.0	0.039
320-70652-2	SEEP-C-Influent-24-022721	PFO4DA	0.82	0.82	0.059
320-70652-2	SEEP-C-Influent-24-022721	PFO5DA	<0.078	<0.078	0.078
320-70652-2	SEEP-C-Influent-24-022721	PMPA	3.8	3.8	0.62
320-70652-2	SEEP-C-Influent-24-022721	PS Acid	<0.020	<0.020	0.020
320-70652-2	SEEP-C-Influent-24-022721	R-EVE	0.37	0.37	0.072
320-70652-2	SEEP-C-Influent-24-022721	R-PSDA	0.38	0.38	0.071
320-70652-2	SEEP-C-Influent-24-022721	R-PSDCA	<0.017	<0.017	0.017
320-70652-3	Seep-C-EQBLK-ISCO-022721	EVE Acid	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	HFPO-DA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

## Executive Summary

Client: The Chemours Company FC, LLC

Job Number: 320-70652-1

### Chemours (TB3+) : Fluoroproducts Analytical Method – Table 3+

Lab Sample ID	Client Sample ID	Analyte	Individual Result (ug/L)	Final Result (ug/L)	RL
320-70652-3	Seep-C-EQBLK-ISCO-022721	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	NVHOS	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PEPA	<0.020	<0.020	0.020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PES	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFECA B	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFECA G	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFMOAA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFO2HxA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFO3OA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFO4DA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PFO5DA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	PMPA	<0.010	<0.010	0.010
320-70652-3	Seep-C-EQBLK-ISCO-022721	PS Acid	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	R-EVE	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	R-PSDA	<0.0020	<0.0020	0.0020
320-70652-3	Seep-C-EQBLK-ISCO-022721	R-PSDCA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	EVE Acid	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	HFPO-DA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	Hydro-EVE Acid	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	Hydrolyzed PSDA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	Hydro-PS Acid	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	NVHOS	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PEPA	<0.020	<0.020	0.020
320-70652-4	SEEP-C-FBLK-022721	PES	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFECA B	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFECA G	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFMOAA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFO2HxA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFO3OA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFO4DA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PFO5DA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	PMPA	<0.010	<0.010	0.010
320-70652-4	SEEP-C-FBLK-022721	PS Acid	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	R-EVE	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	R-PSDA	<0.0020	<0.0020	0.0020
320-70652-4	SEEP-C-FBLK-022721	R-PSDCA	<0.0020	<0.0020	0.0020

(a) DU indicates a laboratory duplicate.

(b) If the sample and laboratory duplicate are both greater than or equal to 5X their RL and the relative percent difference (RPD) is less than or equal to 20, the average value is reported. If the RPD is greater than 20, the higher value is reported. If the sample or laboratory duplicate is less than 5X their RL, and the absolute difference between the sample and laboratory duplicate is less than or equal to the sample RL, the average value is reported. If the absolute difference is greater than the sample RL, the higher value is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(c) For Table 3 and Table 6 methods, if the sample and laboratory duplicate are greater than their RL, the average is reported. If the sample or the duplicate is greater than or equal to their RL and the other is less than its RL, the higher higher value is reported. If the sample and duplicate are both less than their RL, the lowest RL is reported.

(d) Moisture Determined by ASTM D2216.

# Detection Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Client Sample ID: SEEP-C-Effluent-24-022721

## Lab Sample ID: 320-70652-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PFMOAA	0.28		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	0.083		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	0.66		0.62		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: SEEP-C-Influent-24-022721

## Lab Sample ID: 320-70652-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
EVE Acid	0.065		0.017		ug/L	1		Chemours (TB3+)	Total/NA
HFPO-DA	5.6		0.081		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-EVE Acid	0.38		0.014		ug/L	1		Chemours (TB3+)	Total/NA
Hydrolyzed PSDA	0.63		0.038		ug/L	1		Chemours (TB3+)	Total/NA
Hydro-PS Acid	0.15		0.0061		ug/L	1		Chemours (TB3+)	Total/NA
NVHOS	0.26		0.015		ug/L	1		Chemours (TB3+)	Total/NA
PEPA	1.2		0.020		ug/L	1		Chemours (TB3+)	Total/NA
PFMOAA	23		0.080		ug/L	1		Chemours (TB3+)	Total/NA
PFO2HxA	8.4		0.027		ug/L	1		Chemours (TB3+)	Total/NA
PFO3OA	3.0		0.039		ug/L	1		Chemours (TB3+)	Total/NA
PFO4DA	0.82		0.059		ug/L	1		Chemours (TB3+)	Total/NA
PMPA	3.8		0.62		ug/L	1		Chemours (TB3+)	Total/NA
R-EVE	0.37		0.072		ug/L	1		Chemours (TB3+)	Total/NA
R-PSDA	0.38		0.071		ug/L	1		Chemours (TB3+)	Total/NA

## Client Sample ID: Seep-C-EQBLK-ISCO-022721

## Lab Sample ID: 320-70652-3

No Detections.

## Client Sample ID: SEEP-C-FBLK-022721

## Lab Sample ID: 320-70652-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Sacramento

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: SEEP-C-Effluent-24-022721**

**Lab Sample ID: 320-70652-1**

**Date Collected: 02/27/21 16:00**

**Matrix: Water**

**Date Received: 03/02/21 11:00**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.017		0.017		ug/L		03/03/21 20:42	03/10/21 05:48	1
HFPO-DA	<0.081		0.081		ug/L		03/03/21 20:42	03/10/21 05:48	1
Hydro-EVE Acid	<0.014		0.014		ug/L		03/03/21 20:42	03/10/21 05:48	1
Hydrolyzed PSDA	<0.038		0.038		ug/L		03/03/21 20:42	03/10/21 05:48	1
Hydro-PS Acid	<0.0061		0.0061		ug/L		03/03/21 20:42	03/10/21 05:48	1
NVHOS	<0.015		0.015		ug/L		03/03/21 20:42	03/10/21 05:48	1
PEPA	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 05:48	1
PES	<0.0067		0.0067		ug/L		03/03/21 20:42	03/10/21 05:48	1
PFECA B	<0.027		0.027		ug/L		03/03/21 20:42	03/10/21 05:48	1
PFECA G	<0.048		0.048		ug/L		03/03/21 20:42	03/10/21 05:48	1
<b>PFMOAA</b>	<b>0.28</b>		0.080		ug/L		03/03/21 20:42	03/10/21 05:48	1
<b>PFO2HxA</b>	<b>0.083</b>		0.027		ug/L		03/03/21 20:42	03/10/21 05:48	1
PFO3OA	<0.039		0.039		ug/L		03/03/21 20:42	03/10/21 05:48	1
PFO4DA	<0.059		0.059		ug/L		03/03/21 20:42	03/10/21 05:48	1
PFO5DA	<0.078		0.078		ug/L		03/03/21 20:42	03/10/21 05:48	1
<b>PMPA</b>	<b>0.66</b>		0.62		ug/L		03/03/21 20:42	03/10/21 05:48	1
PS Acid	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 05:48	1
R-EVE	<0.072		0.072		ug/L		03/03/21 20:42	03/10/21 05:48	1
R-PSDA	<0.071		0.071		ug/L		03/03/21 20:42	03/10/21 05:48	1
R-PSDCA	<0.017		0.017		ug/L		03/03/21 20:42	03/10/21 05:48	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA	105		25 - 150				03/03/21 20:42	03/10/21 05:48	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: SEEP-C-Influent-24-022721**

**Lab Sample ID: 320-70652-2**

Date Collected: 02/27/21 16:00

Matrix: Water

Date Received: 03/02/21 11:00

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	0.065		0.017		ug/L		03/03/21 20:42	03/10/21 06:05	1
HFPO-DA	5.6		0.081		ug/L		03/03/21 20:42	03/10/21 06:05	1
Hydro-EVE Acid	0.38		0.014		ug/L		03/03/21 20:42	03/10/21 06:05	1
Hydrolyzed PSDA	0.63		0.038		ug/L		03/03/21 20:42	03/10/21 06:05	1
Hydro-PS Acid	0.15		0.0061		ug/L		03/03/21 20:42	03/10/21 06:05	1
NVHOS	0.26		0.015		ug/L		03/03/21 20:42	03/10/21 06:05	1
PEPA	1.2		0.020		ug/L		03/03/21 20:42	03/10/21 06:05	1
PES	<0.0067		0.0067		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFECA B	<0.027		0.027		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFECA G	<0.048		0.048		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFMOAA	23		0.080		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFO2HxA	8.4		0.027		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFO3OA	3.0		0.039		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFO4DA	0.82		0.059		ug/L		03/03/21 20:42	03/10/21 06:05	1
PFO5DA	<0.078		0.078		ug/L		03/03/21 20:42	03/10/21 06:05	1
PMPA	3.8		0.62		ug/L		03/03/21 20:42	03/10/21 06:05	1
PS Acid	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 06:05	1
R-EVE	0.37		0.072		ug/L		03/03/21 20:42	03/10/21 06:05	1
R-PSDA	0.38		0.071		ug/L		03/03/21 20:42	03/10/21 06:05	1
R-PSDCA	<0.017		0.017		ug/L		03/03/21 20:42	03/10/21 06:05	1
<b>Isotope Dilution</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<sup>13</sup> C3 HFPO-DA	109		25 - 150				03/03/21 20:42	03/10/21 06:05	1



# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: Seep-C-EQBLK-ISCO-022721**

**Lab Sample ID: 320-70652-3**

Date Collected: 02/27/21 16:45

Matrix: Water

Date Received: 03/02/21 11:00

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
HFPO-DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
NVHOS	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PEPA	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PES	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFECA B	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFECA G	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFMOAA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFO2HxA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFO3OA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFO4DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PFO5DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
PMPA	<0.010		0.010		ug/L		03/03/21 20:42	03/10/21 06:23	1
PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
R-EVE	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
R-PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
R-PSDCA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	102		25 - 150				03/03/21 20:42	03/10/21 06:23	1

# Client Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: SEEP-C-FBLK-022721**

**Lab Sample ID: 320-70652-4**

**Date Collected: 02/27/21 16:50**

**Matrix: Water**

**Date Received: 03/02/21 11:00**

**Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
HFPO-DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
NVHOS	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PEPA	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PES	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFECA B	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFECA G	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFMOAA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFO2HxA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFO3OA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFO4DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PFO5DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
PMPA	<0.010		0.010		ug/L		03/03/21 20:42	03/10/21 06:40	1
PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
R-EVE	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
R-PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
R-PSDCA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 06:40	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C3 HFPO-DA	106		25 - 150				03/03/21 20:42	03/10/21 06:40	1

# Default Detection Limits

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

### Prep: PFAS Prep

Analyte	RL	MDL	Units
EVE Acid	0.0020	0.00017	ug/L
HFPO-DA	0.0020	0.00081	ug/L
Hydro-EVE Acid	0.0020	0.00014	ug/L
Hydrolyzed PSDA	0.0020	0.00038	ug/L
Hydro-PS Acid	0.0020	0.000061	ug/L
NVHOS	0.0020	0.00015	ug/L
PEPA	0.020	0.00016	ug/L
PES	0.0020	0.000067	ug/L
PFECA B	0.0020	0.00027	ug/L
PFECA G	0.0020	0.00048	ug/L
PFMOAA	0.0020	0.00080	ug/L
PFO2HxA	0.0020	0.00027	ug/L
PFO3OA	0.0020	0.00039	ug/L
PFO4DA	0.0020	0.00059	ug/L
PFO5DA	0.0020	0.00078	ug/L
PMPA	0.010	0.0062	ug/L
PS Acid	0.0020	0.00020	ug/L
R-EVE	0.0020	0.00072	ug/L
R-PSDA	0.0020	0.00071	ug/L
R-PSDCA	0.0020	0.00017	ug/L

# Isotope Dilution Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	HFPODA (25-150)			
320-70652-1	SEEP-C-Effluent-24-022721	105			
320-70652-2	SEEP-C-Influent-24-022721	109			
320-70652-3	Seep-C-EQBLK-ISCO-022721	102			
320-70652-4	SEEP-C-FBLK-022721	106			
LCS 320-467237/2-A	Lab Control Sample	81			
LCSD 320-467237/3-A	Lab Control Sample Dup	78			
MB 320-467237/1-A	Method Blank	96			

**Surrogate Legend**  
HFPODA = 13C3 HFPO-DA

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+

**Lab Sample ID: MB 320-467237/1-A**

**Matrix: Water**

**Analysis Batch: 468770**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 467237**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
HFPO-DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
Hydro-EVE Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
Hydrolyzed PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
Hydro-PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
NVHOS	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PEPA	<0.020		0.020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PES	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFECA B	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFECA G	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFMOAA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFO2HxA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFO3OA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFO4DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PFO5DA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
PMPA	<0.010		0.010		ug/L		03/03/21 20:42	03/10/21 00:12	1
PS Acid	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
R-EVE	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
R-PSDA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
R-PSDCA	<0.0020		0.0020		ug/L		03/03/21 20:42	03/10/21 00:12	1
		<b>MB</b>	<b>MB</b>						
<b>Isotope Dilution</b>		<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
13C3 HFPO-DA		96		25 - 150			03/03/21 20:42	03/10/21 00:12	1

**Lab Sample ID: LCS 320-467237/2-A**

**Matrix: Water**

**Analysis Batch: 469973**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 467237**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits	%Rec.
HFPO-DA	0.200	0.212		ug/L		106	70 - 130	
Hydro-EVE Acid	0.200	0.150		ug/L		75	70 - 130	
Hydrolyzed PSDA	0.200	0.186		ug/L		93	50 - 150	
Hydro-PS Acid	0.200	0.177		ug/L		88	70 - 130	
NVHOS	0.200	0.183		ug/L		91	70 - 130	
PEPA	0.200	0.176		ug/L		88	70 - 130	
PES	0.200	0.191		ug/L		95	70 - 130	
PFECA B	0.200	0.186		ug/L		93	70 - 130	
PFECA G	0.200	0.163		ug/L		82	70 - 130	
PFMOAA	0.200	0.227		ug/L		113	70 - 130	
PFO2HxA	0.200	0.208		ug/L		104	70 - 130	
PFO3OA	0.200	0.210		ug/L		105	70 - 130	
PFO4DA	0.200	0.136		ug/L		68	50 - 150	
PFO5DA	0.200	0.156		ug/L		78	50 - 150	
PMPA	0.200	0.202		ug/L		101	70 - 130	
PS Acid	0.200	0.178		ug/L		89	70 - 130	
R-EVE	0.200	0.207		ug/L		104	50 - 150	
R-PSDA	0.200	0.170		ug/L		85	50 - 150	
R-PSDCA	0.200	0.139		ug/L		70	70 - 130	

Eurofins TestAmerica, Sacramento

# QC Sample Results

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Method: Chemours (TB3+) - Fluoroproducts Analytical Method – Table 3+ (Continued)

<i>Isotope Dilution</i>	<i>LCS</i>	<i>LCS</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	81		25 - 150

**Lab Sample ID: LCSD 320-467237/3-A**  
**Matrix: Water**  
**Analysis Batch: 469973**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 467237**

<b>Analyte</b>	<b>Spike</b>	<b>LCSD</b>	<b>LCSD</b>	<b>Unit</b>	<b>D</b>	<b>%Rec</b>	<b>%Rec.</b>	<b>RPD</b>	<b>RPD</b>	<b>Limit</b>
	<b>Added</b>	<b>Result</b>	<b>Qualifier</b>				<b>Limits</b>	<b>RPD</b>		
EVE Acid	0.200	0.161		ug/L		81	70 - 130	11		25
HFPO-DA	0.200	0.228		ug/L		114	70 - 130	7		25
Hydro-EVE Acid	0.200	0.148		ug/L		74	70 - 130	1		25
Hydrolyzed PSDA	0.200	0.204		ug/L		102	50 - 150	9		25
Hydro-PS Acid	0.200	0.168		ug/L		84	70 - 130	5		25
NVHOS	0.200	0.172		ug/L		86	70 - 130	6		25
PEPA	0.200	0.158		ug/L		79	70 - 130	11		25
PES	0.200	0.171		ug/L		86	70 - 130	11		25
PFECA B	0.200	0.178		ug/L		89	70 - 130	4		25
PFECA G	0.200	0.146		ug/L		73	70 - 130	11		25
PFMOAA	0.200	0.212		ug/L		106	70 - 130	7		25
PFO2HxA	0.200	0.190		ug/L		95	70 - 130	9		25
PFO3OA	0.200	0.178		ug/L		89	70 - 130	17		25
PFO4DA	0.200	0.122		ug/L		61	50 - 150	10		25
PFO5DA	0.200	0.128		ug/L		64	50 - 150	19		25
PMPA	0.200	0.186		ug/L		93	70 - 130	8		25
PS Acid	0.200	0.166		ug/L		83	70 - 130	7		25
R-EVE	0.200	0.220		ug/L		110	50 - 150	6		25
R-PSDA	0.200	0.188		ug/L		94	50 - 150	10		25
R-PSDCA	0.200	0.143		ug/L		71	70 - 130	3		25

<i>Isotope Dilution</i>	<i>LCSD</i>	<i>LCSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
<i>13C3 HFPO-DA</i>	78		25 - 150

# QC Association Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## LCMS

### Prep Batch: 467237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70652-1	SEEP-C-Effluent-24-022721	Total/NA	Water	PFAS Prep	
320-70652-2	SEEP-C-Influent-24-022721	Total/NA	Water	PFAS Prep	
320-70652-3	Seep-C-EQBLK-ISCO-022721	Total/NA	Water	PFAS Prep	
320-70652-4	SEEP-C-FBLK-022721	Total/NA	Water	PFAS Prep	
MB 320-467237/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-467237/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
LCSD 320-467237/3-A	Lab Control Sample Dup	Total/NA	Water	PFAS Prep	

### Analysis Batch: 468770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
320-70652-1	SEEP-C-Effluent-24-022721	Total/NA	Water	Chemours (TB3+)	467237
320-70652-2	SEEP-C-Influent-24-022721	Total/NA	Water	Chemours (TB3+)	467237
320-70652-3	Seep-C-EQBLK-ISCO-022721	Total/NA	Water	Chemours (TB3+)	467237
320-70652-4	SEEP-C-FBLK-022721	Total/NA	Water	Chemours (TB3+)	467237
MB 320-467237/1-A	Method Blank	Total/NA	Water	Chemours (TB3+)	467237

### Analysis Batch: 469973

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 320-467237/2-A	Lab Control Sample	Total/NA	Water	Chemours (TB3+)	467237
LCSD 320-467237/3-A	Lab Control Sample Dup	Total/NA	Water	Chemours (TB3+)	467237

# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: SEEP-C-Effluent-24-022721**

**Lab Sample ID: 320-70652-1**

Date Collected: 02/27/21 16:00

Matrix: Water

Date Received: 03/02/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			468770	03/10/21 05:48	GMK	TAL SAC

**Client Sample ID: SEEP-C-Influent-24-022721**

**Lab Sample ID: 320-70652-2**

Date Collected: 02/27/21 16:00

Matrix: Water

Date Received: 03/02/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			0.025 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			468770	03/10/21 06:05	GMK	TAL SAC

**Client Sample ID: Seep-C-EQBLK-ISCO-022721**

**Lab Sample ID: 320-70652-3**

Date Collected: 02/27/21 16:45

Matrix: Water

Date Received: 03/02/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			468770	03/10/21 06:23	GMK	TAL SAC

**Client Sample ID: SEEP-C-FBLK-022721**

**Lab Sample ID: 320-70652-4**

Date Collected: 02/27/21 16:50

Matrix: Water

Date Received: 03/02/21 11:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			468770	03/10/21 06:40	GMK	TAL SAC

**Client Sample ID: Method Blank**

**Lab Sample ID: MB 320-467237/1-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			468770	03/10/21 00:12	GMK	TAL SAC

**Client Sample ID: Lab Control Sample**

**Lab Sample ID: LCS 320-467237/2-A**

Date Collected: N/A

Matrix: Water

Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			469973	03/13/21 07:41	JY1	TAL SAC



# Lab Chronicle

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

**Client Sample ID: Lab Control Sample Dup**

**Lab Sample ID: LCSD 320-467237/3-A**

**Date Collected: N/A**

**Matrix: Water**

**Date Received: N/A**

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dil Factor</u>	<u>Initial Amount</u>	<u>Final Amount</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Prep	PFAS Prep			2.50 mL	5.00 mL	467237	03/03/21 20:42	FX	TAL SAC
Total/NA	Analysis	Chemours (TB3+)		1			469973	03/13/21 07:59	JY1	TAL SAC

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Accreditation/Certification Summary

Client: The Chemours Company FC, LLC  
 Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

## Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-21
Arkansas DEQ	State	88-0691	06-17-21
California	State	2897	02-01-23
Colorado	State	CA0004	08-31-21
Connecticut	State	PH-0691	06-30-21
Florida	NELAP	E87570	06-30-21
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-17-21
Kansas	NELAP	E-10375	02-01-21 *
Louisiana	NELAP	01944	06-30-21
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA000442021-2	07-31-21
New Hampshire	NELAP	2997	04-18-21
New Jersey	NELAP	CA005	06-30-21
New York	NELAP	11666	04-01-21
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-29-22
Pennsylvania	NELAP	68-01272	03-31-21
Texas	NELAP	T104704399-19-13	06-01-21
US Fish & Wildlife	US Federal Programs	58448	07-31-21
USDA	US Federal Programs	P330-18-00239	07-31-21
Utah	NELAP	CA000442019-01	02-28-21 *
Vermont	State	VT-4040	04-16-21
Virginia	NELAP	460278	03-14-21
Washington	State	C581	05-05-21
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-21
Wyoming	State Program	8TMS-L	01-28-19 *

\* Accreditation/Certification renewal pending - accreditation/certification considered valid.

# Method Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

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<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
Chemours (TB3+)	Fluoroproducts Analytical Method – Table 3+	Client	TAL SAC
PFAS Prep	Preparation, Direct Inject PFAS	TAL-SAC	TAL SAC

**Protocol References:**

Client = Client derived Standard Operating Procedure

TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

**Laboratory References:**

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

# Sample Summary

Client: The Chemours Company FC, LLC  
Project/Site: FAY-Seep Flow Through Cell Sampling 2021

Job ID: 320-70652-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
320-70652-1	SEEP-C-Effluent-24-022721	Water	02/27/21 16:00	03/02/21 11:00	
320-70652-2	SEEP-C-Influent-24-022721	Water	02/27/21 16:00	03/02/21 11:00	
320-70652-3	Seep-C-EQBLK-ISCO-022721	Water	02/27/21 16:45	03/02/21 11:00	
320-70652-4	SEEP-C-FBLK-022721	Water	02/27/21 16:50	03/02/21 11:00	

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468521

Lab Sample ID: IC 320-468521/2 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 14:45 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.34	Assign Peak	fariasa	03/09/21 06:32
R-PSDA	6.64	Baseline	fariasa	03/09/21 06:33
PMPA	6.88	Assign Peak	fariasa	03/09/21 06:32
NVHOS	7.26	Baseline	fariasa	03/09/21 06:33
PEPA	8.43	Assign Peak	fariasa	03/09/21 06:33
HFPO-DA	9.30	Baseline	fariasa	03/09/21 06:33
Perfluoroheptanoic acid	9.70	Baseline	fariasa	03/09/21 06:33

Lab Sample ID: IC 320-468521/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 15:03 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.35	Assign Peak	fariasa	03/09/21 06:34
R-PSDA	6.64	Baseline	fariasa	03/09/21 06:34
PMPA	6.90	Baseline	fariasa	03/09/21 06:34
NVHOS	7.26	Baseline	fariasa	03/09/21 06:34

Lab Sample ID: IC 320-468521/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 15:21 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.40	Incomplete Integration	fariasa	03/09/21 06:34
R-PSDA	6.61	Baseline	fariasa	03/09/21 06:35

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468521

Lab Sample ID: IC 320-468521/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 15:38 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.08	Assign Peak	fariasa	03/09/21 06:35
R-PSDA	6.57	Baseline	fariasa	03/09/21 06:35

Lab Sample ID: IC 320-468521/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 15:56 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.33	Incomplete Integration	fariasa	03/09/21 04:09

Lab Sample ID: IC 320-468521/8 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 16:32 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.35	Incomplete Integration	fariasa	03/09/21 06:36

Lab Sample ID: IC 320-468521/10 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 17:07 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.26	Incomplete Integration	fariasa	03/09/21 06:36

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468521

Lab Sample ID: IC 320-468521/12 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 17:42 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.74	Assign Peak	fariasa	03/09/21 06:37
13C3 HFPO-DA	9.17	Assign Peak	fariasa	03/09/21 06:36
13C4 PFHpA	9.60	Assign Peak	fariasa	03/09/21 06:36

Lab Sample ID: IC 320-468521/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 18:17 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.28	Incomplete Integration	fariasa	03/09/21 06:37
13C3 HFPO-DA	9.16	Assign Peak	fariasa	03/09/21 06:37
13C4 PFHpA	9.59	Assign Peak	fariasa	03/09/21 06:37

Lab Sample ID: IC 320-468521/15 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 18:35 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.15	Assign Peak	fariasa	03/09/21 06:38
13C3 HFPO-DA	9.16	Assign Peak	fariasa	03/09/21 06:37
13C4 PFHpA	9.59	Assign Peak	fariasa	03/09/21 06:37

Lab Sample ID: ICV 320-468521/17 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/08/21 19:10 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_0 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.24	Assign Peak	fariasa	03/09/21 06:38
13C3 HFPO-DA	9.13	Assign Peak	fariasa	03/09/21 06:38
13C4 PFHpA	9.56	Assign Peak	fariasa	03/09/21 06:38

Chemours (TB3+)

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468770

Lab Sample ID: CCV 320-468770/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/09/21 23:37 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_029 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.03	Baseline	ruangyots akuld	03/10/21 15:13
13C3 HFPO-DA	9.13	Peak assignment corrected	ruangyots akuld	03/10/21 15:12
13C4 PFHpA	9.56	Peak assignment corrected	ruangyots akuld	03/10/21 15:12

Lab Sample ID: MB 320-467237/1-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/10/21 00:12 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_031 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	6.95	Baseline	ruangyots akuld	03/10/21 15:44
13C3 HFPO-DA	9.13	Peak assignment corrected	ruangyots akuld	03/10/21 15:43

Lab Sample ID: CCV 320-468770/14 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/10/21 03:26 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_042 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.14	Assign Peak	kwongg	03/10/21 11:24
13C3 HFPO-DA	9.24	Assign Peak	kwongg	03/10/21 11:24



LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468770

Lab Sample ID: 320-70652-1 Client Sample ID: SEEP-C-Effluent-24-022721

Date Analyzed: 03/10/21 05:48 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_050 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.12	Assign Peak	kwongg	03/10/21 12:14
PMPA	7.11	Assign Peak	kwongg	03/10/21 12:14
PFO2HxA	7.83	Assign Peak	kwongg	03/10/21 12:14
13C3 HFPO-DA	9.24	Assign Peak	kwongg	03/10/21 12:14

Lab Sample ID: 320-70652-2 Client Sample ID: SEEP-C-Influent-24-022721

Date Analyzed: 03/10/21 06:05 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_051 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.12	Assign Peak	kwongg	03/10/21 12:15
R-PSDA	6.55	Baseline	kwongg	03/10/21 12:15
13C3 HFPO-DA	9.25	Assign Peak	kwongg	03/10/21 12:14

Lab Sample ID: 320-70652-3 Client Sample ID: Seep-C-EQBLK-ISCO-022721

Date Analyzed: 03/10/21 06:23 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_052 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
13C3 HFPO-DA	9.24	Assign Peak	kwongg	03/10/21 12:32

Lab Sample ID: 320-70652-4 Client Sample ID: SEEP-C-FBLK-022721

Date Analyzed: 03/10/21 06:40 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_053 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PMPA	7.09	Assign Peak	kwongg	03/10/21 12:32

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 468770

Lab Sample ID: CCV 320-468770/27 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/10/21 07:16 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_055 GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.10	Assign Peak	kwongg	03/10/21 12:33
13C3 HFPO-DA	9.25	Assign Peak	kwongg	03/10/21 12:33

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 469371

Lab Sample ID: IC 320-469371/3 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 12:14 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.24	Assign Peak	yu	03/12/21 11:30
R-EVE	6.39	Baseline	yu	03/12/21 11:31
R-PSDA	6.45	Baseline	yu	03/12/21 11:31
PMPA	6.78	Baseline	yu	03/12/21 11:31

Lab Sample ID: IC 320-469371/4 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 12:32 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.08	Assign Peak	yu	03/11/21 15:44
R-PSDA	6.43	Baseline	yu	03/11/21 15:40
PMPA	6.76	Baseline	yu	03/11/21 15:40
NVHOS	7.14	Baseline	yu	03/11/21 15:40

Lab Sample ID: IC 320-469371/5 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 12:50 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.30	Incomplete Integration	yu	03/11/21 15:41
R-PSDA	6.45	Baseline	yu	03/11/21 15:42
PMPA	6.81	Baseline	yu	03/11/21 15:46

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 469371

Lab Sample ID: IC 320-469371/6 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 13:07 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.64	Assign Peak	yu	03/11/21 15:42
R-EVE	6.29	Isomers	yu	03/11/21 15:42
R-PSDA	6.35	Isomers	yu	03/11/21 15:42
PMPA	6.68	Baseline	yu	03/11/21 15:46
NVHOS	7.09	Baseline	yu	03/11/21 15:42

Lab Sample ID: IC 320-469371/7 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 13:25 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.10	Incomplete Integration	yu	03/11/21 15:48
R-PSDA	6.43	Baseline	yu	03/11/21 15:49

Lab Sample ID: IC 320-469371/9 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 14:00 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.96	Assign Peak	yu	03/11/21 16:23
R-PSDA	6.41	Baseline	yu	03/11/21 16:24

Lab Sample ID: IC 320-469371/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 14:36 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.92	Assign Peak	yu	03/11/21 16:56
R-EVE	6.39	Isomers	yu	03/11/21 16:56

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 469371

Lab Sample ID: IC 320-469371/13 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 15:11 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.31	Incomplete Integration	yuj	03/11/21 17:34

Lab Sample ID: IC 320-469371/15 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 15:46 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.29	Incomplete Integration	kwongg	03/11/21 16:36

Lab Sample ID: IC 320-469371/16 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 16:03 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.78	Assign Peak	kwongg	03/11/21 16:42

Lab Sample ID: ICV 320-469371/18 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/11/21 16:39 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.78	Assign Peak	kwongg	03/11/21 17:00
R-EVE	6.37	Incomplete Integration	kwongg	03/11/21 17:00

LCMS MANUAL INTEGRATION SUMMARY

Lab Name: Eurofins TestAmerica, Sacram Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Analysis Batch Number: 469973

Lab Sample ID: CCV 320-469973/1 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/13/21 05:56 Lab File ID: 2021.03.12\_A12\_TB3\_C\_002. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.24	Incomplete Integration	yuj	03/13/21 09:41
R-EVE	6.45	Isomers	yuj	03/13/21 09:42

Lab Sample ID: LCS 320-467237/2-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/13/21 07:41 Lab File ID: 2021.03.12\_A12\_TB3\_C\_008. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	3.89	Assign Peak	yuj	03/13/21 11:05
R-EVE	6.37	Isomers	yuj	03/13/21 11:05
R-PSDA	6.41	Isomers	yuj	03/13/21 11:05

Lab Sample ID: LCSD 320-467237/3-A Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/13/21 07:59 Lab File ID: 2021.03.12\_A12\_TB3\_C\_009. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.00	Incomplete Integration	yuj	03/13/21 11:06
R-EVE	6.37	Isomers	yuj	03/13/21 11:06
R-PSDA	6.41	Isomers	yuj	03/13/21 11:06

Lab Sample ID: CCV 320-469973/11 Client Sample ID: \_\_\_\_\_

Date Analyzed: 03/13/21 08:52 Lab File ID: 2021.03.12\_A12\_TB3\_C\_012. GC Column: GeminiC18 3x1 ID: 3(mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PFMOAA	4.13	Incomplete Integration	yuj	03/13/21 11:17

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCMTB3_SU_00022</b>	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
.LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
<b>LCTB3_LLCCV_00028</b>	07/10/21	03/01/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00068	150 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.075 ug/L
							PS Acid	0.075 ug/L
							Hydro-PS Acid	0.075 ug/L
							R-PSDA	0.075 ug/L
							Hydrolyzed PSDA	0.075 ug/L
							R-PSDCA	0.075 ug/L
							EVE Acid	0.075 ug/L
							Hydro-EVE Acid	0.075 ug/L
							NVHOS	0.075 ug/L
							PEPA	0.075 ug/L
							PES	0.075 ug/L
							PFECA B	0.075 ug/L
							PFECA G	0.075 ug/L
							PFMOAA	0.075 ug/L
							PFO2HxA	0.075 ug/L
							PFO3OA	0.075 ug/L
							PFO4DA	0.075 ug/L
							PFO5DA	0.075 ug/L
							PMPA	0.075 ug/L
							R-EVE	0.075 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
..LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	0.5 ug/mL
..LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00017	11/13/23		WELLINGTON, Lot HFPODA1120				(Purchased Reagent)	HFPO-DA
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLCCV_00041</b>	07/10/21	03/08/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00068	150 uL	HFPO-DA	0.075 ug/L
							PS Acid	0.075 ug/L
							Hydro-PS Acid	0.075 ug/L
							R-PSDA	0.075 ug/L
							Hydrolyzed PSDA	0.075 ug/L
							R-PSDCA	0.075 ug/L
							EVE Acid	0.075 ug/L
							Hydro-EVE Acid	0.075 ug/L
							NVHOS	0.075 ug/L
							PEPA	0.075 ug/L
							PES	0.075 ug/L
							PFECA B	0.075 ug/L
							PFECA G	0.075 ug/L
							PFM0AA	0.075 ug/L
							PFO2HxA	0.075 ug/L
PFO30A	0.075 ug/L							
PFO4DA	0.075 ug/L							
PFO5DA	0.075 ug/L							
PMPA	0.075 ug/L							
R-EVE	0.075 ug/L							
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHPA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLICV_00049</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_ICVSP_00015	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00015	08/23/21	02/28/21	Methanol, Lot 204519	10 mL	LCTB3_ICVIM2_00011	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00011	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCTB3_ICVIM_00009	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_ICVIM_00009	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
LCTB3_LLICV_00050	07/10/21	03/10/21	MeOH/H2O, Lot 206204	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCTB3_ICVSP_00015	200 uL	HFPO-DA	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25		Wellington Laboratories, Lot M4PFHFA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_ICVSP_00015	08/23/21	02/28/21	Methanol, Lot 204519	10 mL	LCTB3_ICVIM2_00011	1 mL	HFPO-DA	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_ICVIM2_00011	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration	
					Reagent ID	Volume Added			
					LCTB3_ICVIM_00009	2 mL	PS Acid	50 ug/L	
							Hydro-PS Acid	50 ug/L	
							R-PSDA	50 ug/L	
							Hydrolyzed PSDA	50 ug/L	
							R-PSDCA	50 ug/L	
							EVE Acid	50 ug/L	
							Hydro-EVE Acid	50 ug/L	
							NVHOS	50 ug/L	
							PEPA	50 ug/L	
							PES	50 ug/L	
							PFECA B	50 ug/L	
							PFECA G	50 ug/L	
							PFMOAA	50 ug/L	
							PFO2HxA	50 ug/L	
							PFO3OA	50 ug/L	
							PFO4DA	50 ug/L	
							PFO5DA	50 ug/L	
							PMPA	50 ug/L	
							R-EVE	50 ug/L	
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120				(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCTB3_ICVIM_00009	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L	
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L	
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L	
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L	
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L	
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L	
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L	
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L	
					LCPEPA_00002	100 uL	PEPA	5000 ug/L	
					LCPEPES_00001	100 uL	PES	5000 ug/L	
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L	
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L	
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L	
					LCPPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L	
					LCPPFO3OA_00002	100 uL	PFO3OA	5000 ug/L	
					LCPPFO4DA_00002	100 uL	PFO4DA	5000 ug/L	
					LCPPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L	
					LCPPMPA_00002	100 uL	PMPA	5000 ug/L	
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L	
....LCBP1_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS_00001	01/23/24		Chemours, Lot NA				(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA_00002	01/23/24		Chemours, Lot NA				(Purchased Reagent)	PEPA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD1_00060</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00069	100 uL	HFPO-DA	0.001 ug/L
							Perfluoroheptanoic acid	0.001 ug/L
							PS Acid	0.001 ug/L
							Hydro-PS Acid	0.001 ug/L
							R-PSDA	0.001 ug/L
							Hydrolyzed PSDA	0.001 ug/L
							R-PSDCA	0.001 ug/L
							EVE Acid	0.001 ug/L
							Hydro-EVE Acid	0.001 ug/L
							NVHOS	0.001 ug/L
							PEPA	0.001 ug/L
							PES	0.001 ug/L
							PFECA B	0.001 ug/L
							PFECA G	0.001 ug/L
							PFM0AA	0.001 ug/L
							PFO2HxA	0.001 ug/L
							PFO30A	0.001 ug/L
							PFO4DA	0.001 ug/L
		PFO5DA	0.001 ug/L					
		PMPA	0.001 ug/L					
		R-EVE	0.001 ug/L					
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00069	08/23/21	03/01/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA_00017	11/13/23		WELLINGTON, Lot HFPODA1120				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA_00024	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFPECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFPECA_G_00001	100 uL	PFECA G	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFM0AA 00002	100 uL	PFM0AA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO30A 00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD10_00043</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00068	2000 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	1 ug/L
							Perfluoroheptanoic acid	1 ug/L
							PS Acid	1 ug/L
							Hydro-PS Acid	1 ug/L
							R-PSDA	1 ug/L
							Hydrolyzed PSDA	1 ug/L
							R-PSDCA	1 ug/L
							EVE Acid	1 ug/L
							Hydro-EVE Acid	1 ug/L
							NVHOS	1 ug/L
							PEPA	1 ug/L
							PES	1 ug/L
							PFECA B	1 ug/L
							PFECA G	1 ug/L
							PFM0AA	1 ug/L
							PFO2HxA	1 ug/L
							PFO30A	1 ug/L
							PFO4DA	1 ug/L
							PFO5DA	1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PMPA	1 ug/L
							R-EVE	1 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25	Wellington Laboratories, Lot M4PFHPA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFMOAA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFMOAA 00002	100 uL	PFO30A	5000 ug/L
					LCPFMOAA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFMOAA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO30A	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFMOAA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
LCTB3_LLSTD2_00048	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00069	250 uL	HFPO-DA	0.0025 ug/L
							Perfluoroheptanoic acid	0.0025 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PS Acid	0.0025 ug/L
							Hydro-PS Acid	0.0025 ug/L
							R-PSDA	0.0025 ug/L
							Hydrolyzed PSDA	0.0025 ug/L
							R-PSDCA	0.0025 ug/L
							EVE Acid	0.0025 ug/L
							Hydro-EVE Acid	0.0025 ug/L
							NVHOS	0.0025 ug/L
							PEPA	0.0025 ug/L
							PES	0.0025 ug/L
							PFECA B	0.0025 ug/L
							PFECA G	0.0025 ug/L
							PFMOAA	0.0025 ug/L
							PFO2HxA	0.0025 ug/L
							PFO3OA	0.0025 ug/L
							PFO4DA	0.0025 ug/L
							PFO5DA	0.0025 ug/L
							PMPA	0.0025 ug/L
							R-EVE	0.0025 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C4 PFHpA	5 ug/L
					LCM4PFHPA 00035	500 uL	13C3 HFPO-DA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C4 PFHpA	0.5 ug/mL
..LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
.LCTB3_SP_00069	08/23/21	03/01/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	0.5 mL	13C4 PFHpA	50 ug/mL
							HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFO-DA_00017	200 uL	HFPO-DA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFHpA 00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
		PFO5DA	50 ug/L					
		PMPA	50 ug/L					
		R-EVE	50 ug/L					
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120		(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
		LCR-EVE 00001	100 uL	R-EVE	5000 ug/L			
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD3_00048</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00069	500 uL	HFPO-DA	0.005 ug/L
							Perfluoroheptanoic acid	0.005 ug/L
							PS Acid	0.005 ug/L
							Hydro-PS Acid	0.005 ug/L
							R-PSDA	0.005 ug/L
							Hydrolyzed PSDA	0.005 ug/L
							R-PSDCA	0.005 ug/L
							EVE Acid	0.005 ug/L
							Hydro-EVE Acid	0.005 ug/L
							NVHOS	0.005 ug/L
							PEPA	0.005 ug/L
							PES	0.005 ug/L
							PFECA B	0.005 ug/L
							PFECA G	0.005 ug/L
							PFMOAA	0.005 ug/L
		PFO2HxA	0.005 ug/L					
		PFO3OA	0.005 ug/L					
		PFO4DA	0.005 ug/L					
		PFO5DA	0.005 ug/L					
		PMPA	0.005 ug/L					
		R-EVE	0.005 ug/L					
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA 00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA 00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00069	08/23/21	03/01/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
...LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120				HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD4_00047</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00069	1000 uL	HFPO-DA	0.01 ug/L
							Perfluoroheptanoic acid	0.01 ug/L
							PS Acid	0.01 ug/L
							Hydro-PS Acid	0.01 ug/L
							R-PSDA	0.01 ug/L
							Hydrolyzed PSDA	0.01 ug/L
							R-PSDCA	0.01 ug/L
							EVE Acid	0.01 ug/L
							Hydro-EVE Acid	0.01 ug/L
							NVHOS	0.01 ug/L
							PEPA	0.01 ug/L
							PES	0.01 ug/L
							PFECA B	0.01 ug/L
							PFECA G	0.01 ug/L
							PFMOAA	0.01 ug/L
							PFO2HxA	0.01 ug/L
							PFO3OA	0.01 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO4DA	0.01 ug/L
							PFO5DA	0.01 ug/L
							PMPA	0.01 ug/L
							R-EVE	0.01 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHFA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020			(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHFA_00035	09/29/25	Wellington Laboratories, Lot M4PFHFA0920			(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00069	08/23/21	03/01/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO30A	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHPA 00024	07/09/25		Wellington Laboratories, Lot PFHPA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA_B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G 00001	100 uL	PFECA G	5000 ug/L
					LCPFM0AA 00002	100 uL	PFM0AA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO30A 00002	100 uL	PFO30A	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA_B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA_G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFM0AA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFM0AA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO30A 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO30A	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL
LCTB3_LLSTD5_00057	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHPA	0.25 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCTB3_SP_00069	2500 uL	HFPO-DA	0.025 ug/L
							Perfluoroheptanoic acid	0.025 ug/L
							PS Acid	0.025 ug/L
							Hydro-PS Acid	0.025 ug/L
							R-PSDA	0.025 ug/L
							Hydrolyzed PSDA	0.025 ug/L
							R-PSDCA	0.025 ug/L
							EVE Acid	0.025 ug/L
							Hydro-EVE Acid	0.025 ug/L
							NVHOS	0.025 ug/L
							PEPA	0.025 ug/L
							PES	0.025 ug/L
							PFECA B	0.025 ug/L
							PFECA G	0.025 ug/L
							PFMOAA	0.025 ug/L
							PFO2HxA	0.025 ug/L
PFO3OA	0.025 ug/L							
PFO4DA	0.025 ug/L							
PFO5DA	0.025 ug/L							
PMPA	0.025 ug/L							
R-EVE	0.025 ug/L							
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA 00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
..LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00069	08/23/21	03/01/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	0.5 mL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L
							PFO2HxA	0.1 ug/L
							PFO3OA	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	R-EVE	0.1 ug/L
					LCPFHpA 00024	200 uL	HFPO-DA	50 ug/L
					LCTB3_IM_00022	2 mL	Perfluoroheptanoic acid	50 ug/L
							PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
PFMOAA	50 ug/L							
PFO2HxA	50 ug/L							
PFO3OA	50 ug/L							
PFO4DA	50 ug/L							
PFO5DA	50 ug/L							
PMPA	50 ug/L							
R-EVE	50 ug/L							
...LCHFPO-DA 00017	11/13/23	WELLINGTON, Lot HFPODA1120			(Purchased Reagent)		HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25	Wellington Laboratories, Lot PFHpA0620			(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
					....LCBP1 00001	01/23/24	Chemours, Lot NA	
....LCBP2 00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24	Chemours, Lot NA			(Purchased Reagent)		R-PSDCA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
LCTB3_LLSTD6_00090	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00068	100 uL	HFPO-DA	0.05 ug/L
							Perfluoroheptanoic acid	0.05 ug/L
							PS Acid	0.05 ug/L
							Hydro-PS Acid	0.05 ug/L
							R-PSDA	0.05 ug/L
							Hydrolyzed PSDA	0.05 ug/L
							R-PSDCA	0.05 ug/L
							EVE Acid	0.05 ug/L
							Hydro-EVE Acid	0.05 ug/L
							NVHOS	0.05 ug/L
							PEPA	0.05 ug/L
							PES	0.05 ug/L
							PFECA B	0.05 ug/L
							PFECA G	0.05 ug/L
							PFMOAA	0.05 ug/L
		PFO2HxA	0.05 ug/L					
		PFO3OA	0.05 ug/L					
		PFO4DA	0.05 ug/L					
		PFO5DA	0.05 ug/L					
		PMPA	0.05 ug/L					
		R-EVE	0.05 ug/L					
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
...LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120				(Purchased Reagent) HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620				(Purchased Reagent) Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD7_00443</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00068	200 uL	HFPO-DA	0.1 ug/L
							Perfluoroheptanoic acid	0.1 ug/L
							PS Acid	0.1 ug/L
							Hydro-PS Acid	0.1 ug/L
							R-PSDA	0.1 ug/L
							Hydrolyzed PSDA	0.1 ug/L
							R-PSDCA	0.1 ug/L
							EVE Acid	0.1 ug/L
							Hydro-EVE Acid	0.1 ug/L
							NVHOS	0.1 ug/L
							PEPA	0.1 ug/L
							PES	0.1 ug/L
							PFECA B	0.1 ug/L
							PFECA G	0.1 ug/L
							PFMOAA	0.1 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO2HxA	0.1 ug/L
							PFO30A	0.1 ug/L
							PFO4DA	0.1 ug/L
							PFO5DA	0.1 ug/L
							PMPA	0.1 ug/L
							R-EVE	0.1 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO30A	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA_00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA_00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120			(Purchased Reagent)	HFPO-DA	50 ug/mL
...LCPFHPA 00024	07/09/25		Wellington Laboratories, Lot PFHPA0620			(Purchased Reagent)	Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL				
					LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMCAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFECA G	1000 ug/mL
....LCPFMCAA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA			(Purchased Reagent)	PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA			(Purchased Reagent)	R-EVE	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
<b>LCTB3_LLSTD8_00046</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
					LCTB3_SP_00068	500 uL	13C4 PFHpA	0.25 ug/L
							HFPO-DA	0.25 ug/L
							Perfluoroheptanoic acid	0.25 ug/L
							PS Acid	0.25 ug/L
							Hydro-PS Acid	0.25 ug/L
							R-PSDA	0.25 ug/L
							Hydrolyzed PSDA	0.25 ug/L
							R-PSDCA	0.25 ug/L
							EVE Acid	0.25 ug/L
							Hydro-EVE Acid	0.25 ug/L
							NVHOS	0.25 ug/L
							PEPA	0.25 ug/L
							PES	0.25 ug/L
							PFECA B	0.25 ug/L
							PFECA G	0.25 ug/L
							PFMOAA	0.25 ug/L
PFO2HxA	0.25 ug/L							
PFO3OA	0.25 ug/L							
PFO4DA	0.25 ug/L							
PFO5DA	0.25 ug/L							
PMPA	0.25 ug/L							
R-EVE	0.25 ug/L							
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23	WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL	
..LCM4PFHPA_00035	09/29/25	Wellington Laboratories, Lot M4PFHpA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL	
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
PFO4DA	5 ug/L							

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
..LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120				HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA_00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L
					LCPEPA_00002	100 uL	PEPA	5000 ug/L
					LCPEPES_00001	100 uL	PES	5000 ug/L
					LCPFECA_B_00001	100 uL	PFECA B	5000 ug/L
					LCPFECA_G_00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA_00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA_00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA_00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA_00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA_00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA_00002	100 uL	PMPA	5000 ug/L
					LCR-EVE_00001	100 uL	R-EVE	5000 ug/L
....LCBP1_00001	01/23/24		Chemours, Lot NA				PS Acid	1000 ug/mL
....LCBP2_00001	01/23/24		Chemours, Lot NA				Hydro-PS Acid	1000 ug/mL
....LCBP4_00001	01/23/24		Chemours, Lot NA				R-PSDA	1000 ug/mL

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
....LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_LLSTD9_00044</b>	07/10/21	03/07/21	MeOH/H2O, Lot 204519	10 mL	LCMTB3_SU_00023	500 uL	13C3 HFPO-DA	0.25 ug/L
							13C4 PFHpA	0.25 ug/L
					LCTB3_SP_00068	1000 uL	HFPO-DA	0.5 ug/L
							Perfluoroheptanoic acid	0.5 ug/L
							PS Acid	0.5 ug/L
							Hydro-PS Acid	0.5 ug/L
							R-PSDA	0.5 ug/L
							Hydrolyzed PSDA	0.5 ug/L
							R-PSDCA	0.5 ug/L
							EVE Acid	0.5 ug/L
							Hydro-EVE Acid	0.5 ug/L
							NVHOS	0.5 ug/L
							PEPA	0.5 ug/L
							PES	0.5 ug/L
							PFECA B	0.5 ug/L
							PFECA G	0.5 ug/L
							PFMOAA	0.5 ug/L
							PFO2HxA	0.5 ug/L
							PFO3OA	0.5 ug/L
							PFO4DA	0.5 ug/L
							PFO5DA	0.5 ug/L
							PMPA	0.5 ug/L
							R-EVE	0.5 ug/L
.LCMTB3_SU_00023	07/10/21	01/10/21	Methanol, Lot 202389	250 mL	LCMTB3_SU_00020	2.5 mL	13C3 HFPO-DA	5 ug/L
							13C4 PFHpA	5 ug/L
..LCMTB3_SU_00020	07/10/21	01/10/21	Methanol, Lot Fisher 202389	50 mL	LCM3HFPO-DA_00027	500 uL	13C3 HFPO-DA	0.5 ug/mL
					LCM4PFHPA_00035	500 uL	13C4 PFHpA	0.5 ug/mL
...LCM3HFPO-DA_00027	10/21/23		WELLINGTON, Lot M3HFPODA1020		(Purchased Reagent)		13C3 HFPO-DA	50 ug/mL
...LCM4PFHPA_00035	09/29/25		Wellington Laboratories, Lot M4PFHPA0920		(Purchased Reagent)		13C4 PFHpA	50 ug/mL
.LCTB3_SP_00068	08/23/21	02/28/21	Methanol, Lot 204519	250 mL	LCTB3_IM2_00012	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							R-EVE	5 ug/L
...LCTB3_IM2_00012	08/23/21	02/28/21	Methanol, Lot 204519	200 mL	LCHFPO-DA 00017	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00024	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00022	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
							PFO4DA	50 ug/L
							PFO5DA	50 ug/L
							PMPA	50 ug/L
							R-EVE	50 ug/L
...LCHFPO-DA 00017	11/13/23		WELLINGTON, Lot HFPODA1120				HFPO-DA	50 ug/mL
...LCPFHpA 00024	07/09/25		Wellington Laboratories, Lot PFHpA0620				Perfluoroheptanoic acid	50 ug/mL
...LCTB3_IM_00022	08/23/21	02/28/21	Methanol, Lot 204519	20 mL	LCBP1_00001	100 uL	PS Acid	5000 ug/L
					LCBP2_00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4_00001	100 uL	R-PSDA	5000 ug/L
					LCBP5_00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6_00001	100 uL	R-PSDCA	5000 ug/L
					LCEVEA_00001	100 uL	EVE Acid	5000 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.:

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCNVHOS 00001	100 uL	NVHOS	5000 ug/L
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFCECA B 00001	100 uL	PFCECA B	5000 ug/L
					LCPFCECA G 00001	100 uL	PFCECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
....LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
....LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
....LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
....LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
....LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
....LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
....LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
....LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
....LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
....LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
....LCPFCECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFCECA B	1000 ug/mL
....LCPFCECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFCECA G	1000 ug/mL
....LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
....LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
....LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
....LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
....LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
....LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
....LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL
<b>LCTB3_SP_00063</b>	03/23/21	09/24/20	Methanol, Lot 202389	250 mL	LCTB3_IM2_00011	25 mL	HFPO-DA	5 ug/L
							Perfluoroheptanoic acid	5 ug/L
							PS Acid	5 ug/L
							Hydro-PS Acid	5 ug/L
							R-PSDA	5 ug/L
							Hydrolyzed PSDA	5 ug/L
							R-PSDCA	5 ug/L
							DFSA	5 ug/L
							EVE Acid	5 ug/L
							Hydro-EVE Acid	5 ug/L
							MMF	5 ug/L
							MTP	5 ug/L
							NVHOS	5 ug/L
							PEPA	5 ug/L
							PES	5 ug/L

REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
							PFECA B	5 ug/L
							PFECA G	5 ug/L
							PFMOAA	5 ug/L
							PFO2HxA	5 ug/L
							PFO3OA	5 ug/L
							PFO4DA	5 ug/L
							PFO5DA	5 ug/L
							PMPA	5 ug/L
							PPF Acid	5 ug/L
							R-EVE	5 ug/L
.LCTB3_IM2_00011	03/23/21	09/23/20	Methanol, Lot 202389	200 mL	LCHFPO-DA 00015	200 uL	HFPO-DA	50 ug/L
					LCPFHpA 00020	200 uL	Perfluoroheptanoic acid	50 ug/L
					LCTB3_IM_00020	2 mL	PS Acid	50 ug/L
							Hydro-PS Acid	50 ug/L
							R-PSDA	50 ug/L
							Hydrolyzed PSDA	50 ug/L
							R-PSDCA	50 ug/L
							DFSA	50 ug/L
							EVE Acid	50 ug/L
							Hydro-EVE Acid	50 ug/L
							MMF	50 ug/L
							MTP	50 ug/L
							NVHOS	50 ug/L
							PEPA	50 ug/L
							PES	50 ug/L
							PFECA B	50 ug/L
							PFECA G	50 ug/L
							PFMOAA	50 ug/L
							PFO2HxA	50 ug/L
							PFO3OA	50 ug/L
		PFO4DA	50 ug/L					
		PFO5DA	50 ug/L					
		PMPA	50 ug/L					
		PPF Acid	50 ug/L					
		R-EVE	50 ug/L					
..LCHFPO-DA 00015	07/09/23		WELLINGTON, Lot HFPODA0720		(Purchased Reagent)		HFPO-DA	50 ug/mL
..LCPFHpA 00020	07/09/25		Wellington Laboratories, Lot PFHpA0620		(Purchased Reagent)		Perfluoroheptanoic acid	50 ug/mL
..LCTB3_IM_00020	03/23/21	09/23/20	Methanol, Lot 202389	20 mL	LCBP1 00001	100 uL	PS Acid	5000 ug/L
					LCBP2 00001	100 uL	Hydro-PS Acid	5000 ug/L
					LCBP4 00001	100 uL	R-PSDA	5000 ug/L
					LCBP5 00001	100 uL	Hydrolyzed PSDA	5000 ug/L
					LCBP6 00001	100 uL	R-PSDCA	5000 ug/L
					LCDFSA 00001	100 uL	DFSA	5000 ug/L
					LCEVEA 00001	100 uL	EVE Acid	5000 ug/L
					LCHEVEA 00001	100 uL	Hydro-EVE Acid	5000 ug/L
					LCMMF 00001	100 uL	MMF	5000 ug/L
					LCMTP 00001	100 uL	MTP	5000 ug/L
					LCNVHOS_00001	100 uL	NVHOS	5000 ug/L



REAGENT TRACEABILITY SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Reagent ID	Exp Date	Prep Date	Dilutant Used	Reagent Final Volume	Parent Reagent		Analyte	Concentration
					Reagent ID	Volume Added		
					LCPEPA 00002	100 uL	PEPA	5000 ug/L
					LCPEPES 00001	100 uL	PES	5000 ug/L
					LCPFECA B 00001	100 uL	PFECA B	5000 ug/L
					LCPFECA G 00001	100 uL	PFECA G	5000 ug/L
					LCPFMOAA 00002	100 uL	PFMOAA	5000 ug/L
					LCPFO2HxA 00002	100 uL	PFO2HxA	5000 ug/L
					LCPFO3OA 00002	100 uL	PFO3OA	5000 ug/L
					LCPFO4DA 00002	100 uL	PFO4DA	5000 ug/L
					LCPFO5DoA 00001	100 uL	PFO5DA	5000 ug/L
					LCPMPA 00002	100 uL	PMPA	5000 ug/L
					LCPPPFA 00001	100 uL	PPF Acid	5000 ug/L
					LCR-EVE 00001	100 uL	R-EVE	5000 ug/L
...LCBP1 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PS Acid	1000 ug/mL
...LCBP2 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-PS Acid	1000 ug/mL
...LCBP4 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDA	1000 ug/mL
...LCBP5 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydrolyzed PSDA	1000 ug/mL
...LCBP6 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-PSDCA	1000 ug/mL
...LCDFSA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		DFSA	1000 ug/mL
...LCEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		EVE Acid	1000 ug/mL
...LCHEVEA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		Hydro-EVE Acid	1000 ug/mL
...LCMMF 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MMF	1000 ug/mL
...LCMTP 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		MTP	1000 ug/mL
...LCNVHOS 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		NVHOS	1000 ug/mL
...LCPEPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PEPA	1000 ug/mL
...LCPEPES 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PES	1000 ug/mL
...LCPFECA B 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA B	1000 ug/mL
...LCPFECA G 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFECA G	1000 ug/mL
...LCPFMOAA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFMOAA	1000 ug/mL
...LCPFO2HxA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO2HxA	1000 ug/mL
...LCPFO3OA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO3OA	1000 ug/mL
...LCPFO4DA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO4DA	1000 ug/mL
...LCPFO5DoA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PFO5DA	1000 ug/mL
...LCPMPA 00002	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PMPA	1000 ug/mL
...LCPPPFA 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		PPF Acid	1000 ug/mL
...LCR-EVE 00001	01/23/24		Chemours, Lot NA		(Purchased Reagent)		R-EVE	1000 ug/mL

Reagent

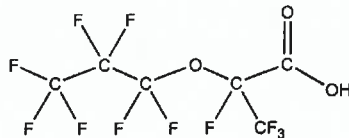
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**LCHFPO-DA\_00015**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA0720  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>H<sub>11</sub>F<sub>10</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/16/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters  $x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{i=1}^n u(y, x_i)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

**TRACEABILITY:**

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**EXPIRY DATE / PERIOD OF VALIDITY:**

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**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

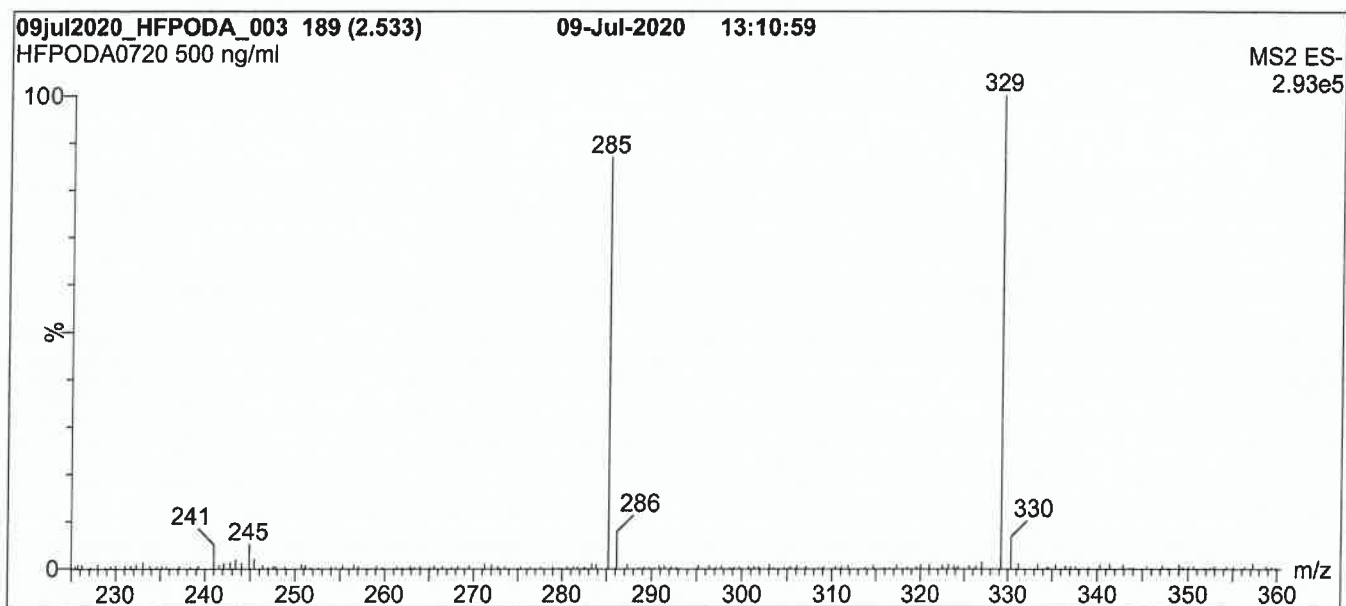
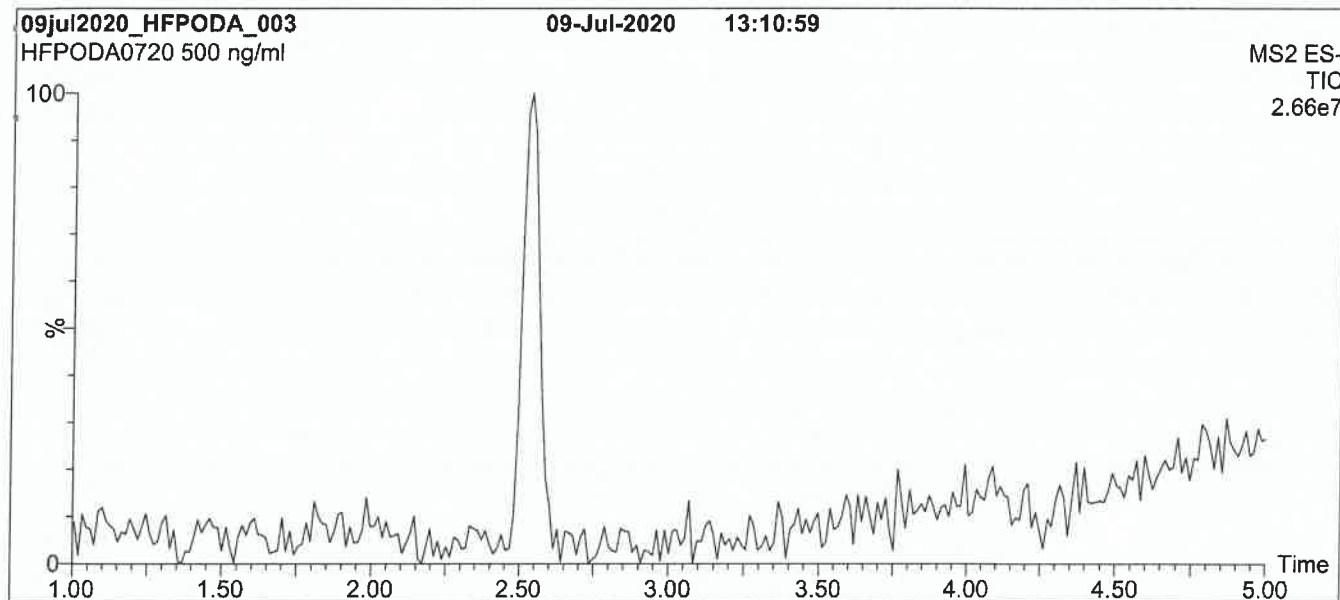
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**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

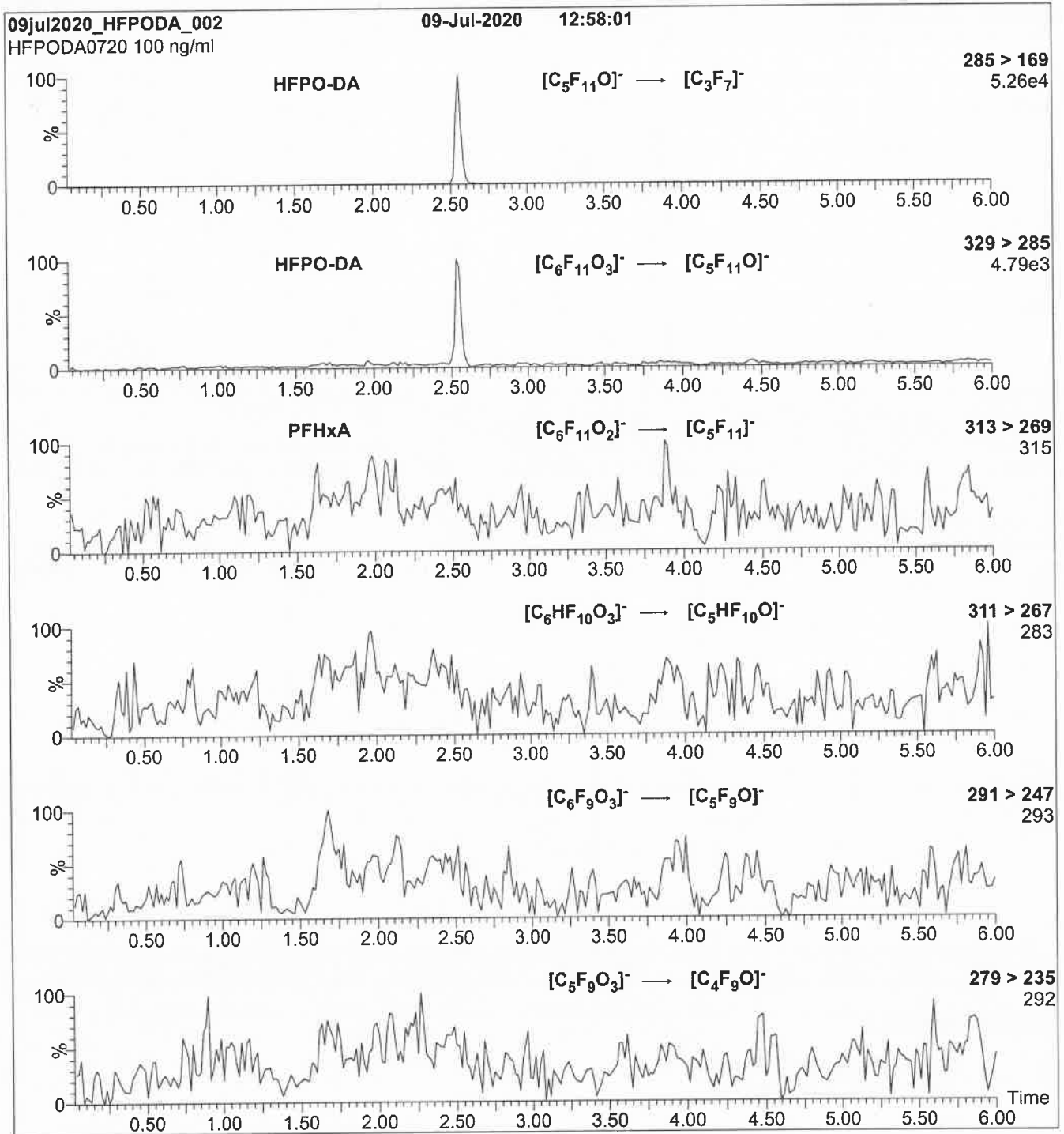
Flow: 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 3.00  
 Cone Voltage (V) = 15.00  
 Desolvation Temperature ( $^{\circ}$ C) = 300  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

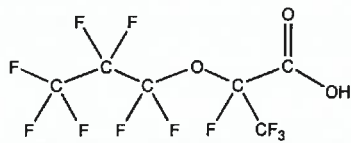
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**LCHEPO-DA\_00017**



**PRODUCT CODE:** HFPO-DA **LOT NUMBER:** HFPODA1120  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid

**STRUCTURE:** **CAS #:** 13252-13-6



**MOLECULAR FORMULA:** C<sub>6</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 330.05  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 11/13/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 11/13/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Product is commercially known as GenX.

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(mm/dd/yyyy)

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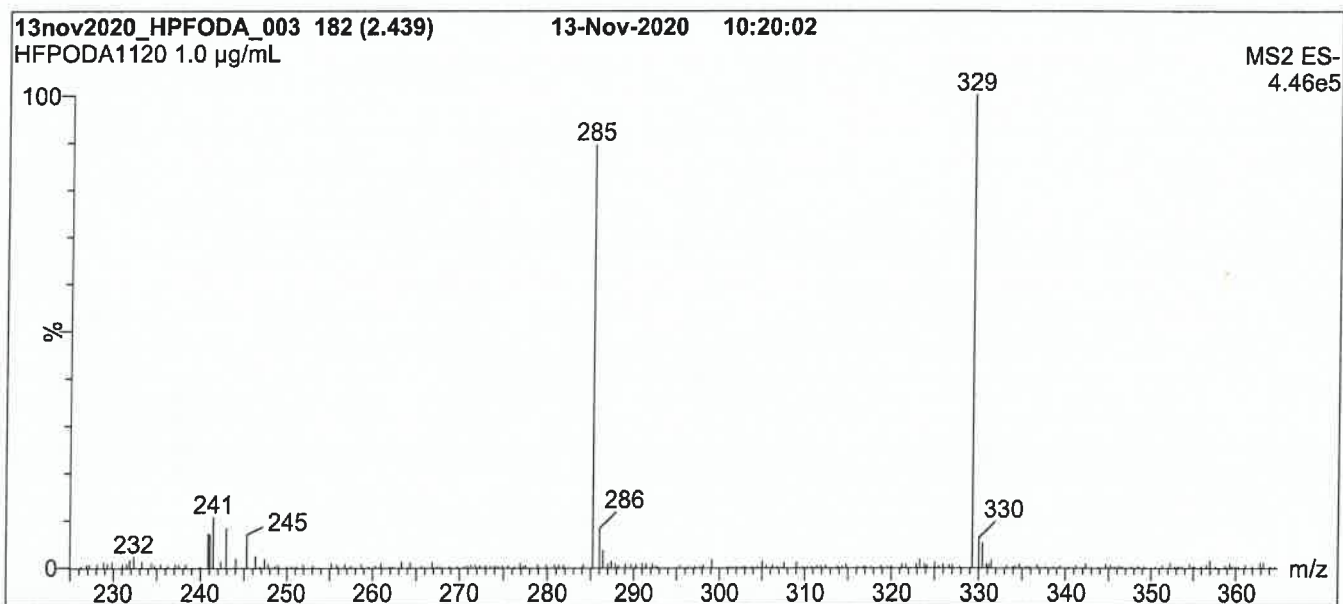
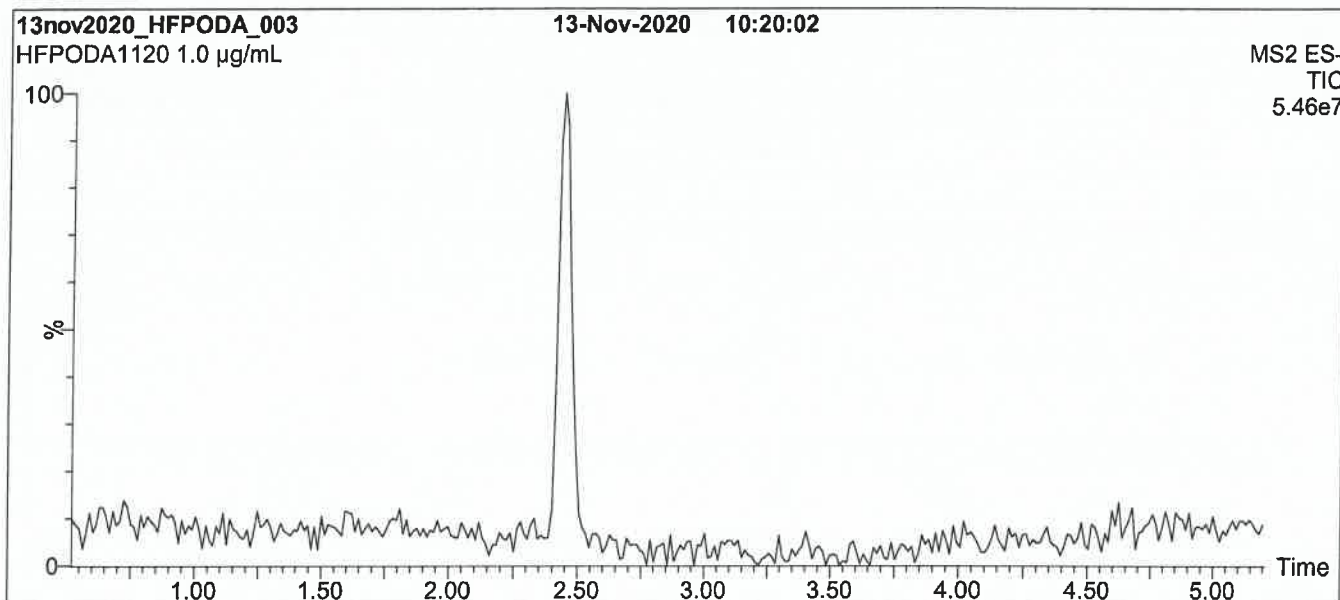
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**Figure 1: HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7 µm, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% H<sub>2</sub>O / 50% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

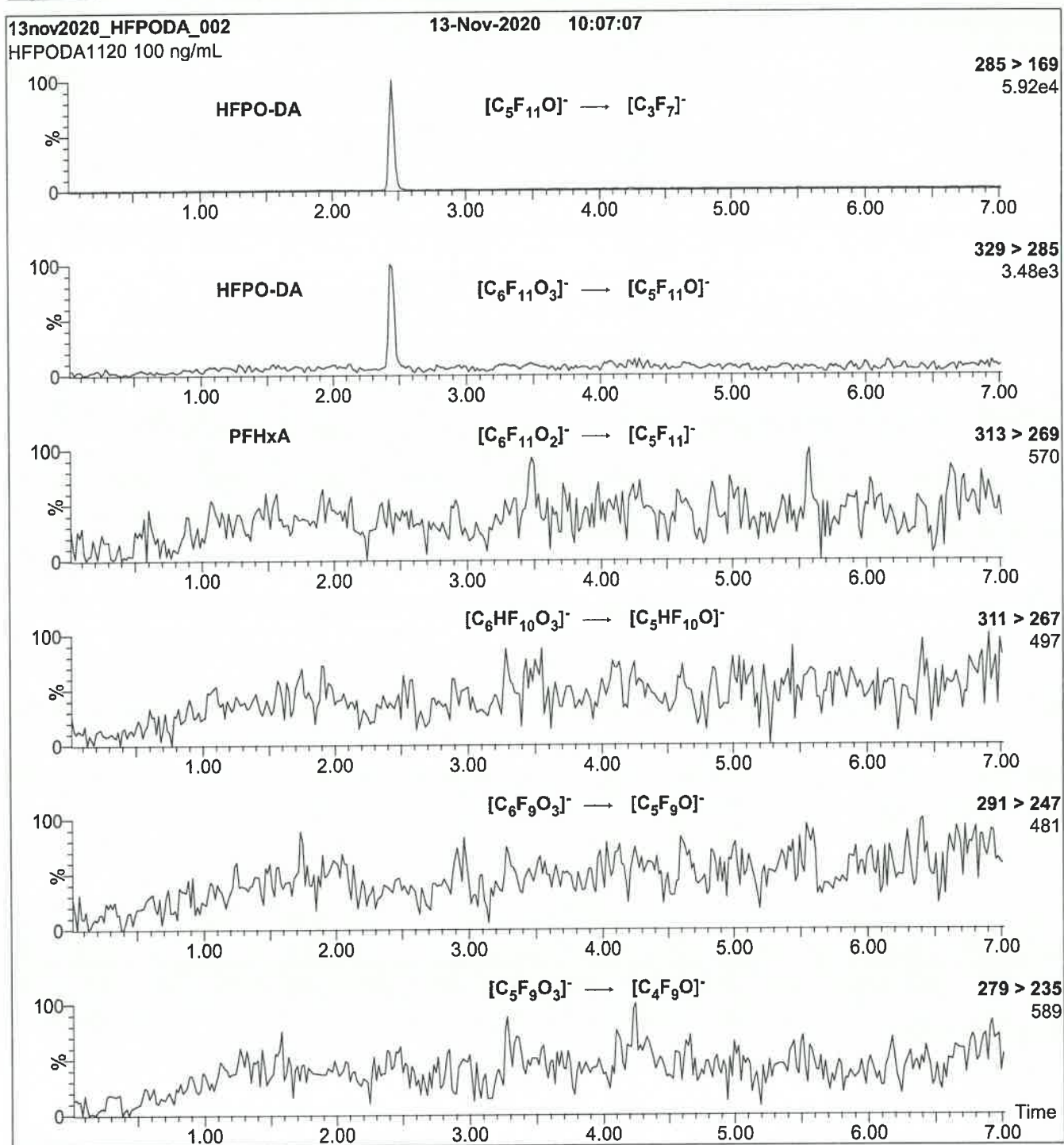
Flow: 300 µL/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.50  
Cone Voltage (V) = 15.00  
Desolvation Temperature (°C) = 300  
Desolvation Gas Flow (L/hr) = 1000

**Figure 2: HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (HFPO-DA)  
 Mobile phase: Same as Figure 1  
 Flow: 300 µL/min

**MS Parameters:**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

Reagent

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**LCM3HFPO-DA\_00027**

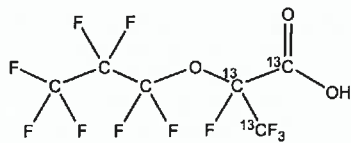


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** M3HFPO-DA **LOT NUMBER:** M3HFPODA1020  
**COMPOUND:** 2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-<sup>13</sup>C<sub>3</sub>-propanoic acid

**STRUCTURE:** **CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>3</sub><sup>12</sup>C<sub>3</sub>HF<sub>11</sub>O<sub>3</sub> **MOLECULAR WEIGHT:** 333.03  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL **SOLVENT(S):** Methanol  
**CHEMICAL PURITY:** >98% **ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
**LAST TESTED:** (mm/dd/yyyy) 10/21/2020 (<sup>13</sup>C<sub>3</sub>)  
**EXPIRY DATE:** (mm/dd/yyyy) 10/21/2023  
**RECOMMENDED STORAGE:** Refrigerate ampoule

### DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

### ADDITIONAL INFORMATION:

- See page 2 for further details.
- Product is commercially known as GenX.

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**Certified By:**   
B.G. Chittim, General Manager

**Date:** 10/23/2020  
(mm/dd/yyyy)

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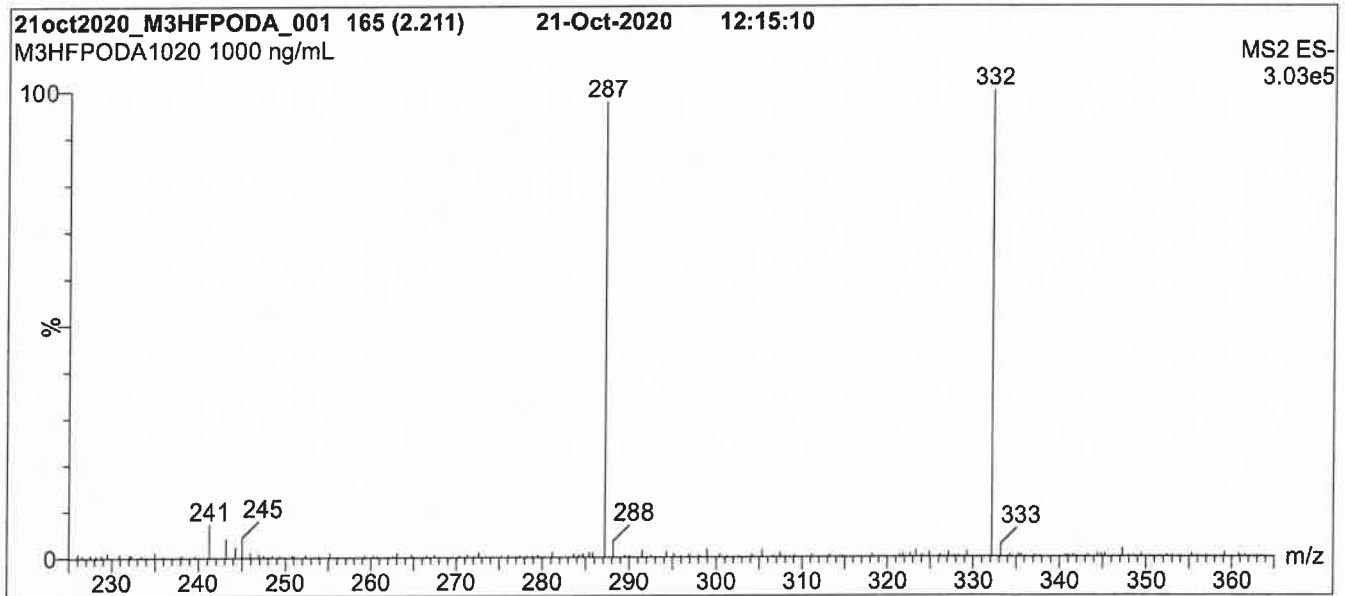
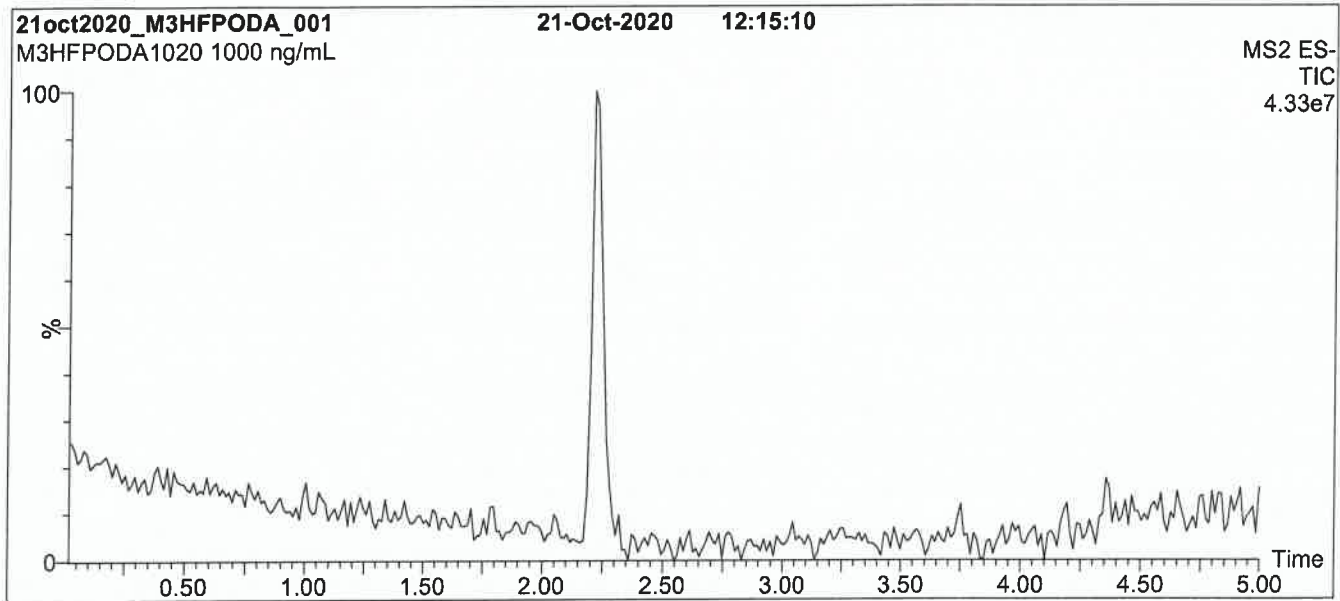
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**Figure 1: M3HFPO-DA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% H<sub>2</sub>O / 50% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

Flow: 300  $\mu$ L/min

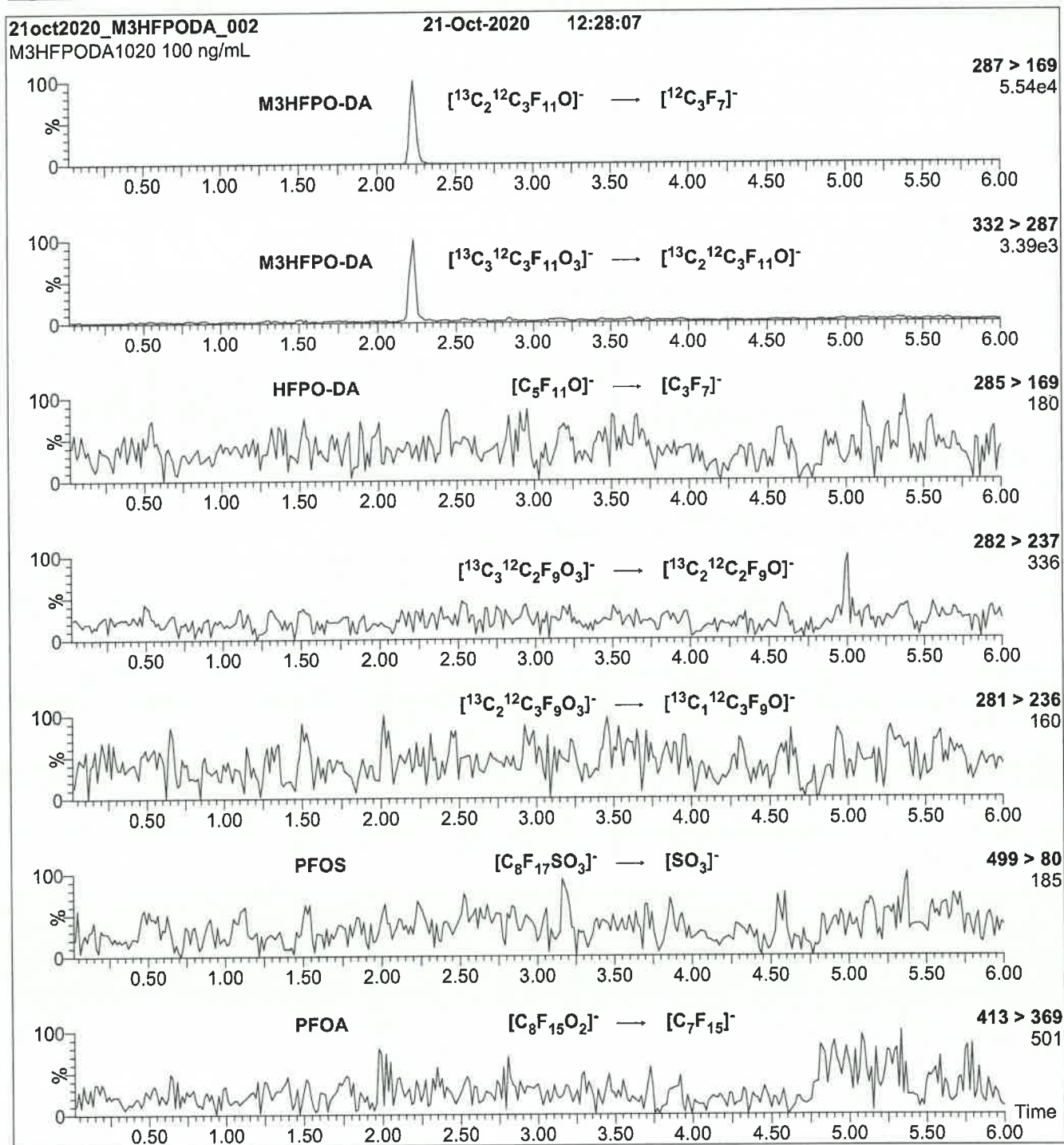
**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.50  
Cone Voltage (V) = 15.00  
Desolvation Temperature ( $^{\circ}$ C) = 300  
Desolvation Gas Flow (L/hr) = 1000



**Figure 2: M3HFPO-DA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M3HFPO-DA)

Mobile phase: Same as Figure 1

Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.41e-3

Collision Energy (eV) = 8



Reagent

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**LCM4PFHPA\_00035**

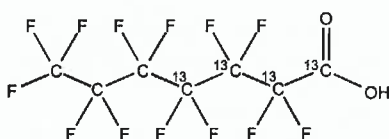


**PRODUCT CODE:** M4PFHpA  
**COMPOUND:** Perfluoro-n-[1,2,3,4-<sup>13</sup>C<sub>4</sub>]heptanoic acid

**LOT NUMBER:** M4PFHpA0920

**STRUCTURE:**

**CAS #:** Not available



**MOLECULAR FORMULA:** <sup>13</sup>C<sub>4</sub><sup>12</sup>C<sub>3</sub>HF<sub>13</sub>O<sub>2</sub>  
**CONCENTRATION:** 50.0 ± 2.5 µg/mL

**MOLECULAR WEIGHT:** 368.03  
**SOLVENT(S):** Methanol  
Water (<1%)  
**ISOTOPIC PURITY:** ≥99% <sup>13</sup>C  
(1,2,3,4-<sup>13</sup>C<sub>4</sub>)

**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 09/29/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 09/29/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.
- Contains ~ 0.03% of perfluoro-n-heptanoic acid.

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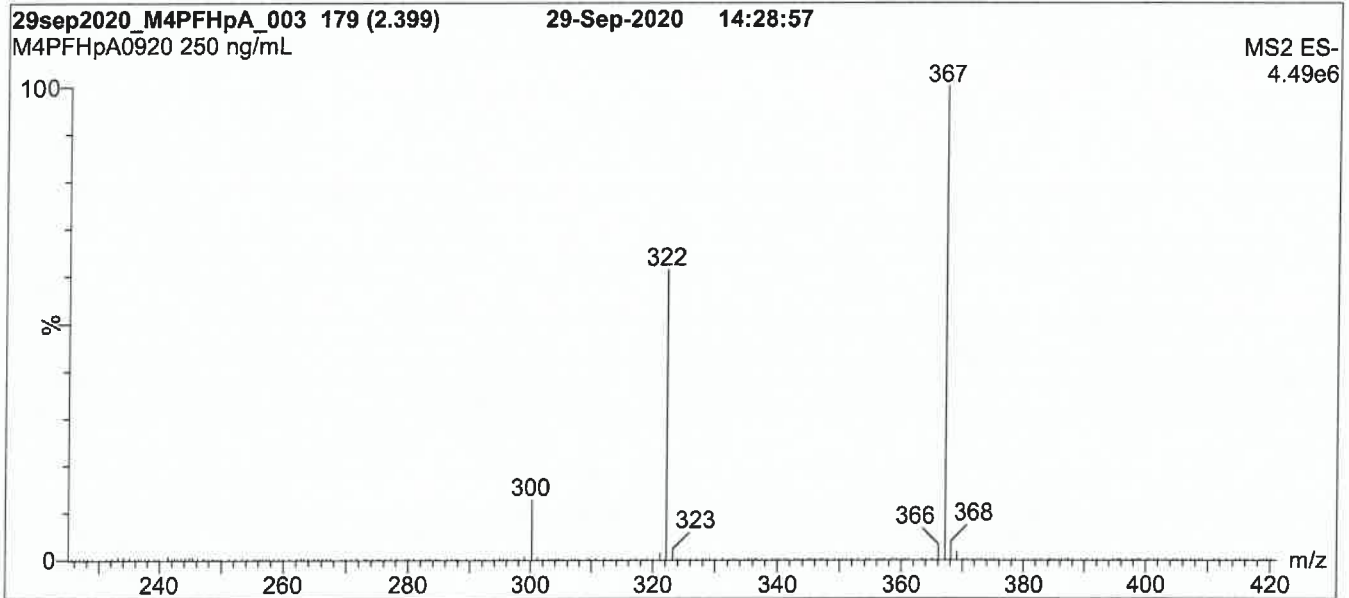
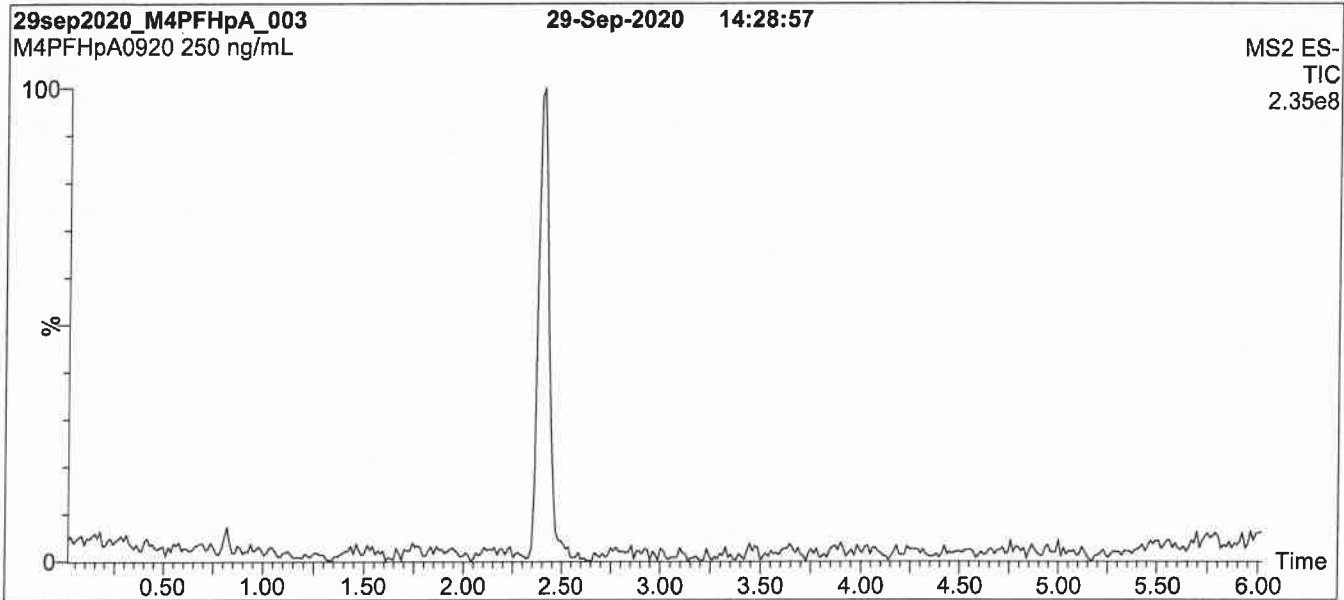
**QUALITY MANAGEMENT:**

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



\*\*For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at [www.well-labs.com](http://www.well-labs.com) or contact us directly at [info@well-labs.com](mailto:info@well-labs.com)\*\*

**Figure 1: M4PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

Waters Acquity Ultra Performance LC  
Waters Xevo TQ-S micro MS

**Chromatographic Conditions:**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient

Start: 45% H<sub>2</sub>O / 55% (80:20 MeOH:ACN)  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

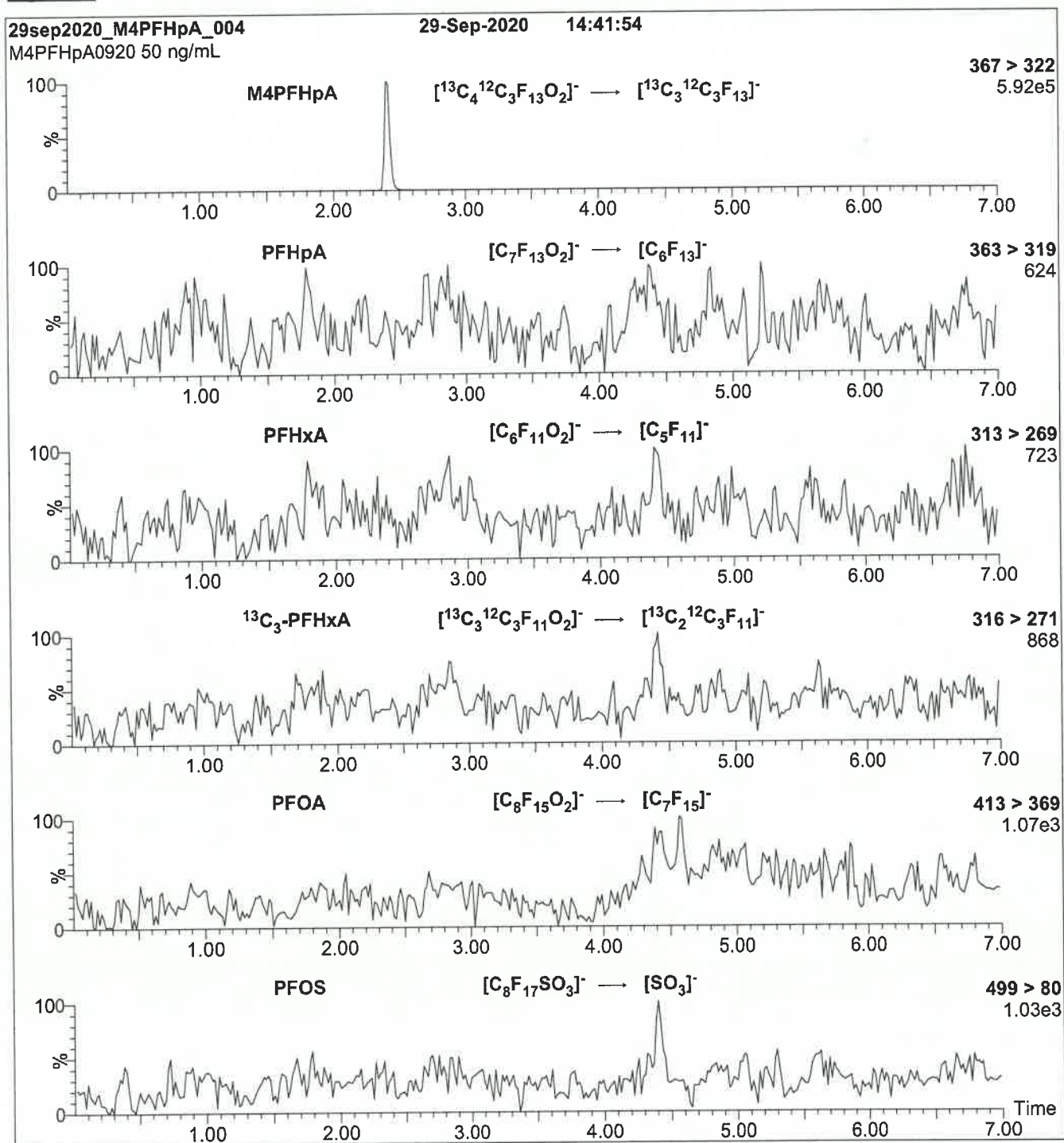
Flow: 300  $\mu$ L/min

**MS Parameters:**

Experiment: Full Scan (225 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (L/hr) = 1000

**Figure 2: M4PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (M4PFHpA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu\text{L}/\text{min}$

**MS Parameters:**

Collision Gas (mbar) = 3.27e-3  
Collision Energy (eV) = 8

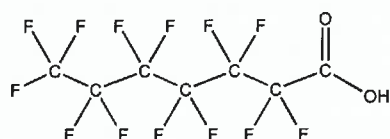
Reagent

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**LCPFHpA\_00020**



**PRODUCT CODE:** PFHpA **LOT NUMBER:** PFHpA0620  
**COMPOUND:** Perfluoro-n-heptanoic acid  
**STRUCTURE:** **CAS #:** 375-85-9



**MOLECULAR FORMULA:** C<sub>7</sub>HF<sub>13</sub>O<sub>2</sub> **MOLECULAR WEIGHT:** 364.06  
**CONCENTRATION:** 50.0 ± 2.5 µg/ml **SOLVENT(S):** Methanol  
Water (<1%)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

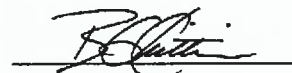
**DOCUMENTATION/ DATA ATTACHED:**

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

**ADDITIONAL INFORMATION:**

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

Certified By:   
B.G. Chittim, General Manager **Date:** 07/22/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

**INTENDED USE:**

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compound it contains.

**HANDLING:**

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

**SYNTHESIS / CHARACTERIZATION:**

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

**HOMOGENEITY:**

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products are compared to older lots in the same manner, which further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

**UNCERTAINTY:**

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty,  $u_c(y)$ , of a value  $y$  and the uncertainty of the independent parameters

$x_1, x_2, \dots, x_n$  on which it depends is:

$$u_c(y(x_1, x_2, \dots, x_n)) = \sqrt{\sum_{j=1}^n u(y, x_j)^2}$$

where  $x$  is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of  $\pm 5\%$  (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

**TRACEABILITY:**

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

**EXPIRY DATE / PERIOD OF VALIDITY:**

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

**LIMITED WARRANTY:**

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

**QUALITY MANAGEMENT:**

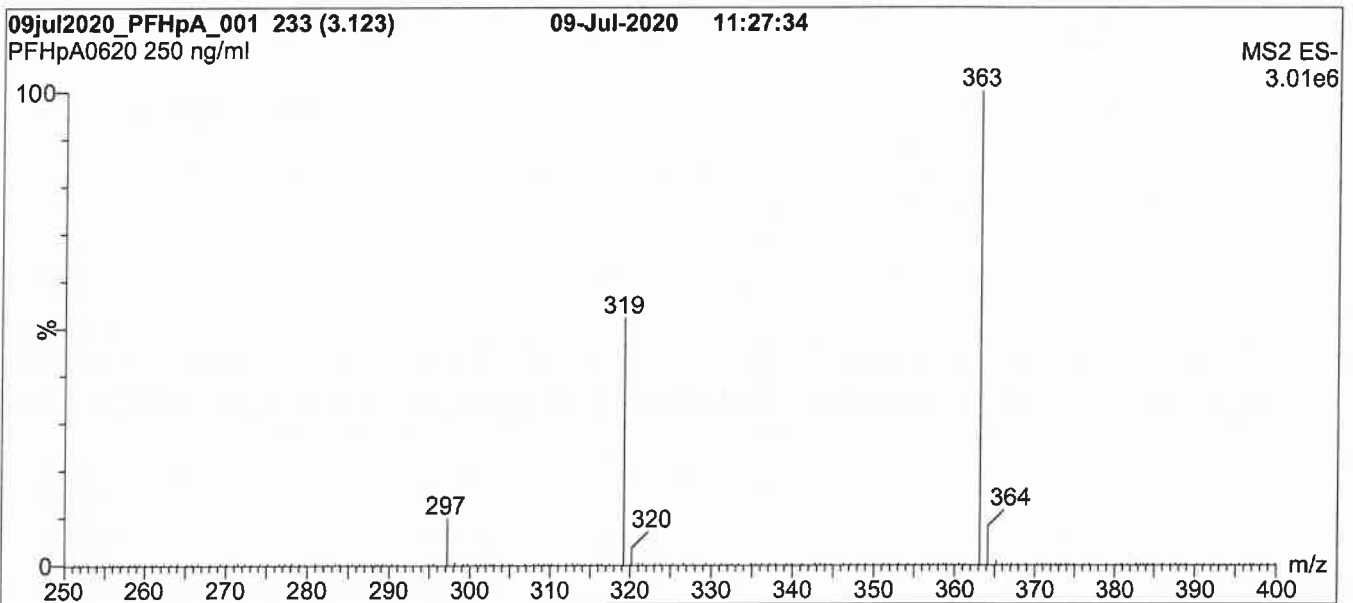
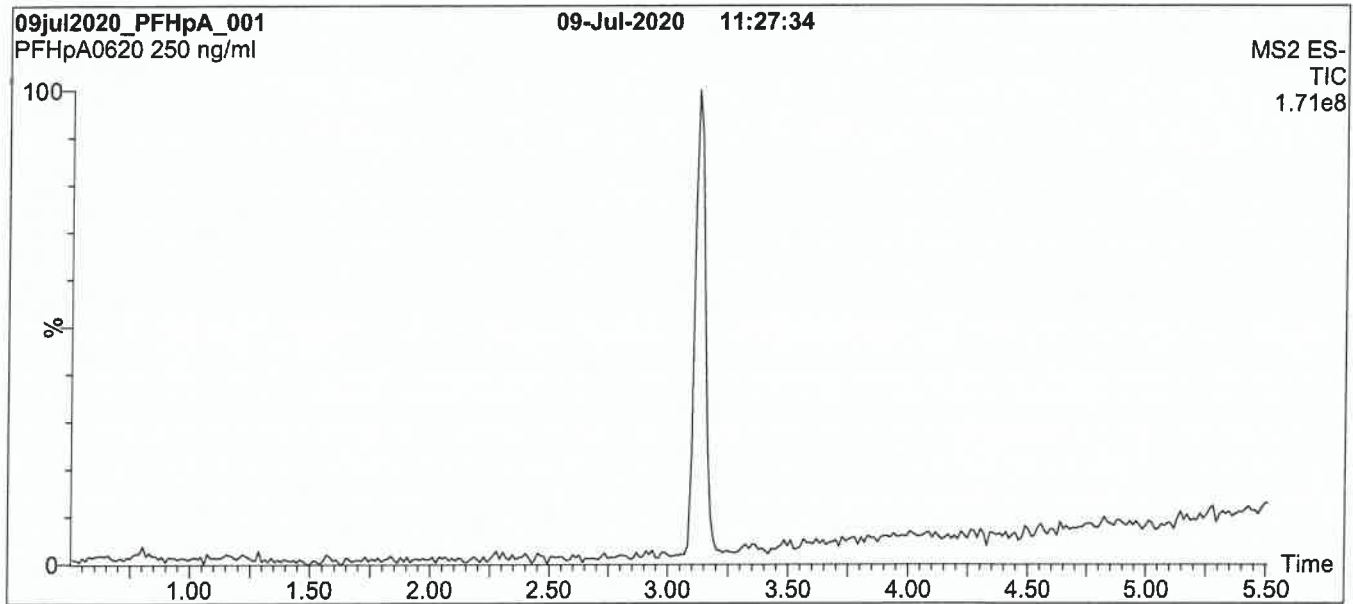
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).



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**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

**Column:** Acquity UPLC BEH Shield RP<sub>18</sub>  
 1.7  $\mu$ m, 2.1 x 100 mm

**Mobile phase:** Gradient  
 Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
 (both with 10 mM NH<sub>4</sub>OAc buffer)  
 Ramp to 90% organic over 8 min and hold for  
 2 min before returning to initial conditions in 0.75 min.  
 Time: 12 min

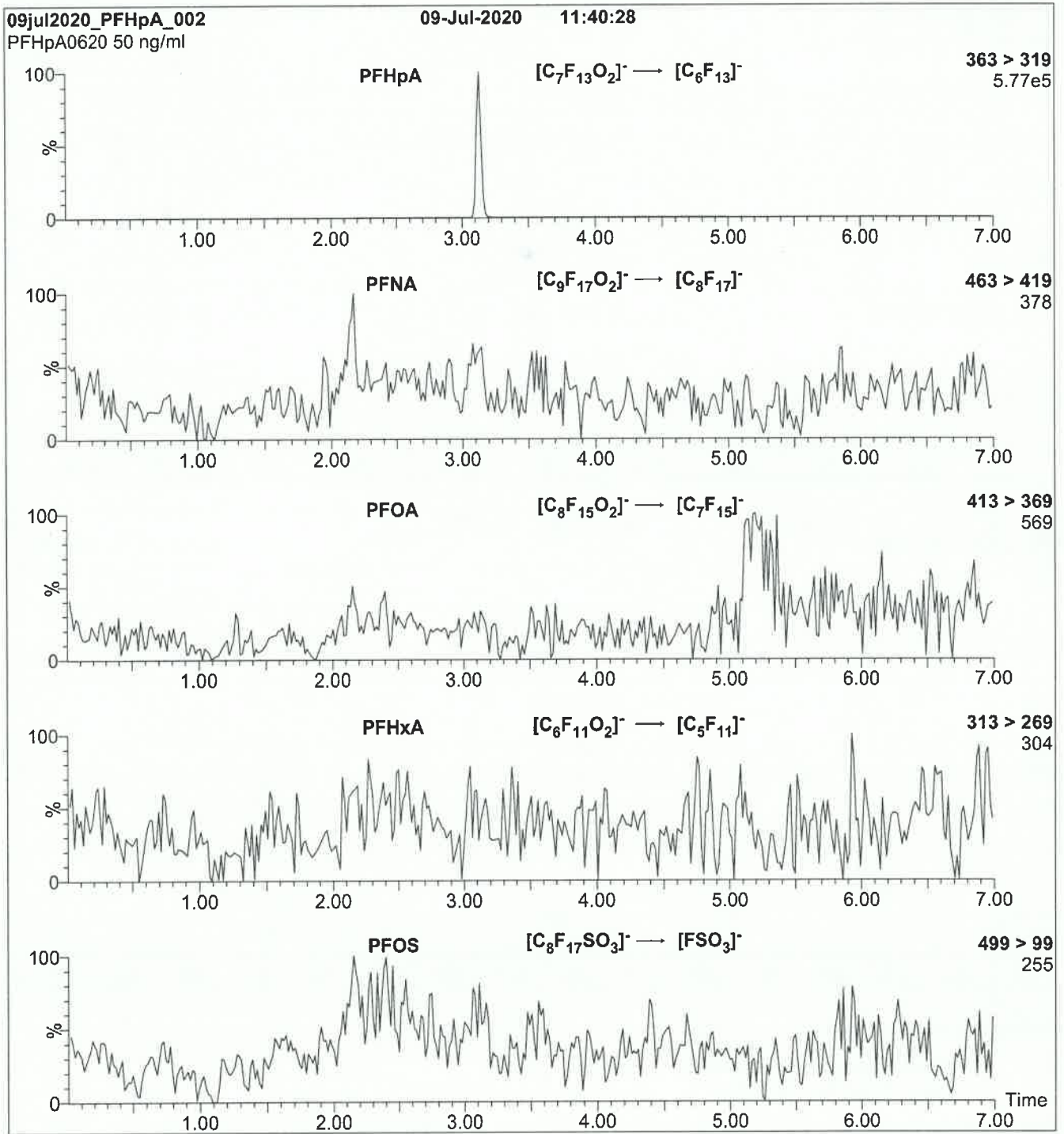
**Flow:** 300  $\mu$ l/min

**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
 Capillary Voltage (kV) = 2.00  
 Cone Voltage (V) = 10.00  
 Desolvation Temperature ( $^{\circ}$ C) = 500  
 Desolvation Gas Flow (l/hr) = 1000

**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
Mobile phase: Same as Figure 1  
Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
Collision Energy (eV) = 8

Reagent

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**LCPFHpA\_00024**

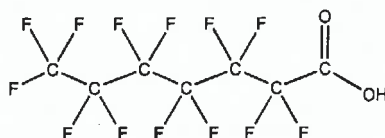


# WELLINGTON LABORATORIES

## CERTIFICATE OF ANALYSIS DOCUMENTATION

**PRODUCT CODE:** PFHpA **LOT NUMBER:** PFHpA0620  
**COMPOUND:** Perfluoro-n-heptanoic acid

**STRUCTURE:** **CAS #:** 375-85-9



**MOLECULAR FORMULA:**  $C_7HF_{13}O_2$  **MOLECULAR WEIGHT:** 364.06  
**CONCENTRATION:**  $50.0 \pm 2.5 \mu\text{g/ml}$  **SOLVENT(S):** Methanol  
Water (<1%)  
**CHEMICAL PURITY:** >98%  
**LAST TESTED:** (mm/dd/yyyy) 07/09/2020  
**EXPIRY DATE:** (mm/dd/yyyy) 07/09/2025  
**RECOMMENDED STORAGE:** Store ampoule in a cool, dark place

### DOCUMENTATION/ DATA ATTACHED:

Figure 1: LC/MS Data (TIC and Mass Spectrum)  
Figure 2: LC/MS/MS Data (Selected MRM Transitions)

### ADDITIONAL INFORMATION:

- See page 2 for further details.
- Contains 4 mole eq. of NaOH to prevent conversion of the carboxylic acid to the methyl ester.

**FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE**

**Certified By:**   
B.G. Chittim, General Manager **Date:** 07/22/2020  
(mm/dd/yyyy)

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA  
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

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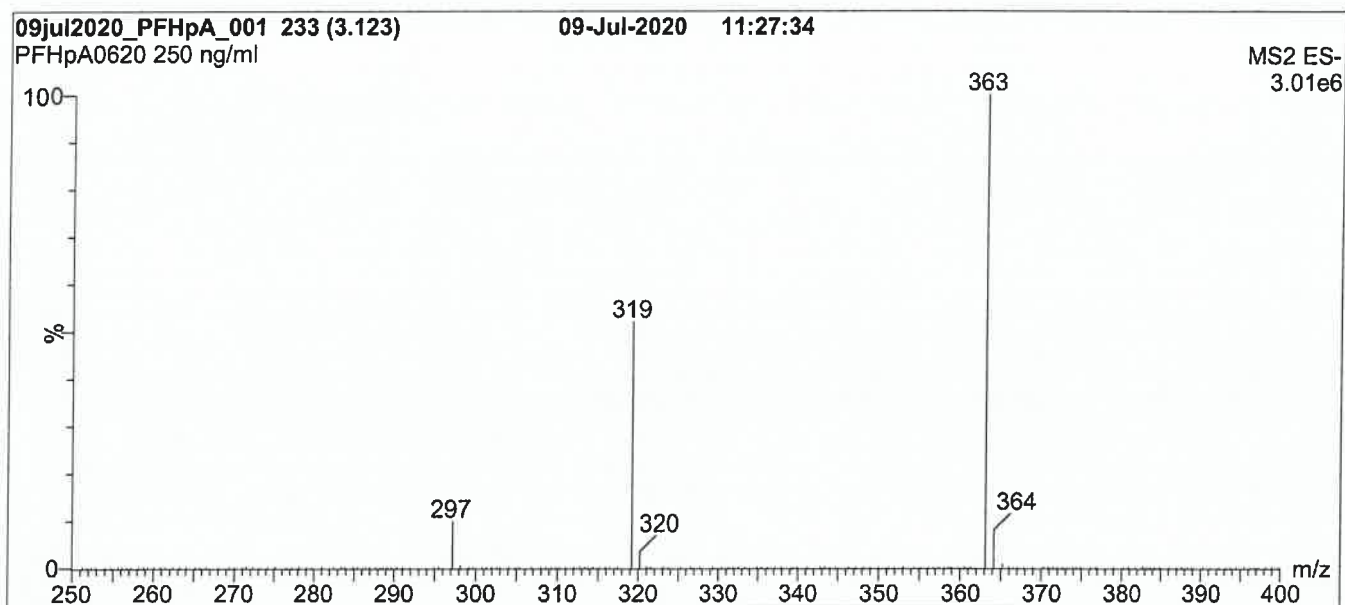
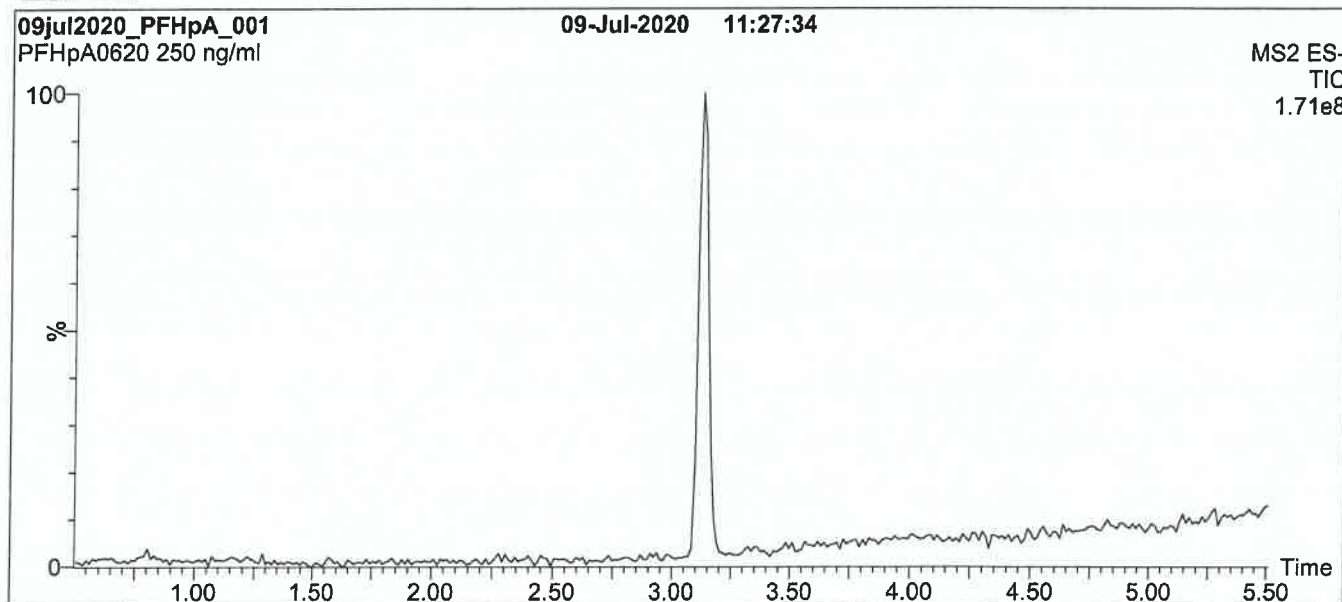
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**Figure 1: PFHpA; LC/MS Data (TIC and Mass Spectrum)**



**Conditions for Figure 1:**

**LC:** Waters Acquity Ultra Performance LC  
**MS:** Waters Xevo TQ-S micro MS

**Chromatographic Conditions**

Column: Acquity UPLC BEH Shield RP<sub>18</sub>  
1.7  $\mu$ m, 2.1 x 100 mm

Mobile phase: Gradient  
Start: 50% (80:20 MeOH:ACN) / 50% H<sub>2</sub>O  
(both with 10 mM NH<sub>4</sub>OAc buffer)  
Ramp to 90% organic over 8 min and hold for  
2 min before returning to initial conditions in 0.75 min.  
Time: 12 min

Flow: 300  $\mu$ l/min

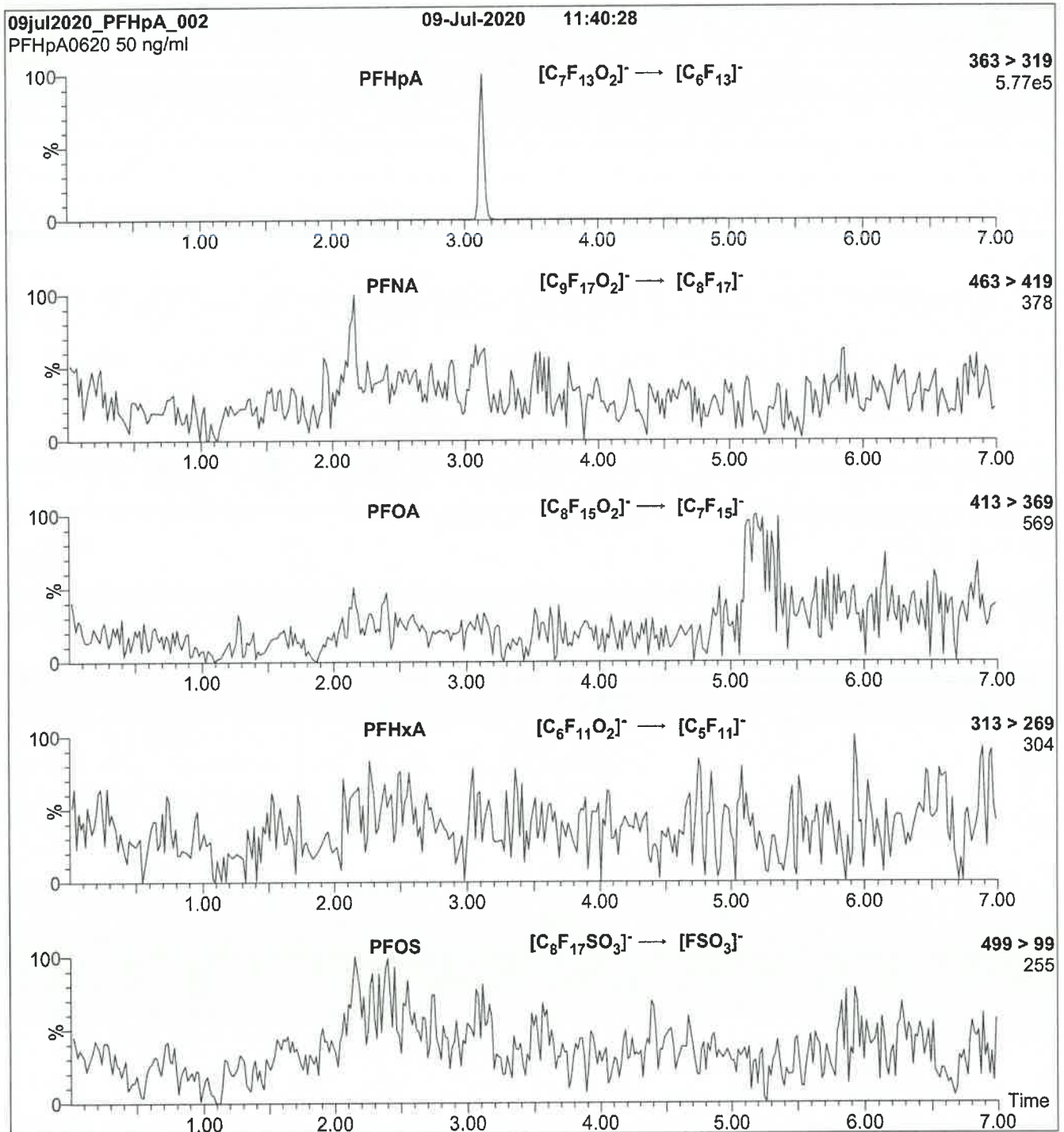
**MS Parameters**

Experiment: Full Scan (250 - 850 amu)

Source: Electrospray (negative)  
Capillary Voltage (kV) = 2.00  
Cone Voltage (V) = 10.00  
Desolvation Temperature ( $^{\circ}$ C) = 500  
Desolvation Gas Flow (l/hr) = 1000



**Figure 2: PFHpA; LC/MS/MS Data (Selected MRM Transitions)**



**Conditions for Figure 2:**

Injection: On-column (PFHpA)  
 Mobile phase: Same as Figure 1  
 Flow: 300  $\mu$ l/min

**MS Parameters**

Collision Gas (mbar) = 3.29e-3  
 Collision Energy (eV) = 8

# PFAS\_CHEM\_TB3P

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Fluoroproducts Analytical Method -  
Table 3+



FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	HFPODA #
SEEP-C-Effluent-24-022721	320-70652-1	105
SEEP-C-Influent-24-022721	320-70652-2	109
Seep-C-EQBLK-ISCO-022721	320-70652-3	102
SEEP-C-FBLK-022721	320-70652-4	106
	MB 320-467237/1-A	96
	LCS 320-467237/2-A	81
	LCSD 320-467237/3-A	78

HFPODA = 13C3 HFPO-DA

QC LIMITS  
25-150

# Column to be used to flag recovery values

FORM II Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: 2021.03.12\_A12\_TB3\_C\_008.d  
 Lab ID: LCS 320-467237/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
13C3 HFPO-DA	0.500	0.403	81	25-150	
EVE Acid	0.200	0.179	90	70-130	
HFPO-DA	0.200	0.212	106	70-130	
Hydro-EVE Acid	0.200	0.150	75	70-130	
Hydrolyzed PSDA	0.200	0.186	93	50-150	
Hydro-PS Acid	0.200	0.177	88	70-130	
NVHOS	0.200	0.183	91	70-130	
PEPA	0.200	0.176	88	70-130	
PES	0.200	0.191	95	70-130	
PFECA B	0.200	0.186	93	70-130	
PFECA G	0.200	0.163	82	70-130	
PFMOAA	0.200	0.227	113	70-130	
PFO2HxA	0.200	0.208	104	70-130	
PFO3OA	0.200	0.210	105	70-130	
PFO4DA	0.200	0.136	68	50-150	
PFO5DA	0.200	0.156	78	50-150	
PMPA	0.200	0.202	101	70-130	
PS Acid	0.200	0.178	89	70-130	
R-EVE	0.200	0.207	104	50-150	
R-PSDA	0.200	0.170	85	50-150	
R-PSDCA	0.200	0.139	70	70-130	

# Column to be used to flag recovery and RPD values  
 FORM III Chemours (TB3+)

FORM III  
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: 2021.03.12\_A12\_TB3\_C\_009.d

Lab ID: LCSD 320-467237/3-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C3 HFPO-DA	0.500	0.389	78			25-150	
EVE Acid	0.200	0.161	81	11	25	70-130	
HFPO-DA	0.200	0.228	114	7	25	70-130	
Hydro-EVE Acid	0.200	0.148	74	1	25	70-130	
Hydrolyzed PSDA	0.200	0.204	102	9	25	50-150	
Hydro-PS Acid	0.200	0.168	84	5	25	70-130	
NVHOS	0.200	0.172	86	6	25	70-130	
PEPA	0.200	0.158	79	11	25	70-130	
PES	0.200	0.171	86	11	25	70-130	
PFECA B	0.200	0.178	89	4	25	70-130	
PFECA G	0.200	0.146	73	11	25	70-130	
PFMOAA	0.200	0.212	106	7	25	70-130	
PFO2HxA	0.200	0.190	95	9	25	70-130	
PFO3OA	0.200	0.178	89	17	25	70-130	
PFO4DA	0.200	0.122	61	10	25	50-150	
PFO5DA	0.200	0.128	64	19	25	50-150	
PMPA	0.200	0.186	93	8	25	70-130	
PS Acid	0.200	0.166	83	7	25	70-130	
R-EVE	0.200	0.220	110	6	25	50-150	
R-PSDA	0.200	0.188	94	10	25	50-150	
R-PSDCA	0.200	0.143	71	3	25	70-130	

# Column to be used to flag recovery and RPD values

FORM III Chemours (TB3+)

FORM IV  
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento      Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_031.d      Lab Sample ID: MB 320-467237/1-A  
 Matrix: Water      Date Extracted: 03/03/2021 20:42  
 Instrument ID: A12      Date Analyzed: 03/10/2021 00:12  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
SEEP-C-Effluent-24-022721	320-70652-1	2021.03.09_TB3_A12_AB_050.d	03/10/2021 05:48
SEEP-C-Influent-24-022721	320-70652-2	2021.03.09_TB3_A12_AB_051.d	03/10/2021 06:05
Seep-C-EQBLK-ISCO-022721	320-70652-3	2021.03.09_TB3_A12_AB_052.d	03/10/2021 06:23
SEEP-C-FBLK-022721	320-70652-4	2021.03.09_TB3_A12_AB_053.d	03/10/2021 06:40
	LCS 320-467237/2-A	2021.03.12_A12_TB3_C_008.d	03/13/2021 07:41
	LCSD 320-467237/3-A	2021.03.12_A12_TB3_C_009.d	03/13/2021 07:59

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-Effluent-24-022721 Lab Sample ID: 320-70652-1  
 Matrix: Water Lab File ID: 2021.03.09\_TB3\_A12\_AB\_050.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/27/2021 16:00  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 0.025 (mL) Date Analyzed: 03/10/2021 05:48  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 468770 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.017		0.017	
13252-13-6	HFPO-DA	<0.081		0.081	
773804-62-9	Hydro-EVE Acid	<0.014		0.014	
2416366-19-1	Hydrolyzed PSDA	<0.038		0.038	
749836-20-2	Hydro-PS Acid	<0.0061		0.0061	
1132933-86-8	NVHOS	<0.015		0.015	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	0.28		0.080	
39492-88-1	PFO2HxA	0.083		0.027	
39492-89-2	PFO3OA	<0.039		0.039	
39492-90-5	PFO4DA	<0.059		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	0.66		0.62	
29311-67-9	PS Acid	<0.020		0.020	
2416366-22-6	R-EVE	<0.072		0.072	
2416366-18-0	R-PSDA	<0.071		0.071	
2416366-21-5	R-PSDCA	<0.017		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	105		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_050.d  
 Lims ID: 320-70652-A-1-A  
 Client ID: SEEP-C-Effluent-24-022721  
 Sample Type: Client  
 Inject. Date: 10-Mar-2021 05:48:00 ALS Bottle#: 50 Worklist Smp#: 22  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70652-a-1-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:14:49 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwong Date: 10-Mar-2021 12:14:49  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.124	4.031	0.093		15919	0.001418		2.7		M
23 PMPA										M
229.00 > 185.00	7.111	6.686	0.425		56593	0.003290		24.8		M
6 PFO2HxA										M
245.00 > 85.00	7.829	7.677	0.152		5194	0.000413		49.8		M
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.243	9.133	0.110		1656225	0.2619		105	31909	M

**QC Flag Legend**

Processing Flags  
 Review Flags  
 M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_050.d

Injection Date: 10-Mar-2021 05:48:00

Instrument ID: A12

Lims ID: 320-70652-A-1-A

Lab Sample ID: 320-70652-1

Client ID: SEEP-C-Effluent-24-022721

Operator ID: Sac\_inst\_A12

ALS Bottle#: 50

Worklist Smp#: 22

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

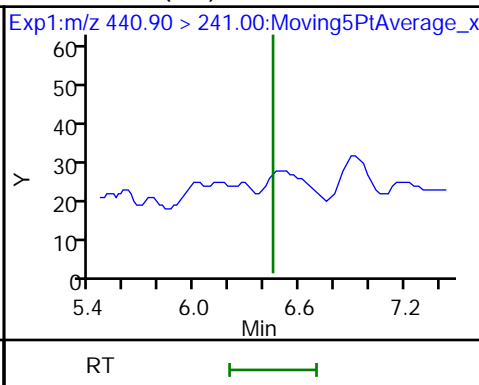
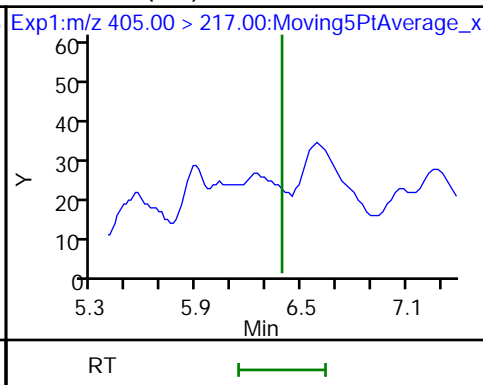
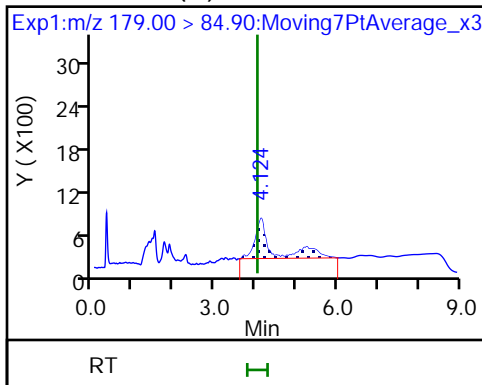
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (ND)

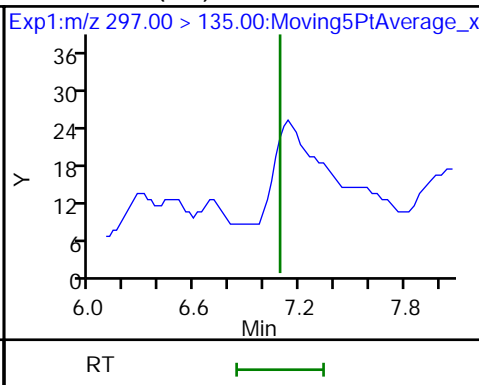
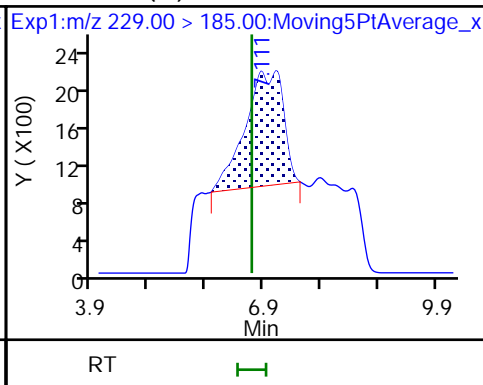
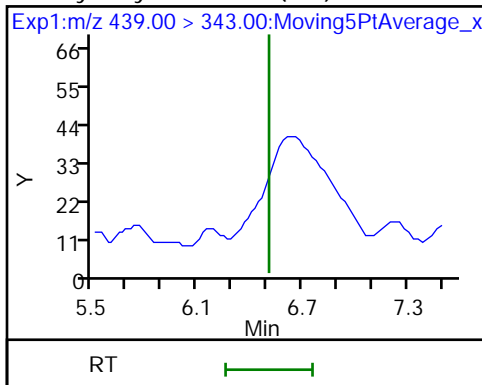
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (M)

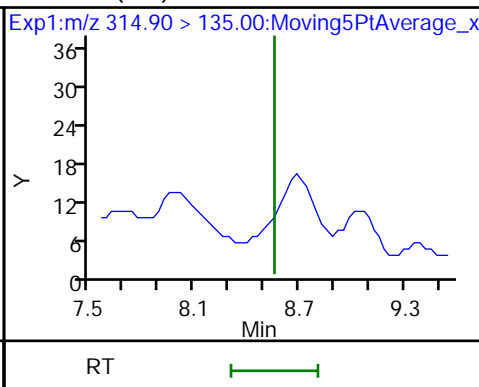
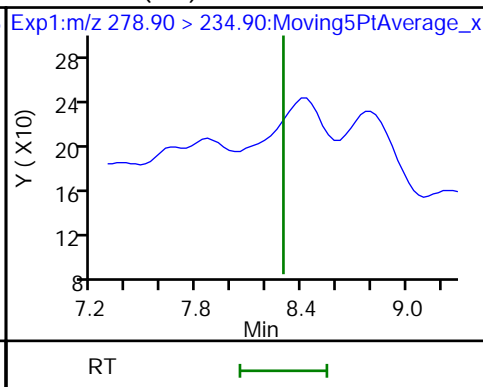
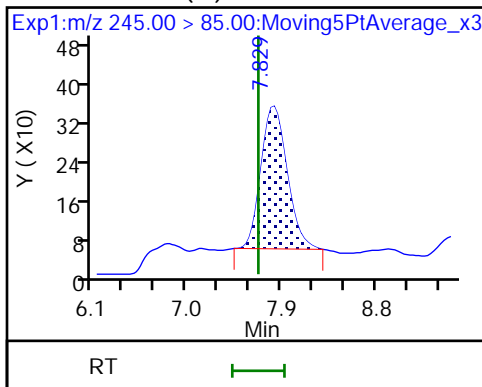
5 NVHOS (ND)



6 PFO2HxA (M)

22 PEPA (ND)

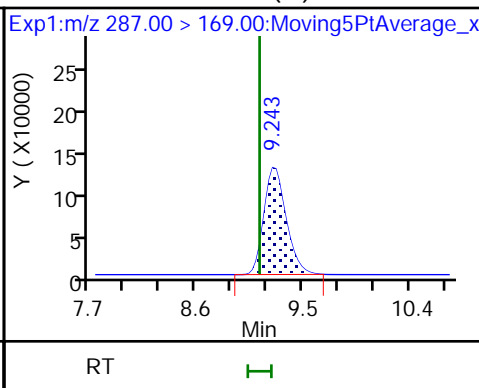
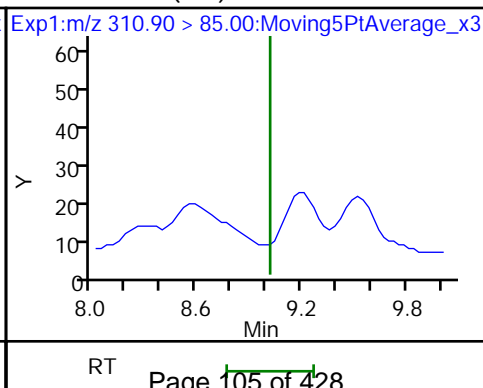
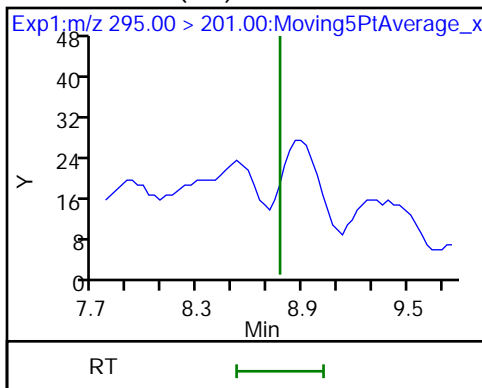
7 PES (ND)

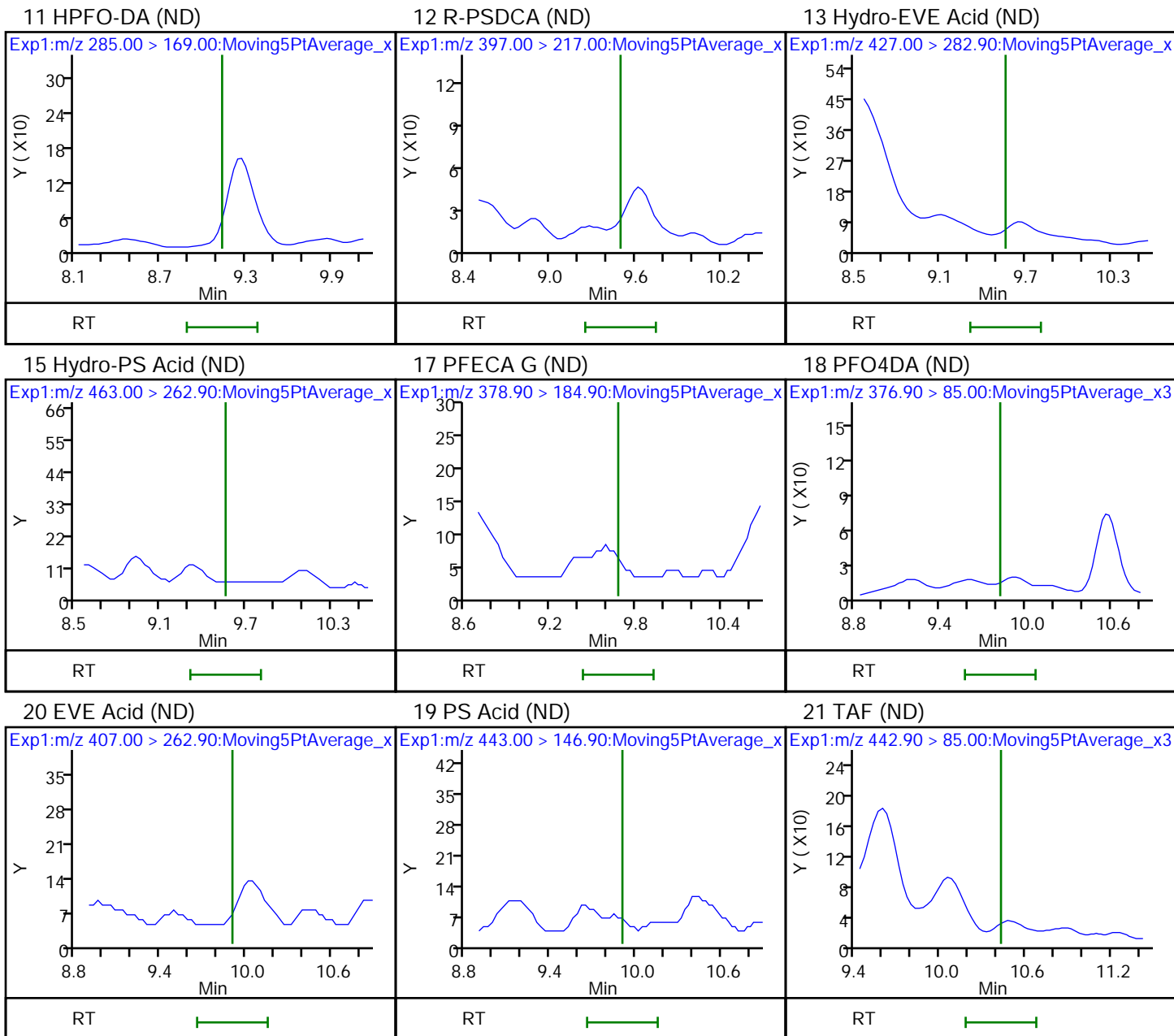


8 PFECA B (ND)

9 PFO3OA (ND)

D 10 13C3 HFPO-DA (M)







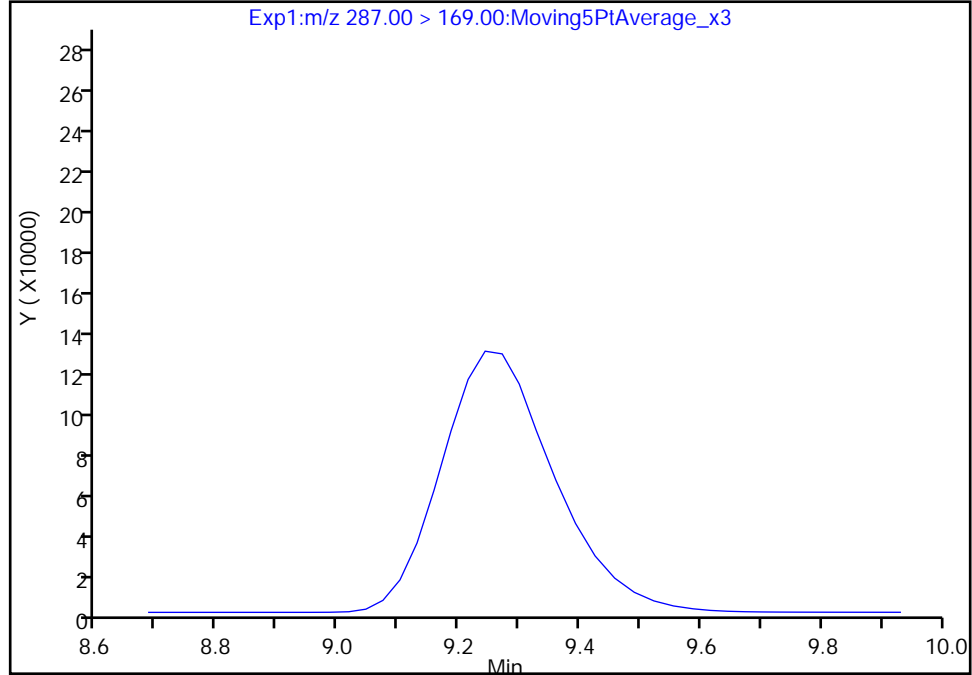
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_050.d  
Injection Date: 10-Mar-2021 05:48:00 Instrument ID: A12  
Lims ID: 320-70652-A-1-A Lab Sample ID: 320-70652-1  
Client ID: SEEP-C-Effluent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 50 Worklist Smp#: 22  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

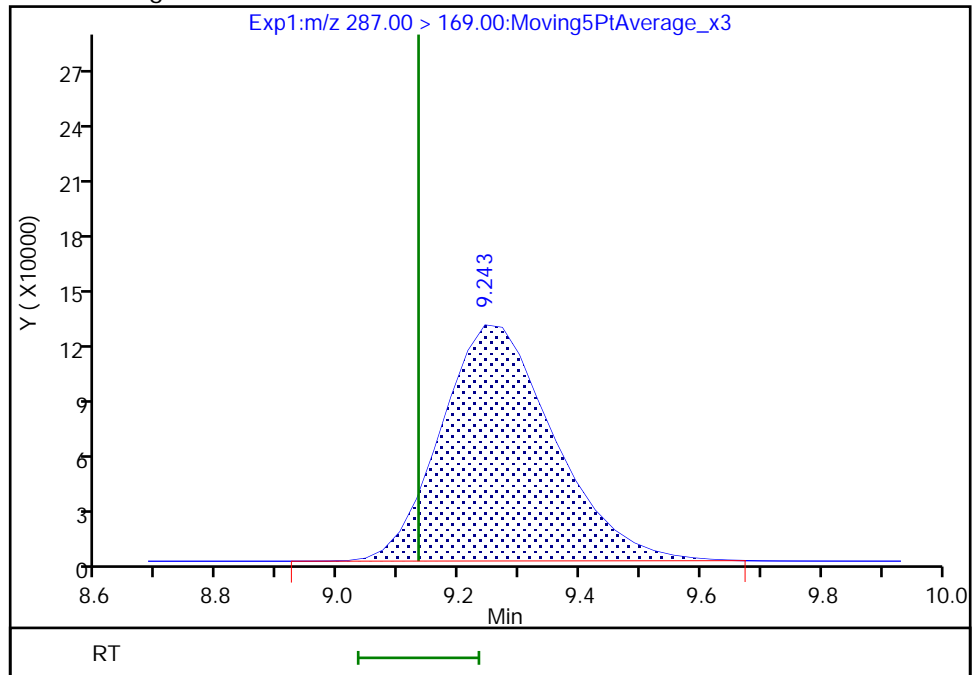
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.24  
Area: 1656225  
Amount: 0.261863  
Amount Units: ng/ml



Reviewer: kwongg, 10-Mar-2021 12:14:11  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

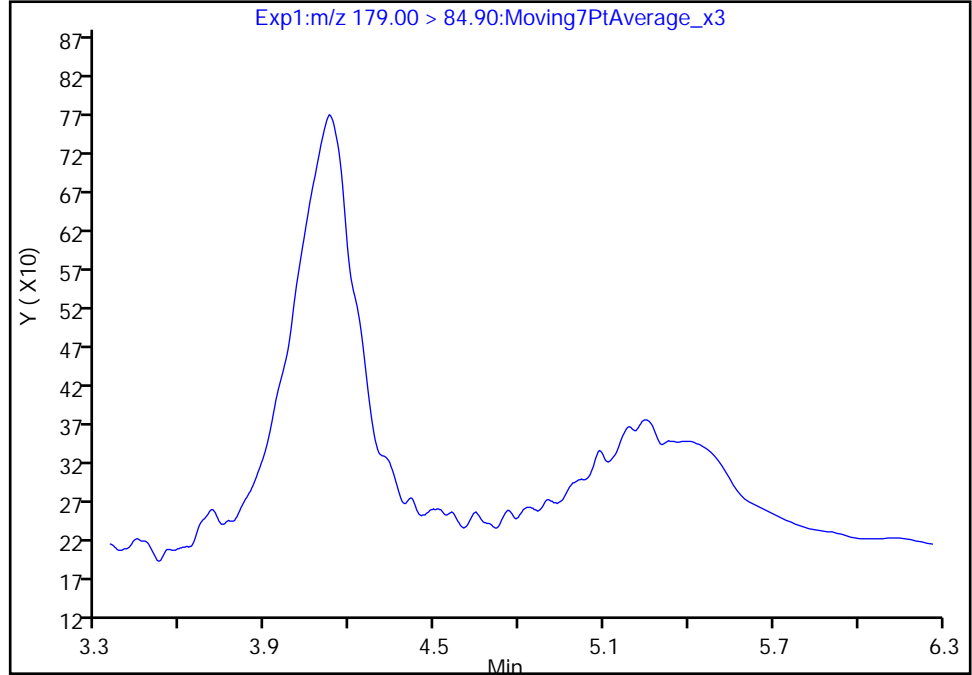
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Injection Date: 10-Mar-2021 05:48:00 Instrument ID: A12  
Lims ID: 320-70652-A-1-A Lab Sample ID: 320-70652-1  
Client ID: SEEP-C-Effluent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 50 Worklist Smp#: 22  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

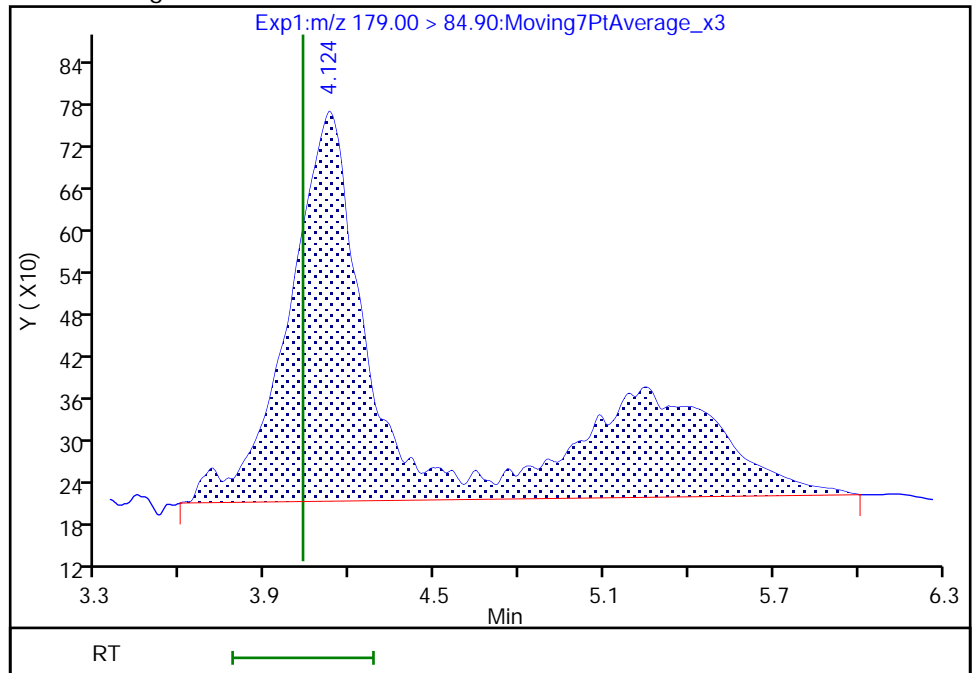
Signal: 1

Not Detected  
Expected RT: 4.03

Processing Integration Results



Manual Integration Results



RT: 4.12  
Area: 15919  
Amount: 0.001418  
Amount Units: ng/ml

Reviewer: kwongg, 10-Mar-2021 12:14:18  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

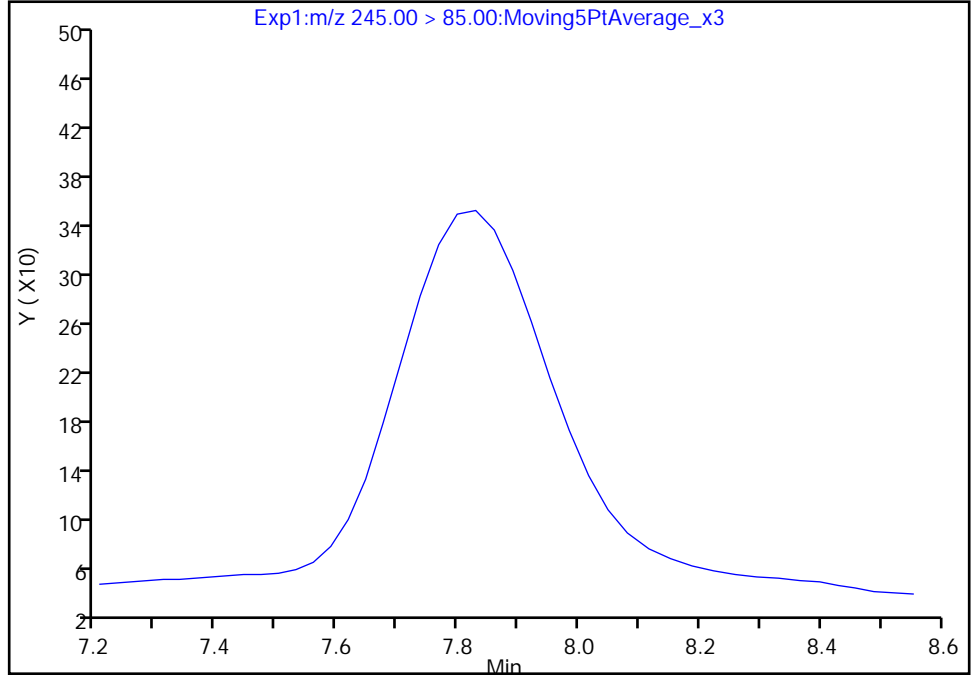
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Injection Date: 10-Mar-2021 05:48:00 Instrument ID: A12  
Lims ID: 320-70652-A-1-A Lab Sample ID: 320-70652-1  
Client ID: SEEP-C-Effluent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 50 Worklist Smp#: 22  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

6 PFO2HxA, CAS: 39492-88-1

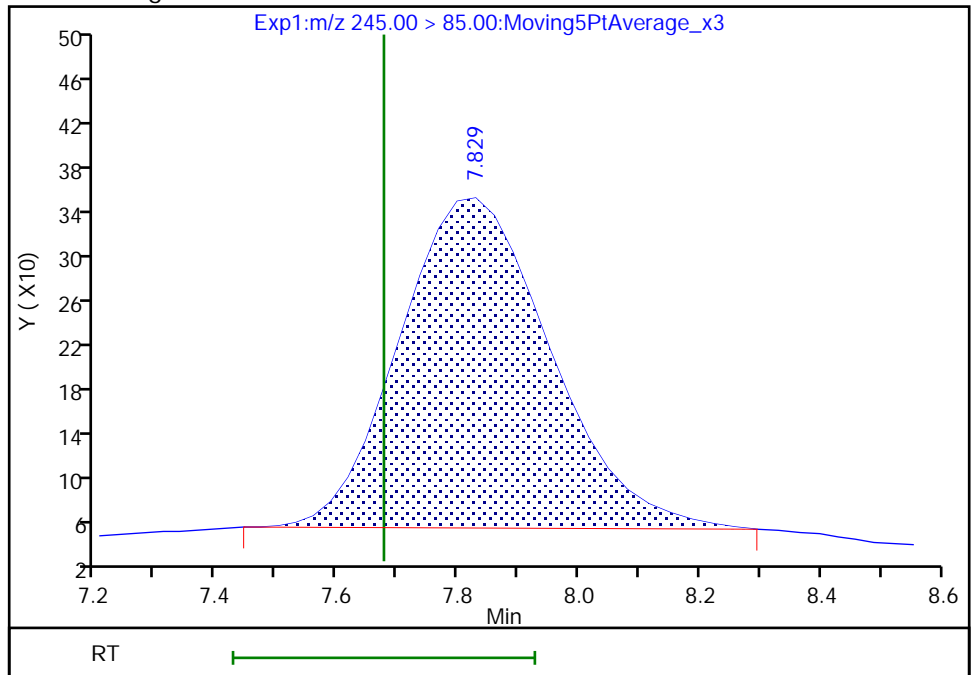
Signal: 1

Not Detected  
Expected RT: 7.68

Processing Integration Results



Manual Integration Results



RT: 7.83  
Area: 5194  
Amount: 0.000413  
Amount Units: ng/ml

Reviewer: kwongg, 10-Mar-2021 12:14:31  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

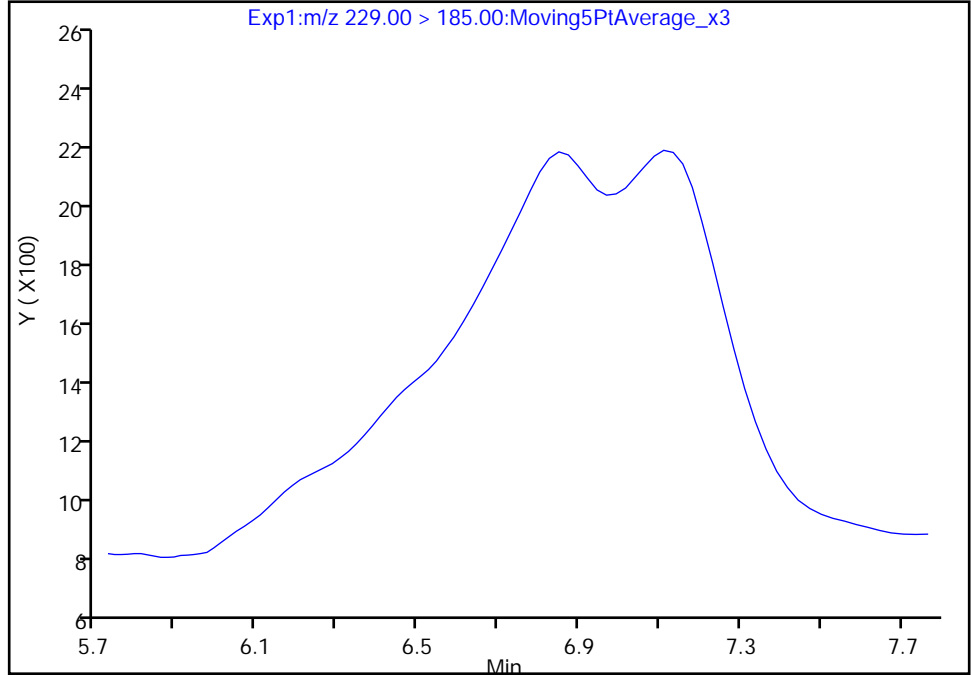
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Injection Date: 10-Mar-2021 05:48:00 Instrument ID: A12  
Lims ID: 320-70652-A-1-A Lab Sample ID: 320-70652-1  
Client ID: SEEP-C-Effluent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 50 Worklist Smp#: 22  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

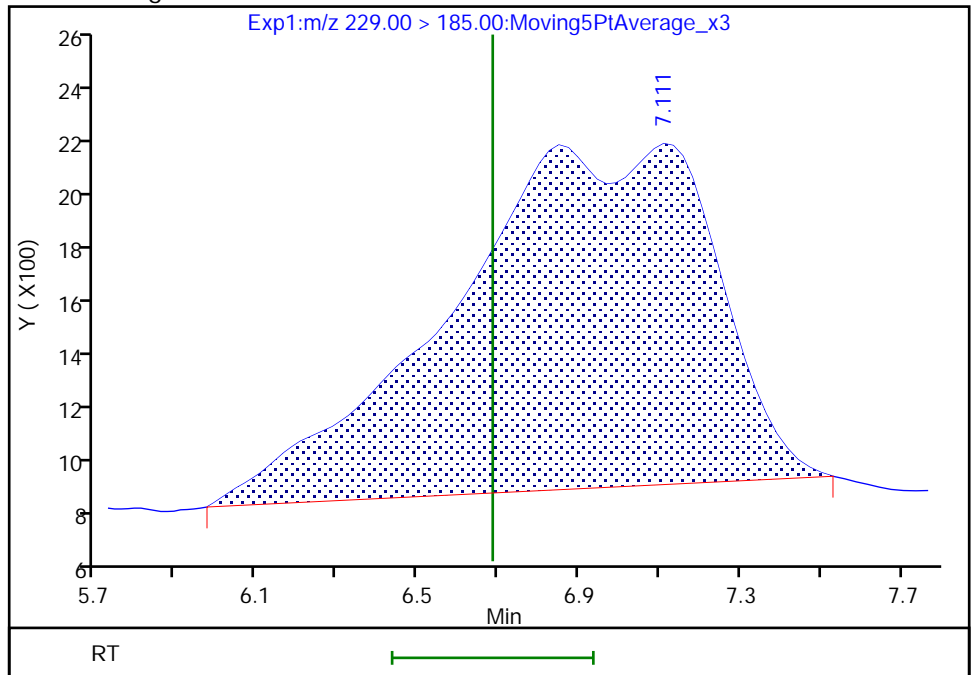
Not Detected  
Expected RT: 6.69

Processing Integration Results



RT: 7.11  
Area: 56593  
Amount: 0.003290  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:14:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-Influent-24-022721 Lab Sample ID: 320-70652-2  
 Matrix: Water Lab File ID: 2021.03.09\_TB3\_A12\_AB\_051.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/27/2021 16:00  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 0.025 (mL) Date Analyzed: 03/10/2021 06:05  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 468770 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.065		0.017	
13252-13-6	HFPO-DA	5.6		0.081	
773804-62-9	Hydro-EVE Acid	0.38		0.014	
2416366-19-1	Hydrolyzed PSDA	0.63		0.038	
749836-20-2	Hydro-PS Acid	0.15		0.0061	
1132933-86-8	NVHOS	0.26		0.015	
267239-61-2	PEPA	1.2		0.020	
113507-82-7	PES	<0.0067		0.0067	
151772-58-6	PFECA B	<0.027		0.027	
801212-59-9	PFECA G	<0.048		0.048	
674-13-5	PFMOAA	23		0.080	
39492-88-1	PFO2HxA	8.4		0.027	
39492-89-2	PFO3OA	3.0		0.039	
39492-90-5	PFO4DA	0.82		0.059	
39492-91-6	PFO5DA	<0.078		0.078	
13140-29-9	PMPA	3.8		0.62	
29311-67-9	PS Acid	<0.020		0.020	
2416366-22-6	R-EVE	0.37		0.072	
2416366-18-0	R-PSDA	0.38		0.071	
2416366-21-5	R-PSDCA	<0.017		0.017	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	109		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_051.d  
 Lims ID: 320-70652-A-2-A  
 Client ID: SEEP-C-Influent-24-022721  
 Sample Type: Client  
 Inject. Date: 10-Mar-2021 06:05:38 ALS Bottle#: 51 Worklist Smp#: 23  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70652-a-2-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:15:28 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 12:15:28  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.119	4.031	0.088		1276071	0.1137		119		M
2 R-EVE										
405.00 > 217.00	6.510	6.388	0.122		10832	0.001831		176		
3 R-PSDA										M
440.90 > 241.00	6.550	6.448	0.102		5141	0.001918		77.8		M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.617	6.508	0.109		31617	0.003131		533		
23 PMPA										
229.00 > 185.00	6.830	6.686	0.144		324253	0.0189		239		
5 NVHOS										
297.00 > 135.00	7.209	7.088	0.121		6938	0.001309		127		
6 PFO2HxA										
245.00 > 85.00	7.802	7.677	0.125		527708	0.0419		5173		
22 PEPA										
278.90 > 234.90	8.401	8.296	0.105		31069	0.006034		137		
9 PFO3OA										
310.90 > 85.00	9.133	9.020	0.113		51656	0.0152		1367		
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.246	9.133	0.113		1717428	0.2715		109	33661	M
11 HPFO-DA										
285.00 > 169.00	9.246	9.133	0.113	1.000	197132	0.0278		5130		
13 Hydro-EVE Acid										
427.00 > 282.90	9.673	9.558	0.115		123157	0.001888		964		
15 Hydro-PS Acid										
463.00 > 262.90	9.673	9.558	0.115		17751	0.000753		401		
18 PFO4DA										
376.90 > 85.00	9.931	9.820	0.111		21186	0.004078		423		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
20 EVE Acid	407.00 > 262.90	10.017	9.906	0.111	12421	0.000323			338	

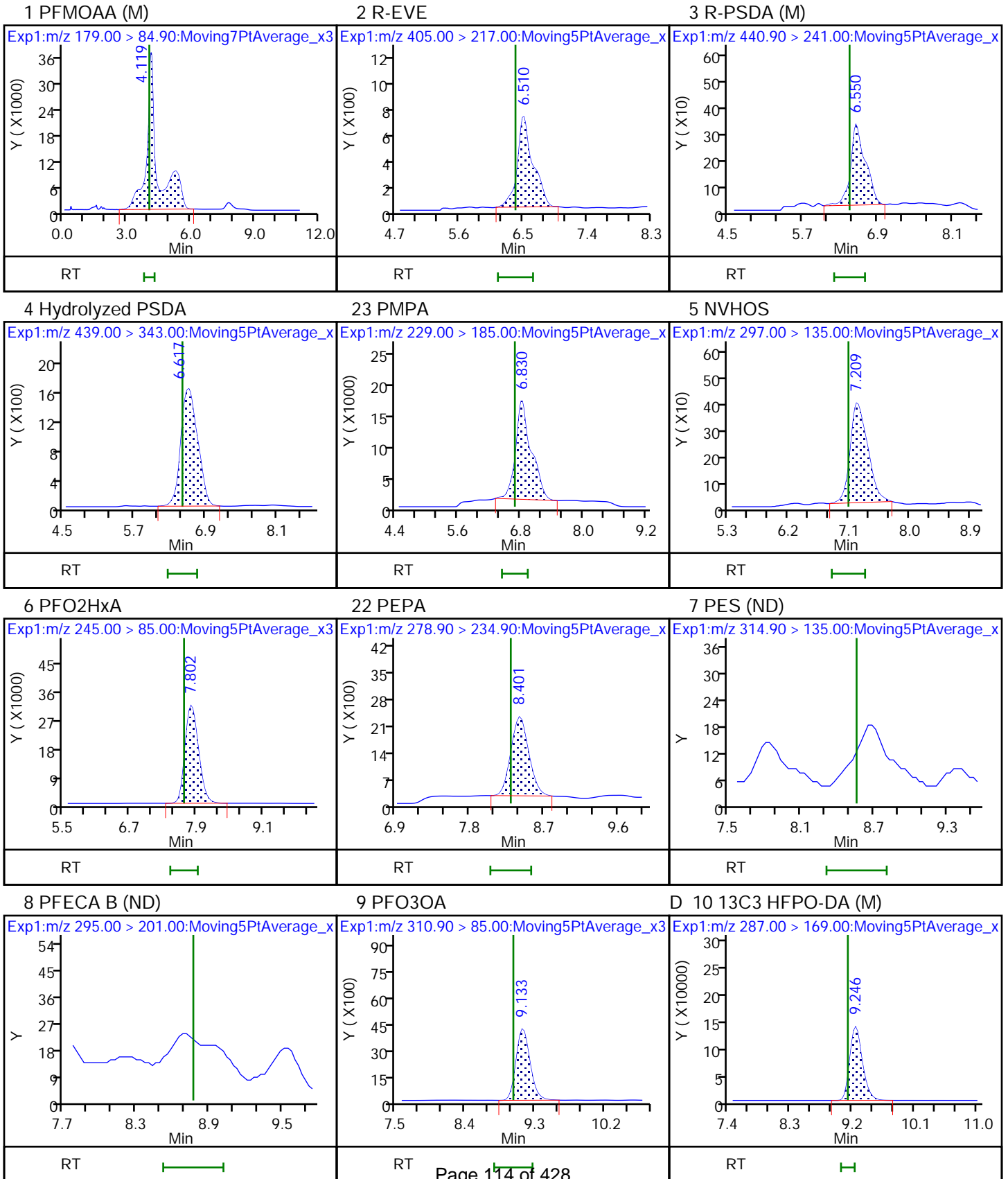
**QC Flag Legend**

Processing Flags

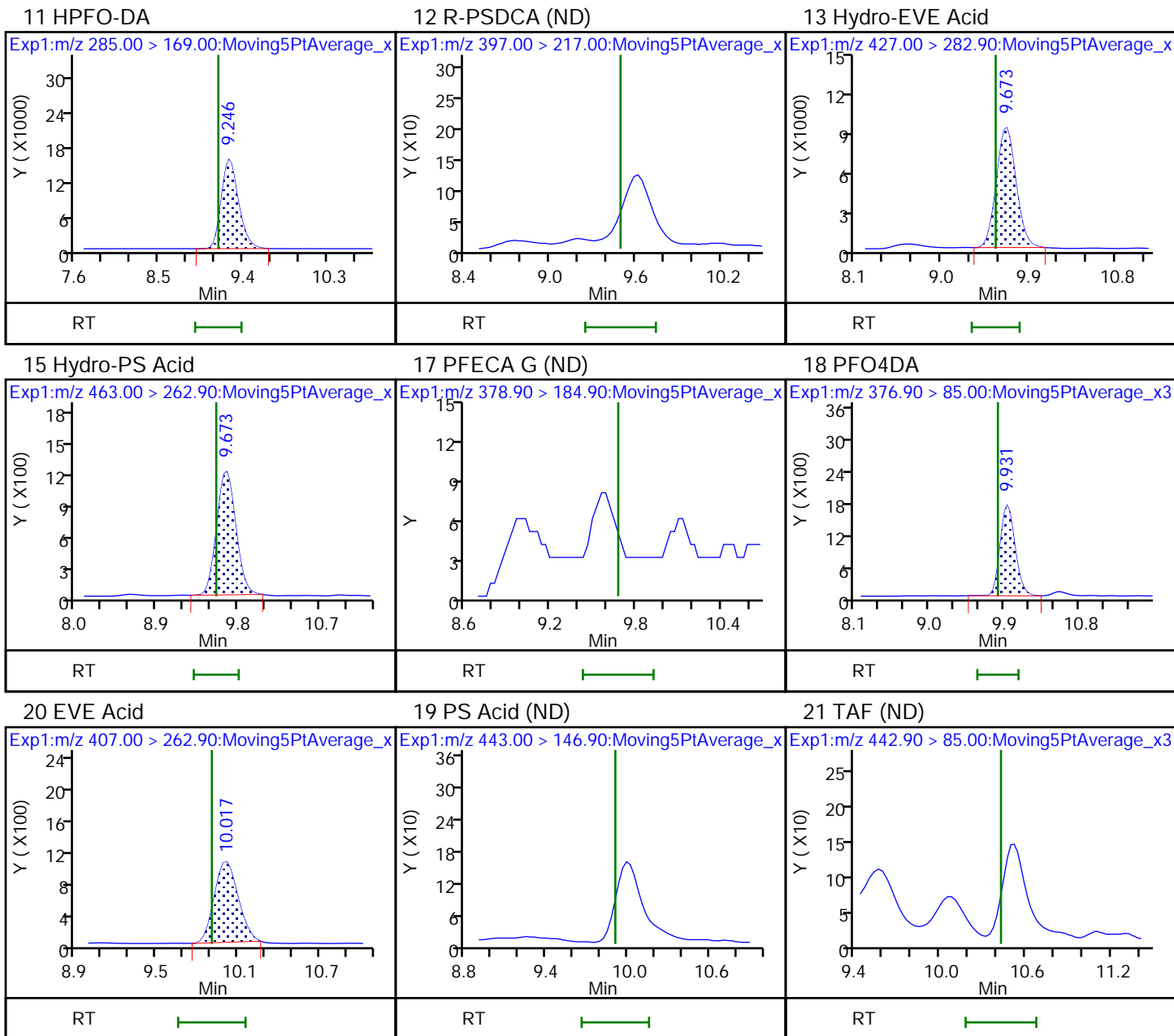
Review Flags

M - Manually Integrated

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Injection Date: 10-Mar-2021 06:05:38 Instrument ID: A12  
Lims ID: 320-70652-A-2-A Lab Sample ID: 320-70652-2  
Client ID: SEEP-C-Influent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 51 Worklist Smp#: 23  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

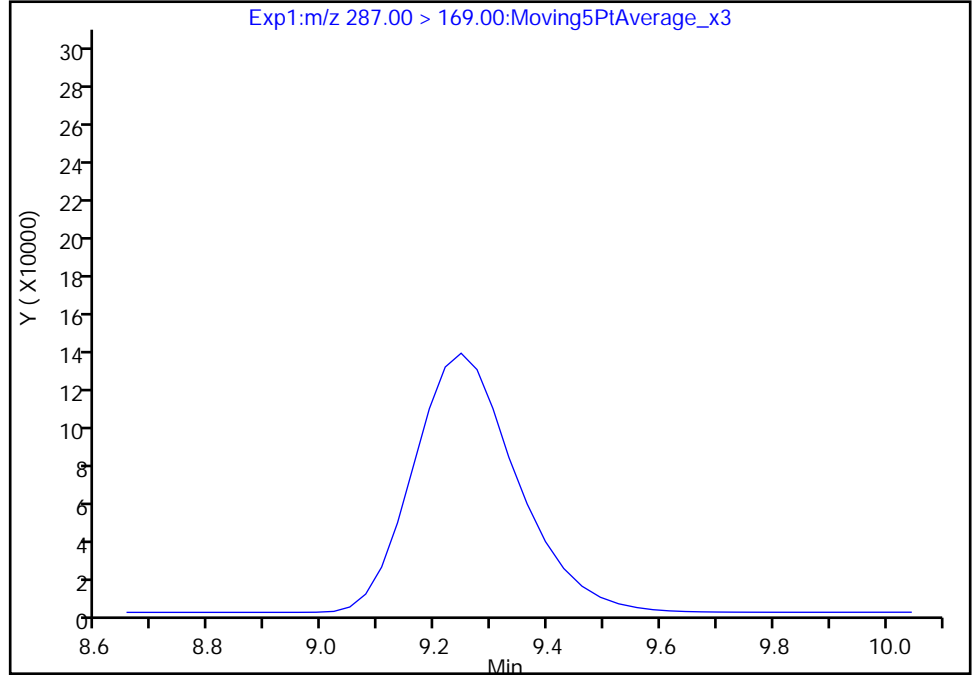
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Injection Date: 10-Mar-2021 06:05:38 Instrument ID: A12  
Lims ID: 320-70652-A-2-A Lab Sample ID: 320-70652-2  
Client ID: SEEP-C-Influent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 51 Worklist Smp#: 23  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

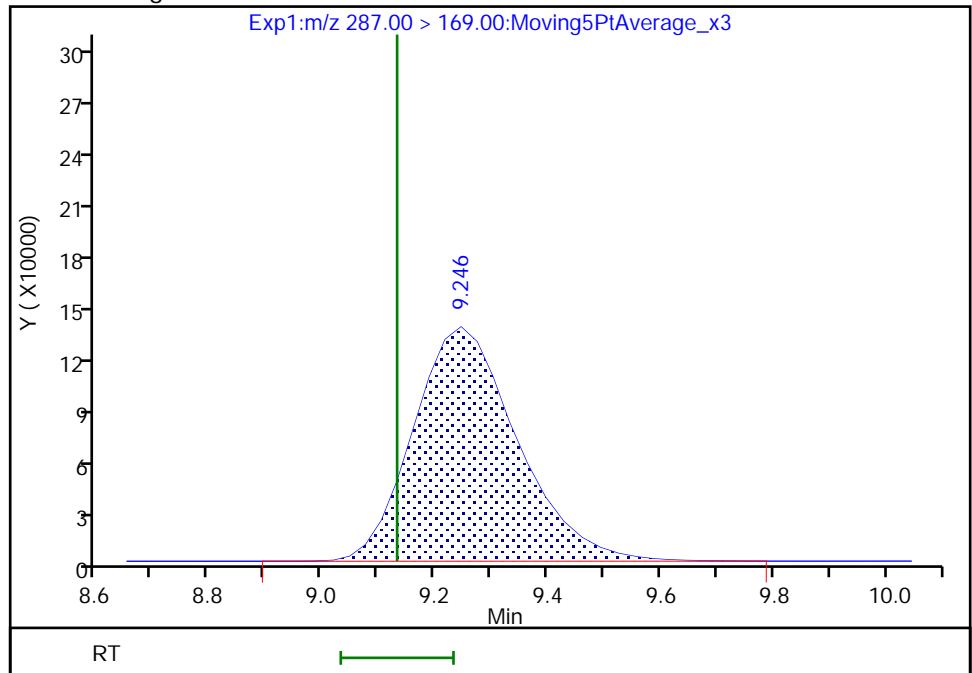
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.25  
Area: 1717428  
Amount: 0.271540  
Amount Units: ng/ml



Reviewer: kwongg, 10-Mar-2021 12:14:55  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

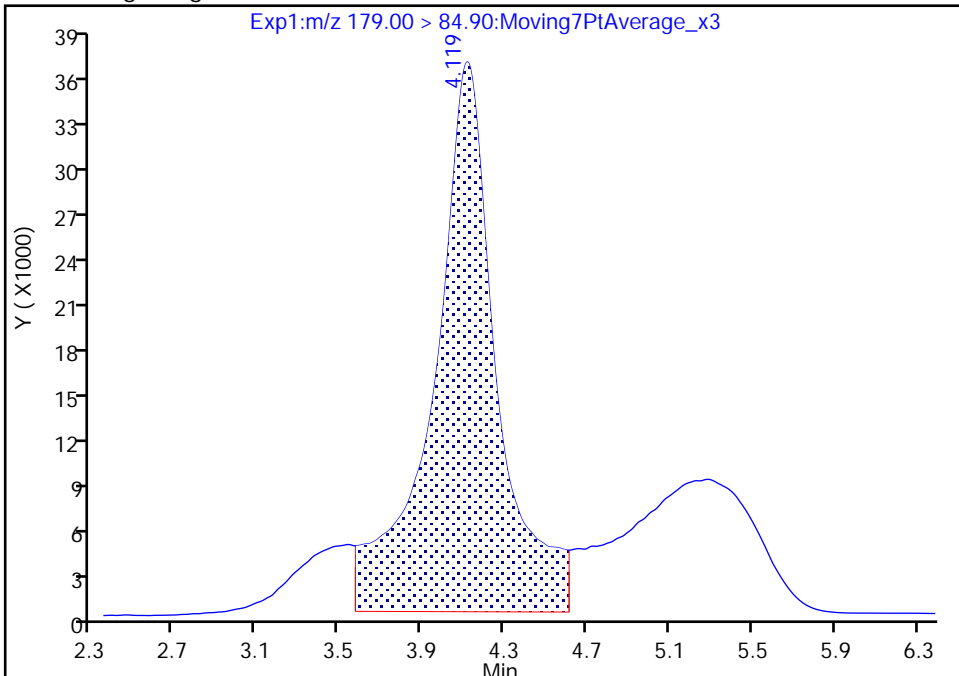
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Injection Date: 10-Mar-2021 06:05:38 Instrument ID: A12  
Lims ID: 320-70652-A-2-A Lab Sample ID: 320-70652-2  
Client ID: SEEP-C-Influent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 51 Worklist Smp#: 23  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

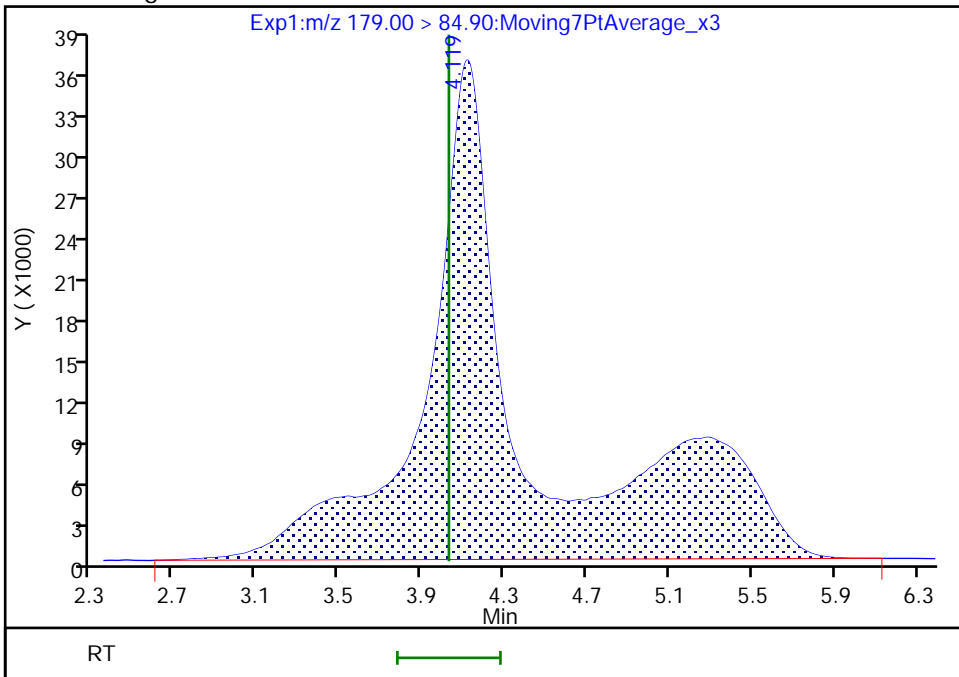
RT: 4.12  
Area: 770393  
Amount: 0.068625  
Amount Units: ng/ml

Processing Integration Results



RT: 4.12  
Area: 1276071  
Amount: 0.113670  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:15:02  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

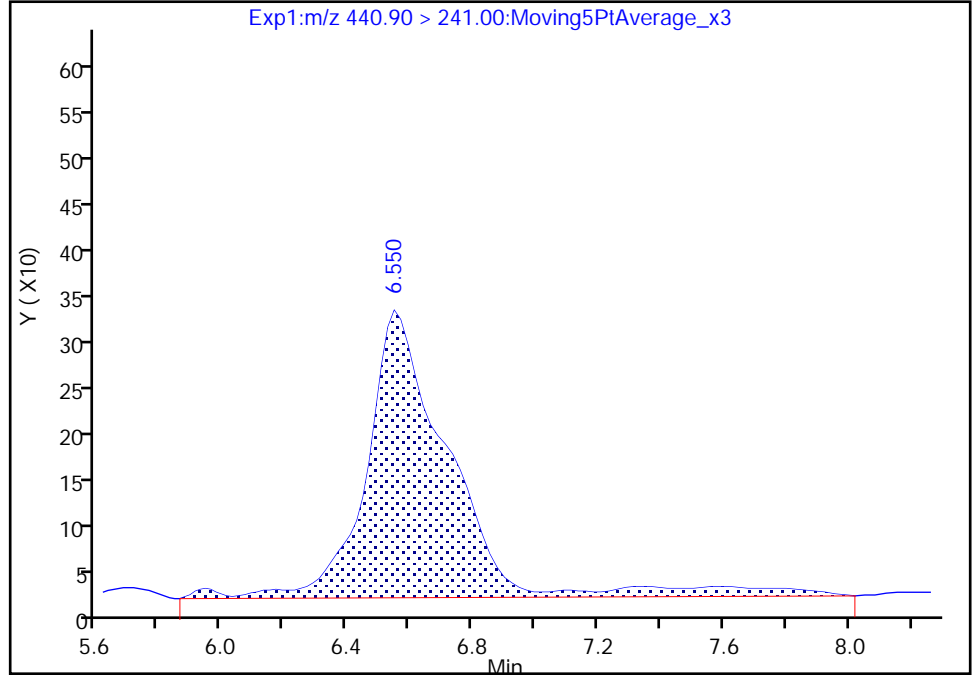
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Injection Date: 10-Mar-2021 06:05:38 Instrument ID: A12  
Lims ID: 320-70652-A-2-A Lab Sample ID: 320-70652-2  
Client ID: SEEP-C-Influent-24-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 51 Worklist Smp#: 23  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

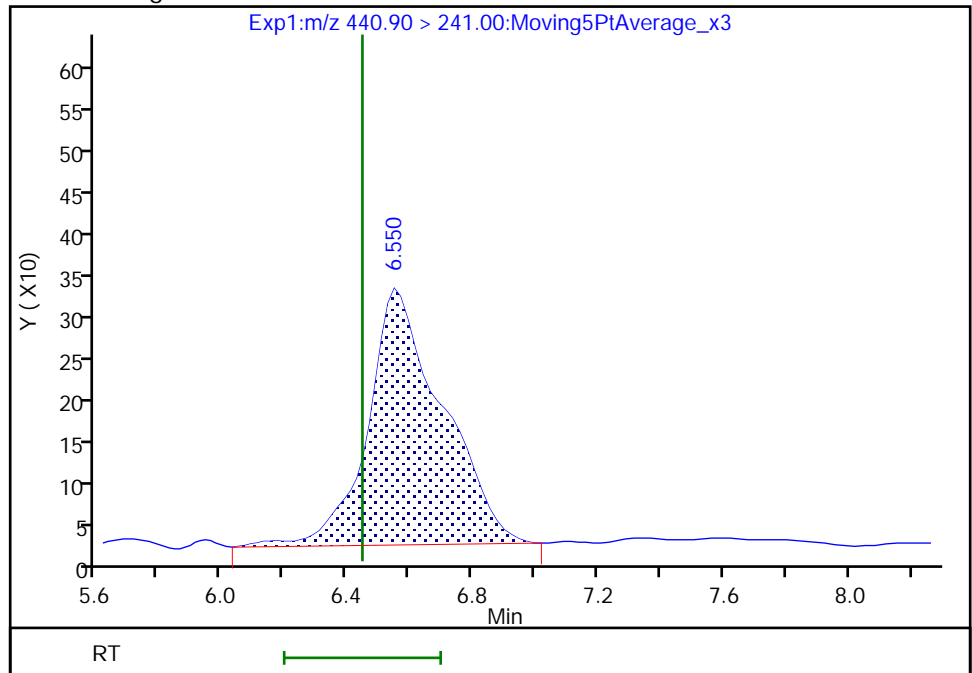
RT: 6.55  
Area: 5865  
Amount: 0.002189  
Amount Units: ng/ml

Processing Integration Results



RT: 6.55  
Area: 5141  
Amount: 0.001918  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:15:11  
Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: Seep-C-EQBLK-ISCO-022721 Lab Sample ID: 320-70652-3  
 Matrix: Water Lab File ID: 2021.03.09\_TB3\_A12\_AB\_052.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/27/2021 16:45  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 03/10/2021 06:23  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 468770 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	102		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_052.d  
 Lims ID: 320-70652-A-3-A  
 Client ID: Seep-C-EQBLK-ISCO-022721  
 Sample Type: Client  
 Inject. Date: 10-Mar-2021 06:23:12 ALS Bottle#: 52 Worklist Smp#: 24  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70652-a-3-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:32:29 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 12:32:29  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
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D 10 13C3 HFPO-DA  
 287.00 > 169.00 9.243 9.133 0.110 1615995 0.2555 102 41174 M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_052.d

Injection Date: 10-Mar-2021 06:23:12

Instrument ID: A12

Lims ID: 320-70652-A-3-A

Lab Sample ID: 320-70652-3

Client ID: Seep-C-EQBLK-ISCO-022721

Operator ID: Sac\_inst\_A12

ALS Bottle#: 52

Worklist Smp#: 24

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

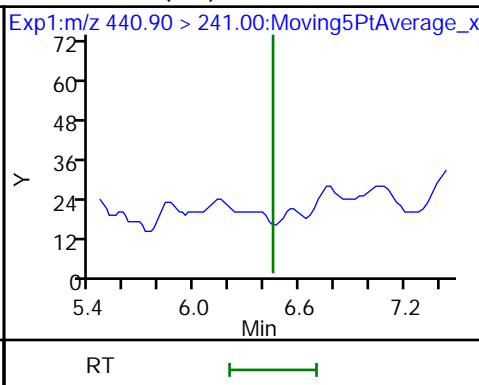
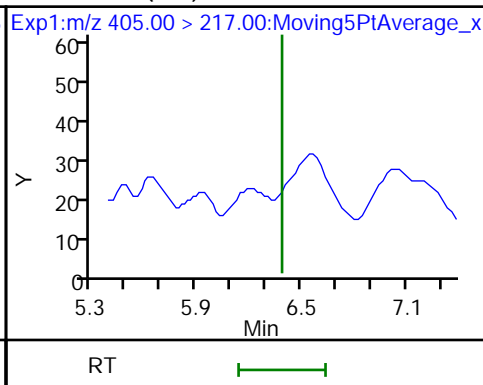
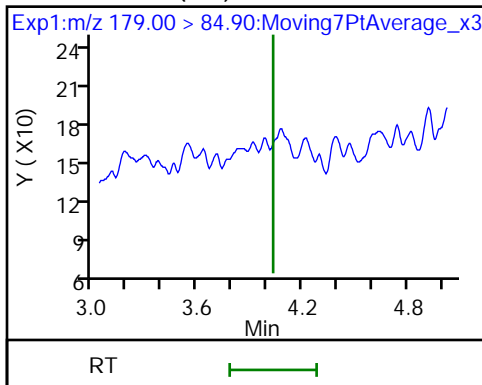
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

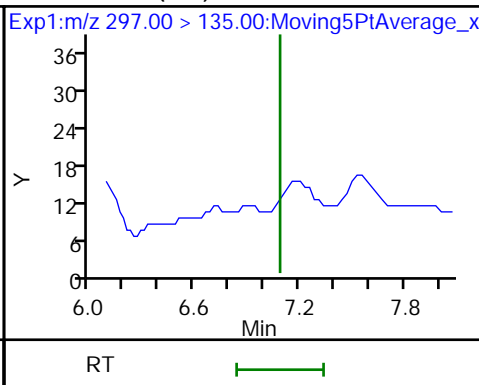
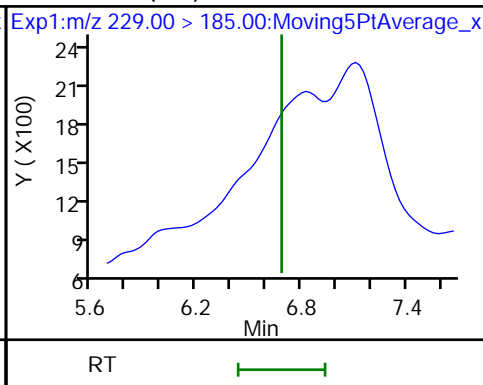
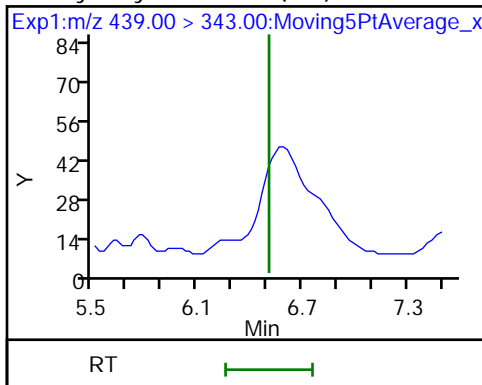
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (ND)

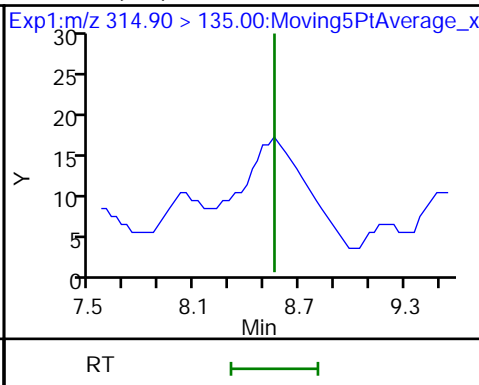
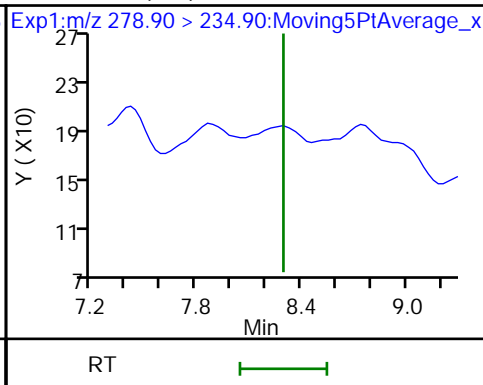
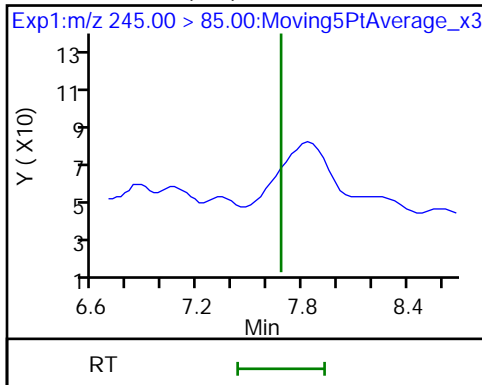
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

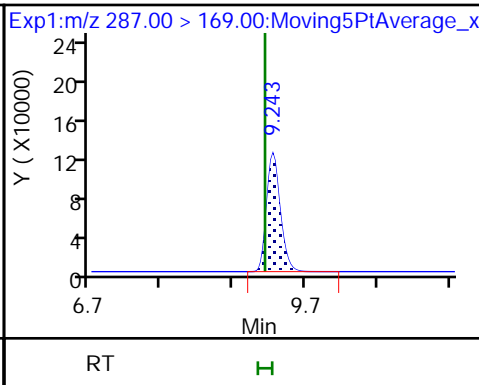
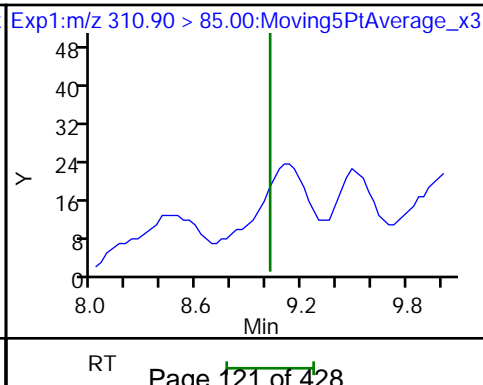
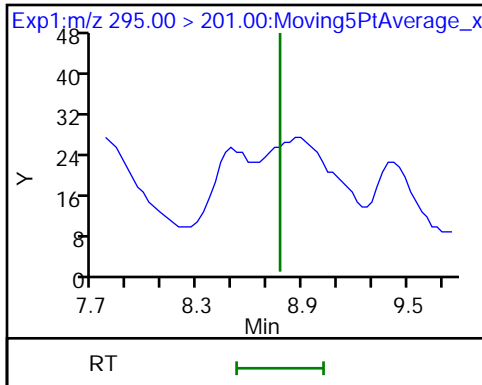
7 PES (ND)

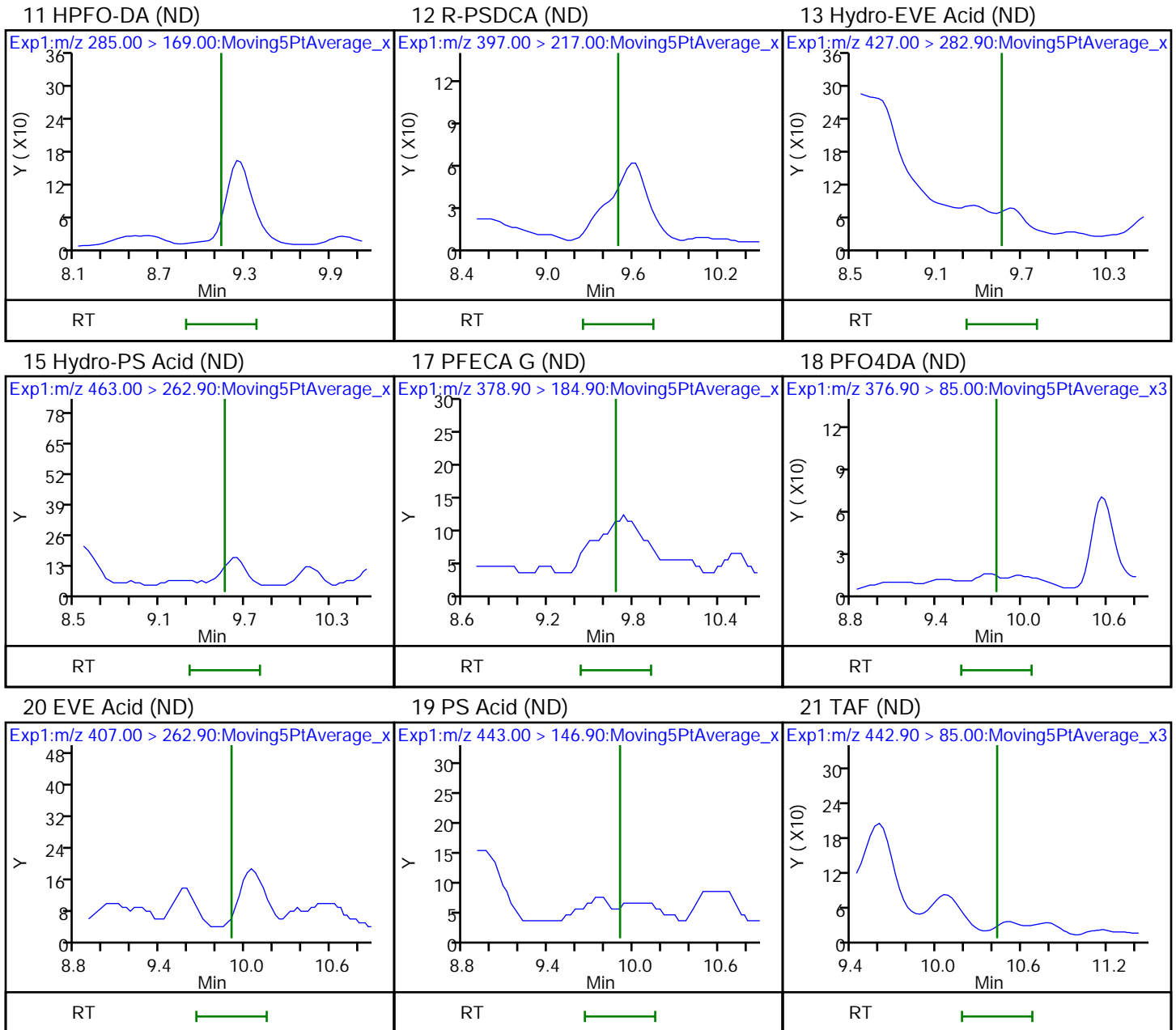


8 PFECA B (ND)

9 PFO3OA (ND)

D 10 13C3 HFPO-DA (M)







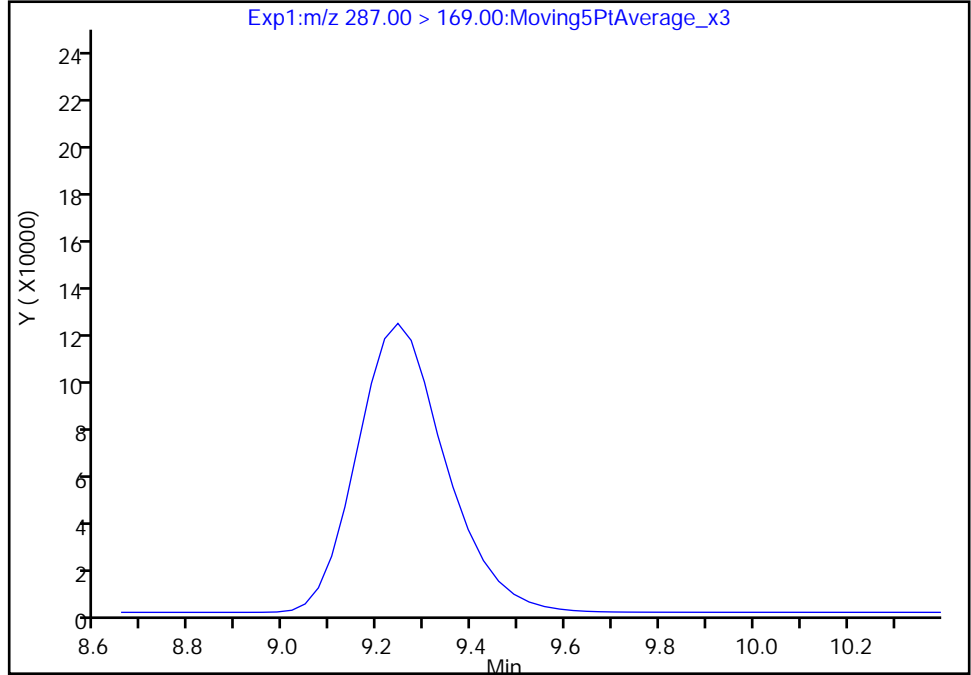
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_052.d  
Injection Date: 10-Mar-2021 06:23:12 Instrument ID: A12  
Lims ID: 320-70652-A-3-A Lab Sample ID: 320-70652-3  
Client ID: Seep-C-EQBLK-ISCO-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 52 Worklist Smp#: 24  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

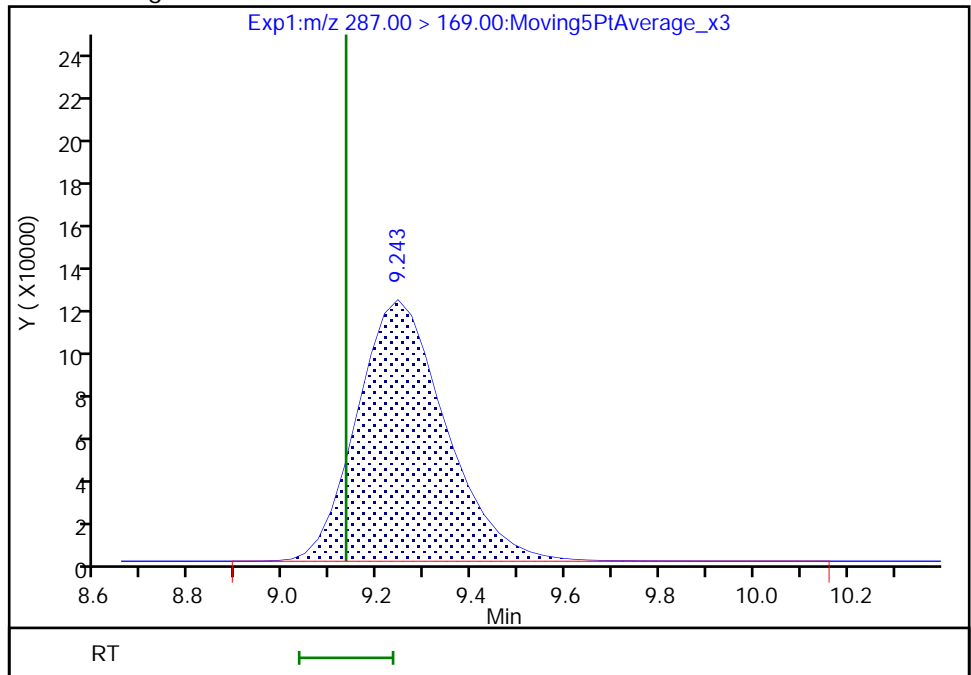
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.24  
Area: 1615995  
Amount: 0.255502  
Amount Units: ng/ml



Reviewer: kwongg, 10-Mar-2021 12:32:08  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 123 of 428

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: SEEP-C-FBLK-022721 Lab Sample ID: 320-70652-4  
 Matrix: Water Lab File ID: 2021.03.09\_TB3\_A12\_AB\_053.d  
 Analysis Method: Chemours (TB3+) Date Collected: 02/27/2021 16:50  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 03/10/2021 06:40  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 468770 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	106		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_053.d  
 Lims ID: 320-70652-A-4-A  
 Client ID: SEEP-C-FBLK-022721  
 Sample Type: Client  
 Inject. Date: 10-Mar-2021 06:40:47 ALS Bottle#: 53 Worklist Smp#: 25  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: 320-70652-a-4-a  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:32:50 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 12:32:50  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 PMPA										M
229.00 > 185.00	7.087	6.686	0.401		56566	0.003288			27.2	M
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.215	9.133	0.082		1675956	0.2650		106	32333	

**QC Flag Legend**

- Processing Flags
- Review Flags
- M - Manually Integrated

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_053.d

Injection Date: 10-Mar-2021 06:40:47

Instrument ID: A12

Lims ID: 320-70652-A-4-A

Lab Sample ID: 320-70652-4

Client ID: SEEP-C-FBLK-022721

Operator ID: Sac\_inst\_A12

ALS Bottle#: 53

Worklist Smp#: 25

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

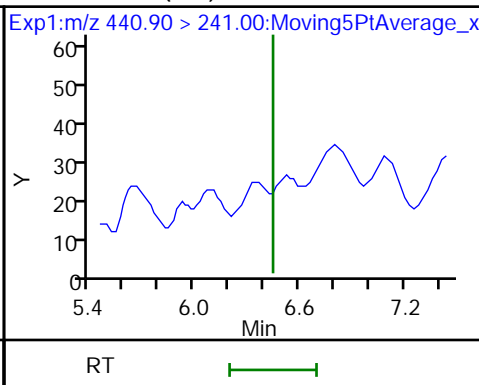
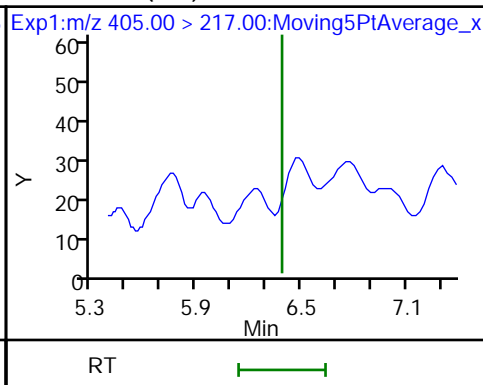
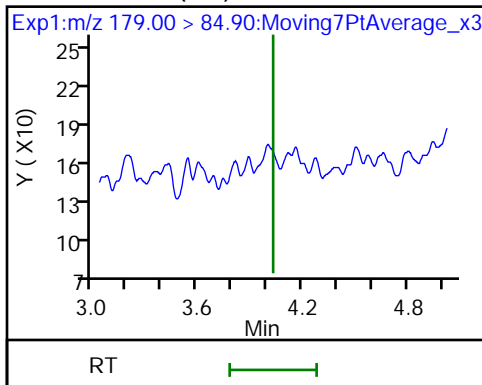
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (ND)

2 R-EVE (ND)

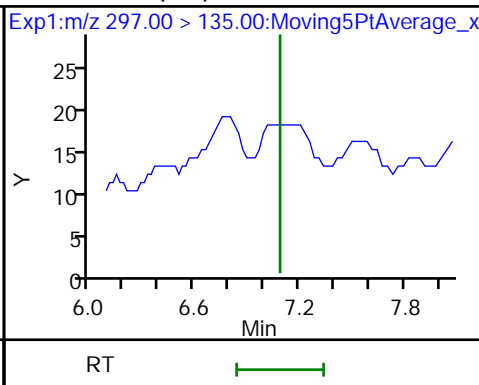
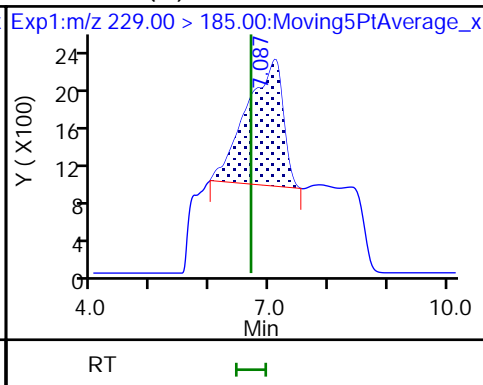
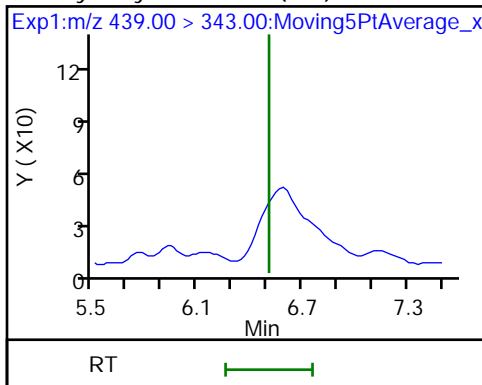
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (M)

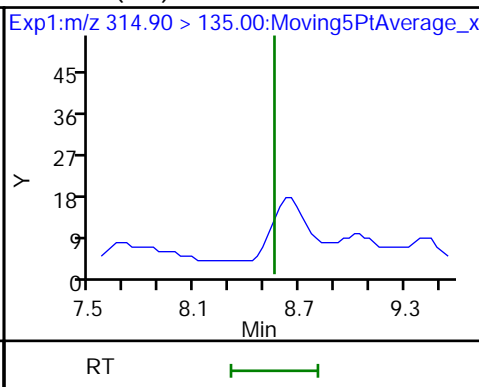
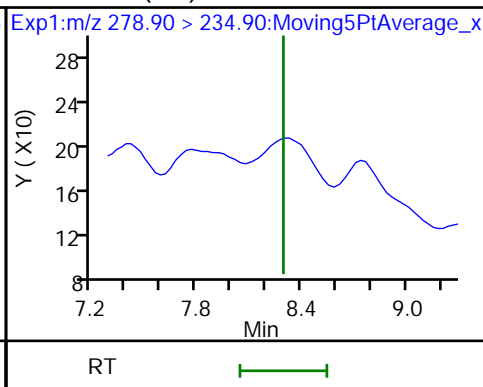
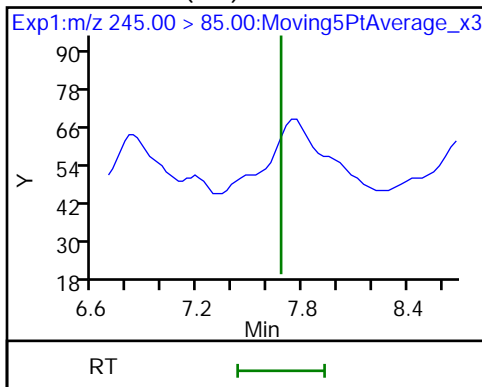
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

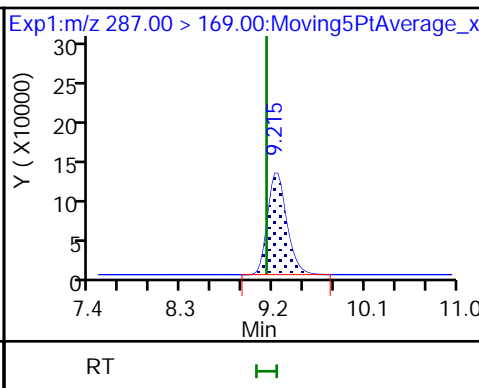
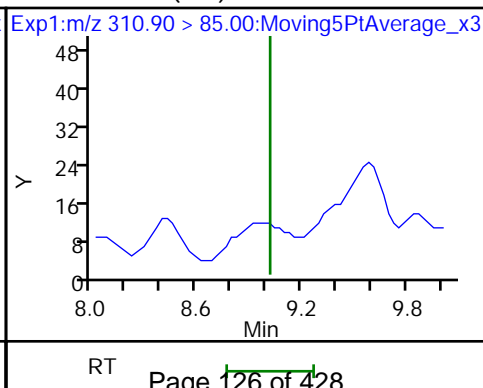
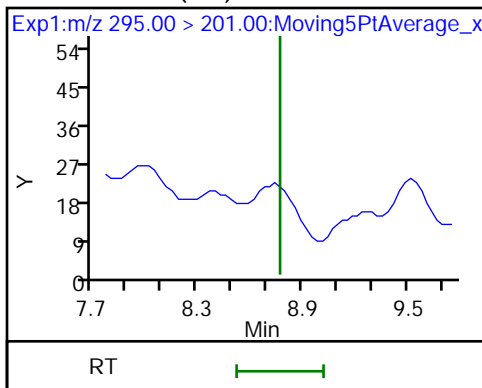
7 PES (ND)

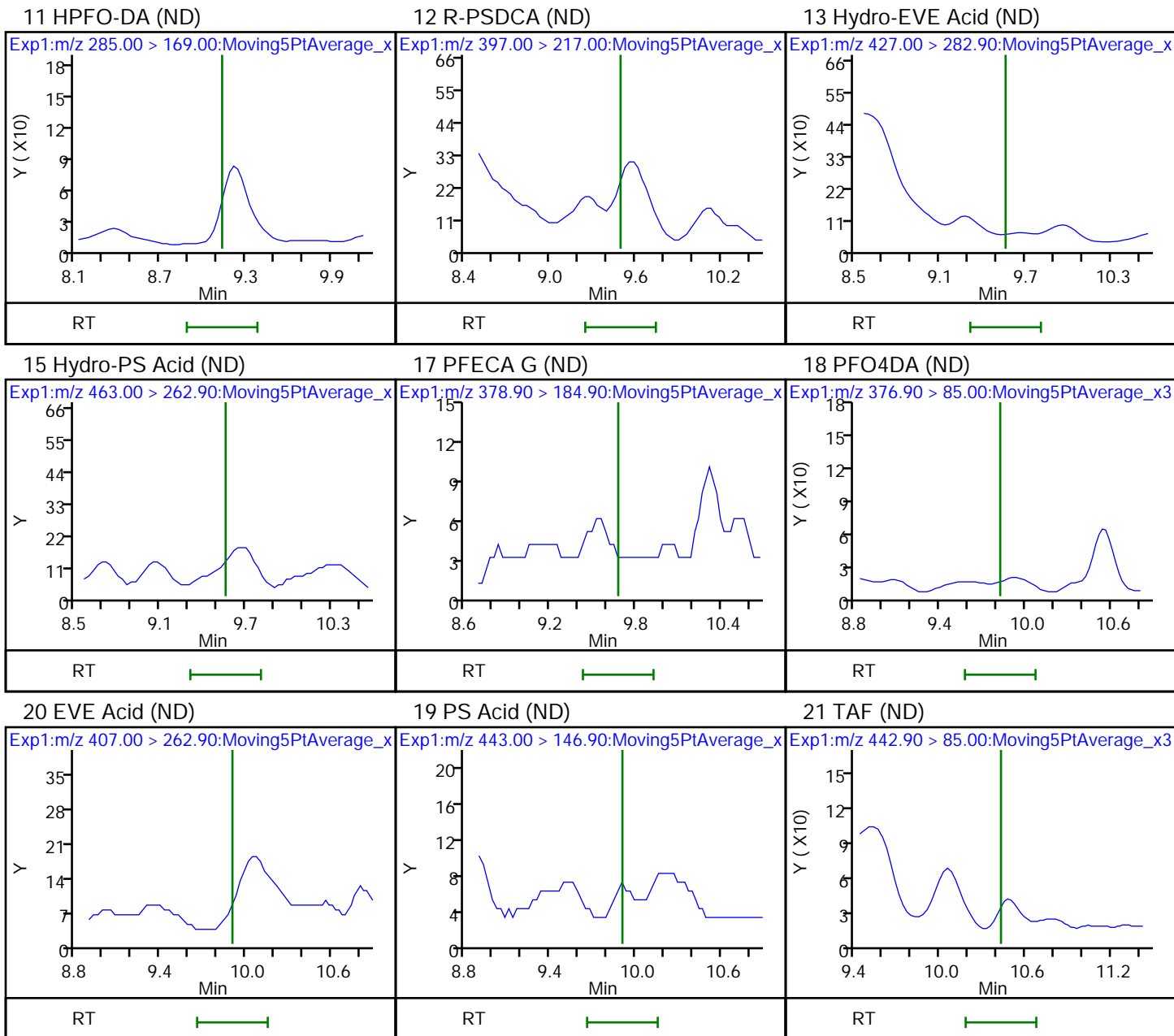


8 PFECA B (ND)

9 PFO3OA (ND)

D 10 13C3 HFPO-DA





Eurofins TestAmerica, Sacramento

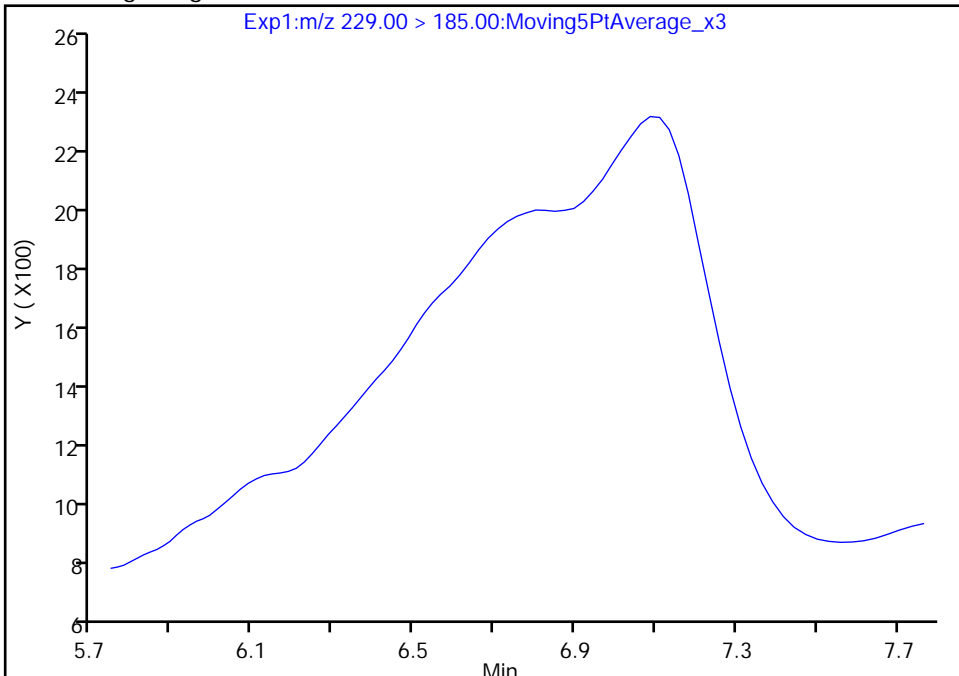
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_053.d  
Injection Date: 10-Mar-2021 06:40:47 Instrument ID: A12  
Lims ID: 320-70652-A-4-A Lab Sample ID: 320-70652-4  
Client ID: SEEP-C-FBLK-022721  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 53 Worklist Smp#: 25  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

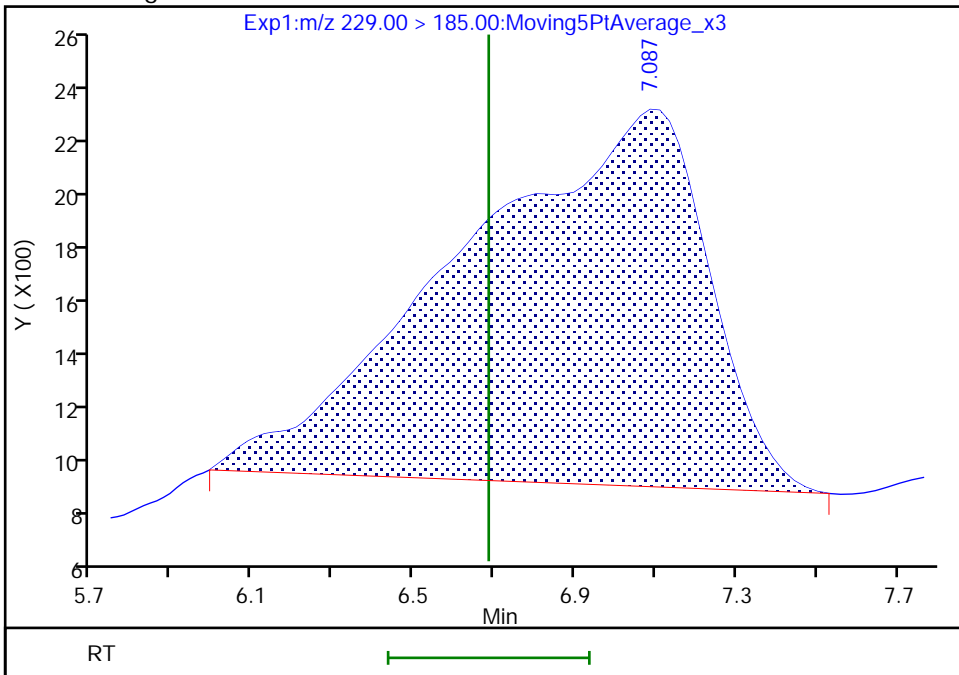
Not Detected  
Expected RT: 6.69

Processing Integration Results



RT: 7.09  
Area: 56566  
Amount: 0.003288  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:32:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 128 of 428

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-468521/2	2021.03.08_A12_TB3_ICAL_003.d
Level 2	IC 320-468521/3	2021.03.08_A12_TB3_ICAL_004.d
Level 3	IC 320-468521/4	2021.03.08_A12_TB3_ICAL_005.d
Level 4	IC 320-468521/5	2021.03.08_A12_TB3_ICAL_006.d
Level 5	IC 320-468521/6	2021.03.08_A12_TB3_ICAL_007.d
Level 6	IC 320-468521/8	2021.03.08_A12_TB3_ICAL_009.d
Level 7	IC 320-468521/10	2021.03.08_A12_TB3_ICAL_011.d
Level 8	IC 320-468521/12	2021.03.08_A12_TB3_ICAL_013.d
Level 9	IC 320-468521/14	2021.03.08_A12_TB3_ICAL_015.d
Level 10	IC 320-468521/15	2021.03.08_A12_TB3_ICAL_016.d

ANALYTE	LVL										RT WINDOW	AVG RT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10		
PFMOAA	4.337	4.352	4.404	4.079	4.327	4.346	4.258	3.741	4.275	4.154	4.087 - 4.587	4.227
R-EVE	6.591	6.590	6.566	6.528	6.546	6.549	6.488	6.394	6.450	6.426	6.341 - 6.841	6.513
R-PSDA	6.639	6.637	6.613	6.568	6.613	6.616	6.548	6.434	+++++	+++++	6.389 - 6.889	6.584
Hydrolyzed PSDA	6.710	6.684	6.684	6.639	6.661	6.663	6.615	6.514	6.569	6.546	6.460 - 6.960	6.629
PMPA	+++++	+++++	6.874	6.829	6.850	6.853	6.805	6.692	6.759	6.731	6.626 - 7.126	6.799
NVHOS	7.260	7.258	7.232	7.208	7.232	7.235	7.184	7.095	7.138	7.110	7.010 - 7.510	7.195
PFO2HxA	7.862	7.860	7.798	7.800	7.829	7.832	7.770	7.716	7.710	7.706	7.612 - 8.112	7.788
PEPA	8.431	8.430	8.399	8.398	8.399	8.400	8.370	8.341	8.300	8.294	8.181 - 8.681	8.376
PES	8.715	8.685	8.653	8.649	8.653	8.683	8.620	8.601	8.590	8.554	8.465 - 8.965	8.640
PFECA B	8.925	8.922	8.890	8.891	8.890	8.892	8.860	8.838	8.800	8.797	8.675 - 9.175	8.871
PFO3OA	9.190	9.158	9.130	9.130	9.130	9.160	9.104	9.085	9.049	9.045	8.940 - 9.440	9.118
HFPO-DA	9.302	9.271	9.243	9.243	9.243	9.273	9.217	9.198	9.161	9.158	9.052 - 9.552	9.231
R-PSDCA	9.644	9.645	9.616	9.617	9.616	9.618	9.557	9.567	9.526	9.522	9.394 - 9.894	9.593
Hydro-EVE Acid	9.701	9.673	9.645	9.645	9.645	9.647	9.618	9.595	9.587	9.555	9.451 - 9.951	9.631
Perfluoroheptanoic acid	9.701	9.702	9.673	9.674	9.673	9.676	9.618	9.595	9.587	9.587	9.451 - 9.951	9.649
Hydro-PS Acid	9.730	9.702	9.673	9.674	9.673	9.676	9.647	9.624	9.587	9.587	9.480 - 9.980	9.657
PFECA G	9.816	9.817	9.788	9.789	9.788	9.790	9.733	9.739	9.702	9.702	9.566 - 10.066	9.766
PFO4DA	9.988	9.960	9.932	9.932	9.932	9.934	9.905	9.882	9.845	9.845	9.738 - 10.238	9.916
PS Acid	10.046	10.046	9.989	10.018	10.018	10.020	9.962	9.940	9.931	9.903	9.796 - 10.296	9.987
EVE Acid	10.046	10.046	10.018	10.018	10.018	10.020	9.991	9.968	9.931	9.931	9.796 - 10.296	9.999
PFO5DA	10.565	10.566	10.519	10.543	10.519	10.545	10.497	10.479	10.447	10.448	10.315 - 10.815	10.513
13C3 HFPO-DA	9.274	9.271	9.243	9.243	9.243	9.245	9.217	9.170	9.161	9.158	9.174 - 9.374	9.223
13C4 PFHpA	9.701	9.702	9.645	9.674	9.673	9.676	9.618	9.595	9.587	+++++	9.601 - 9.801	9.652

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-468521/2	2021.03.08_A12_TB3_ICAL_003.d
Level 2	IC 320-468521/3	2021.03.08_A12_TB3_ICAL_004.d
Level 3	IC 320-468521/4	2021.03.08_A12_TB3_ICAL_005.d
Level 4	IC 320-468521/5	2021.03.08_A12_TB3_ICAL_006.d
Level 5	IC 320-468521/6	2021.03.08_A12_TB3_ICAL_007.d
Level 6	IC 320-468521/8	2021.03.08_A12_TB3_ICAL_009.d
Level 7	IC 320-468521/10	2021.03.08_A12_TB3_ICAL_011.d
Level 8	IC 320-468521/12	2021.03.08_A12_TB3_ICAL_013.d
Level 9	IC 320-468521/14	2021.03.08_A12_TB3_ICAL_015.d
Level 10	IC 320-468521/15	2021.03.08_A12_TB3_ICAL_016.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	10977000 11388040 11882752	11051600 10542660 11624085	11232400 10898690	11069800 11593656	Ave		11226068. 3			3.6			50.0			
R-EVE	5648000 6139280 6207032	5406400 5705680 6171861	5870400 6034680	6164100 5796600	Ave		5914403.3 0			4.6			50.0			
R-PSDA	2852000 2780640 ++++	2651200 2472040 ++++	2557600 2777430	2670400 2677812	Ave		2679890.2 5			4.6			50.0			
Hydrolyzed PSDA	9895000 10548120 10645598	8912400 9621300 10409341	10160600 10197580	10480500 10113540	Ave		10098397. 9			5.1			50.0			
PMPA	++++ 17340680 16990664	++++ 15851500 16784939	18858000 16149670	18879900 16755584	Ave		17201367. 1			6.6			50.0			
NVHOS	4514000 5519000 5844064	4672000 5026800 5786419	5251200 5290750	5528600 5561852	Ave		5299468.5 0			8.4			50.0			
PFO2HxA	12773000 12765280 12954844	12322400 11906420 12432784	12782400 12236470	12924200 12777088	Ave		12587488. 6			2.7			50.0			
PEPA	4872000 5184320 5138034	5000800 5204880 5002510	5219800 5187480	5484200 5193400	Ave		5148742.4 0			3.2			50.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.



FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4		B	M1	M2								
	LVL 5 LVL 9	LVL 6 LVL 10	LVL 7	LVL 8												
PES	17446000 17738120 19725350	18060800 16173180 19262846	17827800 16285770	16958700 18058812	Ave		17753737. 8			6.4		50.0				
PFECA B	7866000 8820080 8940190	8207600 8140760 8168324	9348600 8501920	8910500 9091172	Ave		8599514.6 0			5.7		50.0				
PFO3OA	3726000 3623960 3354952	2890400 3190180 3163918	3397800 3558670	3629500 3377928	Ave		3391330.8 0			7.6		50.0				
R-PSDCA	50115000 55600280 47163262	53543600 47924600 38566604	56673800 48528810	56490900 51390708	Ave		50599756. 4			10.9		50.0				
Hydro-EVE Acid	61494000 70125240 65524696	63030400 62477060 57587964	69525200 63831810	69928600 68663084	Ave		65218805. 4			6.5		50.0				
Hydro-PS Acid	25655000 24362200 23806506	22026000 21865180 22874579	23773400 22679390	24420100 24396092	Ave		23585844. 7			5.1		50.0				
PFECA G	4934000 4869080 4341460	4831600 4051820 3634590	4580600 4408130	4862000 4658772	Ave		4517205.2 0			9.3		50.0				
PFO4DA	4614000 5905960 5262186	5202000 4994160 4348756	5740600 5027110	5691100 5159744	Ave		5194561.6 0			9.5		50.0				
PS Acid	9476000 11108120 10772376	10023200 9859820 9666123	10860600 10391410	10980200 10712232	Ave		10385008. 1			5.7		50.0				
EVE Acid	36320000 40992000 37046162	37495600 37824480 31234468	39932400 39826920	42553900 41087204	Ave		38431313. 4			8.4		50.0				
PFO5DA	4324000 4656840 4288722	4621600 4092460 4073951	4155800 4361270	4825200 4446472	Ave		4384631.5 0			5.8		50.0				
13C3 HFPO-DA	6510424 6475376 5856296	6315340 6802420 5880048	6568976 6088812	6635564 6114528	Ave		6324778.4 0			5.2		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
13C4 PFHpA	28726200 28336652 21718104	28656100 25923104 +++++	29298696 26616572	29084552 25818096	Ave		27130897. 3			9.0		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
HFPO-DA	1.0711 0.9120	1.0449 1.0591	0.9531 1.0748	1.0556 1.0769	1.0050 1.0543	AveI D	1.030 7				5.5		35.0				
Perfluoroheptanoic acid	1.4176 0.9723	1.1759 0.9763	1.0487 1.0668	1.0363 1.1254	1.0491	AveI D	1.098 3				11.7		35.0				

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-468521/2	2021.03.08_A12_TB3_ICAL_003.d
Level 2	IC 320-468521/3	2021.03.08_A12_TB3_ICAL_004.d
Level 3	IC 320-468521/4	2021.03.08_A12_TB3_ICAL_005.d
Level 4	IC 320-468521/5	2021.03.08_A12_TB3_ICAL_006.d
Level 5	IC 320-468521/6	2021.03.08_A12_TB3_ICAL_007.d
Level 6	IC 320-468521/8	2021.03.08_A12_TB3_ICAL_009.d
Level 7	IC 320-468521/10	2021.03.08_A12_TB3_ICAL_011.d
Level 8	IC 320-468521/12	2021.03.08_A12_TB3_ICAL_013.d
Level 9	IC 320-468521/14	2021.03.08_A12_TB3_ICAL_015.d
Level 10	IC 320-468521/15	2021.03.08_A12_TB3_ICAL_016.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
		LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
PFMOAA	Ave	10977	27629	56162	110698	284701	0.00100	0.00250	0.00500	0.0100	0.0250
		527133	1089869	2898414	5941376	11624085	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	5648	13516	29352	61641	153482	0.00100	0.00250	0.00500	0.0100	0.0250
		285284	603468	1449150	3103516	6171861	0.0500	0.100	0.250	0.500	1.00
R-PSDA	Ave	2852	6628	12788	26704	69516	0.00100	0.00250	0.00500	0.0100	0.0250
		123602	277743	669453	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
Hydrolyzed PSDA	Ave	9895	22281	50803	104805	263703	0.00100	0.00250	0.00500	0.0100	0.0250
		481065	1019758	2528385	5322799	10409341	0.0500	0.100	0.250	0.500	1.00
PMPA	Ave	+++++	+++++	94290	188799	433517	+++++	+++++	0.00500	0.0100	0.0250
		792575	1614967	4188896	8495332	16784939	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	4514	11680	26256	55286	137975	0.00100	0.00250	0.00500	0.0100	0.0250
		251340	529075	1390463	2922032	5786419	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	12773	30806	63912	129242	319132	0.00100	0.00250	0.00500	0.0100	0.0250
		595321	1223647	3194272	6477422	12432784	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	4872	12502	26099	54842	129608	0.00100	0.00250	0.00500	0.0100	0.0250
		260244	518748	1298350	2569017	5002510	0.0500	0.100	0.250	0.500	1.00
PES	Ave	17446	45152	89139	169587	443453	0.00100	0.00250	0.00500	0.0100	0.0250
		808659	1628577	4514703	9862675	19262846	0.0500	0.100	0.250	0.500	1.00
PFECA B	Ave	7866	20519	46743	89105	220502	0.00100	0.00250	0.00500	0.0100	0.0250
		407038	850192	2272793	4470095	8168324	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	3726	7226	16989	36295	90599	0.00100	0.00250	0.00500	0.0100	0.0250
		159509	355867	844482	1677476	3163918	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	50115	133859	283369	564909	1390007	0.00100	0.00250	0.00500	0.0100	0.0250
		2396230	4852881	12847677	23581631	38566604	0.0500	0.100	0.250	0.500	1.00

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Hydro-EVE Acid	Ave	61494	157576	347626	699286	1753131	0.00100	0.00250	0.00500	0.0100	0.0250
		3123853	6383181	17165771	32762348	57587964	0.0500	0.100	0.250	0.500	1.00
Hydro-PS Acid	Ave	25655	55065	118867	244201	609055	0.00100	0.00250	0.00500	0.0100	0.0250
		1093259	2267939	6099023	11903253	22874579	0.0500	0.100	0.250	0.500	1.00
PFECA G	Ave	4934	12079	22903	48620	121727	0.00100	0.00250	0.00500	0.0100	0.0250
		202591	440813	1164693	2170730	3634590	0.0500	0.100	0.250	0.500	1.00
PFO4DA	Ave	4614	13005	28703	56911	147649	0.00100	0.00250	0.00500	0.0100	0.0250
		249708	502711	1289936	2631093	4348756	0.0500	0.100	0.250	0.500	1.00
PS Acid	Ave	9476	25058	54303	109802	277703	0.00100	0.00250	0.00500	0.0100	0.0250
		492991	1039141	2678058	5386188	9666123	0.0500	0.100	0.250	0.500	1.00
EVE Acid	Ave	36320	93739	199662	425539	1024800	0.00100	0.00250	0.00500	0.0100	0.0250
		1891224	3982692	10271801	18523081	31234468	0.0500	0.100	0.250	0.500	1.00
PFO5DA	Ave	4324	11554	20779	48252	116421	0.00100	0.00250	0.00500	0.0100	0.0250
		204623	436127	1111618	2144361	4073951	0.0500	0.100	0.250	0.500	1.00
13C3 HFPO-DA	Ave	1627606	1578835	1642244	1658891	1618844	0.250	0.250	0.250	0.250	0.250
		1700605	1522203	1528632	1464074	1470012	0.250	0.250	0.250	0.250	0.250
13C4 PFHpA	Ave	7181550	7164025	7324674	7271138	7084163	0.250	0.250	0.250	0.250	0.250
		6480776	6654143	6454524	5429526	+++++	0.250	0.250	0.250	0.250	+++++

Curve Type Legend

Ave = Average

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 468521

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/08/2021 14:45 Calibration End Date: 03/08/2021 18:35 Calibration ID: 54490

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-468521/2	2021.03.08_A12_TB3_ICAL_003.d
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Level 4	IC 320-468521/5	2021.03.08_A12_TB3_ICAL_006.d
Level 5	IC 320-468521/6	2021.03.08_A12_TB3_ICAL_007.d
Level 6	IC 320-468521/8	2021.03.08_A12_TB3_ICAL_009.d
Level 7	IC 320-468521/10	2021.03.08_A12_TB3_ICAL_011.d
Level 8	IC 320-468521/12	2021.03.08_A12_TB3_ICAL_013.d
Level 9	IC 320-468521/14	2021.03.08_A12_TB3_ICAL_015.d
Level 10	IC 320-468521/15	2021.03.08_A12_TB3_ICAL_016.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
HFPO-DA		AveI D	6973	16497	31304	70048	162686	0.00100	0.00250	0.00500	0.0100	0.0250
			310204	644858	1642908	3153200	6199253	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		AveI D	40722	84245	153628	301416	743214	0.00100	0.00250	0.00500	0.0100	0.0250
			1260231	2598671	6885904	12220864	19409091	0.0500	0.100	0.250	0.500	1.00

Curve Type Legend

AveID = Average isotope dilution

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_003.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 08-Mar-2021 14:45:57 ALS Bottle#: 3 Worklist Smp#: 2  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (60)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:10 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:50:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.337	4.337	0.0		10977	0.000978		97.8	1.7	M
2 R-EVE										
405.00 > 217.00	6.591	6.591	0.0		5648	0.000955		95.5	77.8	
3 R-PSDA										M
440.90 > 241.00	6.639	6.639	0.0		2852	0.001064		106	40.4	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.710	6.710	0.0		9895	0.000980		98.0	157	
23 PMPA										M
229.00 > 185.00	6.876	6.876	0.0		33403	0.001942		194	16.6	M
5 NVHOS										M
297.00 > 135.00	7.260	7.260	0.0		4514	0.000852		85.2	69.3	M
6 PFO2HxA										
245.00 > 85.00	7.862	7.862	0.0		12773	0.001015		101	134	
22 PEPA										M
278.90 > 234.90	8.431	8.431	0.0		4872	0.000946		94.6	14.3	M
7 PES										
314.90 > 135.00	8.715	8.715	0.0		17446	0.000983		98.3	441	
8 PFECA B										
295.00 > 201.00	8.925	8.925	0.0		7866	0.000915		91.5	151	
9 PFO3OA										
310.90 > 85.00	9.190	9.190	0.0		3726	0.001099		110	77.3	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.274	9.274	0.0		1627606	0.2573		103	31588	
11 HPFO-DA										M
285.00 > 169.00	9.302	9.302	0.0	1.003	6973	0.001039		104	184	M

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.644	9.644	0.0		50115	0.000990		99.0	1363	
13 Hydro-EVE Acid										
427.00 > 282.90	9.701	9.701	0.0		61494	0.000943		94.3	401	
D 14 13C4 PFHpA										
367.00 > 322.00	9.701	9.701	0.0		7181550	0.2647		106	96782	
16 Perfluoroheptanoic acid										M
363.00 > 319.00	9.701	9.701	0.0	1.000	40722	0.001291	Target=0.00	129	237	
363.00 > 169.00	9.701	9.701	0.0	1.000	12018		3.39(0.00-0.00)	129	253	M
15 Hydro-PS Acid										
463.00 > 262.90	9.730	9.730	0.0		25655	0.001088		109	573	
17 PFECA G										
378.90 > 184.90	9.816	9.816	0.0		4934	0.001092		109	135	
18 PFO4DA										
376.90 > 85.00	9.988	9.988	0.0		4614	0.000888		88.8	124	
20 EVE Acid										
407.00 > 262.90	10.046	10.046	0.0		36320	0.000945		94.5	990	
19 PS Acid										
443.00 > 146.90	10.046	10.046	0.0		9476	0.000912		91.2	261	
21 TAF										
442.90 > 85.00	10.565	10.565	0.0		4324	0.000986		98.6	34.1	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

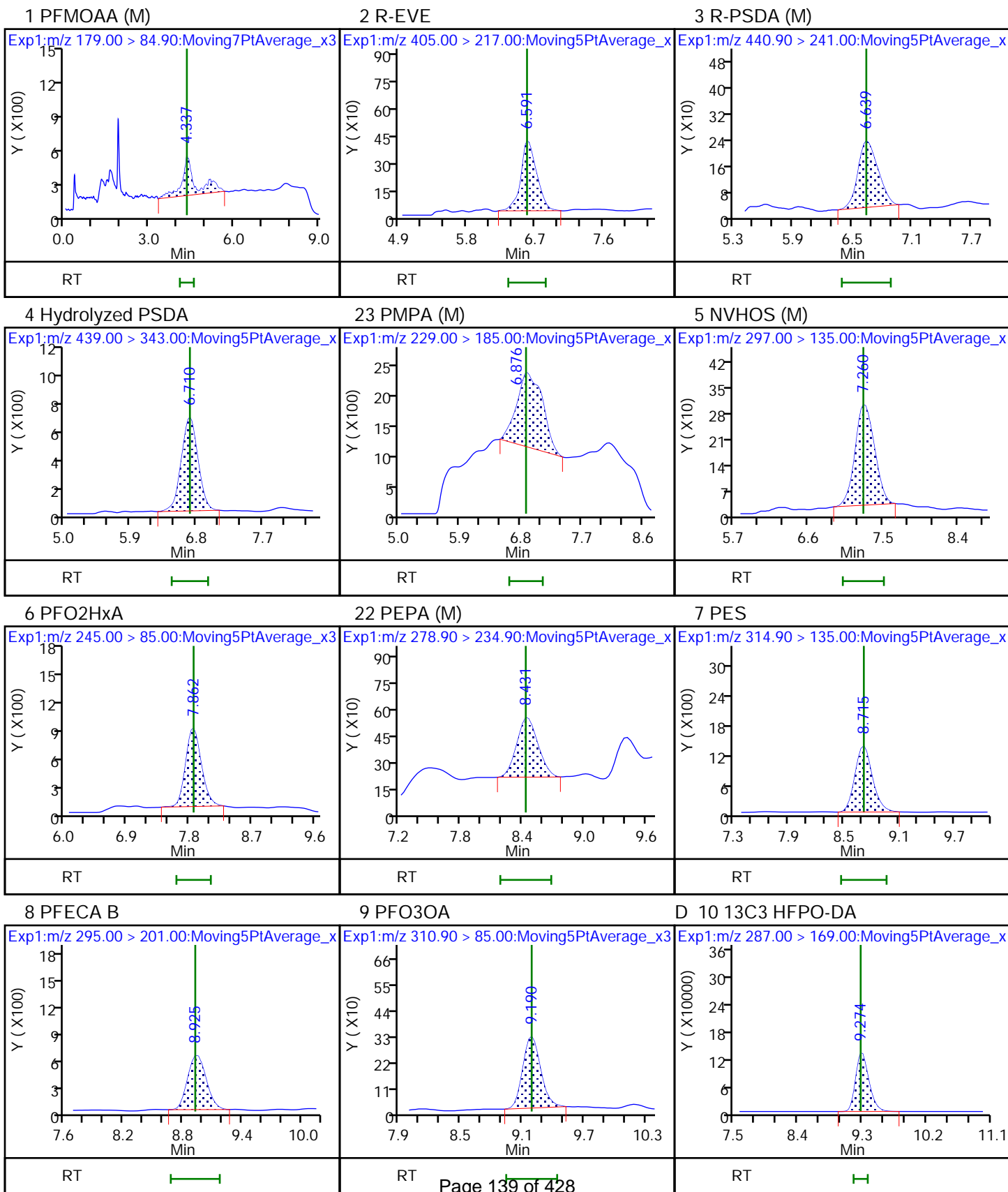
**Reagents:**

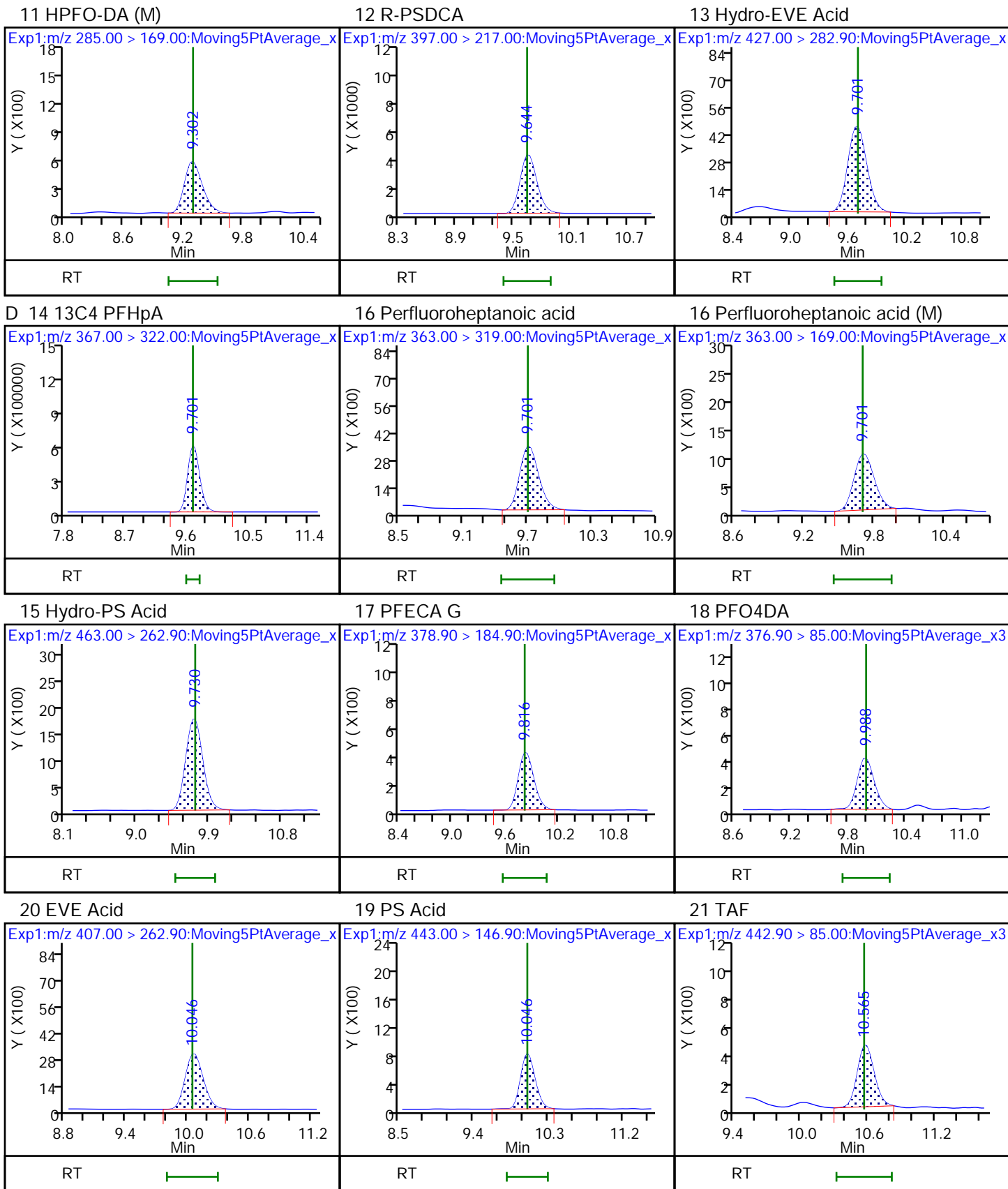
LCTB3\_LLSTD1\_00060

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

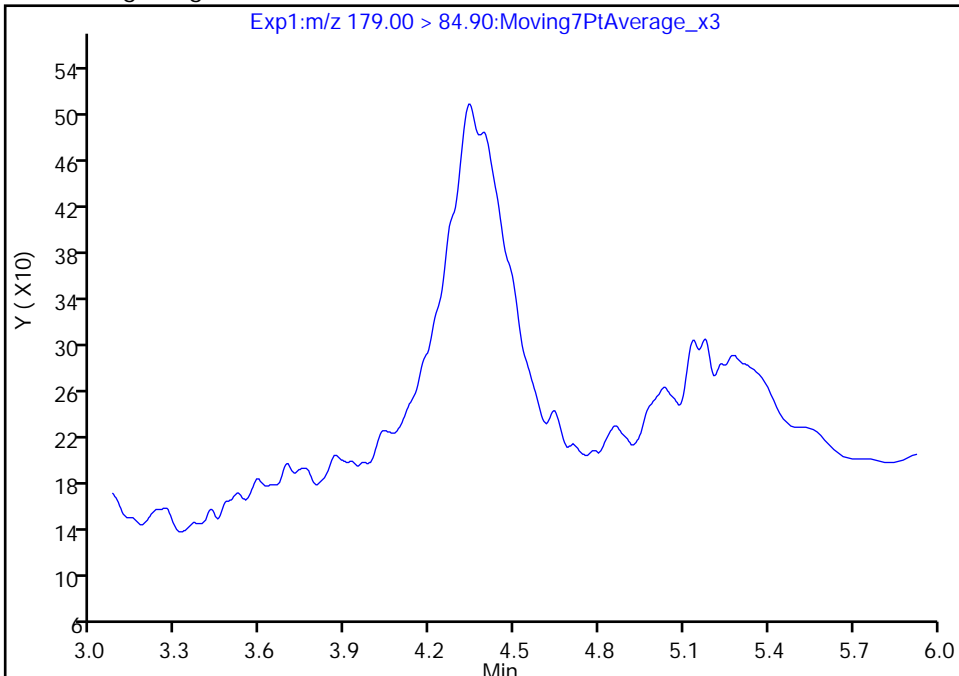
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

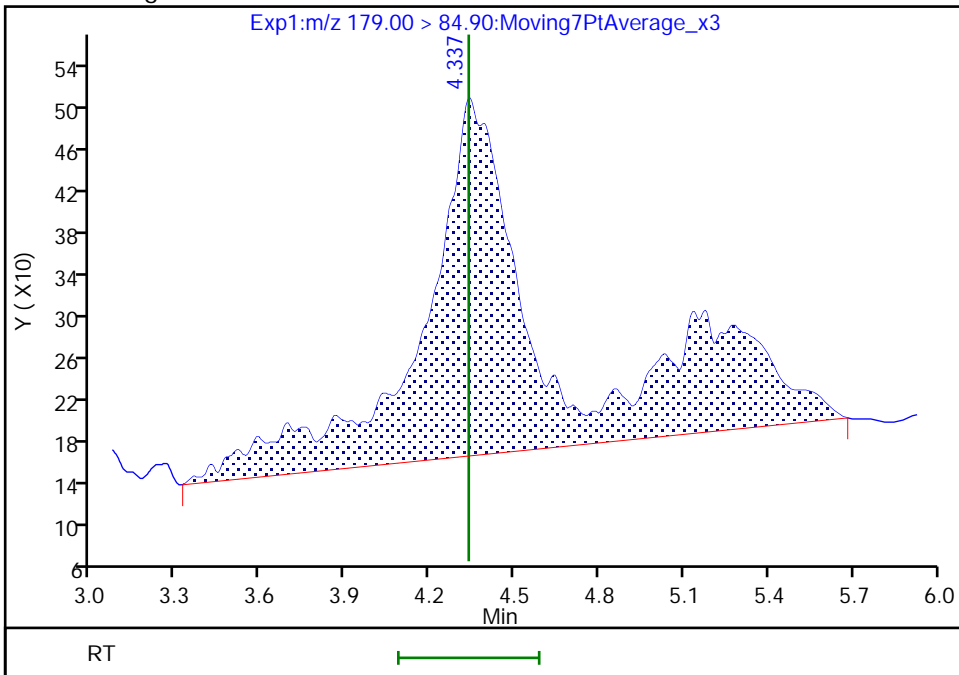
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 10977  
Amount: 0.000978  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:32:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

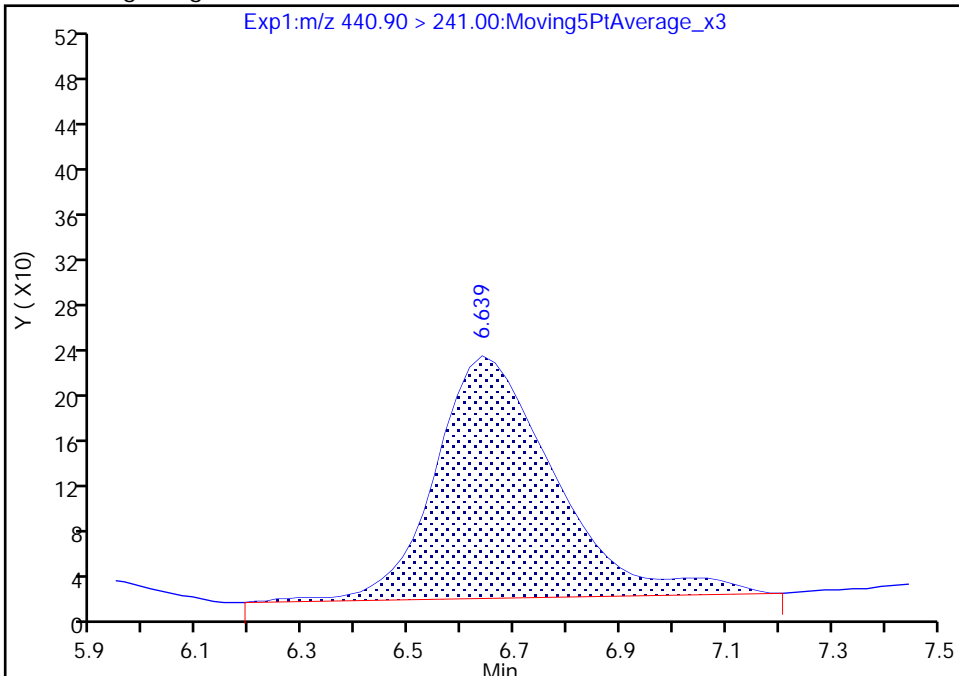
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

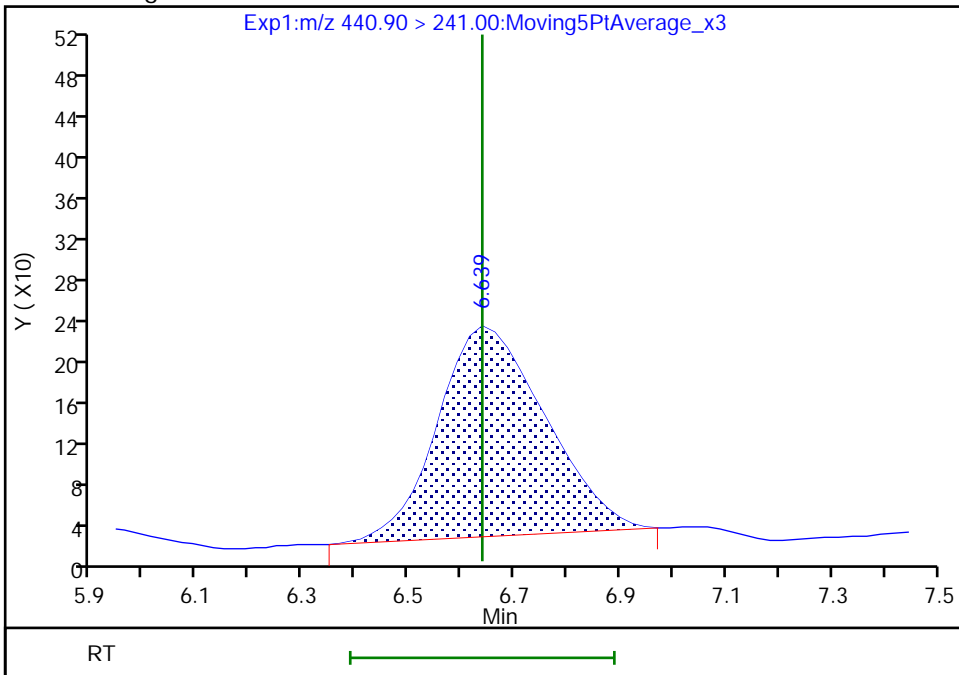
RT: 6.64  
Area: 3313  
Amount: 0.001174  
Amount Units: ng/ml

Processing Integration Results



RT: 6.64  
Area: 2852  
Amount: 0.001064  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:33:11  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

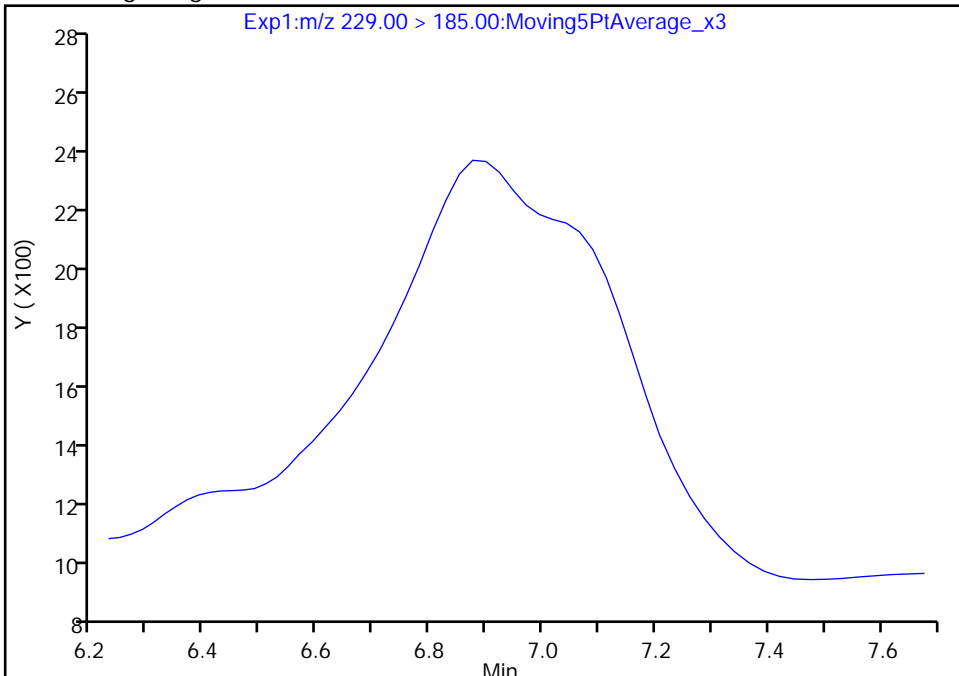
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

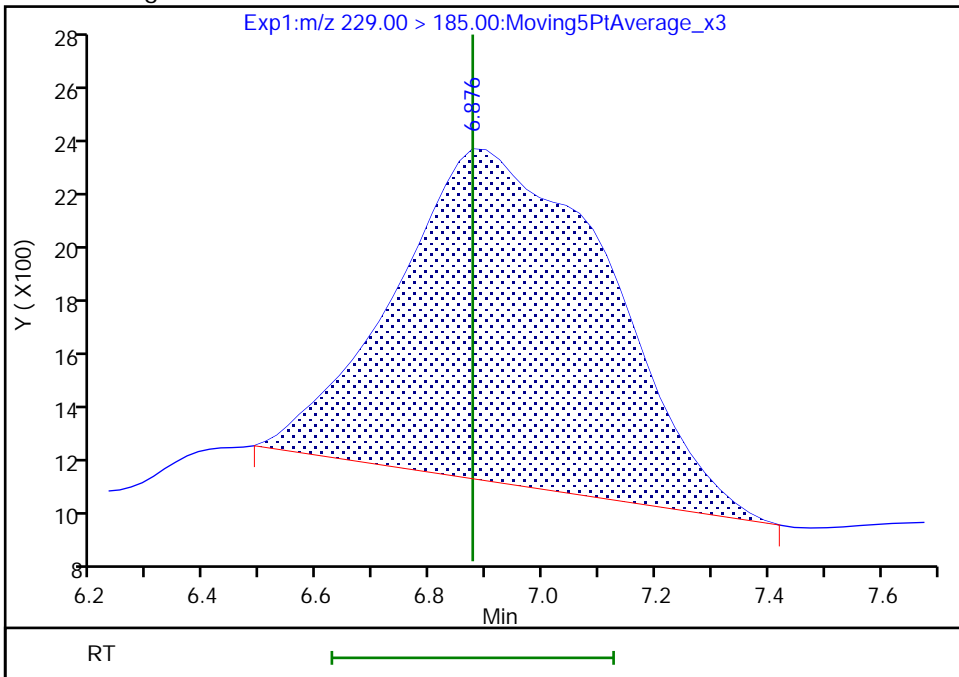
Not Detected  
Expected RT: 6.88

Processing Integration Results



Manual Integration Results

RT: 6.88  
Area: 33403  
Amount: 0.001942  
Amount Units: ng/ml



Eurofins TestAmerica, Sacramento

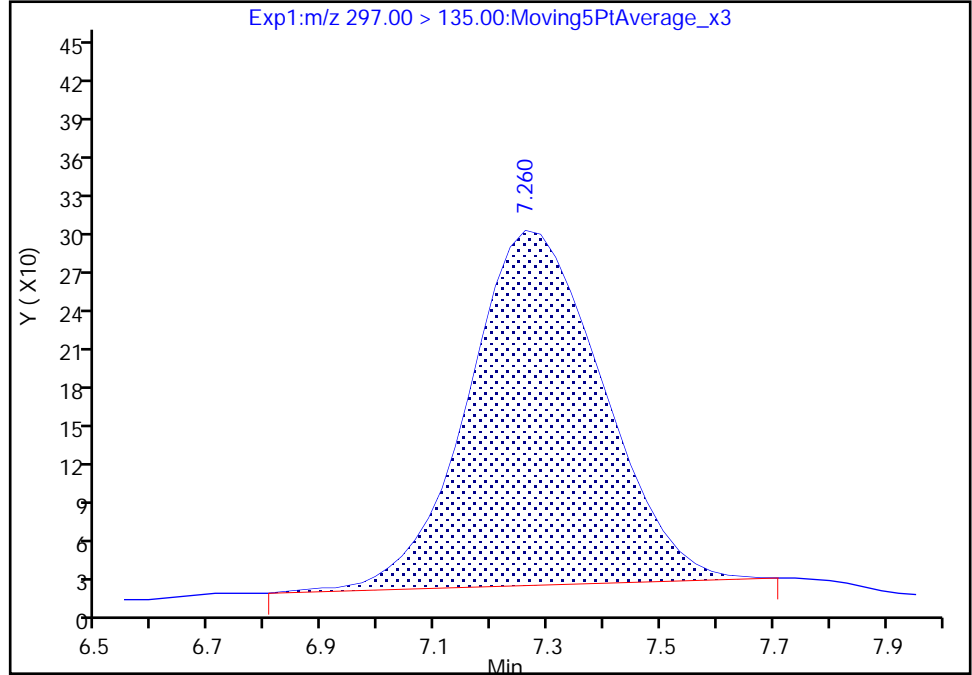
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

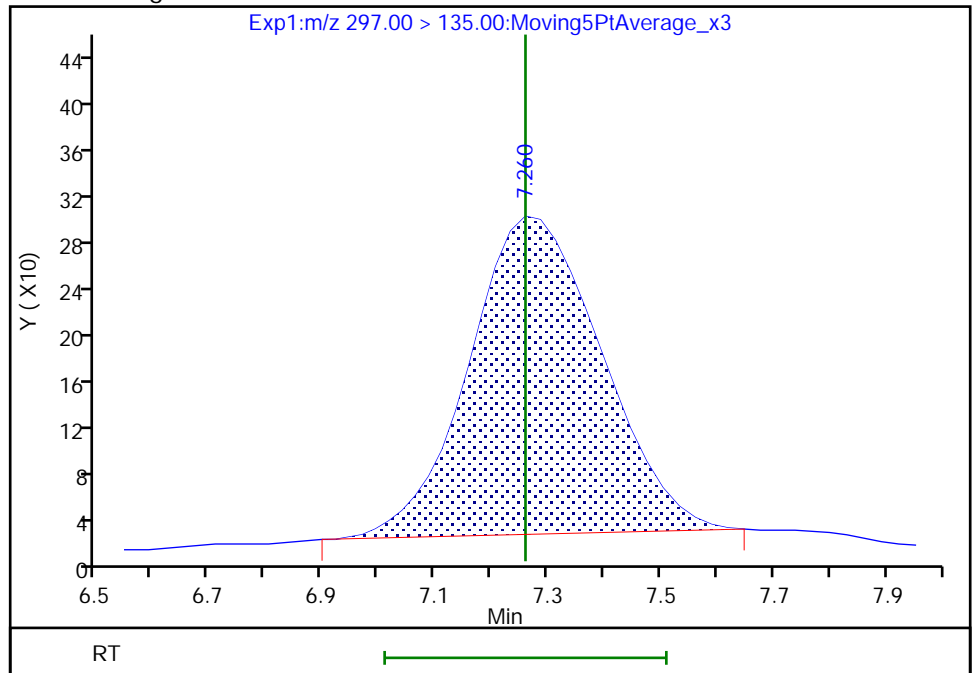
RT: 7.26  
Area: 4626  
Amount: 0.000869  
Amount Units: ng/ml

Processing Integration Results



RT: 7.26  
Area: 4514  
Amount: 0.000852  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:33:20  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

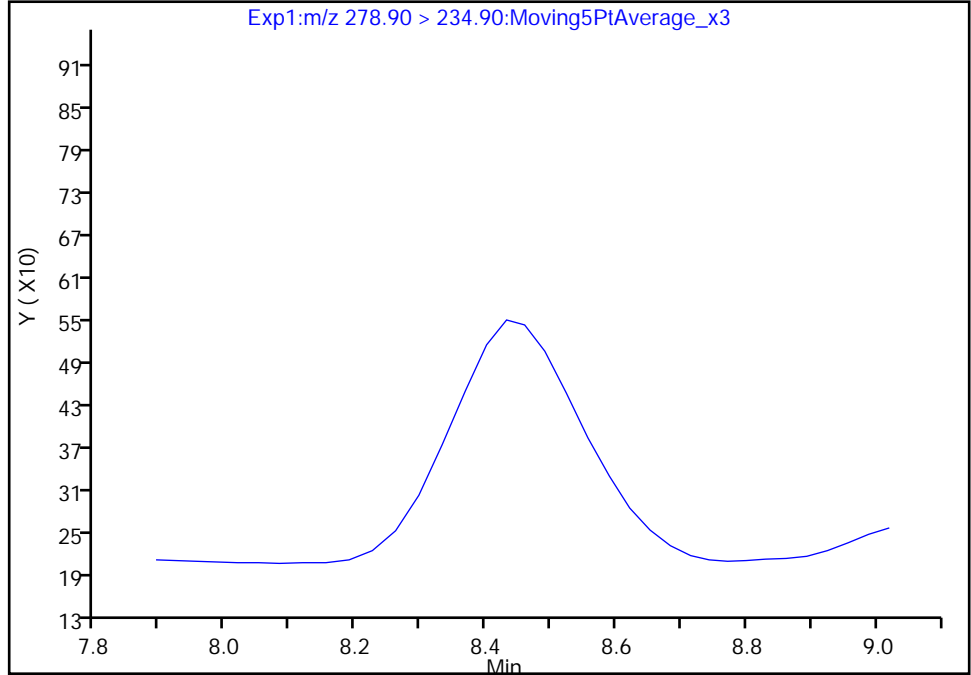
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

22 PEPA, CAS: 267239-61-2

Signal: 1

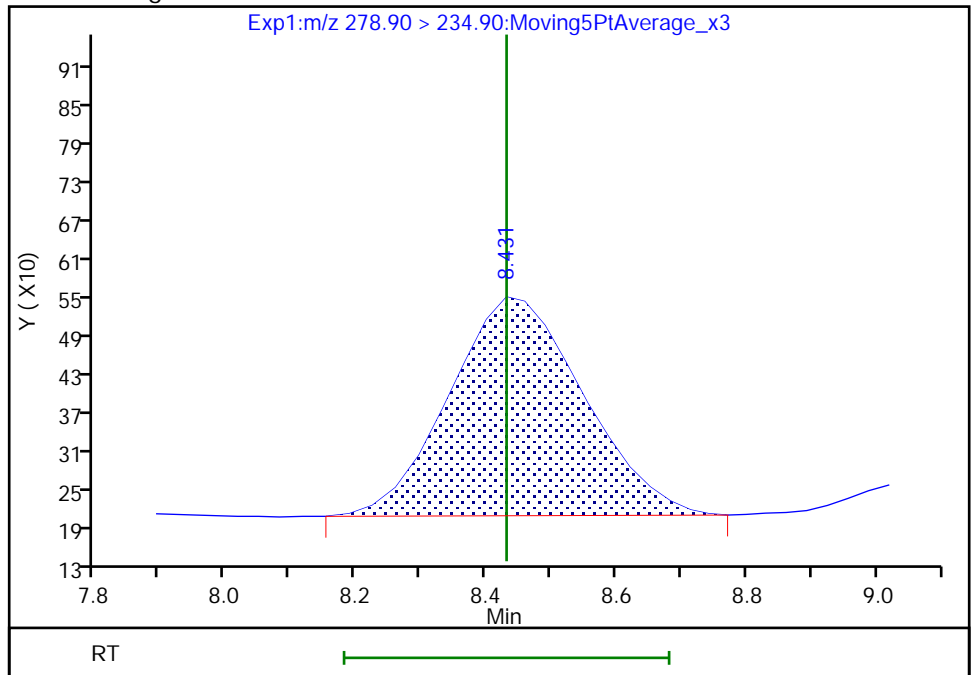
Not Detected  
Expected RT: 8.43

Processing Integration Results



Manual Integration Results

RT: 8.43  
Area: 4872  
Amount: 0.000946  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:33:02  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

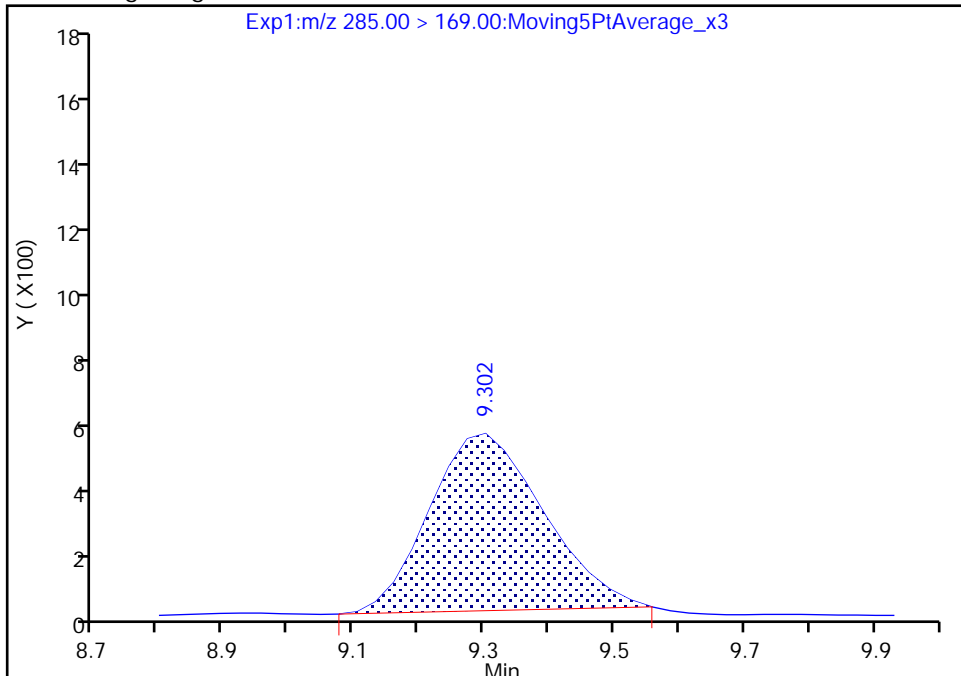
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

11 HPFO-DA, CAS: 13252-13-6

Signal: 1

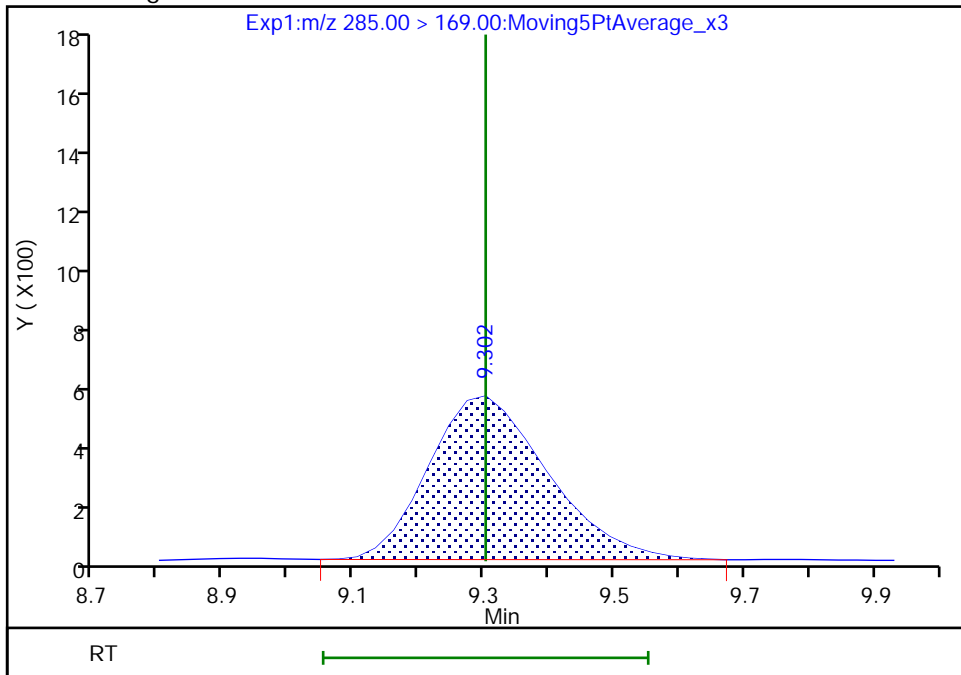
RT: 9.30  
Area: 6560  
Amount: 0.001002  
Amount Units: ng/ml

Processing Integration Results



RT: 9.30  
Area: 6973  
Amount: 0.001039  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:33:29  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

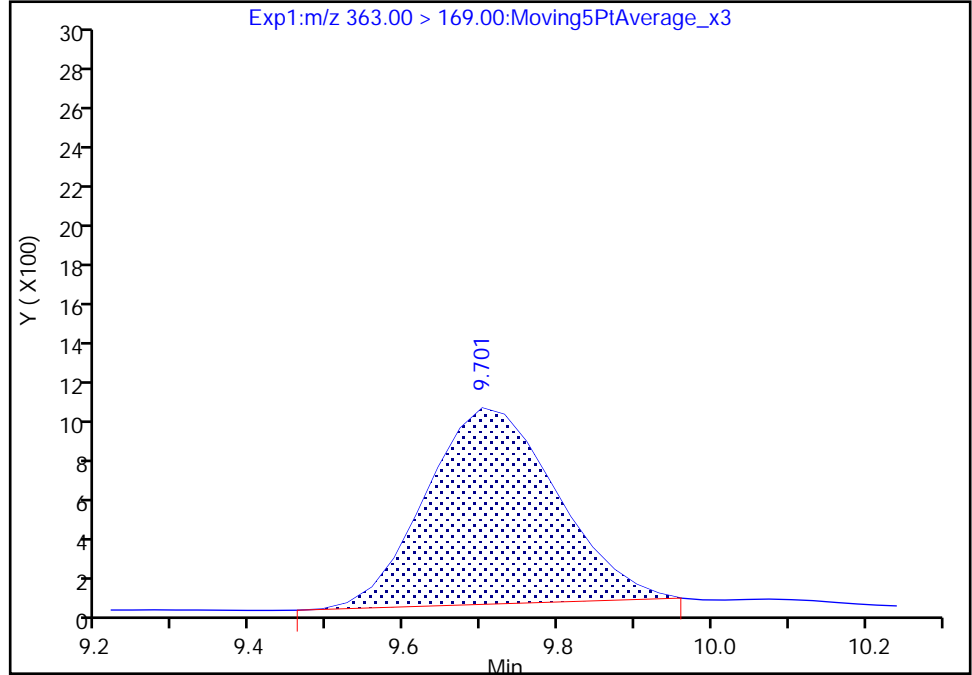
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Injection Date: 08-Mar-2021 14:45:57 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 3 Worklist Smp#: 2  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

16 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

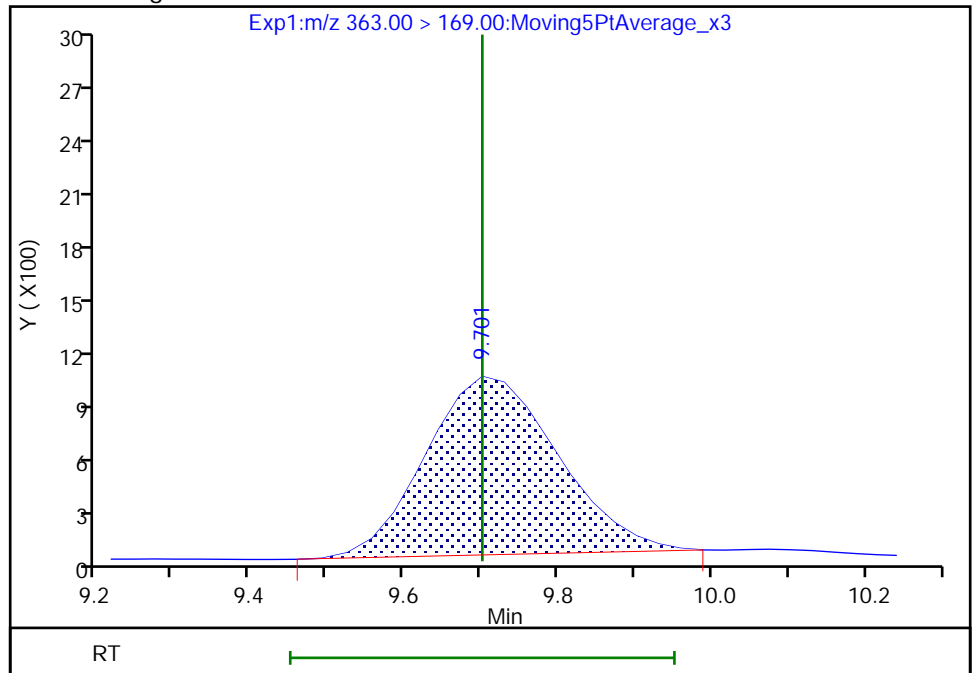
RT: 9.70  
Area: 11846  
Amount: 0.001293  
Amount Units: ng/ml

Processing Integration Results



RT: 9.70  
Area: 12018  
Amount: 0.001291  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:33:40  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 148 of 428

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_004.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 08-Mar-2021 15:03:32 ALS Bottle#: 4 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (48)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:11 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa

Date: 09-Mar-2021 06:34:46

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.352	4.337	0.015		27629	0.002461		98.4	3.4	M
2 R-EVE										
405.00 > 217.00	6.590	6.591	-0.001		13516	0.002285		91.4	182	
3 R-PSDA										M
440.90 > 241.00	6.637	6.639	-0.002		6628	0.002473		98.9	86.4	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.684	6.710	-0.026		22281	0.002206		88.3	354	
23 PMPA										M
229.00 > 185.00	6.897	6.876	0.021		58246	0.003386		135	37.1	M
5 NVHOS										M
297.00 > 135.00	7.258	7.260	-0.002		11680	0.002204		88.2	241	M
6 PFO2HxA										
245.00 > 85.00	7.860	7.862	-0.002		30806	0.002447		97.9	324	
22 PEPA										
278.90 > 234.90	8.430	8.431	-0.001		12502	0.002428		97.1	49.0	
7 PES										
314.90 > 135.00	8.685	8.715	-0.031		45152	0.002543		102	1124	
8 PFECA B										
295.00 > 201.00	8.922	8.925	-0.003		20519	0.002386		95.4	386	
9 PFO3OA										
310.90 > 85.00	9.158	9.190	-0.032		7226	0.002131		85.2	144	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.271	9.274	-0.003		1578835	0.2496		99.9	41105	
11 HPFO-DA										
285.00 > 169.00	9.271	9.302	-0.031	1.000	16497	0.002534		101	442	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.645	9.644	0.001		133859	0.002645		106	3554	
13 Hydro-EVE Acid										
427.00 > 282.90	9.673	9.701	-0.028		157576	0.002416		96.6	992	
D 14 13C4 PFHpA										
367.00 > 322.00	9.702	9.701	0.001		7164025	0.2641		106	94838	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.702	9.701	0.001	1.000	84245	0.002677	Target=0.00	107	564	
363.00 > 169.00	9.702	9.701	0.001	1.000	21889		3.85(0.00-0.00)	107	448	
15 Hydro-PS Acid										
463.00 > 262.90	9.702	9.730	-0.028		55065	0.002335		93.4	1227	
17 PFECA G										
378.90 > 184.90	9.817	9.816	0.001		12079	0.002674		107	330	
18 PFO4DA										
376.90 > 85.00	9.960	9.988	-0.028		13005	0.002504		100	350	
20 EVE Acid										
407.00 > 262.90	10.046	10.046	0.0		93739	0.002439		97.6	2543	
19 PS Acid										
443.00 > 146.90	10.046	10.046	0.0		25058	0.002413		96.5	682	
21 TAF										
442.90 > 85.00	10.566	10.565	0.001		11554	0.002635		105	91.5	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00048

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_004.d

Injection Date: 08-Mar-2021 15:03:32

Instrument ID: A12

Lims ID: IC STD 2

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 4

Worklist Smp#: 3

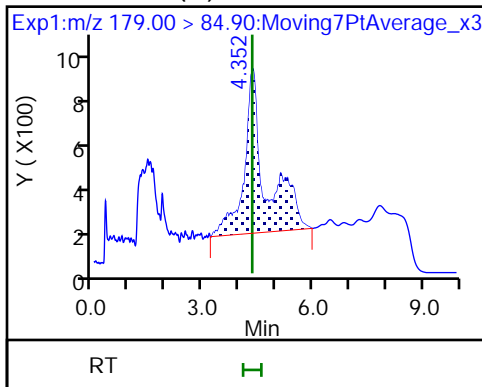
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

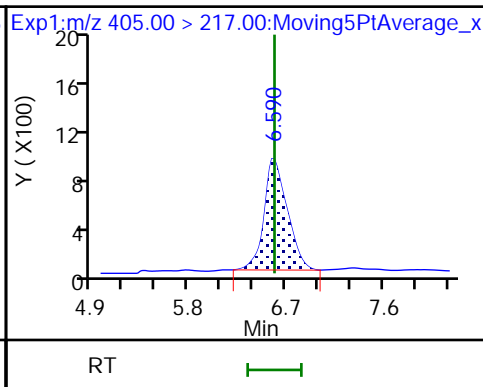
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

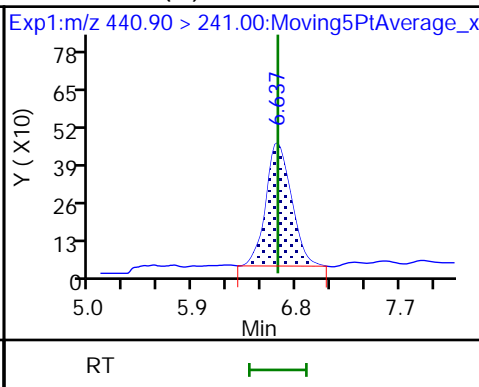
1 PFMOAA (M)



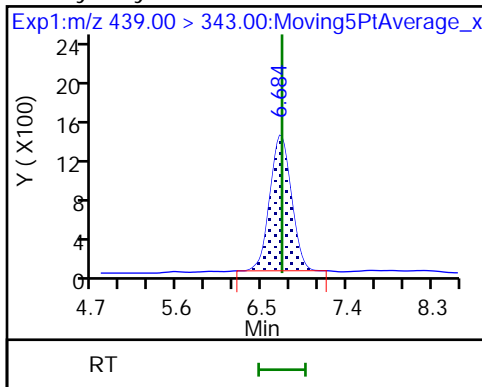
2 R-EVE



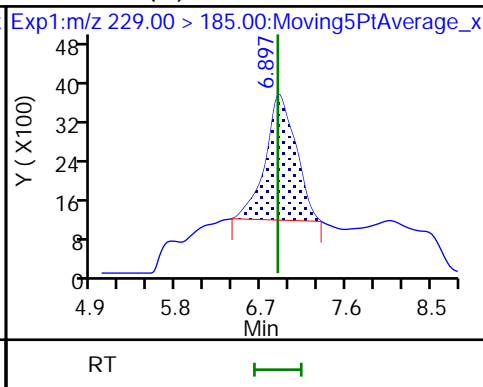
3 R-PSDA (M)



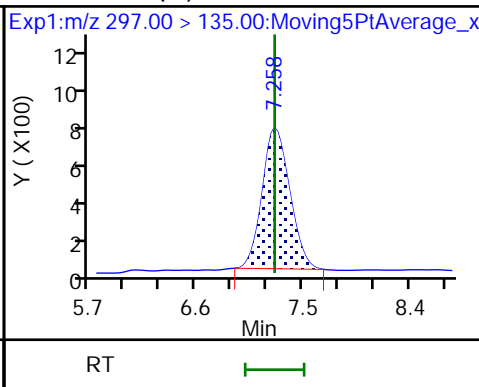
4 Hydrolyzed PSDA



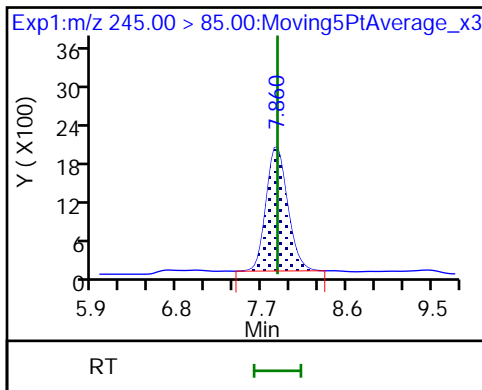
23 PMPA (M)



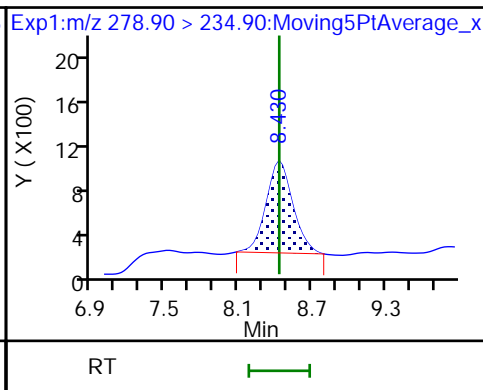
5 NVHOS (M)



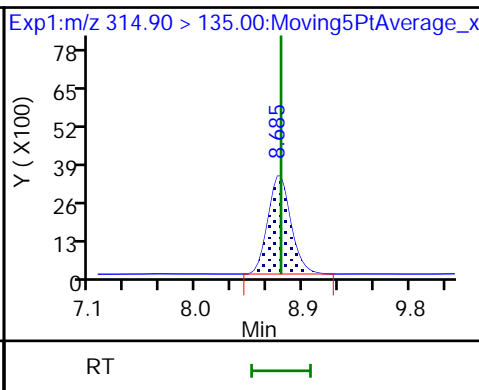
6 PFO2HxA



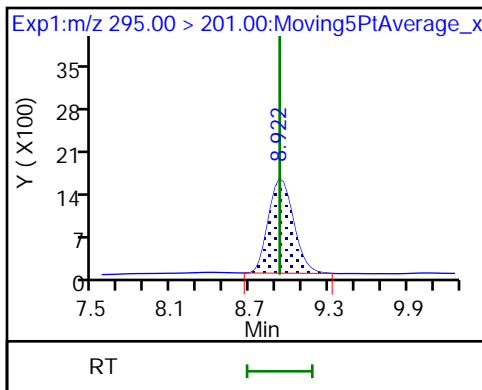
22 PEPA



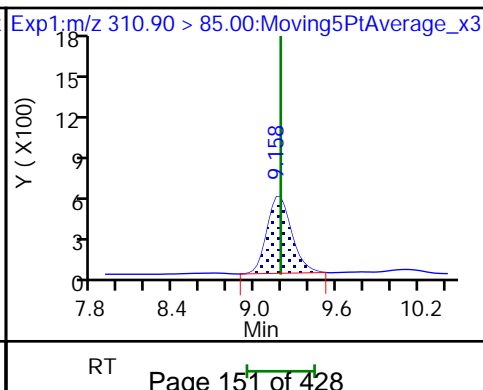
7 PES



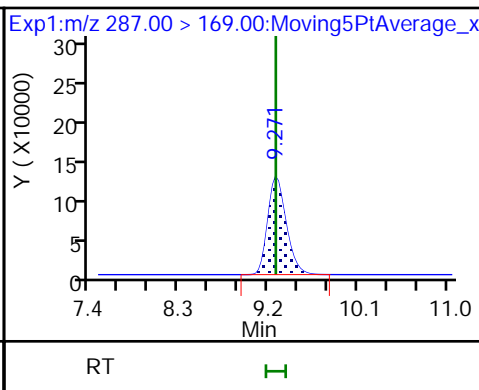
8 PFECA B

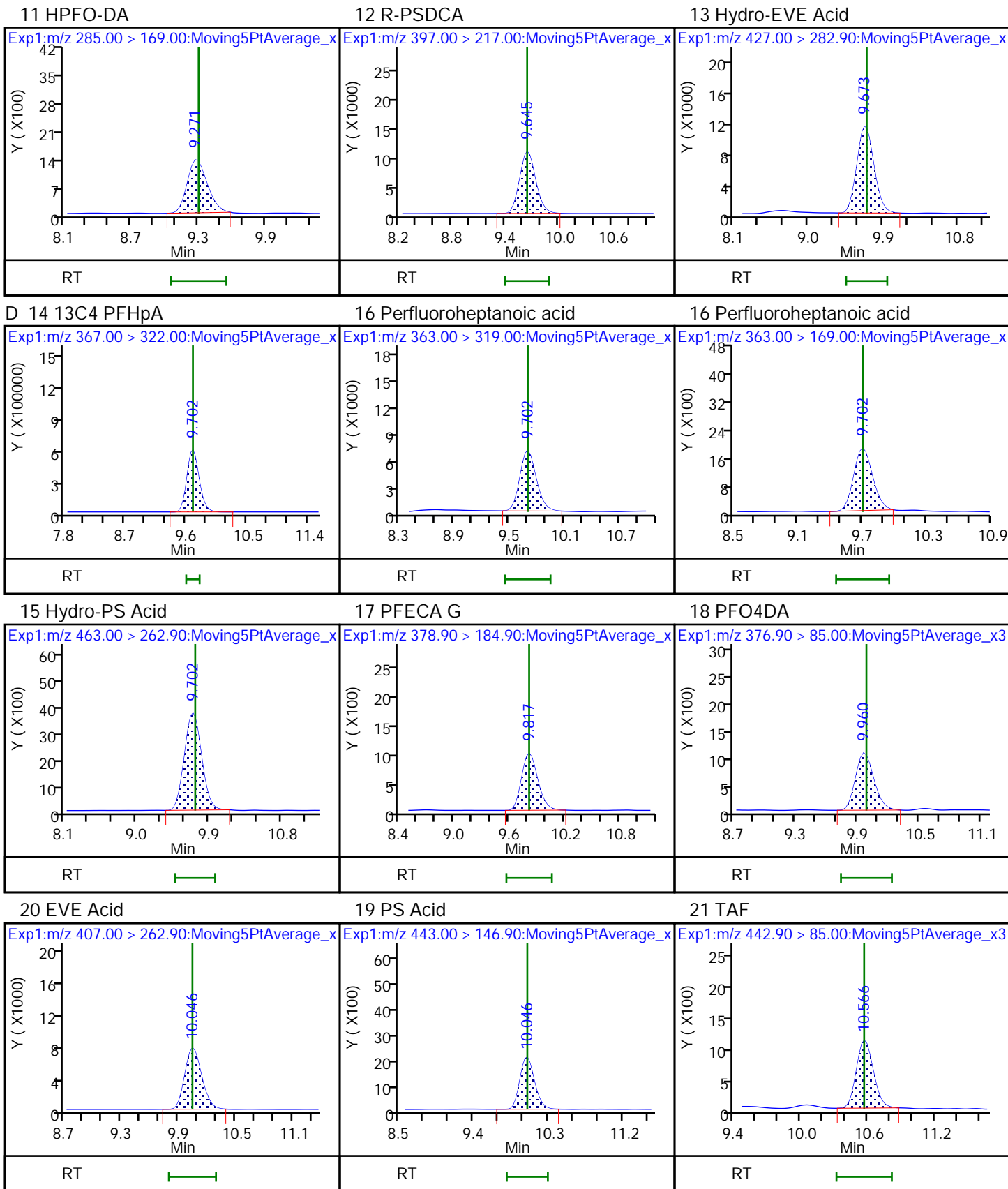


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

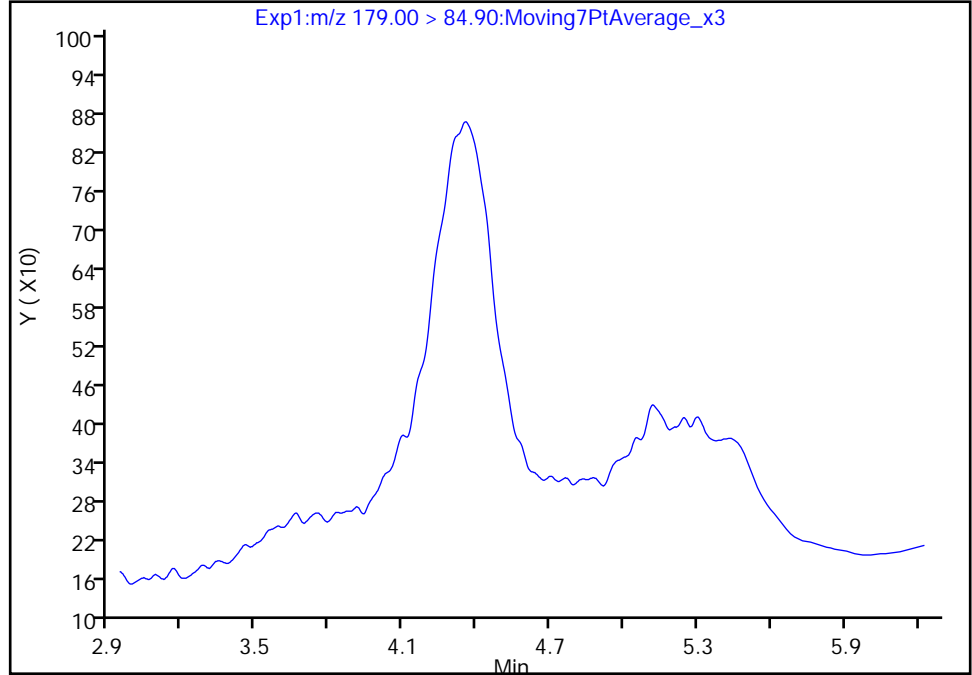
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Injection Date: 08-Mar-2021 15:03:32 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

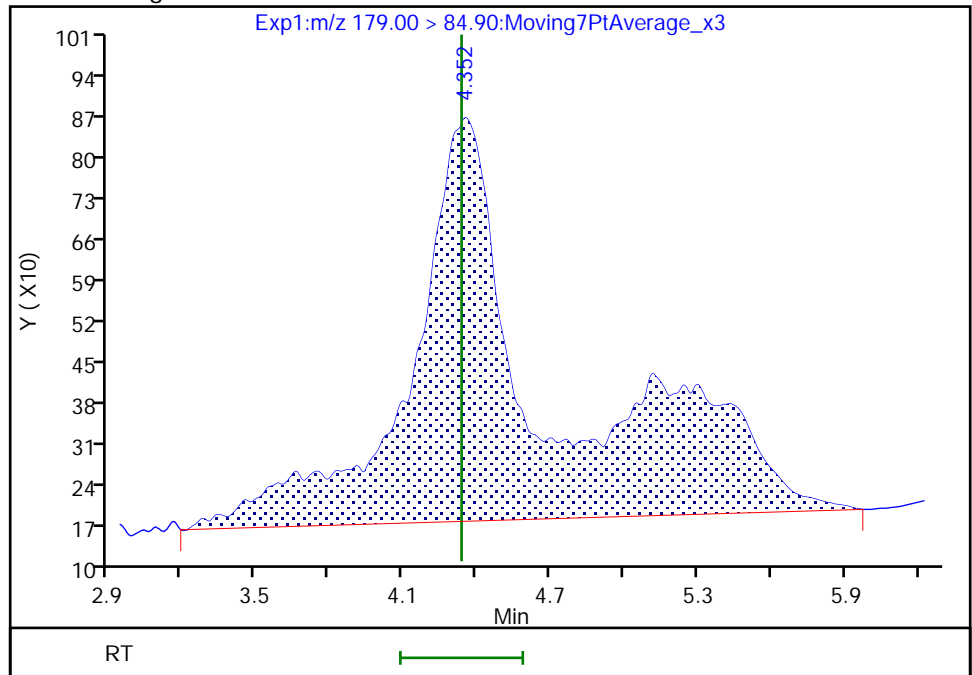
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.35  
Area: 27629  
Amount: 0.002461  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:34:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

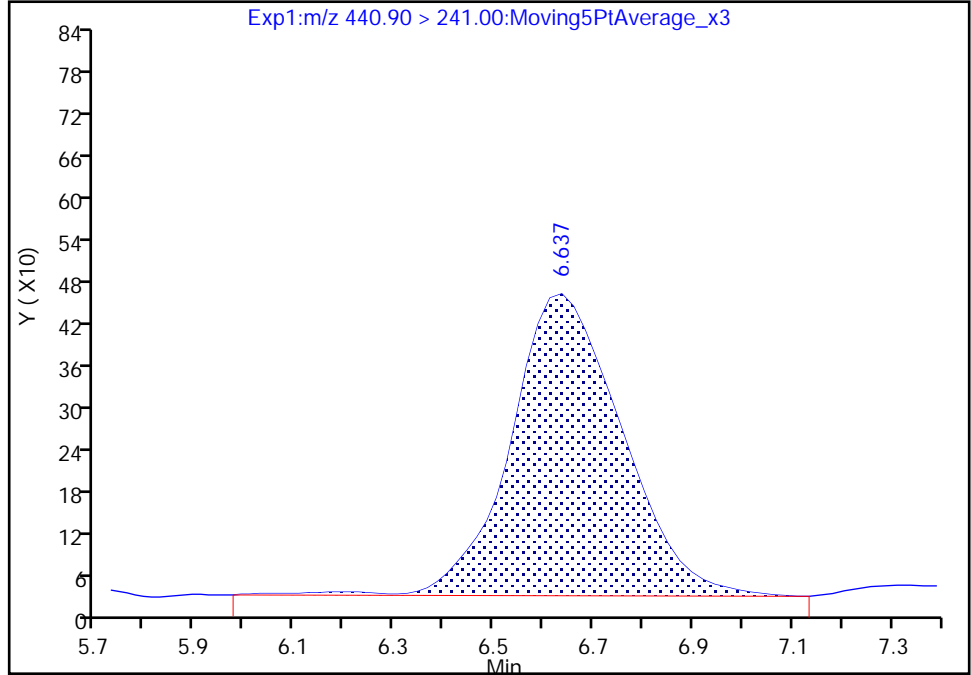
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_004.d  
Injection Date: 08-Mar-2021 15:03:32 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

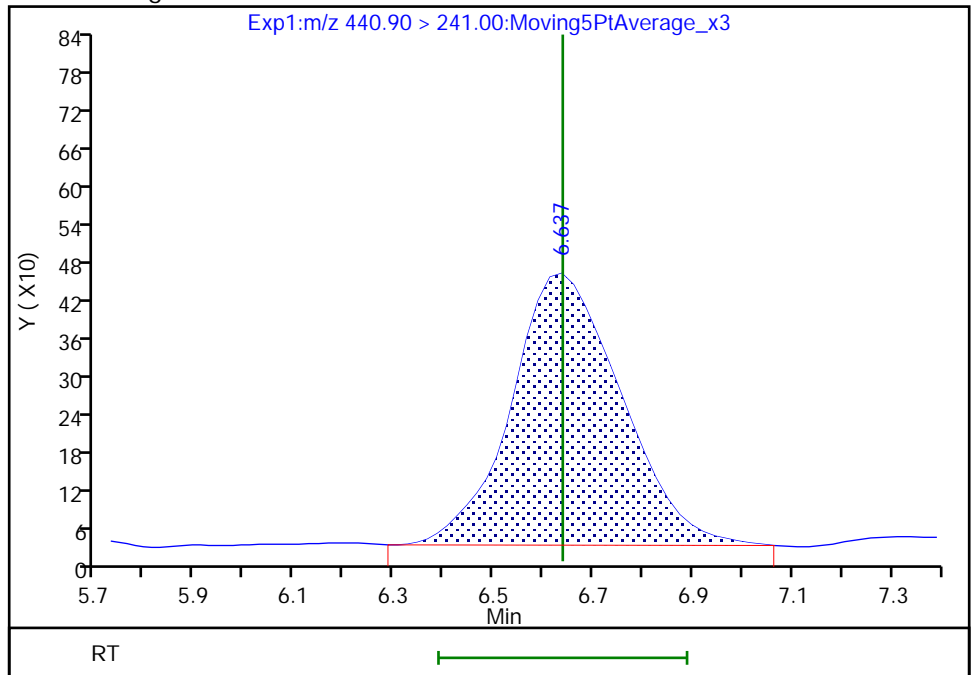
RT: 6.64  
Area: 6762  
Amount: 0.002435  
Amount Units: ng/ml

Processing Integration Results



RT: 6.64  
Area: 6628  
Amount: 0.002473  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:34:40  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

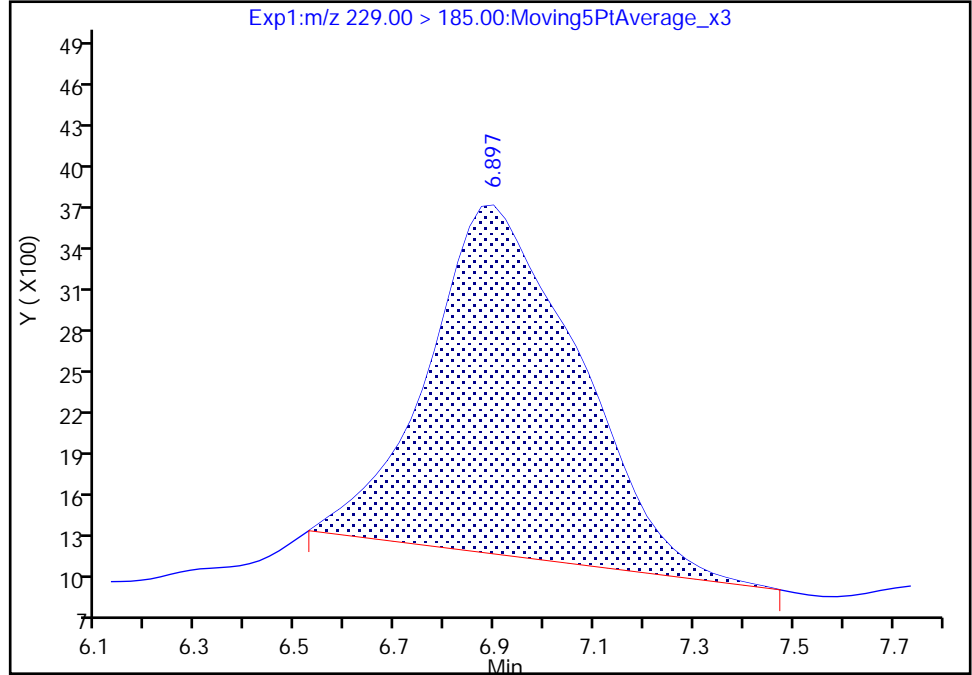
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_004.d  
Injection Date: 08-Mar-2021 15:03:32 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

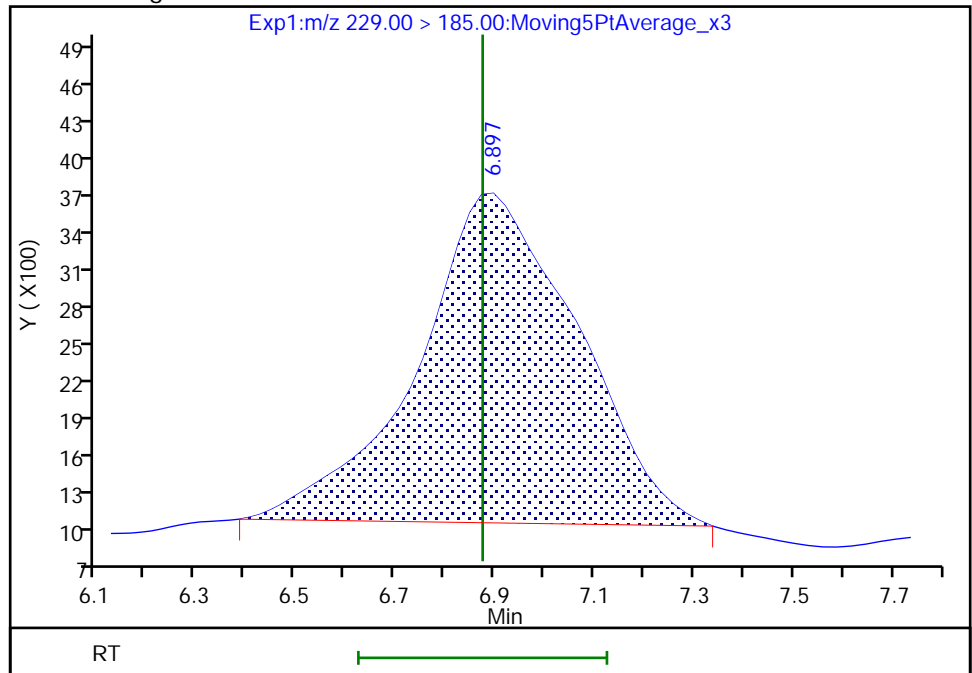
RT: 6.90  
Area: 52637  
Amount: 0.002741  
Amount Units: ng/ml

Processing Integration Results



RT: 6.90  
Area: 58246  
Amount: 0.003386  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:34:20  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

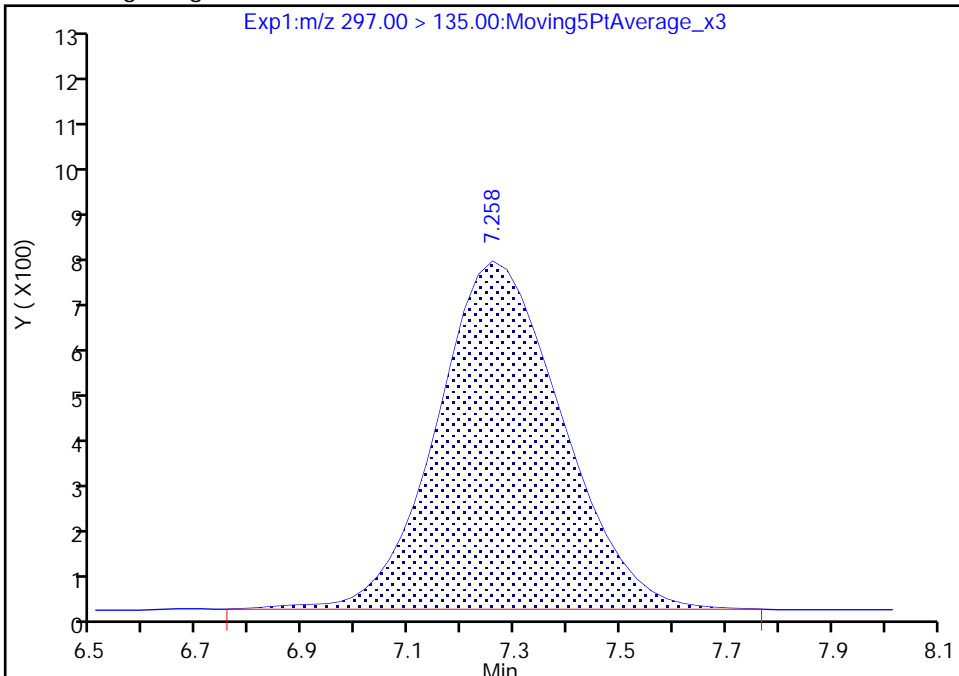
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_004.d  
 Injection Date: 08-Mar-2021 15:03:32 Instrument ID: A12  
 Lims ID: IC STD 2  
 Client ID:  
 Operator ID: Sac\_inst\_A12 ALS Bottle#: 4 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

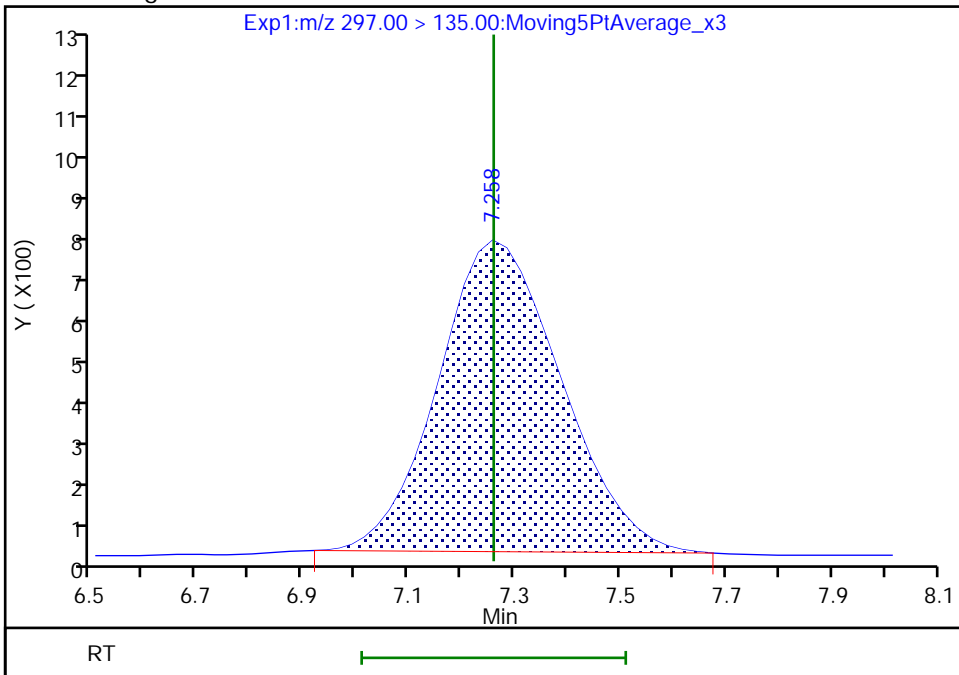
RT: 7.26  
 Area: 12055  
 Amount: 0.002268  
 Amount Units: ng/ml

Processing Integration Results



RT: 7.26  
 Area: 11680  
 Amount: 0.002204  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:34:27  
 Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_005.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 08-Mar-2021 15:21:14 ALS Bottle#: 5 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (48)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:12 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: kwongg Date: 08-Mar-2021 16:16:38

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.404	4.337	0.067		56162	0.005003		100	12.3	M
2 R-EVE										
405.00 > 217.00	6.566	6.591	-0.025		29352	0.004963		99.3	386	
3 R-PSDA										M
440.90 > 241.00	6.613	6.639	-0.026		12788	0.004772		95.4	176	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.684	6.710	-0.026		50803	0.005031		101	791	
23 PMPA										
229.00 > 185.00	6.874	6.876	-0.002		94290	0.005482		110	73.6	
5 NVHOS										
297.00 > 135.00	7.232	7.260	-0.028		26256	0.004954		99.1	564	
6 PFO2HxA										
245.00 > 85.00	7.798	7.862	-0.064		63912	0.005077		102	695	
22 PEPA										
278.90 > 234.90	8.399	8.431	-0.032		26099	0.005069		101	104	
7 PES										
314.90 > 135.00	8.653	8.715	-0.062		89139	0.005021		100	2212	
8 PFECA B										
295.00 > 201.00	8.890	8.925	-0.035		46743	0.005436		109	877	
9 PFO3OA										
310.90 > 85.00	9.130	9.190	-0.060		16989	0.005010		100	460	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.243	9.274	-0.031		1642244	0.2597		104	32811	
11 HPFO-DA										
285.00 > 169.00	9.243	9.302	-0.059	1.000	31304	0.004624		92.5	837	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.616	9.644	-0.028		283369	0.005600		112	7374	
13 Hydro-EVE Acid										
427.00 > 282.90	9.645	9.701	-0.056		347626	0.005330		107	2194	
D 14 13C4 PFHpA										
367.00 > 322.00	9.645	9.701	-0.056		7324674	0.2700		108	95593	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.673	9.701	-0.028	1.003	153628	0.004774	Target=0.00	95.5	805	
363.00 > 169.00	9.673	9.701	-0.028	1.003	44032		3.49(0.00-0.00)	95.5	872	
15 Hydro-PS Acid										
463.00 > 262.90	9.673	9.730	-0.057		118867	0.005040		101	2622	
17 PFECA G										
378.90 > 184.90	9.788	9.816	-0.028		22903	0.005070		101	621	
18 PFO4DA										
376.90 > 85.00	9.932	9.988	-0.056		28703	0.005526		111	585	
20 EVE Acid										
407.00 > 262.90	10.018	10.046	-0.028		199662	0.005195		104	5413	
19 PS Acid										
443.00 > 146.90	9.989	10.046	-0.057		54303	0.005229		105	1450	
21 TAF										
442.90 > 85.00	10.519	10.565	-0.046		20779	0.004739		94.8	164	

**QC Flag Legend**

Processing Flags

Review Flags

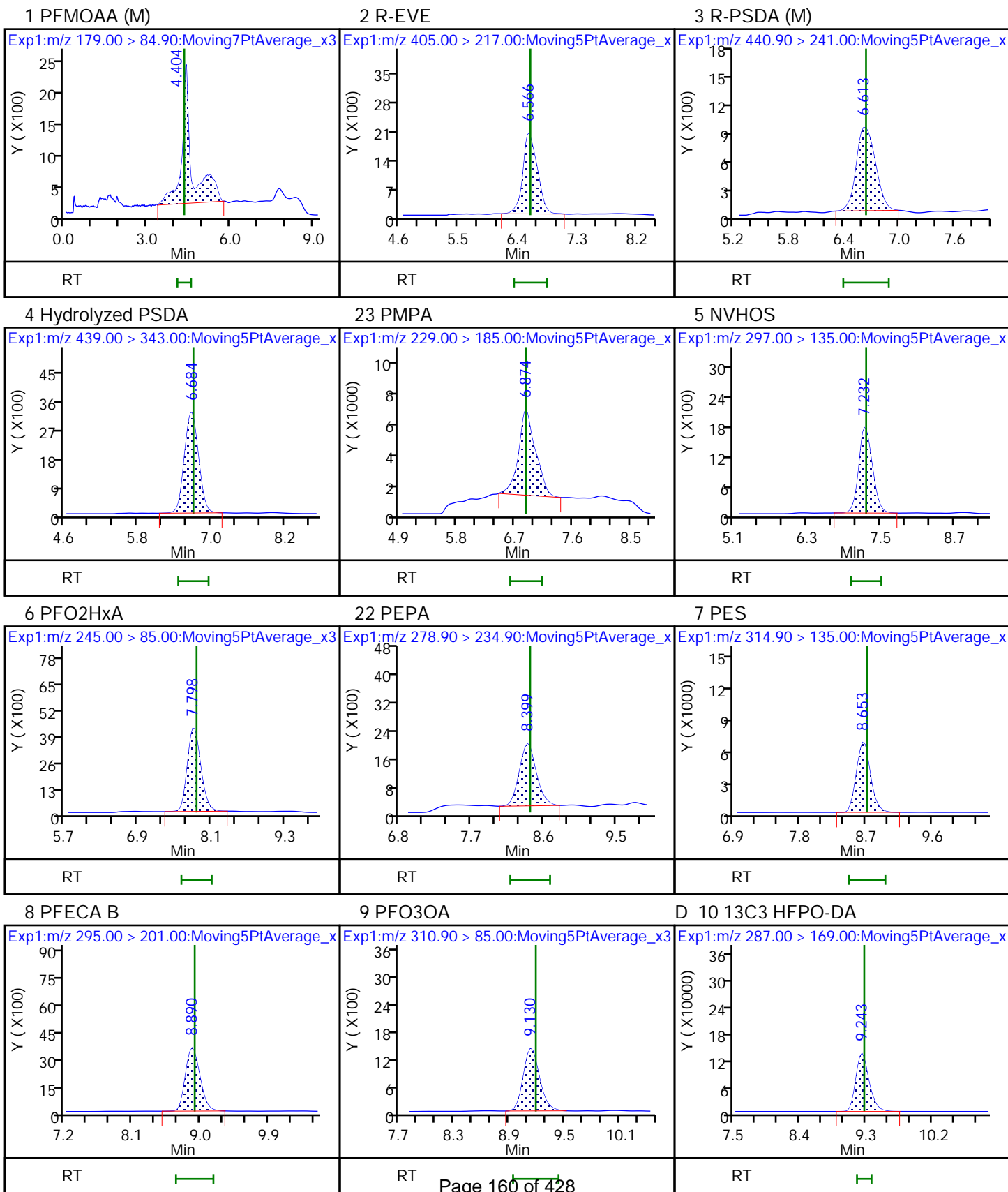
M - Manually Integrated

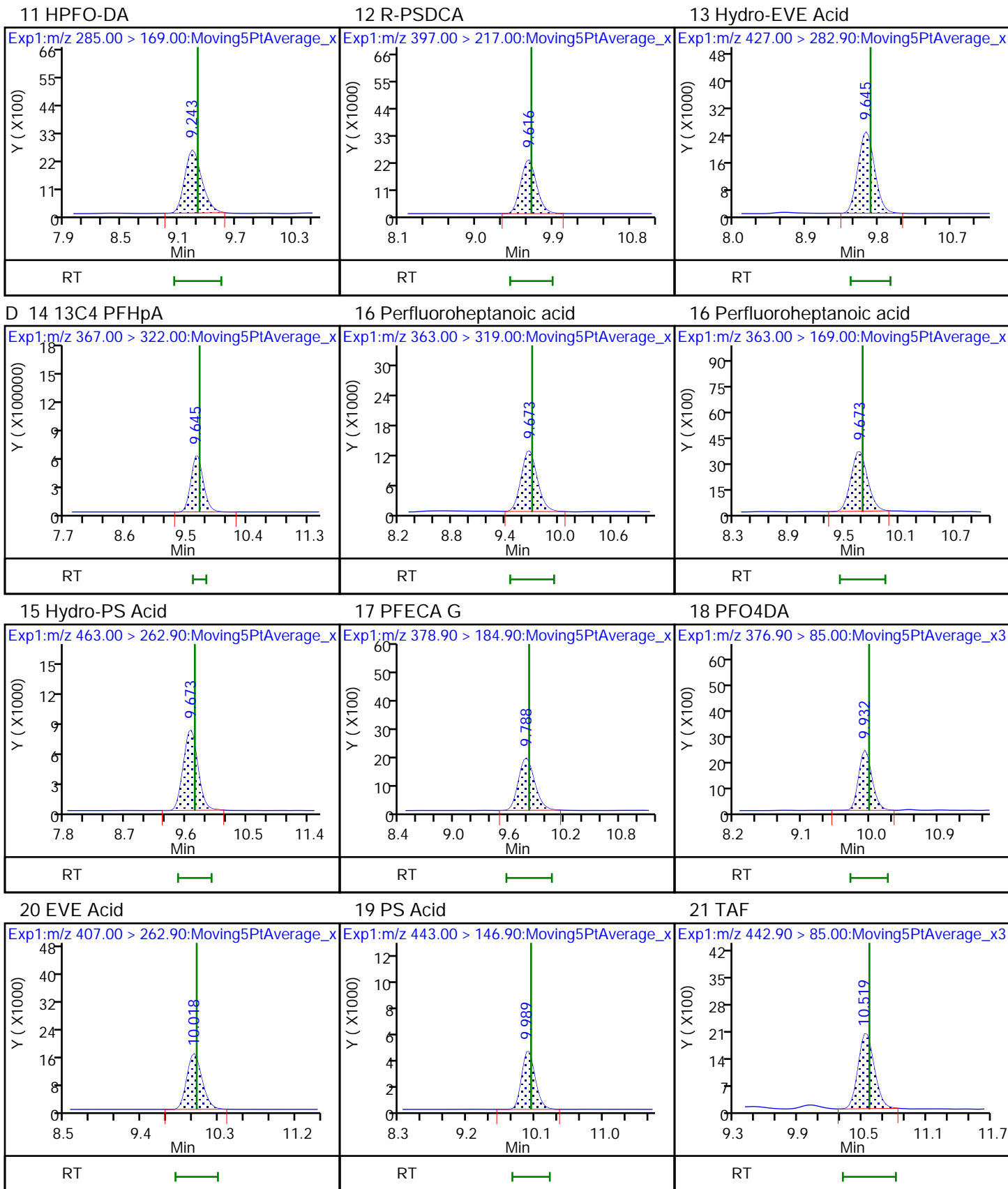
**Reagents:**

LCTB3\_LLSTD3\_00048

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

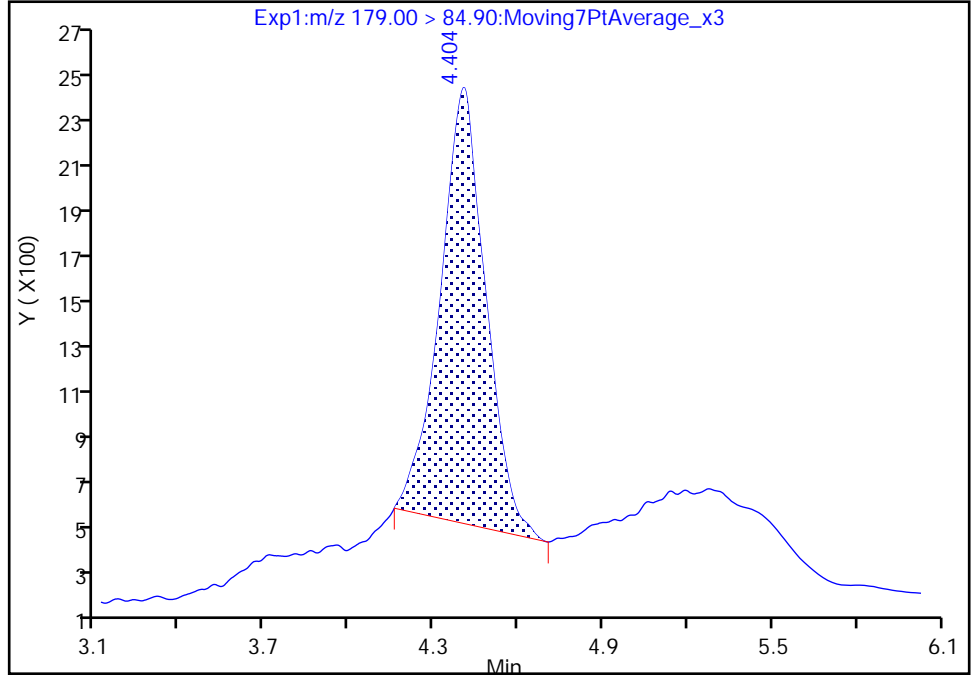
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_005.d  
Injection Date: 08-Mar-2021 15:21:14 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

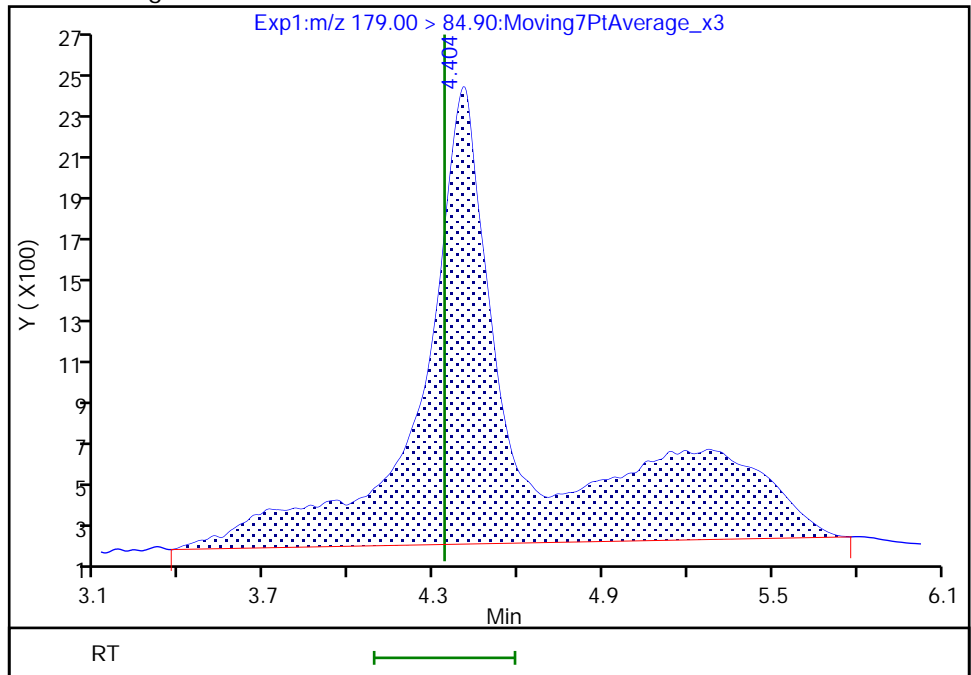
RT: 4.40  
Area: 21177  
Amount: 0.002694  
Amount Units: ng/ml

Processing Integration Results



RT: 4.40  
Area: 56162  
Amount: 0.005003  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:34:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

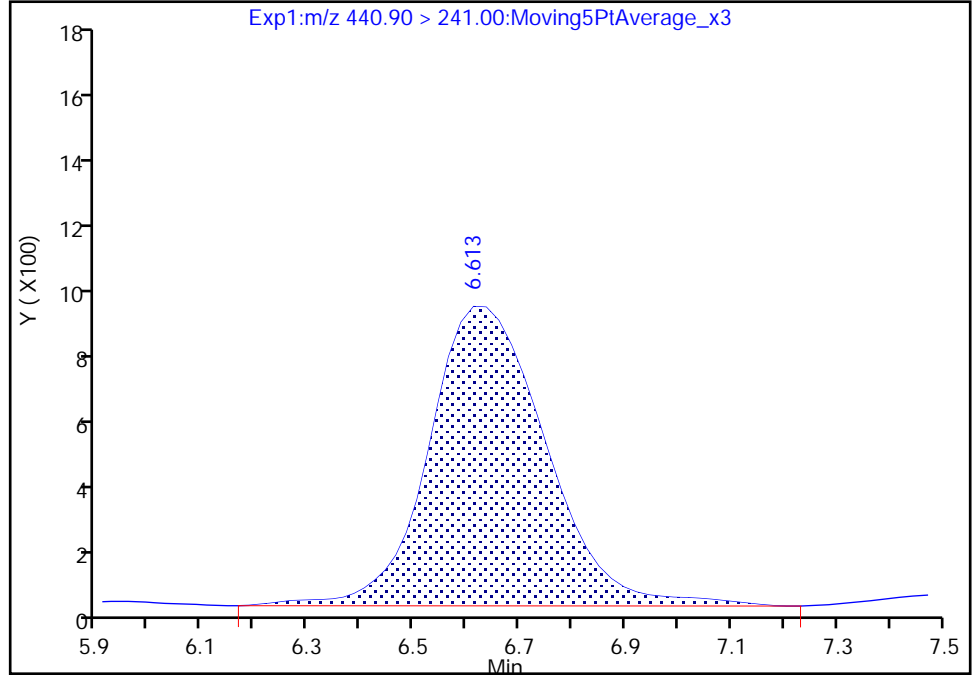
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_005.d  
Injection Date: 08-Mar-2021 15:21:14 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 5 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

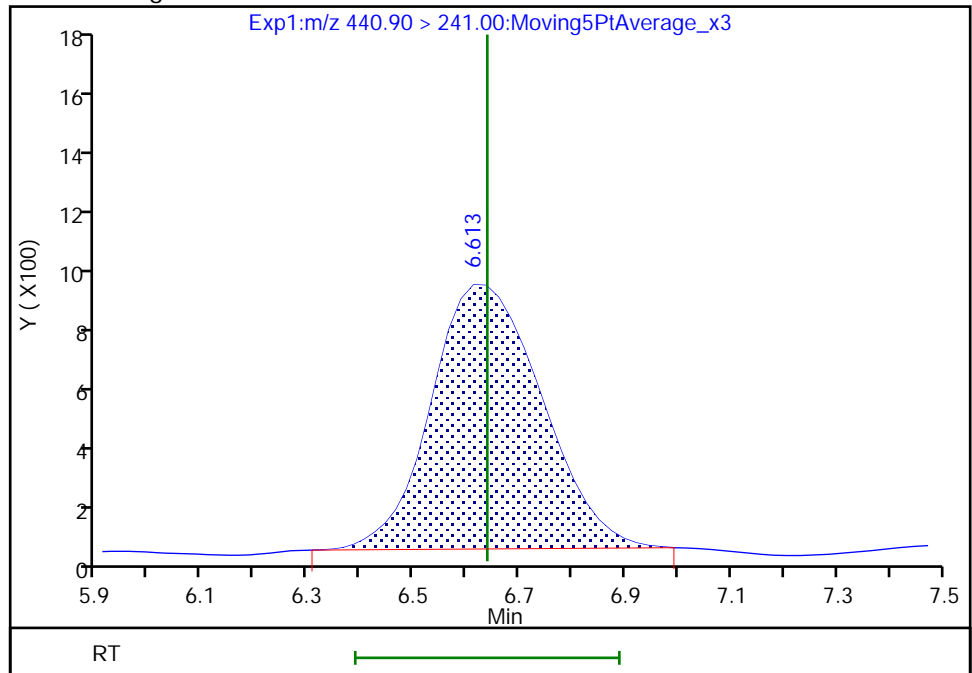
RT: 6.61  
Area: 13917  
Amount: 0.005022  
Amount Units: ng/ml

Processing Integration Results



RT: 6.61  
Area: 12788  
Amount: 0.004772  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:35:09  
Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_006.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 08-Mar-2021 15:38:50 ALS Bottle#: 6 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (47)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:13 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: kwongg Date: 08-Mar-2021 17:04:04

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.079	4.337	-0.258		110698	0.009861		98.6	9.5	M
2 R-EVE										
405.00 > 217.00	6.528	6.591	-0.063		61641	0.0104		104	967	
3 R-PSDA										M
440.90 > 241.00	6.568	6.639	-0.071		26704	0.0100		99.6	325	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.639	6.710	-0.071		104805	0.0104		104	1466	
23 PMPA										
229.00 > 185.00	6.829	6.876	-0.047		188799	0.0110		110	124	
5 NVHOS										
297.00 > 135.00	7.208	7.260	-0.052		55286	0.0104		104	968	
6 PFO2HxA										
245.00 > 85.00	7.800	7.862	-0.062		129242	0.0103		103	1289	
22 PEPA										
278.90 > 234.90	8.398	8.431	-0.033		54842	0.0107		107	218	
7 PES										
314.90 > 135.00	8.649	8.715	-0.066		169587	0.009552		95.5	4113	
8 PFECA B										
295.00 > 201.00	8.891	8.925	-0.034		89105	0.0104		104	1666	
9 PFO3OA										
310.90 > 85.00	9.130	9.190	-0.060		36295	0.0107		107	729	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.243	9.274	-0.031		1658891	0.2623		105	43982	
11 HPFO-DA										
285.00 > 169.00	9.243	9.302	-0.059	1.000	70048	0.0102		102	1852	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.617	9.644	-0.027		564909	0.0112		112	14805	
13 Hydro-EVE Acid										
427.00 > 282.90	9.645	9.701	-0.056		699286	0.0107		107	4038	
D 14 13C4 PFHpA										
367.00 > 322.00	9.674	9.701	-0.027		7271138	0.2680		107	95835	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.674	9.701	-0.027	1.000	301416	0.009436	Target=0.00	94.4	1409	
363.00 > 169.00	9.674	9.701	-0.027	1.000	84739		3.56(0.00-0.00)	94.4	1355	
15 Hydro-PS Acid										
463.00 > 262.90	9.674	9.730	-0.056		244201	0.0104		104	5410	
17 PFECA G										
378.90 > 184.90	9.789	9.816	-0.027		48620	0.0108		108	1311	
18 PFO4DA										
376.90 > 85.00	9.932	9.988	-0.056		56911	0.0110		110	1157	
20 EVE Acid										
407.00 > 262.90	10.018	10.046	-0.028		425539	0.0111		111	8722	
19 PS Acid										
443.00 > 146.90	10.018	10.046	-0.028		109802	0.0106		106	2994	
21 TAF										
442.90 > 85.00	10.543	10.565	-0.022		48252	0.0110		110	383	

**QC Flag Legend**

Processing Flags

Review Flags

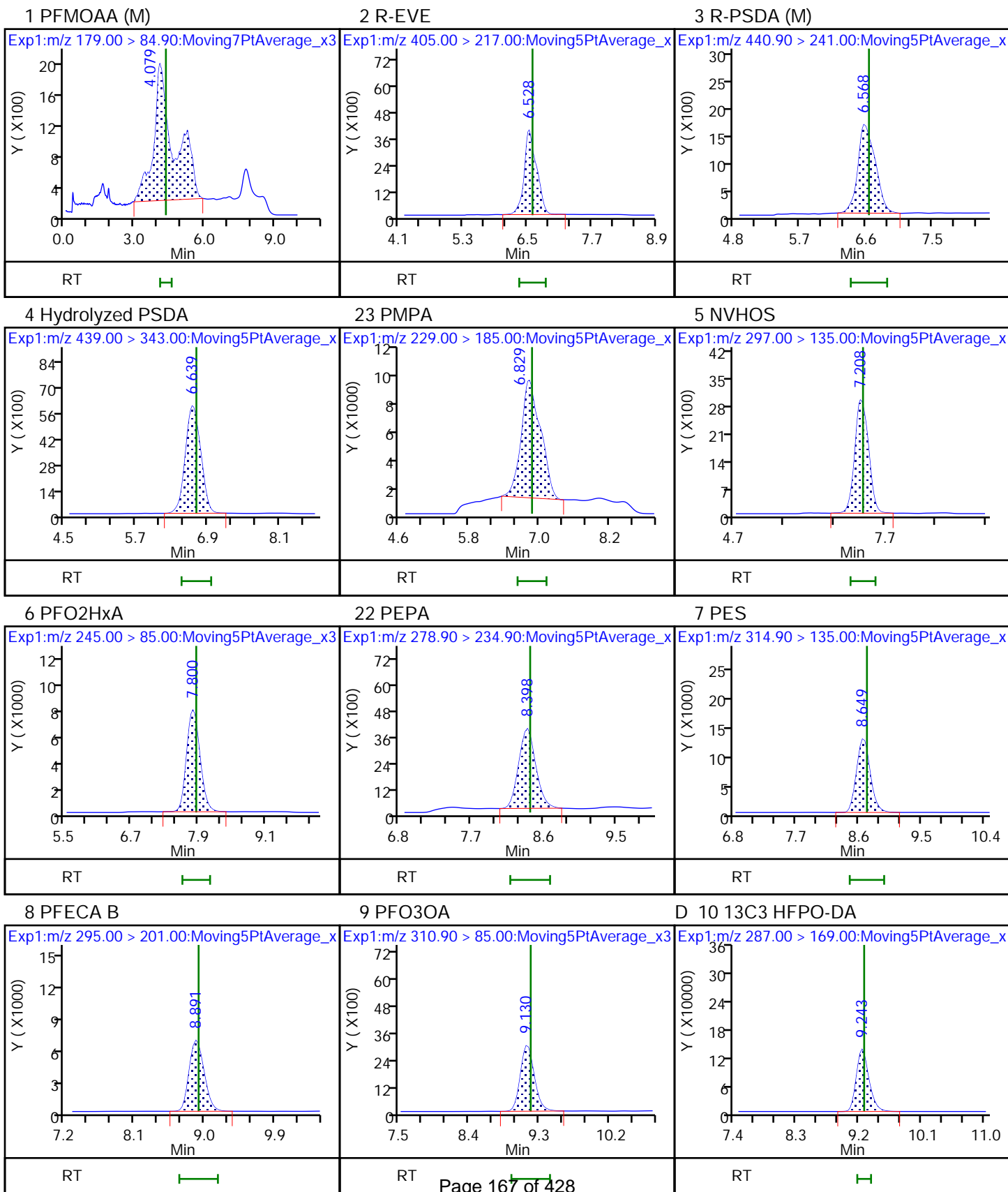
M - Manually Integrated

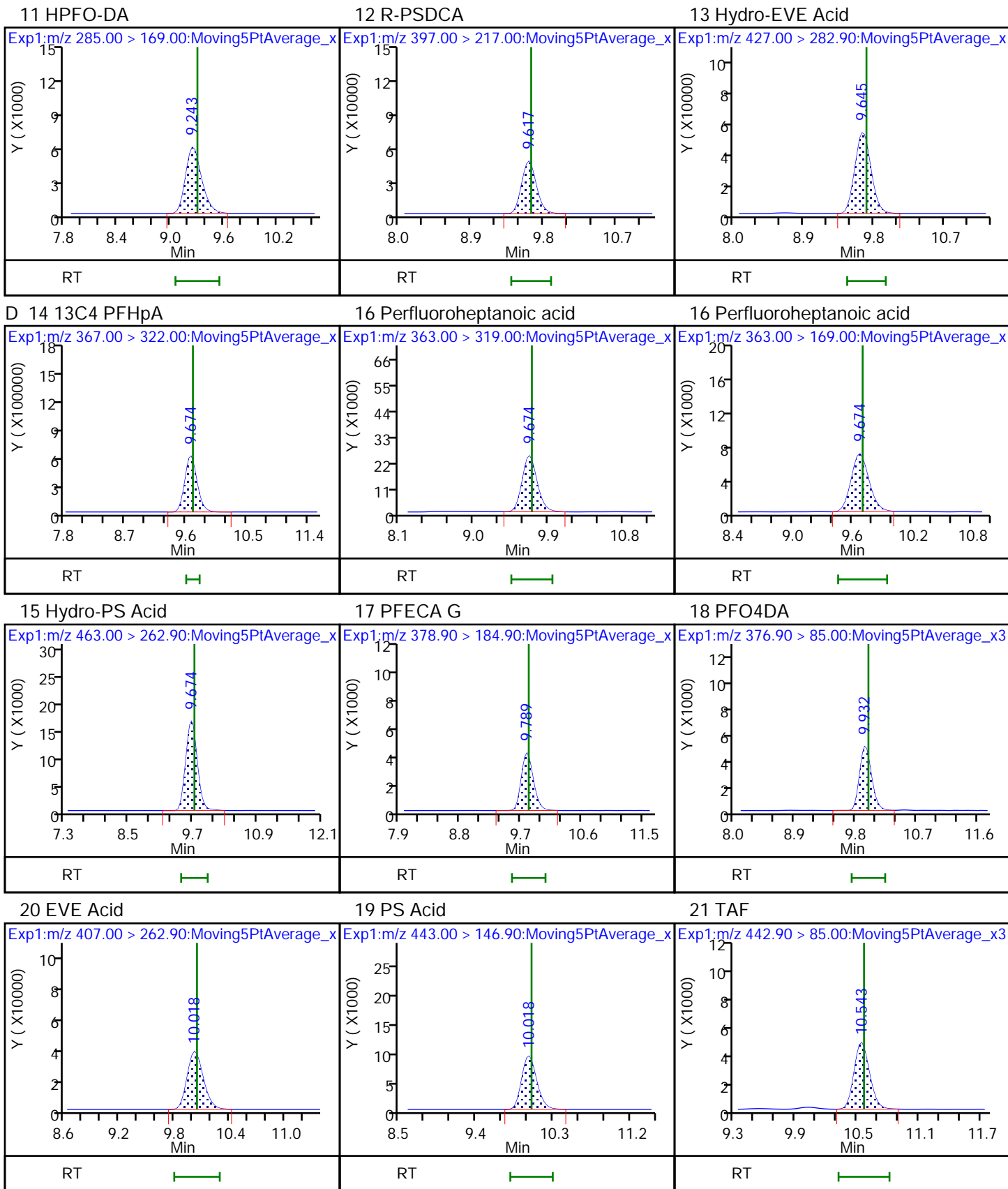
**Reagents:**

LCTB3\_LLSTD4\_00047

Amount Added: 1.00

Units: mL







Eurofins TestAmerica, Sacramento

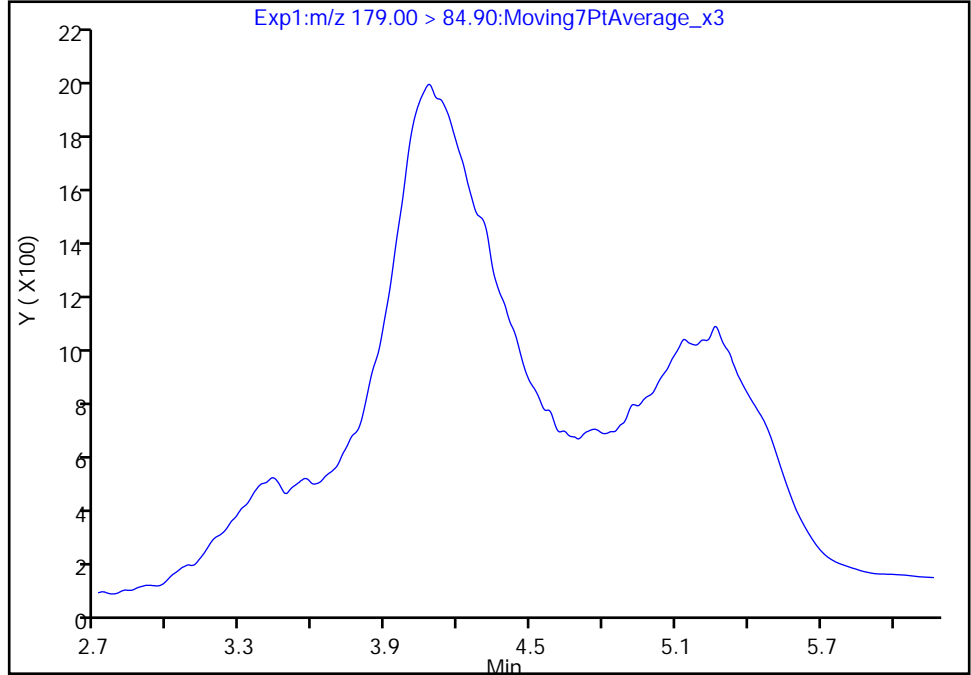
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_006.d  
Injection Date: 08-Mar-2021 15:38:50 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

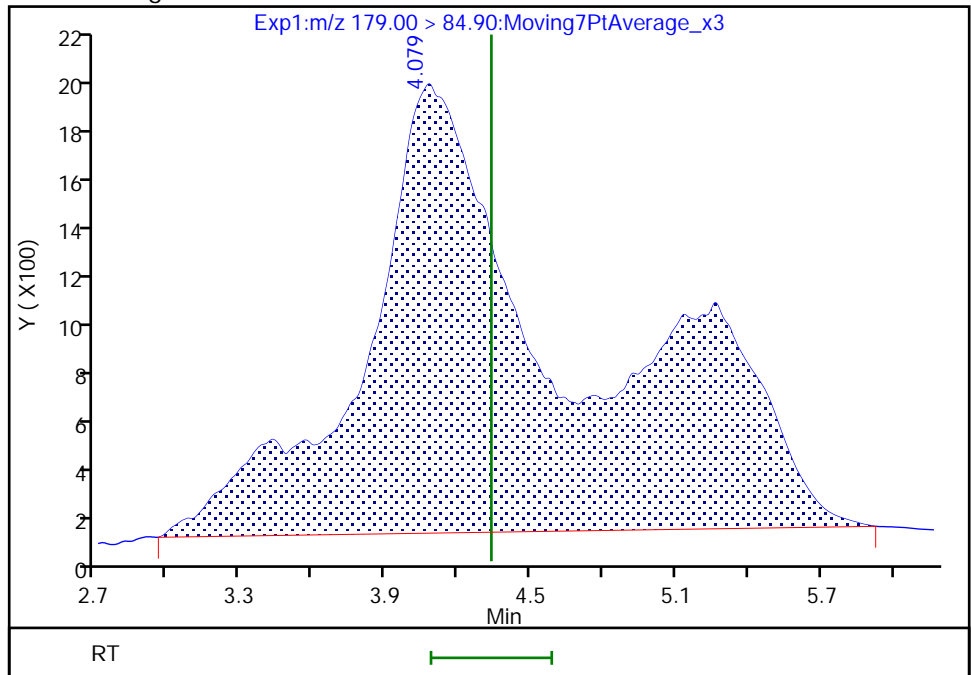
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 4.08  
Area: 110698  
Amount: 0.009861  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:35:37  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

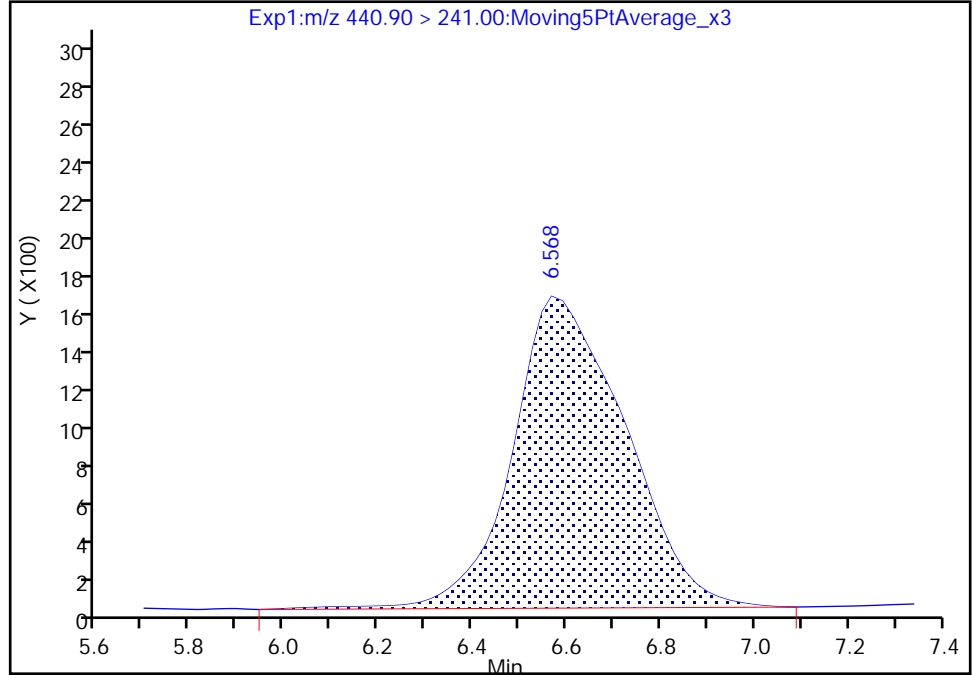
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_006.d  
Injection Date: 08-Mar-2021 15:38:50 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

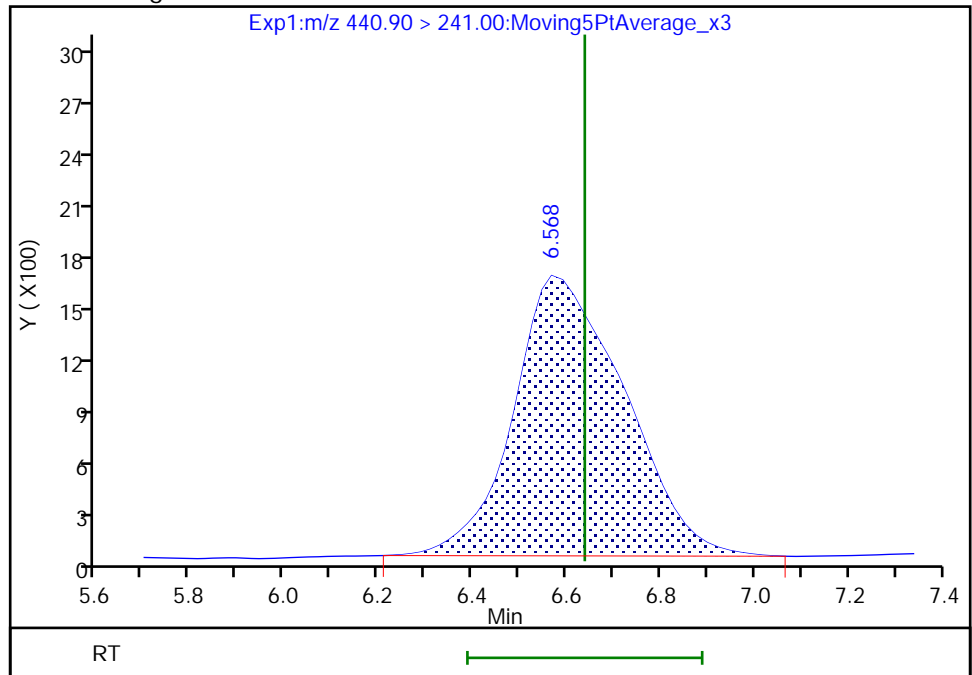
RT: 6.57  
Area: 27264  
Amount: 0.009918  
Amount Units: ng/ml

Processing Integration Results



RT: 6.57  
Area: 26704  
Amount: 0.009965  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:35:49  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_007.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 08-Mar-2021 15:56:37 ALS Bottle#: 7 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (57)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:14 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 04:14:39

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.327	4.337	-0.010		284701	0.0254		101	32.6	M
2 R-EVE										
405.00 > 217.00	6.546	6.591	-0.045		153482	0.0260		104	2087	
3 R-PSDA										
440.90 > 241.00	6.613	6.639	-0.026		69516	0.0259		104	1143	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.661	6.710	-0.050		263703	0.0261		104	4056	
23 PMPA										
229.00 > 185.00	6.850	6.876	-0.026		433517	0.0252		101	329	
5 NVHOS										
297.00 > 135.00	7.232	7.260	-0.028		137975	0.0260		104	2775	
6 PFO2HxA										
245.00 > 85.00	7.829	7.862	-0.033		319132	0.0254		101	3330	
22 PEPA										
278.90 > 234.90	8.399	8.431	-0.032		129608	0.0252		101	342	
7 PES										
314.90 > 135.00	8.653	8.715	-0.062		443453	0.0250		99.9	10873	
8 PFECA B										
295.00 > 201.00	8.890	8.925	-0.035		220502	0.0256		103	4111	
9 PFO3OA										
310.90 > 85.00	9.130	9.190	-0.060		90599	0.0267		107	2427	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.243	9.274	-0.031		1618844	0.2560		102	31992	
11 HPFO-DA										
285.00 > 169.00	9.243	9.302	-0.059	1.000	162686	0.0244		97.5	4274	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.616	9.644	-0.028		1390007	0.0275		110	26976	
13 Hydro-EVE Acid										
427.00 > 282.90	9.645	9.701	-0.056		1753131	0.0269		108	10953	
D 14 13C4 PFHpA										
367.00 > 322.00	9.673	9.701	-0.028		7084163	0.2611		104	110475	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.673	9.701	-0.028	1.000	743214	0.0239	Target=0.00	95.5	2776	
363.00 > 169.00	9.673	9.701	-0.028	1.000	203029		3.66(0.00-0.00)	95.5	3971	
15 Hydro-PS Acid										
463.00 > 262.90	9.673	9.730	-0.057		609055	0.0258		103	13393	
17 PFECA G										
378.90 > 184.90	9.788	9.816	-0.028		121727	0.0269		108	3264	
18 PFO4DA										
376.90 > 85.00	9.932	9.988	-0.056		147649	0.0284		114	2979	
20 EVE Acid										
407.00 > 262.90	10.018	10.046	-0.028		1024800	0.0267		107	20685	
19 PS Acid										
443.00 > 146.90	10.018	10.046	-0.028		277703	0.0267		107	7425	
21 TAF										
442.90 > 85.00	10.519	10.565	-0.046		116421	0.0266		106	781	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD5\_00057

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_007.d

Injection Date: 08-Mar-2021 15:56:37

Instrument ID: A12

Lims ID: IC STD 5

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 7

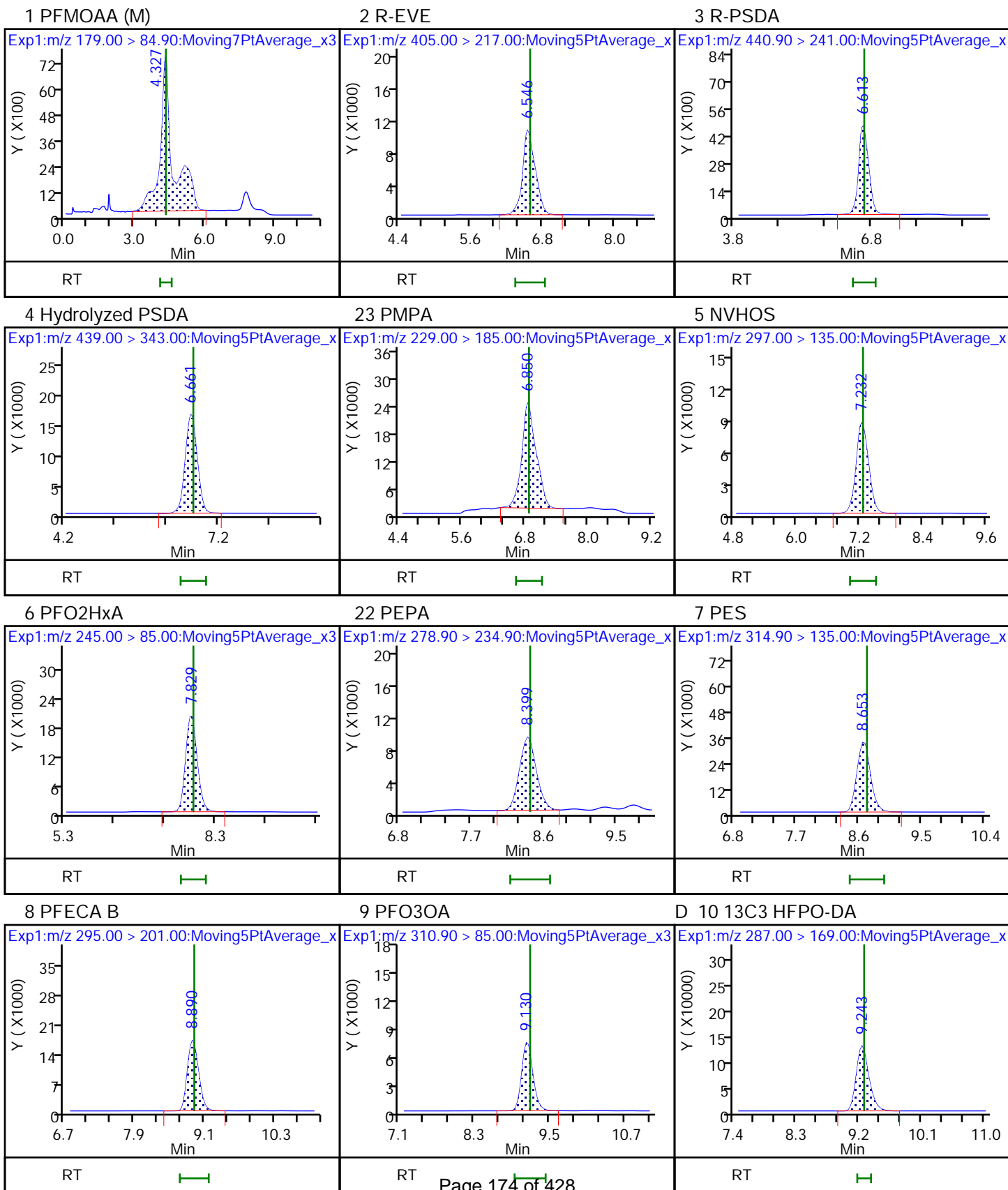
Worklist Smp#: 6

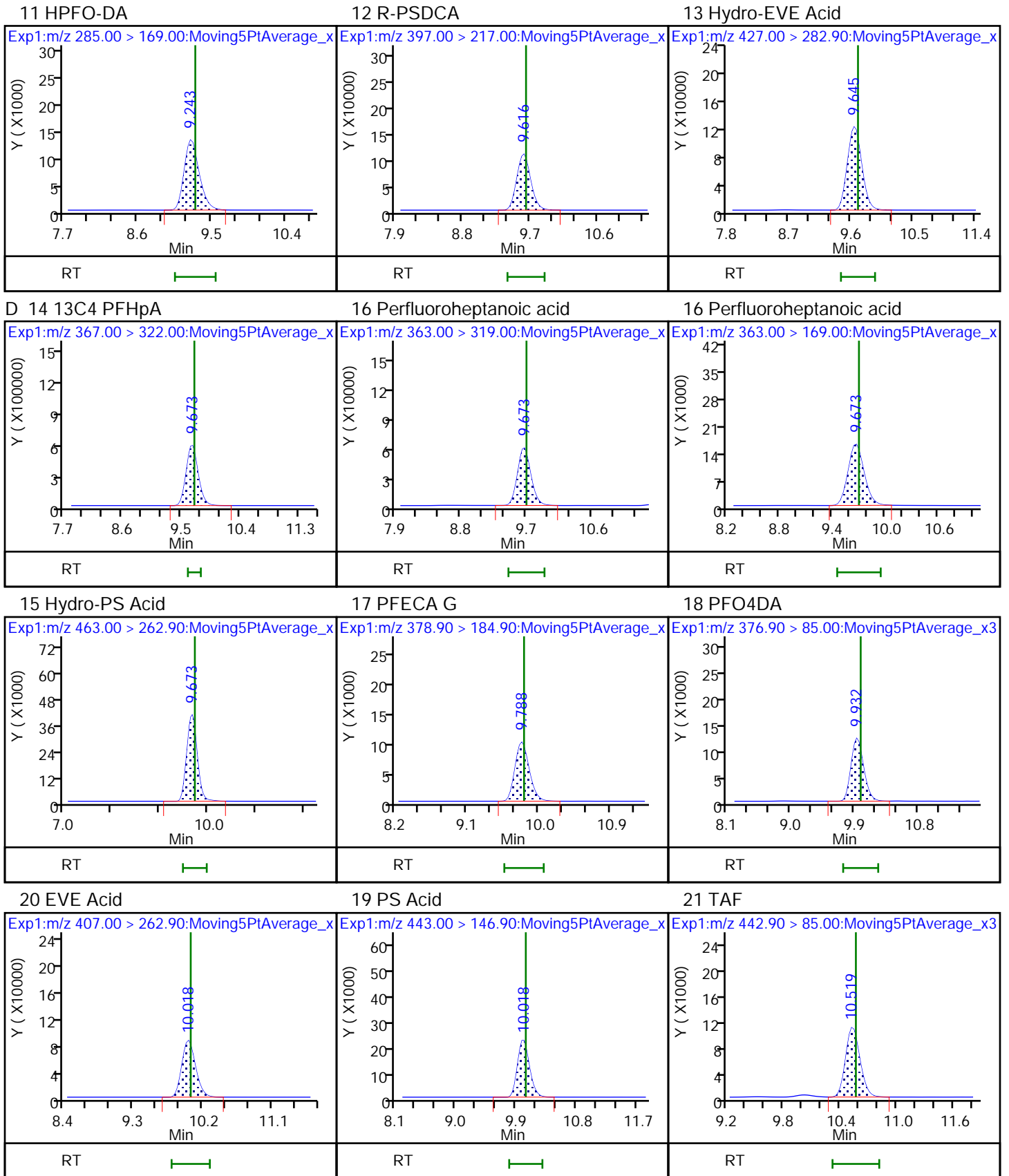
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

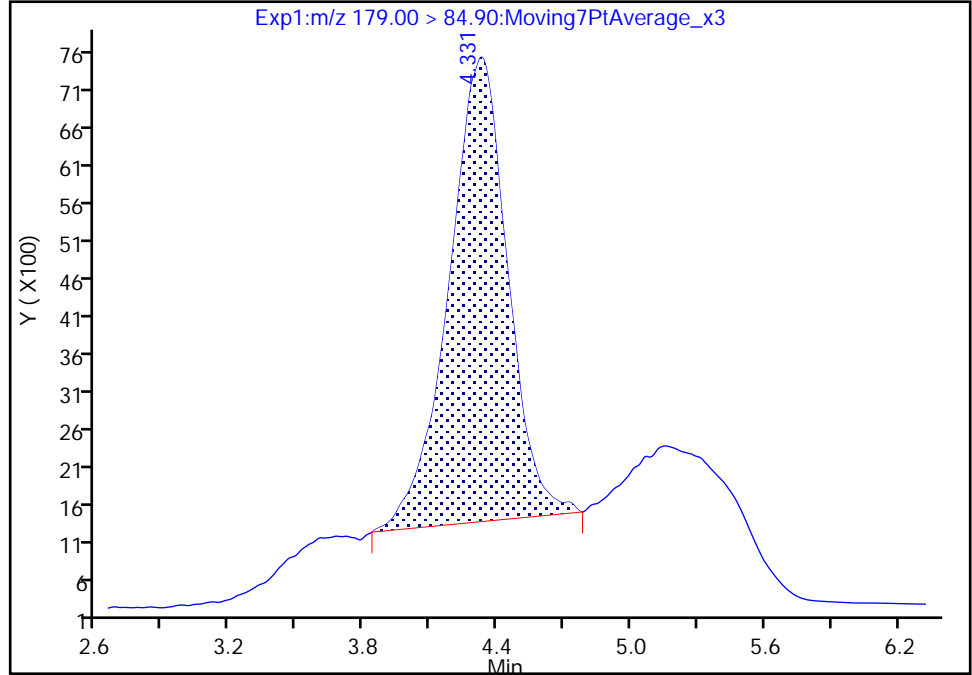
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Injection Date: 08-Mar-2021 15:56:37 Instrument ID: A12  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

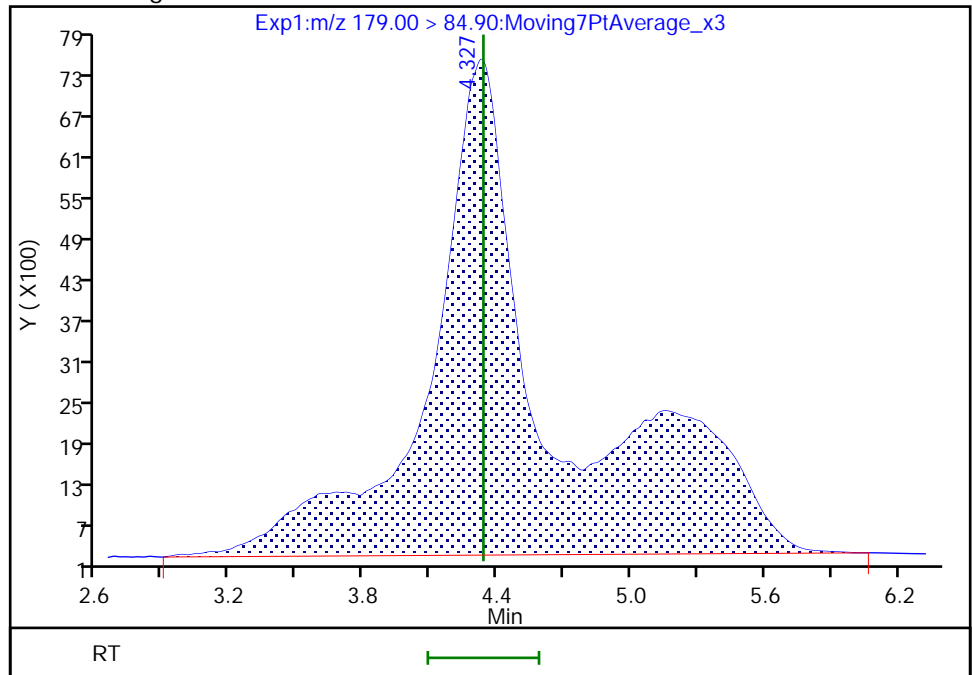
RT: 4.33  
Area: 113239  
Amount: 0.021664  
Amount Units: ng/ml

Processing Integration Results



RT: 4.33  
Area: 284701  
Amount: 0.025361  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 04:09:30  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_009.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 08-Mar-2021 16:32:00 ALS Bottle#: 9 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (90)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:15 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:36:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.346	4.337	0.009		527133	0.0470		93.9	94.9	M
2 R-EVE										
405.00 > 217.00	6.549	6.591	-0.042		285284	0.0482		96.5	3850	
3 R-PSDA										
440.90 > 241.00	6.616	6.639	-0.023		123602	0.0461		92.2	1621	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.663	6.710	-0.047		481065	0.0476		95.3	7579	
23 PMPA										
229.00 > 185.00	6.853	6.876	-0.023		792575	0.0461		92.2	757	
5 NVHOS										
297.00 > 135.00	7.235	7.260	-0.025		251340	0.0474		94.9	5450	
6 PFO2HxA										
245.00 > 85.00	7.832	7.862	-0.030		595321	0.0473		94.6	6490	
22 PEPA										
278.90 > 234.90	8.400	8.431	-0.031		260244	0.0505		101	1134	
7 PES										
314.90 > 135.00	8.683	8.715	-0.033		808659	0.0455		91.1	20346	
8 PFECA B										
295.00 > 201.00	8.892	8.925	-0.033		407038	0.0473		94.7	7590	
9 PFO3OA										
310.90 > 85.00	9.160	9.190	-0.030		159509	0.0470		94.1	3222	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.245	9.274	-0.029		1700605	0.2689		108	44908	
11 HPFO-DA										
285.00 > 169.00	9.273	9.302	-0.029	1.003	310204	0.0442		88.5	8154	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.618	9.644	-0.026		2396230	0.0474		94.7	37901	
13 Hydro-EVE Acid										
427.00 > 282.90	9.647	9.701	-0.054		3123853	0.0479		95.8	16679	
D 14 13C4 PFHpA										
367.00 > 322.00	9.676	9.701	-0.025		6480776	0.2389		95.5	86457	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.676	9.701	-0.025	1.000	1260231	0.0443	Target=0.00	88.5	5636	
363.00 > 169.00	9.676	9.701	-0.025	1.000	366169		3.44(0.00-0.00)	88.5	7405	
15 Hydro-PS Acid										
463.00 > 262.90	9.676	9.730	-0.054		1093259	0.0464		92.7	24155	
17 PFECA G										
378.90 > 184.90	9.790	9.816	-0.026		202591	0.0448		89.7	5503	
18 PFO4DA										
376.90 > 85.00	9.934	9.988	-0.054		249708	0.0481		96.1	5110	
20 EVE Acid										
407.00 > 262.90	10.020	10.046	-0.026		1891224	0.0492		98.4	31033	
19 PS Acid										
443.00 > 146.90	10.020	10.046	-0.026		492991	0.0475		94.9	13505	
21 TAF										
442.90 > 85.00	10.545	10.565	-0.020		204623	0.0467		93.3	1157	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00090

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_009.d

Injection Date: 08-Mar-2021 16:32:00

Instrument ID: A12

Lims ID: IC STD 6

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 9

Worklist Smp#: 8

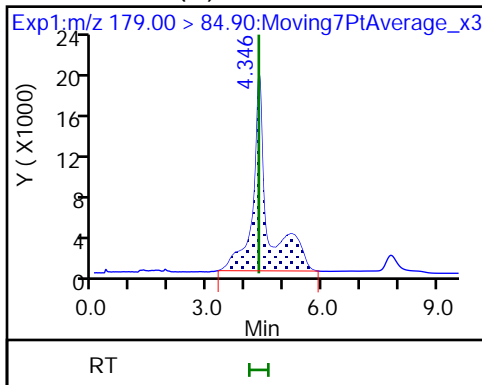
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

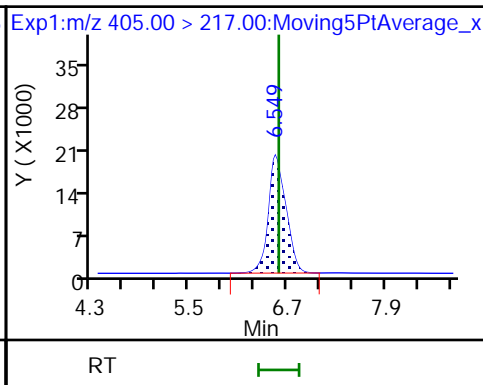
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

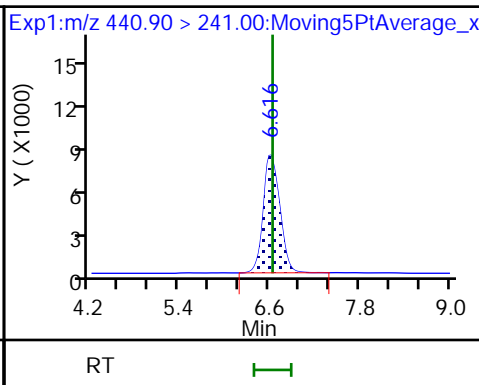
1 PFMOAA (M)



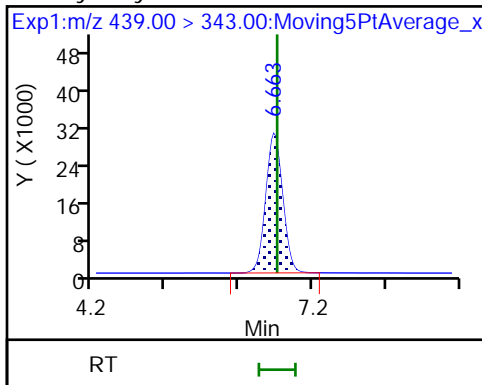
2 R-EVE



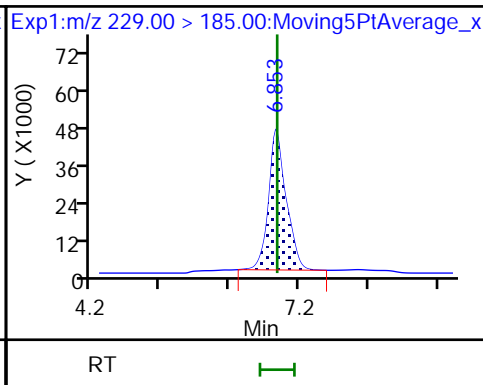
3 R-PSDA



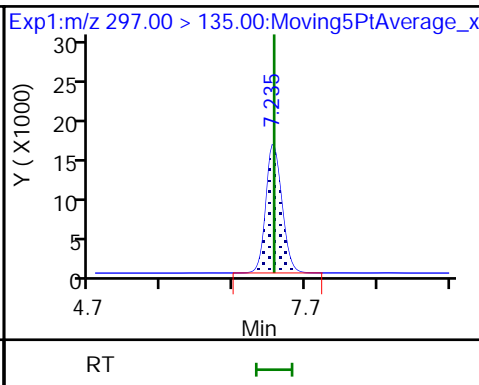
4 Hydrolyzed PSDA



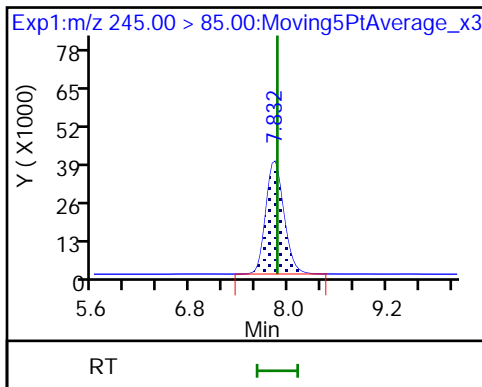
23 PMPA



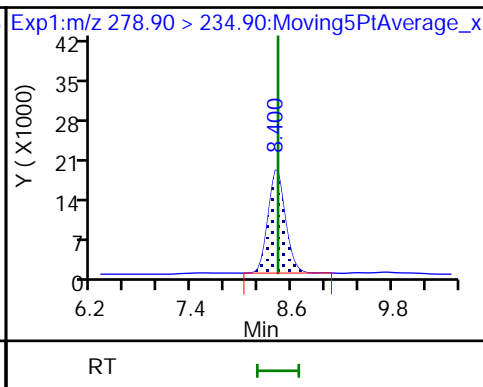
5 NVHOS



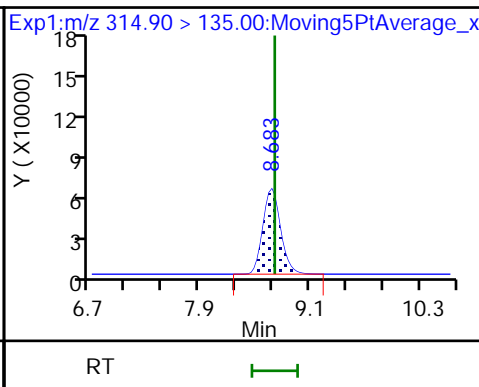
6 PFO2HxA



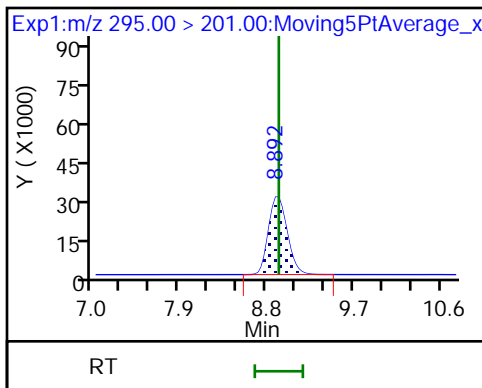
22 PEPA



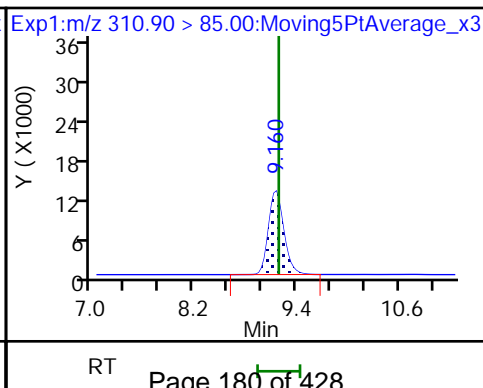
7 PES



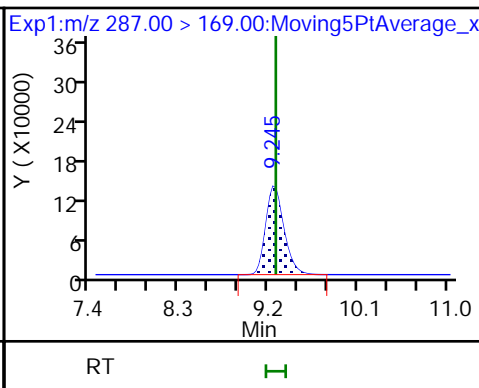
8 PFECA B

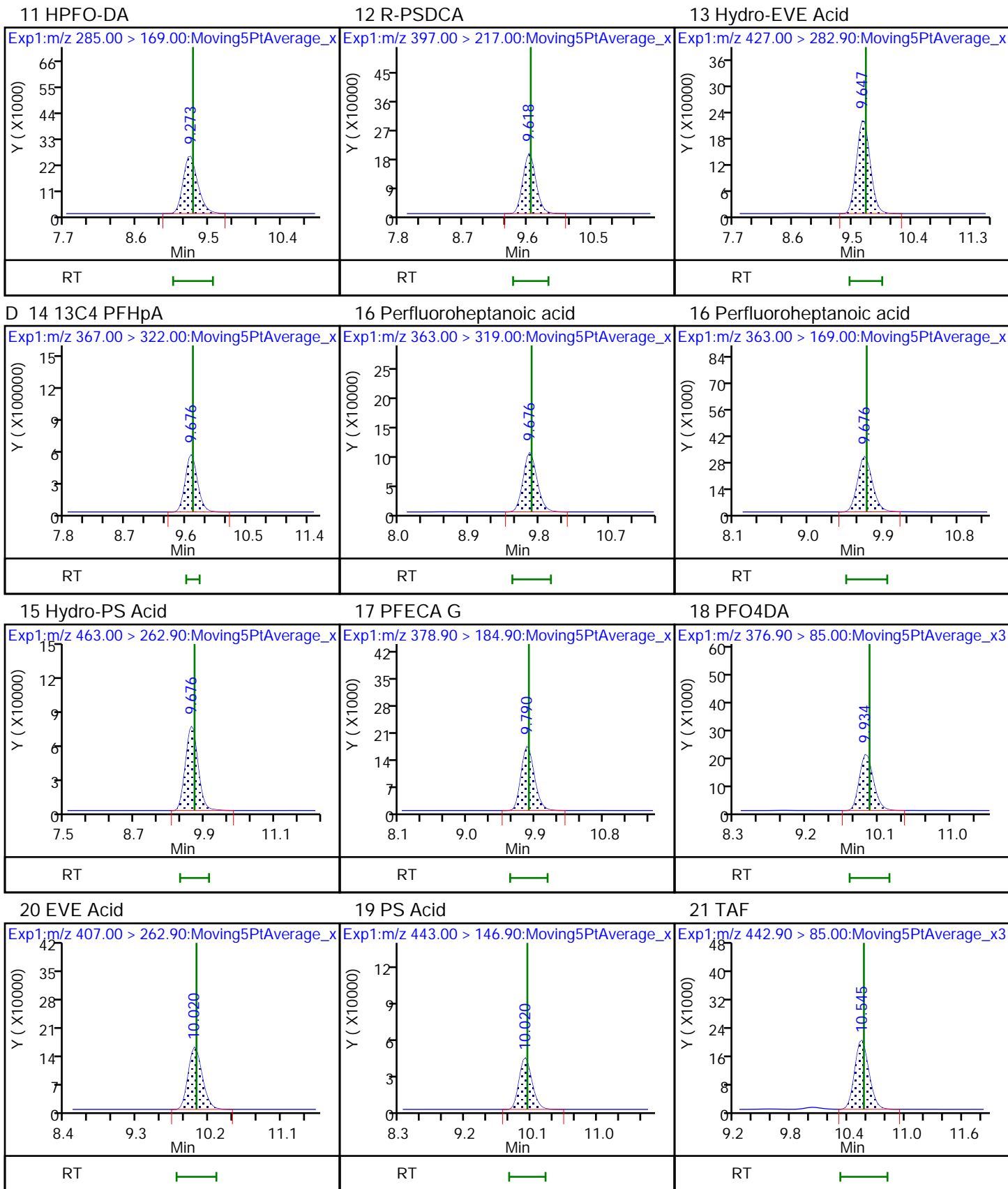


9 PFO3OA



D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

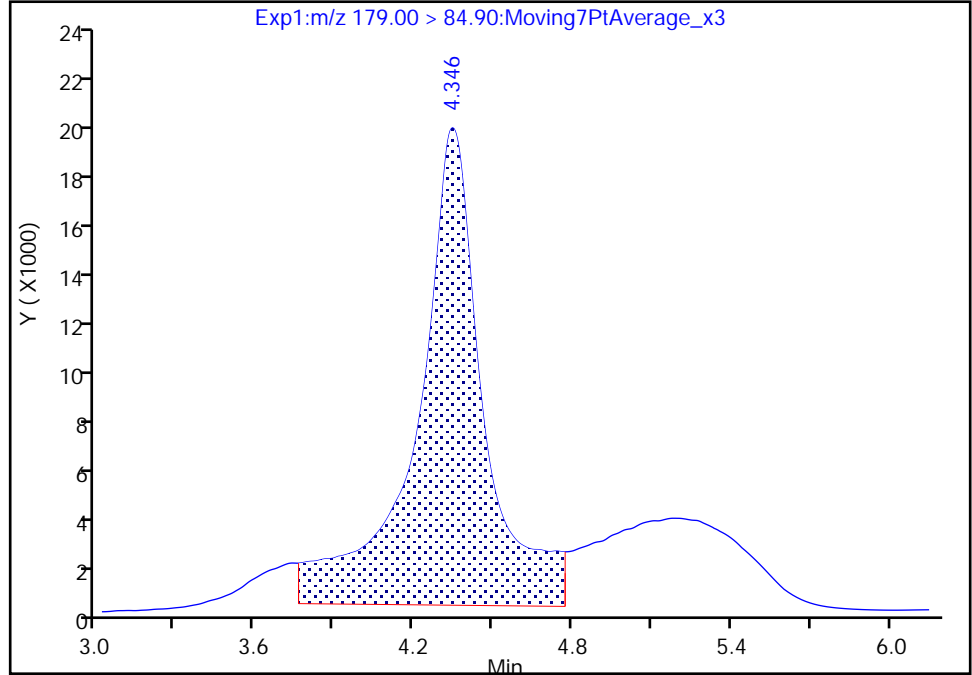
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_009.d  
Injection Date: 08-Mar-2021 16:32:00 Instrument ID: A12  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

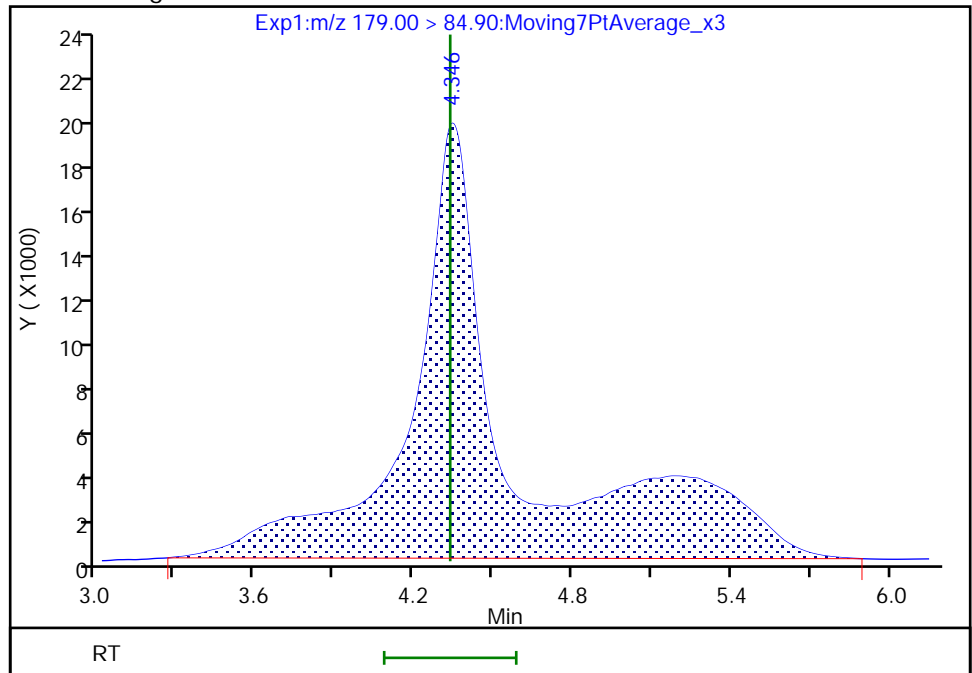
RT: 4.35  
Area: 344430  
Amount: 0.037700  
Amount Units: ng/ml

Processing Integration Results



RT: 4.35  
Area: 527133  
Amount: 0.046956  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:36:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_011.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 08-Mar-2021 17:07:09 ALS Bottle#: 11 Worklist Smp#: 10  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (443)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:16 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:36:47

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.258	4.337	-0.079		1089869	0.0971		97.1	113	M
2 R-EVE										
405.00 > 217.00	6.488	6.591	-0.103		603468	0.1020		102	10416	
3 R-PSDA										
440.90 > 241.00	6.548	6.639	-0.091		277743	0.1036		104	4805	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.615	6.710	-0.095		1019758	0.1010		101	15869	
23 PMPA										
229.00 > 185.00	6.805	6.876	-0.071		1614967	0.0939		93.9	1465	
5 NVHOS										
297.00 > 135.00	7.184	7.260	-0.076		529075	0.0998		99.8	11071	
6 PFO2HxA										
245.00 > 85.00	7.770	7.862	-0.092		1223647	0.0972		97.2	11213	
22 PEPA										
278.90 > 234.90	8.370	8.431	-0.061		518748	0.1008		101	1589	
7 PES										
314.90 > 135.00	8.620	8.715	-0.095		1628577	0.0917		91.7	40091	
8 PFECA B										
295.00 > 201.00	8.860	8.925	-0.065		850192	0.0989		98.9	15958	
9 PFO3OA										
310.90 > 85.00	9.104	9.190	-0.086		355867	0.1049		105	7134	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.217	9.274	-0.058		1522203	0.2407		96.3	30182	
11 HPFO-DA										
285.00 > 169.00	9.217	9.302	-0.086	1.000	644858	0.1028		103	17251	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.557	9.644	-0.087		4852881	0.0959		95.9	61226	
13 Hydro-EVE Acid										
427.00 > 282.90	9.618	9.701	-0.083		6383181	0.0979		97.9	31346	
D 14 13C4 PFHpA										
367.00 > 322.00	9.618	9.701	-0.083		6654143	0.2453		98.1	86491	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.618	9.701	-0.083	1.000	2598671	0.0889	Target=0.00	88.9	7772	
363.00 > 169.00	9.618	9.701	-0.083	1.000	753012		3.45(0.00-0.00)	88.9	14680	
15 Hydro-PS Acid										
463.00 > 262.90	9.647	9.730	-0.083		2267939	0.0962		96.2	37224	
17 PFECA G										
378.90 > 184.90	9.733	9.816	-0.083		440813	0.0976		97.6	11773	
18 PFO4DA										
376.90 > 85.00	9.905	9.988	-0.083		502711	0.0968		96.8	8143	
20 EVE Acid										
407.00 > 262.90	9.991	10.046	-0.055		3982692	0.1036		104	53392	
19 PS Acid										
443.00 > 146.90	9.962	10.046	-0.084		1039141	0.1001		100	21304	
21 TAF										
442.90 > 85.00	10.497	10.565	-0.068		436127	0.0995		99.5	1957	

**QC Flag Legend**

Processing Flags

Review Flags

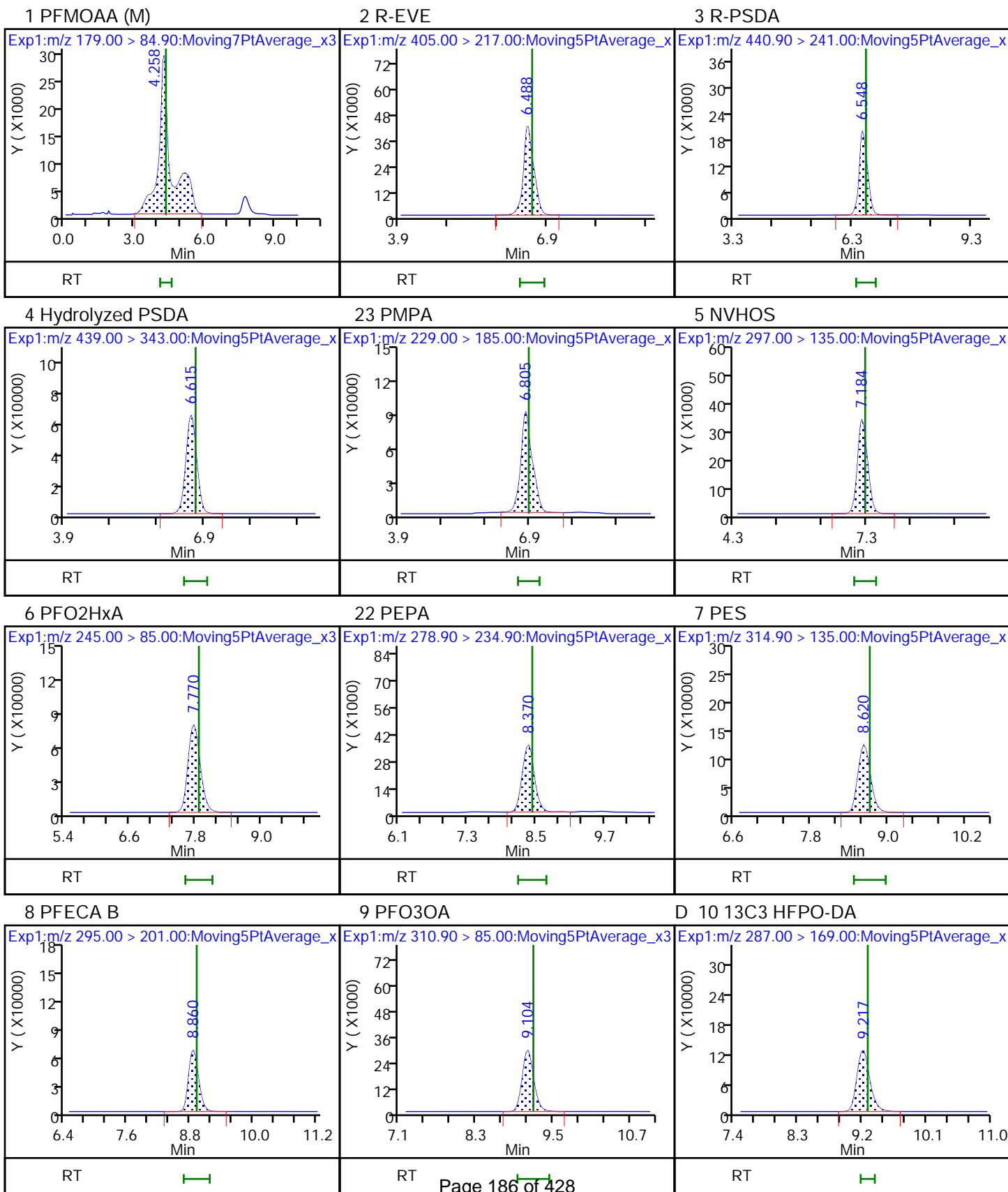
M - Manually Integrated

**Reagents:**

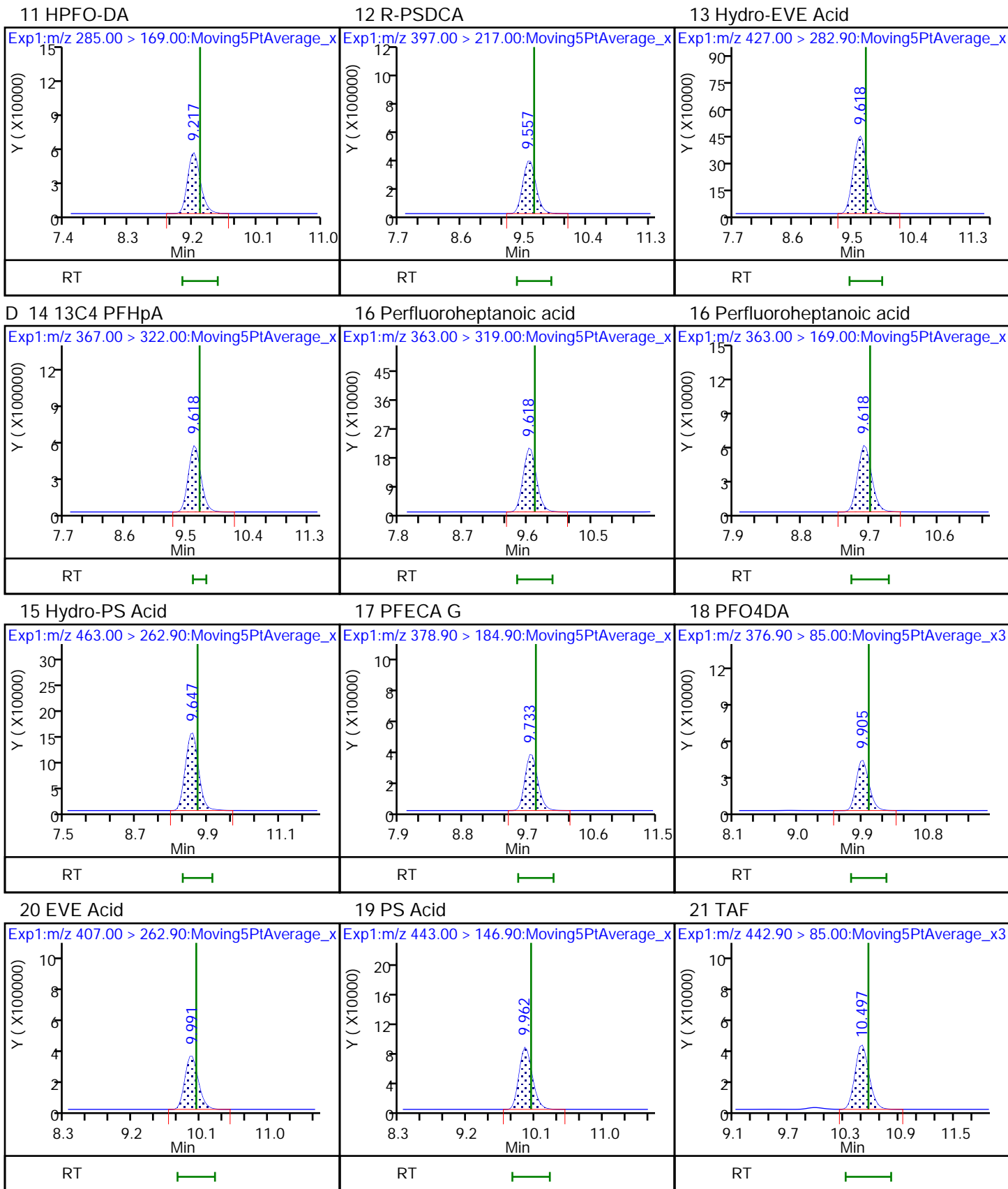
LCTB3\_LLSTD7\_00443

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

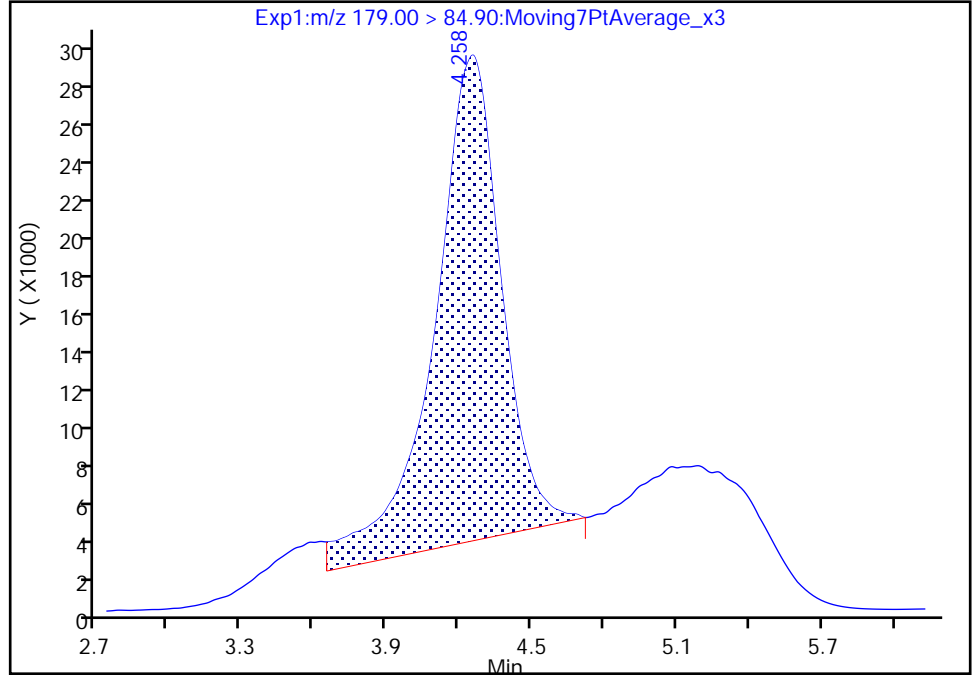
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Injection Date: 08-Mar-2021 17:07:09 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 11 Worklist Smp#: 10  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

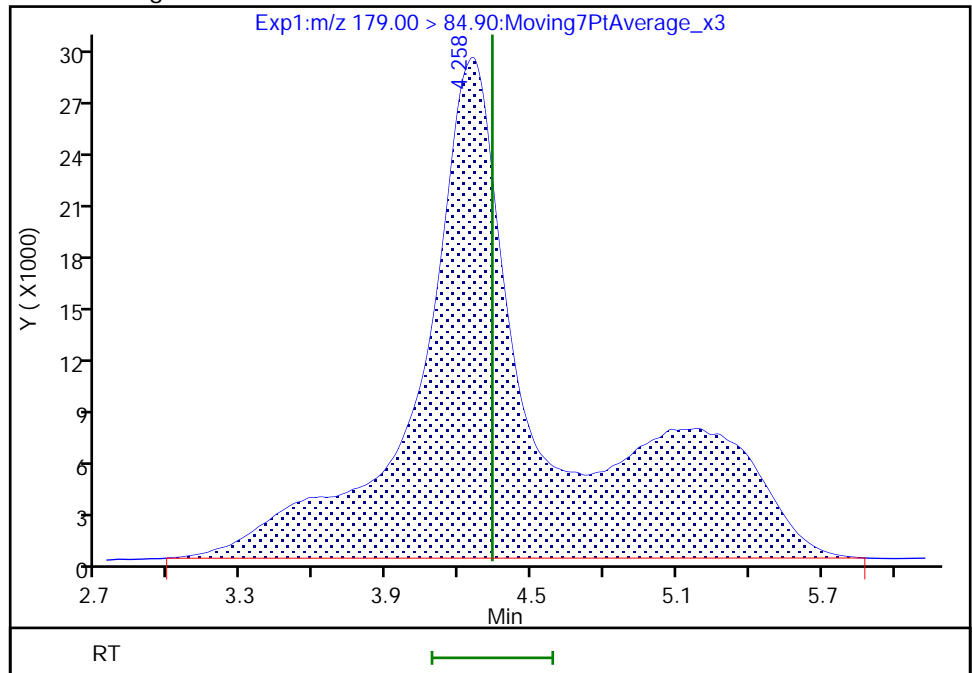
RT: 4.26  
Area: 495492  
Amount: 0.051652  
Amount Units: ng/ml

Processing Integration Results



RT: 4.26  
Area: 1089869  
Amount: 0.097084  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:36:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 189 of 428

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_013.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 08-Mar-2021 17:42:24 ALS Bottle#: 13 Worklist Smp#: 12  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (46)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:17 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:37:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.741	4.337	-0.596		2898414	0.2582		103	111	M
2 R-EVE										
405.00 > 217.00	6.394	6.591	-0.197		1449150	0.2450		98.0	11790	
3 R-PSDA										
440.90 > 241.00	6.434	6.639	-0.205		669453	0.2498		99.9	11143	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.514	6.710	-0.196		2528385	0.2504		100	28360	
23 PMPA										
229.00 > 185.00	6.692	6.876	-0.184		4188896	0.2435		97.4	3159	
5 NVHOS										
297.00 > 135.00	7.095	7.260	-0.165		1390463	0.2624		105	15194	
6 PFO2HxA										
245.00 > 85.00	7.716	7.862	-0.146		3194272	0.2538		102	24748	
22 PEPA										
278.90 > 234.90	8.341	8.431	-0.090		1298350	0.2522		101	4061	
7 PES										
314.90 > 135.00	8.601	8.715	-0.114		4514703	0.2543		102	64640	
8 PFECA B										
295.00 > 201.00	8.838	8.925	-0.087		2272793	0.2643		106	33542	
9 PFO3OA										
310.90 > 85.00	9.085	9.190	-0.105		844482	0.2490		99.6	16491	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.170	9.274	-0.104		1528632	0.2417		96.7	30139	M
11 HPFO-DA										
285.00 > 169.00	9.198	9.302	-0.104	1.003	1642908	0.2607		104	32494	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.567	9.644	-0.077		12847677	0.2539		102	108058	
13 Hydro-EVE Acid										
427.00 > 282.90	9.595	9.701	-0.106		17165771	0.2632		105	69220	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.595	9.701	-0.106		6454524	0.2379		95.2	62342	M
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.595	9.701	-0.106	1.000	6885904	0.2428	Target=0.00	97.1	16116	
363.00 > 169.00	9.595	9.701	-0.106	1.000	1943855		3.54(0.00-0.00)	97.1	29917	
15 Hydro-PS Acid										
463.00 > 262.90	9.624	9.730	-0.106		6099023	0.2586		103	80039	
17 PFECA G										
378.90 > 184.90	9.739	9.816	-0.077		1164693	0.2578		103	31017	
18 PFO4DA										
376.90 > 85.00	9.882	9.988	-0.106		1289936	0.2483		99.3	20948	
20 EVE Acid										
407.00 > 262.90	9.968	10.046	-0.078		10271801	0.2673		107	82621	
19 PS Acid										
443.00 > 146.90	9.940	10.046	-0.106		2678058	0.2579		103	43224	
21 TAF										
442.90 > 85.00	10.479	10.565	-0.086		1111618	0.2535		101	2929	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00046

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_013.d

Injection Date: 08-Mar-2021 17:42:24

Instrument ID: A12

Lims ID: IC STD 8

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 13

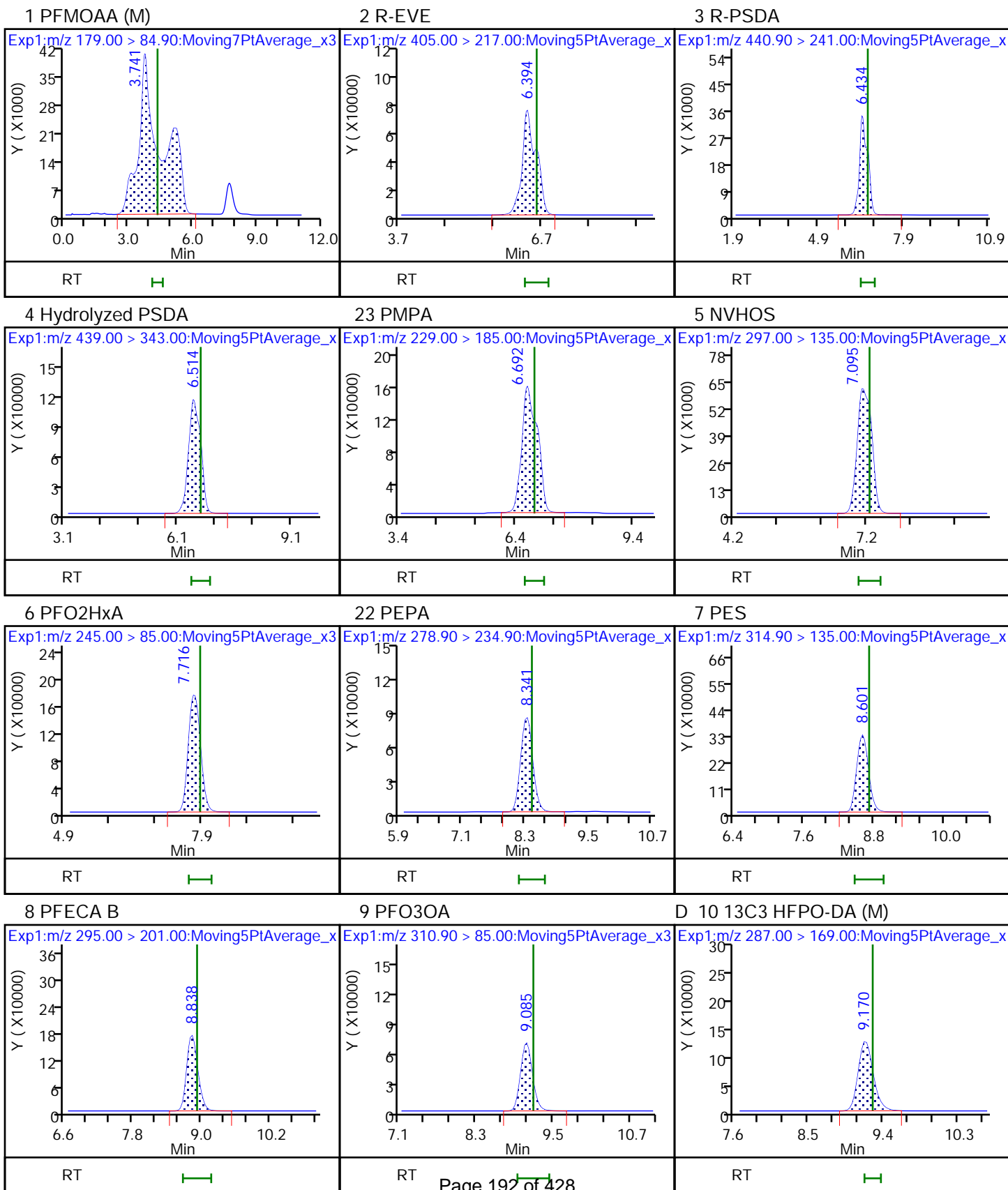
Worklist Smp#: 12

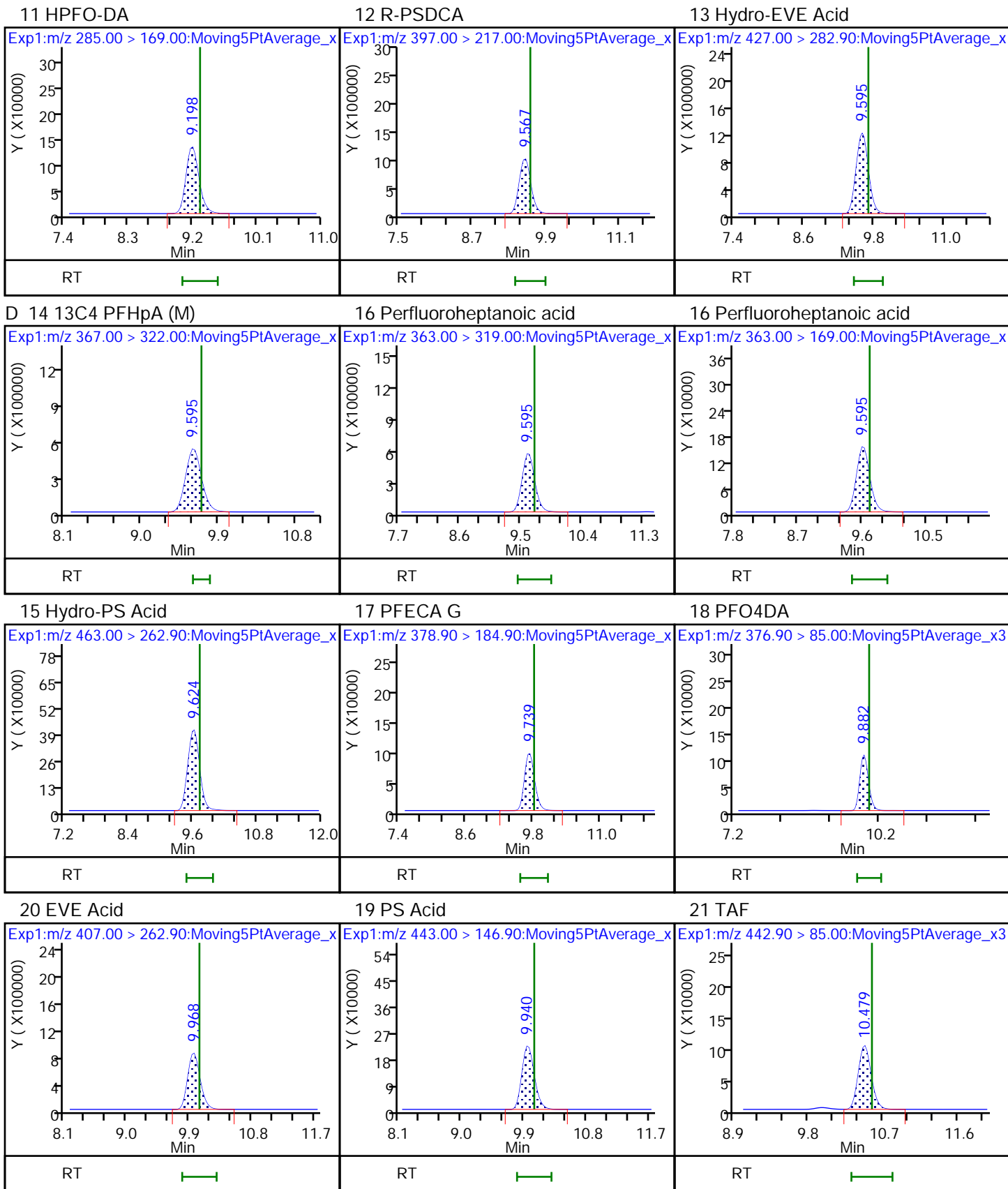
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

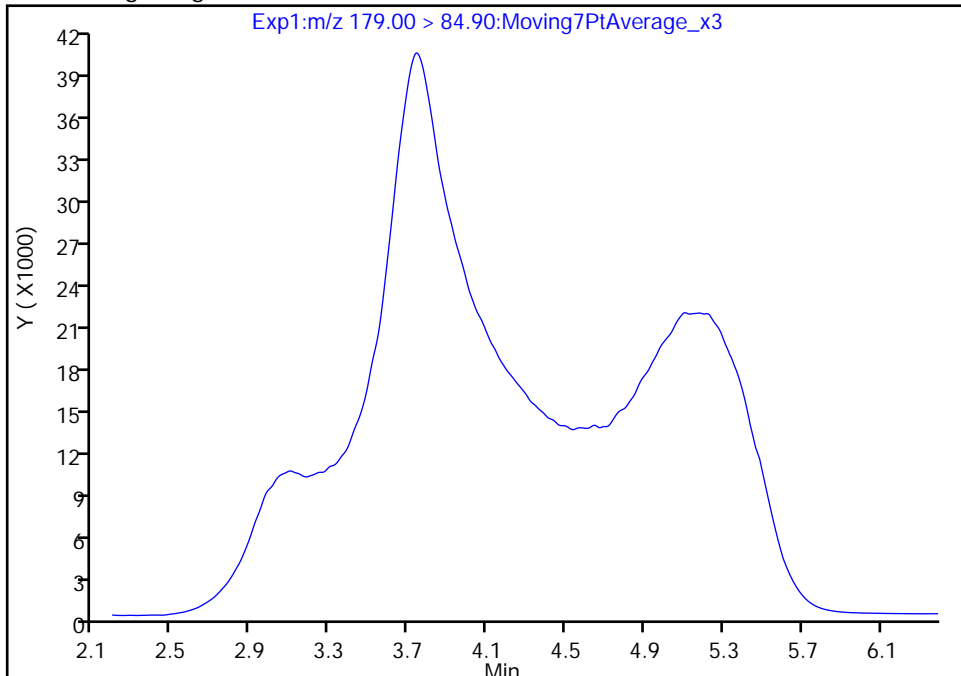
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_013.d  
Injection Date: 08-Mar-2021 17:42:24 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

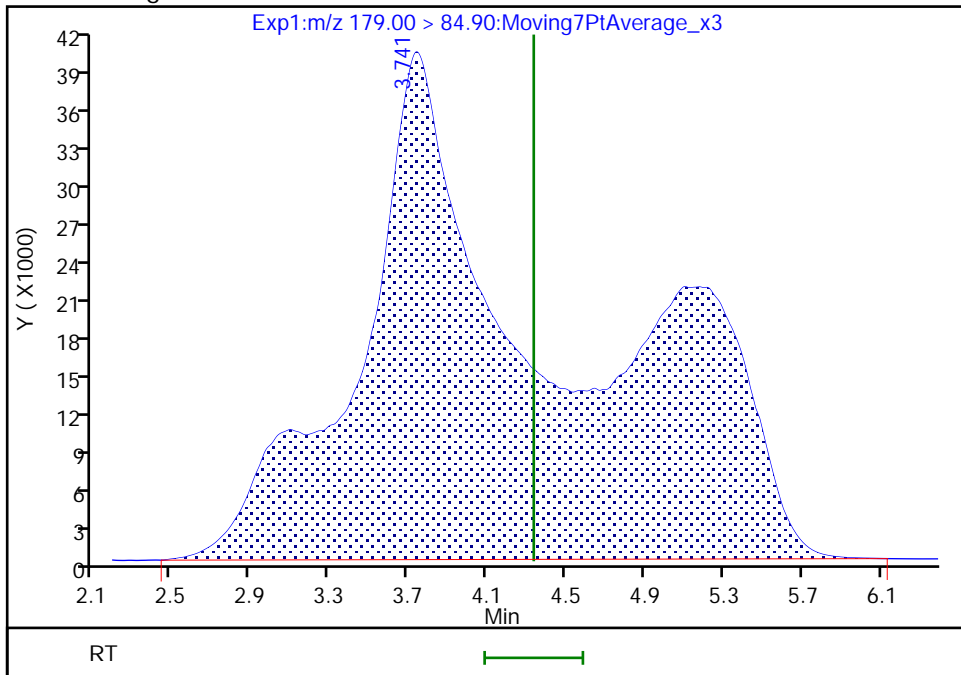
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 3.74  
Area: 2898414  
Amount: 0.258186  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:37:03  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

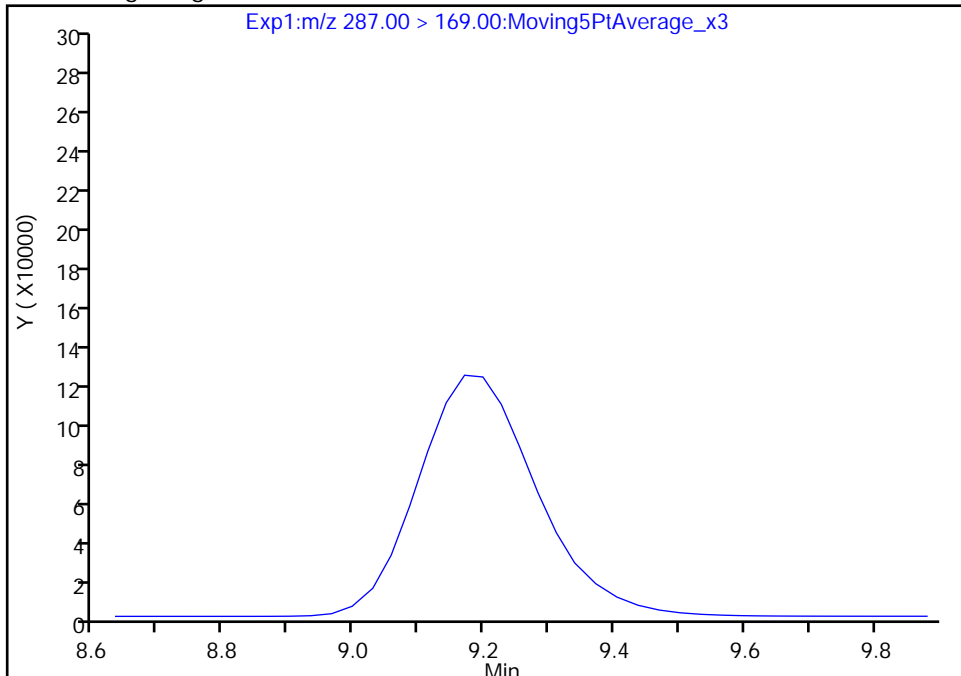
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_013.d  
Injection Date: 08-Mar-2021 17:42:24 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

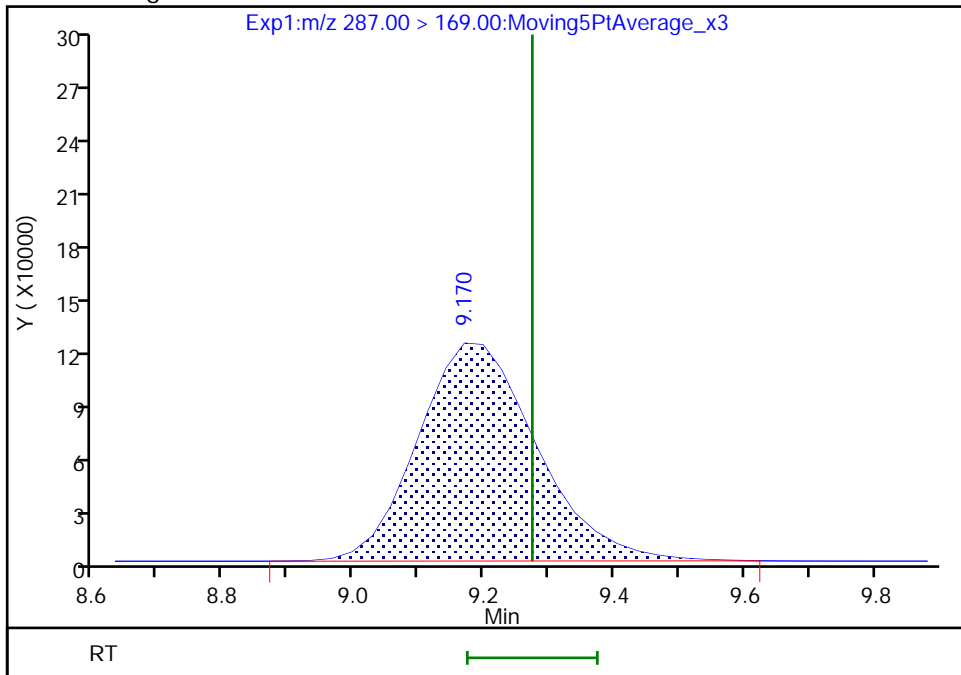
Not Detected  
Expected RT: 9.27

Processing Integration Results



Manual Integration Results

RT: 9.17  
Area: 1528632  
Amount: 0.241689  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:36:59  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

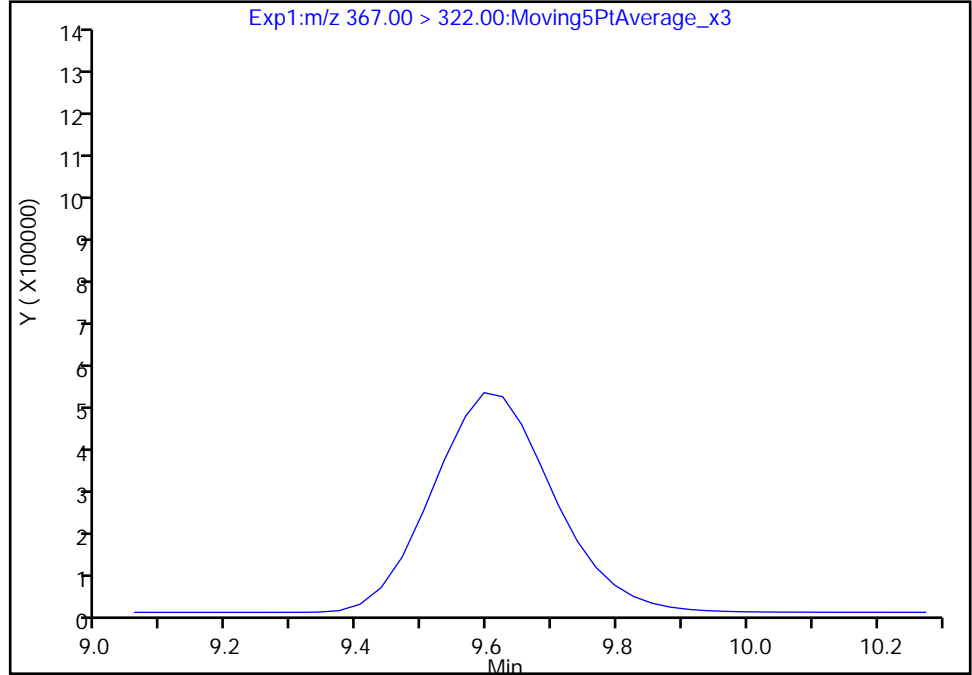
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Injection Date: 08-Mar-2021 17:42:24 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 13 Worklist Smp#: 12  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

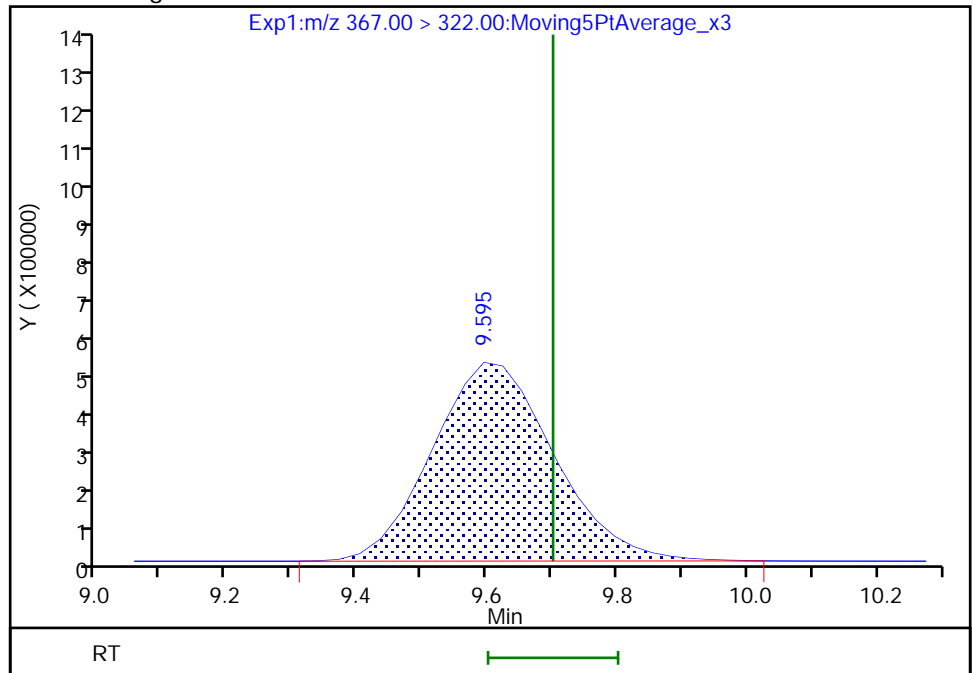
Not Detected  
Expected RT: 9.70

Processing Integration Results



Manual Integration Results

RT: 9.60  
Area: 6454524  
Amount: 0.237903  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:36:55  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_015.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 08-Mar-2021 18:17:46 ALS Bottle#: 15 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (44)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:18 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 07:05:02

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.275	4.337	-0.062		5941376	0.5292		106	480	M
2 R-EVE										
405.00 > 217.00	6.450	6.591	-0.141		3103516	0.5247		105	43352	
3 R-PSDA										
440.90 > 241.00	6.510	6.639	-0.129		1469973	0.5485		110	35287	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.569	6.710	-0.141		5322799	0.5271		105	67508	
23 PMPA										
229.00 > 185.00	6.759	6.876	-0.117		8495332	0.4939		98.8	10359	
5 NVHOS										
297.00 > 135.00	7.138	7.260	-0.122		2922032	0.5514		110	49328	
6 PFO2HxA										
245.00 > 85.00	7.710	7.862	-0.152		6477422	0.5146		103	61053	
22 PEPA										
278.90 > 234.90	8.300	8.431	-0.131		2569017	0.4990		99.8	10734	
7 PES										
314.90 > 135.00	8.590	8.715	-0.125		9862675	0.5555		111	146103	
8 PFECA B										
295.00 > 201.00	8.800	8.925	-0.125		4470095	0.5198		104	67717	
9 PFO3OA										
310.90 > 85.00	9.049	9.190	-0.142		1677476	0.4946		98.9	33220	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.161	9.274	-0.113		1464074	0.2315		92.6	39756	M
11 HPFO-DA										
285.00 > 169.00	9.161	9.302	-0.141	1.000	3153200	0.5224		104	51172	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.526	9.644	-0.118		23581631	0.4660		93.2	120347	
13 Hydro-EVE Acid										
427.00 > 282.90	9.587	9.701	-0.114		32762348	0.5023		100	100986	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.587	9.701	-0.114		5429526	0.2001		80.0	70383	M
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.587	9.701	-0.114	1.000	12220864	0.5123	Target=0.00	102	36819	
363.00 > 169.00	9.587	9.701	-0.114	1.000	3356614		3.64(0.00-0.00)	102	43627	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.730	-0.143		11903253	0.5047		101	111762	
17 PFECA G										
378.90 > 184.90	9.702	9.816	-0.114		2170730	0.4805		96.1	58992	
18 PFO4DA										
376.90 > 85.00	9.845	9.988	-0.143		2631093	0.5065		101	23897	
20 EVE Acid										
407.00 > 262.90	9.931	10.046	-0.115		18523081	0.4820		96.4	94236	
19 PS Acid										
443.00 > 146.90	9.931	10.046	-0.115		5386188	0.5187		104	63242	
21 TAF										
442.90 > 85.00	10.447	10.565	-0.118		2144361	0.4891		97.8	3504	

**QC Flag Legend**

Processing Flags

Review Flags

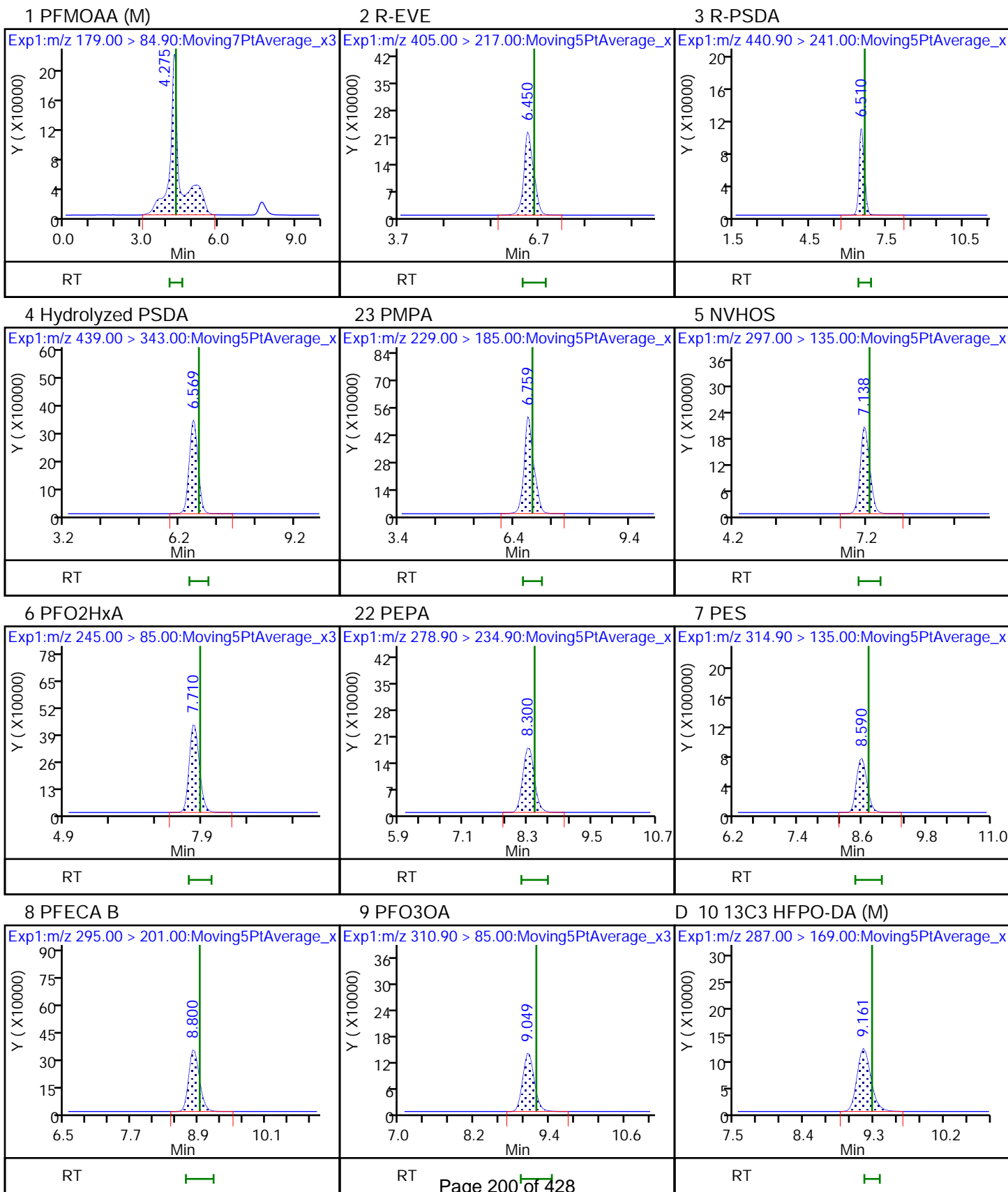
M - Manually Integrated

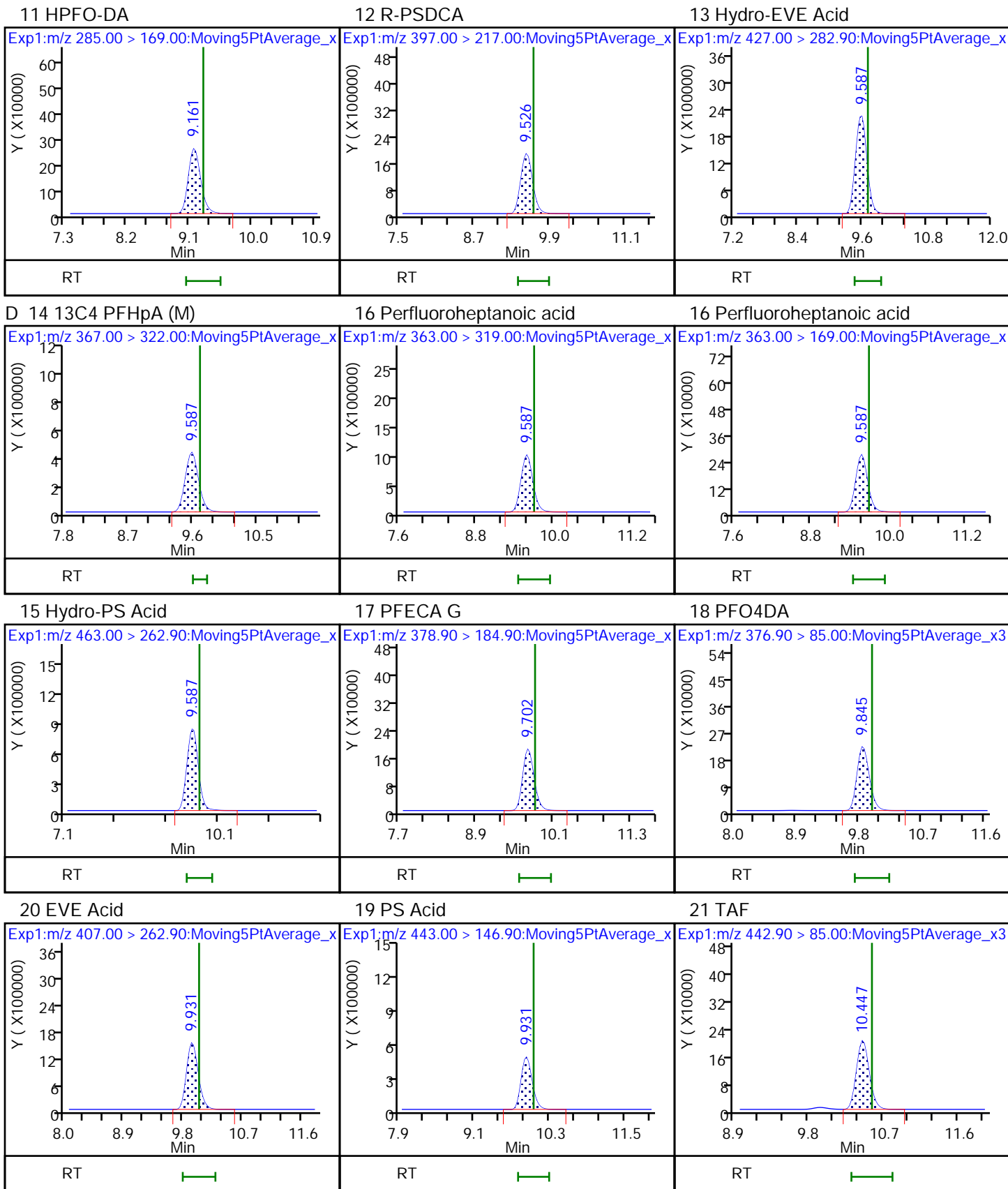
**Reagents:**

LCTB3\_LLSTD9\_00044

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

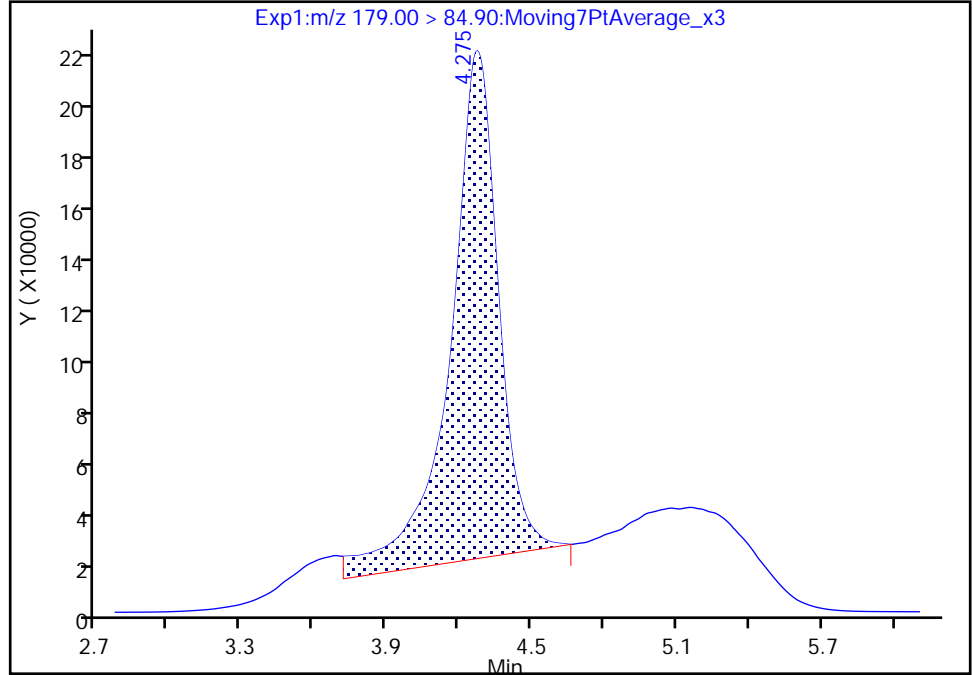
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_015.d  
Injection Date: 08-Mar-2021 18:17:46 Instrument ID: A12  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

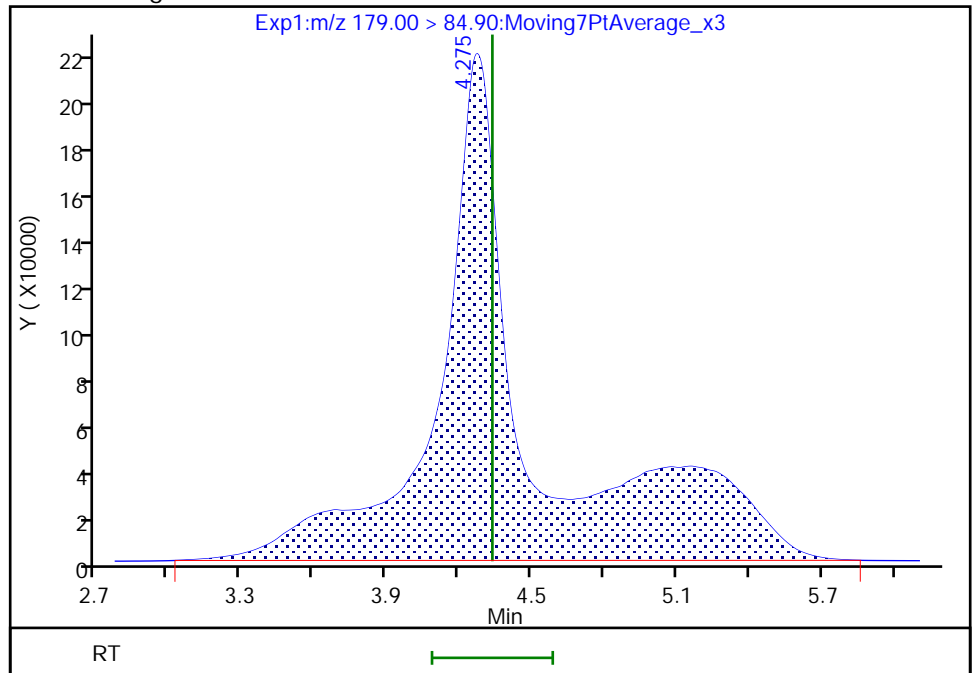
RT: 4.27  
Area: 2763367  
Amount: 0.263790  
Amount Units: ng/ml

Processing Integration Results



RT: 4.27  
Area: 5941376  
Amount: 0.529248  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:37:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

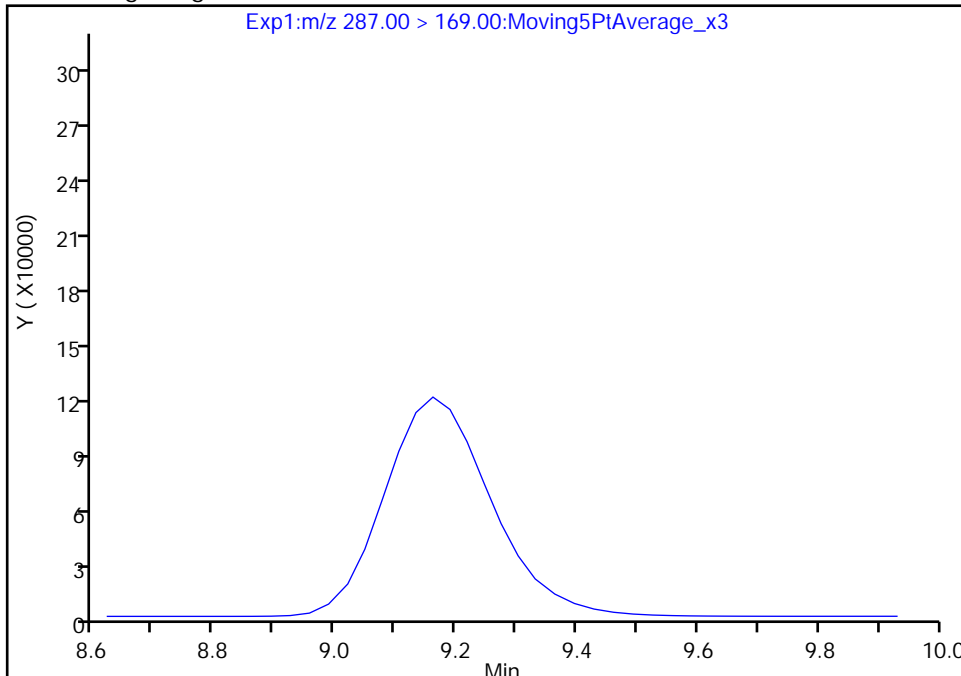
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_015.d  
Injection Date: 08-Mar-2021 18:17:46 Instrument ID: A12  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

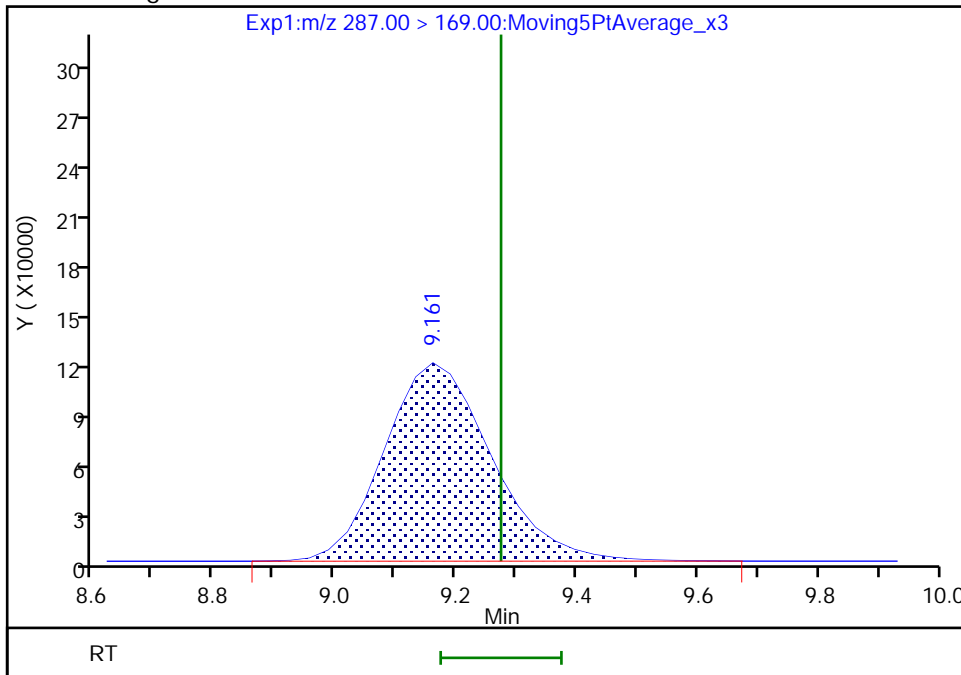
Not Detected  
Expected RT: 9.27

Processing Integration Results



Manual Integration Results

RT: 9.16  
Area: 1464074  
Amount: 0.231482  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:37:22  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

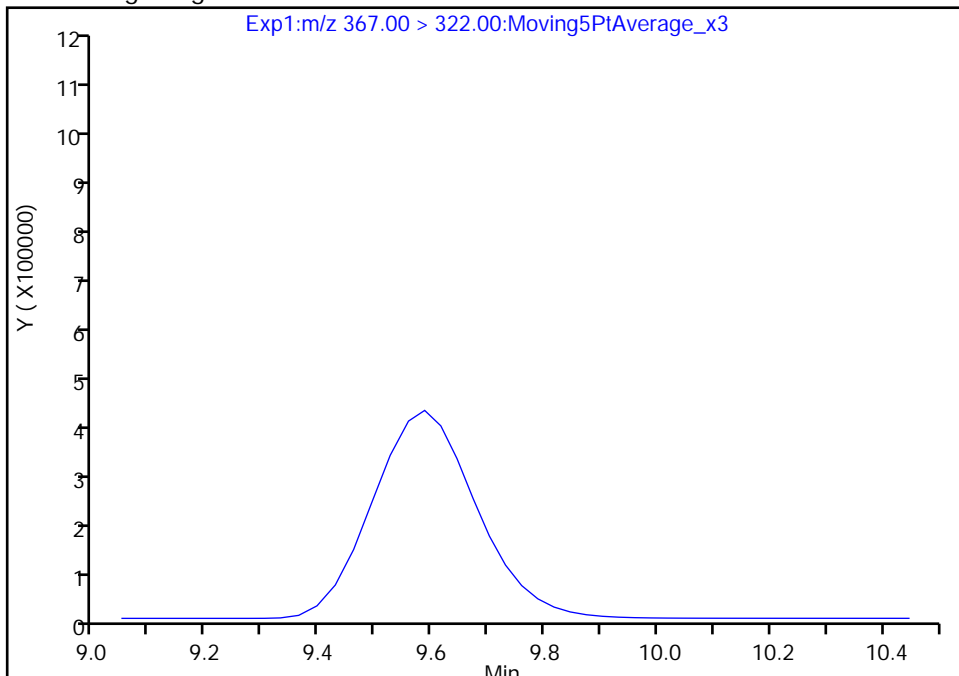
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_015.d  
Injection Date: 08-Mar-2021 18:17:46 Instrument ID: A12  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 15 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

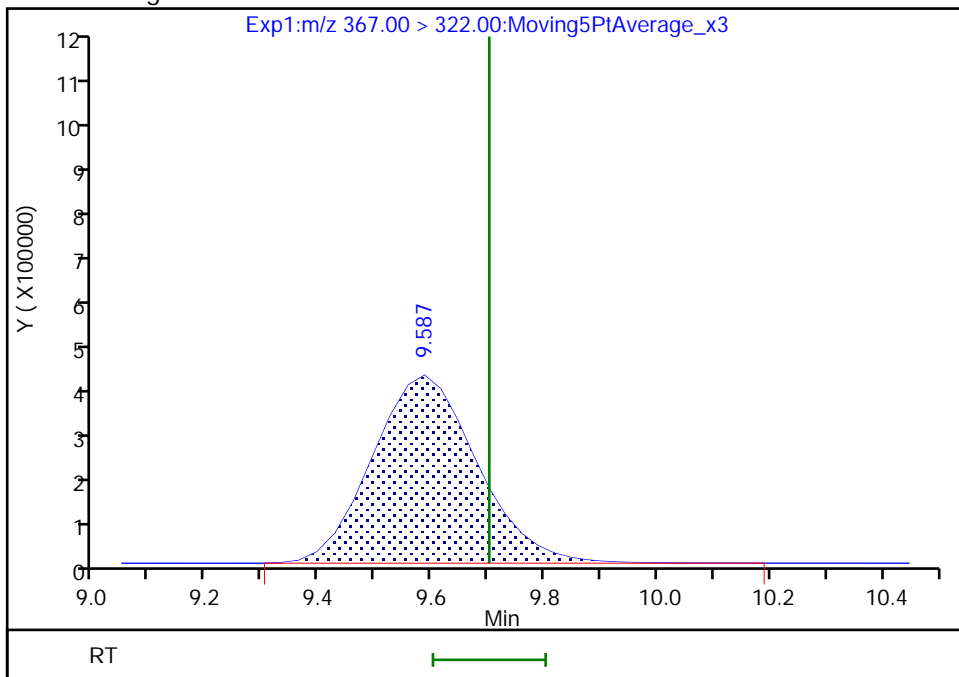
Not Detected  
Expected RT: 9.70

Processing Integration Results



Manual Integration Results

RT: 9.59  
Area: 5429526  
Amount: 0.200123  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:37:27

Audit Action: Manually Integrated

Audit Reason: Assign Peak

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 08-Mar-2021 18:35:31 ALS Bottle#: 16 Worklist Smp#: 15  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (43)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:05:19 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:38:11

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.154	4.337	-0.183		11624085	1.04		104	321	M
2 R-EVE										
405.00 > 217.00	6.426	6.591	-0.165		6171861	1.04		104	84164	
3 R-PSDA										
440.90 > 241.00	6.486	6.639	-0.153		3053744	1.14		114	52969	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.710	-0.164		10409341	1.03		103	124709	
23 PMPA										
229.00 > 185.00	6.731	6.876	-0.145		16784939	0.9758		97.6	29693	
5 NVHOS										
297.00 > 135.00	7.110	7.260	-0.150		5786419	1.09		109	83831	
6 PFO2HxA										
245.00 > 85.00	7.706	7.862	-0.156		12432784	0.9877		98.8	95995	
22 PEPA										
278.90 > 234.90	8.294	8.431	-0.137		5002510	0.9716		97.2	17149	
7 PES										
314.90 > 135.00	8.554	8.715	-0.161		19262846	1.09		109	280276	
8 PFECA B										
295.00 > 201.00	8.797	8.925	-0.128		8168324	0.9499		95.0	124176	
9 PFO3OA										
310.90 > 85.00	9.045	9.190	-0.145		3163918	0.9329		93.3	62480	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.158	9.274	-0.116		1470012	0.2324		93.0	29780	M
11 HPFO-DA										
285.00 > 169.00	9.158	9.302	-0.144	1.000	6199253	1.02		102	83847	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.644	-0.122		38566604	0.7622		76.2	161334	
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.701	-0.146		57587964	0.8830		88.3	161890	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.587	9.701	-0.114		4352755	0.1604		64.2	46854	M
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.587	9.701	-0.114	1.000	19409091	1.01	Target=0.00	101	38733	
363.00 > 169.00	9.587	9.701	-0.114	1.000	5745134		3.38(0.00-0.00)	101	54278	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.730	-0.143		22874579	0.9698		97.0	187925	
17 PFECA G										
378.90 > 184.90	9.702	9.816	-0.114		3634590	0.8046		80.5	73257	
18 PFO4DA										
376.90 > 85.00	9.845	9.988	-0.143		4348756	0.8372		83.7	27507	
20 EVE Acid										
407.00 > 262.90	9.931	10.046	-0.115		31234468	0.8127		81.3	110199	
19 PS Acid										
443.00 > 146.90	9.903	10.046	-0.143		9666123	0.9308		93.1	78298	
21 TAF										
442.90 > 85.00	10.448	10.565	-0.117		4073951	0.9291		92.9	4560	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD10\_00043

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Injection Date: 08-Mar-2021 18:35:31

Instrument ID: A12

Lims ID: IC STD 10

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 16

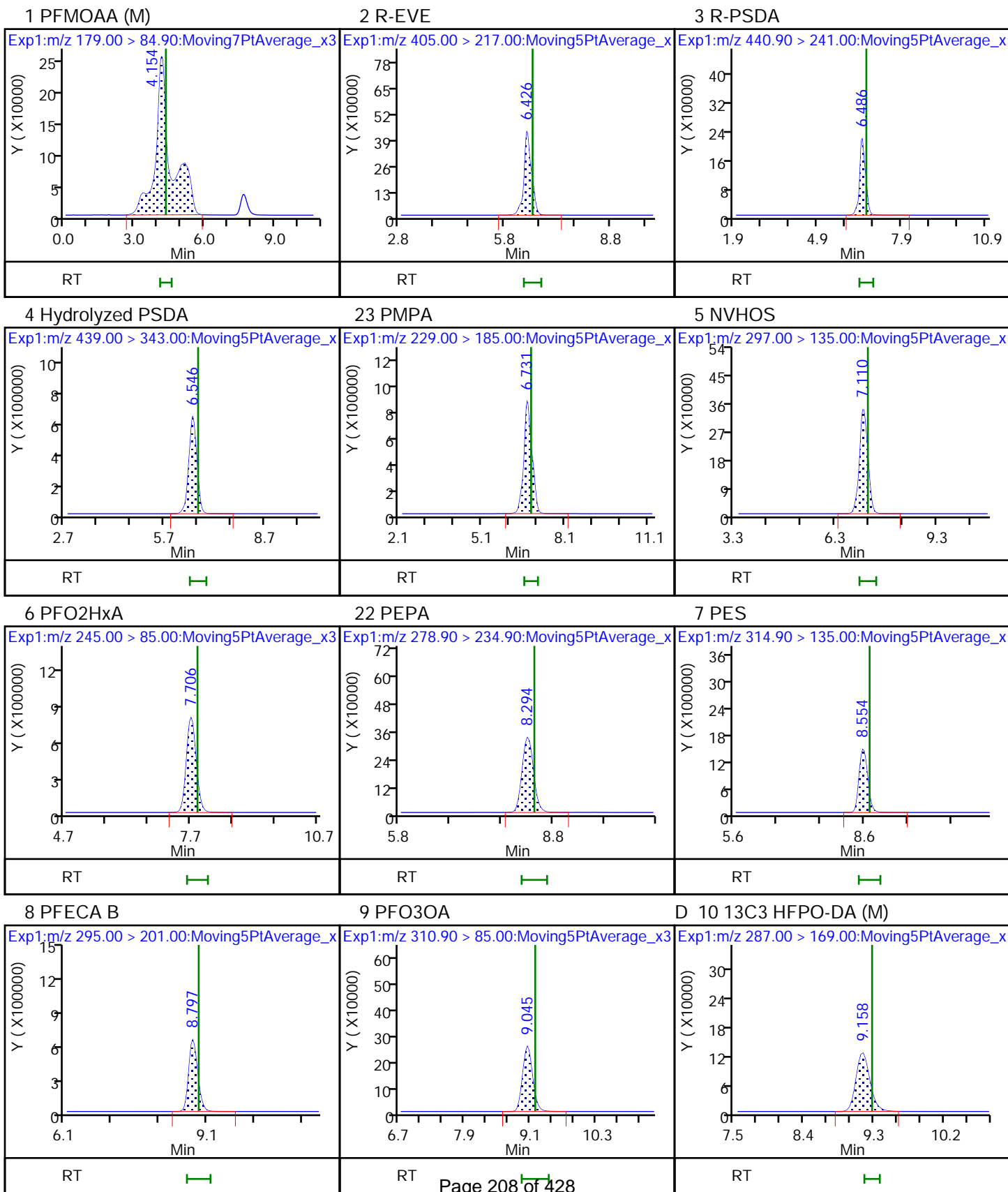
Worklist Smp#: 15

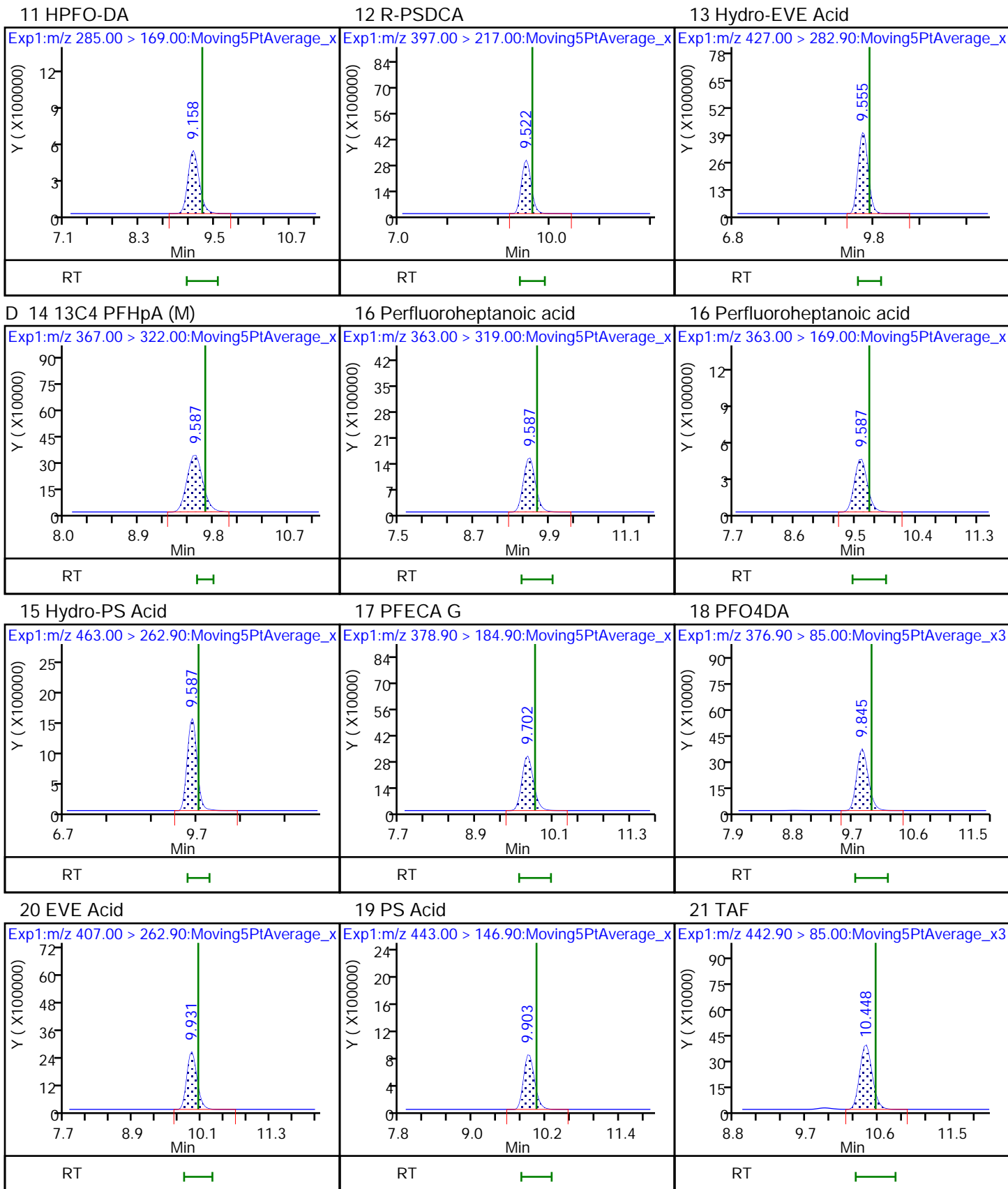
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

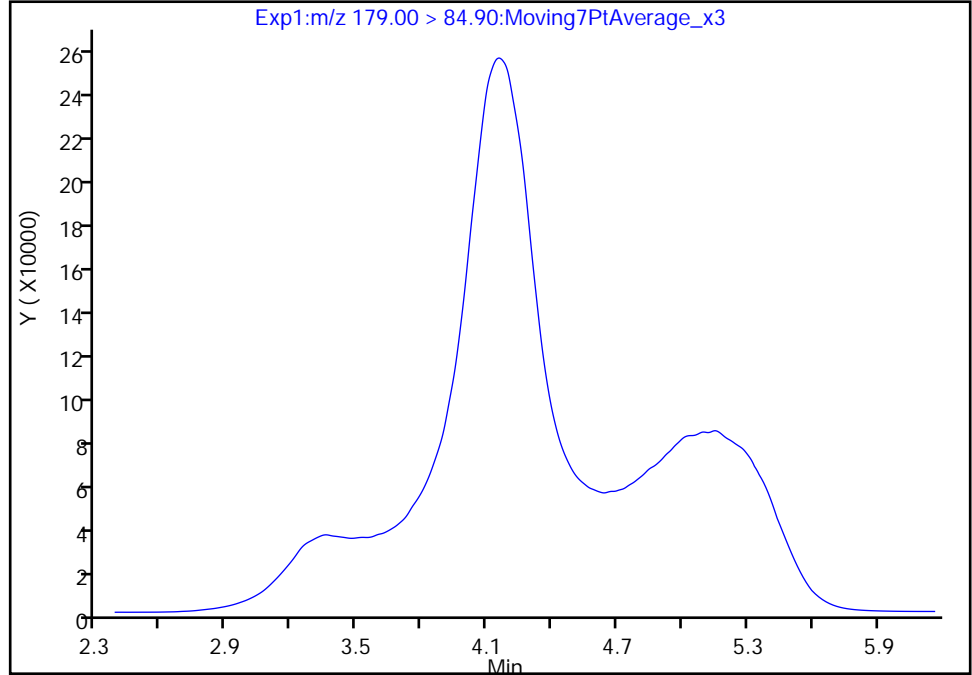
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
Injection Date: 08-Mar-2021 18:35:31 Instrument ID: A12  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

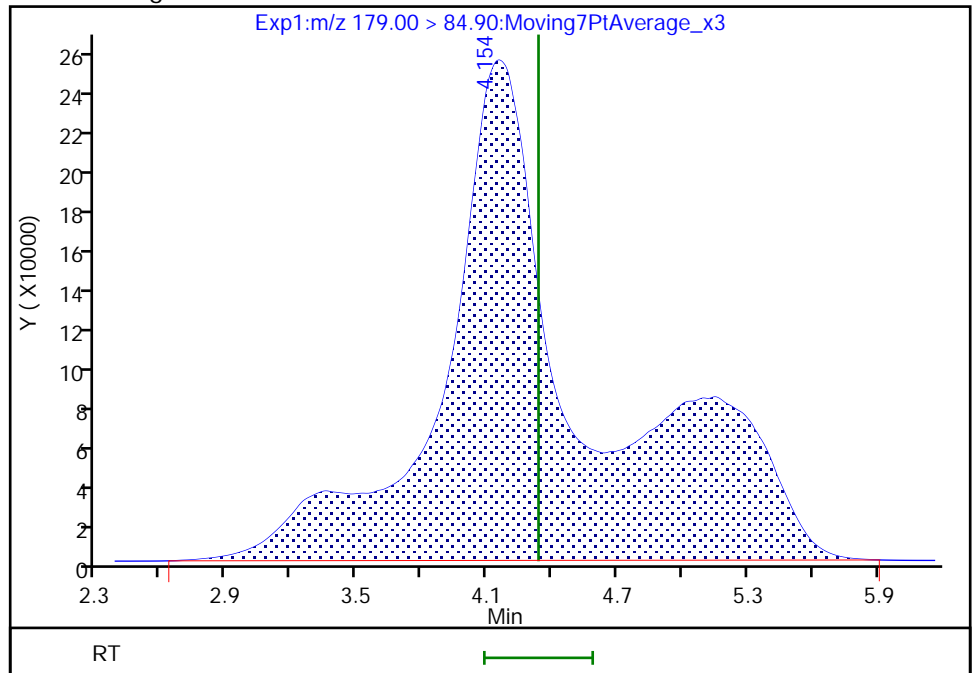
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 4.15  
Area: 11624085  
Amount: 1.035455  
Amount Units: ng/ml

Manual Integration Results



Reviewer: fariasa, 09-Mar-2021 06:38:01  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

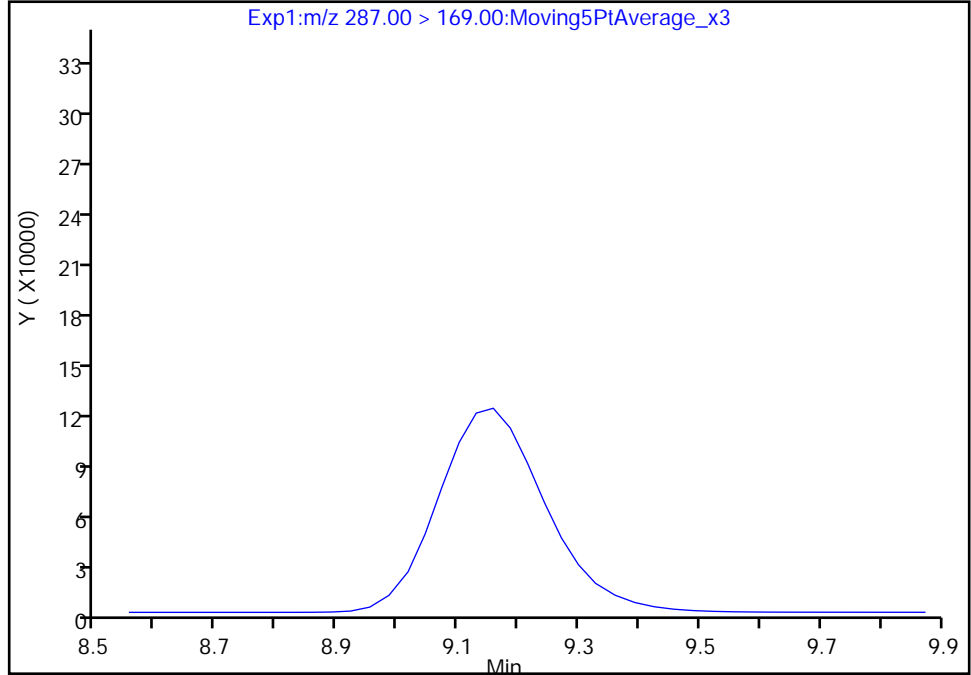
Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
Injection Date: 08-Mar-2021 18:35:31 Instrument ID: A12  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**

Signal: 1

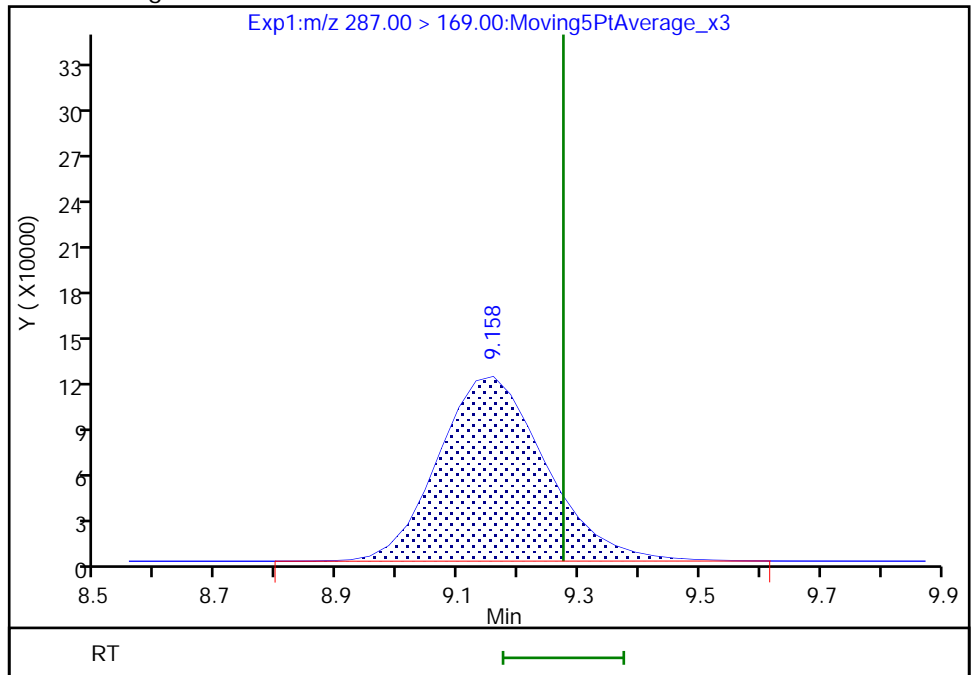
Not Detected  
Expected RT: 9.27

Processing Integration Results



Manual Integration Results

RT: 9.16  
Area: 1470012  
Amount: 0.232421  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:37:54  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

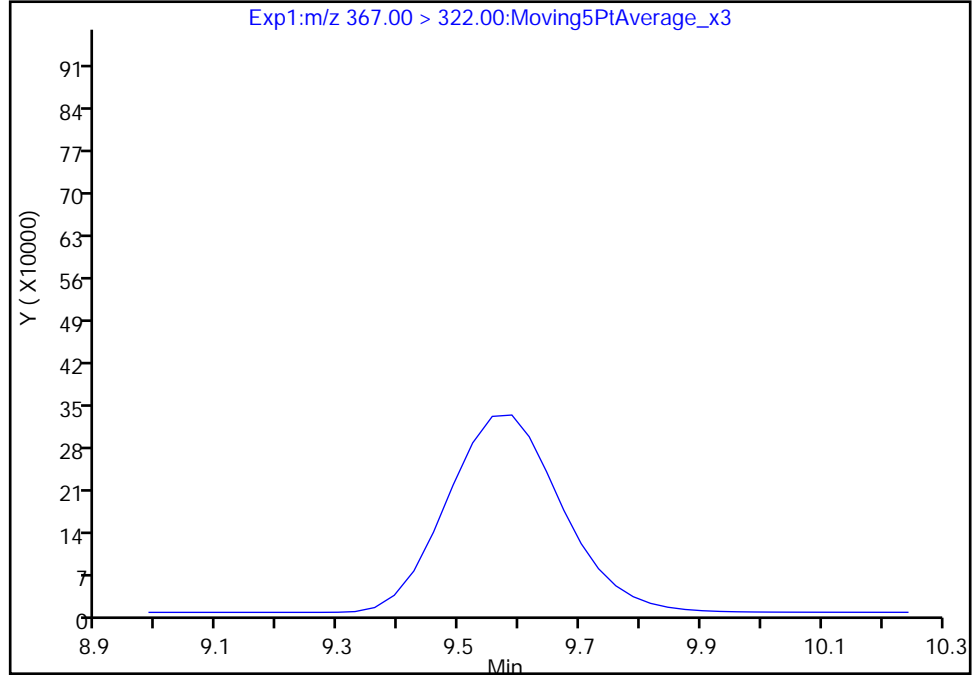
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Injection Date: 08-Mar-2021 18:35:31 Instrument ID: A12  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

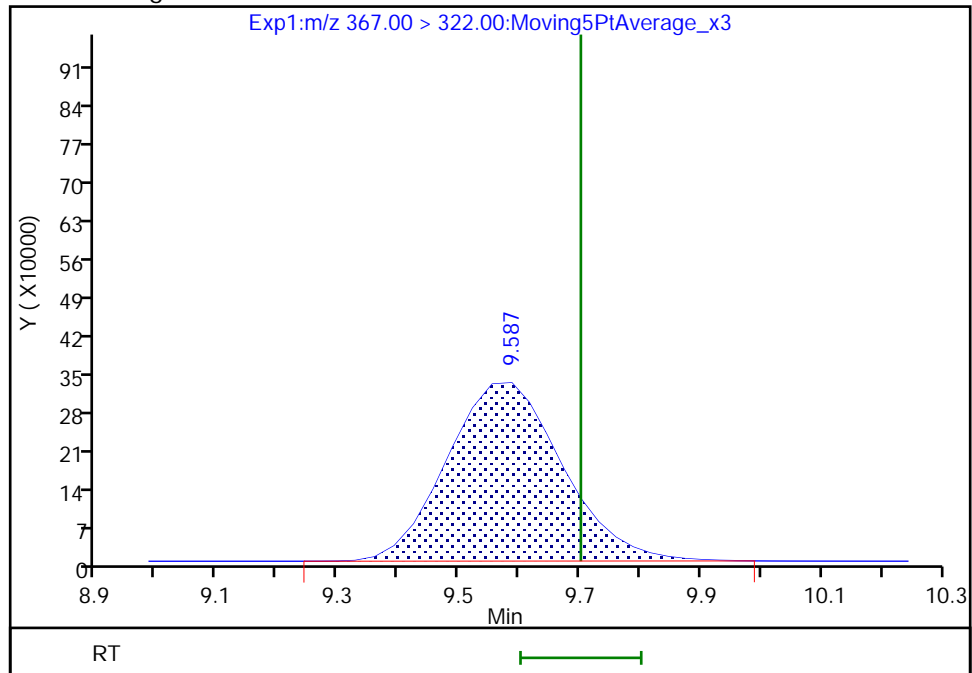
Not Detected  
Expected RT: 9.70

Processing Integration Results



Manual Integration Results

RT: 9.59  
Area: 4352755  
Amount: 0.160435  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:37:57  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 213 of 428

Calibration

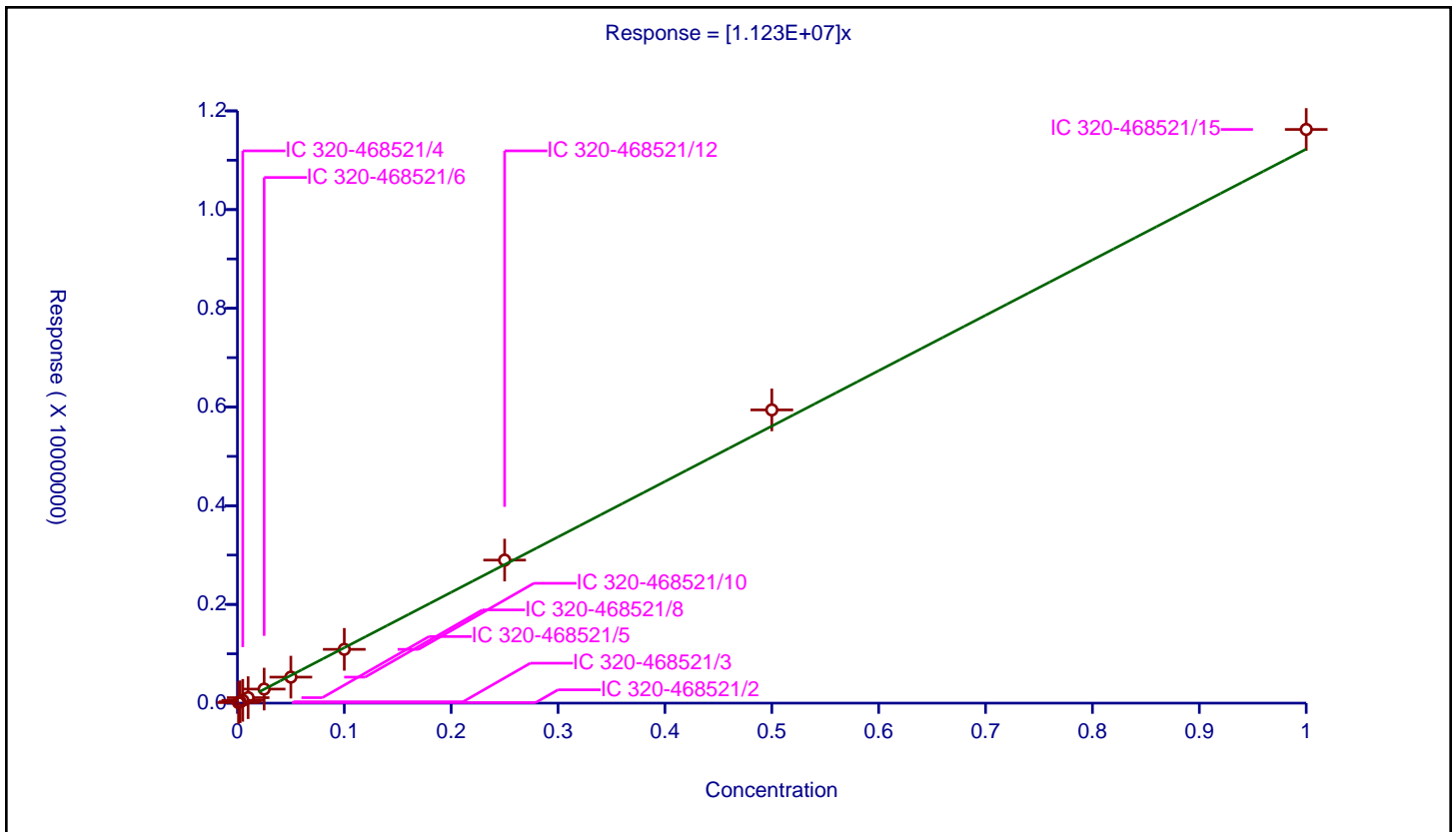
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.123E+07

Error Coefficients	
Standard Error:	175000
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.998

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	10977.0			10977000.0	Y
2	IC 320-468521/3	0.0025	27629.0			11051600.0	Y
3	IC 320-468521/4	0.005	56162.0			11232400.0	Y
4	IC 320-468521/5	0.01	110698.0			11069800.0	Y
5	IC 320-468521/6	0.025	284701.0			11388040.0	Y
6	IC 320-468521/8	0.05	527133.0			10542660.0	Y
7	IC 320-468521/10	0.1	1089869.0			10898690.0	Y
8	IC 320-468521/12	0.25	2898414.0			11593656.0	Y
9	IC 320-468521/14	0.5	5941376.0			11882752.0	Y
10	IC 320-468521/15	1.0	11624085.0			11624085.0	Y



**Calibration**

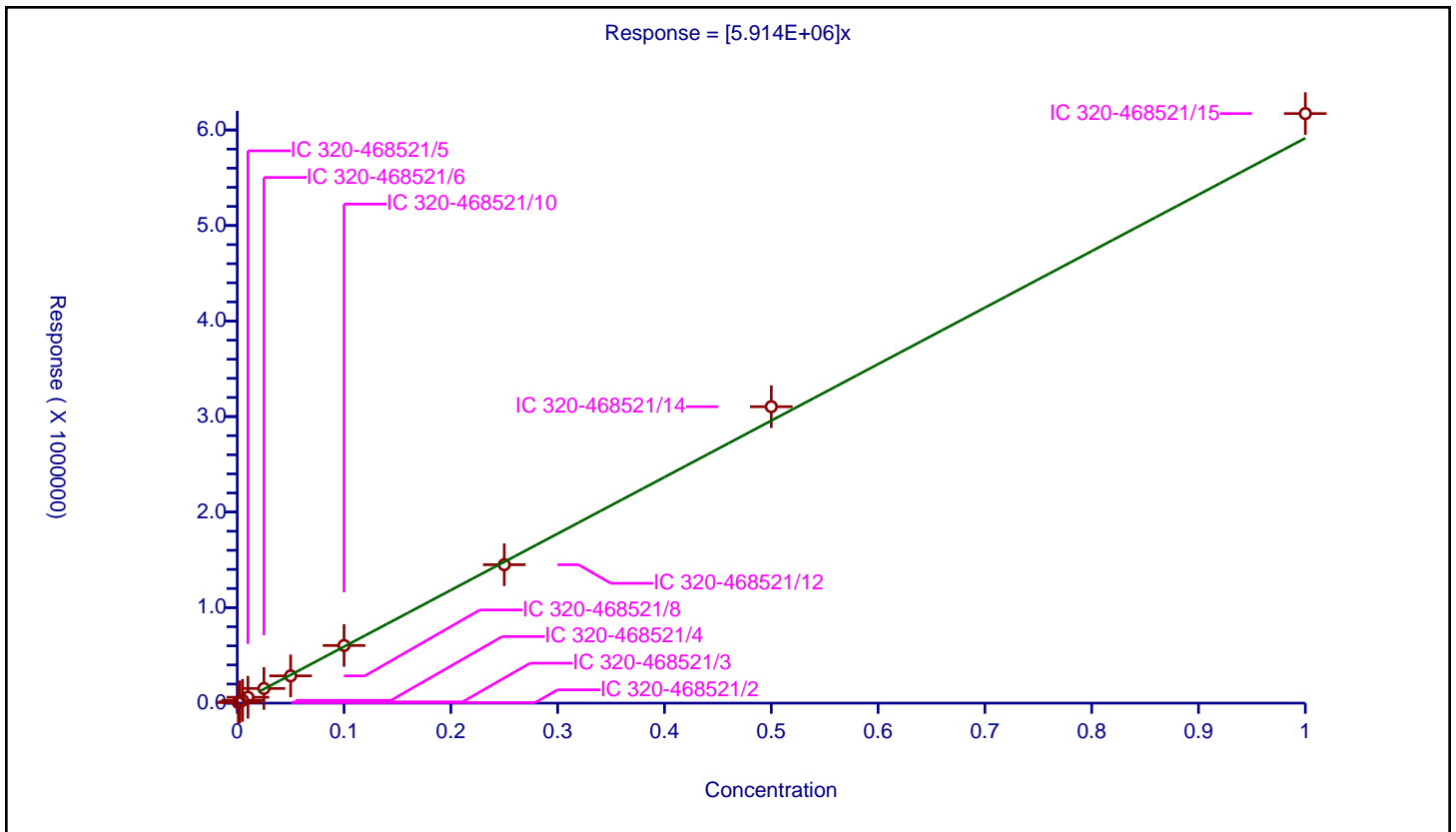
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.914E+06

Error Coefficients	
Standard Error:	99400
Relative Standard Error:	4.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	5648.0			5648000.0	Y
2	IC 320-468521/3	0.0025	13516.0			5406400.0	Y
3	IC 320-468521/4	0.005	29352.0			5870400.0	Y
4	IC 320-468521/5	0.01	61641.0			6164100.0	Y
5	IC 320-468521/6	0.025	153482.0			6139280.0	Y
6	IC 320-468521/8	0.05	285284.0			5705680.0	Y
7	IC 320-468521/10	0.1	603468.0			6034680.0	Y
8	IC 320-468521/12	0.25	1449150.0			5796600.0	Y
9	IC 320-468521/14	0.5	3103516.0			6207032.0	Y
10	IC 320-468521/15	1.0	6171861.0			6171861.0	Y



Calibration

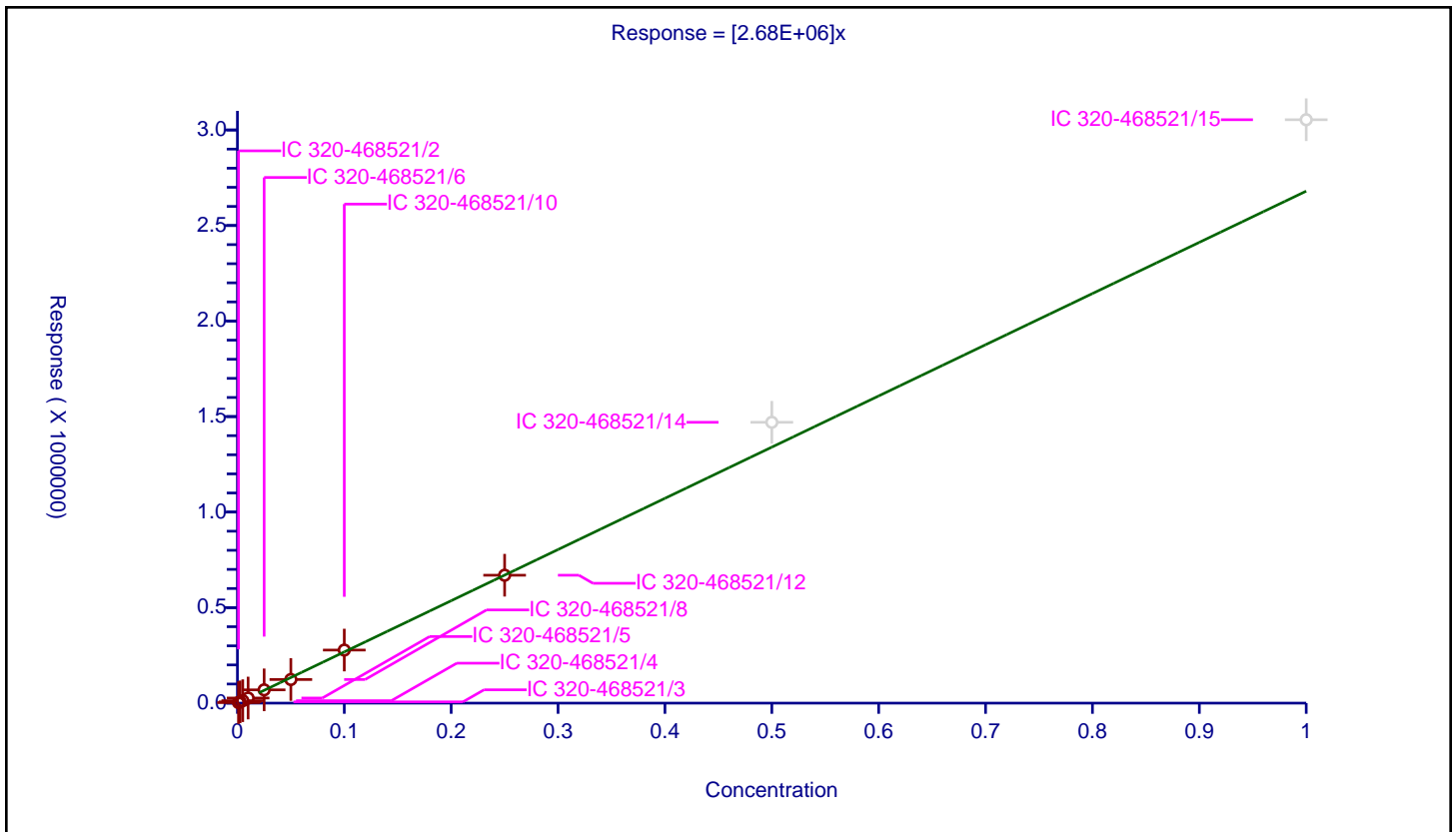
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.68E+06

Error Coefficients	
Standard Error:	5480
Relative Standard Error:	4.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	2852.0			2852000.0	Y
2	IC 320-468521/3	0.0025	6628.0			2651200.0	Y
3	IC 320-468521/4	0.005	12788.0			2557600.0	Y
4	IC 320-468521/5	0.01	26704.0			2670400.0	Y
5	IC 320-468521/6	0.025	69516.0			2780640.0	Y
6	IC 320-468521/8	0.05	123602.0			2472040.0	Y
7	IC 320-468521/10	0.1	277743.0			2777430.0	Y
8	IC 320-468521/12	0.25	669453.0			2677812.0	Y
9	IC 320-468521/14	0.5	1469973.0			2939946.0	N
10	IC 320-468521/15	1.0	3053744.0			3053744.0	N



**Calibration**

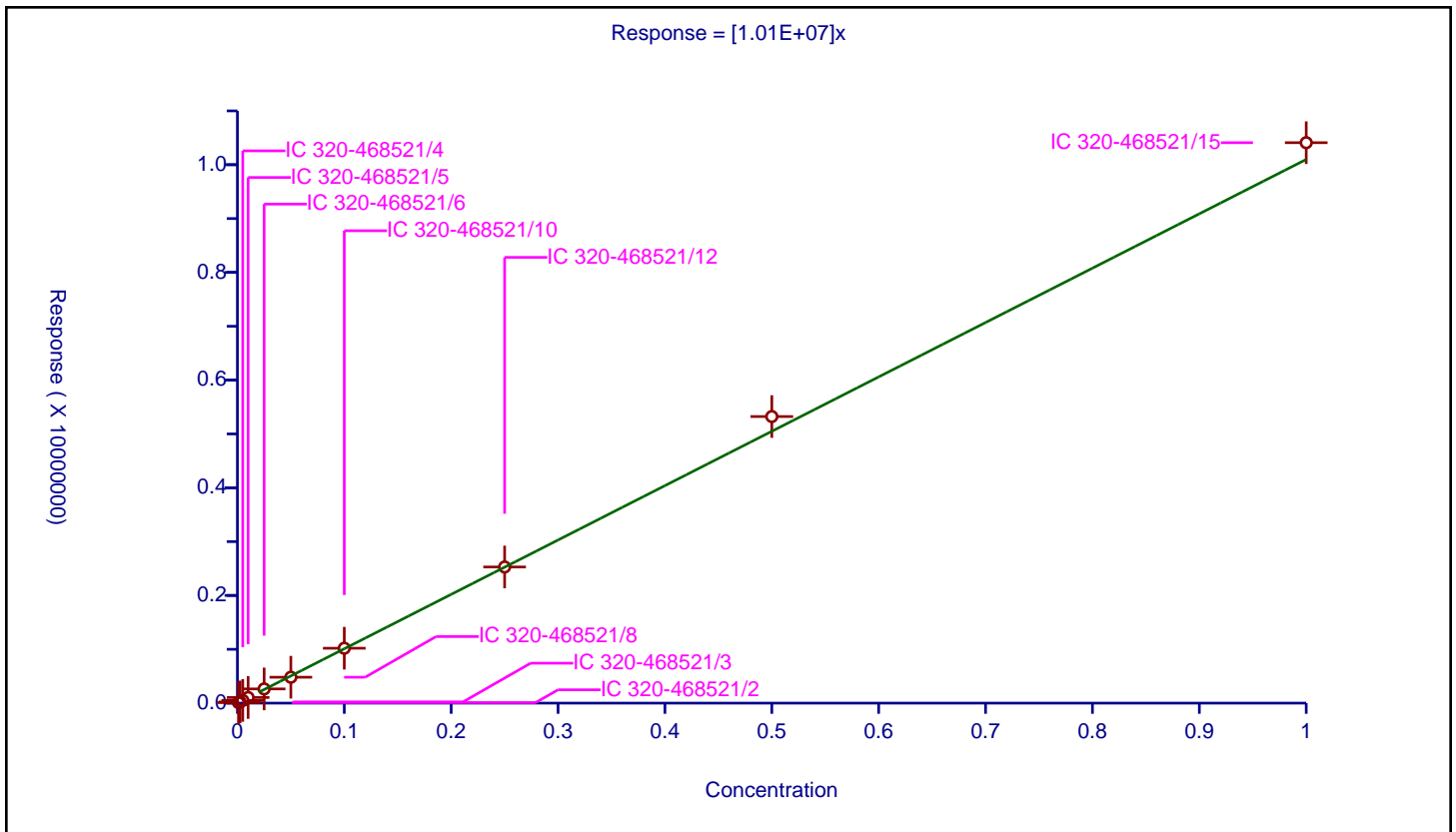
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.01E+07

Error Coefficients	
Standard Error:	138000
Relative Standard Error:	5.1
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	9895.0			9895000.0	Y
2	IC 320-468521/3	0.0025	22281.0			8912400.0	Y
3	IC 320-468521/4	0.005	50803.0			10160600.0	Y
4	IC 320-468521/5	0.01	104805.0			10480500.0	Y
5	IC 320-468521/6	0.025	263703.0			10548120.0	Y
6	IC 320-468521/8	0.05	481065.0			9621300.0	Y
7	IC 320-468521/10	0.1	1019758.0			10197580.0	Y
8	IC 320-468521/12	0.25	2528385.0			10113540.0	Y
9	IC 320-468521/14	0.5	5322799.0			10645598.0	Y
10	IC 320-468521/15	1.0	10409341.0			10409341.0	Y



Calibration

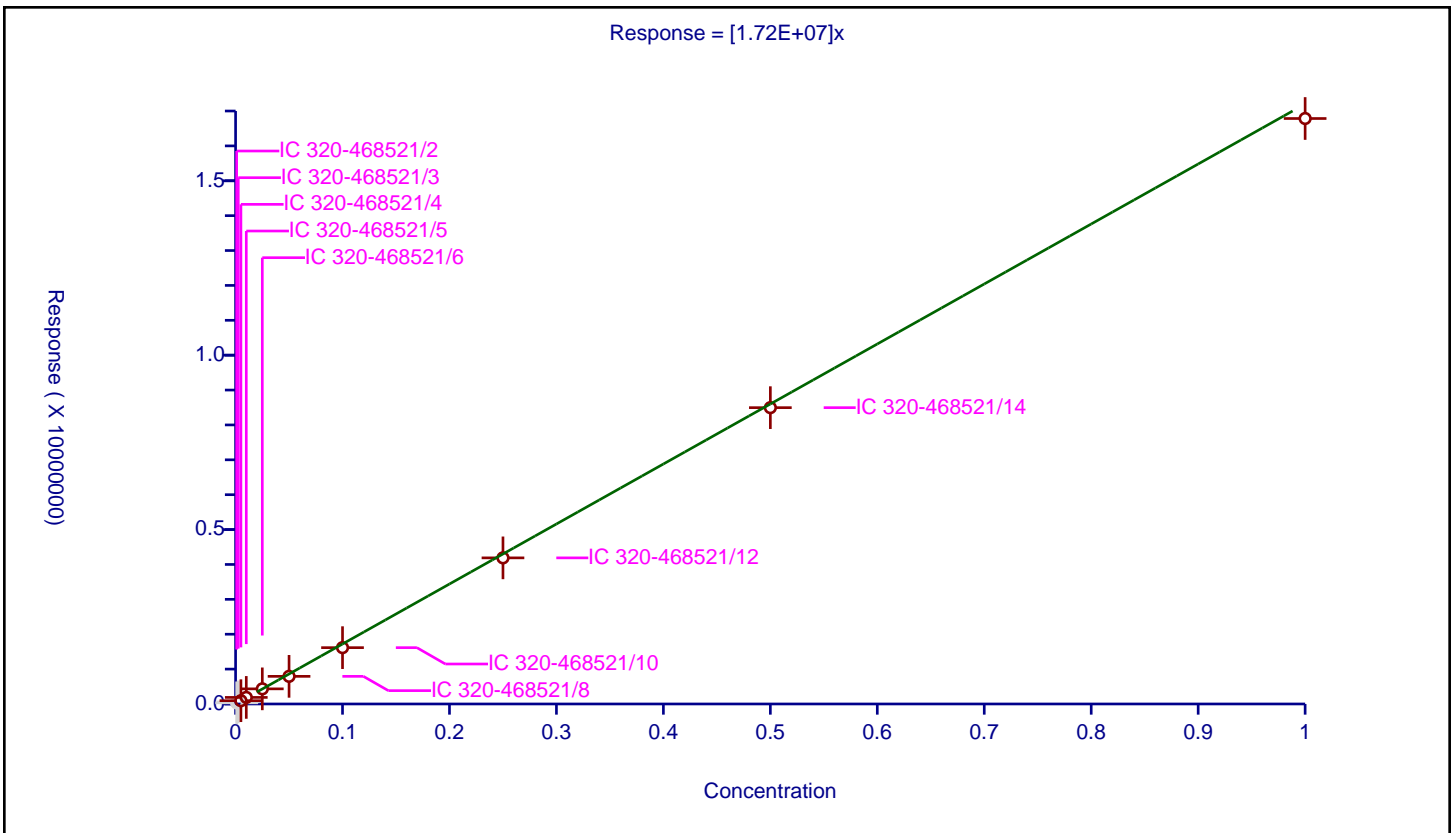
/ PMPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.72E+07

Error Coefficients	
Standard Error:	174000
Relative Standard Error:	6.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	33403.0			33403000.0	N
2	IC 320-468521/3	0.0025	58246.0			23298400.0	N
3	IC 320-468521/4	0.005	94290.0			18858000.0	Y
4	IC 320-468521/5	0.01	188799.0			18879900.0	Y
5	IC 320-468521/6	0.025	433517.0			17340680.0	Y
6	IC 320-468521/8	0.05	792575.0			15851500.0	Y
7	IC 320-468521/10	0.1	1614967.0			16149670.0	Y
8	IC 320-468521/12	0.25	4188896.0			16755584.0	Y
9	IC 320-468521/14	0.5	8495332.0			16990664.0	Y
10	IC 320-468521/15	1.0	16784939.0			16784939.0	Y





Calibration

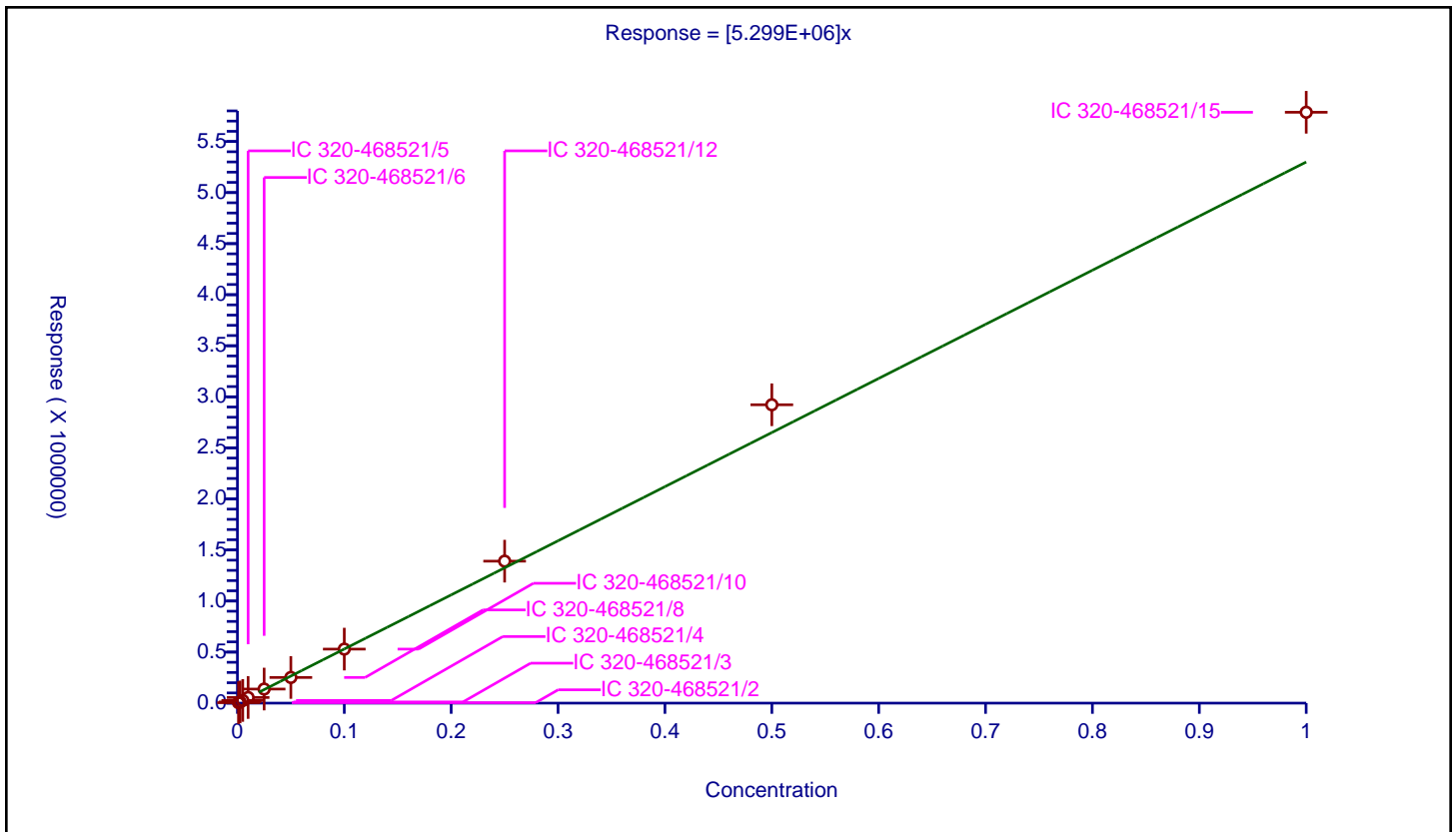
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.299E+06

Error Coefficients	
Standard Error:	187000
Relative Standard Error:	8.4
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	4514.0			4514000.0	Y
2	IC 320-468521/3	0.0025	11680.0			4672000.0	Y
3	IC 320-468521/4	0.005	26256.0			5251200.0	Y
4	IC 320-468521/5	0.01	55286.0			5528600.0	Y
5	IC 320-468521/6	0.025	137975.0			5519000.0	Y
6	IC 320-468521/8	0.05	251340.0			5026800.0	Y
7	IC 320-468521/10	0.1	529075.0			5290750.0	Y
8	IC 320-468521/12	0.25	1390463.0			5561852.0	Y
9	IC 320-468521/14	0.5	2922032.0			5844064.0	Y
10	IC 320-468521/15	1.0	5786419.0			5786419.0	Y



Calibration

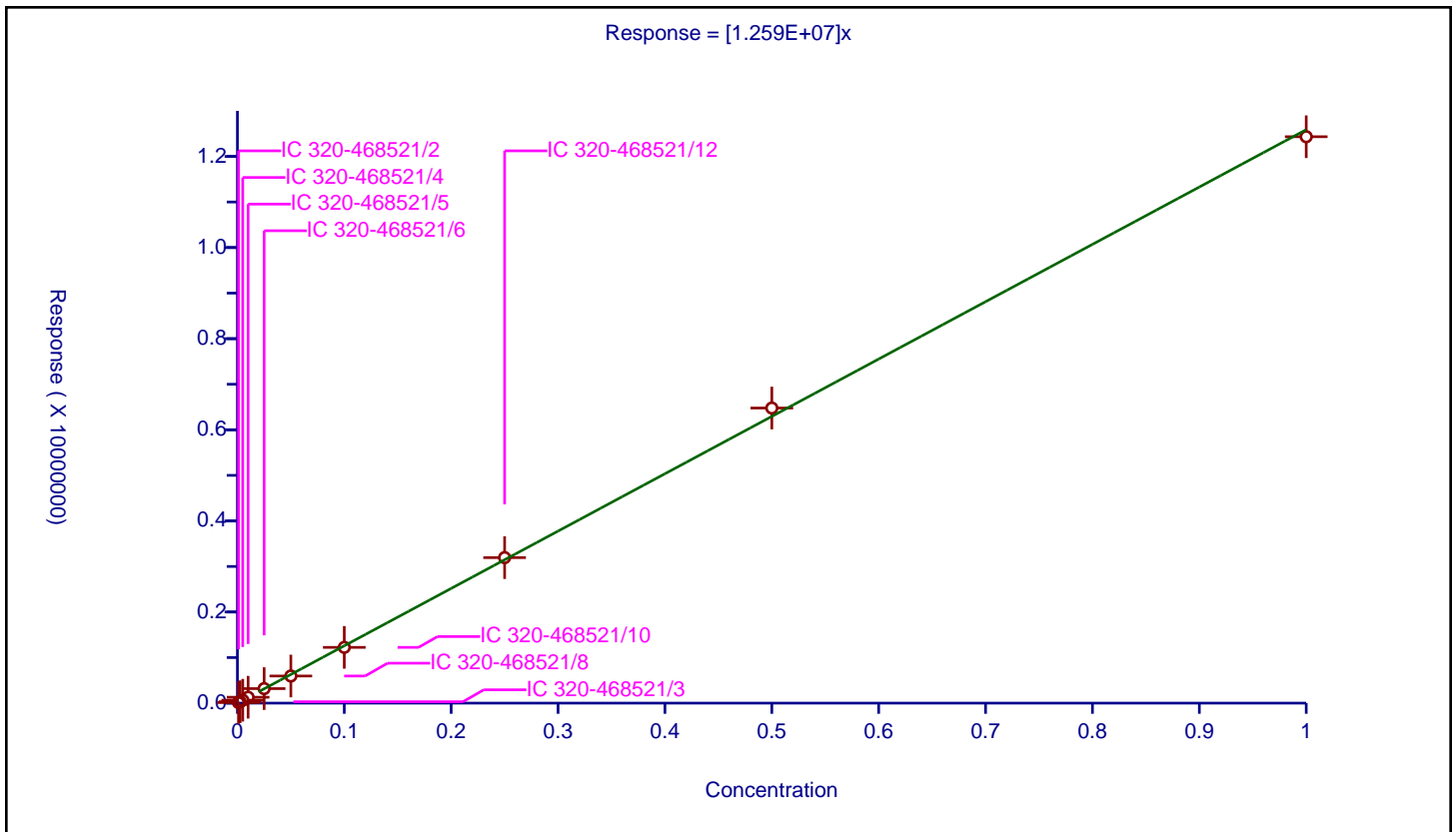
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.259E+07

Error Coefficients	
Standard Error:	83200
Relative Standard Error:	2.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	12773.0			12773000.0	Y
2	IC 320-468521/3	0.0025	30806.0			12322400.0	Y
3	IC 320-468521/4	0.005	63912.0			12782400.0	Y
4	IC 320-468521/5	0.01	129242.0			12924200.0	Y
5	IC 320-468521/6	0.025	319132.0			12765280.0	Y
6	IC 320-468521/8	0.05	595321.0			11906420.0	Y
7	IC 320-468521/10	0.1	1223647.0			12236470.0	Y
8	IC 320-468521/12	0.25	3194272.0			12777088.0	Y
9	IC 320-468521/14	0.5	6477422.0			12954844.0	Y
10	IC 320-468521/15	1.0	12432784.0			12432784.0	Y



**Calibration**

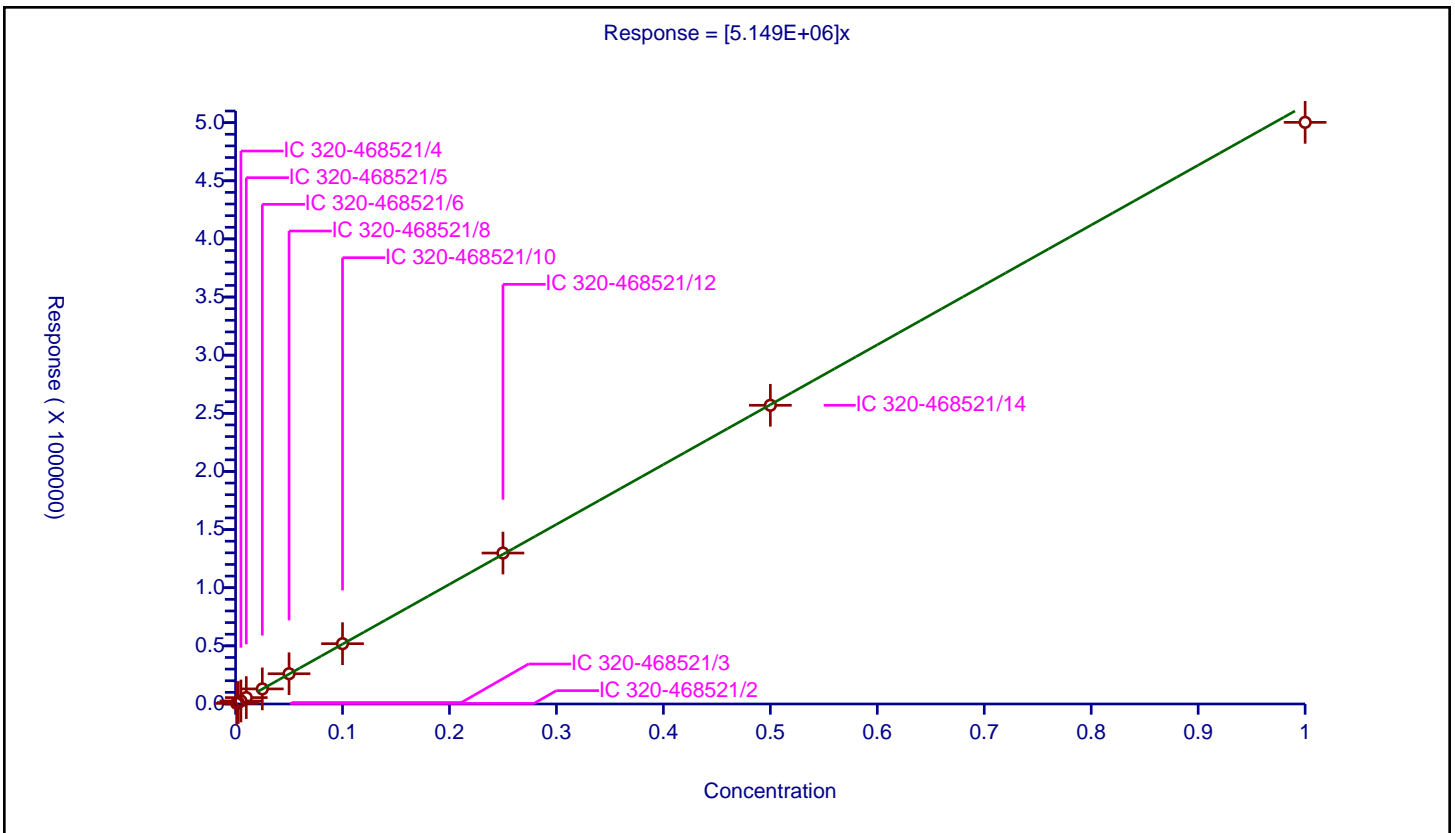
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.149E+06

Error Coefficients	
Standard Error:	49000
Relative Standard Error:	3.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.999

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	4872.0			4872000.0	Y
2	IC 320-468521/3	0.0025	12502.0			5000800.0	Y
3	IC 320-468521/4	0.005	26099.0			5219800.0	Y
4	IC 320-468521/5	0.01	54842.0			5484200.0	Y
5	IC 320-468521/6	0.025	129608.0			5184320.0	Y
6	IC 320-468521/8	0.05	260244.0			5204880.0	Y
7	IC 320-468521/10	0.1	518748.0			5187480.0	Y
8	IC 320-468521/12	0.25	1298350.0			5193400.0	Y
9	IC 320-468521/14	0.5	2569017.0			5138034.0	Y
10	IC 320-468521/15	1.0	5002510.0			5002510.0	Y



Calibration

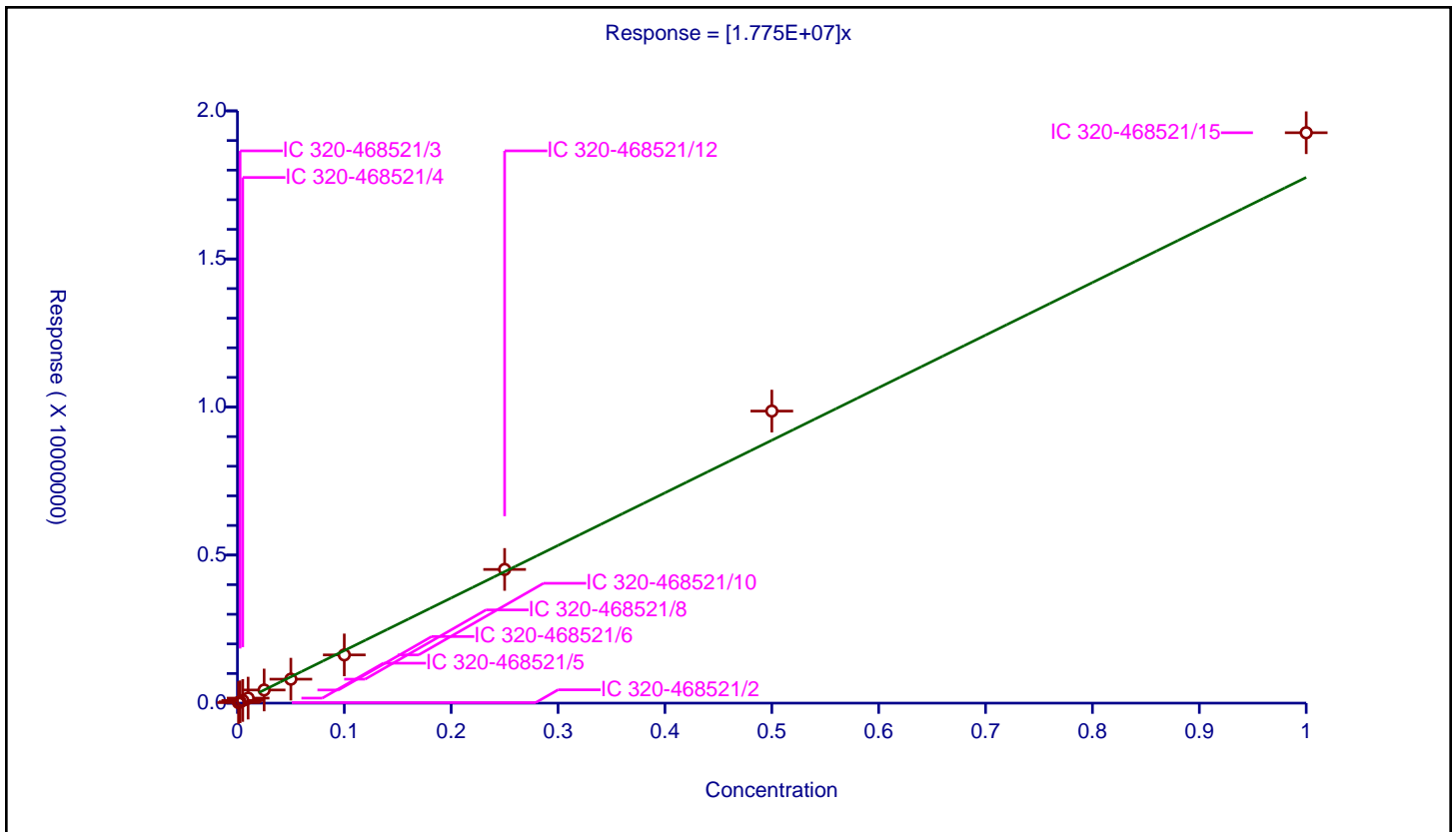
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.775E+07

Error Coefficients	
Standard Error:	604000
Relative Standard Error:	6.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	17446.0			17446000.0	Y
2	IC 320-468521/3	0.0025	45152.0			18060800.0	Y
3	IC 320-468521/4	0.005	89139.0			17827800.0	Y
4	IC 320-468521/5	0.01	169587.0			16958700.0	Y
5	IC 320-468521/6	0.025	443453.0			17738120.0	Y
6	IC 320-468521/8	0.05	808659.0			16173180.0	Y
7	IC 320-468521/10	0.1	1628577.0			16285770.0	Y
8	IC 320-468521/12	0.25	4514703.0			18058812.0	Y
9	IC 320-468521/14	0.5	9862675.0			19725350.0	Y
10	IC 320-468521/15	1.0	19262846.0			19262846.0	Y



Calibration

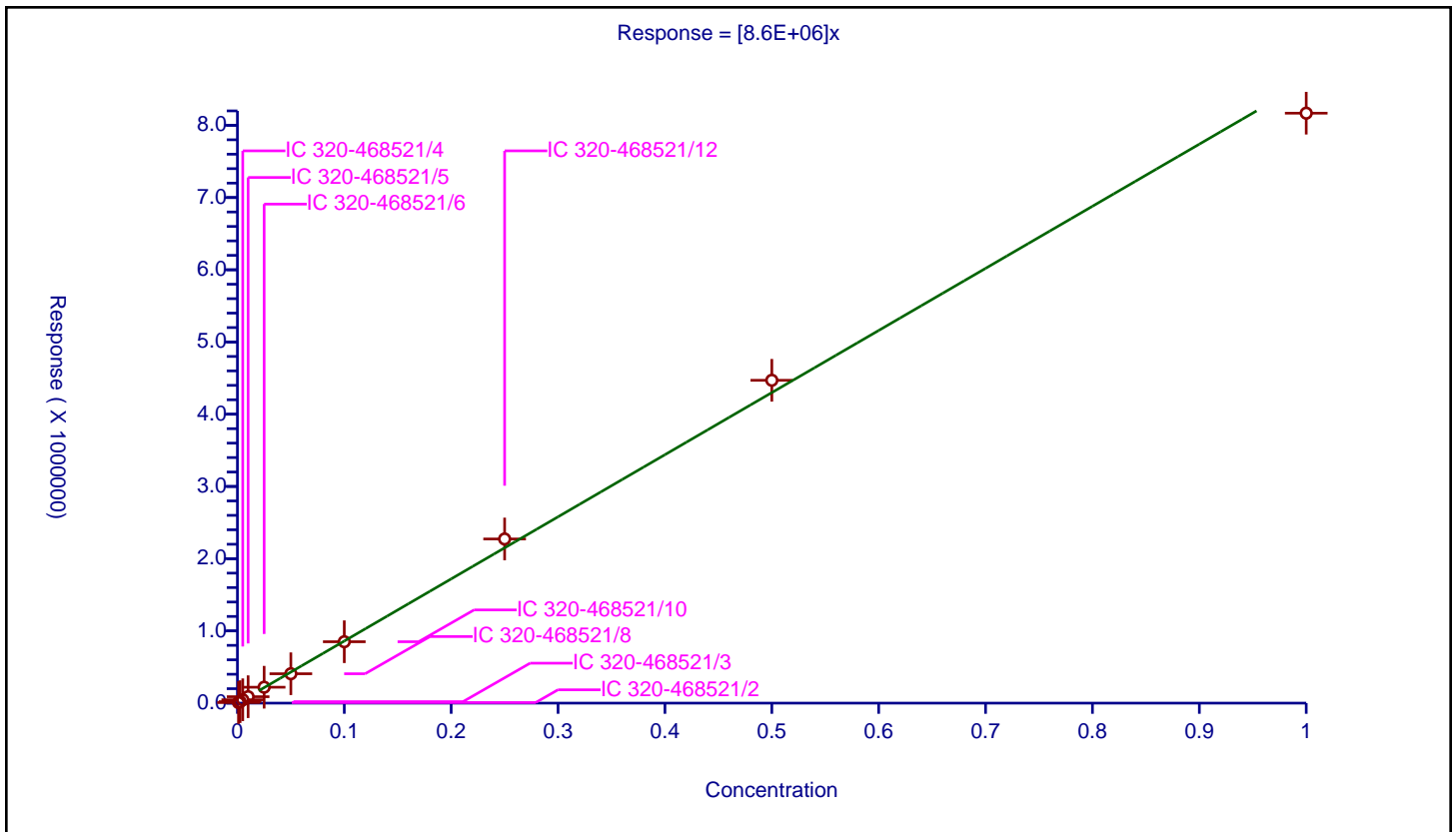
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	8.6E+06

Error Coefficients	
Standard Error:	160000
Relative Standard Error:	5.7
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	7866.0			7866000.0	Y
2	IC 320-468521/3	0.0025	20519.0			8207600.0	Y
3	IC 320-468521/4	0.005	46743.0			9348600.0	Y
4	IC 320-468521/5	0.01	89105.0			8910500.0	Y
5	IC 320-468521/6	0.025	220502.0			8820080.0	Y
6	IC 320-468521/8	0.05	407038.0			8140760.0	Y
7	IC 320-468521/10	0.1	850192.0			8501920.0	Y
8	IC 320-468521/12	0.25	2272793.0			9091172.0	Y
9	IC 320-468521/14	0.5	4470095.0			8940190.0	Y
10	IC 320-468521/15	1.0	8168324.0			8168324.0	Y



Calibration

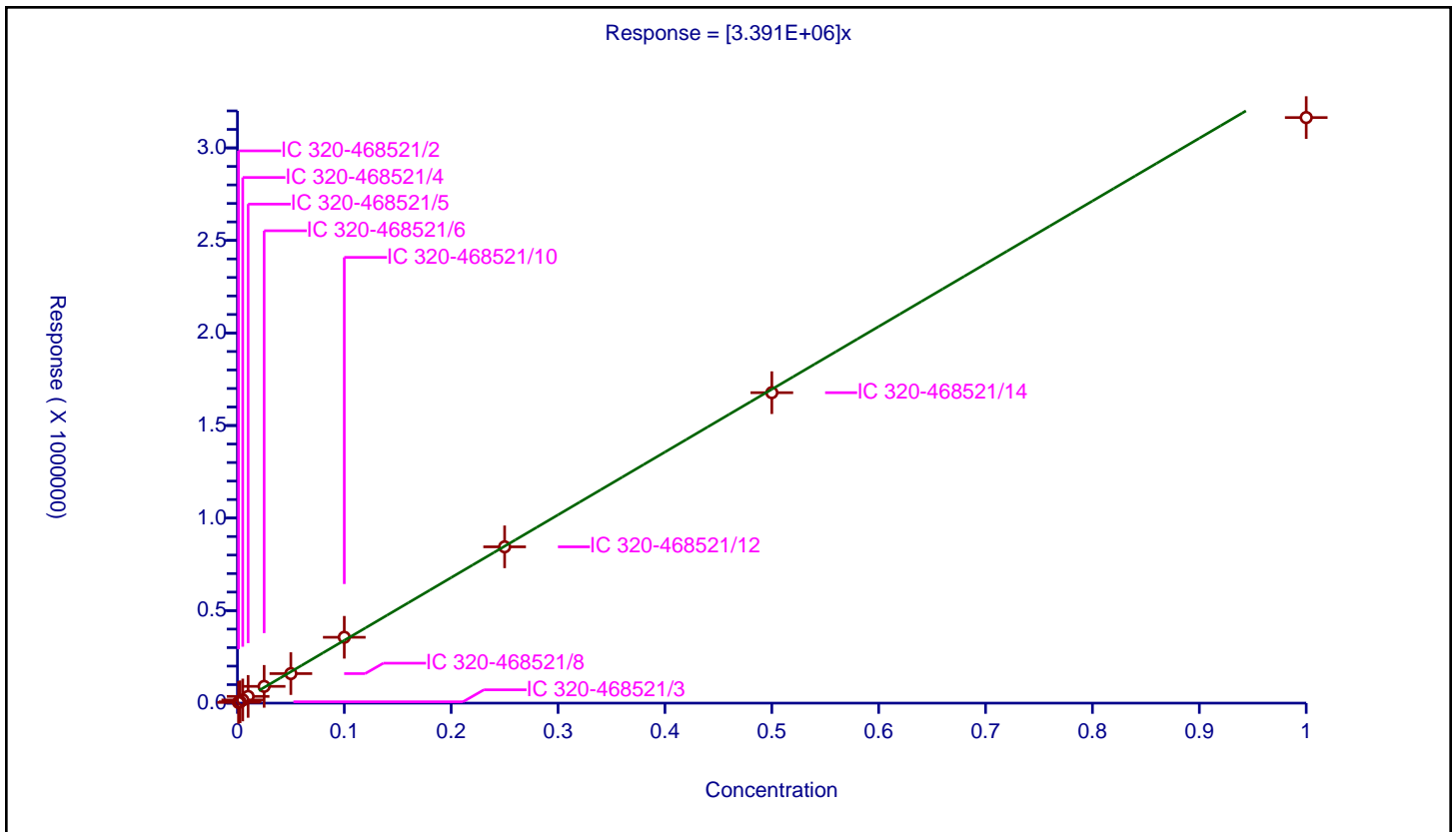
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.391E+06

Error Coefficients	
Standard Error:	76400
Relative Standard Error:	7.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	3726.0			3726000.0	Y
2	IC 320-468521/3	0.0025	7226.0			2890400.0	Y
3	IC 320-468521/4	0.005	16989.0			3397800.0	Y
4	IC 320-468521/5	0.01	36295.0			3629500.0	Y
5	IC 320-468521/6	0.025	90599.0			3623960.0	Y
6	IC 320-468521/8	0.05	159509.0			3190180.0	Y
7	IC 320-468521/10	0.1	355867.0			3558670.0	Y
8	IC 320-468521/12	0.25	844482.0			3377928.0	Y
9	IC 320-468521/14	0.5	1677476.0			3354952.0	Y
10	IC 320-468521/15	1.0	3163918.0			3163918.0	Y



**Calibration**

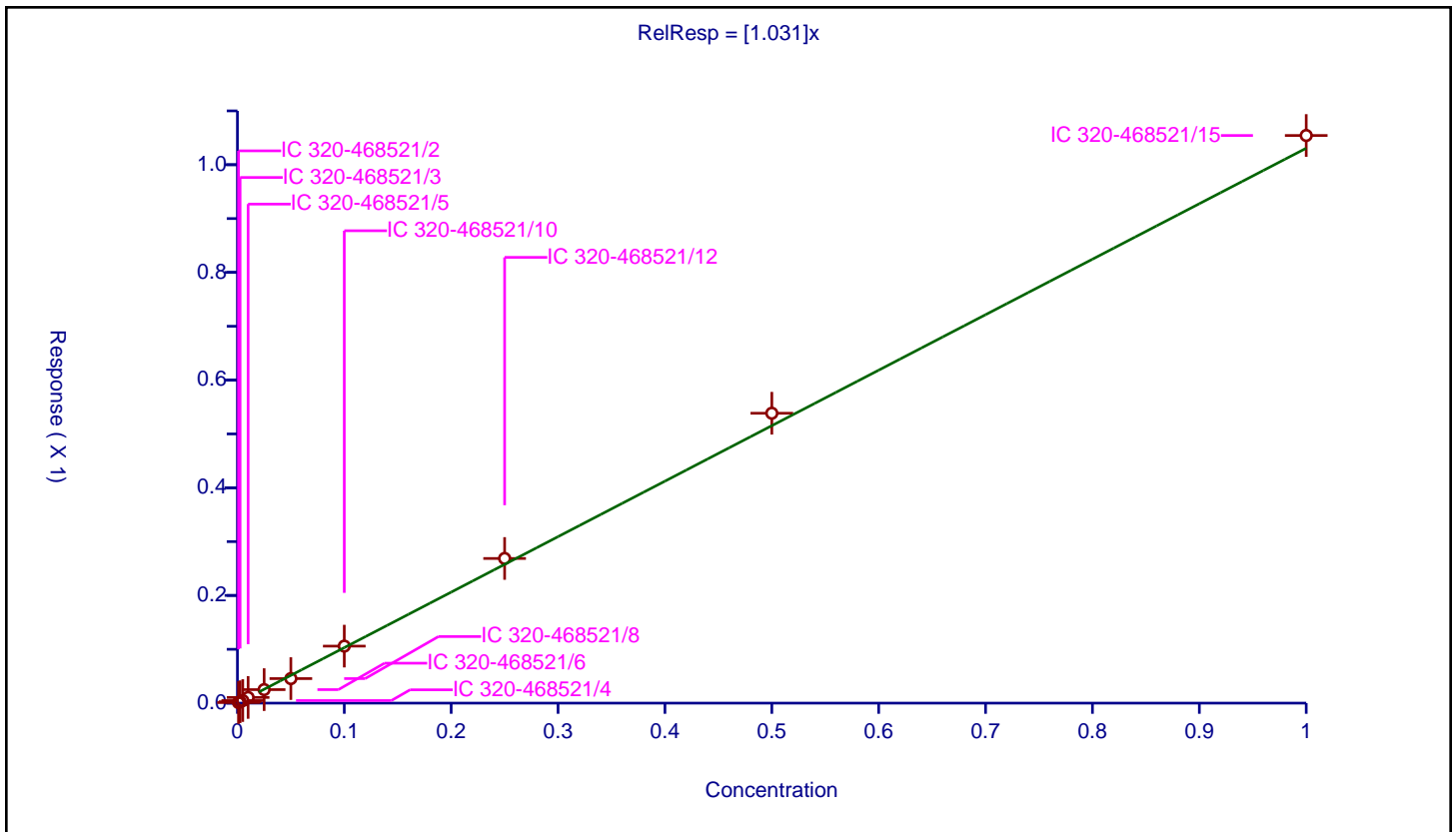
**/ Perfluoro(2-propoxypropanoic) acid**

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.031

Error Coefficients	
Standard Error:	2390000
Relative Standard Error:	5.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-468521/2	0.001	0.001071	0.25	1627606.0	1.071052	Y
2	IC 320-468521/3	0.0025	0.002612	0.25	1578835.0	1.044884	Y
3	IC 320-468521/4	0.005	0.004765	0.25	1642244.0	0.953086	Y
4	IC 320-468521/5	0.01	0.010556	0.25	1658891.0	1.055645	Y
5	IC 320-468521/6	0.025	0.025124	0.25	1618844.0	1.004952	Y
6	IC 320-468521/8	0.05	0.045602	0.25	1700605.0	0.91204	Y
7	IC 320-468521/10	0.1	0.105909	0.25	1522203.0	1.059087	Y
8	IC 320-468521/12	0.25	0.268689	0.25	1528632.0	1.074757	Y
9	IC 320-468521/14	0.5	0.538429	0.25	1464074.0	1.076858	Y
10	IC 320-468521/15	1.0	1.054286	0.25	1470012.0	1.054286	Y



Calibration

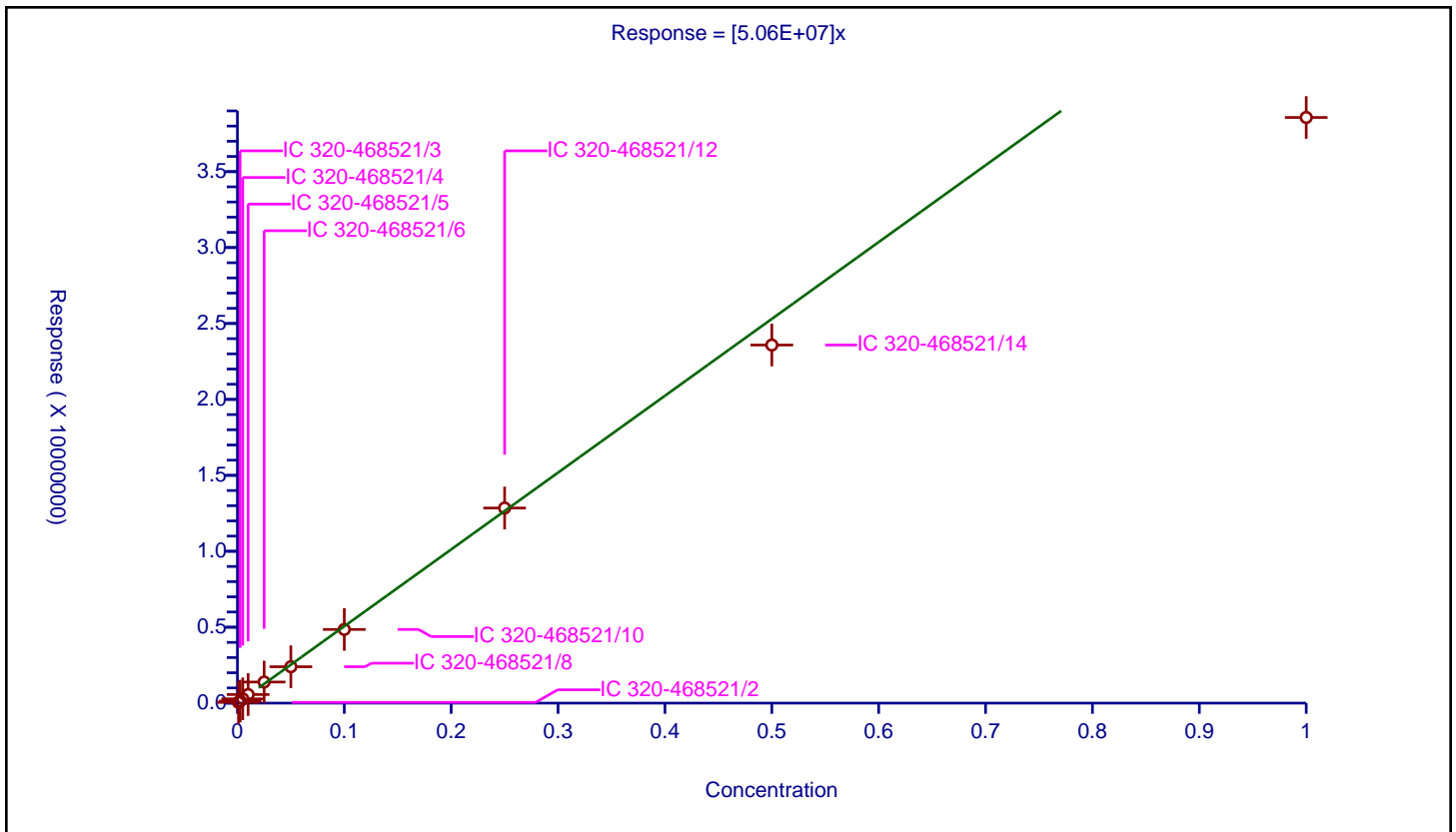
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.06E+07

Error Coefficients	
Standard Error:	4050000
Relative Standard Error:	10.9
Correlation Coefficient:	0.987
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	50115.0			50115000.0	Y
2	IC 320-468521/3	0.0025	133859.0			53543600.0	Y
3	IC 320-468521/4	0.005	283369.0			56673800.0	Y
4	IC 320-468521/5	0.01	564909.0			56490900.0	Y
5	IC 320-468521/6	0.025	1390007.0			55600280.0	Y
6	IC 320-468521/8	0.05	2396230.0			47924600.0	Y
7	IC 320-468521/10	0.1	4852881.0			48528810.0	Y
8	IC 320-468521/12	0.25	12847677.0			51390708.0	Y
9	IC 320-468521/14	0.5	23581631.0			47163262.0	Y
10	IC 320-468521/15	1.0	38566604.0			38566604.0	Y





**Calibration**

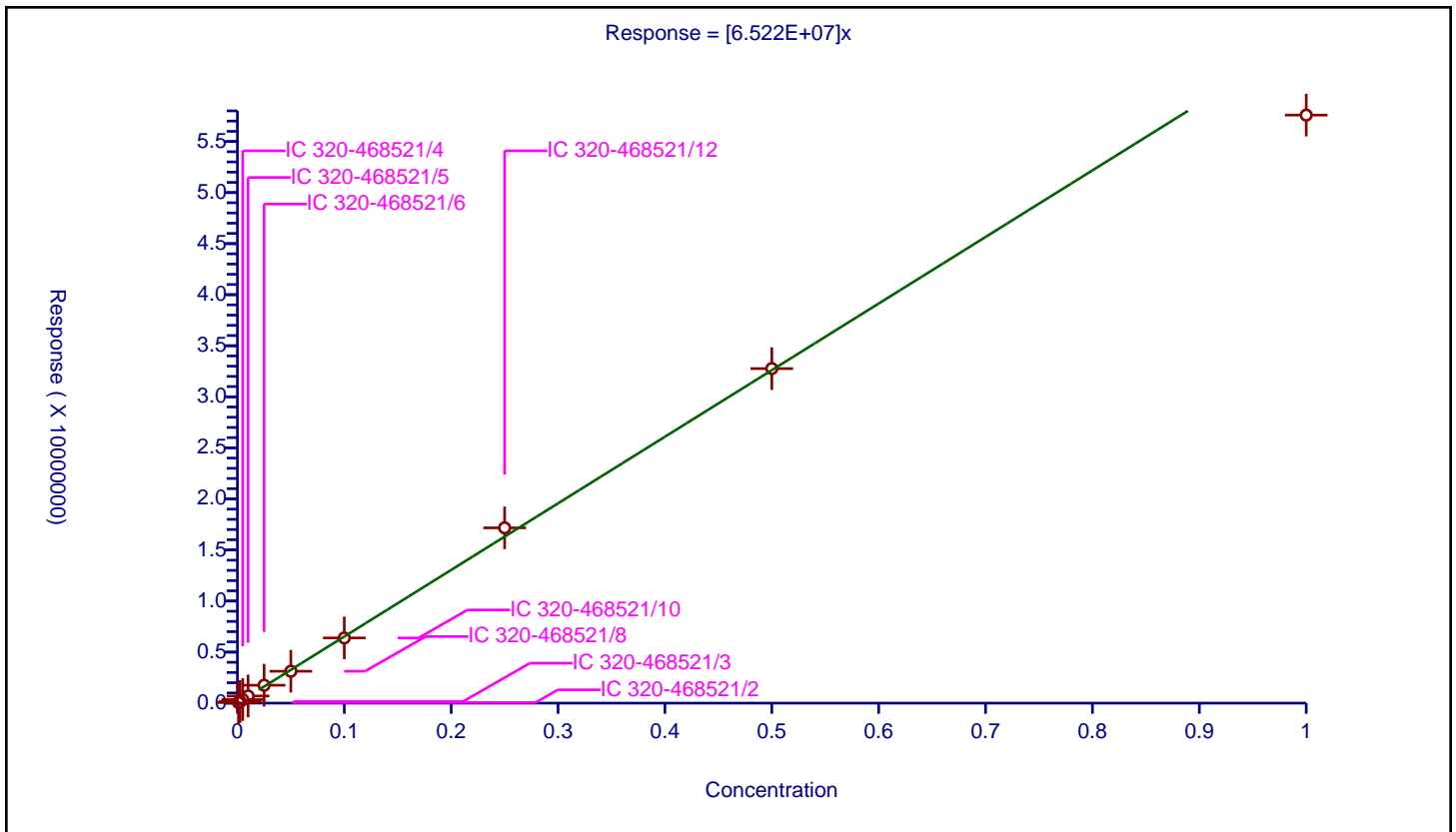
/ Hydro-EVE Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.522E+07

Error Coefficients	
Standard Error:	2560000
Relative Standard Error:	6.5
Correlation Coefficient:	0.995
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	61494.0			61494000.0	Y
2	IC 320-468521/3	0.0025	157576.0			63030400.0	Y
3	IC 320-468521/4	0.005	347626.0			69525200.0	Y
4	IC 320-468521/5	0.01	699286.0			69928600.0	Y
5	IC 320-468521/6	0.025	1753131.0			70125240.0	Y
6	IC 320-468521/8	0.05	3123853.0			62477060.0	Y
7	IC 320-468521/10	0.1	6383181.0			63831810.0	Y
8	IC 320-468521/12	0.25	17165771.0			68663084.0	Y
9	IC 320-468521/14	0.5	32762348.0			65524696.0	Y
10	IC 320-468521/15	1.0	57587964.0			57587964.0	Y



**Calibration**

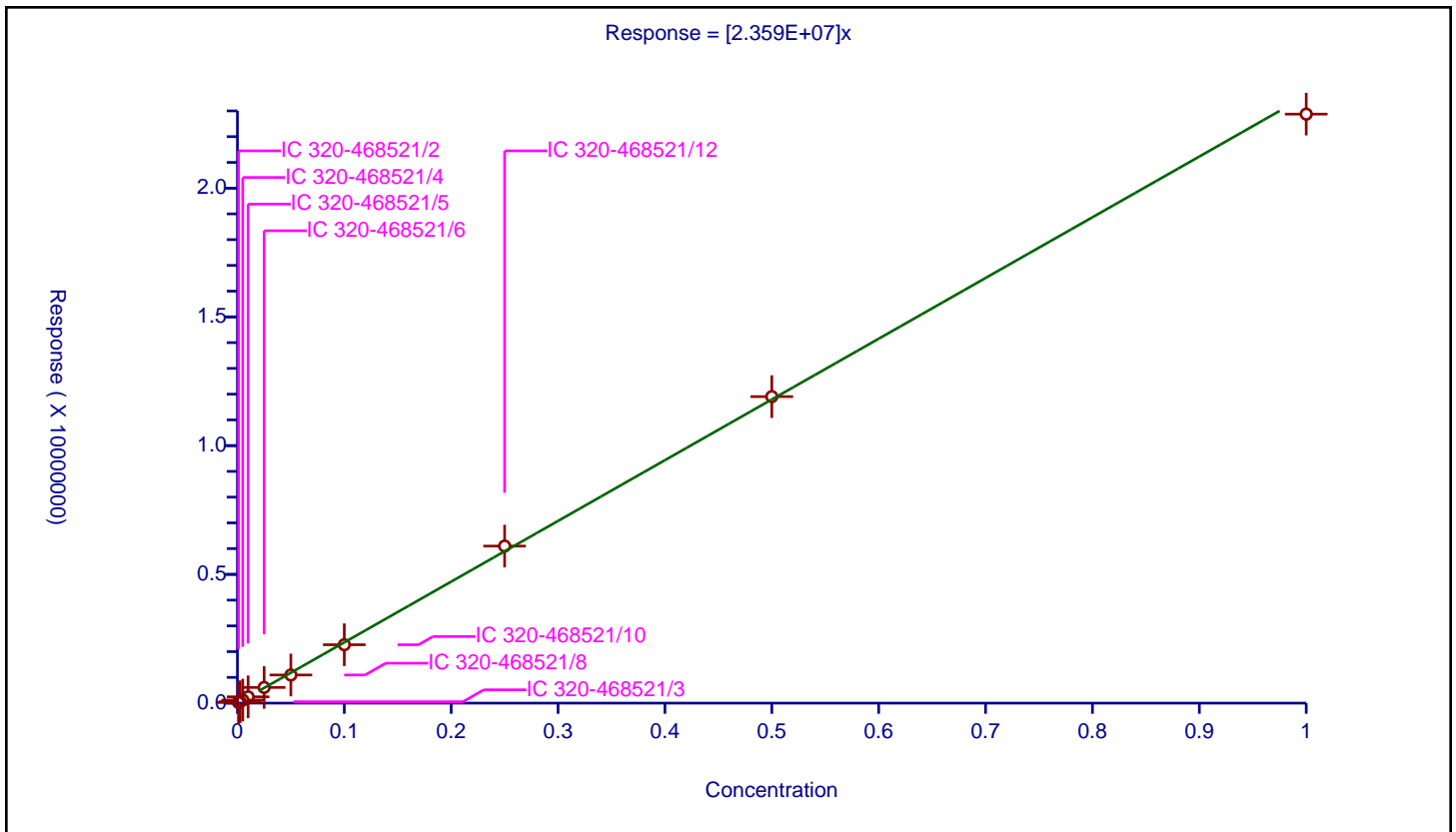
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.359E+07

Error Coefficients	
Standard Error:	253000
Relative Standard Error:	5.1
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.997

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	25655.0			25655000.0	Y
2	IC 320-468521/3	0.0025	55065.0			22026000.0	Y
3	IC 320-468521/4	0.005	118867.0			23773400.0	Y
4	IC 320-468521/5	0.01	244201.0			24420100.0	Y
5	IC 320-468521/6	0.025	609055.0			24362200.0	Y
6	IC 320-468521/8	0.05	1093259.0			21865180.0	Y
7	IC 320-468521/10	0.1	2267939.0			22679390.0	Y
8	IC 320-468521/12	0.25	6099023.0			24396092.0	Y
9	IC 320-468521/14	0.5	11903253.0			23806506.0	Y
10	IC 320-468521/15	1.0	22874579.0			22874579.0	Y



Calibration

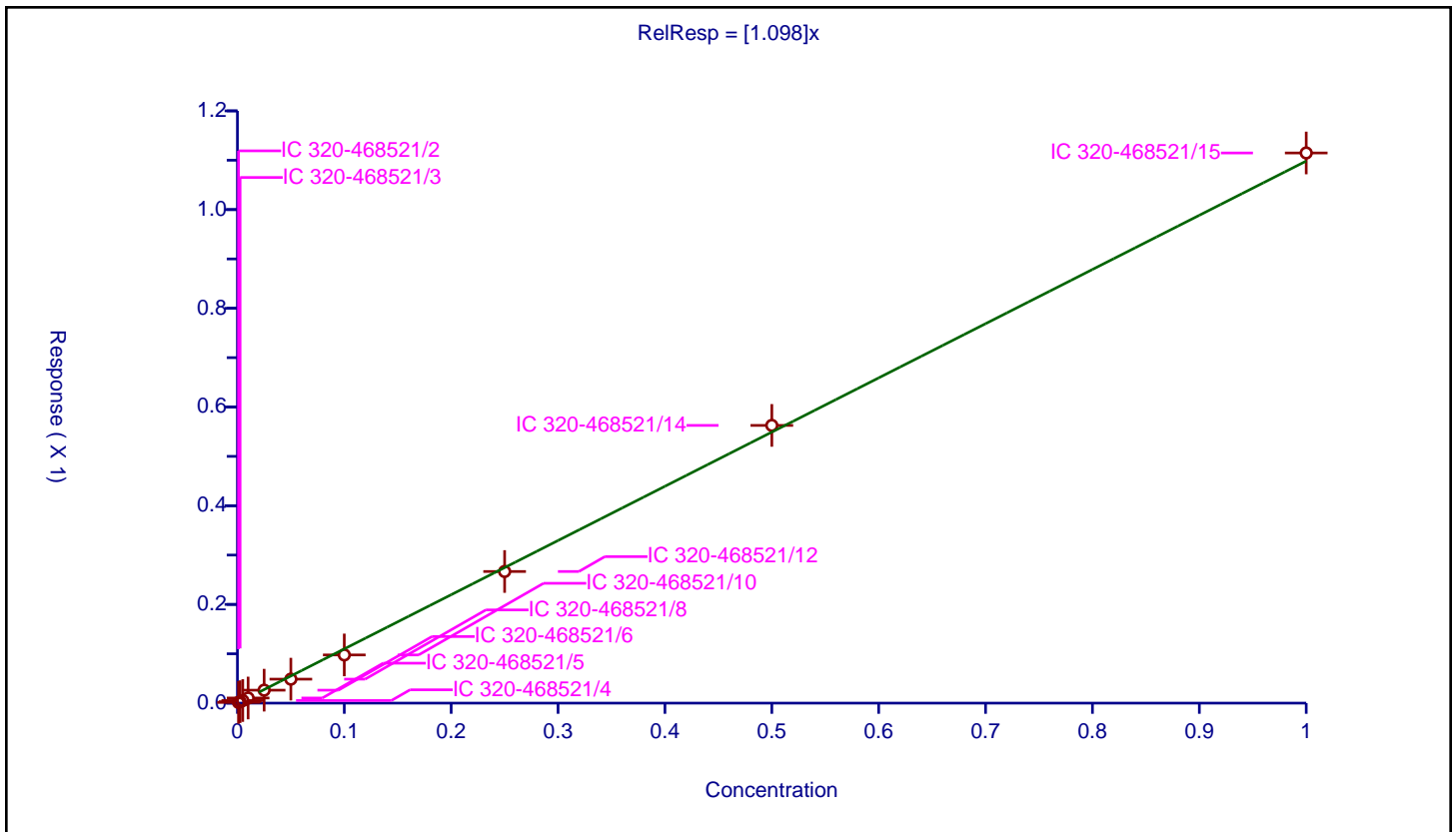
/ Perfluoroheptanoic acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.098

Error Coefficients	
Standard Error:	8040000
Relative Standard Error:	11.7
Correlation Coefficient:	0.982
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-468521/2	0.001	0.001418	0.25	7181550.0	1.417591	Y
2	IC 320-468521/3	0.0025	0.00294	0.25	7164025.0	1.175945	Y
3	IC 320-468521/4	0.005	0.005244	0.25	7324674.0	1.048702	Y
4	IC 320-468521/5	0.01	0.010363	0.25	7271138.0	1.036344	Y
5	IC 320-468521/6	0.025	0.026228	0.25	7084163.0	1.04912	Y
6	IC 320-468521/8	0.05	0.048614	0.25	6480776.0	0.972284	Y
7	IC 320-468521/10	0.1	0.097634	0.25	6654143.0	0.976336	Y
8	IC 320-468521/12	0.25	0.266708	0.25	6454524.0	1.066834	Y
9	IC 320-468521/14	0.5	0.562704	0.25	5429526.0	1.125408	Y
10	IC 320-468521/15	1.0	1.114759	0.25	4352755.0	1.114759	Y



Calibration

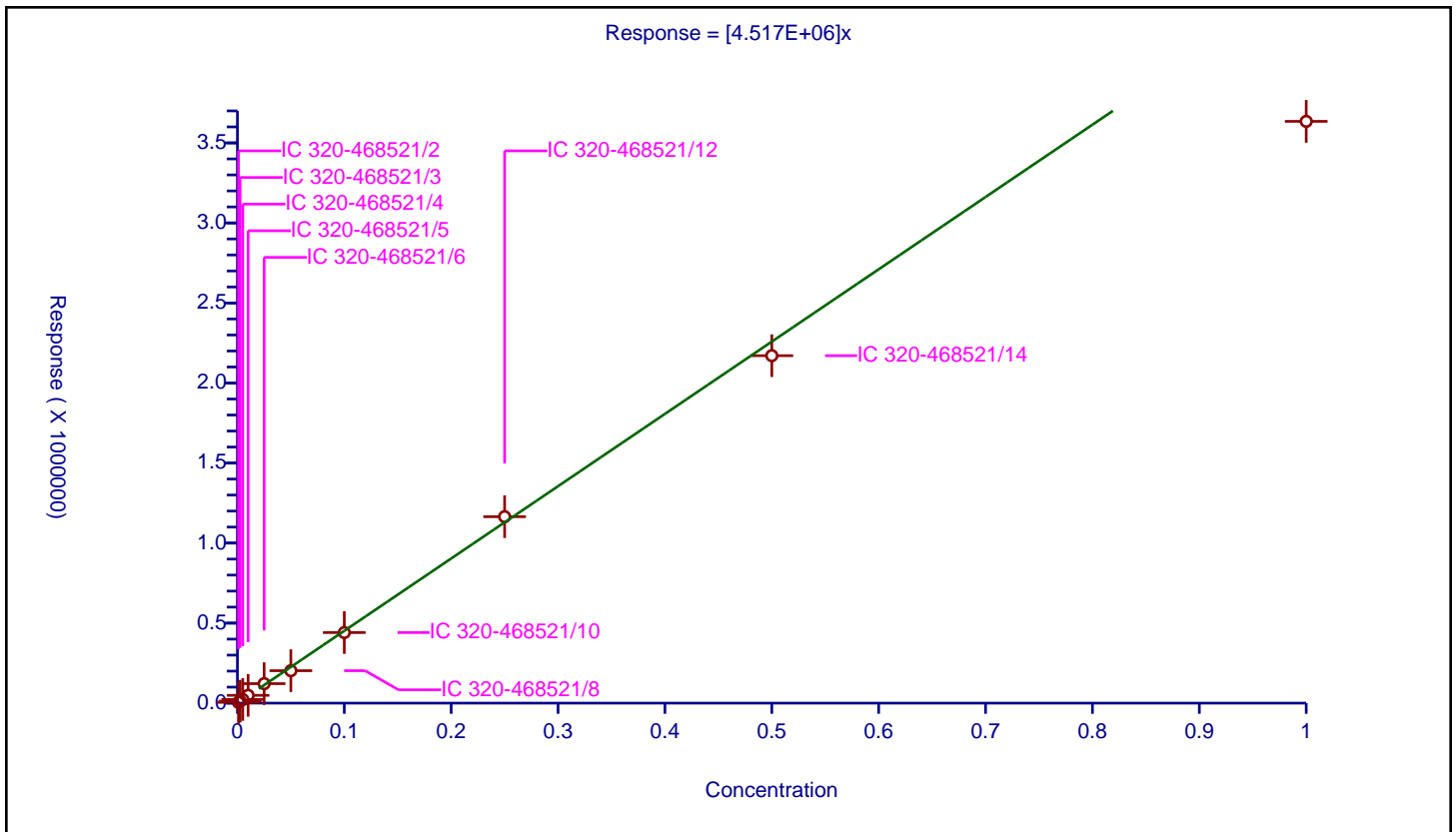
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.517E+06

Error Coefficients	
Standard Error:	296000
Relative Standard Error:	9.3
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	4934.0			4934000.0	Y
2	IC 320-468521/3	0.0025	12079.0			4831600.0	Y
3	IC 320-468521/4	0.005	22903.0			4580600.0	Y
4	IC 320-468521/5	0.01	48620.0			4862000.0	Y
5	IC 320-468521/6	0.025	121727.0			4869080.0	Y
6	IC 320-468521/8	0.05	202591.0			4051820.0	Y
7	IC 320-468521/10	0.1	440813.0			4408130.0	Y
8	IC 320-468521/12	0.25	1164693.0			4658772.0	Y
9	IC 320-468521/14	0.5	2170730.0			4341460.0	Y
10	IC 320-468521/15	1.0	3634590.0			3634590.0	Y



Calibration

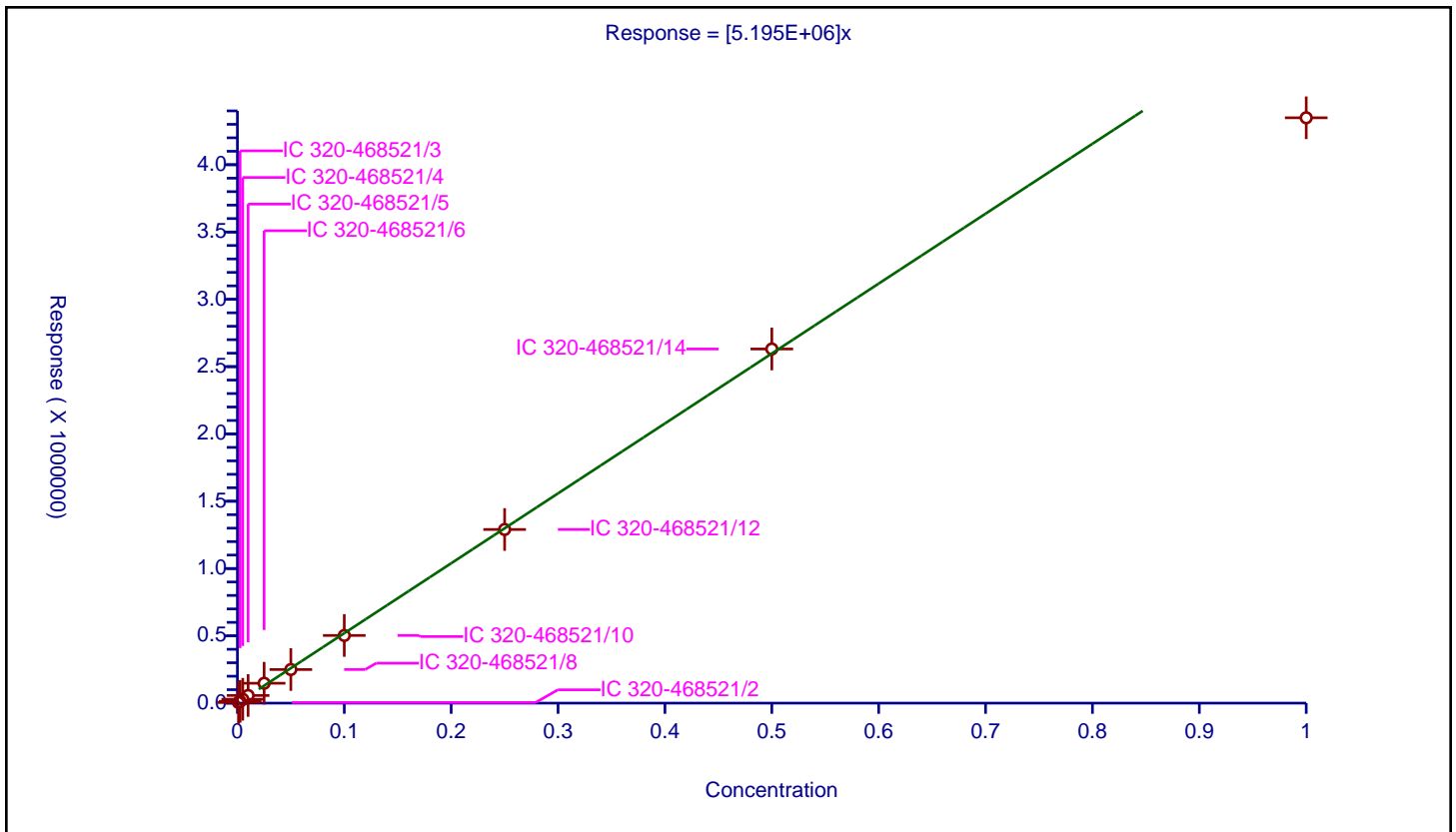
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.195E+06

Error Coefficients	
Standard Error:	282000
Relative Standard Error:	9.5
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	4614.0			4614000.0	Y
2	IC 320-468521/3	0.0025	13005.0			5202000.0	Y
3	IC 320-468521/4	0.005	28703.0			5740600.0	Y
4	IC 320-468521/5	0.01	56911.0			5691100.0	Y
5	IC 320-468521/6	0.025	147649.0			5905960.0	Y
6	IC 320-468521/8	0.05	249708.0			4994160.0	Y
7	IC 320-468521/10	0.1	502711.0			5027110.0	Y
8	IC 320-468521/12	0.25	1289936.0			5159744.0	Y
9	IC 320-468521/14	0.5	2631093.0			5262186.0	Y
10	IC 320-468521/15	1.0	4348756.0			4348756.0	Y



**Calibration**

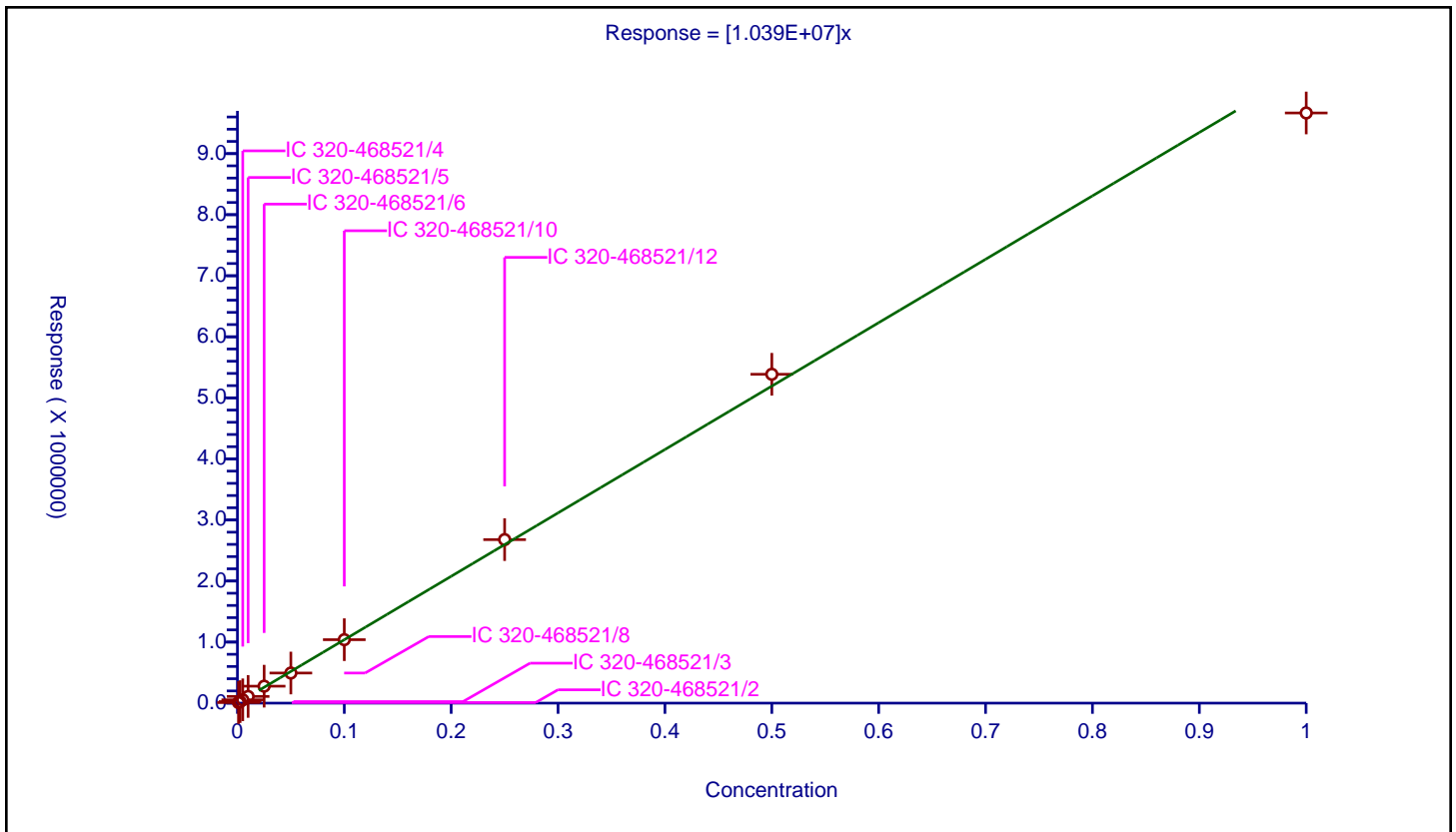
/ PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.039E+07

Error Coefficients	
Standard Error:	250000
Relative Standard Error:	5.7
Correlation Coefficient:	0.997
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	9476.0			9476000.0	Y
2	IC 320-468521/3	0.0025	25058.0			10023200.0	Y
3	IC 320-468521/4	0.005	54303.0			10860600.0	Y
4	IC 320-468521/5	0.01	109802.0			10980200.0	Y
5	IC 320-468521/6	0.025	277703.0			11108120.0	Y
6	IC 320-468521/8	0.05	492991.0			9859820.0	Y
7	IC 320-468521/10	0.1	1039141.0			10391410.0	Y
8	IC 320-468521/12	0.25	2678058.0			10712232.0	Y
9	IC 320-468521/14	0.5	5386188.0			10772376.0	Y
10	IC 320-468521/15	1.0	9666123.0			9666123.0	Y



**Calibration**

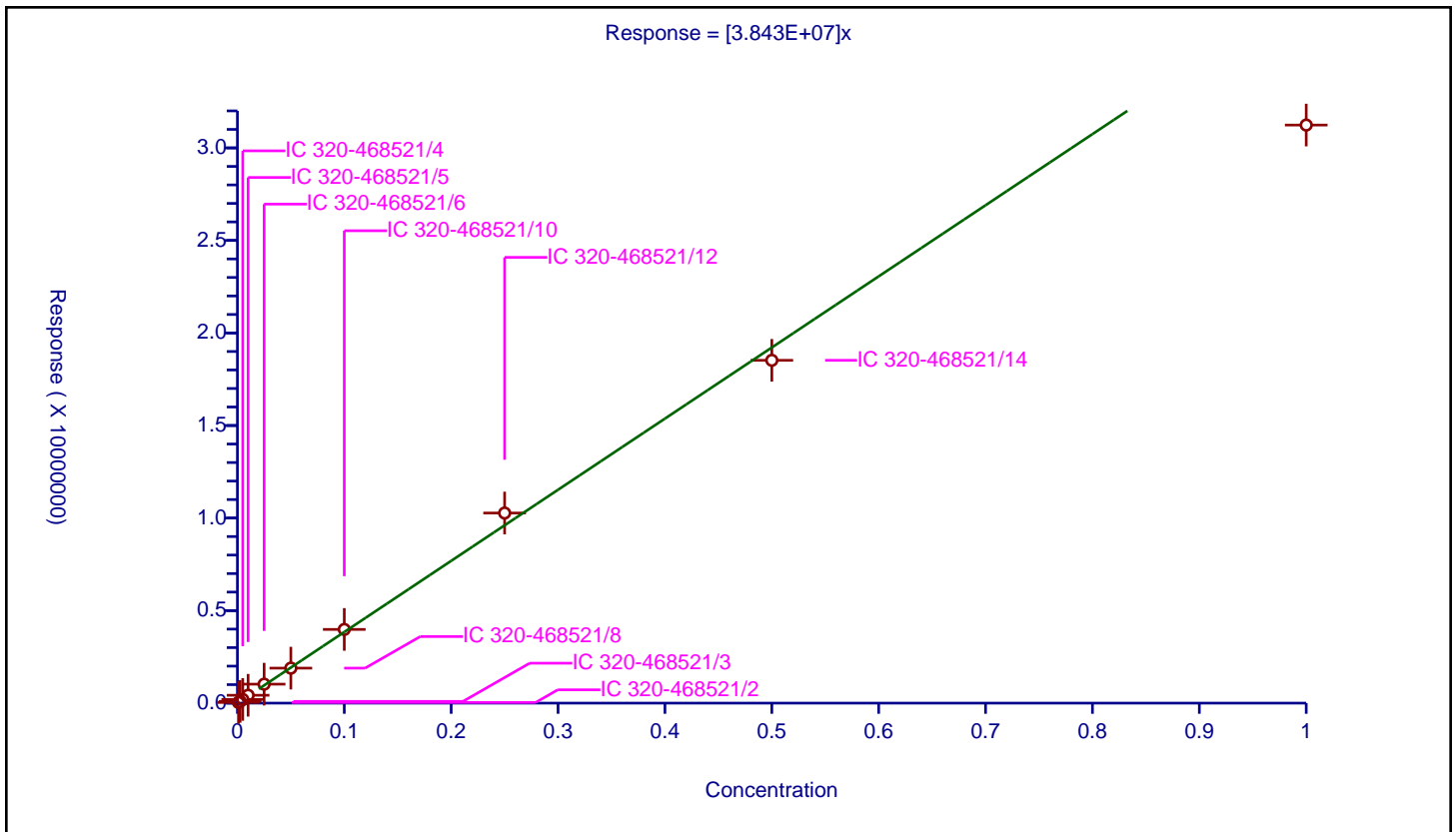
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	3.843E+07

Error Coefficients	
Standard Error:	2420000
Relative Standard Error:	8.4
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	36320.0			36320000.0	Y
2	IC 320-468521/3	0.0025	93739.0			37495600.0	Y
3	IC 320-468521/4	0.005	199662.0			39932400.0	Y
4	IC 320-468521/5	0.01	425539.0			42553900.0	Y
5	IC 320-468521/6	0.025	1024800.0			40992000.0	Y
6	IC 320-468521/8	0.05	1891224.0			37824480.0	Y
7	IC 320-468521/10	0.1	3982692.0			39826920.0	Y
8	IC 320-468521/12	0.25	10271801.0			41087204.0	Y
9	IC 320-468521/14	0.5	18523081.0			37046162.0	Y
10	IC 320-468521/15	1.0	31234468.0			31234468.0	Y



Calibration

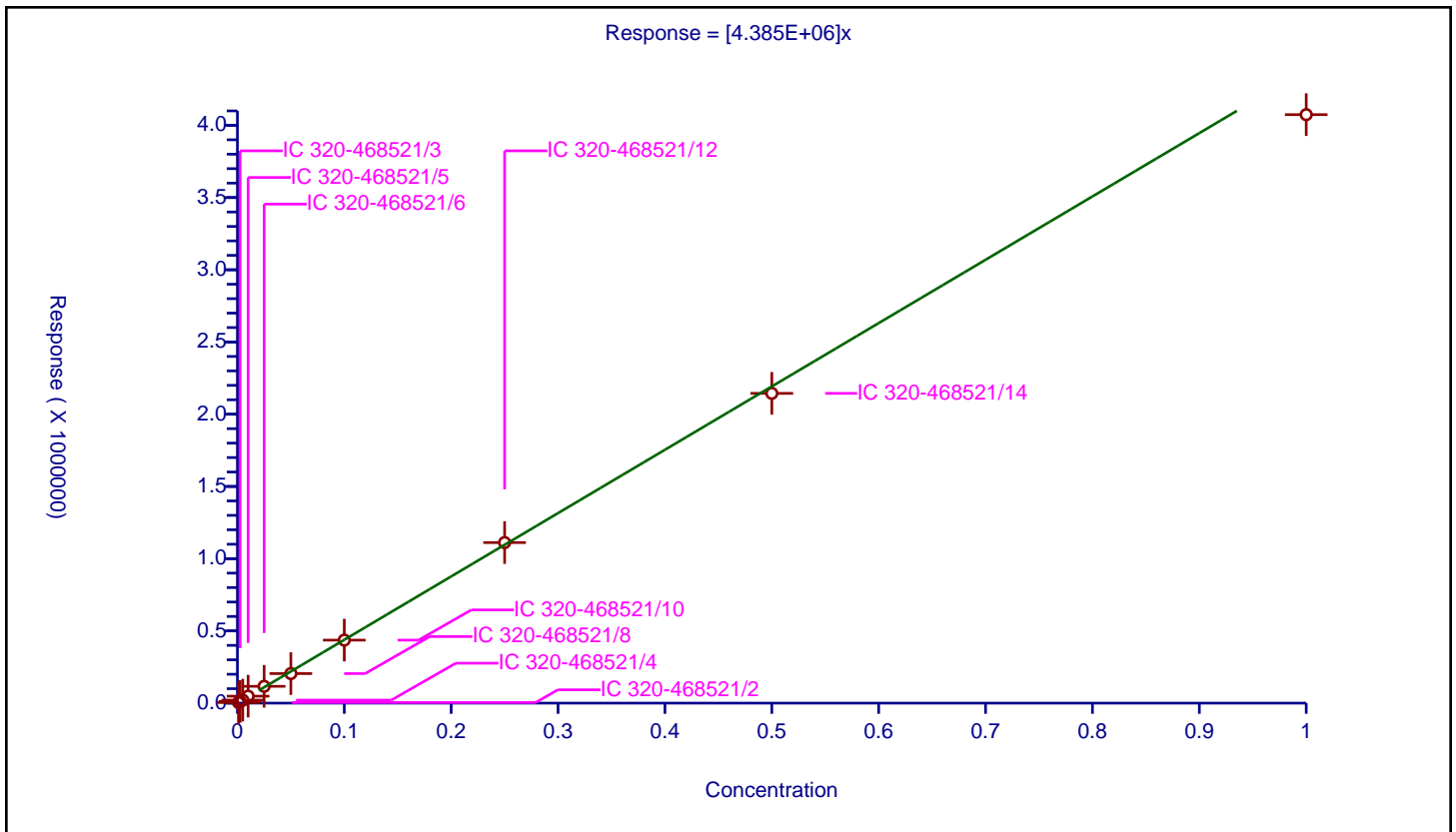
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.385E+06

Error Coefficients	
Standard Error:	105000
Relative Standard Error:	5.8
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-468521/2	0.001	4324.0			4324000.0	Y
2	IC 320-468521/3	0.0025	11554.0			4621600.0	Y
3	IC 320-468521/4	0.005	20779.0			4155800.0	Y
4	IC 320-468521/5	0.01	48252.0			4825200.0	Y
5	IC 320-468521/6	0.025	116421.0			4656840.0	Y
6	IC 320-468521/8	0.05	204623.0			4092460.0	Y
7	IC 320-468521/10	0.1	436127.0			4361270.0	Y
8	IC 320-468521/12	0.25	1111618.0			4446472.0	Y
9	IC 320-468521/14	0.5	2144361.0			4288722.0	Y
10	IC 320-468521/15	1.0	4073951.0			4073951.0	Y





FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-469371/3	2021.03.11_A12_TB3_ICAL_A_006.d
Level 2	IC 320-469371/4	2021.03.11_A12_TB3_ICAL_A_007.d
Level 3	IC 320-469371/5	2021.03.11_A12_TB3_ICAL_A_008.d
Level 4	IC 320-469371/6	2021.03.11_A12_TB3_ICAL_A_009.d
Level 5	IC 320-469371/7	2021.03.11_A12_TB3_ICAL_A_010.d
Level 6	IC 320-469371/9	2021.03.11_A12_TB3_ICAL_A_012.d
Level 7	IC 320-469371/11	2021.03.11_A12_TB3_ICAL_A_014.d
Level 8	IC 320-469371/13	2021.03.11_A12_TB3_ICAL_A_016.d
Level 9	IC 320-469371/15	2021.03.11_A12_TB3_ICAL_A_018.d
Level 10	IC 320-469371/16	2021.03.11_A12_TB3_ICAL_A_019.d

ANALYTE											RT WINDOW		AVG RT
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10			
PFMOAA	4.235	4.076	4.296	3.642	4.098	3.961	3.922	4.305	4.288	3.776	3.985 - 4.485	4.060	
R-EVE	6.390	6.390	6.410	6.287	6.367	6.367	6.387	6.427	+++++	+++++	6.140 - 6.640	6.378	
R-PSDA	6.450	6.430	6.450	6.347	6.427	6.407	6.446	6.466	6.446	6.407	6.200 - 6.700	6.428	
Hydrolyzed PSDA	6.529	6.530	6.530	6.446	6.506	6.506	6.526	6.546	+++++	+++++	6.279 - 6.779	6.515	
PMPA	6.782	6.759	6.807	6.684	6.755	6.732	6.755	6.803	6.779	6.732	6.532 - 7.032	6.759	
NVHOS	7.138	7.138	7.162	7.087	7.111	7.111	7.134	7.185	7.158	7.134	6.888 - 7.388	7.136	
PFO2HxA	7.709	7.710	7.741	7.706	7.706	7.706	7.737	7.740	7.737	7.737	7.459 - 7.959	7.723	
PEPA	8.299	8.300	8.336	8.295	8.295	8.295	8.330	8.335	8.295	8.295	8.049 - 8.549	8.308	
PES	8.556	8.557	8.557	8.555	8.555	8.555	8.588	8.589	8.555	8.588	8.306 - 8.806	8.566	
PFECA B	8.800	8.800	8.800	8.797	8.797	8.797	8.797	8.830	8.797	8.798	8.550 - 9.050	8.801	
PFO3OA	9.048	9.049	9.049	9.045	9.045	9.017	9.045	9.048	9.045	9.047	8.798 - 9.298	9.044	
Perfluoro(2-propoxypropanoic) acid	9.133	9.133	9.133	9.130	9.130	9.130	9.158	9.161	9.130	9.160	8.883 - 9.383	9.140	
R-PSDCA	9.493	9.493	9.493	9.490	9.490	9.490	9.522	9.525	9.490	9.491	9.243 - 9.743	9.498	
Hydro-EVE Acid	9.525	9.526	9.526	9.522	9.523	9.523	9.555	9.558	9.523	9.556	9.275 - 9.775	9.534	
Perfluoroheptanoic acid	9.558	9.558	9.558	9.555	9.555	9.523	9.555	9.558	9.555	9.556	9.308 - 9.808	9.553	
Hydro-PS Acid	9.558	9.558	9.558	9.555	9.555	9.555	9.587	9.590	9.555	9.556	9.308 - 9.808	9.563	
PFECA G	9.676	9.673	9.673	9.673	9.674	9.645	9.673	9.676	9.674	+++++	9.426 - 9.926	9.671	
PFO4DA	9.820	9.816	9.817	9.817	9.817	9.788	9.817	+++++	+++++	+++++	9.570 - 10.070	9.813	
PS Acid	9.877	9.874	9.874	9.874	9.874	9.874	9.903	9.906	9.874	9.876	9.627 - 10.127	9.881	
EVE Acid	9.877	9.903	9.903	9.874	9.903	9.874	9.903	9.906	9.874	+++++	9.627 - 10.127	9.891	
PFO5DA	10.374	10.396	10.396	10.373	10.374	10.374	10.399	10.399	10.374	10.401	10.124 - 10.624	10.386	
13C3 HFPO-DA	9.133	9.133	9.133	9.130	9.130	9.130	9.158	9.161	9.130	9.131	9.033 - 9.233	9.137	
13C4 PFHpA	9.558	9.558	9.558	9.555	9.555	9.523	9.555	9.558	9.555	9.556	9.458 - 9.658	9.553	

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-469371/3	2021.03.11_A12_TB3_ICAL_A_006.d
Level 2	IC 320-469371/4	2021.03.11_A12_TB3_ICAL_A_007.d
Level 3	IC 320-469371/5	2021.03.11_A12_TB3_ICAL_A_008.d
Level 4	IC 320-469371/6	2021.03.11_A12_TB3_ICAL_A_009.d
Level 5	IC 320-469371/7	2021.03.11_A12_TB3_ICAL_A_010.d
Level 6	IC 320-469371/9	2021.03.11_A12_TB3_ICAL_A_012.d
Level 7	IC 320-469371/11	2021.03.11_A12_TB3_ICAL_A_014.d
Level 8	IC 320-469371/13	2021.03.11_A12_TB3_ICAL_A_016.d
Level 9	IC 320-469371/15	2021.03.11_A12_TB3_ICAL_A_018.d
Level 10	IC 320-469371/16	2021.03.11_A12_TB3_ICAL_A_019.d

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PFMOAA	9219000 9600560 11459606	8769200 10885900 11493204	10142000 10976110	9327000 11539048	Ave		10341162. 8			10.2			50.0			
R-EVE	6451000 6091560 ++++	6171600 7098560 ++++	6465600 7175440	6036600 7545904	Ave		6629533.0 0			8.6			50.0			
R-PSDA	3111000 2755080 3710836	3264000 3290720 3735435	3050200 3436460	2839600 3660252	Ave		3285358.3 0			10.7			50.0			
Hydrolyzed PSDA	13566000 11836360 ++++	12403600 13254040 ++++	12041800 13620030	11512000 14177504	Ave		12801416. 8			7.6			50.0			
PMPA	50687000 18600920 20157096	32537200 20048780 20226211	22915200 19893880	20721400 20986864	Lin2	31230.792 3	19127743. 3			7.8			0.9930			0.9900
NVHOS	7401000 6613880 8179056	6512800 7357300 8052787	6944800 7429110	6319900 8255608	Ave		7306624.1 0			9.6			50.0			
PFO2HxA	14170000 14318000 16313946	14232800 16522800 16248356	14835000 16281540	14107100 17230360	Ave		15425990. 2			7.8			50.0			
PEPA	5713000 5922440 7392076	6088800 7150360 7292414	5930400 7366140	6108700 7676872	Ave		6664120.2 0			11.5			50.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
PES	20899000 19757200 29010936	21491200 24249160 30218151	21065600 25035170	20122400 30153900	Ave		24200271. 7			17.4		50.0				
PFECA B	11628000 10378160 11351310	11212000 12085900 10862667	10817400 11743610	10784700 12377672	Ave		11324141. 9			5.6		50.0				
PFO3OA	4113000 4255280 5421386	4130400 5413900 5196365	4617400 5296310	4114000 6043804	Ave		4860184.5 0			14.4		50.0				
R-PSDCA	56403000 51392680 51157016	50906000 65763160 40333918	54352800 58818520	52923600 59065472	Ave		54111616. 6			12.4		50.0				
Hydro-EVE Acid	78607000 73942560 72981448	77886800 84467780 63520565	72662800 80584720	70780700 85417544	Ave		76085191. 7			8.8		50.0				
Hydro-PS Acid	29651000 28537320 32806950	31168400 33222320 30747606	31050200 33461710	28281400 34649448	Ave		31357635. 4			6.9		50.0				
PFECA G	6090000 5766640 4932578	6141600 6888240 +++++	5694400 6073480	5773400 5878284	Ave		5915402.4 4			8.7		50.0				
PFO4DA	5763000 5874760 +++++	6758800 8398840 +++++	5960000 7006000	6098500 +++++	Ave		6551414.2 9			14.3		50.0				
PS Acid	13693000 12908600 13361256	13799200 14845220 11215856	12965200 14726540	12301700 14517544	Ave		13433411. 6			8.5		50.0				
EVE Acid	54073000 48736080 41852806	50982000 58779140 +++++	52270000 53273760	49814900 49567792	Ave		51038830. 9			9.0		50.0				
PFO5DA	5041000 5288880 6252184	6024400 6460700 5021736	5031400 6712190	5058900 6661456	Ave		5755284.6 0			12.7		50.0				
13C3 HFPO-DA	8179668 7572736 7825980	8202736 7870920 7437968	7801340 7520892	7886928 7519792	Ave		7781896.0 0			3.5		50.0				

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1 LVL 5 LVL 9	LVL 2 LVL 6 LVL 10	LVL 3 LVL 7	LVL 4 LVL 8		B	M1	M2								
13C4 PFHpA	29580276 25520232 21106560	28029080 26765012 17385916	27670176 22383804	24218476 22061336	Ave		24472086. 8			15.4			50.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10												
Perfluoro(2-propoxypropanoic) acid	1.1153 1.1358	1.0069 1.2214	0.9901 1.2638	1.0058 1.1082	1.0728 1.1146	AveI D		1.103 5			8.2		35.0				
Perfluoroheptanoic acid	1.6630 1.2203	1.3066 1.2833	1.3399 1.2944	1.1304 1.1187	1.1175 1.1216	L2ID	0.000 5	1.176 5			7.0			0.9950			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI  
 LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-469371/3	2021.03.11_A12_TB3_ICAL_A_006.d
Level 2	IC 320-469371/4	2021.03.11_A12_TB3_ICAL_A_007.d
Level 3	IC 320-469371/5	2021.03.11_A12_TB3_ICAL_A_008.d
Level 4	IC 320-469371/6	2021.03.11_A12_TB3_ICAL_A_009.d
Level 5	IC 320-469371/7	2021.03.11_A12_TB3_ICAL_A_010.d
Level 6	IC 320-469371/9	2021.03.11_A12_TB3_ICAL_A_012.d
Level 7	IC 320-469371/11	2021.03.11_A12_TB3_ICAL_A_014.d
Level 8	IC 320-469371/13	2021.03.11_A12_TB3_ICAL_A_016.d
Level 9	IC 320-469371/15	2021.03.11_A12_TB3_ICAL_A_018.d
Level 10	IC 320-469371/16	2021.03.11_A12_TB3_ICAL_A_019.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
PFMOAA	Ave	9219	21923	50710	93270	240014	0.00100	0.00250	0.00500	0.0100	0.0250
		544295	1097611	2884762	5729803	11493204	0.0500	0.100	0.250	0.500	1.00
R-EVE	Ave	6451	15429	32328	60366	152289	0.00100	0.00250	0.00500	0.0100	0.0250
		354928	717544	1886476	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
R-PSDA	Ave	3111	8160	15251	28396	68877	0.00100	0.00250	0.00500	0.0100	0.0250
		164536	343646	915063	1855418	3735435	0.0500	0.100	0.250	0.500	1.00
Hydrolyzed PSDA	Ave	13566	31009	60209	115120	295909	0.00100	0.00250	0.00500	0.0100	0.0250
		662702	1362003	3544376	+++++	+++++	0.0500	0.100	0.250	+++++	+++++
PMPA	Lin2	50687	81343	114576	207214	465023	0.00100	0.00250	0.00500	0.0100	0.0250
		1002439	1989388	5246716	10078548	20226211	0.0500	0.100	0.250	0.500	1.00
NVHOS	Ave	7401	16282	34724	63199	165347	0.00100	0.00250	0.00500	0.0100	0.0250
		367865	742911	2063902	4089528	8052787	0.0500	0.100	0.250	0.500	1.00
PFO2HxA	Ave	14170	35582	74175	141071	357950	0.00100	0.00250	0.00500	0.0100	0.0250
		826140	1628154	4307590	8156973	16248356	0.0500	0.100	0.250	0.500	1.00
PEPA	Ave	5713	15222	29652	61087	148061	0.00100	0.00250	0.00500	0.0100	0.0250
		357518	736614	1919218	3696038	7292414	0.0500	0.100	0.250	0.500	1.00
PES	Ave	20899	53728	105328	201224	493930	0.00100	0.00250	0.00500	0.0100	0.0250
		1212458	2503517	7538475	14505468	30218151	0.0500	0.100	0.250	0.500	1.00
PFECA B	Ave	11628	28030	54087	107847	259454	0.00100	0.00250	0.00500	0.0100	0.0250
		604295	1174361	3094418	5675655	10862667	0.0500	0.100	0.250	0.500	1.00
PFO3OA	Ave	4113	10326	23087	41140	106382	0.00100	0.00250	0.00500	0.0100	0.0250
		270695	529631	1510951	2710693	5196365	0.0500	0.100	0.250	0.500	1.00
R-PSDCA	Ave	56403	127265	271764	529236	1284817	0.00100	0.00250	0.00500	0.0100	0.0250
		3288158	5881852	14766368	25578508	40333918	0.0500	0.100	0.250	0.500	1.00

FORM VI  
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA  
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4 LVL 9	LVL 5 LVL 10
Hydro-EVE Acid	Ave	78607	194717	363314	707807	1848564	0.00100	0.00250	0.00500	0.0100	0.0250
		4223389	8058472	21354386	36490724	63520565	0.0500	0.100	0.250	0.500	1.00
Hydro-PS Acid	Ave	29651	77921	155251	282814	713433	0.00100	0.00250	0.00500	0.0100	0.0250
		1661116	3346171	8662362	16403475	30747606	0.0500	0.100	0.250	0.500	1.00
PFECA G	Ave	6090	15354	28472	57734	144166	0.00100	0.00250	0.00500	0.0100	0.0250
		344412	607348	1469571	2466289	+++++	0.0500	0.100	0.250	0.500	+++++
PFO4DA	Ave	5763	16897	29800	60985	146869	0.00100	0.00250	0.00500	0.0100	0.0250
		419942	700600	+++++	+++++	+++++	0.0500	0.100	+++++	+++++	+++++
PS Acid	Ave	13693	34498	64826	123017	322715	0.00100	0.00250	0.00500	0.0100	0.0250
		742261	1472654	3629386	6680628	11215856	0.0500	0.100	0.250	0.500	1.00
EVE Acid	Ave	54073	127455	261350	498149	1218402	0.00100	0.00250	0.00500	0.0100	0.0250
		2938957	5327376	12391948	20926403	+++++	0.0500	0.100	0.250	0.500	+++++
PFO5DA	Ave	5041	15061	25157	50589	132222	0.00100	0.00250	0.00500	0.0100	0.0250
		323035	671219	1665364	3126092	5021736	0.0500	0.100	0.250	0.500	1.00
13C3 HFPO-DA	Ave	2044917	2050684	1950335	1971732	1893184	0.250	0.250	0.250	0.250	0.250
		1967730	1880223	1879948	1956495	1859492	0.250	0.250	0.250	0.250	0.250
13C4 PFHpA	Ave	7395069	7007270	6917544	6054619	6380058	0.250	0.250	0.250	0.250	0.250
		6691253	5595951	5515334	5276640	4346479	0.250	0.250	0.250	0.250	0.250

Curve Type Legend

Ave = Average  
Lin2 = Linear 1/conc^2

FORM VI  
 LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA  
 RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1 Analy Batch No.: 469371

SDG No.: \_\_\_\_\_

Instrument ID: A12 GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 03/11/2021 12:14 Calibration End Date: 03/11/2021 16:03 Calibration ID: 54512

Calibration Files

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-469371/3	2021.03.11_A12_TB3_ICAL_A_006.d
Level 2	IC 320-469371/4	2021.03.11_A12_TB3_ICAL_A_007.d
Level 3	IC 320-469371/5	2021.03.11_A12_TB3_ICAL_A_008.d
Level 4	IC 320-469371/6	2021.03.11_A12_TB3_ICAL_A_009.d
Level 5	IC 320-469371/7	2021.03.11_A12_TB3_ICAL_A_010.d
Level 6	IC 320-469371/9	2021.03.11_A12_TB3_ICAL_A_012.d
Level 7	IC 320-469371/11	2021.03.11_A12_TB3_ICAL_A_014.d
Level 8	IC 320-469371/13	2021.03.11_A12_TB3_ICAL_A_016.d
Level 9	IC 320-469371/15	2021.03.11_A12_TB3_ICAL_A_018.d
Level 10	IC 320-469371/16	2021.03.11_A12_TB3_ICAL_A_019.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
			LVL 6	LVL 7	LVL 8	LVL 9	LVL 10	LVL 6	LVL 7	LVL 8	LVL 9	LVL 10
Perfluoro(2-propoxypropanoic) acid		AveI D	9123	20648	38622	79329	203095	0.00100	0.00250	0.00500	0.0100	0.0250
			446970	918574	2375785	4336556	8290063	0.0500	0.100	0.250	0.500	1.00
Perfluoroheptanoic acid		L2ID	49193	91555	185376	273774	712955	0.00100	0.00250	0.00500	0.0100	0.0250
			1633022	2872511	7138839	11805867	19500901	0.0500	0.100	0.250	0.500	1.00

Curve Type Legend

AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil



Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_006.d  
 Lims ID: IC STD 1  
 Client ID:  
 Sample Type: IC Calib Level: 1  
 Inject. Date: 11-Mar-2021 12:14:59 ALS Bottle#: 6 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 1 (61)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:50 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 12-Mar-2021 11:41:54

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.235	4.235	0.0		9219	0.000891		89.1	1.4	M
2 R-EVE										M
405.00 > 217.00	6.390	6.390	0.0		6451	0.000973		97.3	85.2	M
3 R-PSDA										M
440.90 > 241.00	6.450	6.450	0.0		3111	0.000947		94.7	29.7	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.529	6.529	0.0		13566	0.001060		106	220	
23 PMPA										M
229.00 > 185.00	6.782	6.782	0.0		50687	0.001017		102	60.9	M
5 NVHOS										
297.00 > 135.00	7.138	7.138	0.0		7401	0.001013		101	159	
6 PFO2HxA										
245.00 > 85.00	7.709	7.709	0.0		14170	0.000919		91.9	157	
22 PEPA										
278.90 > 234.90	8.299	8.299	0.0		5713	0.000857		85.7	39.7	
7 PES										
314.90 > 135.00	8.556	8.556	0.0		20899	0.000864		86.4	530	
8 PFECA B										
295.00 > 201.00	8.800	8.800	0.0		11628	0.001027		103	310	
9 PFO3OA										
310.90 > 85.00	9.048	9.048	0.0		4113	0.000846		84.6	112	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.133	9.133	0.0		2044917	0.2628		105	35229	
11 HPFO-DA										
285.00 > 169.00	9.133	9.133	0.0	1.000	9123	0.001011		101	116	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.493	9.493	0.0		56403	0.001042		104	1480	
13 Hydro-EVE Acid										
427.00 > 282.90	9.525	9.525	0.0		78607	0.001033		103	1113	
D 14 13C4 PFHpA										
367.00 > 322.00	9.558	9.558	0.0		7395069	0.3022		121	96884	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.558	9.558	0.0	1.000	49193	0.001016	Target=0.00	102	491	
363.00 > 169.00	9.558	9.558	0.0	1.000	15709		3.13(0.00-0.00)	102	106	
15 Hydro-PS Acid										
463.00 > 262.90	9.558	9.558	0.0		29651	0.000946		94.6	674	
17 PFECA G										
378.90 > 184.90	9.676	9.676	0.0		6090	0.001030		103	171	
18 PFO4DA										
376.90 > 85.00	9.820	9.820	0.0		5763	0.000880		88.0	166	
20 EVE Acid										
407.00 > 262.90	9.877	9.877	0.0		54073	0.001059		106	1542	
19 PS Acid										
443.00 > 146.90	9.877	9.877	0.0		13693	0.001019		102	394	
21 TAF										
442.90 > 85.00	10.374	10.374	0.0		5041	0.000876		87.6	55.4	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD1\_00060

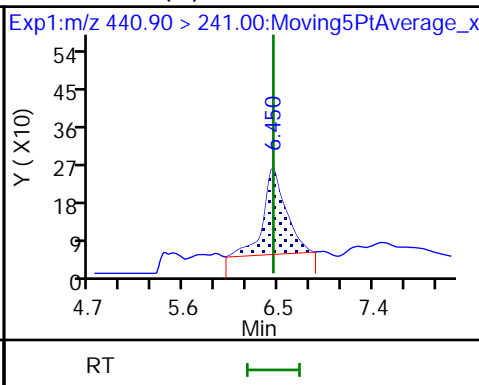
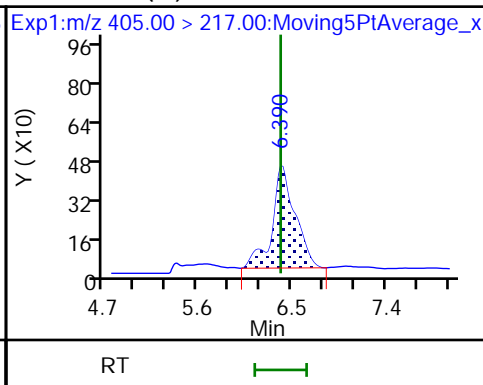
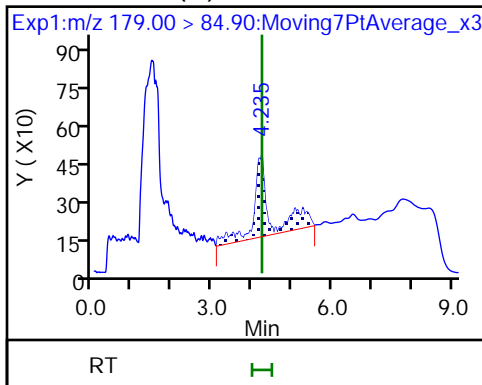
Amount Added: 1.00

Units: mL

1 PFMOAA (M)

2 R-EVE (M)

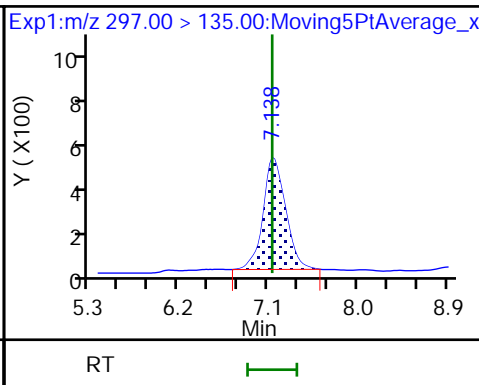
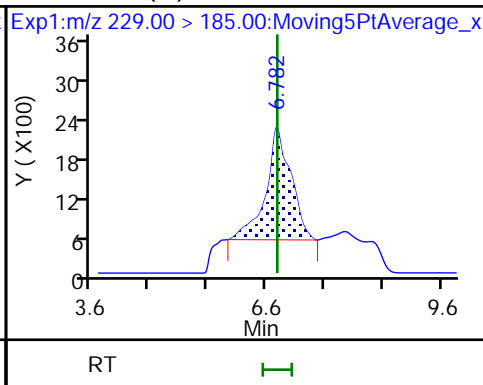
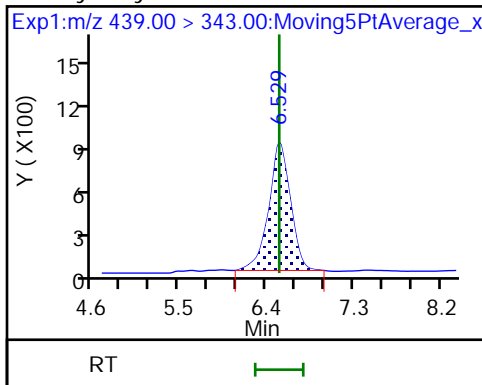
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA (M)

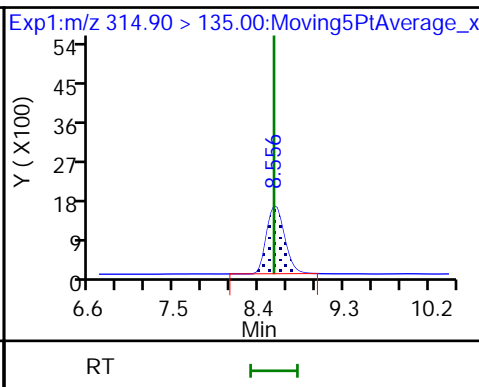
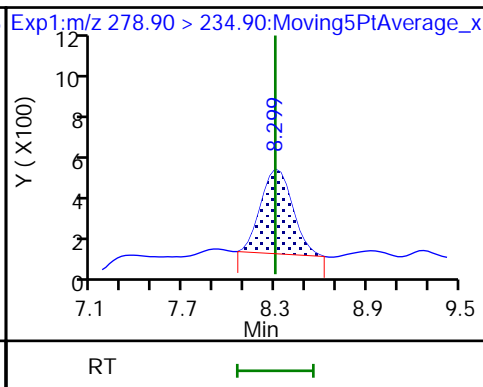
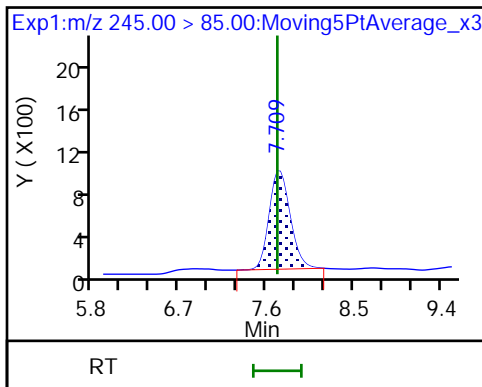
5 NVHOS



6 PFO2HxA

22 PEPA

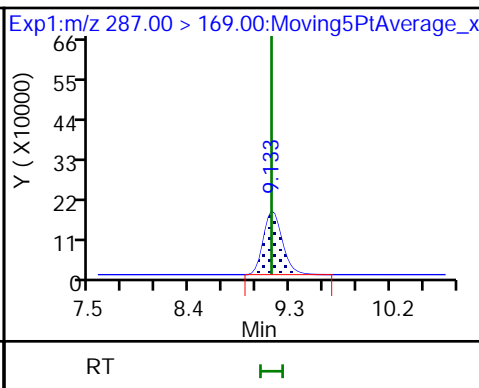
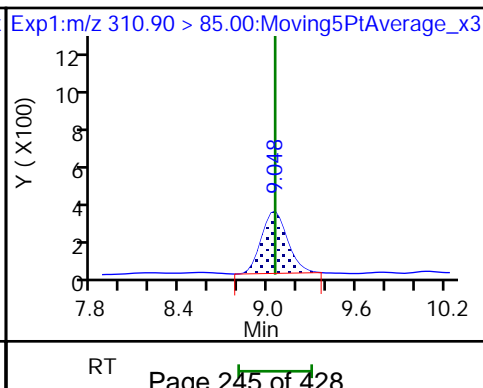
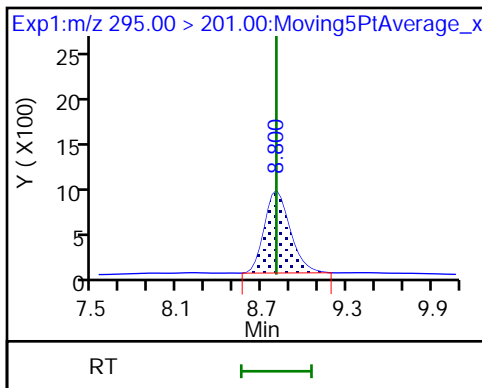
7 PES

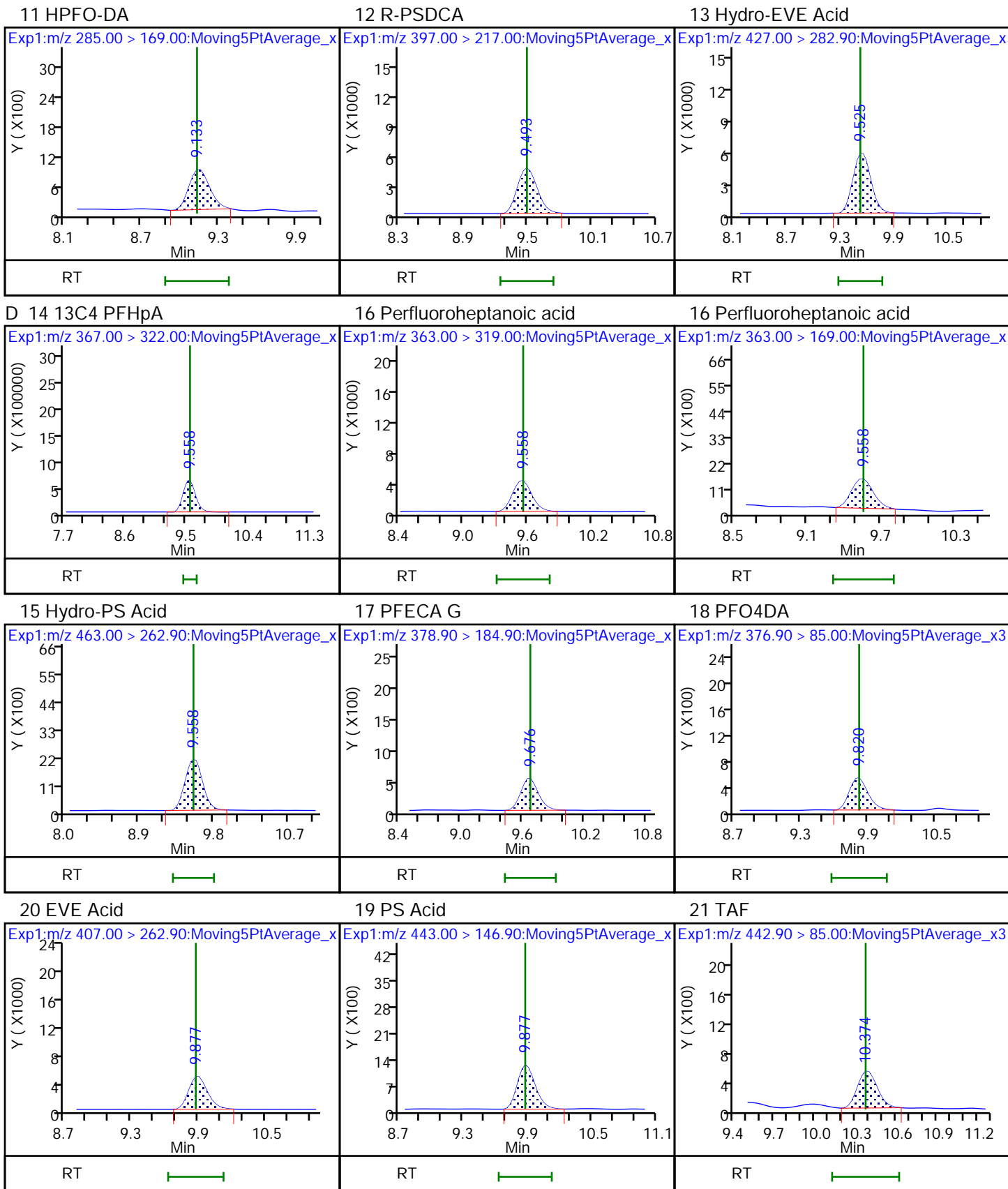


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

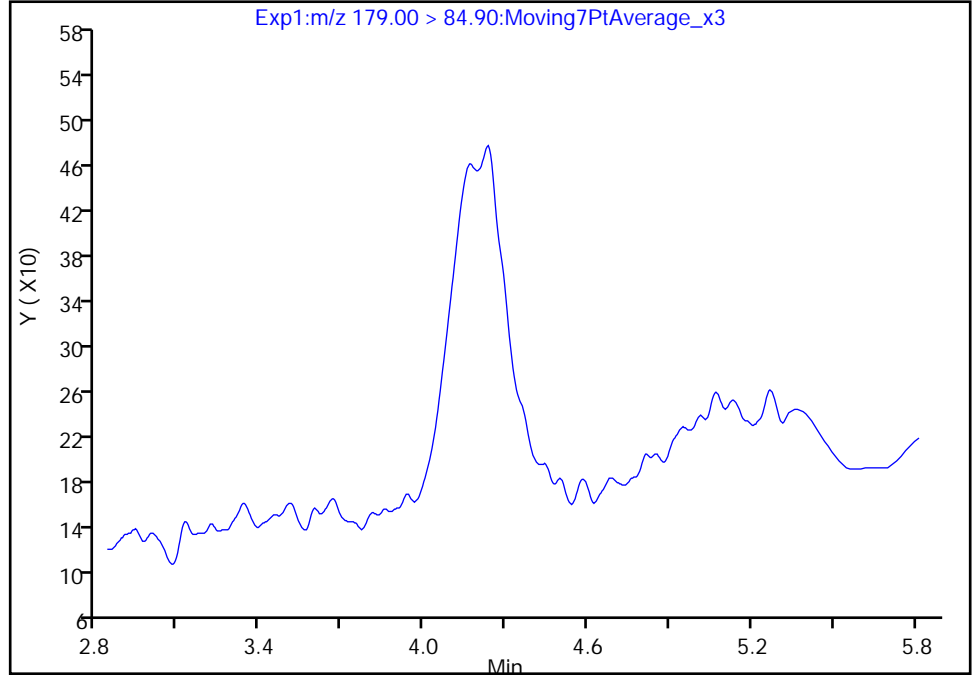
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_006.d  
Injection Date: 11-Mar-2021 12:14:59 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

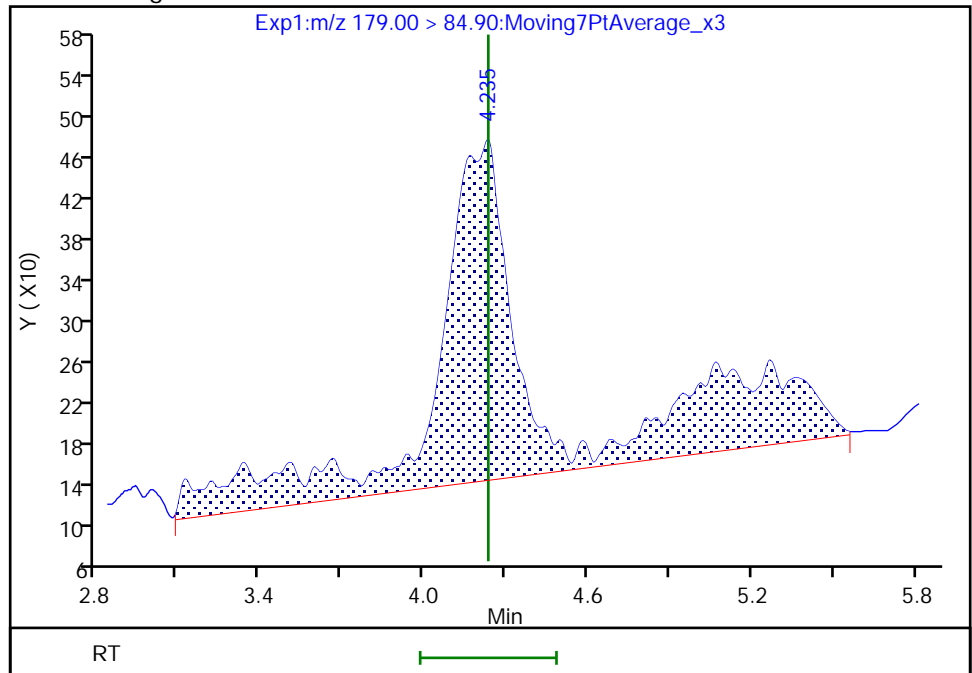
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 4.24  
Area: 9219  
Amount: 0.000891  
Amount Units: ng/ml



Reviewer: yuj, 12-Mar-2021 11:30:50  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 248 of 428

Eurofins TestAmerica, Sacramento

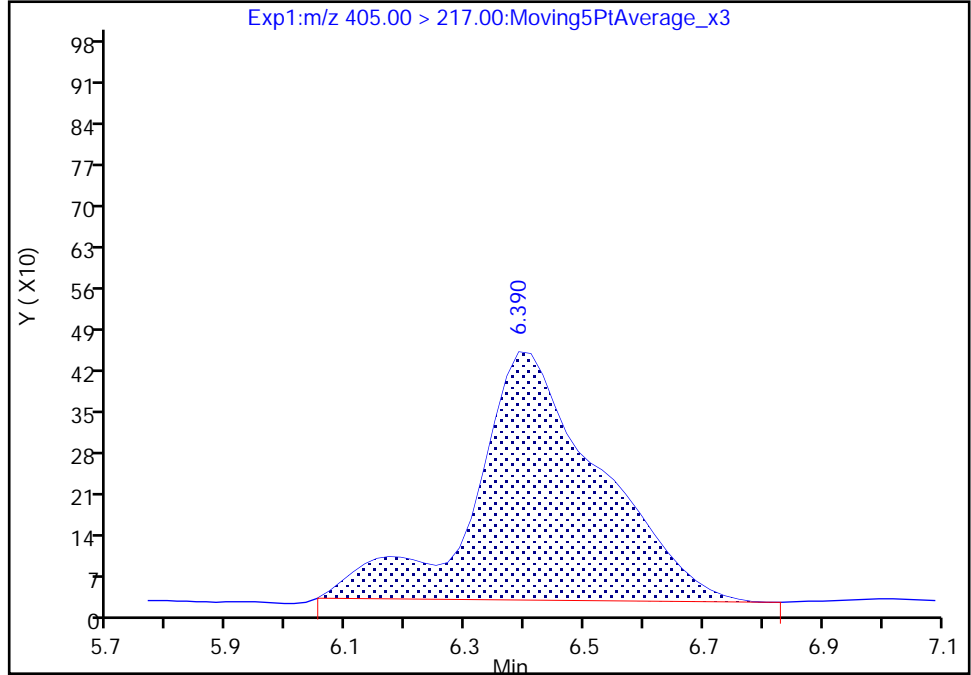
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Injection Date: 11-Mar-2021 12:14:59 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

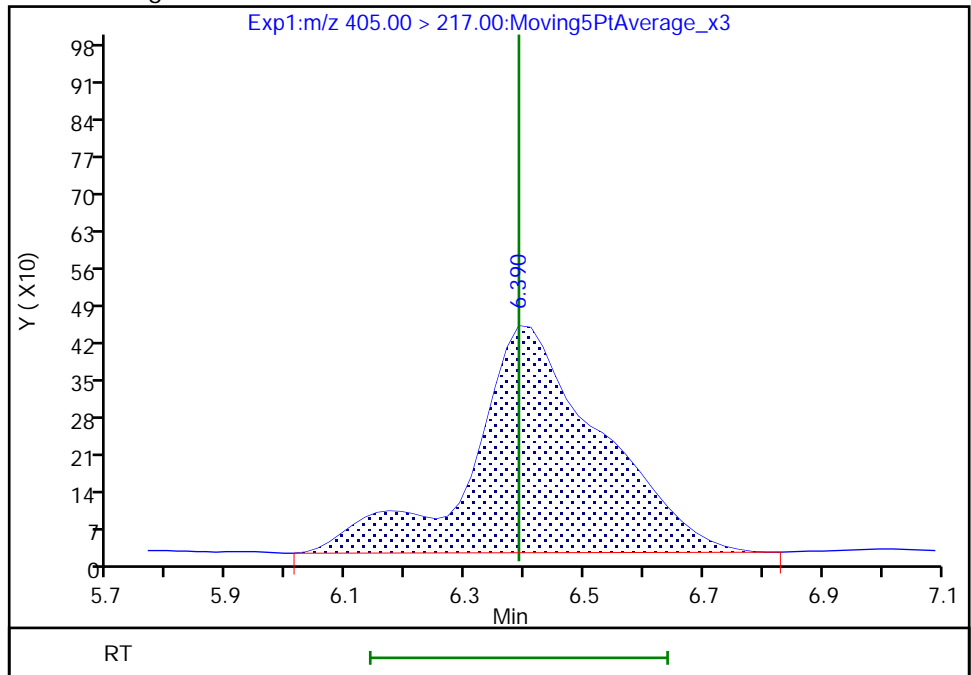
RT: 6.39  
Area: 6235  
Amount: 0.000944  
Amount Units: ng/ml

Processing Integration Results



RT: 6.39  
Area: 6451  
Amount: 0.000973  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 12-Mar-2021 11:31:09  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

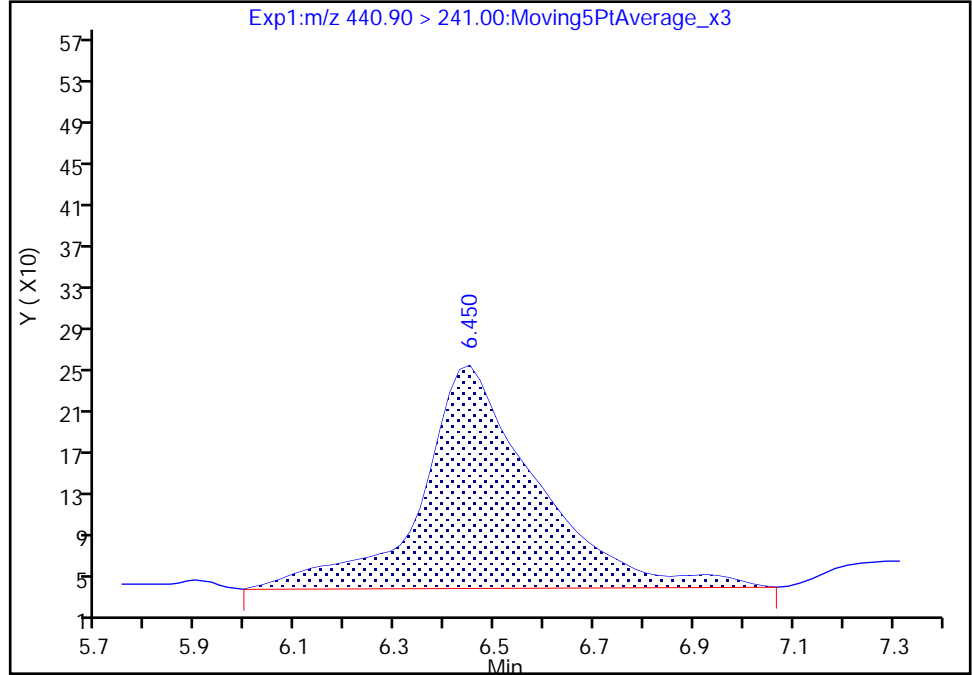
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Injection Date: 11-Mar-2021 12:14:59 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

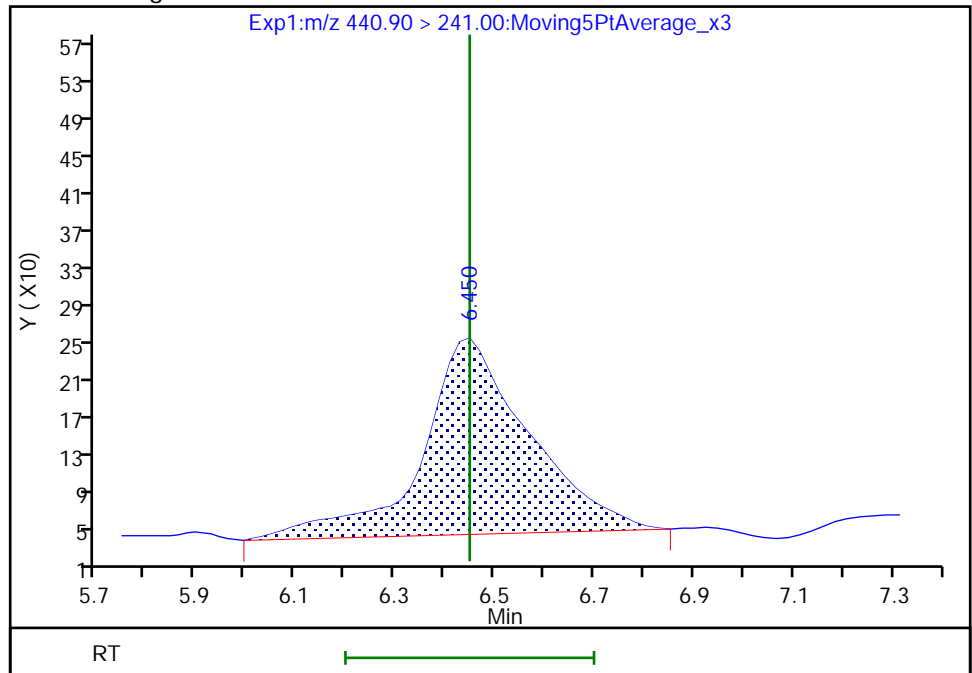
RT: 6.45  
Area: 3479  
Amount: 0.001047  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
Area: 3111  
Amount: 0.000947  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 12-Mar-2021 11:31:14  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

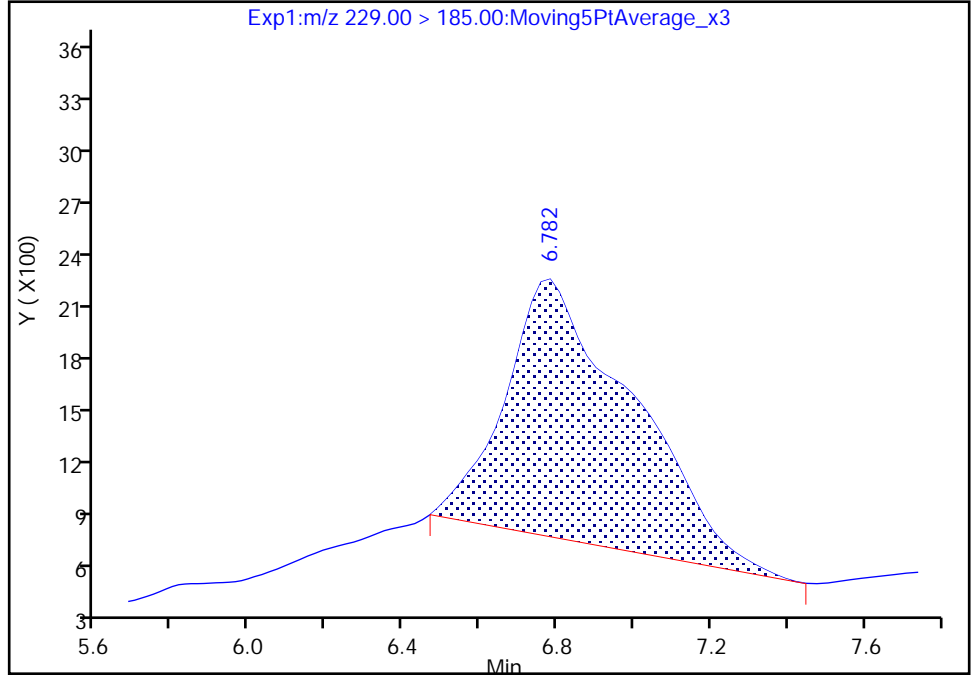
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Injection Date: 11-Mar-2021 12:14:59 Instrument ID: A12  
Lims ID: IC STD 1  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 6 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

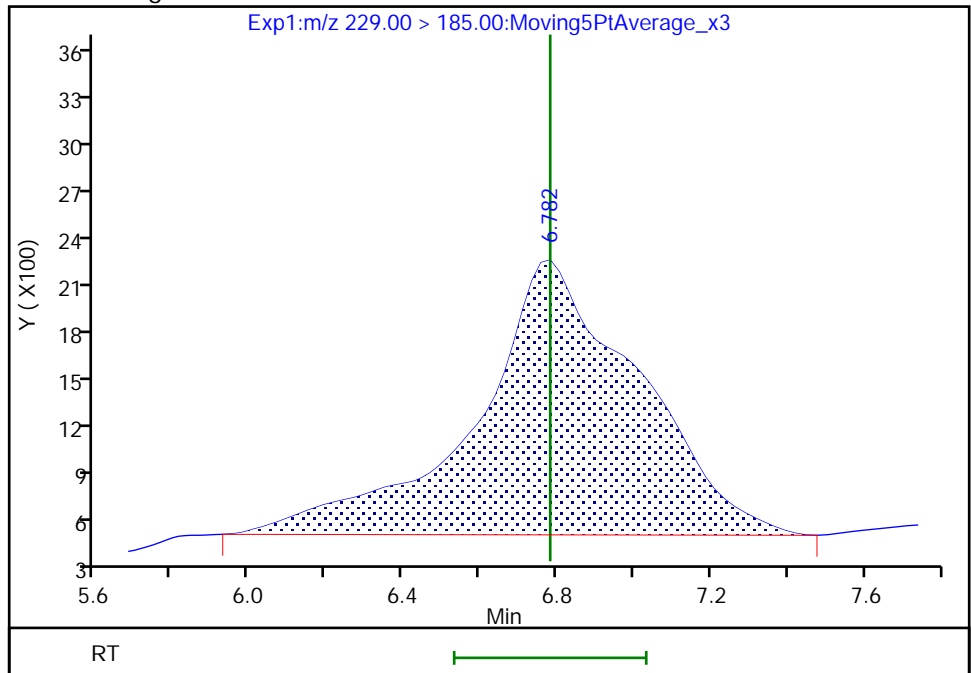
RT: 6.78  
Area: 33692  
Amount: 0.000894  
Amount Units: ng/ml

Processing Integration Results



RT: 6.78  
Area: 50687  
Amount: 0.001017  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 12-Mar-2021 11:31:20  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_007.d  
 Lims ID: IC STD 2  
 Client ID:  
 Sample Type: IC Calib Level: 2  
 Inject. Date: 11-Mar-2021 12:32:45 ALS Bottle#: 7 Worklist Smp#: 4  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 2 (49)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:51 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: kwongg Date: 11-Mar-2021 17:08:00

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.076	4.235	-0.159		21923	0.002120		84.8	2.5	M
2 R-EVE										
405.00 > 217.00	6.390	6.390	0.0		15429	0.002327		93.1	212	
3 R-PSDA										M
440.90 > 241.00	6.430	6.450	-0.020		8160	0.002484		99.3	79.3	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.530	6.529	0.001		31009	0.002422		96.9	629	
23 PMPA										M
229.00 > 185.00	6.759	6.782	-0.023		81343	0.002620		105	108	M
5 NVHOS										M
297.00 > 135.00	7.138	7.138	0.0		16282	0.002228		89.1	332	M
6 PFO2HxA										
245.00 > 85.00	7.710	7.709	0.001		35582	0.002307		92.3	466	
22 PEPA										
278.90 > 234.90	8.300	8.299	0.001		15222	0.002284		91.4	117	
7 PES										
314.90 > 135.00	8.557	8.556	0.001		53728	0.002220		88.8	1362	
8 PFECA B										
295.00 > 201.00	8.800	8.800	0.0		28030	0.002475		99.0	745	
9 PFO3OA										
310.90 > 85.00	9.049	9.048	0.001		10326	0.002125		85.0	281	
11 HPFO-DA										
285.00 > 169.00	9.133	9.133	0.0	1.000	20648	0.002281		91.2	256	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.133	9.133	0.0		2050684	0.2635		105	35304	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.493	9.493	0.0		127265	0.002352		94.1	3353	
13 Hydro-EVE Acid										
427.00 > 282.90	9.526	9.525	0.001		194717	0.002559		102	2306	
D 14 13C4 PFHpA										
367.00 > 322.00	9.558	9.558	0.0		7007270	0.2863		115	93198	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.558	9.558	0.0	1.000	91555	0.002379	Target=0.00	95.2	1054	
363.00 > 169.00	9.558	9.558	0.0	1.000	28054		3.26(0.00-0.00)	95.2	205	
15 Hydro-PS Acid										
463.00 > 262.90	9.558	9.558	0.0		77921	0.002485		99.4	1786	
17 PFECA G										
378.90 > 184.90	9.673	9.676	-0.003		15354	0.002596		104	440	
18 PFO4DA										
376.90 > 85.00	9.816	9.820	-0.004		16897	0.002579		103	486	
20 EVE Acid										
407.00 > 262.90	9.903	9.877	0.025		127455	0.002497		99.9	3621	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		34498	0.002568		103	993	
21 TAF										
442.90 > 85.00	10.396	10.374	0.022		15061	0.002617		105	162	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD2\_00048

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_007.d

Injection Date: 11-Mar-2021 12:32:45

Instrument ID: A12

Lims ID: IC STD 2

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 7

Worklist Smp#: 4

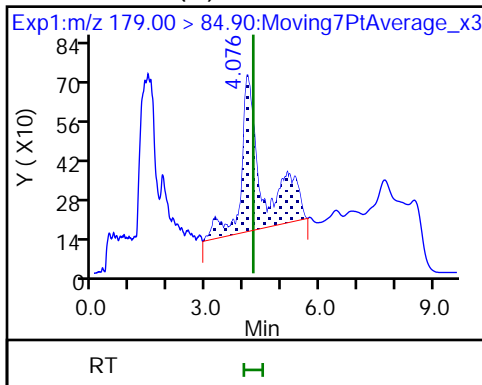
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

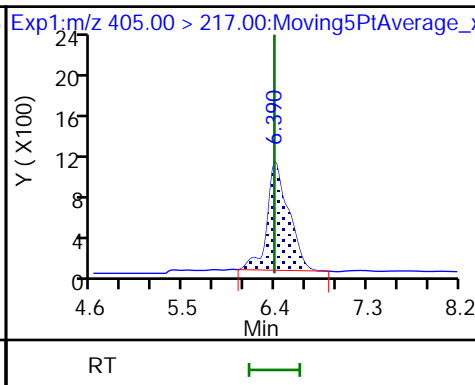
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

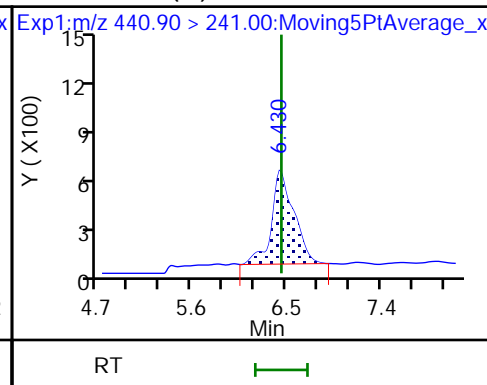
1 PFMOAA (M)



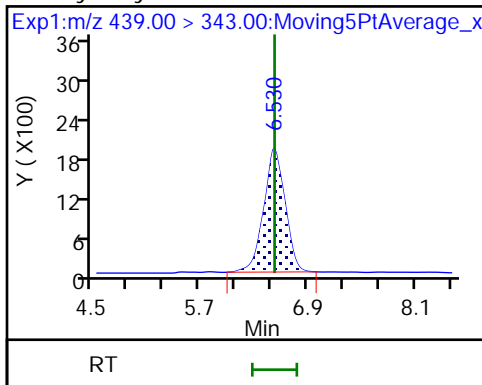
2 R-EVE



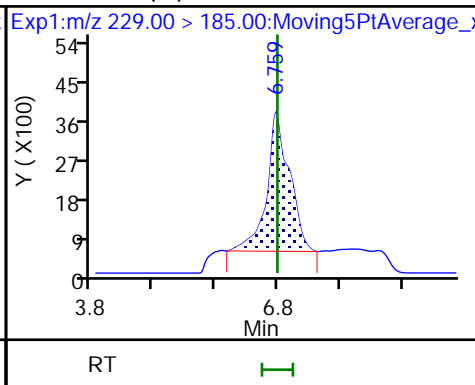
3 R-PSDA (M)



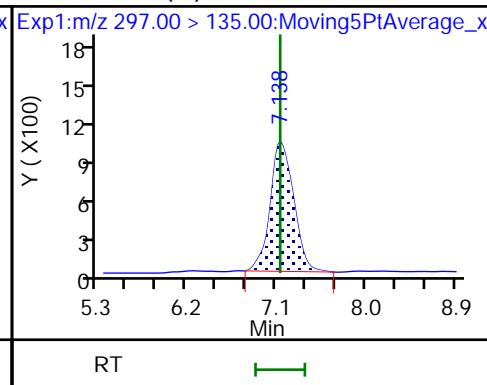
4 Hydrolyzed PSDA



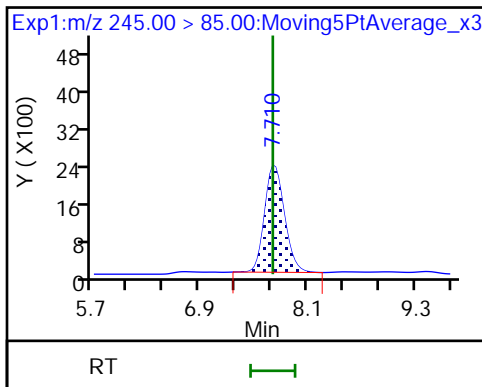
23 PMPA (M)



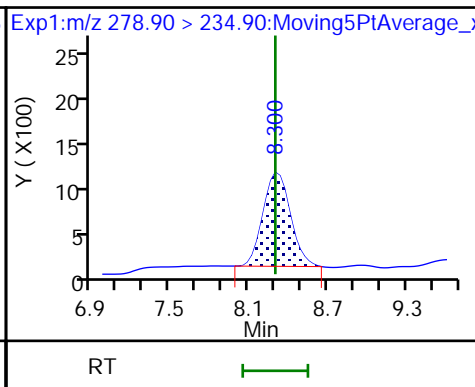
5 NVHOS (M)



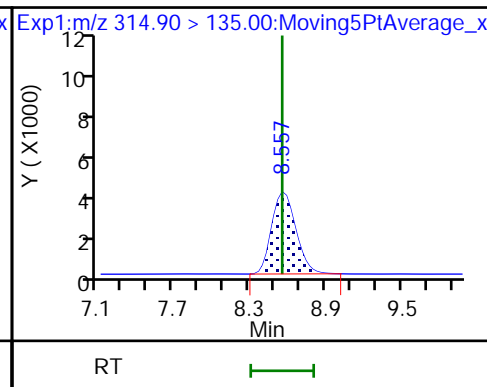
6 PFO2HxA



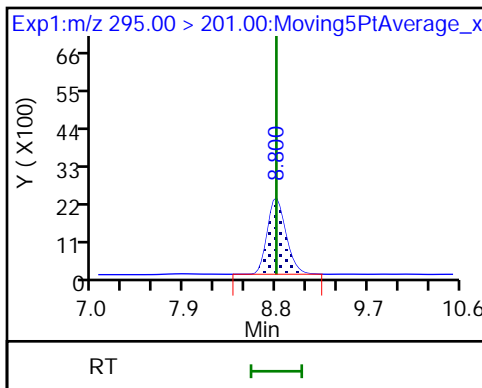
22 PEPA



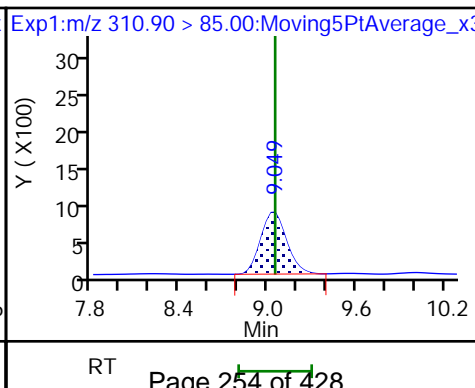
7 PES



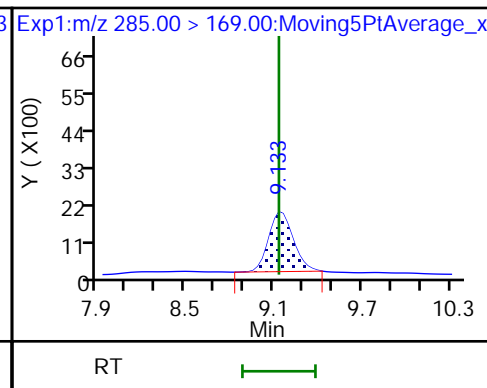
8 PFECA B



9 PFO3OA



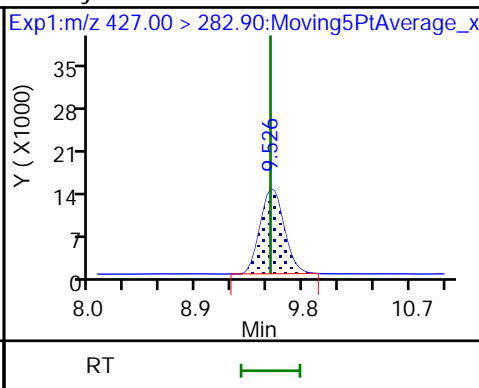
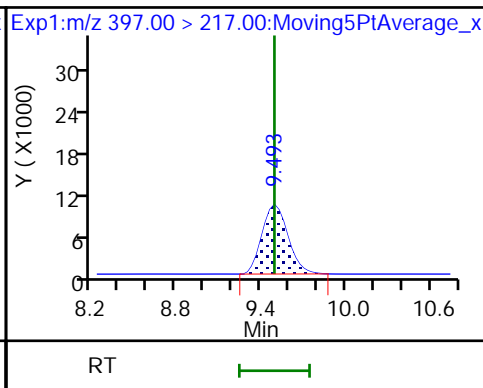
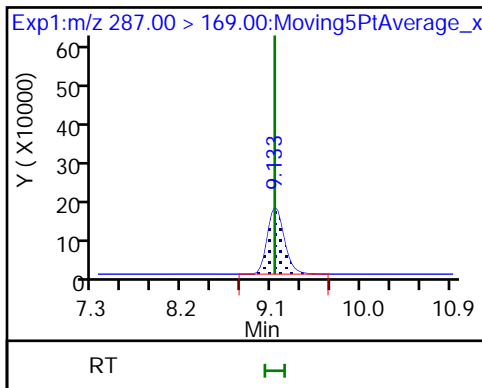
11 HPFO-DA



D 10 13C3 HFPO-DA

12 R-PSDCA

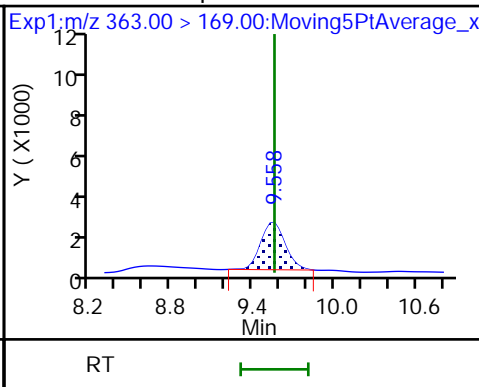
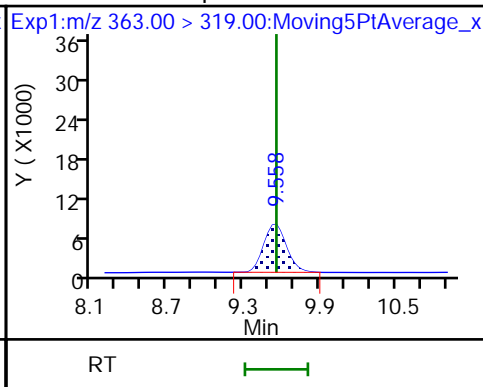
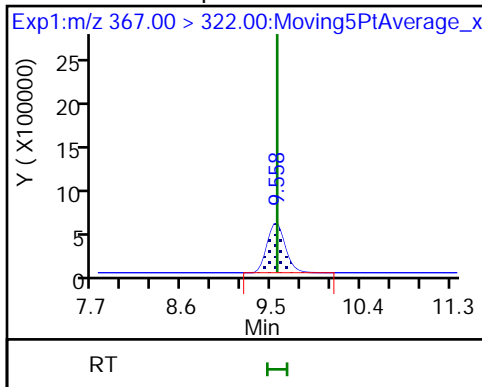
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

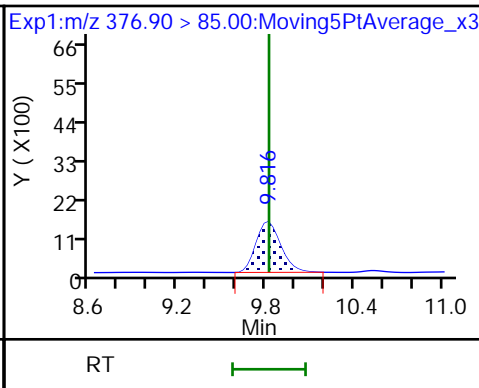
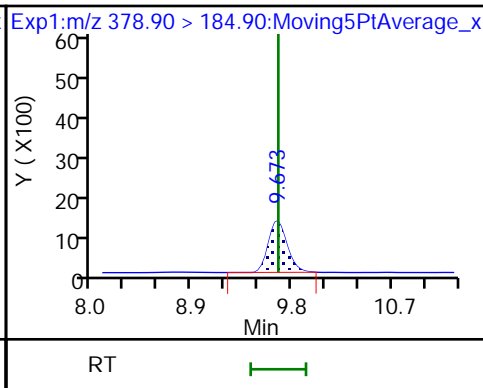
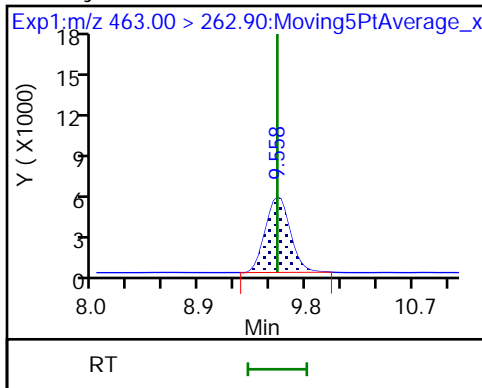
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

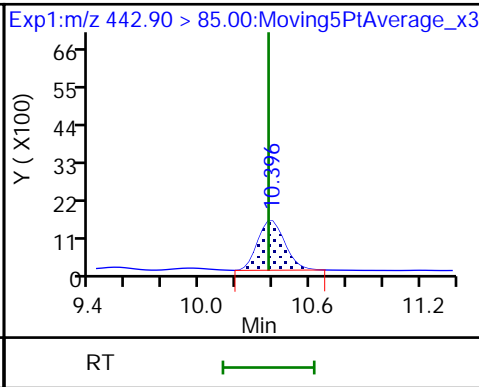
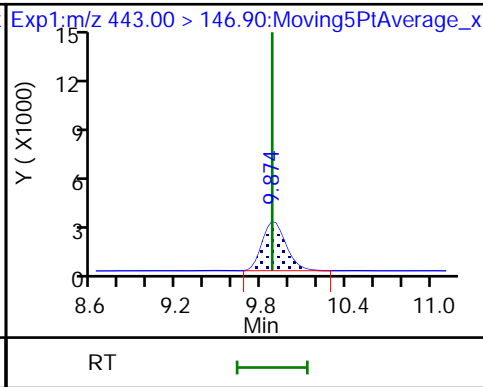
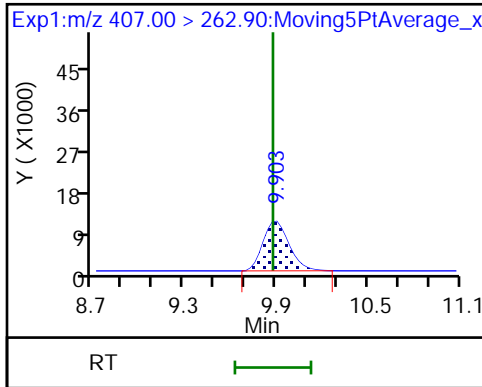
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

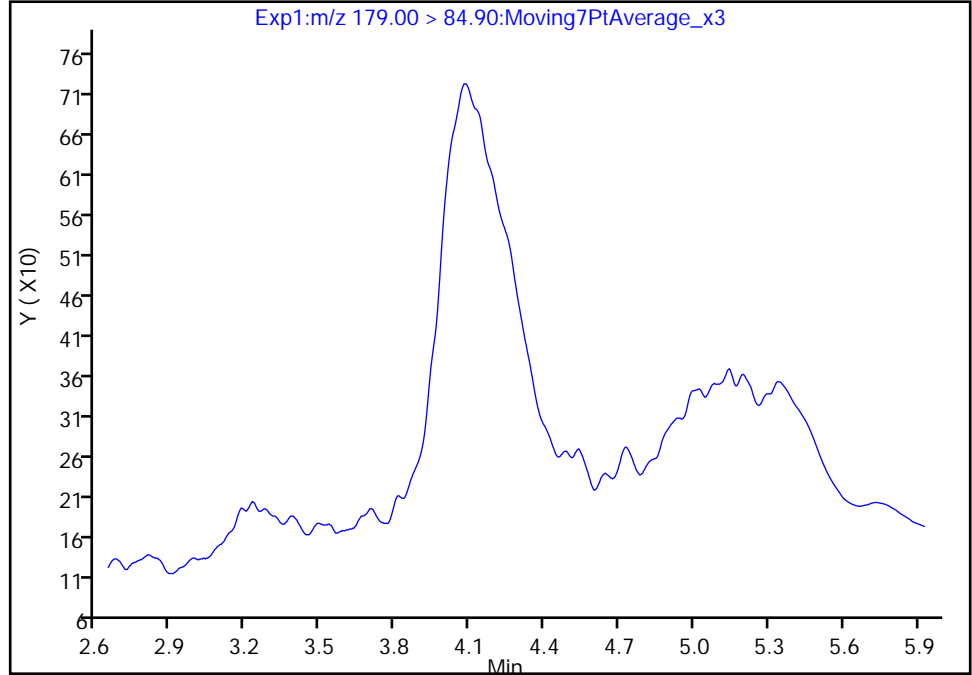
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Injection Date: 11-Mar-2021 12:32:45 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

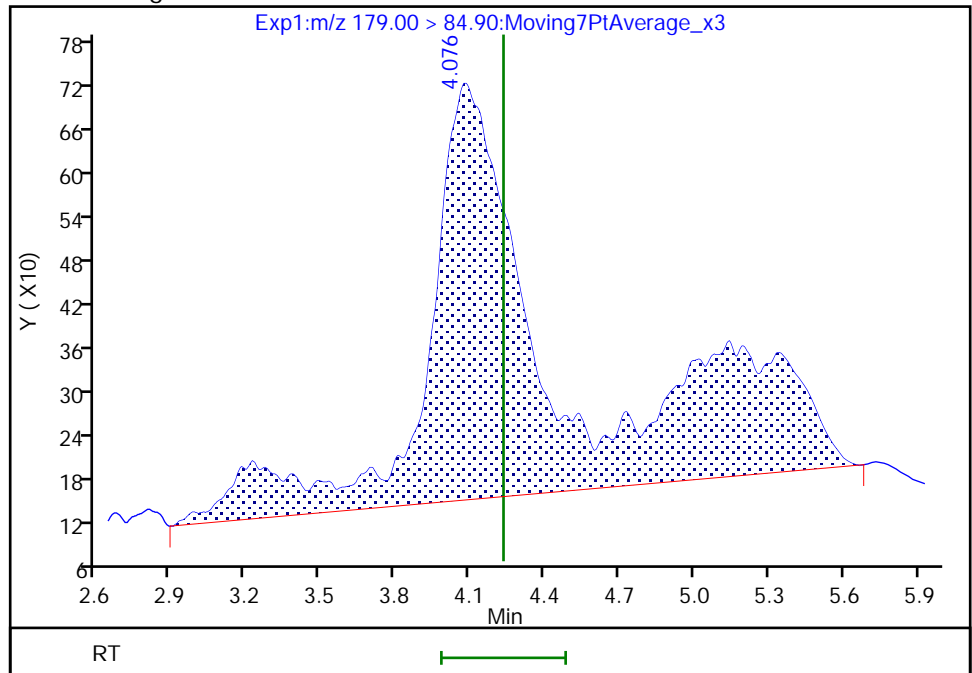
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 21923  
Amount: 0.002120  
Amount Units: ng/ml



Reviewer: yuj, 11-Mar-2021 15:44:42  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
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Eurofins TestAmerica, Sacramento

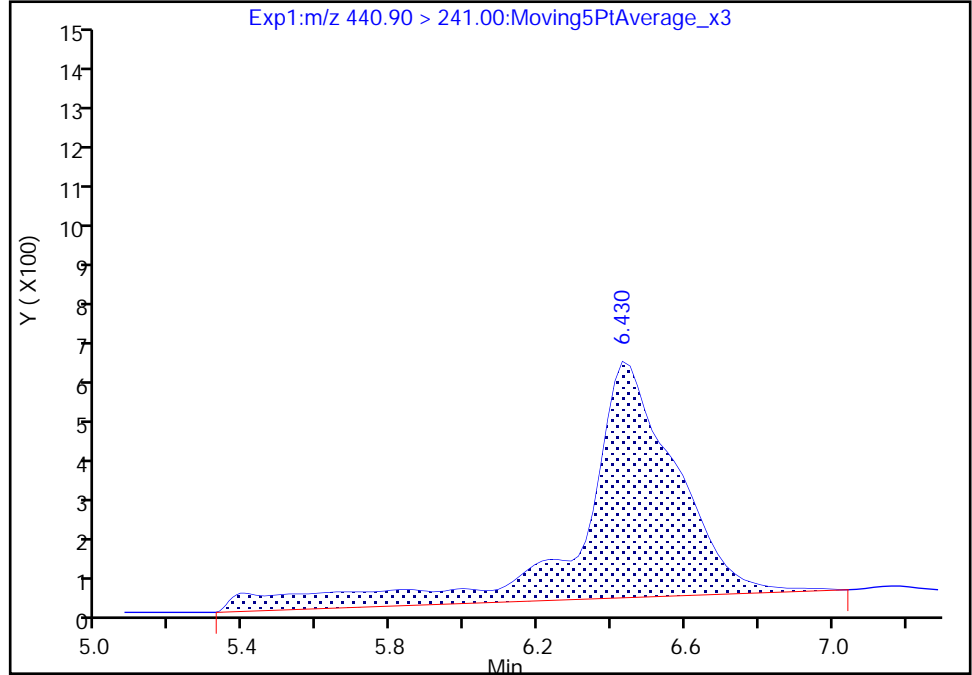
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Injection Date: 11-Mar-2021 12:32:45 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

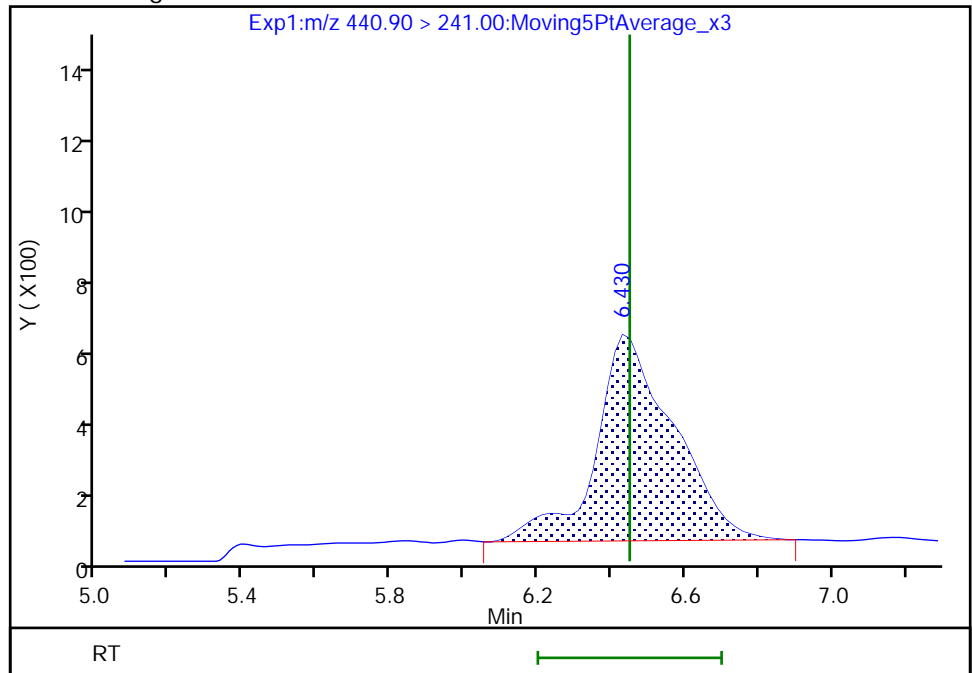
RT: 6.43  
Area: 10637  
Amount: 0.002888  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 8160  
Amount: 0.002484  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:40:12  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

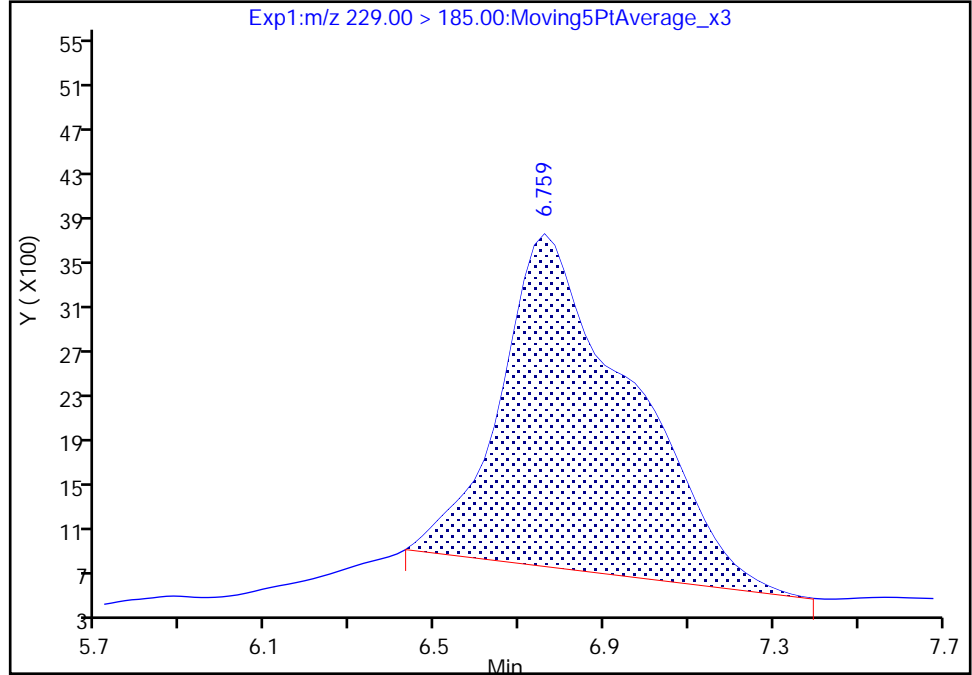
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_007.d  
Injection Date: 11-Mar-2021 12:32:45 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

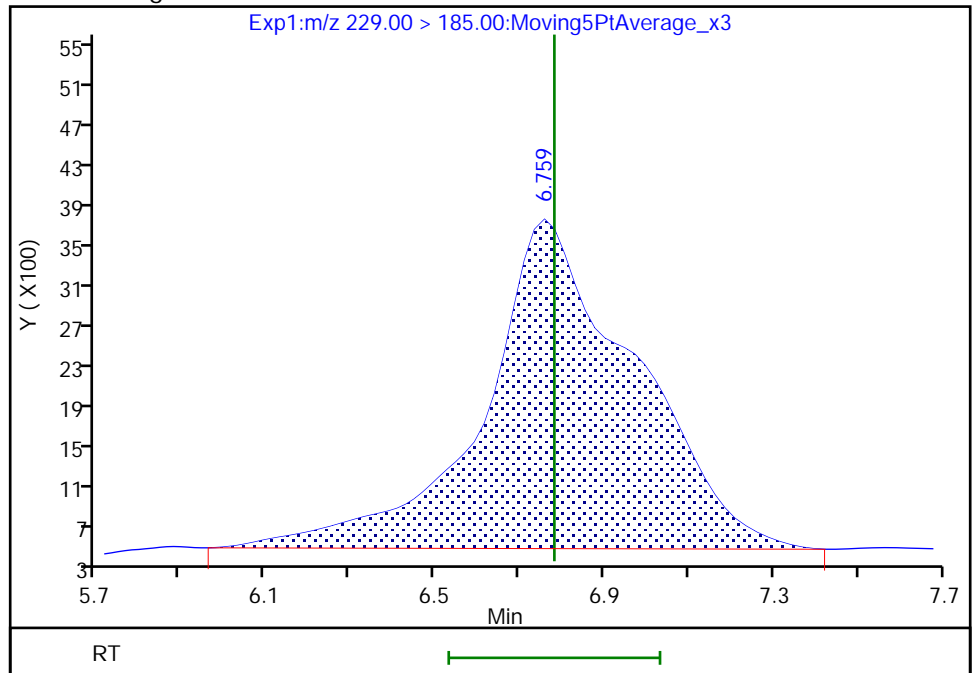
RT: 6.76  
Area: 63962  
Amount: 0.001677  
Amount Units: ng/ml

Processing Integration Results



RT: 6.76  
Area: 81343  
Amount: 0.002620  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:40:19  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 259 of 428

Eurofins TestAmerica, Sacramento

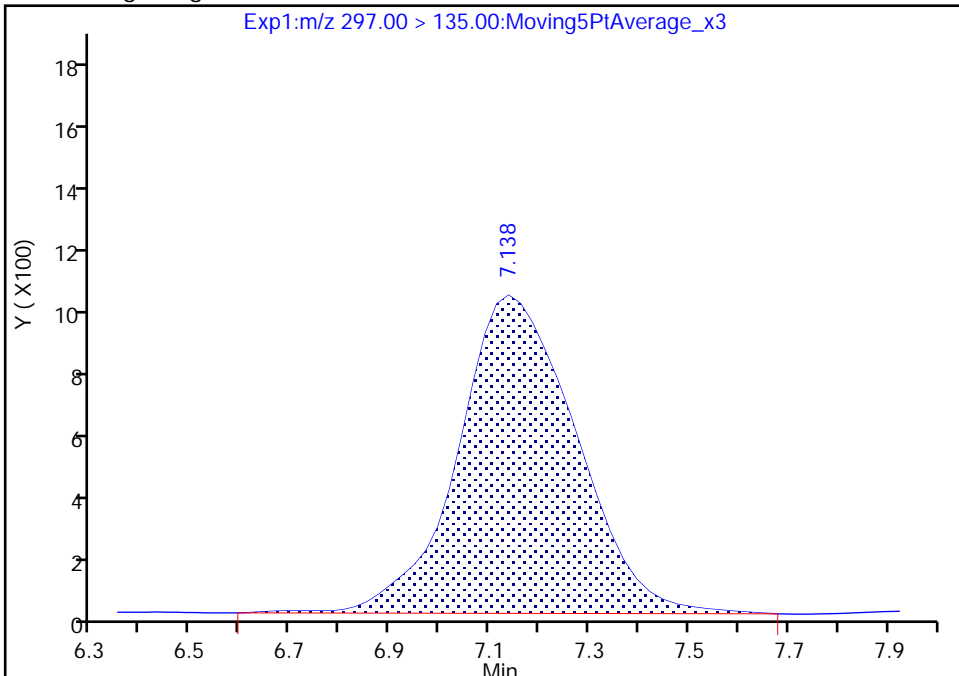
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_007.d  
Injection Date: 11-Mar-2021 12:32:45 Instrument ID: A12  
Lims ID: IC STD 2  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 7 Worklist Smp#: 4  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

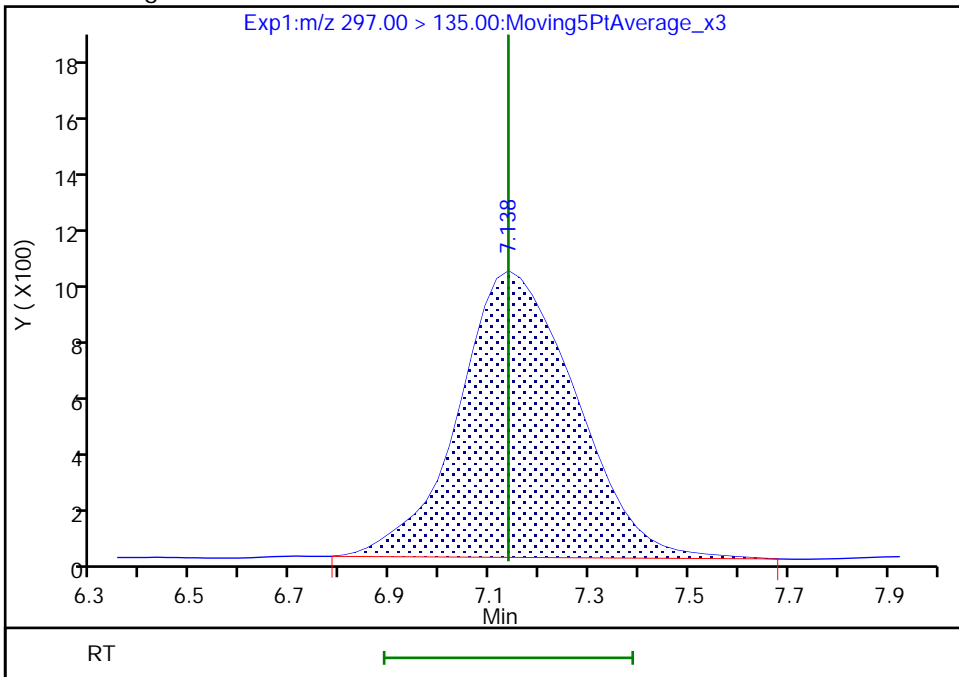
RT: 7.14  
Area: 16513  
Amount: 0.002358  
Amount Units: ng/ml

Processing Integration Results



RT: 7.14  
Area: 16282  
Amount: 0.002228  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:40:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_008.d  
 Lims ID: IC STD 3  
 Client ID:  
 Sample Type: IC Calib Level: 3  
 Inject. Date: 11-Mar-2021 12:50:20 ALS Bottle#: 8 Worklist Smp#: 5  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 3 (49)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:52 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 15:41:23

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.296	4.235	0.061		50710	0.004904		98.1	13.6	M
2 R-EVE										
405.00 > 217.00	6.410	6.390	0.020		32328	0.004876		97.5	461	
3 R-PSDA										M
440.90 > 241.00	6.450	6.450	0.0		15251	0.004642		92.8	167	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.530	6.529	0.001		60209	0.004703		94.1	1288	
23 PMPA										M
229.00 > 185.00	6.807	6.782	0.025		114576	0.004357		87.1	175	M
5 NVHOS										
297.00 > 135.00	7.162	7.138	0.024		34724	0.004752		95.0	852	
6 PFO2HxA										
245.00 > 85.00	7.741	7.709	0.032		74175	0.004808		96.2	904	
22 PEPA										
278.90 > 234.90	8.336	8.299	0.037		29652	0.004449		89.0	233	
7 PES										
314.90 > 135.00	8.557	8.556	0.001		105328	0.004352		87.0	2691	
8 PFECA B										
295.00 > 201.00	8.800	8.800	0.0		54087	0.004776		95.5	1101	
9 PFO3OA										
310.90 > 85.00	9.049	9.048	0.001		23087	0.004750		95.0	648	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.133	9.133	0.0		1950335	0.2506		100	28026	
11 HPFO-DA										
285.00 > 169.00	9.133	9.133	0.0	1.000	38622	0.004487		89.7	550	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.493	9.493	0.0		271764	0.005022		100	7184	
13 Hydro-EVE Acid										
427.00 > 282.90	9.526	9.525	0.001		363314	0.004775		95.5	4271	
D 14 13C4 PFHpA										
367.00 > 322.00	9.558	9.558	0.0		6917544	0.2827		113	79425	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.558	9.558	0.0	1.000	185376	0.005297	Target=0.00	106	2139	
363.00 > 169.00	9.558	9.558	0.0	1.000	47787		3.88(0.00-0.00)	106	355	
15 Hydro-PS Acid										
463.00 > 262.90	9.558	9.558	0.0		155251	0.004951		99.0	3555	
17 PFECA G										
378.90 > 184.90	9.673	9.676	-0.003		28472	0.004813		96.3	813	
18 PFO4DA										
376.90 > 85.00	9.817	9.820	-0.003		29800	0.004549		91.0	856	
20 EVE Acid										
407.00 > 262.90	9.903	9.877	0.026		261350	0.005121		102	7450	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		64826	0.004826		96.5	1857	
21 TAF										
442.90 > 85.00	10.396	10.374	0.022		25157	0.004371		87.4	269	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD3\_00048

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_008.d

Injection Date: 11-Mar-2021 12:50:20

Instrument ID: A12

Lims ID: IC STD 3

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 8

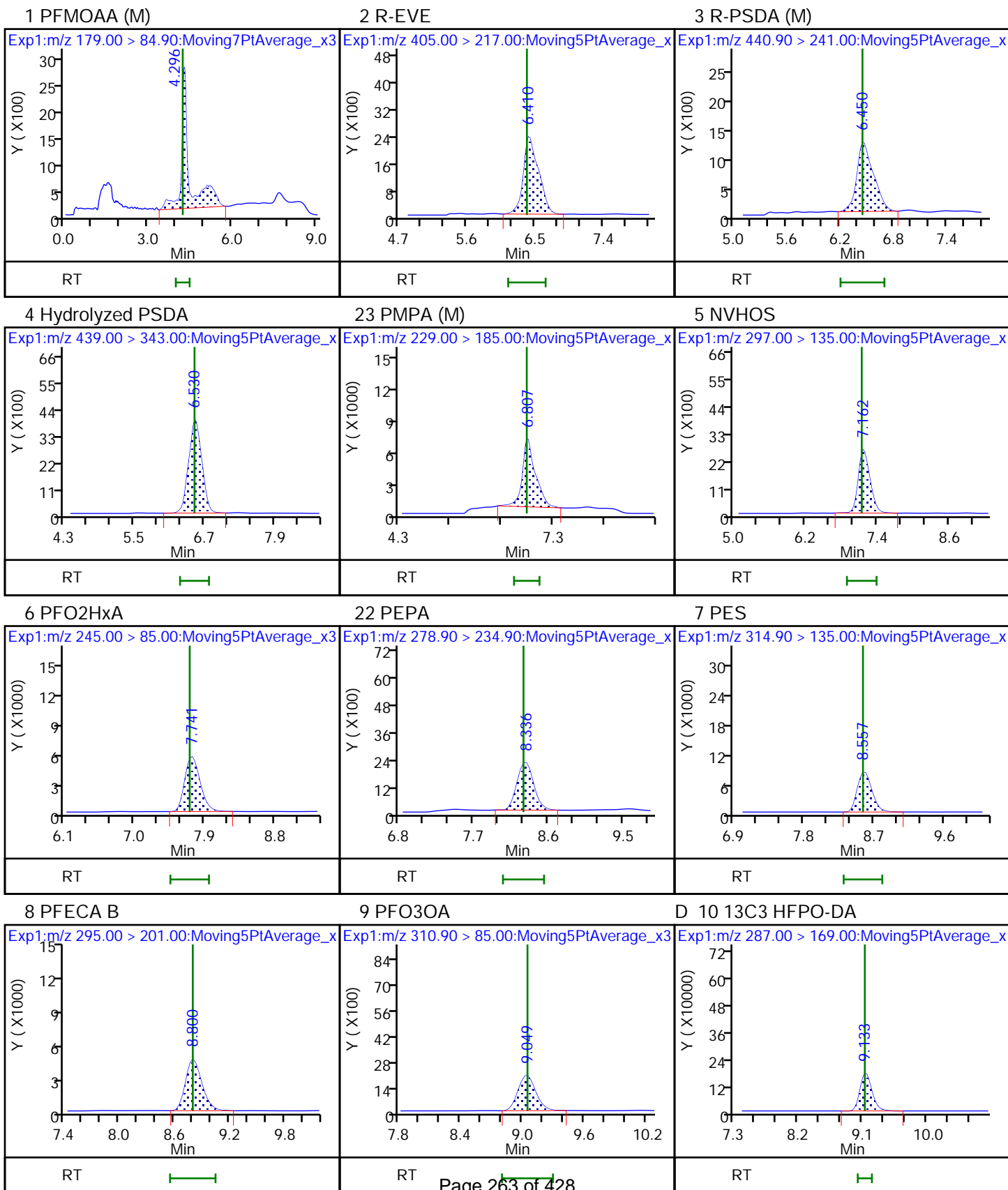
Worklist Smp#: 5

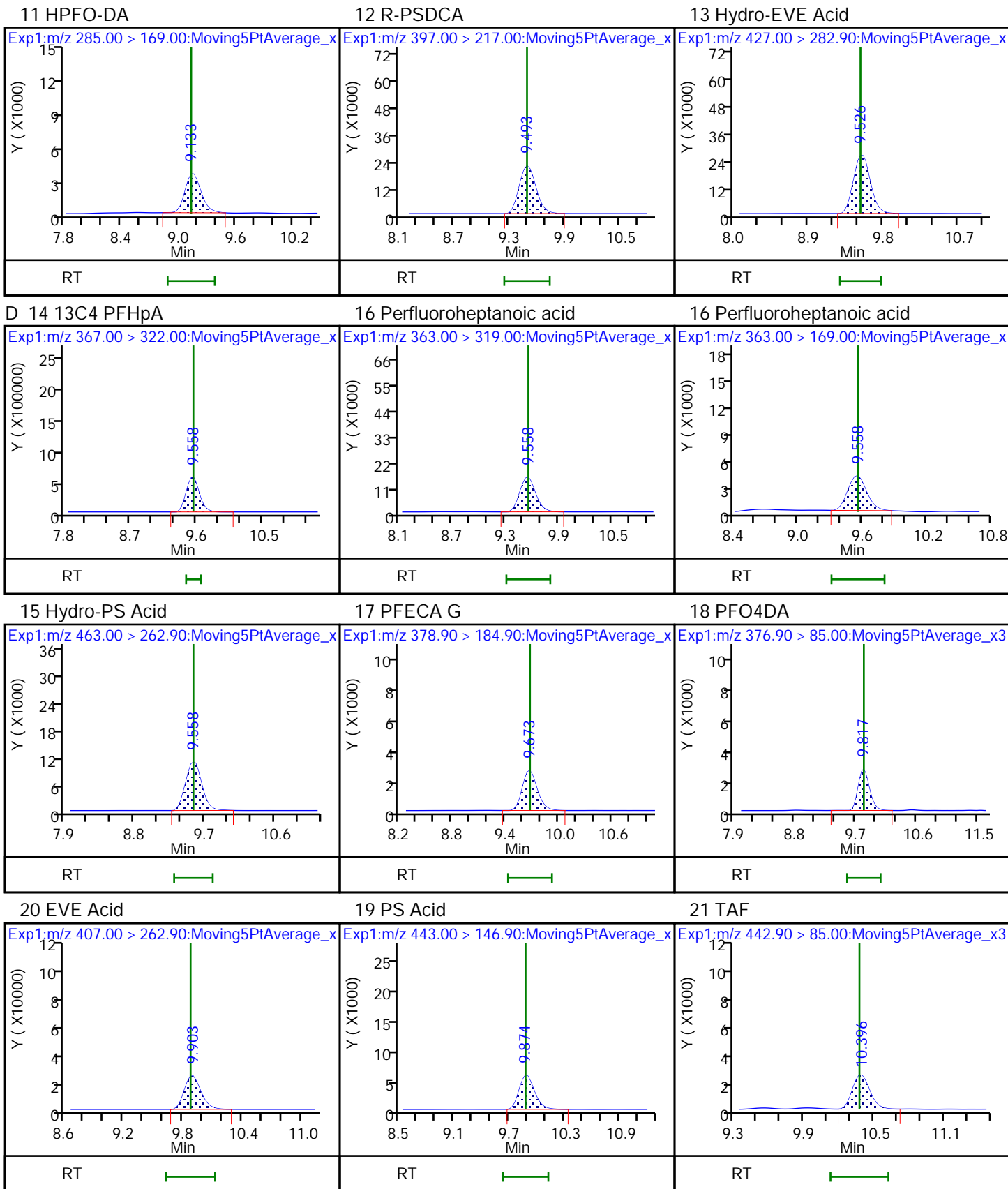
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

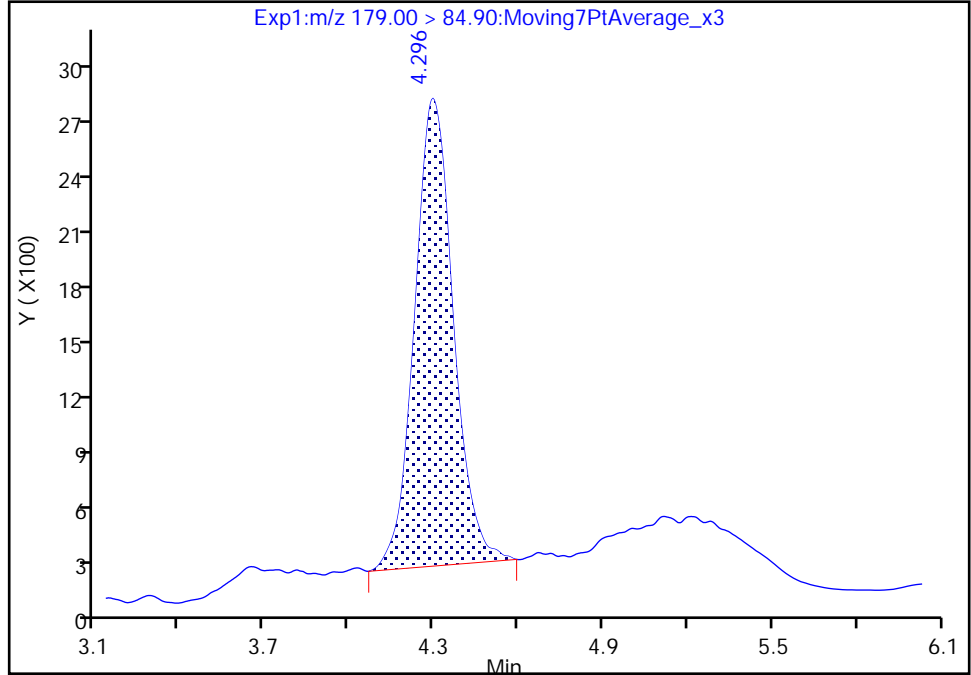
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Injection Date: 11-Mar-2021 12:50:20 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

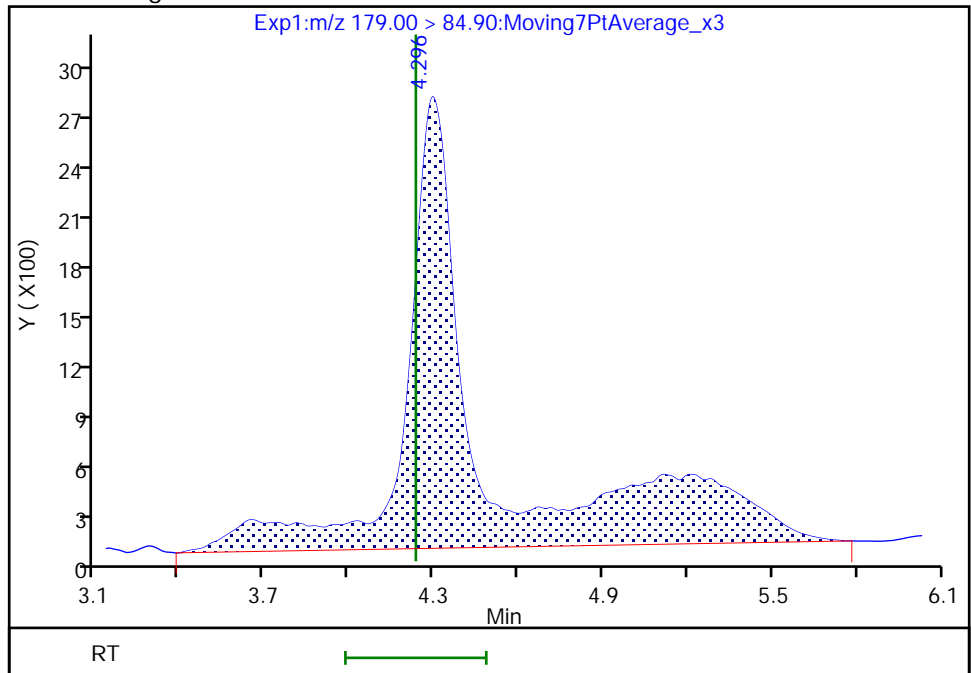
RT: 4.30  
Area: 23543  
Amount: 0.003632  
Amount Units: ng/ml

Processing Integration Results



RT: 4.30  
Area: 50710  
Amount: 0.004904  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:41:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

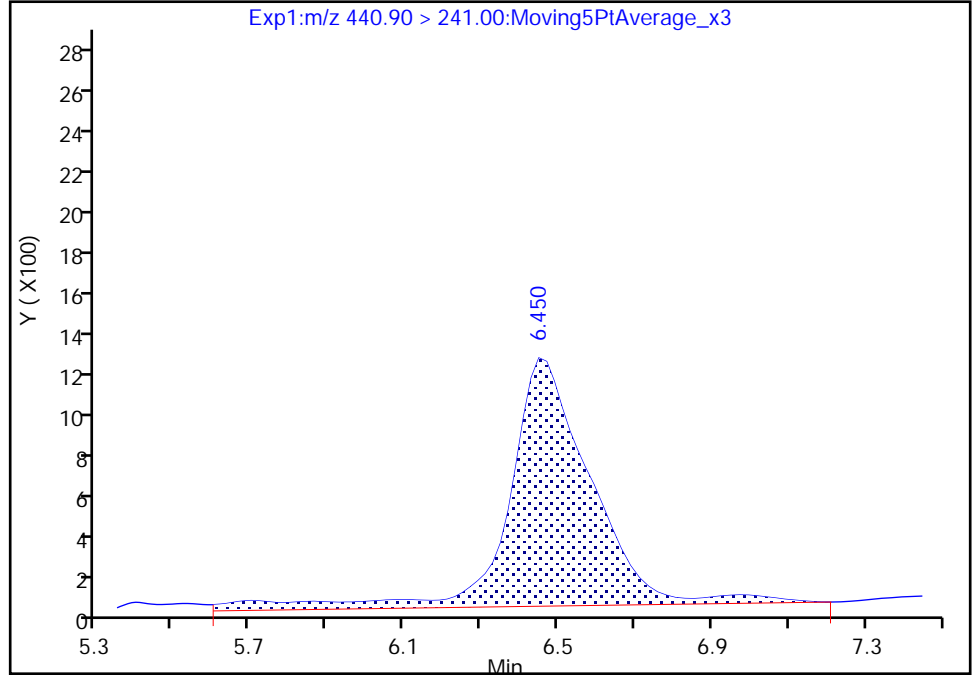
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_008.d  
Injection Date: 11-Mar-2021 12:50:20 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

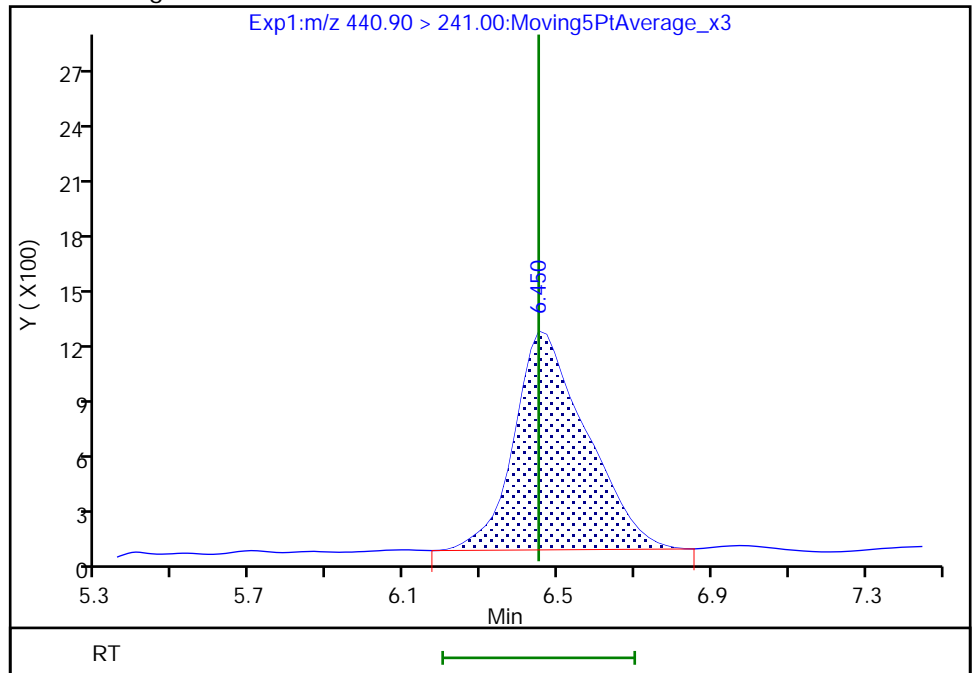
RT: 6.45  
Area: 18265  
Amount: 0.005691  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
Area: 15251  
Amount: 0.004642  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:42:13  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

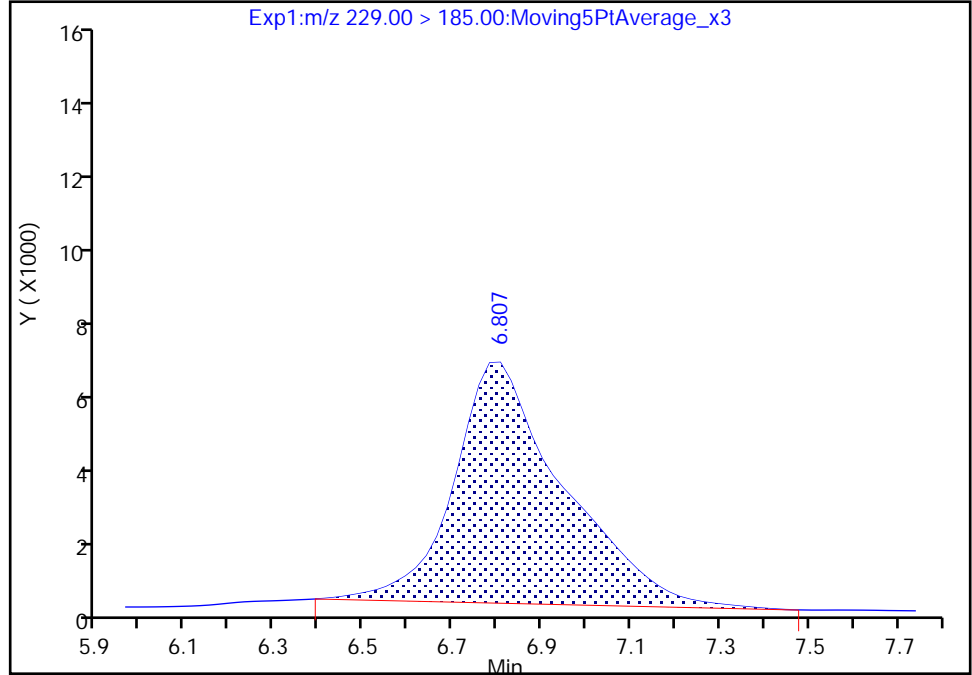
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Injection Date: 11-Mar-2021 12:50:20 Instrument ID: A12  
Lims ID: IC STD 3  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 5  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

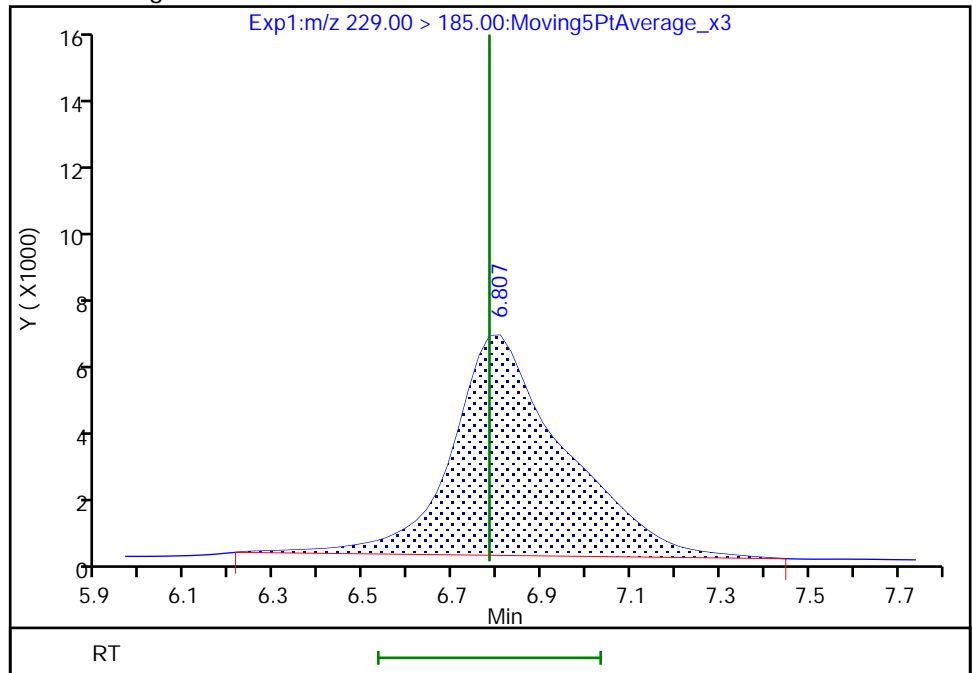
RT: 6.81  
Area: 110262  
Amount: 0.003509  
Amount Units: ng/ml

Processing Integration Results



RT: 6.81  
Area: 114576  
Amount: 0.004357  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:46:28  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_009.d  
 Lims ID: IC STD 4  
 Client ID:  
 Sample Type: IC Calib Level: 4  
 Inject. Date: 11-Mar-2021 13:07:56 ALS Bottle#: 9 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 4 (48)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:54 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 15:43:14

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.642	4.235	-0.593		93270	0.009019		90.2	7.1	M
2 R-EVE										M
405.00 > 217.00	6.287	6.390	-0.103		60366	0.009106		91.1	570	M
3 R-PSDA										M
440.90 > 241.00	6.347	6.450	-0.103		28396	0.008643		86.4	206	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.446	6.529	-0.083		115120	0.008993		89.9	1700	
23 PMPA										M
229.00 > 185.00	6.684	6.782	-0.098		207214	0.009200		92.0	231	M
5 NVHOS										M
297.00 > 135.00	7.087	7.138	-0.051		63199	0.008650		86.5	947	M
6 PFO2HxA										
245.00 > 85.00	7.706	7.709	-0.003		141071	0.009145		91.5	1361	
22 PEPA										
278.90 > 234.90	8.295	8.299	-0.004		61087	0.009167		91.7	401	
7 PES										
314.90 > 135.00	8.555	8.556	-0.001		201224	0.008315		83.1	4988	
8 PFECA B										
295.00 > 201.00	8.797	8.800	-0.003		107847	0.009524		95.2	2839	
9 PFO3OA										
310.90 > 85.00	9.045	9.048	-0.003		41140	0.008465		84.6	1114	
11 HPFO-DA										
285.00 > 169.00	9.130	9.133	-0.003	1.000	79329	0.009115		91.2	1125	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.130	9.133	-0.003		1971732	0.2534		101	33681	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.493	-0.003		529236	0.009780		97.8	13790	
13 Hydro-EVE Acid										
427.00 > 282.90	9.522	9.525	-0.003		707807	0.009303		93.0	8243	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.558	-0.003		6054619	0.2474		99.0	79032	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.558	-0.003	1.000	273774	0.009211	Target=0.00	92.1	2698	
363.00 > 169.00	9.555	9.558	-0.003	1.000	81298		3.37(0.00-0.00)	92.1	584	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.558	-0.003		282814	0.009019		90.2	6344	
17 PFECA G										
378.90 > 184.90	9.673	9.676	-0.003		57734	0.009760		97.6	1621	
18 PFO4DA										
376.90 > 85.00	9.817	9.820	-0.003		60985	0.009309		93.1	1736	
20 EVE Acid										
407.00 > 262.90	9.874	9.877	-0.003		498149	0.009760		97.6	10561	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		123017	0.009158		91.6	3530	
21 TAF										
442.90 > 85.00	10.373	10.374	-0.001		50589	0.008790		87.9	496	

**QC Flag Legend**

Processing Flags

Review Flags

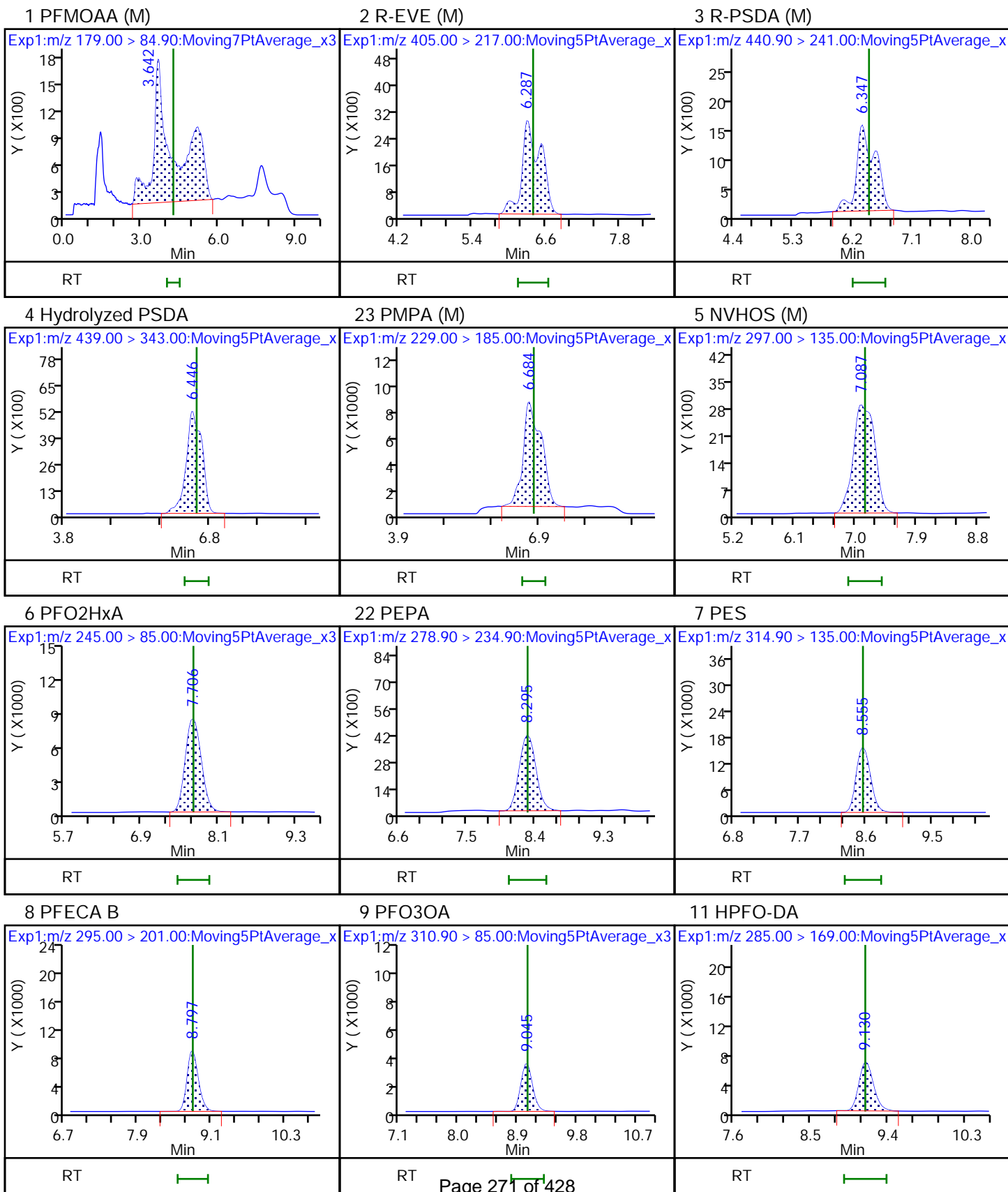
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD4\_00047

Amount Added: 1.00

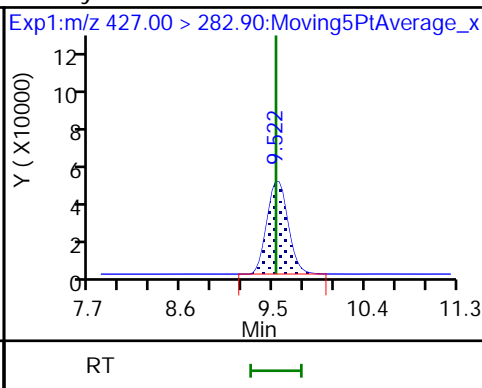
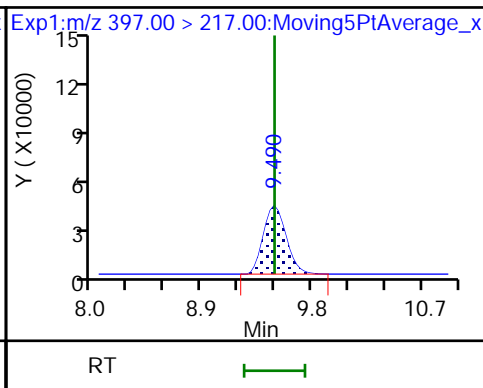
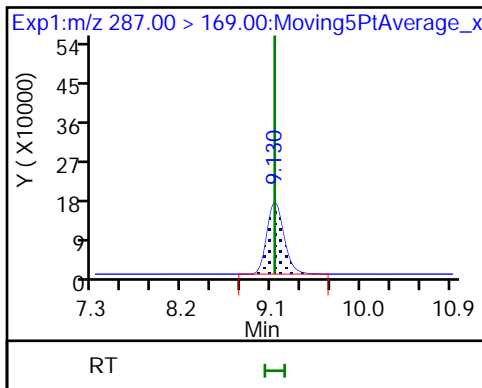
Units: mL



D 10 13C3 HFPO-DA

12 R-PSDCA

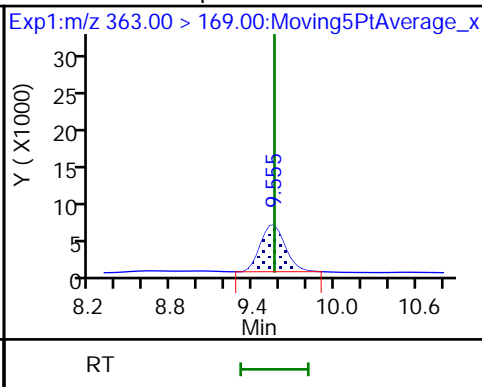
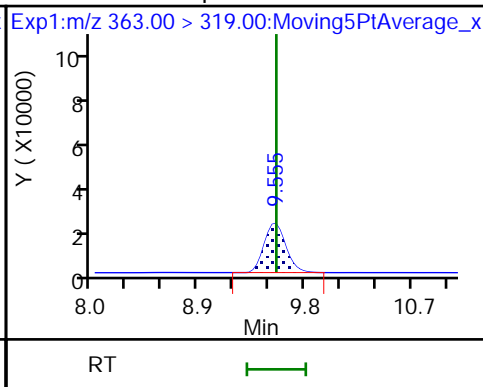
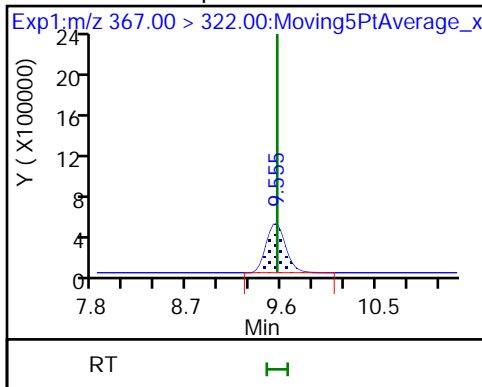
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

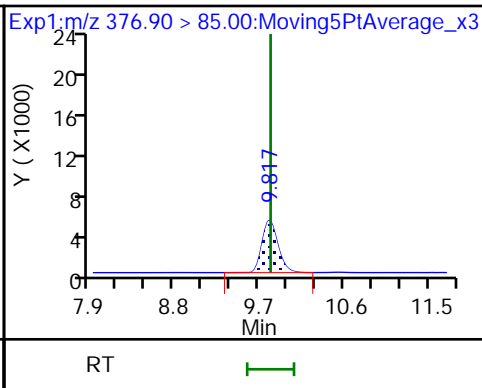
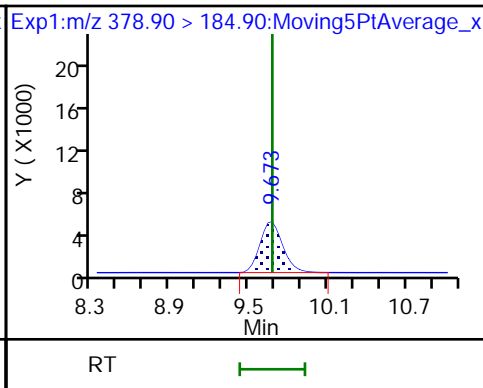
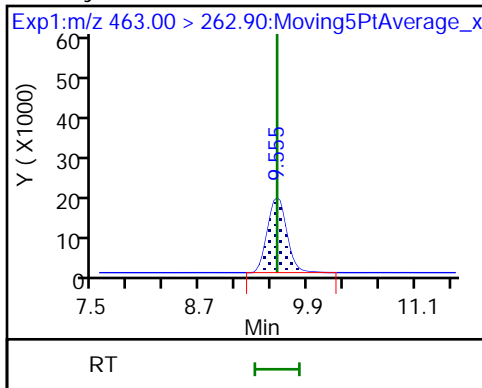
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

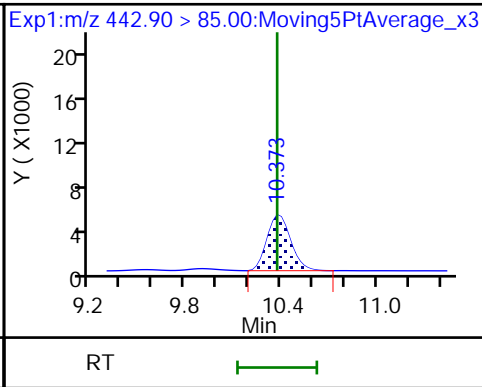
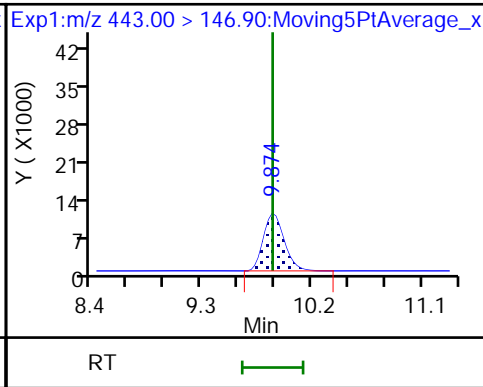
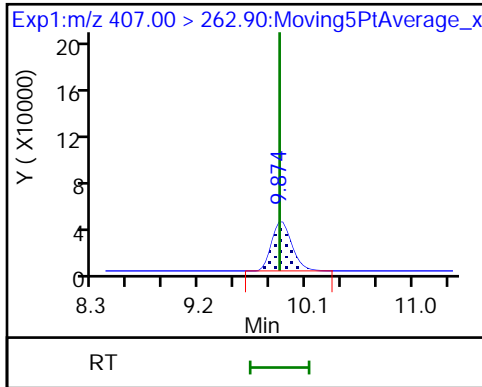
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

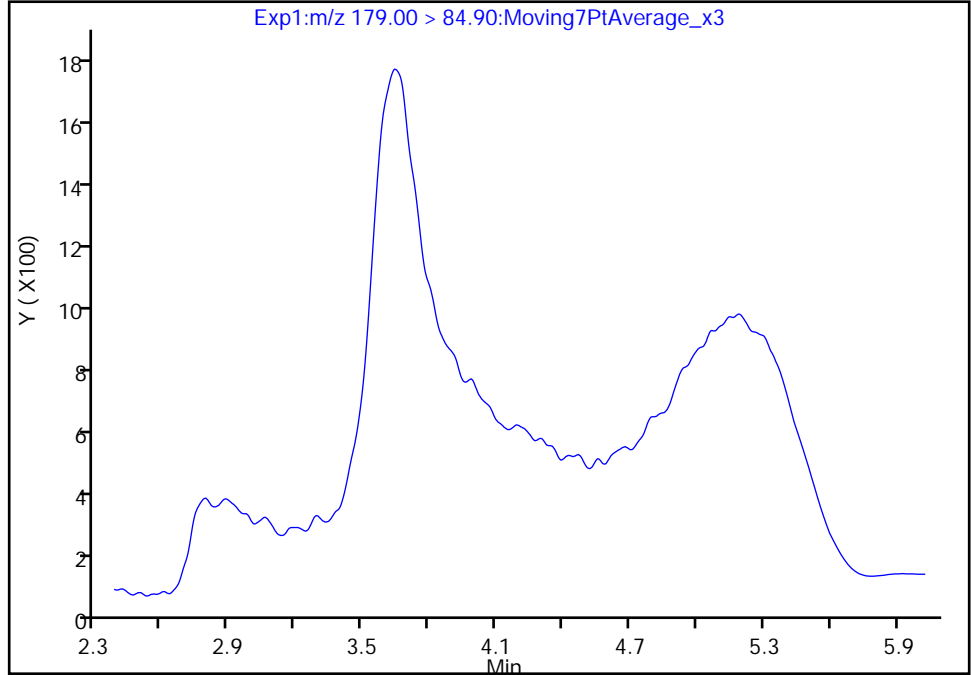
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_009.d  
Injection Date: 11-Mar-2021 13:07:56 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

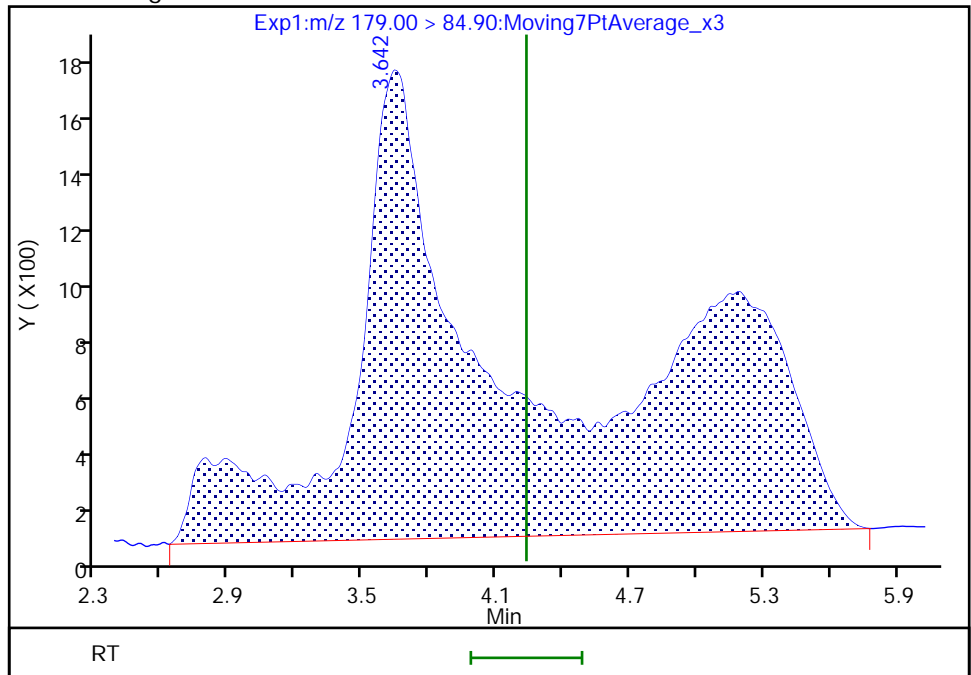
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 3.64  
Area: 93270  
Amount: 0.009019  
Amount Units: ng/ml



Reviewer: yuj, 11-Mar-2021 15:42:35  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

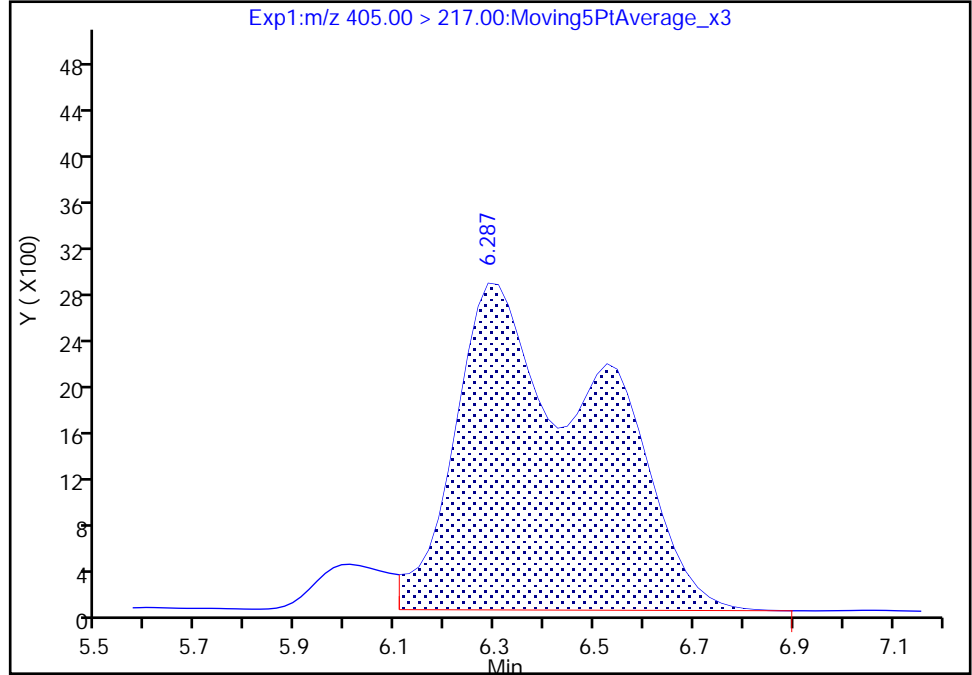
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Injection Date: 11-Mar-2021 13:07:56 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

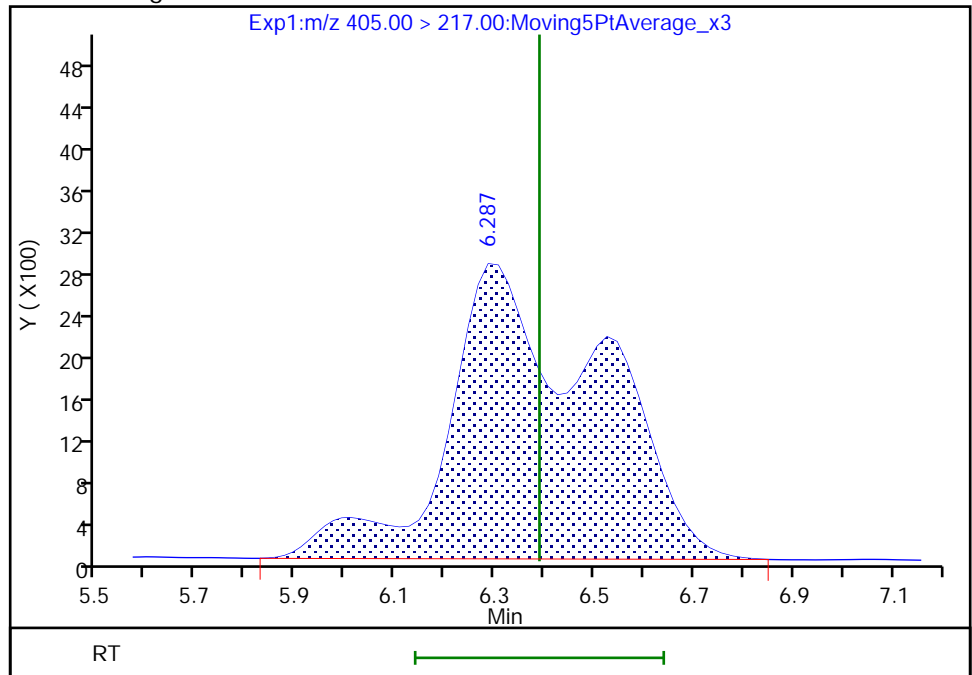
RT: 6.29  
Area: 56499  
Amount: 0.009136  
Amount Units: ng/ml

Processing Integration Results



RT: 6.29  
Area: 60366  
Amount: 0.009106  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:42:43  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

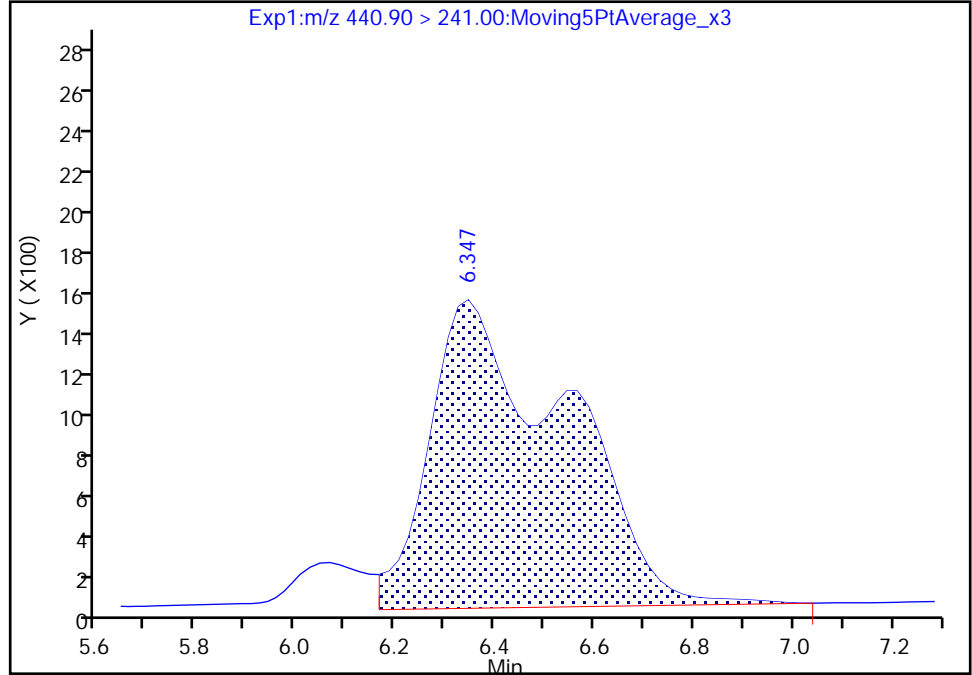
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_009.d  
Injection Date: 11-Mar-2021 13:07:56 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

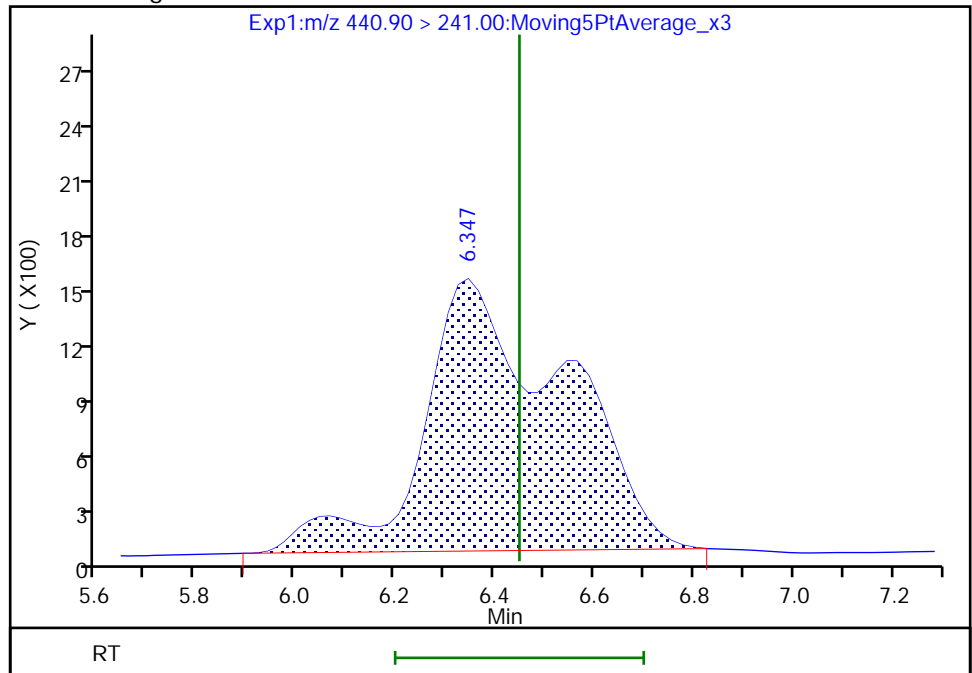
RT: 6.35  
Area: 28091  
Amount: 0.009184  
Amount Units: ng/ml

Processing Integration Results



RT: 6.35  
Area: 28396  
Amount: 0.008643  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:42:48  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

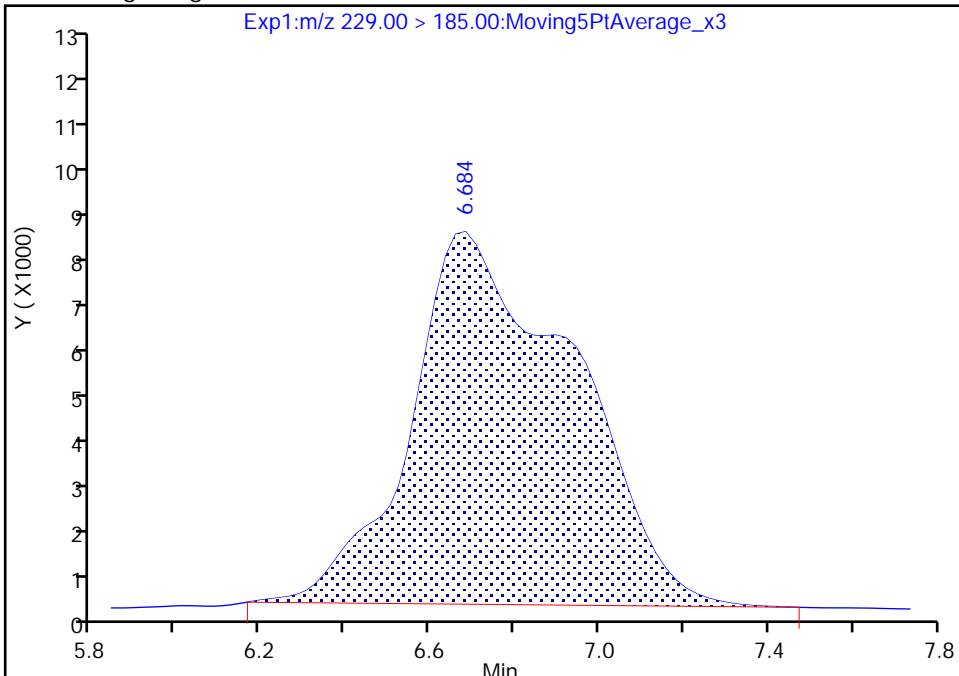
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_009.d  
 Injection Date: 11-Mar-2021 13:07:56 Instrument ID: A12  
 Lims ID: IC STD 4  
 Client ID:  
 Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 6  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
 Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

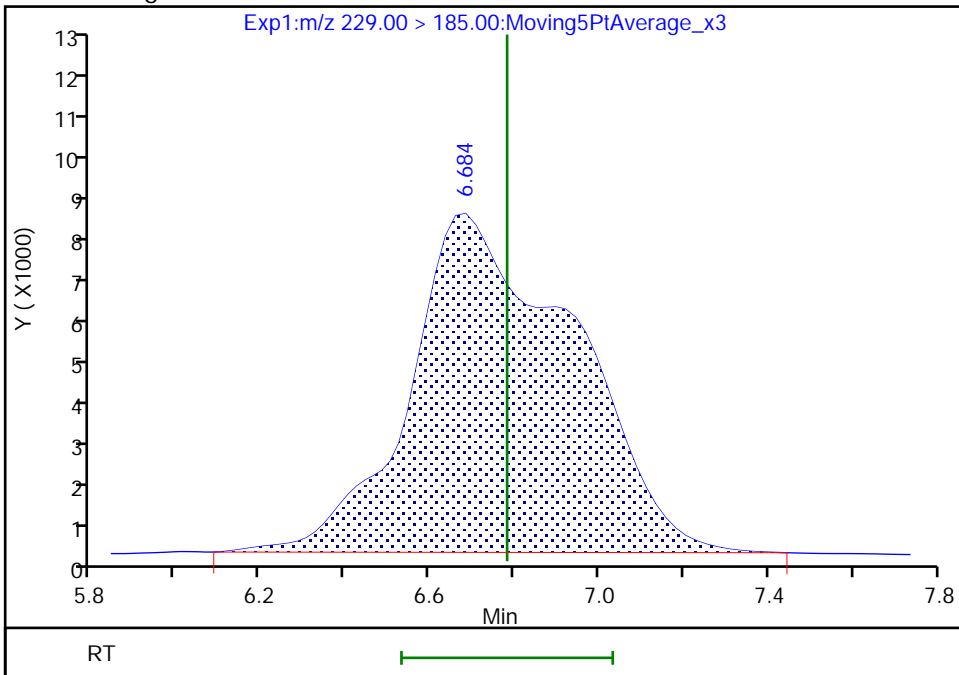
RT: 6.68  
 Area: 204062  
 Amount: 0.006450  
 Amount Units: ng/ml

Processing Integration Results



RT: 6.68  
 Area: 207214  
 Amount: 0.009200  
 Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:46:51  
 Audit Action: Manually Integrated

Audit Reason: Baseline  
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Eurofins TestAmerica, Sacramento

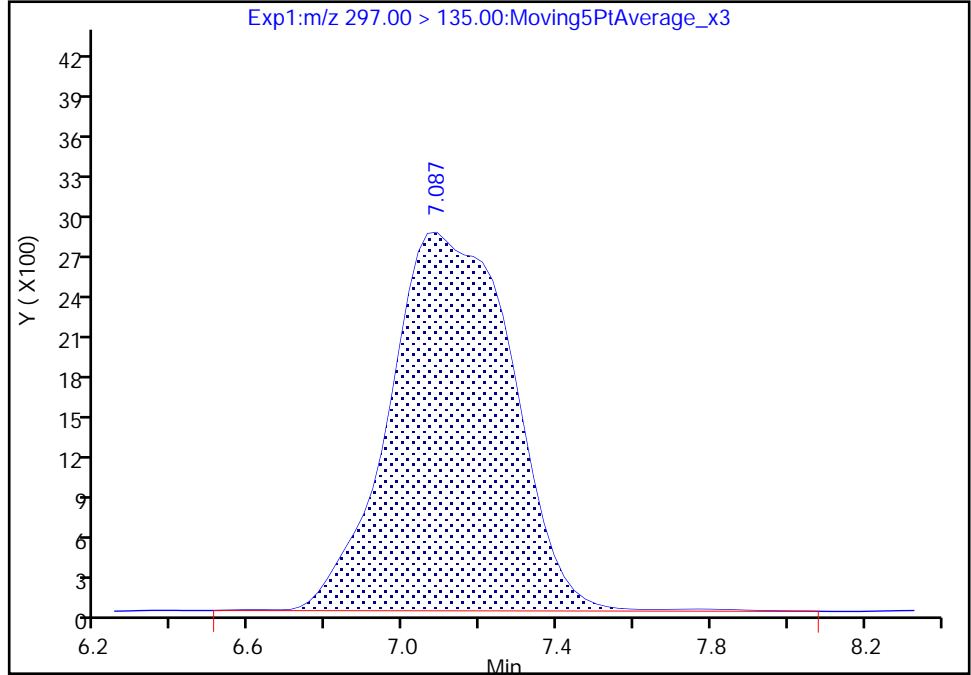
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Injection Date: 11-Mar-2021 13:07:56 Instrument ID: A12  
Lims ID: IC STD 4  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 6  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

5 NVHOS, CAS: 1132933-86-8

Signal: 1

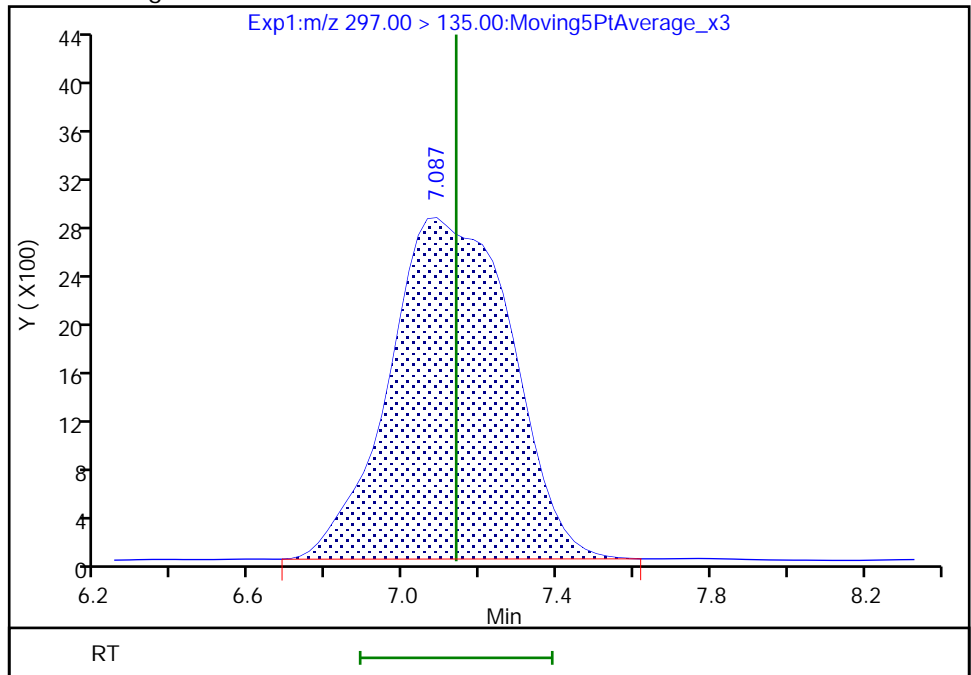
RT: 7.09  
Area: 63831  
Amount: 0.009373  
Amount Units: ng/ml

Processing Integration Results



RT: 7.09  
Area: 63199  
Amount: 0.008650  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:42:59  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_010.d  
 Lims ID: IC STD 5  
 Client ID:  
 Sample Type: IC Calib Level: 5  
 Inject. Date: 11-Mar-2021 13:25:47 ALS Bottle#: 10 Worklist Smp#: 7  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 5 (58)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:55 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfms\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 15:49:17

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.098	4.235	-0.137		240014	0.0232		92.8	28.4	M
2 R-EVE										
405.00 > 217.00	6.367	6.390	-0.023		152289	0.0230		91.9	2094	
3 R-PSDA										M
440.90 > 241.00	6.427	6.450	-0.024		68877	0.0210		83.9	691	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.506	6.529	-0.023		295909	0.0231		92.5	4512	
23 PMPA										
229.00 > 185.00	6.755	6.782	-0.027		465023	0.0227		90.7	695	
5 NVHOS										
297.00 > 135.00	7.111	7.138	-0.027		165347	0.0226		90.5	3484	
6 PFO2HxA										
245.00 > 85.00	7.706	7.709	-0.003		357950	0.0232		92.8	3993	
22 PEPA										
278.90 > 234.90	8.295	8.299	-0.004		148061	0.0222		88.9	1125	
7 PES										
314.90 > 135.00	8.555	8.556	-0.001		493930	0.0204		81.6	12474	
8 PFECA B										
295.00 > 201.00	8.797	8.800	-0.003		259454	0.0229		91.6	6984	
9 PFO3OA										
310.90 > 85.00	9.045	9.048	-0.003		106382	0.0219		87.6	2919	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.130	9.133	-0.003		1893184	0.2433		97.3	32361	
11 HPFO-DA										
285.00 > 169.00	9.130	9.133	-0.003	1.000	203095	0.0243		97.2	2869	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.493	-0.003		1284817	0.0237		95.0	25097	
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.525	-0.002		1848564	0.0243		97.2	21612	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.558	-0.003		6380058	0.2607		104	83981	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.558	-0.003	1.000	712955	0.0233	Target=0.00	93.4	8086	
363.00 > 169.00	9.555	9.558	-0.003	1.000	208506		3.42(0.00-0.00)	93.4	1507	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.558	-0.003		713433	0.0228		91.0	15996	
17 PFECA G										
378.90 > 184.90	9.674	9.676	-0.002		144166	0.0244		97.5	4066	
18 PFO4DA										
376.90 > 85.00	9.817	9.820	-0.003		146869	0.0224		89.7	3159	
20 EVE Acid										
407.00 > 262.90	9.903	9.877	0.026		1218402	0.0239		95.5	25991	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		322715	0.0240		96.1	9245	
21 TAF										
442.90 > 85.00	10.374	10.374	0.0		132222	0.0230		91.9	1078	

**QC Flag Legend**

Processing Flags

Review Flags

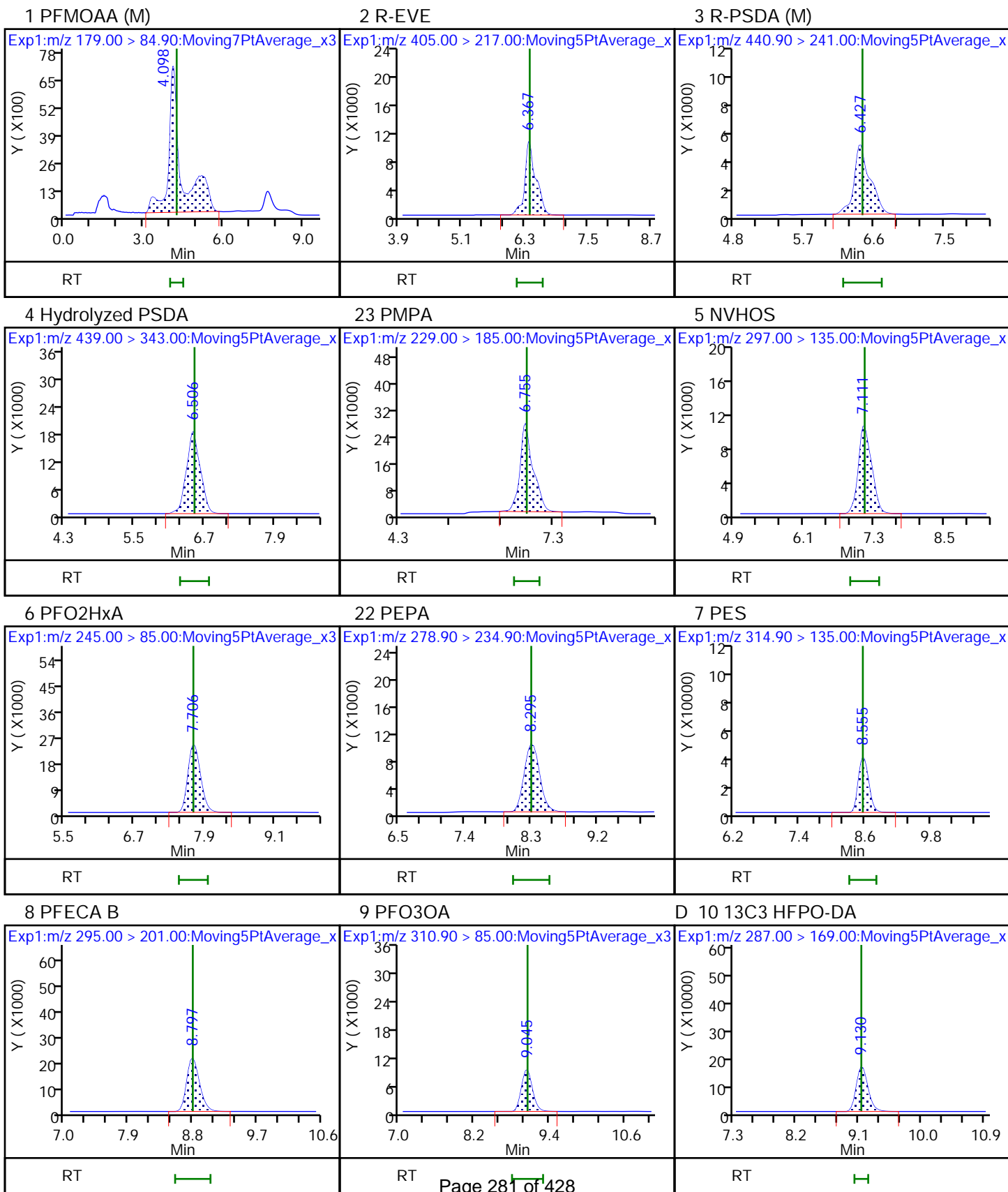
M - Manually Integrated

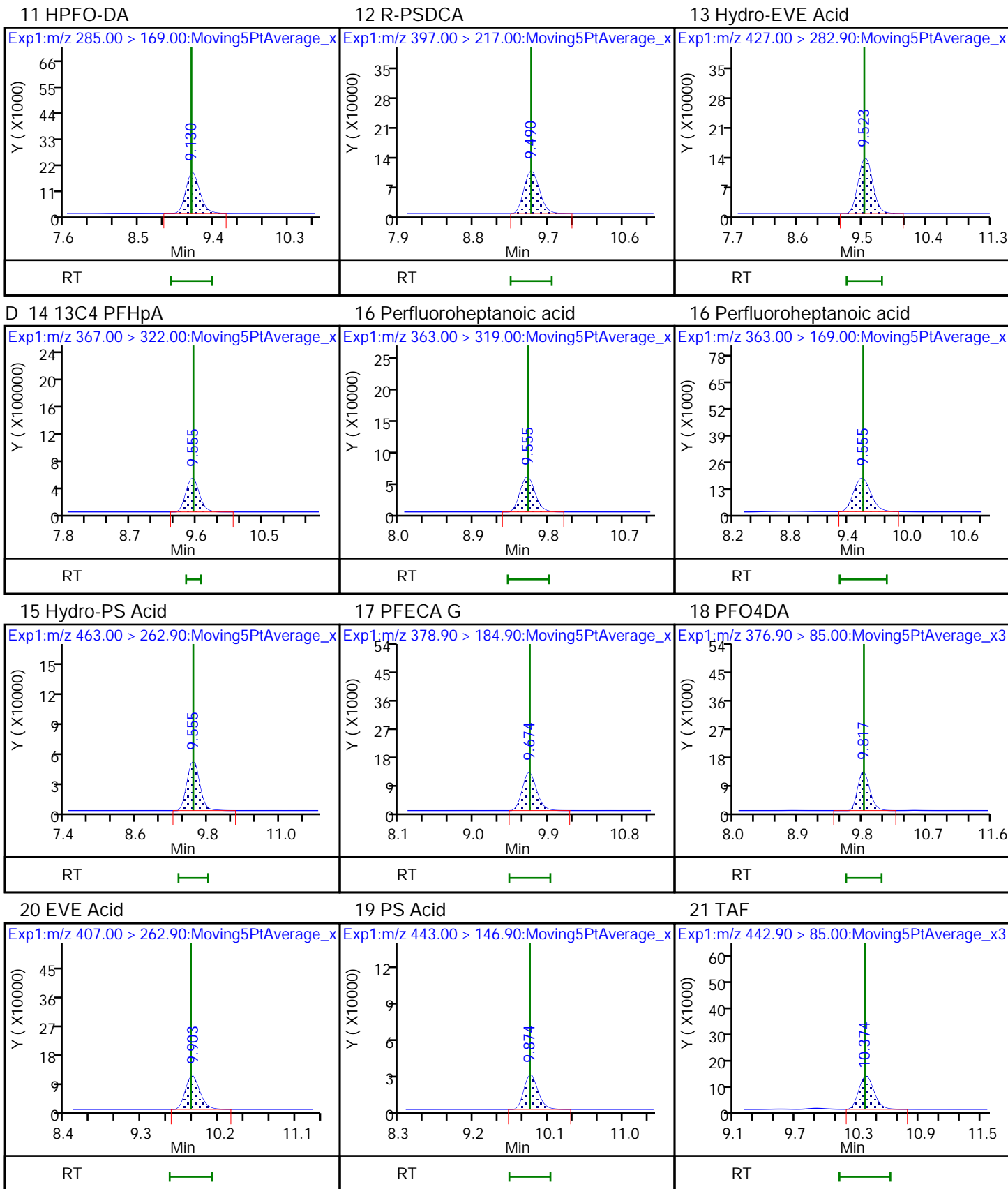
**Reagents:**

LCTB3\_LLSTD5\_00057

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

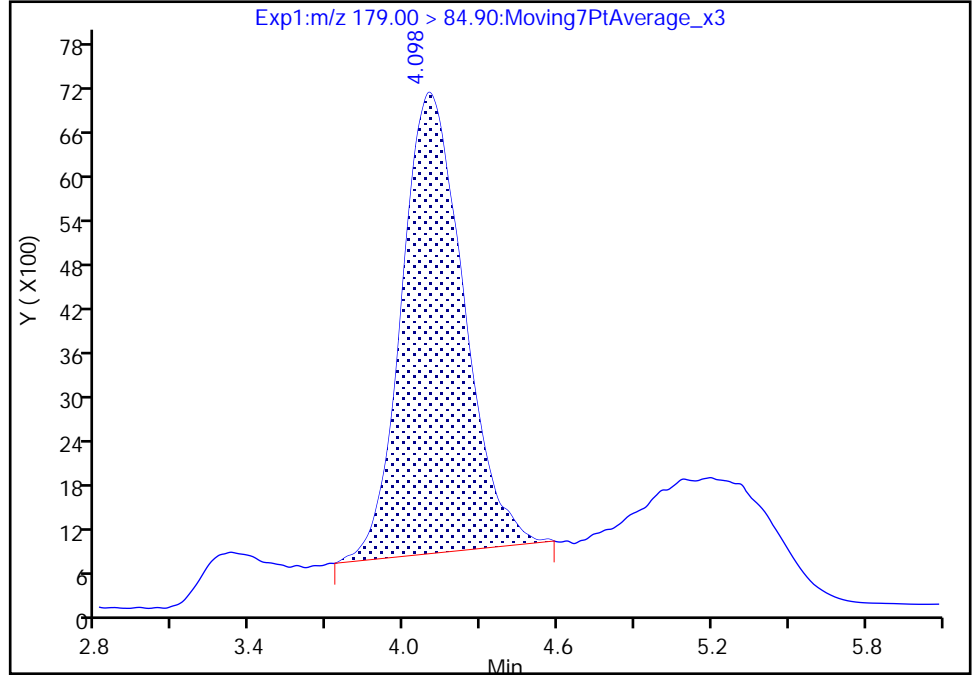
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_010.d  
Injection Date: 11-Mar-2021 13:25:47 Instrument ID: A12  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

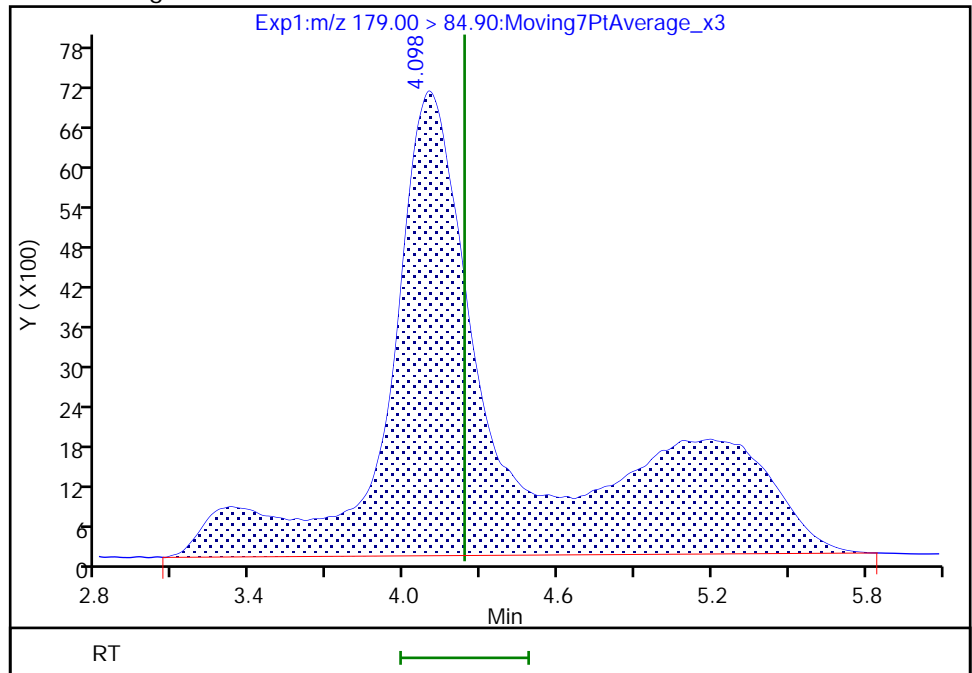
RT: 4.10  
Area: 105644  
Amount: 0.012773  
Amount Units: ng/ml

Processing Integration Results



RT: 4.10  
Area: 240014  
Amount: 0.023210  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:48:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
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Eurofins TestAmerica, Sacramento

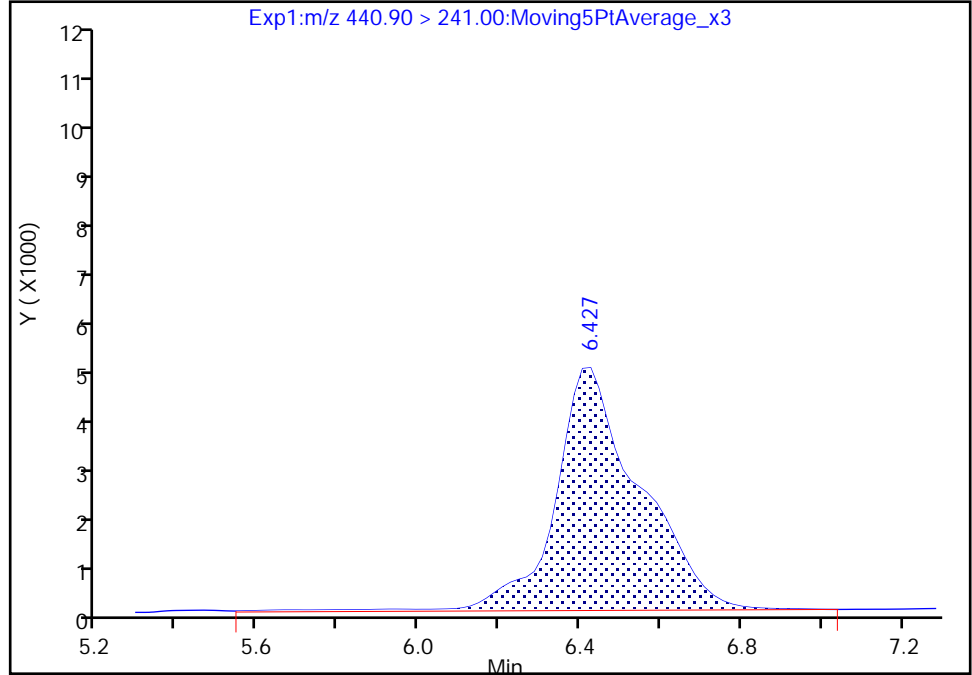
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_010.d  
Injection Date: 11-Mar-2021 13:25:47 Instrument ID: A12  
Lims ID: IC STD 5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 10 Worklist Smp#: 7  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

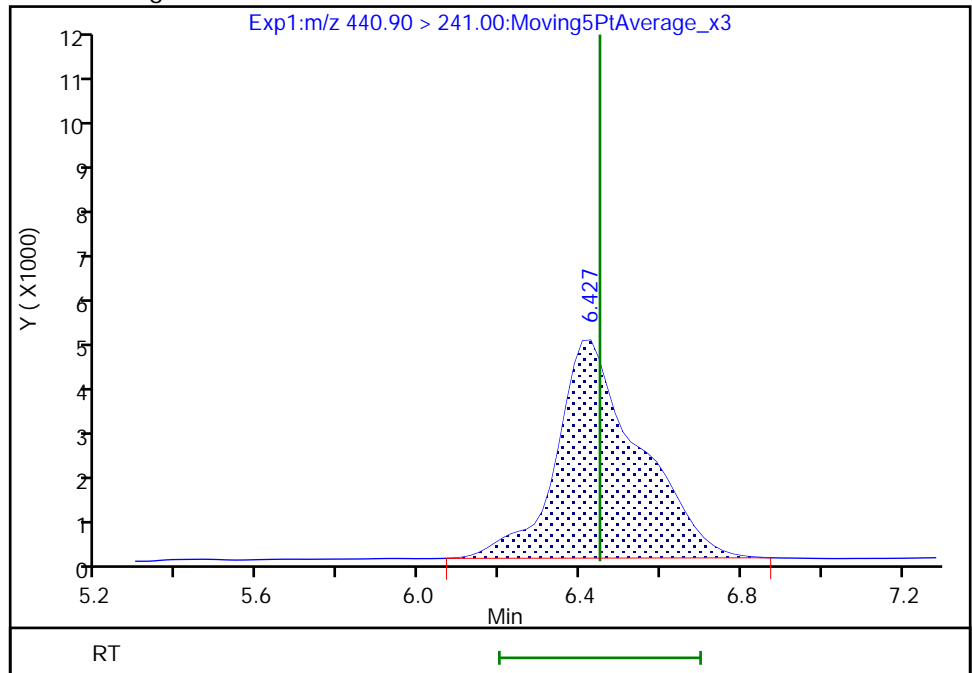
RT: 6.43  
Area: 71522  
Amount: 0.023643  
Amount Units: ng/ml

Processing Integration Results



RT: 6.43  
Area: 68877  
Amount: 0.020965  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 15:49:02  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_012.d  
 Lims ID: IC STD 6  
 Client ID:  
 Sample Type: IC Calib Level: 6  
 Inject. Date: 11-Mar-2021 14:00:57 ALS Bottle#: 12 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 6 (92)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:57 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 16:25:10

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.961	4.235	-0.274		544295	0.0526		105	40.3	M
2 R-EVE										
405.00 > 217.00	6.367	6.390	-0.023		354928	0.0535		107	4597	
3 R-PSDA										M
440.90 > 241.00	6.407	6.450	-0.043		164536	0.0501		100	1399	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.506	6.529	-0.023		662702	0.0518		104	9601	
23 PMPA										
229.00 > 185.00	6.732	6.782	-0.050		1002439	0.0508		102	1334	
5 NVHOS										
297.00 > 135.00	7.111	7.138	-0.027		367865	0.0503		101	6999	
6 PFO2HxA										
245.00 > 85.00	7.706	7.709	-0.003		826140	0.0536		107	10594	
22 PEPA										
278.90 > 234.90	8.295	8.299	-0.004		357518	0.0536		107	2199	
7 PES										
314.90 > 135.00	8.555	8.556	-0.001		1212458	0.0501		100	30515	
8 PFECA B										
295.00 > 201.00	8.797	8.800	-0.003		604295	0.0534		107	15959	
9 PFO3OA										
310.90 > 85.00	9.017	9.048	-0.031		270695	0.0557		111	7338	
11 HPFO-DA										
285.00 > 169.00	9.130	9.133	-0.003	1.000	446970	0.0515		103	6380	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.130	9.133	-0.003		1967730	0.2529		101	33815	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.493	-0.003		3288158	0.0608		122	64078	
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.525	-0.002		4223389	0.0555		111	36881	
D 14 13C4 PFHpA										
367.00 > 322.00	9.523	9.558	-0.035		6691253	0.2734		109	87584	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.523	9.558	-0.035	1.000	1633022	0.0515	Target=0.00	103	18290	
363.00 > 169.00	9.523	9.558	-0.035	1.000	464068		3.52(0.00-0.00)	103	3641	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.558	-0.003		1661116	0.0530		106	37181	
17 PFECA G										
378.90 > 184.90	9.645	9.676	-0.031		344412	0.0582		116	9582	
18 PFO4DA										
376.90 > 85.00	9.788	9.820	-0.032		419942	0.0641		128	8943	
20 EVE Acid										
407.00 > 262.90	9.874	9.877	-0.003		2938957	0.0576		115	50327	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		742261	0.0553		111	16018	
21 TAF										
442.90 > 85.00	10.374	10.374	0.0		323035	0.0561		112	2112	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD6\_00090

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_012.d

Injection Date: 11-Mar-2021 14:00:57

Instrument ID: A12

Lims ID: IC STD 6

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 12

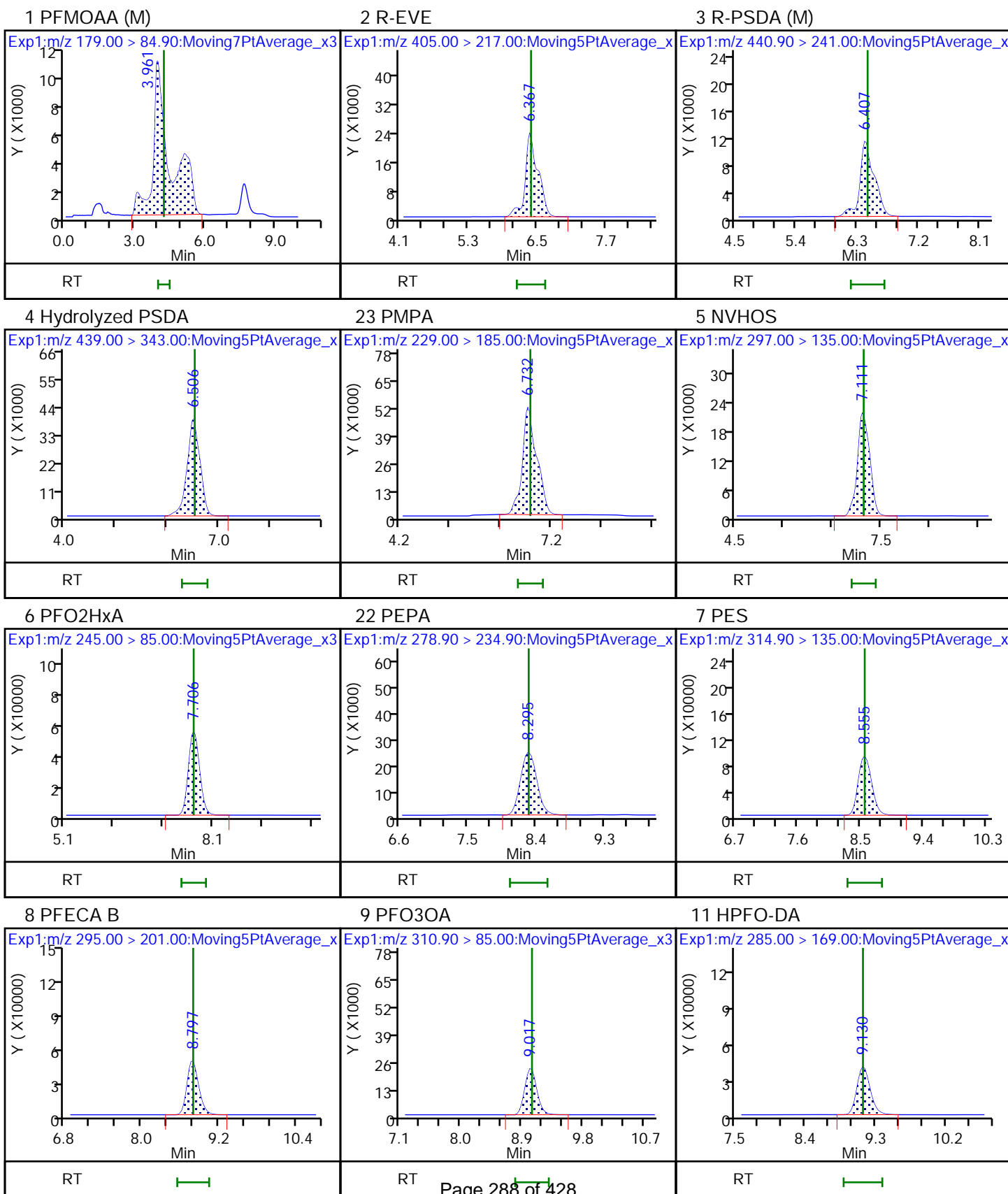
Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

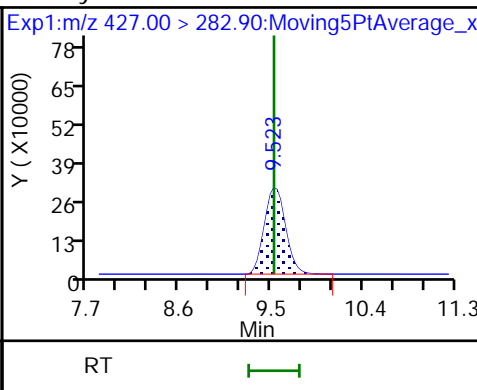
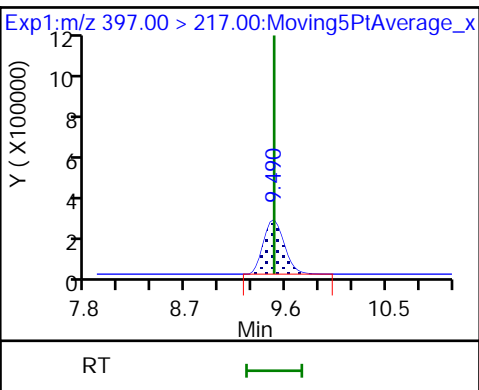
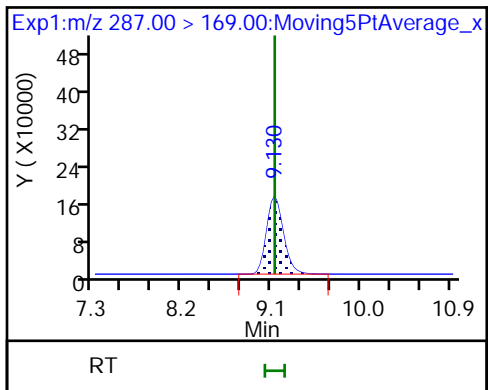
Limit Group: LC PFAS\_TB3P - ICAL



D 10 13C3 HFPO-DA

12 R-PSDCA

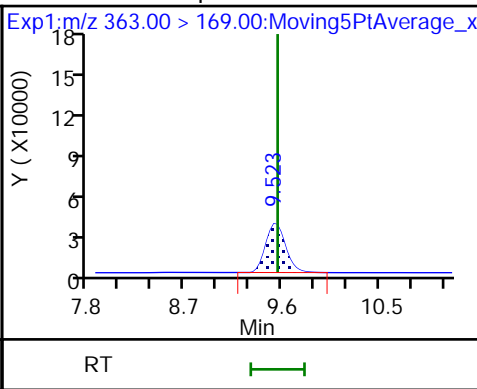
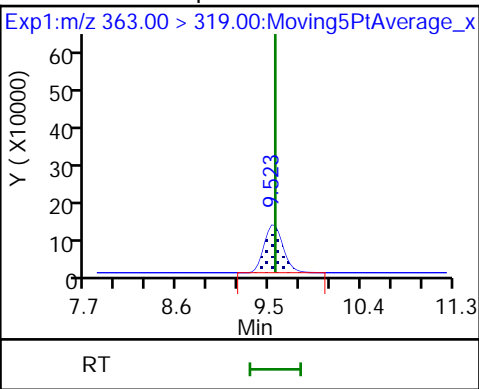
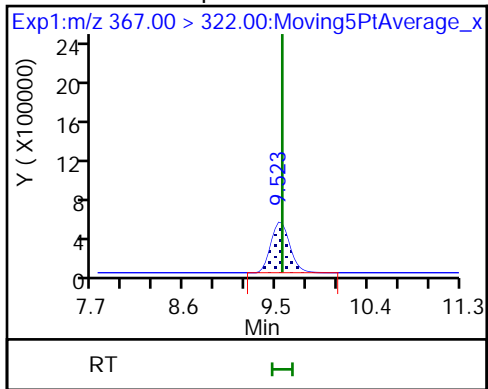
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

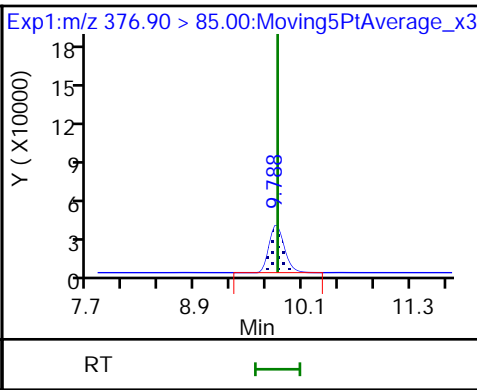
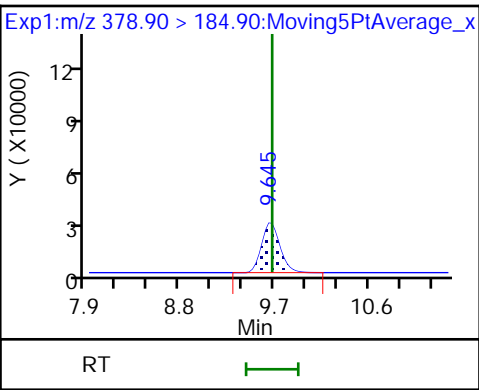
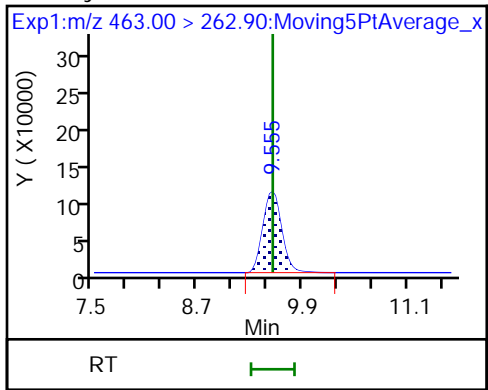
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

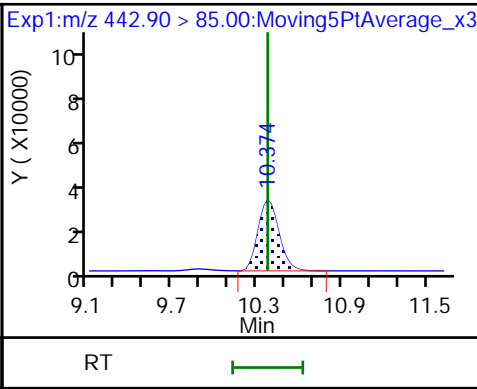
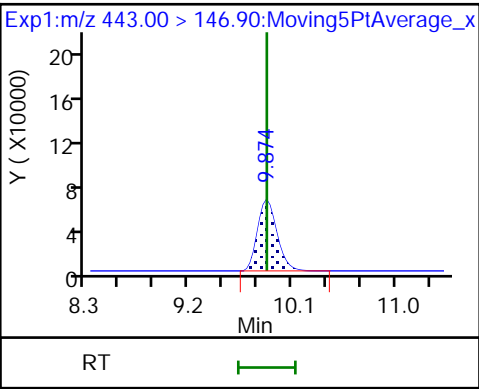
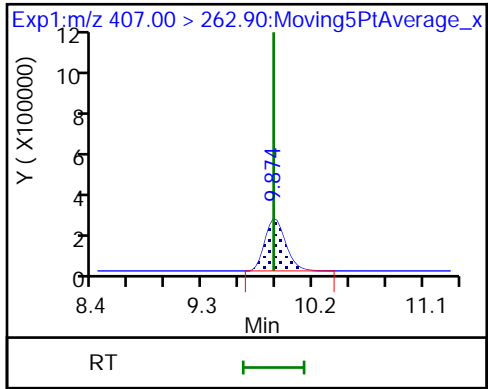
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF







Eurofins TestAmerica, Sacramento

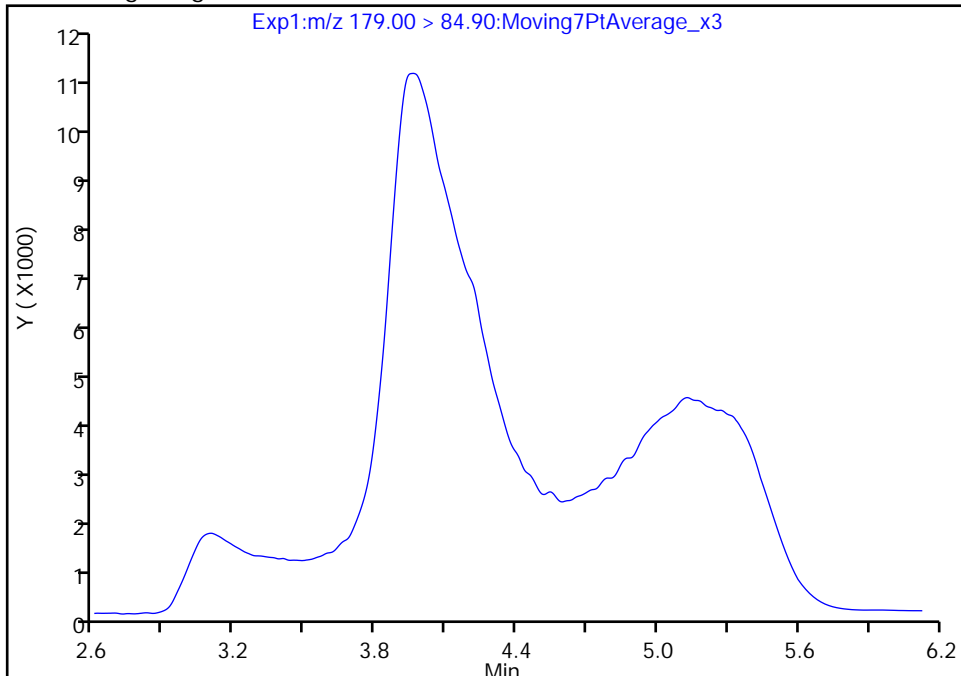
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_012.d  
Injection Date: 11-Mar-2021 14:00:57 Instrument ID: A12  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

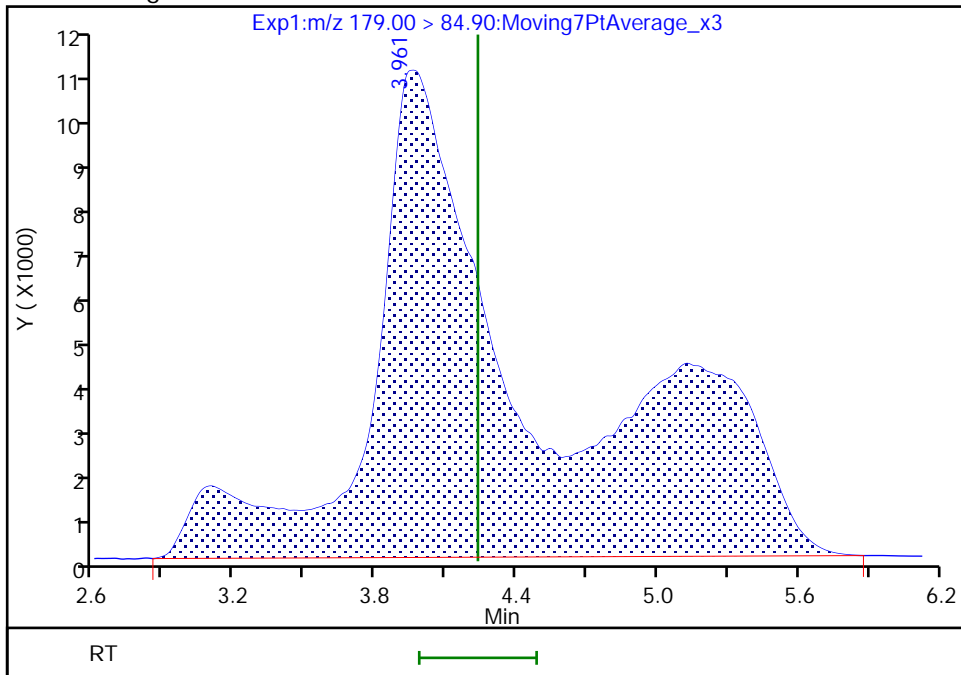
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 3.96  
Area: 544295  
Amount: 0.052634  
Amount Units: ng/ml



Reviewer: yuj, 11-Mar-2021 16:23:52  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

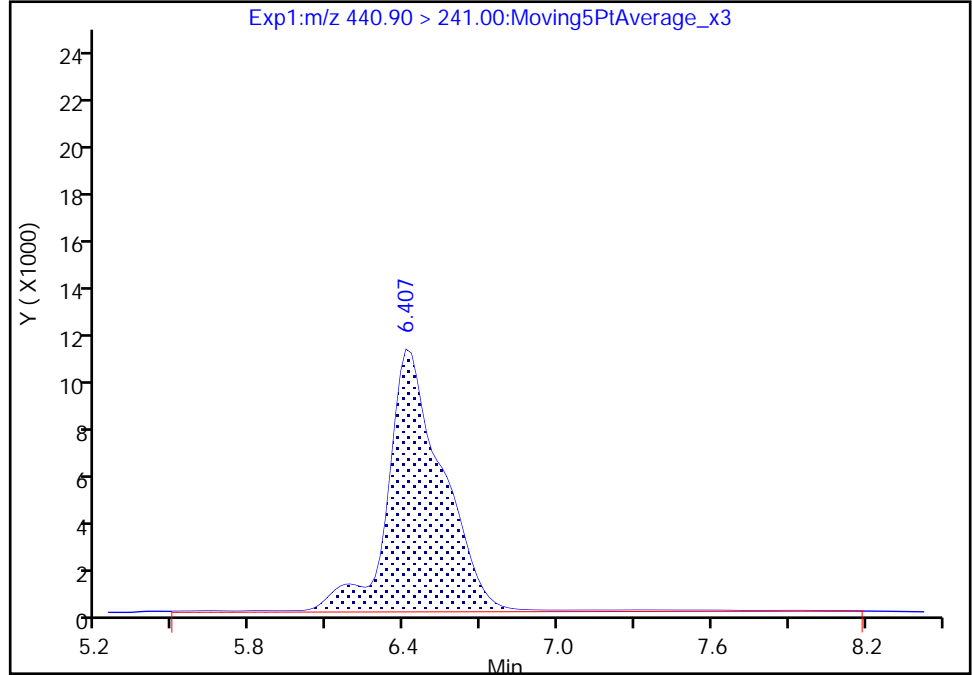
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_012.d  
Injection Date: 11-Mar-2021 14:00:57 Instrument ID: A12  
Lims ID: IC STD 6  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

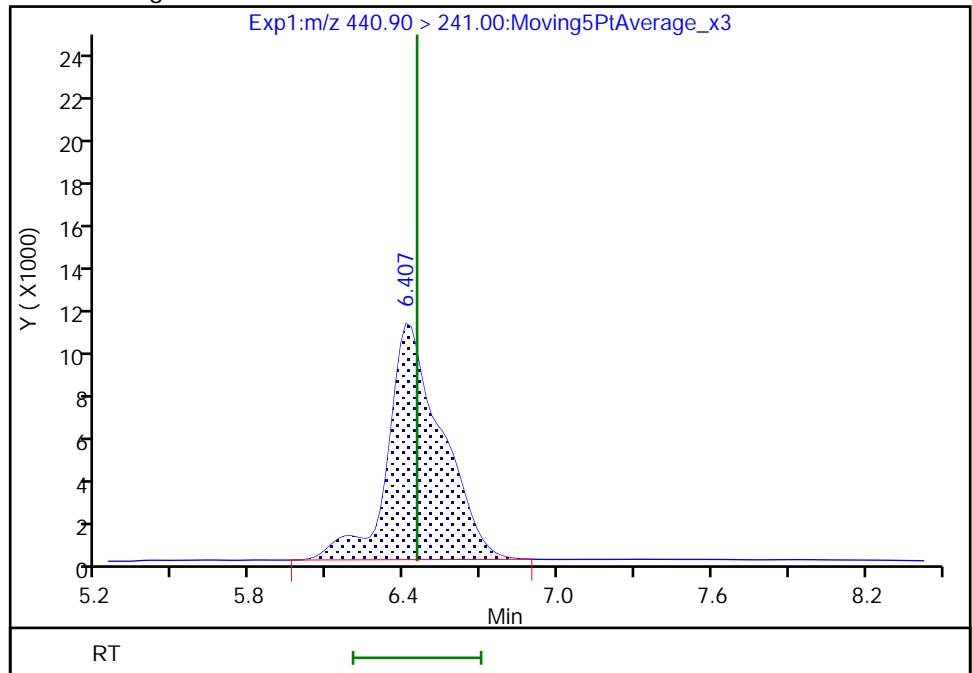
RT: 6.41  
Area: 171736  
Amount: 0.055835  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 164536  
Amount: 0.050082  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 16:24:04  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_014.d  
 Lims ID: IC STD 7  
 Client ID:  
 Sample Type: IC Calib Level: 7  
 Inject. Date: 11-Mar-2021 14:36:04 ALS Bottle#: 14 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 7 (444)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:58 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 16:57:07

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.922	4.235	-0.313		1097611	0.1061		106	65.6	M
2 R-EVE										M
405.00 > 217.00	6.387	6.390	-0.003		717544	0.1082		108	7525	M
3 R-PSDA										
440.90 > 241.00	6.446	6.450	-0.004		343646	0.1046		105	4193	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.526	6.529	-0.003		1362003	0.1064		106	19477	
23 PMPA										
229.00 > 185.00	6.755	6.782	-0.027		1989388	0.1024		102	2811	
5 NVHOS										
297.00 > 135.00	7.134	7.138	-0.004		742911	0.1017		102	10406	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		1628154	0.1055		106	17183	
22 PEPA										
278.90 > 234.90	8.330	8.299	0.031		736614	0.1105		111	5595	
7 PES										
314.90 > 135.00	8.588	8.556	0.032		2503517	0.1034		103	47345	
8 PFECA B										
295.00 > 201.00	8.797	8.800	-0.003		1174361	0.1037		104	23098	
9 PFO3OA										
310.90 > 85.00	9.045	9.048	-0.003		529631	0.1090		109	14631	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.158	9.133	0.025		1880223	0.2416		96.6	32221	
11 HPFO-DA										
285.00 > 169.00	9.158	9.133	0.025	1.000	918574	0.1107		111	13166	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.493	0.029		5881852	0.1087		109	75944	
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.525	0.030		8058472	0.1059		106	56295	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.558	-0.003		5595951	0.2287		91.5	74405	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.558	-0.003	1.000	2872511	0.1087	Target=0.00	109	28666	
363.00 > 169.00	9.555	9.558	-0.003	1.000	799410		3.59(0.00-0.00)	109	6381	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.558	0.029		3346171	0.1067		107	56871	
17 PFECA G										
378.90 > 184.90	9.673	9.676	-0.003		607348	0.1027		103	17204	
18 PFO4DA										
376.90 > 85.00	9.817	9.820	-0.003		700600	0.1069		107	15078	
20 EVE Acid										
407.00 > 262.90	9.903	9.877	0.026		5327376	0.1044		104	65421	
19 PS Acid										
443.00 > 146.90	9.903	9.877	0.026		1472654	0.1096		110	31708	
21 TAF										
442.90 > 85.00	10.399	10.374	0.025		671219	0.1166		117	2892	

**QC Flag Legend**

Processing Flags

Review Flags

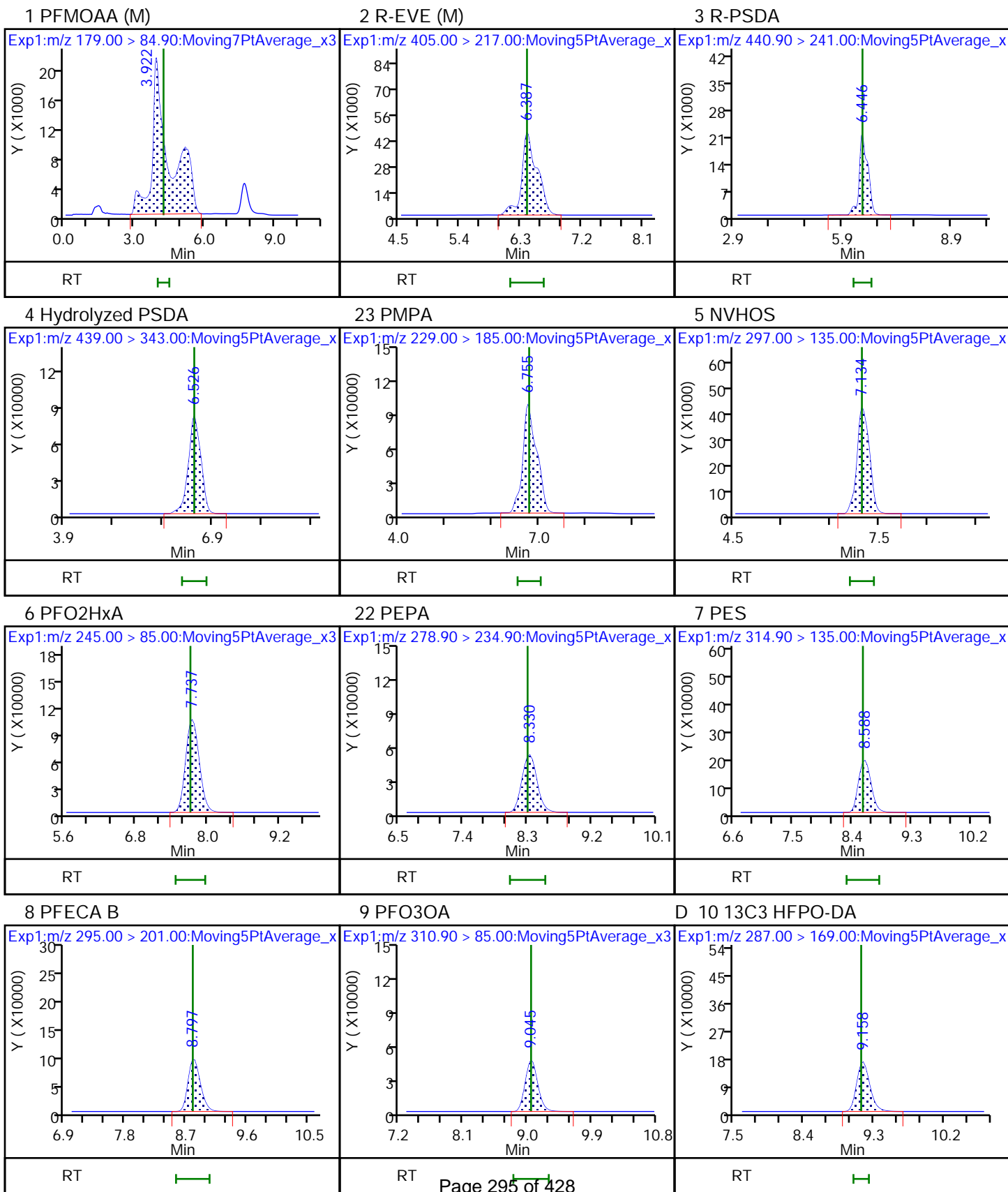
M - Manually Integrated

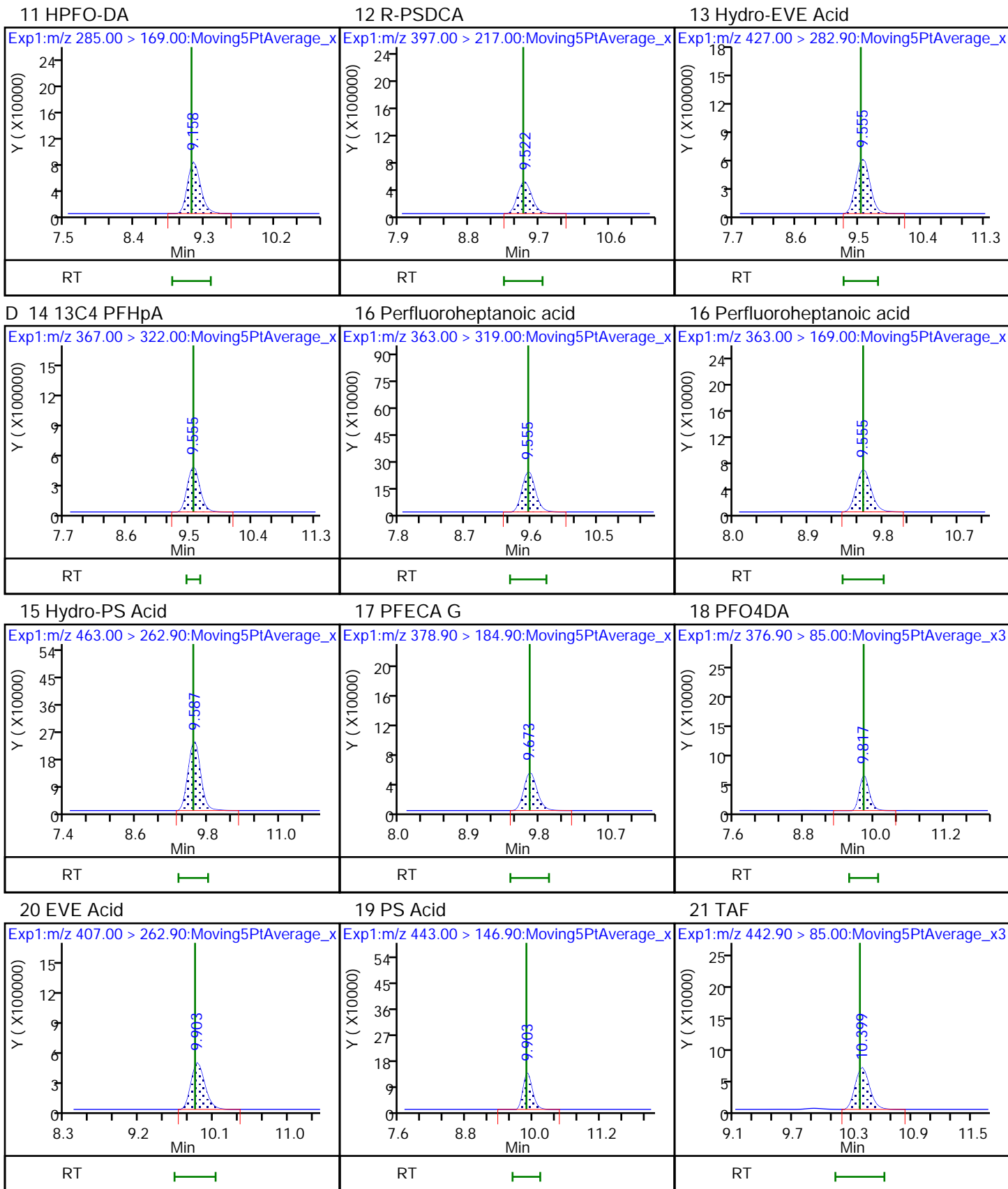
**Reagents:**

LCTB3\_LLSTD7\_00443

Amount Added: 1.00

Units: mL







Eurofins TestAmerica, Sacramento

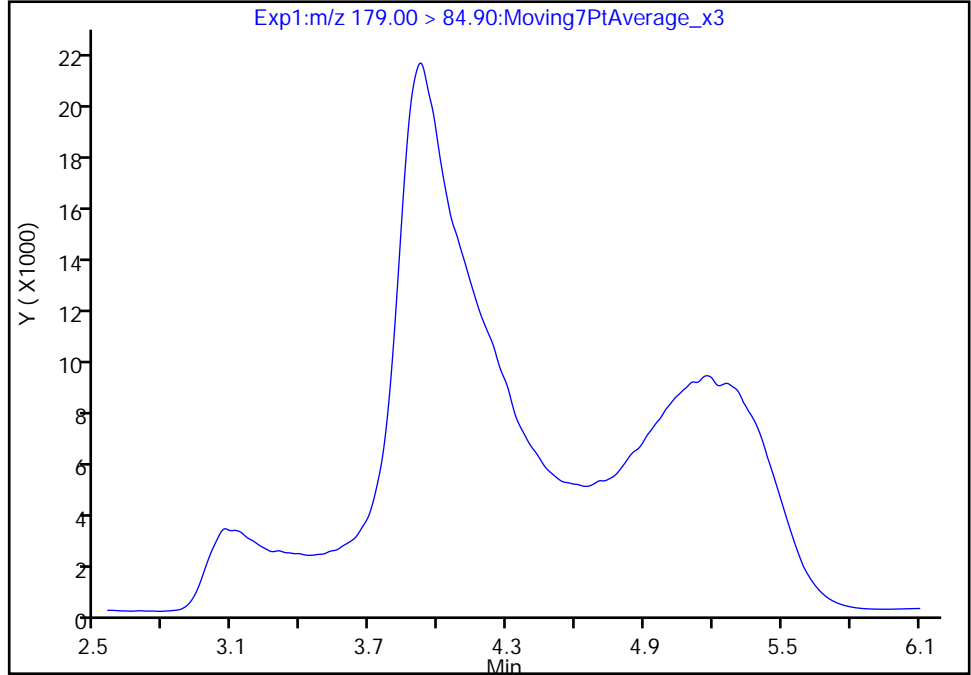
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_014.d  
Injection Date: 11-Mar-2021 14:36:04 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

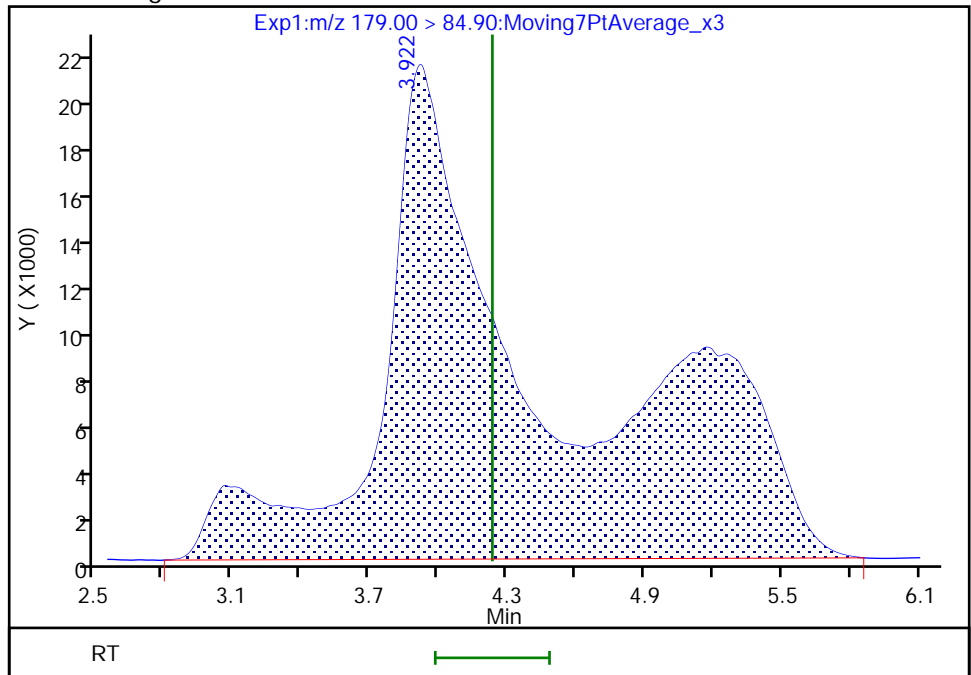
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 3.92  
Area: 1097611  
Amount: 0.106140  
Amount Units: ng/ml



Reviewer: yuj, 11-Mar-2021 16:56:36  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

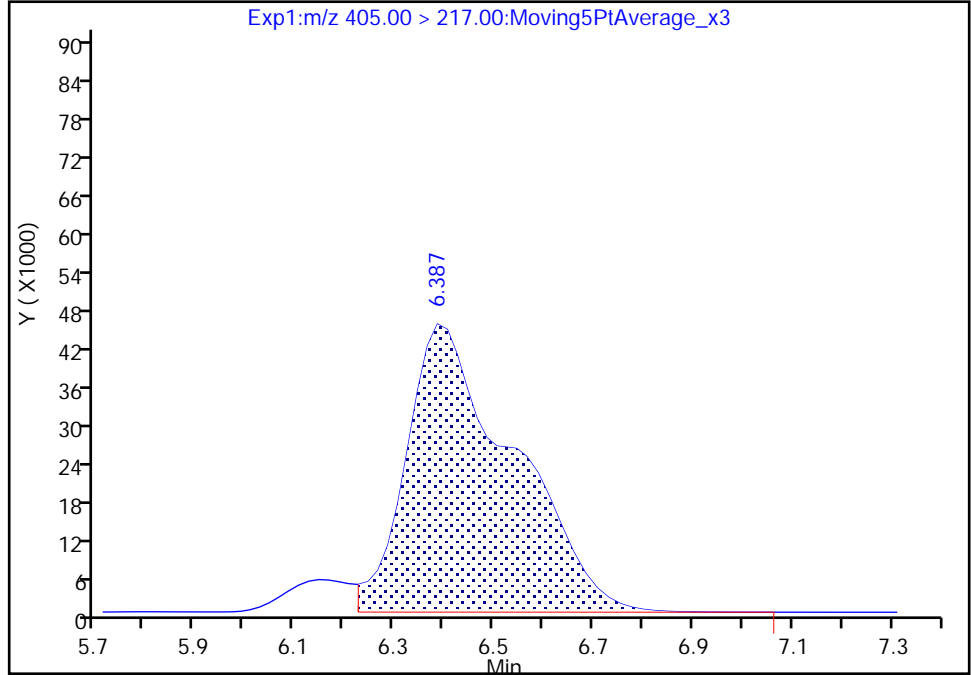
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_014.d  
Injection Date: 11-Mar-2021 14:36:04 Instrument ID: A12  
Lims ID: IC STD 7  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 14 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

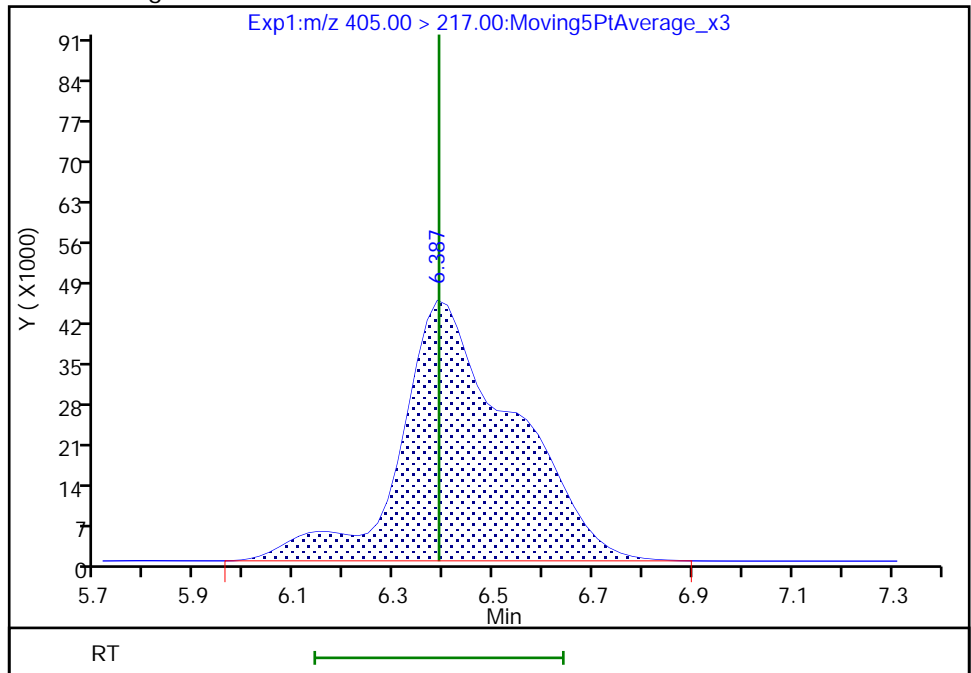
RT: 6.39  
Area: 672655  
Amount: 0.104544  
Amount Units: ng/ml

Processing Integration Results



RT: 6.39  
Area: 717544  
Amount: 0.108234  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 16:56:45  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_016.d  
 Lims ID: IC STD 8  
 Client ID:  
 Sample Type: IC Calib Level: 8  
 Inject. Date: 11-Mar-2021 15:11:13 ALS Bottle#: 16 Worklist Smp#: 13  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 8 (47)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:42:59 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: yuj Date: 11-Mar-2021 17:34:25

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.305	4.235	0.070		2884762	0.2790		112	433	M
2 R-EVE										
405.00 > 217.00	6.427	6.390	0.037		1886476	0.2846		114	26844	
3 R-PSDA										
440.90 > 241.00	6.466	6.450	0.016		915063	0.2785		111	11342	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.529	0.017		3544376	0.2769		111	56581	
23 PMPA										
229.00 > 185.00	6.803	6.782	0.021		5246716	0.2727		109	8629	
5 NVHOS										
297.00 > 135.00	7.185	7.138	0.047		2063902	0.2825		113	38732	
6 PFO2HxA										
245.00 > 85.00	7.740	7.709	0.031		4307590	0.2792		112	44248	
22 PEPA										
278.90 > 234.90	8.335	8.299	0.036		1919218	0.2880		115	12581	
7 PES										
314.90 > 135.00	8.589	8.556	0.033		7538475	0.3115		125	117617	
8 PFECA B										
295.00 > 201.00	8.830	8.800	0.030		3094418	0.2733		109	61605	
9 PFO3OA										
310.90 > 85.00	9.048	9.048	0.0		1510951	0.3109		124	31655	
11 HPFO-DA										
285.00 > 169.00	9.161	9.133	0.028	1.000	2375785	0.2863		115	34272	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.161	9.133	0.028		1879948	0.2416		96.6	32566	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.525	9.493	0.032		14766368	0.2729		109	114508	
13 Hydro-EVE Acid										
427.00 > 282.90	9.558	9.525	0.033		21354386	0.2807		112	93632	
D 14 13C4 PFHpA										
367.00 > 322.00	9.558	9.558	0.0		5515334	0.2254		90.1	73497	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.558	9.558	0.0	1.000	7138839	0.2746	Target=0.00	110	51976	
363.00 > 169.00	9.558	9.558	0.0	1.000	2027207		3.52(0.00-0.00)	110	16206	
15 Hydro-PS Acid										
463.00 > 262.90	9.590	9.558	0.032		8662362	0.2762		110	98264	
17 PFECA G										
378.90 > 184.90	9.676	9.676	0.0		1469571	0.2484		99.4	41653	
18 PFO4DA										
376.90 > 85.00	9.820	9.820	0.0		1446690	0.2208		88.3	24866	
20 EVE Acid										
407.00 > 262.90	9.906	9.877	0.029		12391948	0.2428		97.1	81903	
19 PS Acid										
443.00 > 146.90	9.906	9.877	0.029		3629386	0.2702		108	62451	
21 TAF										
442.90 > 85.00	10.399	10.374	0.025		1665364	0.2894		116	3982	

**QC Flag Legend**

Processing Flags

Review Flags

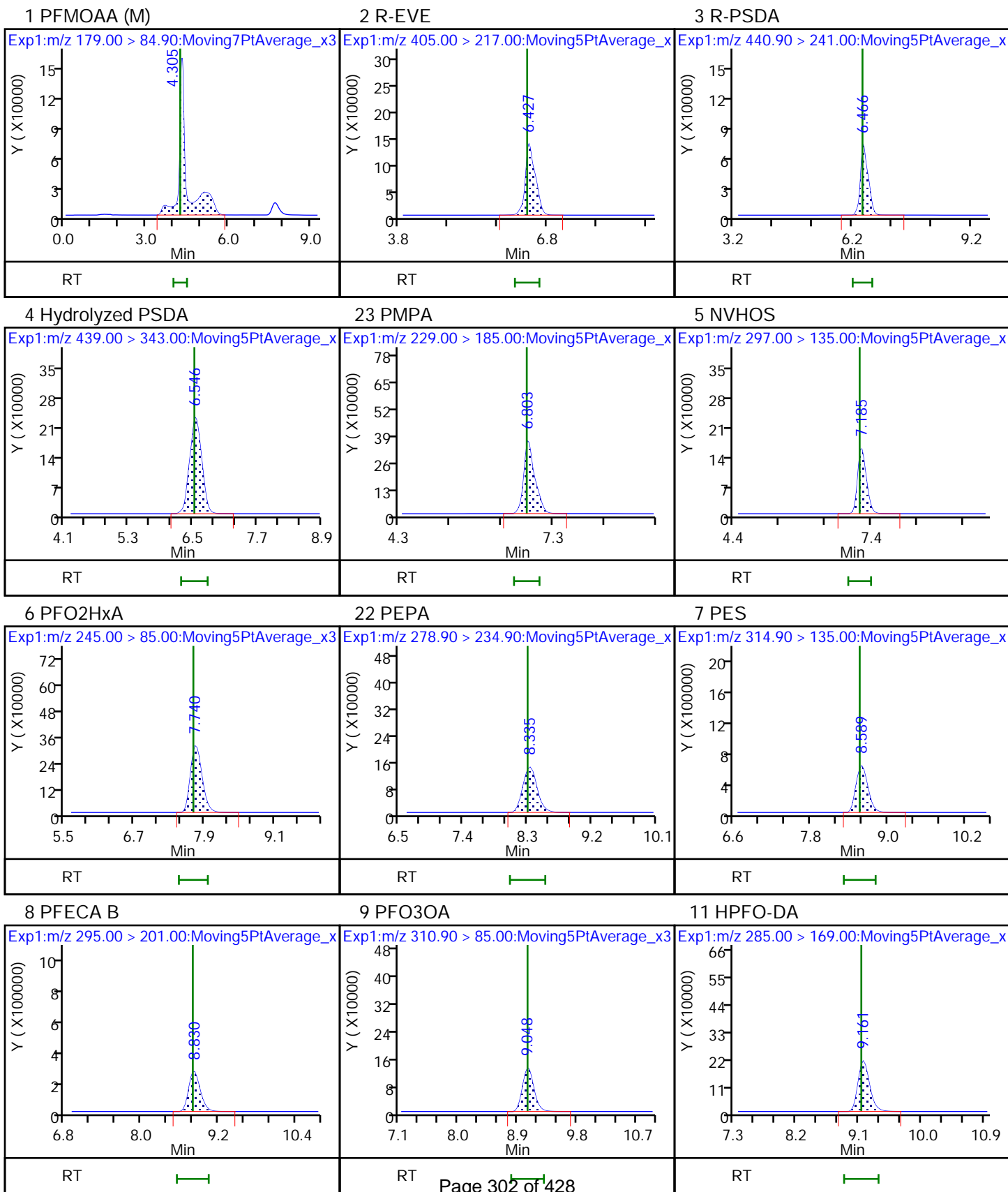
M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD8\_00046

Amount Added: 1.00

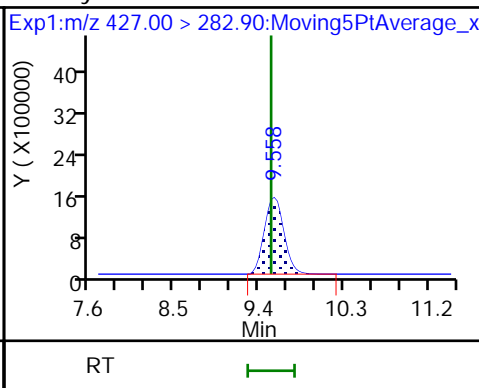
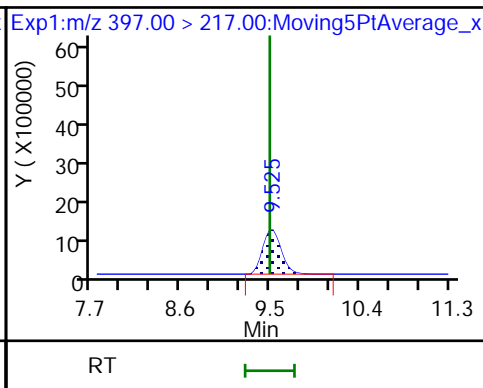
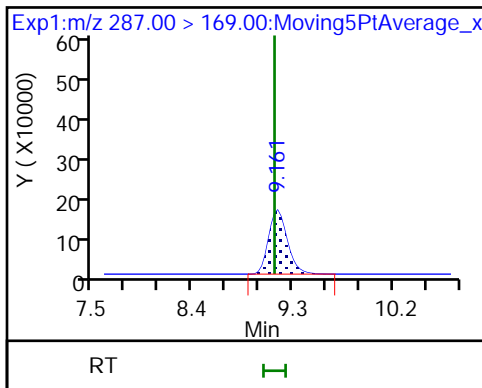
Units: mL



D 10 13C3 HFPO-DA

12 R-PSDCA

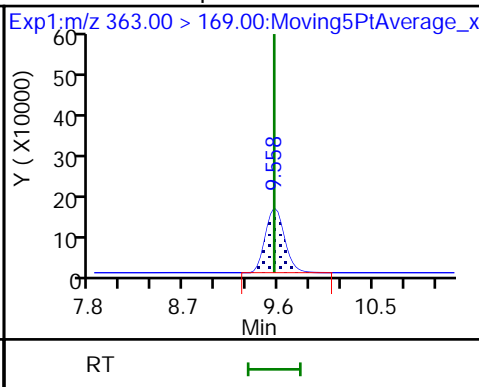
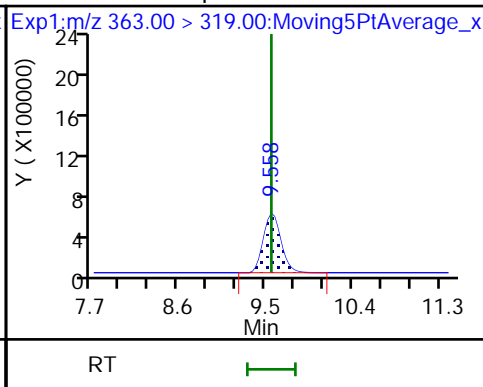
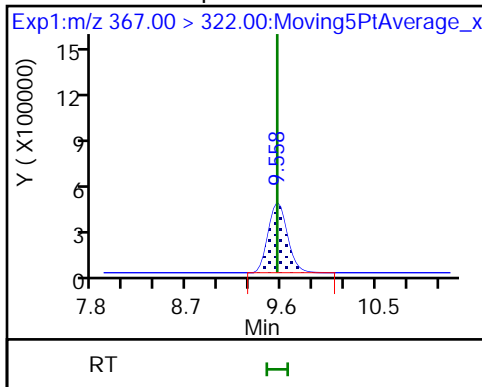
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

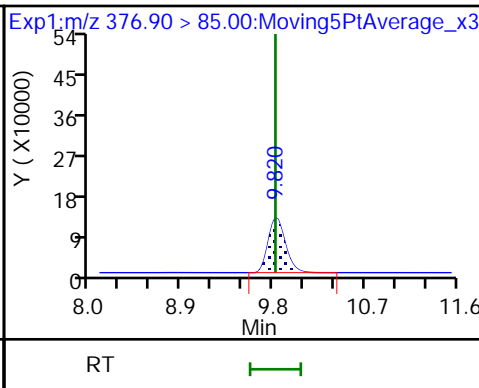
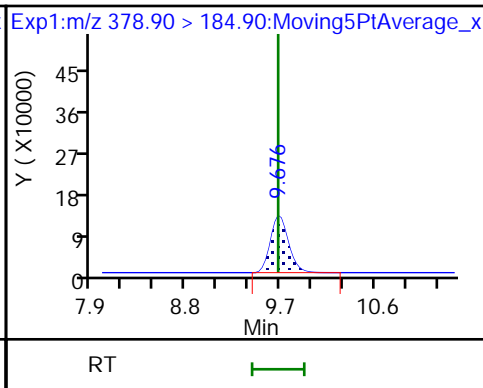
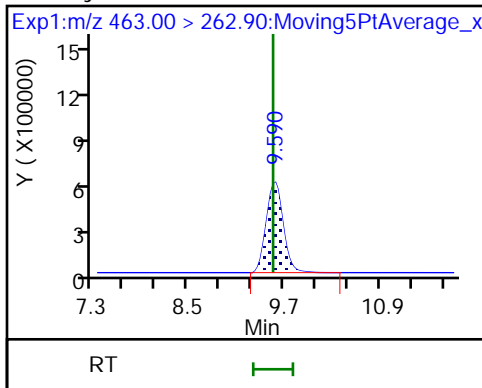
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

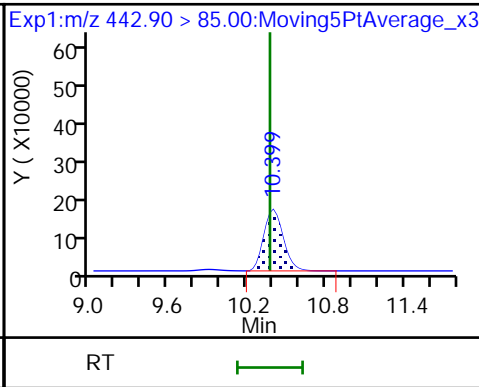
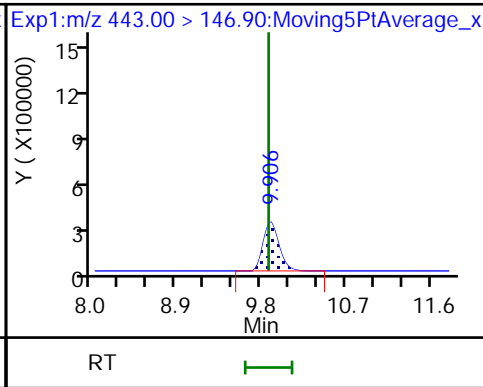
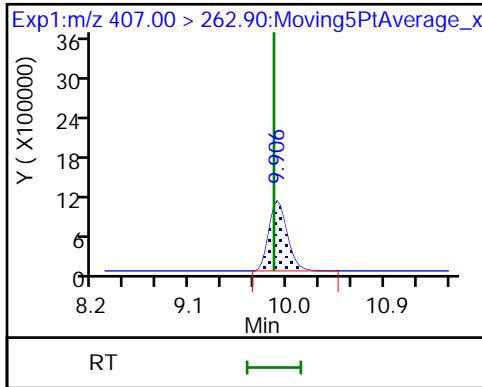
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

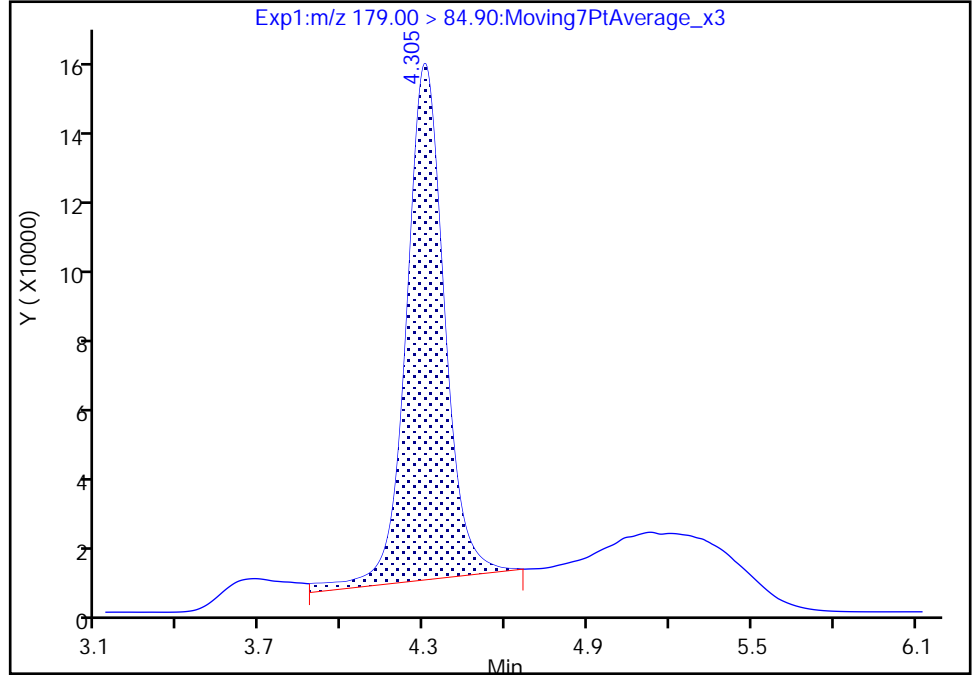
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_016.d  
Injection Date: 11-Mar-2021 15:11:13 Instrument ID: A12  
Lims ID: IC STD 8  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 16 Worklist Smp#: 13  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

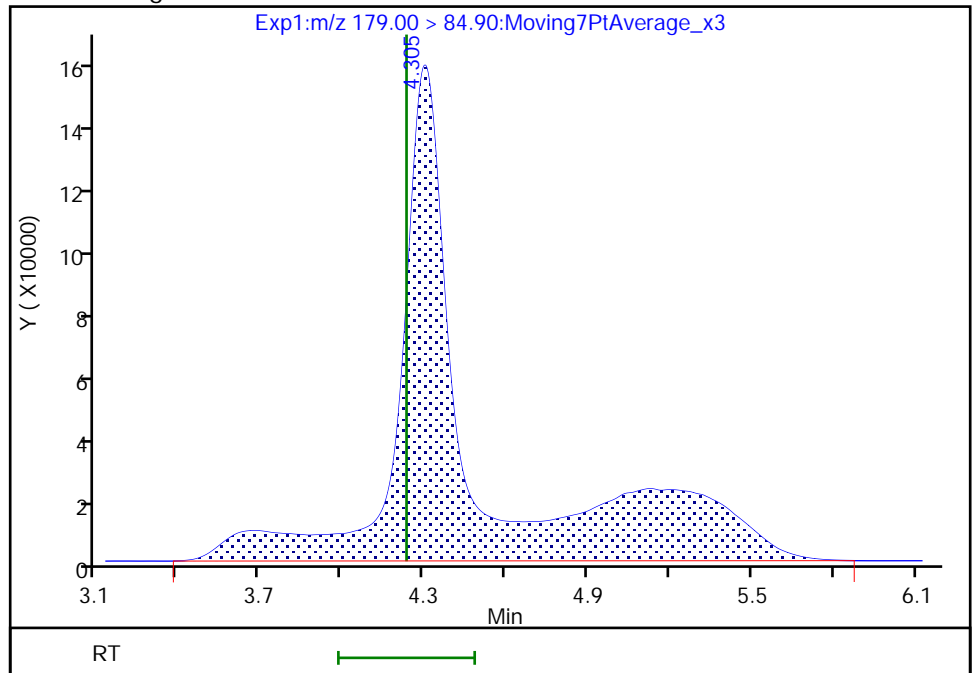
RT: 4.31  
Area: 1386949  
Amount: 0.149658  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 2884762  
Amount: 0.278959  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 11-Mar-2021 17:34:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_018.d  
 Lims ID: IC STD 9  
 Client ID:  
 Sample Type: IC Calib Level: 9  
 Inject. Date: 11-Mar-2021 15:46:20 ALS Bottle#: 18 Worklist Smp#: 15  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 9 (45)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:43:01 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: kwongg Date: 11-Mar-2021 16:36:30

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.288	4.235	0.053		5729803	0.5541		111	638	M
2 R-EVE										
405.00 > 217.00	6.407	6.390	0.017		3779800	0.5701		114	45555	
3 R-PSDA										
440.90 > 241.00	6.446	6.450	-0.004		1855418	0.5648		113	47552	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.526	6.529	-0.003		6951189	0.5430		109	88350	
23 PMPA										
229.00 > 185.00	6.779	6.782	-0.003		10078548	0.5253		105	17684	
5 NVHOS										
297.00 > 135.00	7.158	7.138	0.020		4089528	0.5597		112	77351	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		8156973	0.5288		106	73771	
22 PEPA										
278.90 > 234.90	8.295	8.299	-0.004		3696038	0.5546		111	25802	
7 PES										
314.90 > 135.00	8.555	8.556	-0.001		14505468	0.5994		120	223235	
8 PFECA B										
295.00 > 201.00	8.797	8.800	-0.003		5675655	0.5012		100	92910	
9 PFO3OA										
310.90 > 85.00	9.045	9.048	-0.003		2710693	0.5577		112	56196	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.130	9.133	-0.003		1956495	0.2514		101	33766	
11 HPFO-DA										
285.00 > 169.00	9.130	9.133	-0.003	1.000	4336556	0.5022		100	46270	



Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.490	9.493	-0.003		25578508	0.4727		94.5	133053	
13 Hydro-EVE Acid										
427.00 > 282.90	9.523	9.525	-0.002		36490724	0.4796		95.9	101936	
D 14 13C4 PFHpA										
367.00 > 322.00	9.555	9.558	-0.003		5276640	0.2156		86.2	69195	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.558	-0.003	1.000	11805867	0.4750	Target=0.00	95.0	71828	
363.00 > 169.00	9.555	9.558	-0.003	1.000	3495725		3.38(0.00-0.00)	95.0	30596	
15 Hydro-PS Acid										
463.00 > 262.90	9.555	9.558	-0.003		16403475	0.5231		105	138291	
17 PFECA G										
378.90 > 184.90	9.674	9.676	-0.002		2466289	0.4169		83.4	51801	
18 PFO4DA										
376.90 > 85.00	9.817	9.820	-0.003		2805185	0.4282		85.6	30051	
20 EVE Acid										
407.00 > 262.90	9.874	9.877	-0.003		20926403	0.4100		82.0	76930	
19 PS Acid										
443.00 > 146.90	9.874	9.877	-0.003		6680628	0.4973		99.5	71965	
21 TAF										
442.90 > 85.00	10.374	10.374	0.0		3126092	0.5432		109	5026	

**QC Flag Legend**

Processing Flags

Review Flags

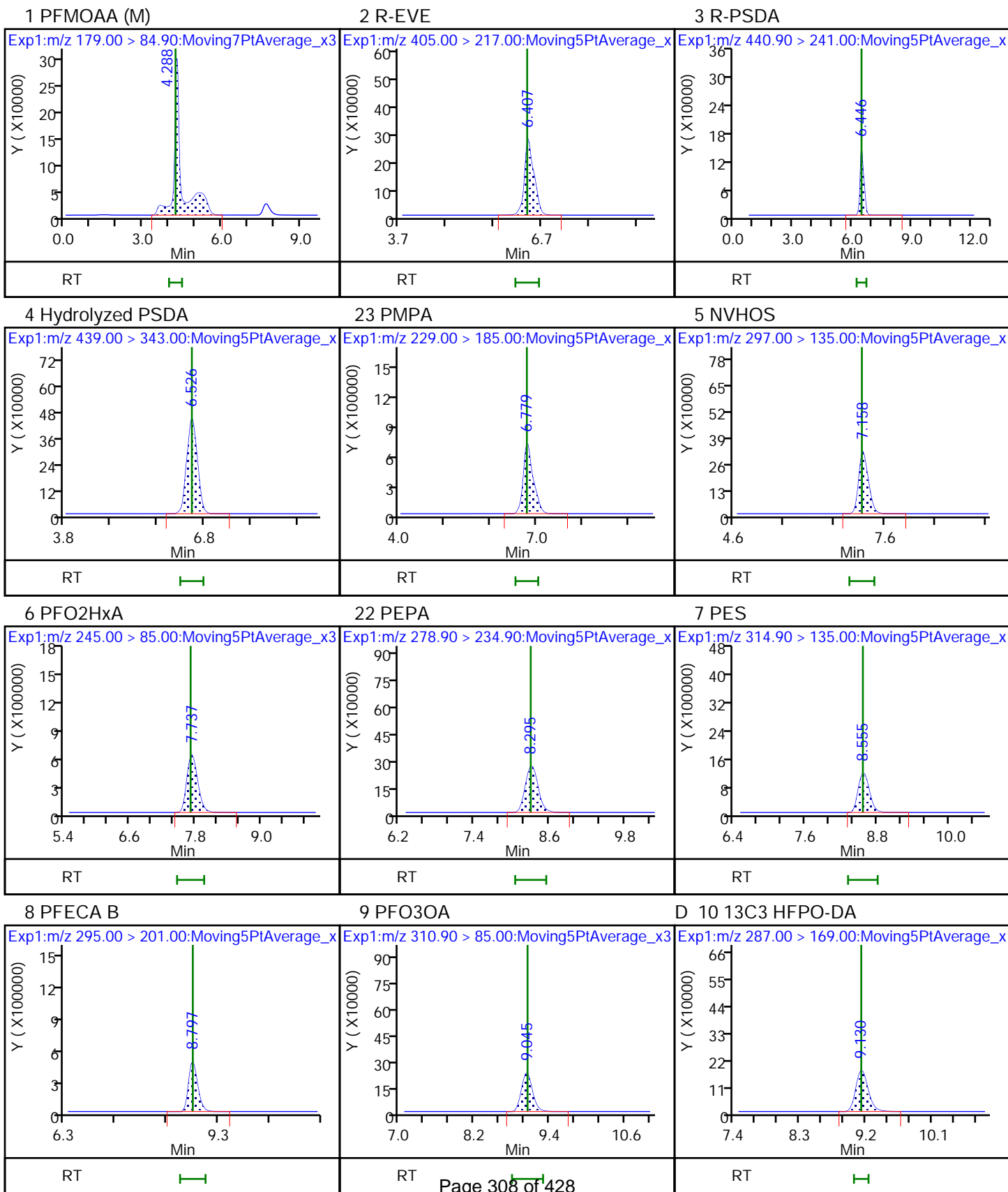
M - Manually Integrated

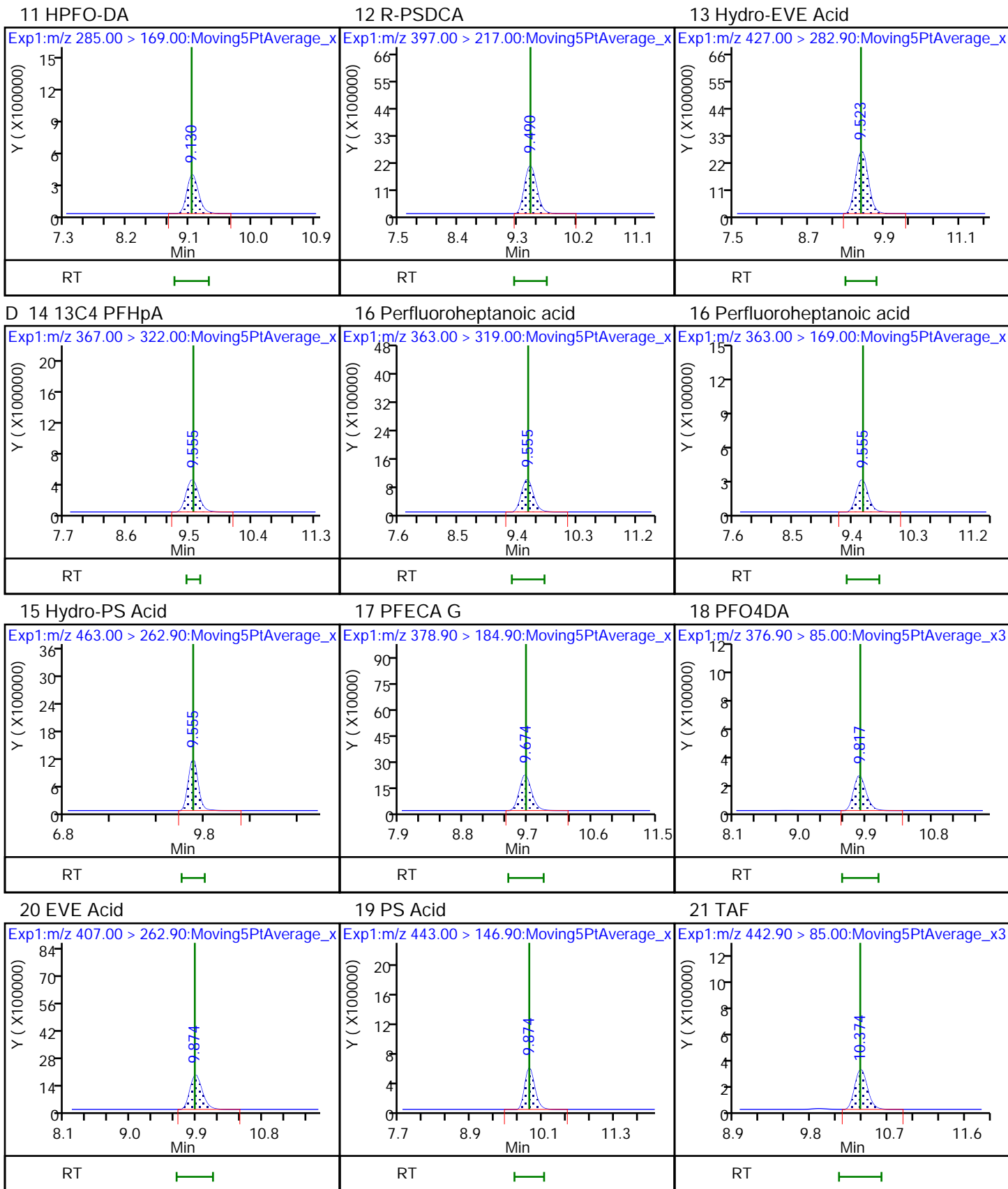
**Reagents:**

LCTB3\_LLSTD9\_00044

Amount Added: 1.00

Units: mL







Eurofins TestAmerica, Sacramento

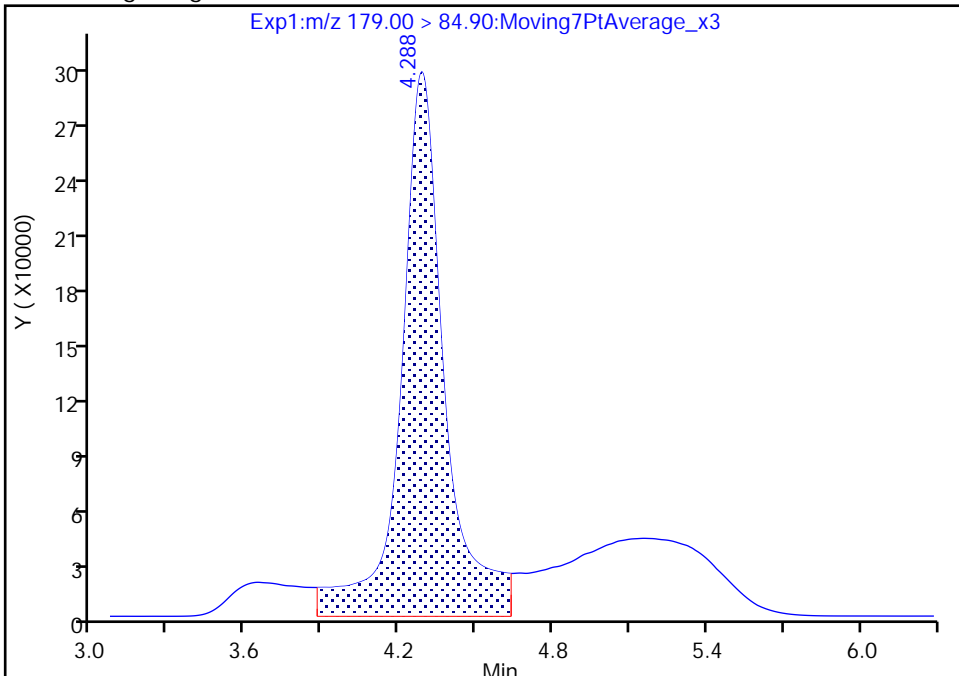
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_018.d  
Injection Date: 11-Mar-2021 15:46:20 Instrument ID: A12  
Lims ID: IC STD 9  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 15  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

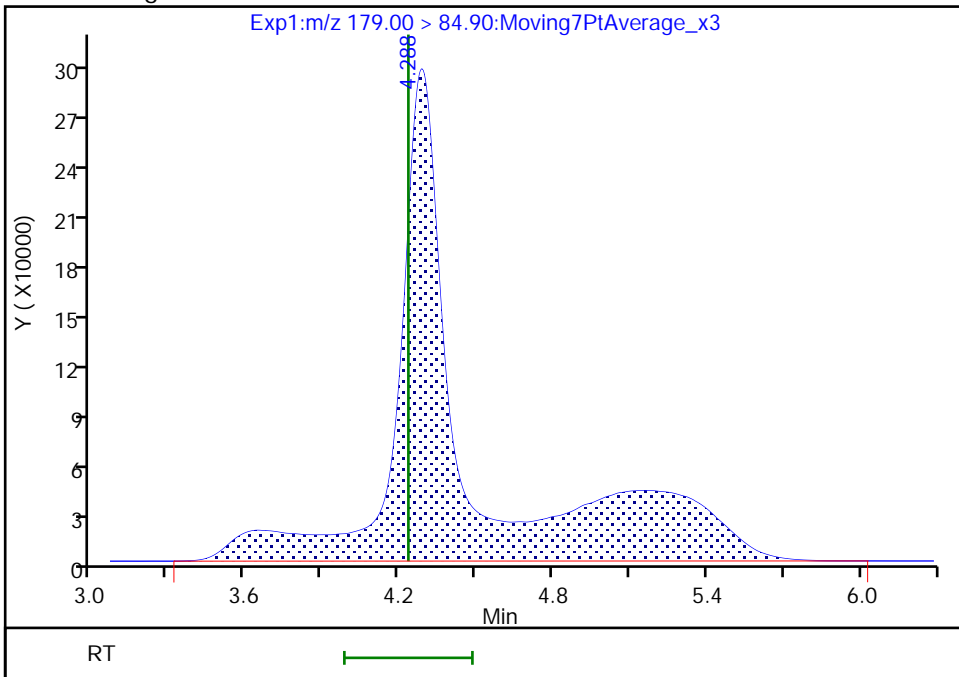
RT: 4.29  
Area: 3532447  
Amount: 0.364605  
Amount Units: ng/ml

Processing Integration Results



RT: 4.29  
Area: 5729803  
Amount: 0.554077  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 11-Mar-2021 16:36:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 311 of 428

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Lims ID: IC STD 10  
 Client ID:  
 Sample Type: IC Calib Level: 10  
 Inject. Date: 11-Mar-2021 16:03:54 ALS Bottle#: 19 Worklist Smp#: 16  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: IC STD 10 (44)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:43:03 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: kwongg Date: 11-Mar-2021 16:42:55

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.776	4.235	-0.459		11493204	1.11		111	226	M
2 R-EVE										
405.00 > 217.00	6.347	6.390	-0.043		7519979	1.13		113	29625	
3 R-PSDA										
440.90 > 241.00	6.407	6.450	-0.043		3735435	1.14		114	43601	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.506	6.529	-0.023		13670791	1.07		107	113056	
23 PMPA										
229.00 > 185.00	6.732	6.782	-0.050		20226211	1.06		106	38081	
5 NVHOS										
297.00 > 135.00	7.134	7.138	-0.004		8052787	1.10		110	106318	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		16248356	1.05		105	111849	
22 PEPA										
278.90 > 234.90	8.295	8.299	-0.004		7292414	1.09		109	44454	
7 PES										
314.90 > 135.00	8.588	8.556	0.032		30218151	1.25		125	452705	
8 PFECA B										
295.00 > 201.00	8.798	8.800	-0.002		10862667	0.9592		95.9	172996	
9 PFO3OA										
310.90 > 85.00	9.047	9.048	-0.001		5196365	1.07		107	86218	
11 HPFO-DA										
285.00 > 169.00	9.160	9.133	0.027	1.003	8290063	1.01		101	78300	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.131	9.133	-0.002		1859492	0.2390		95.6	31571	

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.491	9.493	-0.002		40333918	0.7454		74.5	116266	
13 Hydro-EVE Acid										
427.00 > 282.90	9.556	9.525	0.031		63520565	0.8349		83.5	110728	
D 14 13C4 PFHpA										
367.00 > 322.00	9.556	9.558	-0.002		4346479	0.1776		71.0	57436	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.556	9.558	-0.002	1.000	19500901	0.9530	Target=0.00	95.3	73821	
363.00 > 169.00	9.556	9.558	-0.002	1.000	5744200		3.39(0.00-0.00)	95.3	41400	
15 Hydro-PS Acid										
463.00 > 262.90	9.556	9.558	-0.002		30747606	0.9805		98.1	129052	
17 PFECA G										
378.90 > 184.90	9.675	9.676	-0.001		3909864	0.6610		66.1	82630	
18 PFO4DA										
376.90 > 85.00	9.818	9.820	-0.002		4942284	0.7544		75.4	35492	
20 EVE Acid										
407.00 > 262.90	9.904	9.877	0.027		31241621	0.6121		61.2	68164	
19 PS Acid										
443.00 > 146.90	9.876	9.877	-0.001		11215856	0.8349		83.5	73644	
21 TAF										
442.90 > 85.00	10.401	10.374	0.027		5021736	0.8725		87.3	5007	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLSTD10\_00043

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d

Injection Date: 11-Mar-2021 16:03:54

Instrument ID: A12

Lims ID: IC STD 10

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 19

Worklist Smp#: 16

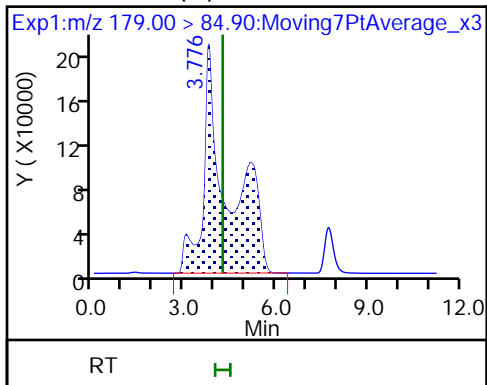
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

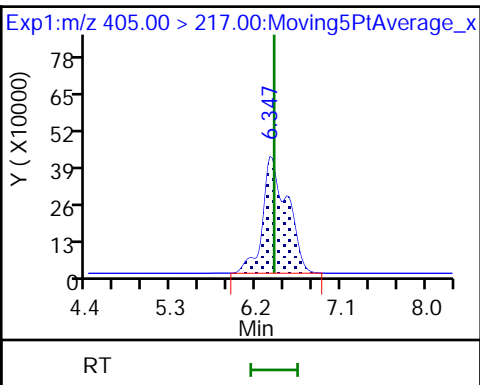
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

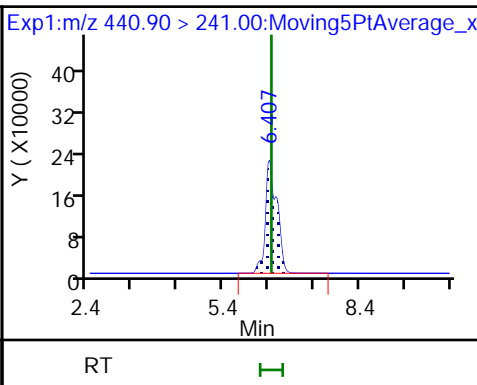
1 PFMOAA (M)



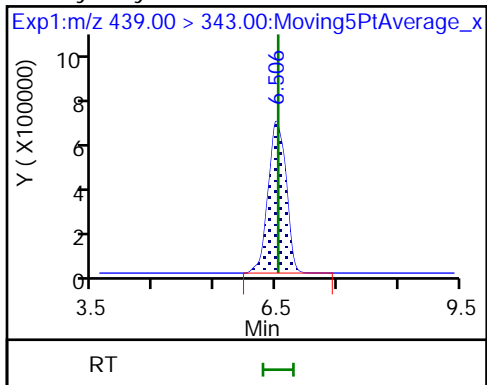
2 R-EVE



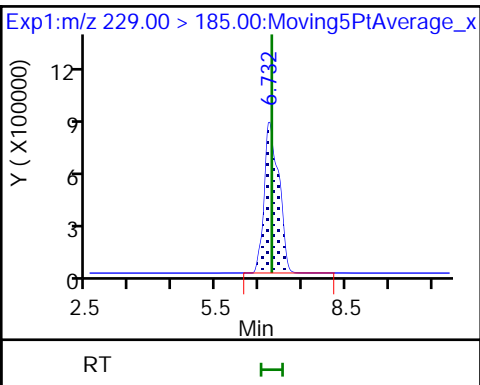
3 R-PSDA



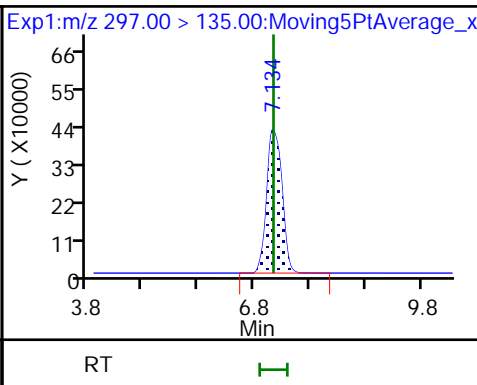
4 Hydrolyzed PSDA



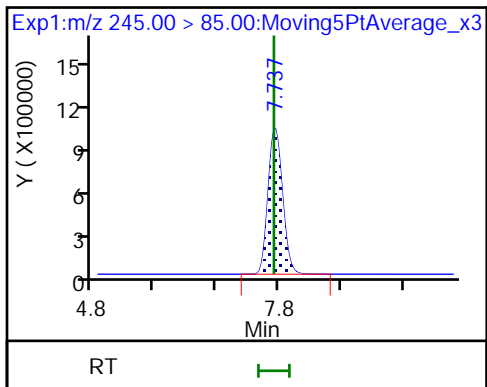
23 PMPA



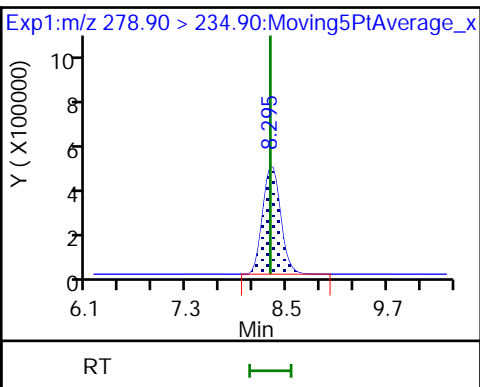
5 NVHOS



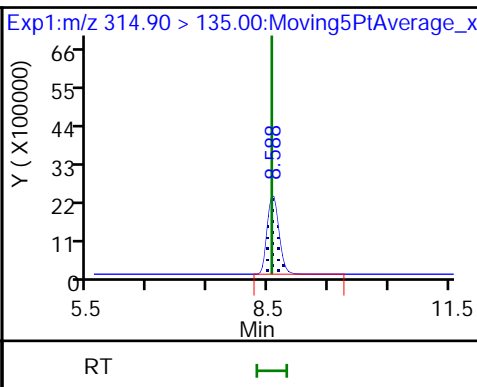
6 PFO2HxA



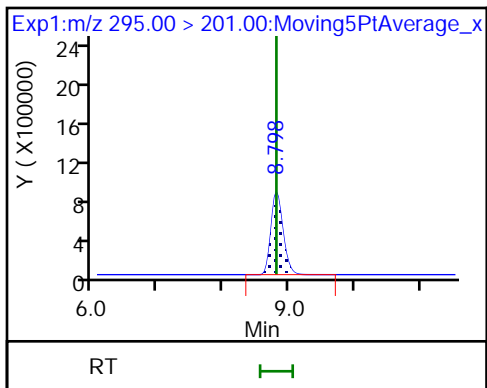
22 PEPA



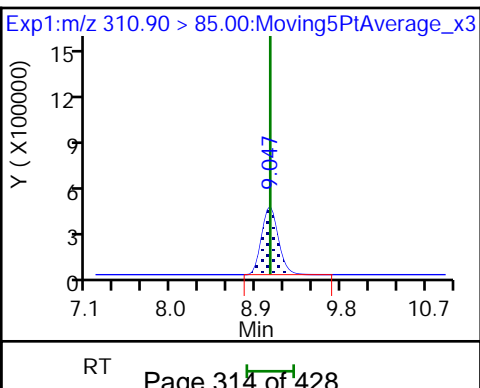
7 PES



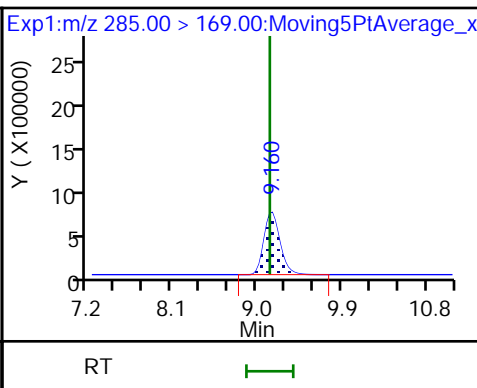
8 PFECA B



9 PFO3OA



11 HPFO-DA

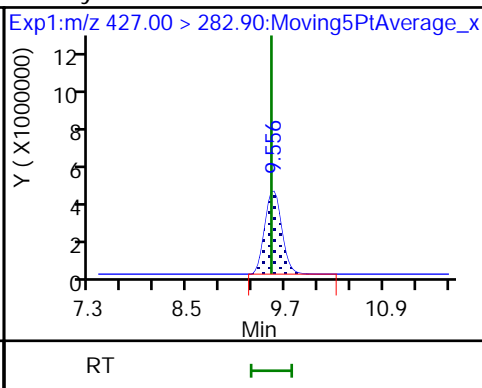
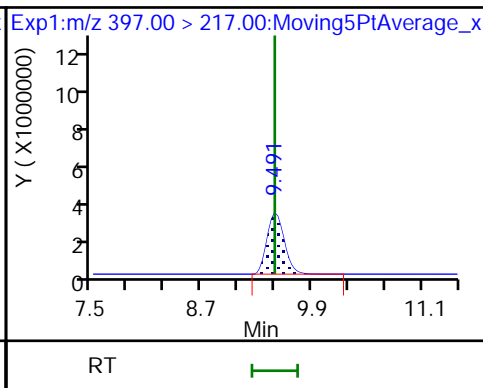
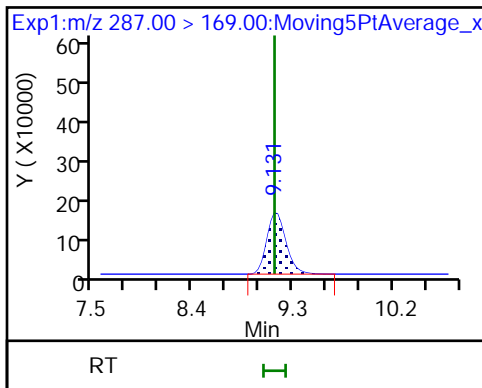




D 10 13C3 HFPO-DA

12 R-PSDCA

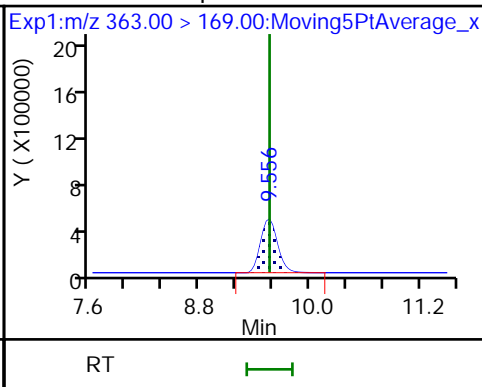
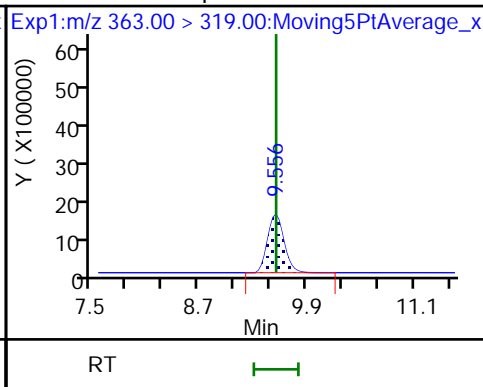
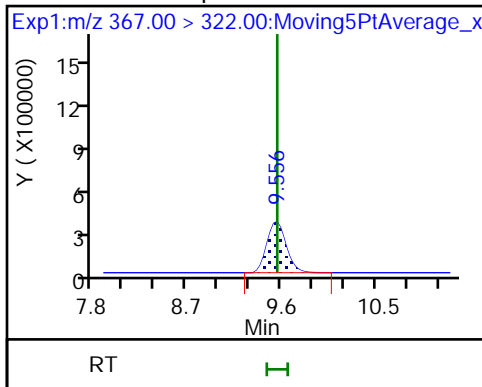
13 Hydro-EVE Acid



D 14 13C4 PFHpA

16 Perfluoroheptanoic acid

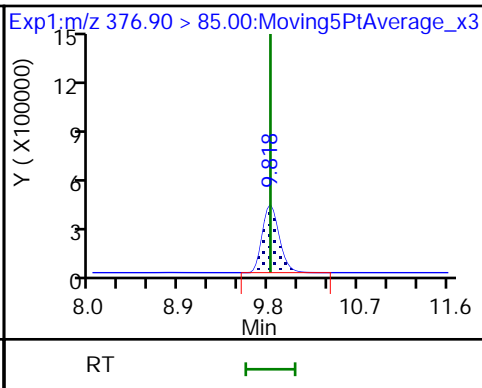
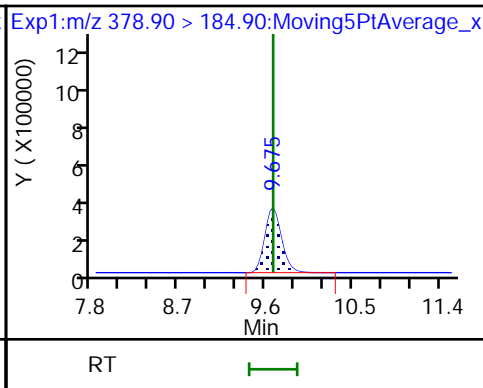
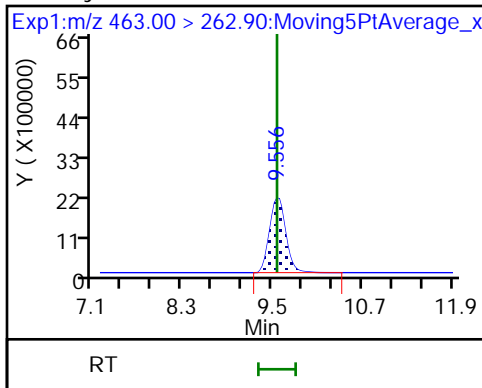
16 Perfluoroheptanoic acid



15 Hydro-PS Acid

17 PFECA G

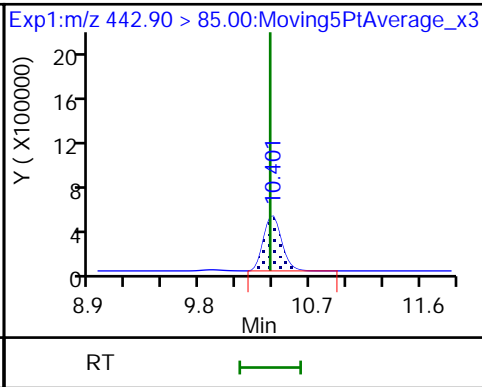
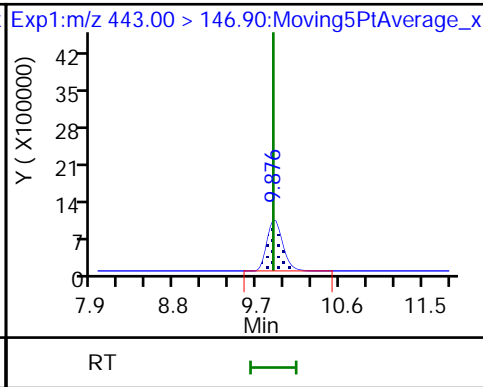
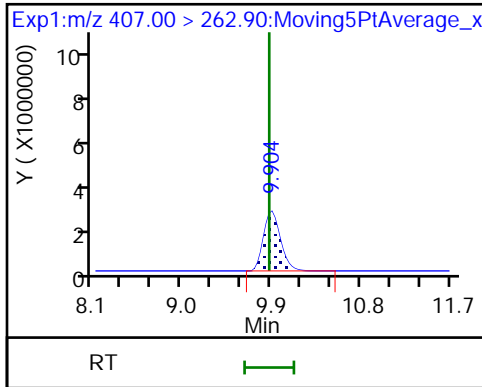
18 PFO4DA



20 EVE Acid

19 PS Acid

21 TAF





Eurofins TestAmerica, Sacramento

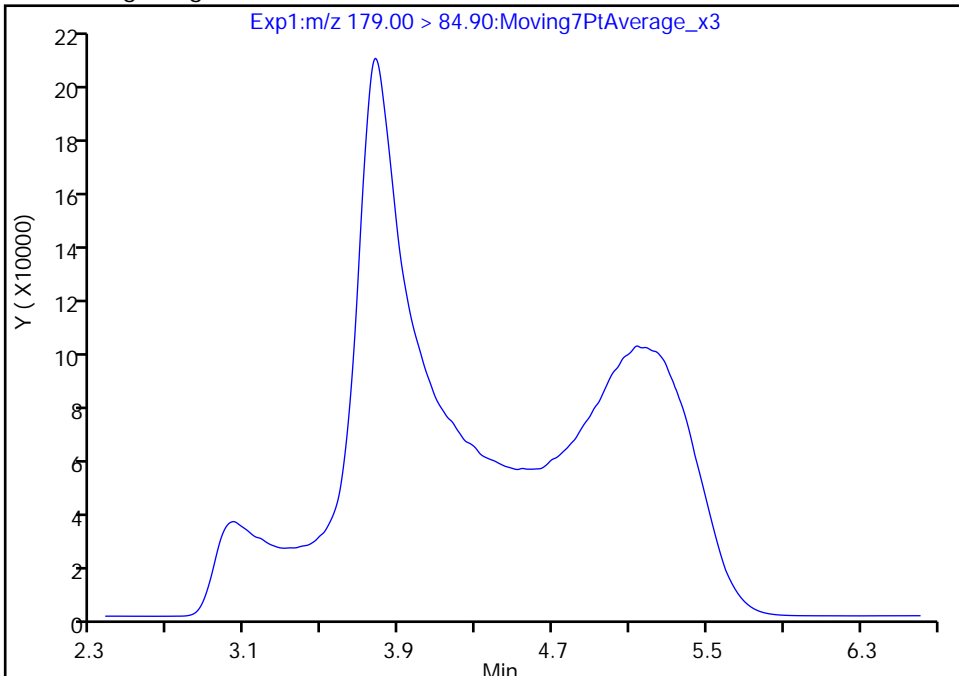
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
Injection Date: 11-Mar-2021 16:03:54 Instrument ID: A12  
Lims ID: IC STD 10  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 19 Worklist Smp#: 16  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

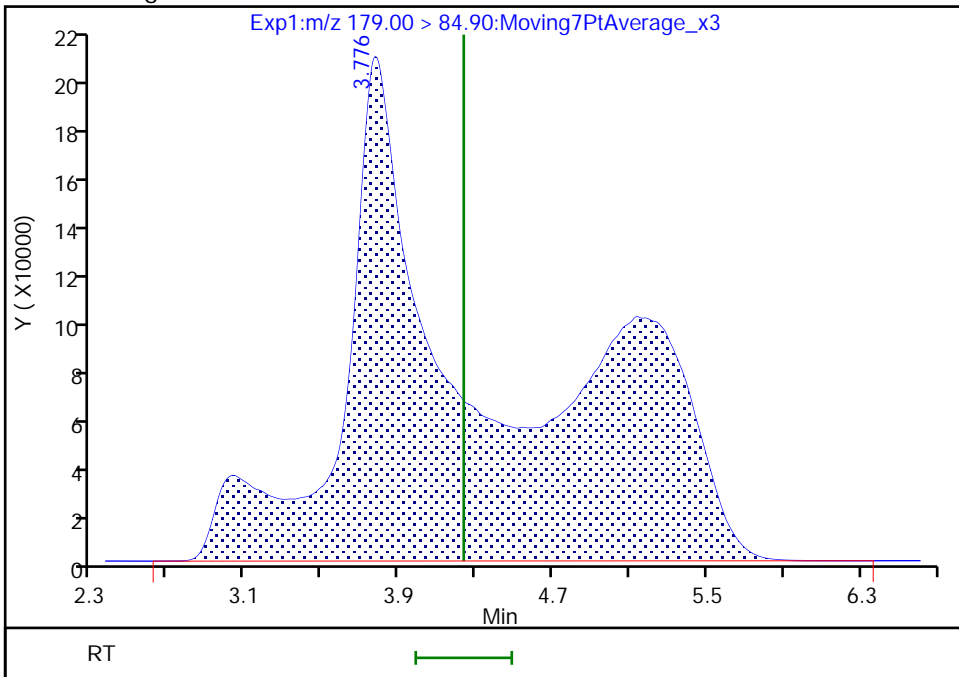
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 3.78  
Area: 11493204  
Amount: 1.111403  
Amount Units: ng/ml



Reviewer: kwongg, 11-Mar-2021 16:42:38  
Audit Action: Manually Integrated

Calibration

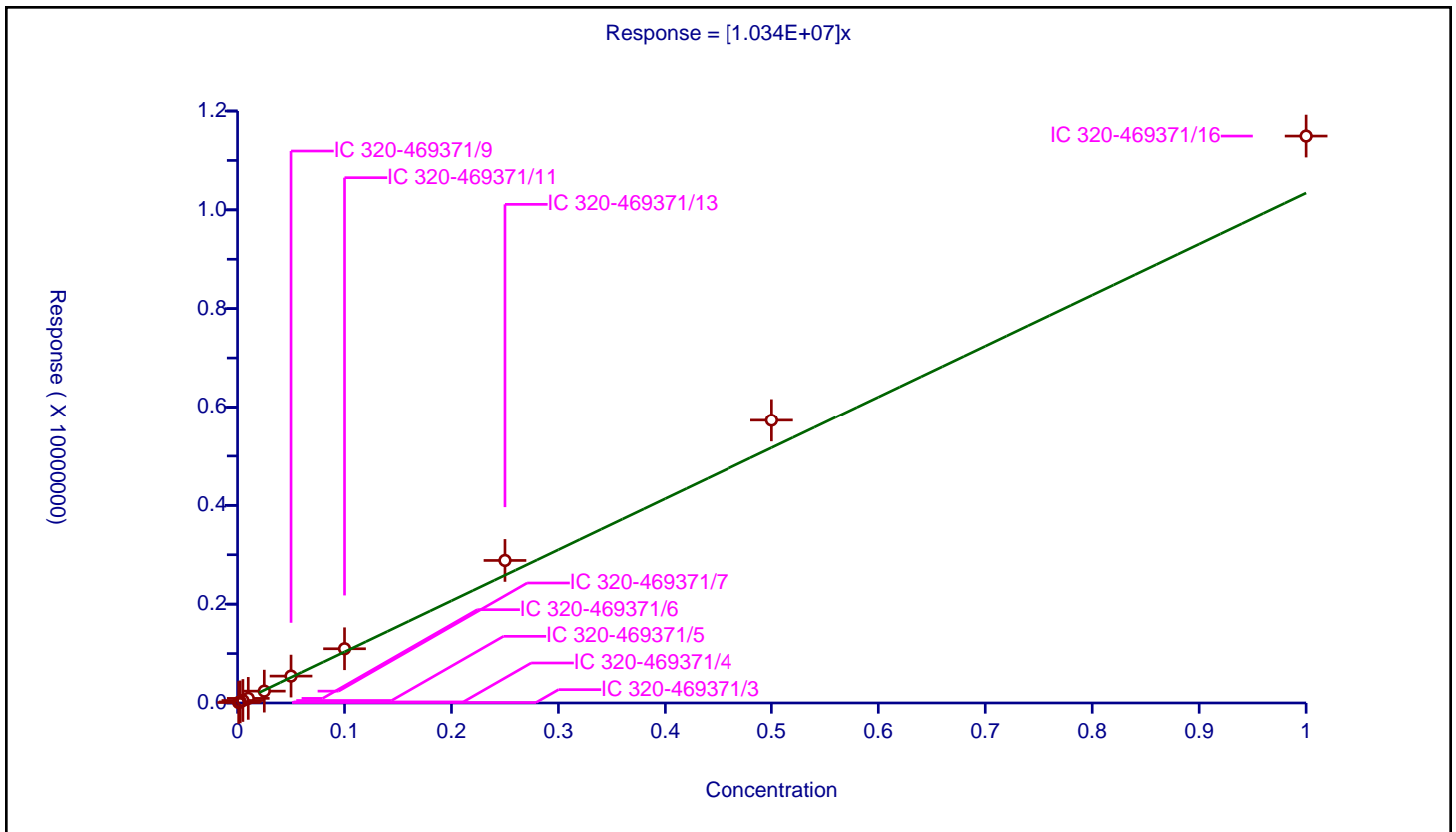
/ PFMOAA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.034E+07

Error Coefficients	
Standard Error:	439000
Relative Standard Error:	10.2
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.988

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	9219.0			9219000.0	Y
2	IC 320-469371/4	0.0025	21923.0			8769200.0	Y
3	IC 320-469371/5	0.005	50710.0			10142000.0	Y
4	IC 320-469371/6	0.01	93270.0			9327000.0	Y
5	IC 320-469371/7	0.025	240014.0			9600560.0	Y
6	IC 320-469371/9	0.05	544295.0			10885900.0	Y
7	IC 320-469371/11	0.1	1097611.0			10976110.0	Y
8	IC 320-469371/13	0.25	2884762.0			11539048.0	Y
9	IC 320-469371/15	0.5	5729803.0			11459606.0	Y
10	IC 320-469371/16	1.0	11493204.0			11493204.0	Y



Calibration

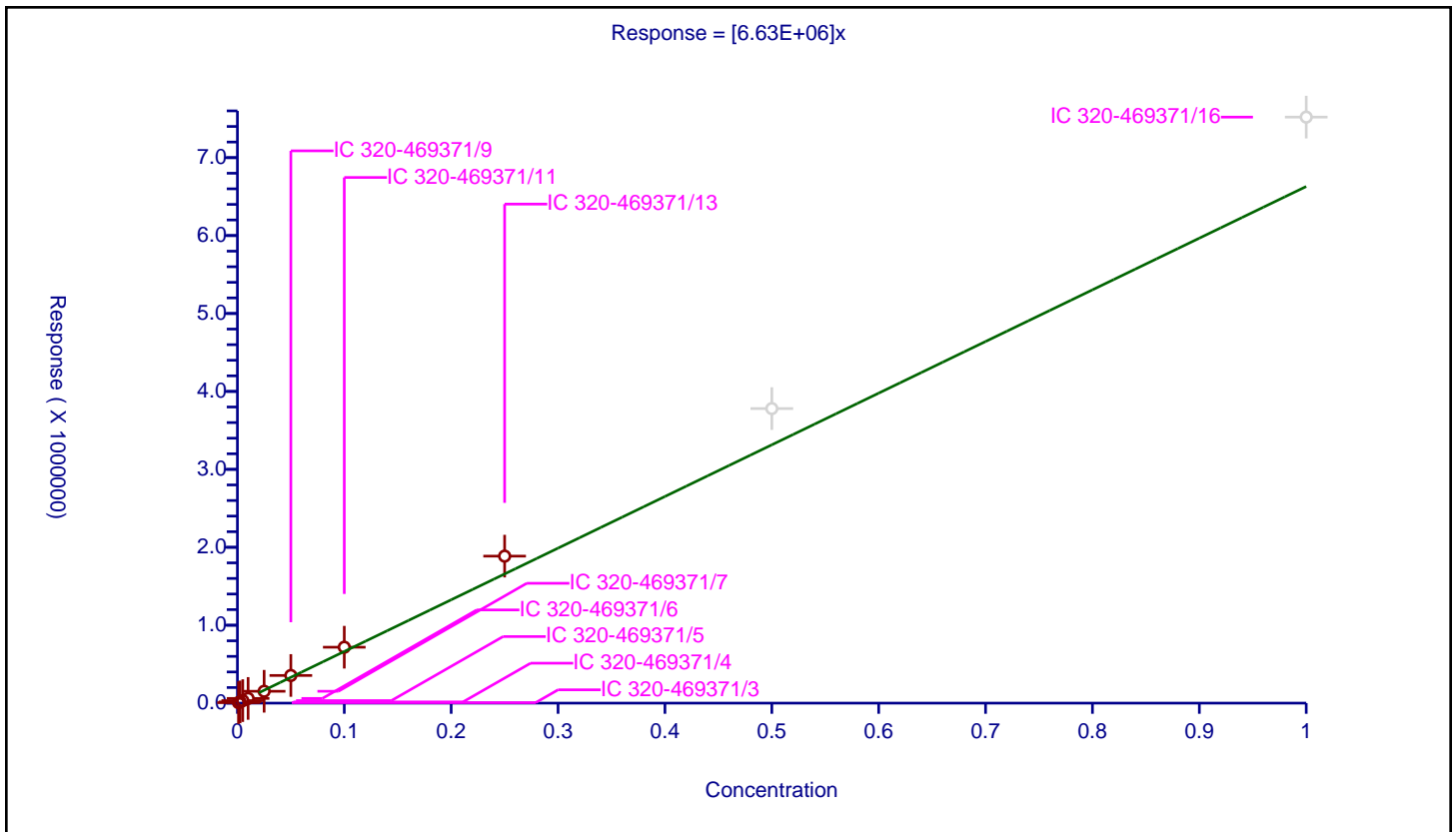
/ R-EVE

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.63E+06

Error Coefficients	
Standard Error:	89600
Relative Standard Error:	8.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	6451.0			6451000.0	Y
2	IC 320-469371/4	0.0025	15429.0			6171600.0	Y
3	IC 320-469371/5	0.005	32328.0			6465600.0	Y
4	IC 320-469371/6	0.01	60366.0			6036600.0	Y
5	IC 320-469371/7	0.025	152289.0			6091560.0	Y
6	IC 320-469371/9	0.05	354928.0			7098560.0	Y
7	IC 320-469371/11	0.1	717544.0			7175440.0	Y
8	IC 320-469371/13	0.25	1886476.0			7545904.0	Y
9	IC 320-469371/15	0.5	3779800.0			7559600.0	N
10	IC 320-469371/16	1.0	7519979.0			7519979.0	N



Calibration

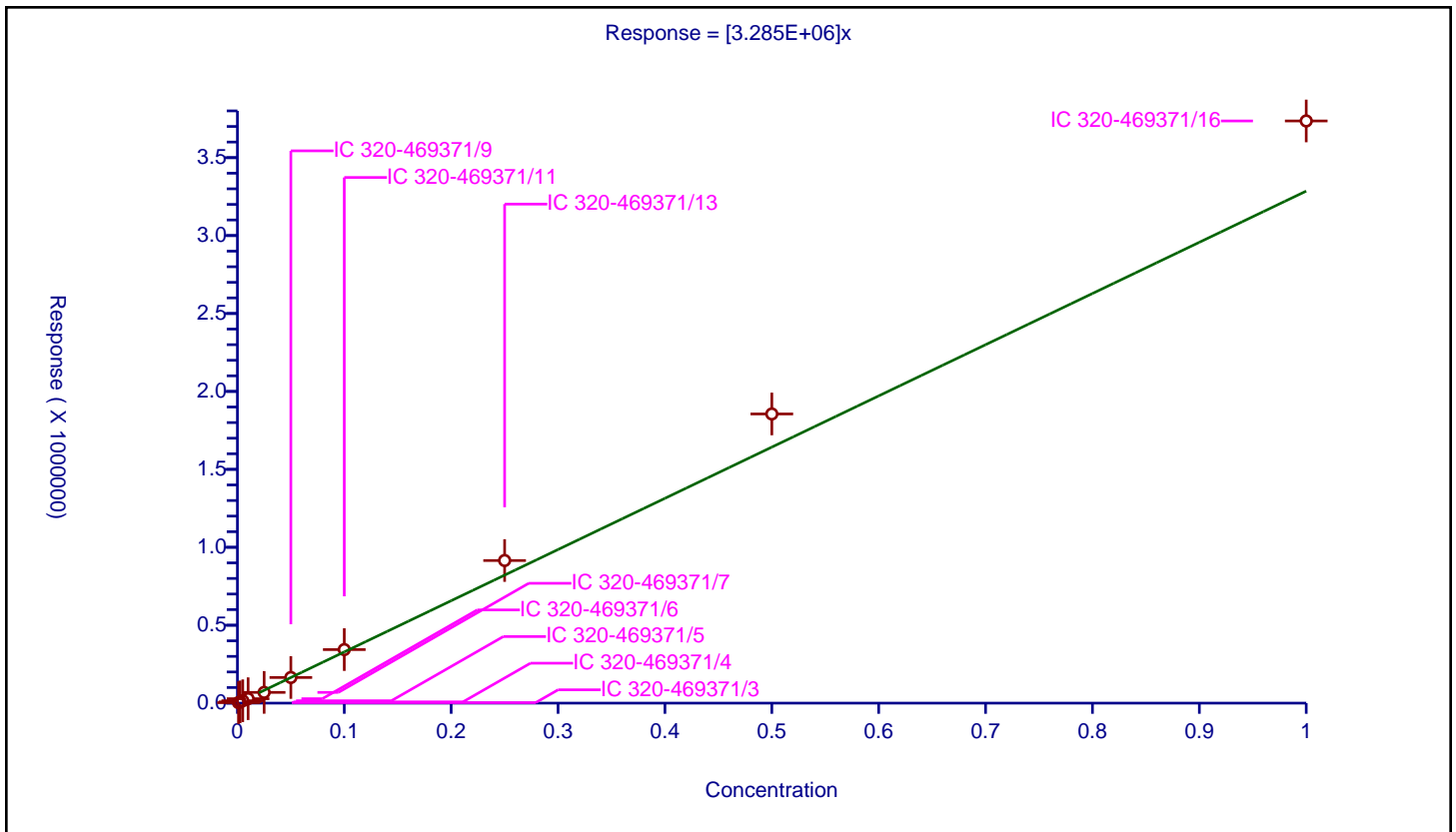
/ R-PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.285E+06

Error Coefficients	
Standard Error:	169000
Relative Standard Error:	10.7
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.987

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	3111.0			3111000.0	Y
2	IC 320-469371/4	0.0025	8160.0			3264000.0	Y
3	IC 320-469371/5	0.005	15251.0			3050200.0	Y
4	IC 320-469371/6	0.01	28396.0			2839600.0	Y
5	IC 320-469371/7	0.025	68877.0			2755080.0	Y
6	IC 320-469371/9	0.05	164536.0			3290720.0	Y
7	IC 320-469371/11	0.1	343646.0			3436460.0	Y
8	IC 320-469371/13	0.25	915063.0			3660252.0	Y
9	IC 320-469371/15	0.5	1855418.0			3710836.0	Y
10	IC 320-469371/16	1.0	3735435.0			3735435.0	Y



**Calibration**

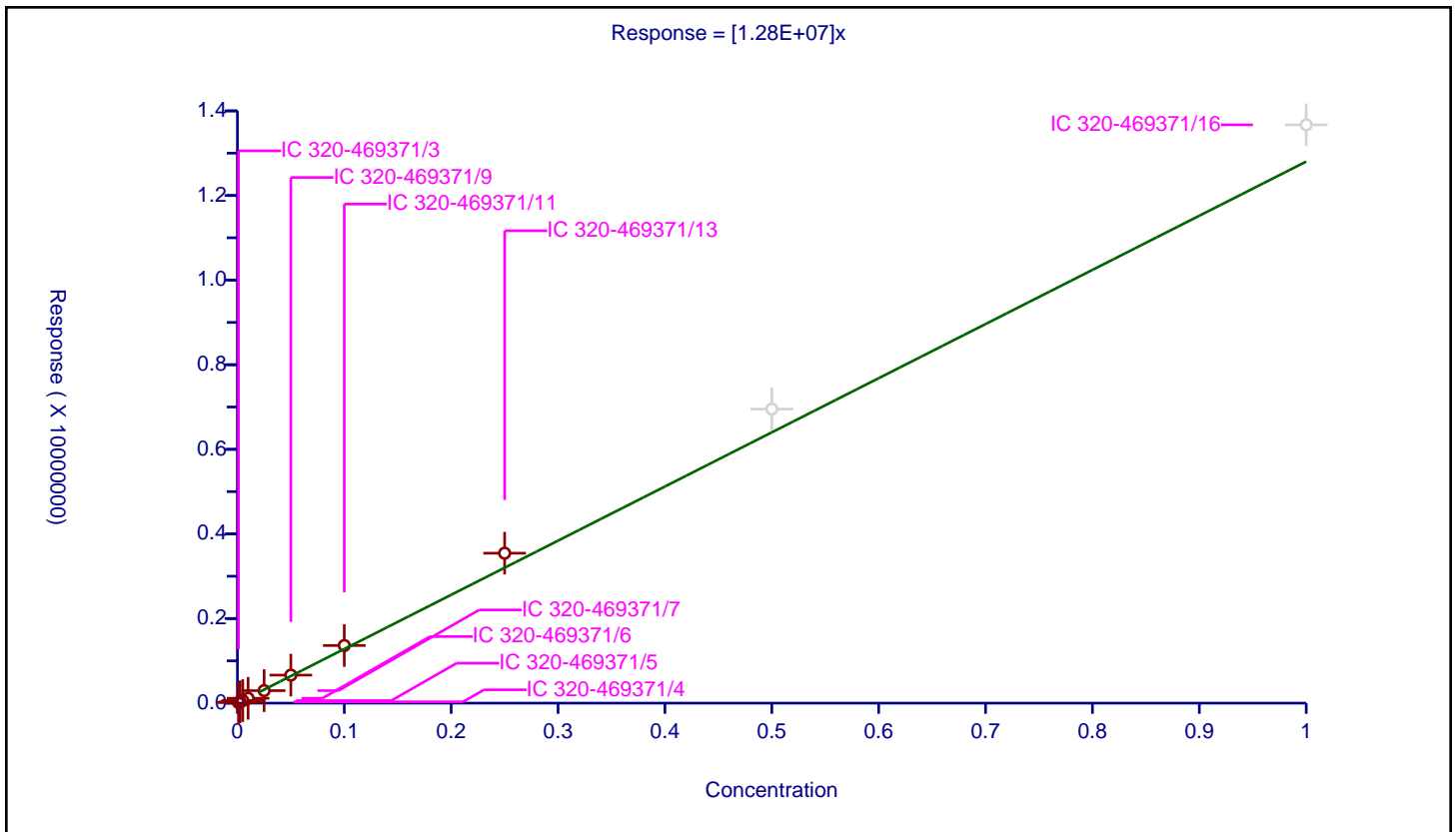
/ Hydrolyzed PSDA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.28E+07

Error Coefficients	
Standard Error:	134000
Relative Standard Error:	7.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.992

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	13566.0			13566000.0	Y
2	IC 320-469371/4	0.0025	31009.0			12403600.0	Y
3	IC 320-469371/5	0.005	60209.0			12041800.0	Y
4	IC 320-469371/6	0.01	115120.0			11512000.0	Y
5	IC 320-469371/7	0.025	295909.0			11836360.0	Y
6	IC 320-469371/9	0.05	662702.0			13254040.0	Y
7	IC 320-469371/11	0.1	1362003.0			13620030.0	Y
8	IC 320-469371/13	0.25	3544376.0			14177504.0	Y
9	IC 320-469371/15	0.5	6951189.0			13902378.0	N
10	IC 320-469371/16	1.0	13670791.0			13670791.0	N



Calibration

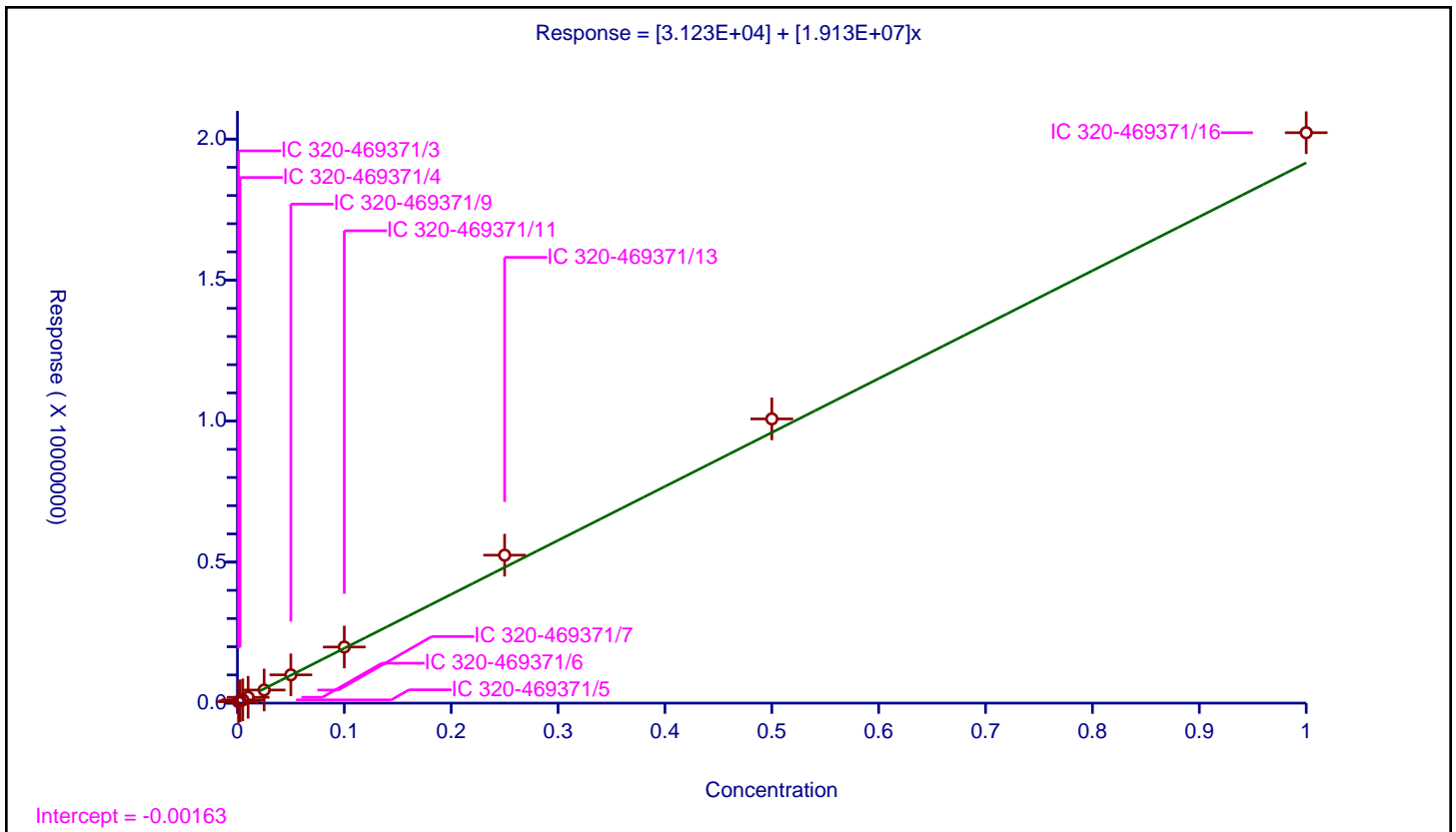
/ PMPA

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	3.123E+04
Slope:	1.913E+07

Error Coefficients	
Standard Error:	442000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	50687.0			50687000.0	Y
2	IC 320-469371/4	0.0025	81343.0			32537200.0	Y
3	IC 320-469371/5	0.005	114576.0			22915200.0	Y
4	IC 320-469371/6	0.01	207214.0			20721400.0	Y
5	IC 320-469371/7	0.025	465023.0			18600920.0	Y
6	IC 320-469371/9	0.05	1002439.0			20048780.0	Y
7	IC 320-469371/11	0.1	1989388.0			19893880.0	Y
8	IC 320-469371/13	0.25	5246716.0			20986864.0	Y
9	IC 320-469371/15	0.5	10078548.0			20157096.0	Y
10	IC 320-469371/16	1.0	20226211.0			20226211.0	Y





Calibration

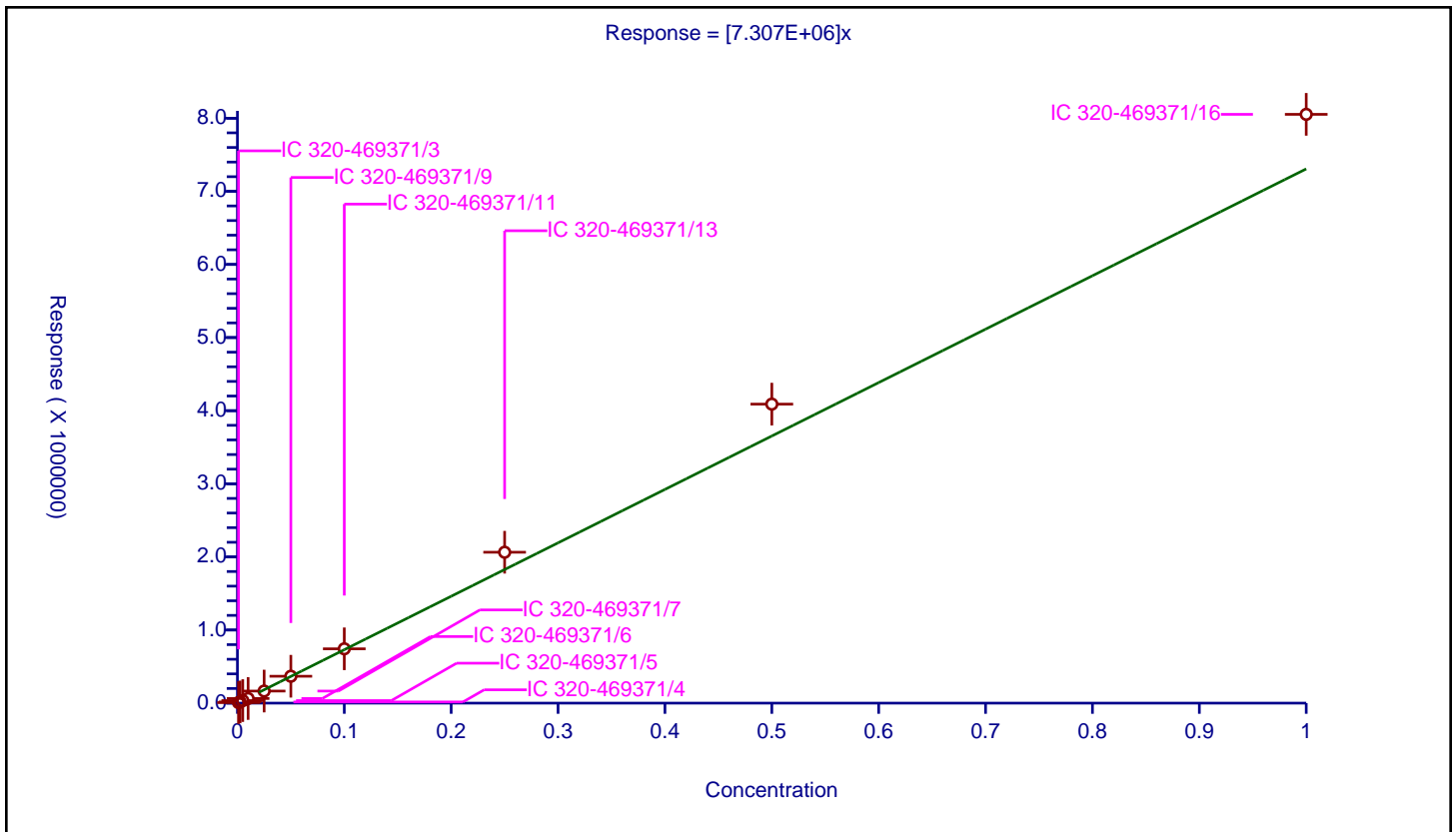
/ NVHOS

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	7.307E+06

Error Coefficients	
Standard Error:	299000
Relative Standard Error:	9.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.989

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	7401.0			7401000.0	Y
2	IC 320-469371/4	0.0025	16282.0			6512800.0	Y
3	IC 320-469371/5	0.005	34724.0			6944800.0	Y
4	IC 320-469371/6	0.01	63199.0			6319900.0	Y
5	IC 320-469371/7	0.025	165347.0			6613880.0	Y
6	IC 320-469371/9	0.05	367865.0			7357300.0	Y
7	IC 320-469371/11	0.1	742911.0			7429110.0	Y
8	IC 320-469371/13	0.25	2063902.0			8255608.0	Y
9	IC 320-469371/15	0.5	4089528.0			8179056.0	Y
10	IC 320-469371/16	1.0	8052787.0			8052787.0	Y



Calibration

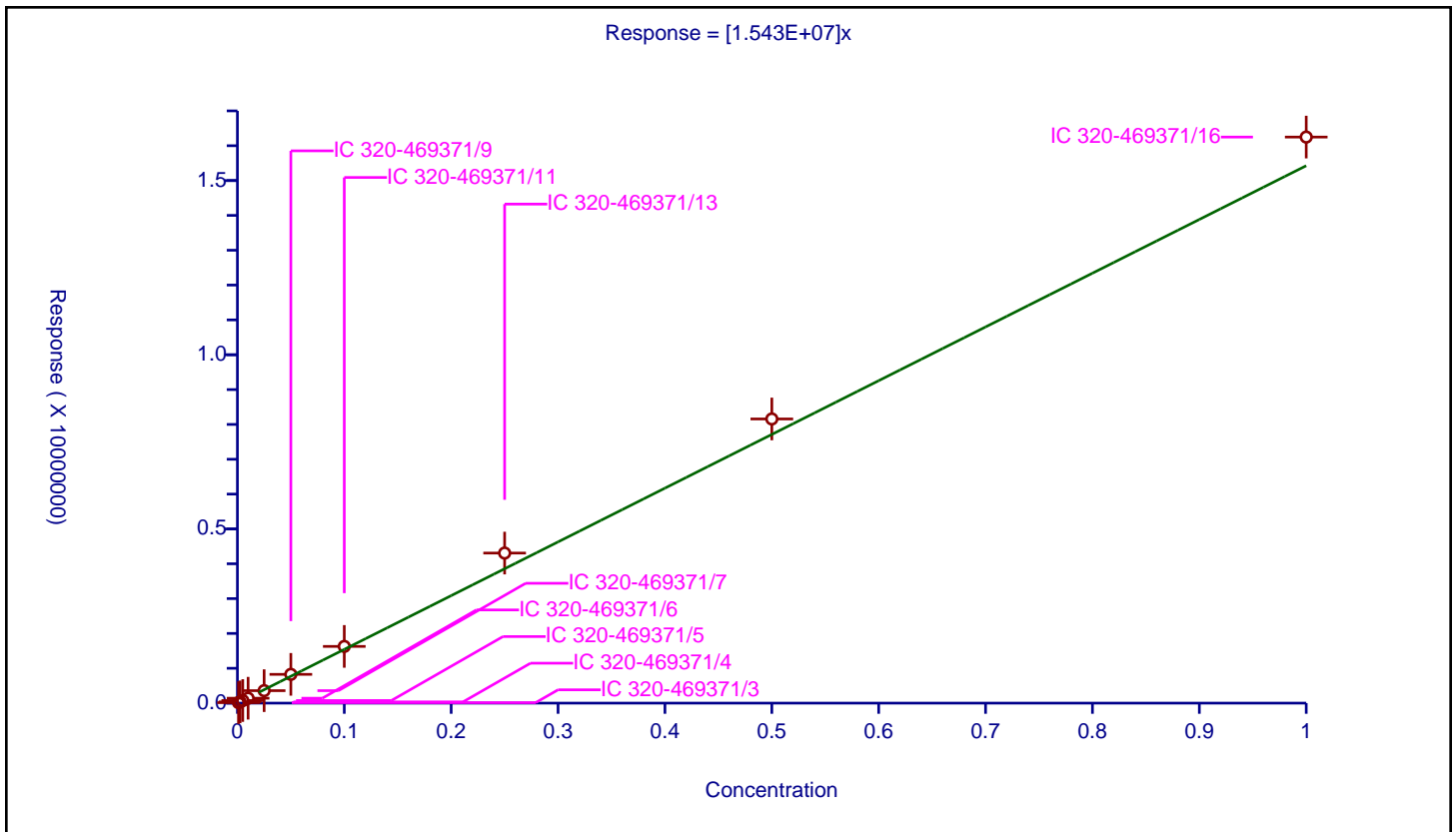
/ PFO2HxA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.543E+07

Error Coefficients	
Standard Error:	348000
Relative Standard Error:	7.8
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.993

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	14170.0			14170000.0	Y
2	IC 320-469371/4	0.0025	35582.0			14232800.0	Y
3	IC 320-469371/5	0.005	74175.0			14835000.0	Y
4	IC 320-469371/6	0.01	141071.0			14107100.0	Y
5	IC 320-469371/7	0.025	357950.0			14318000.0	Y
6	IC 320-469371/9	0.05	826140.0			16522800.0	Y
7	IC 320-469371/11	0.1	1628154.0			16281540.0	Y
8	IC 320-469371/13	0.25	4307590.0			17230360.0	Y
9	IC 320-469371/15	0.5	8156973.0			16313946.0	Y
10	IC 320-469371/16	1.0	16248356.0			16248356.0	Y



Calibration

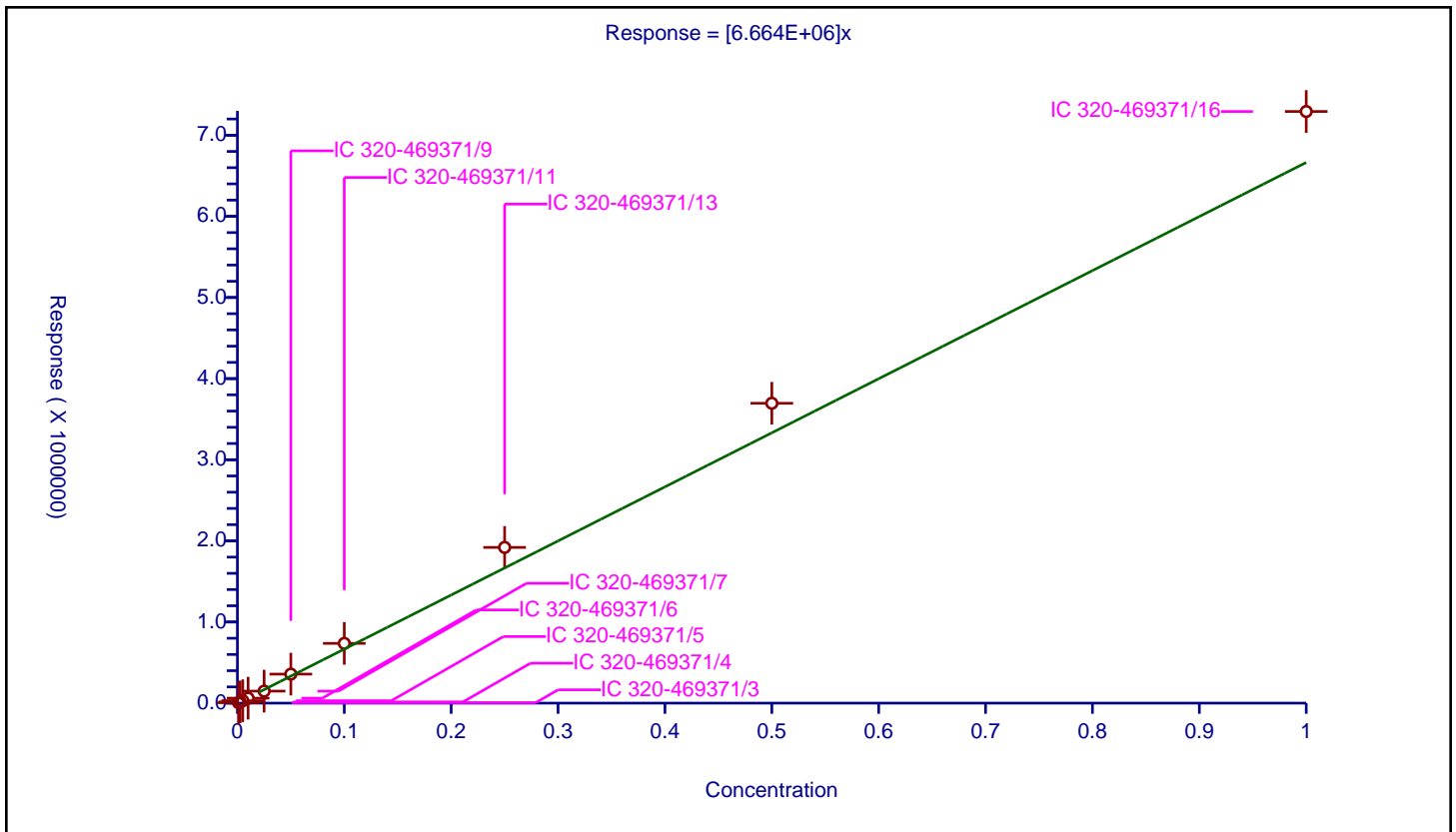
/ PEPA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.664E+06

Error Coefficients	
Standard Error:	258000
Relative Standard Error:	11.5
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	0.985

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	5713.0			5713000.0	Y
2	IC 320-469371/4	0.0025	15222.0			6088800.0	Y
3	IC 320-469371/5	0.005	29652.0			5930400.0	Y
4	IC 320-469371/6	0.01	61087.0			6108700.0	Y
5	IC 320-469371/7	0.025	148061.0			5922440.0	Y
6	IC 320-469371/9	0.05	357518.0			7150360.0	Y
7	IC 320-469371/11	0.1	736614.0			7366140.0	Y
8	IC 320-469371/13	0.25	1919218.0			7676872.0	Y
9	IC 320-469371/15	0.5	3696038.0			7392076.0	Y
10	IC 320-469371/16	1.0	7292414.0			7292414.0	Y



**Calibration**

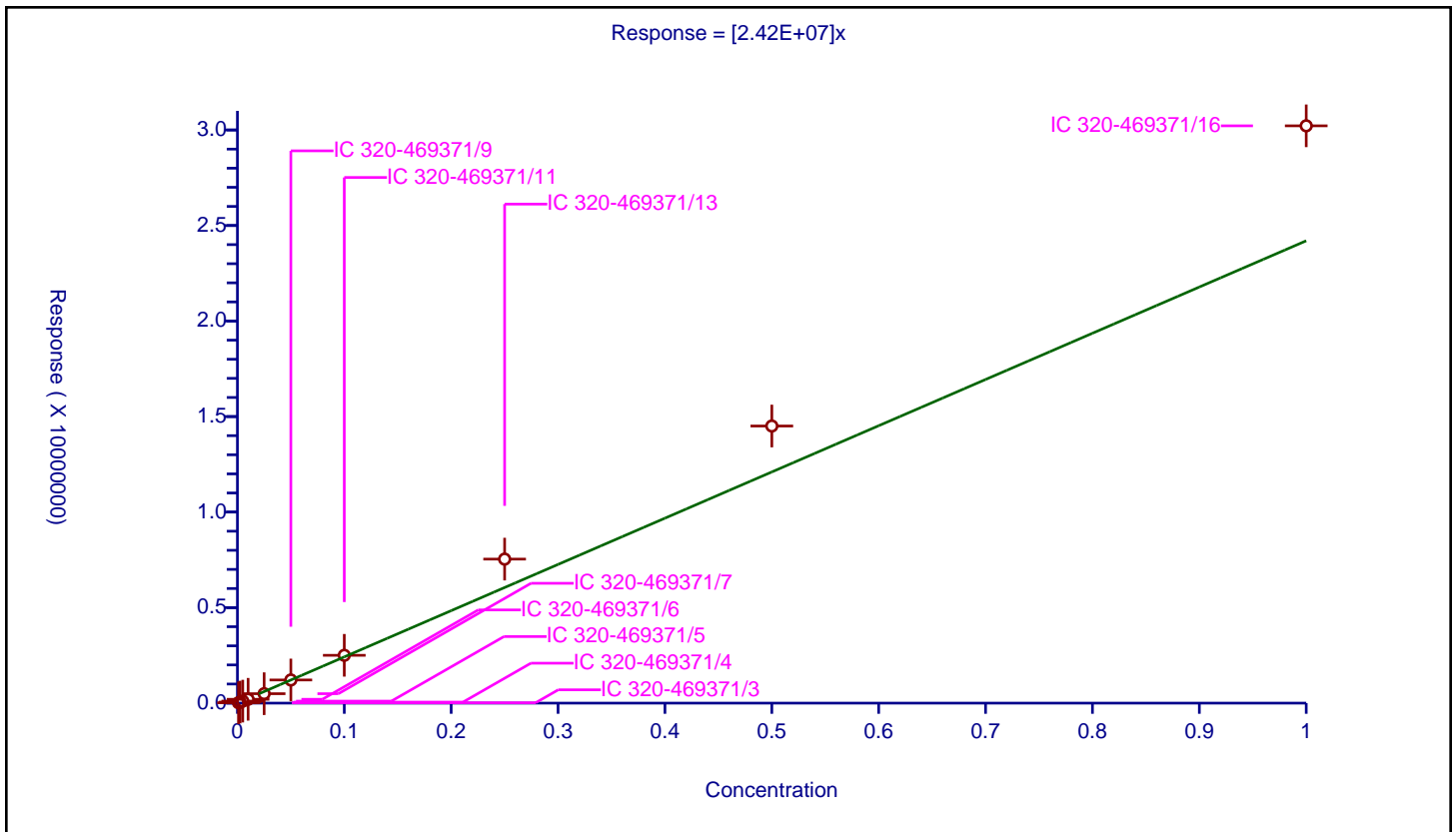
/ PES

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	2.42E+07

Error Coefficients	
Standard Error:	2220000
Relative Standard Error:	17.4
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.967

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	20899.0			20899000.0	Y
2	IC 320-469371/4	0.0025	53728.0			21491200.0	Y
3	IC 320-469371/5	0.005	105328.0			21065600.0	Y
4	IC 320-469371/6	0.01	201224.0			20122400.0	Y
5	IC 320-469371/7	0.025	493930.0			19757200.0	Y
6	IC 320-469371/9	0.05	1212458.0			24249160.0	Y
7	IC 320-469371/11	0.1	2503517.0			25035170.0	Y
8	IC 320-469371/13	0.25	7538475.0			30153900.0	Y
9	IC 320-469371/15	0.5	14505468.0			29010936.0	Y
10	IC 320-469371/16	1.0	30218151.0			30218151.0	Y



Calibration

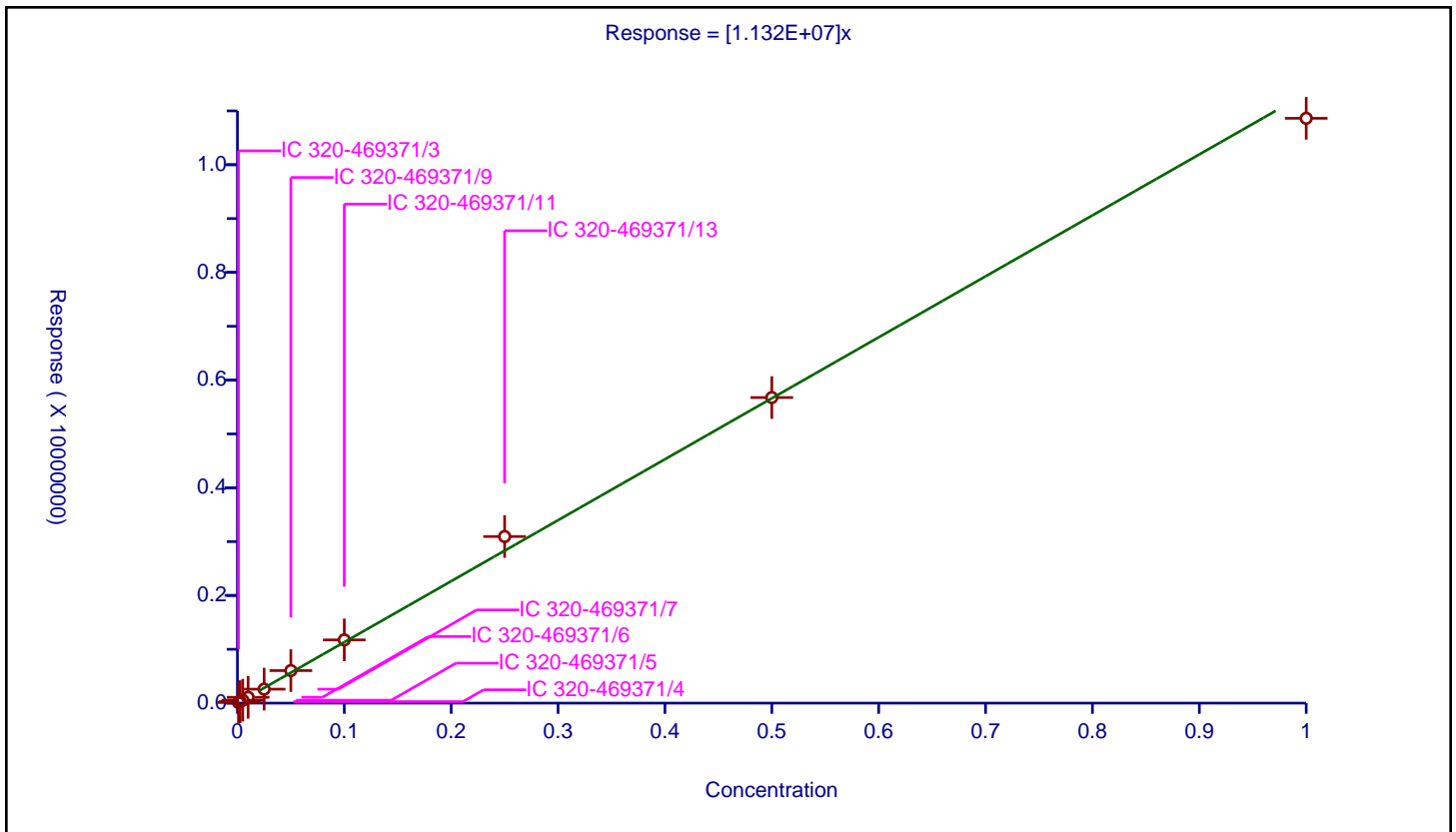
/ PFECA B

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.132E+07

Error Coefficients	
Standard Error:	178000
Relative Standard Error:	5.6
Correlation Coefficient:	0.999
Coefficient of Determination (Adjusted):	0.996

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	11628.0			11628000.0	Y
2	IC 320-469371/4	0.0025	28030.0			11212000.0	Y
3	IC 320-469371/5	0.005	54087.0			10817400.0	Y
4	IC 320-469371/6	0.01	107847.0			10784700.0	Y
5	IC 320-469371/7	0.025	259454.0			10378160.0	Y
6	IC 320-469371/9	0.05	604295.0			12085900.0	Y
7	IC 320-469371/11	0.1	1174361.0			11743610.0	Y
8	IC 320-469371/13	0.25	3094418.0			12377672.0	Y
9	IC 320-469371/15	0.5	5675655.0			11351310.0	Y
10	IC 320-469371/16	1.0	10862667.0			10862667.0	Y



Calibration

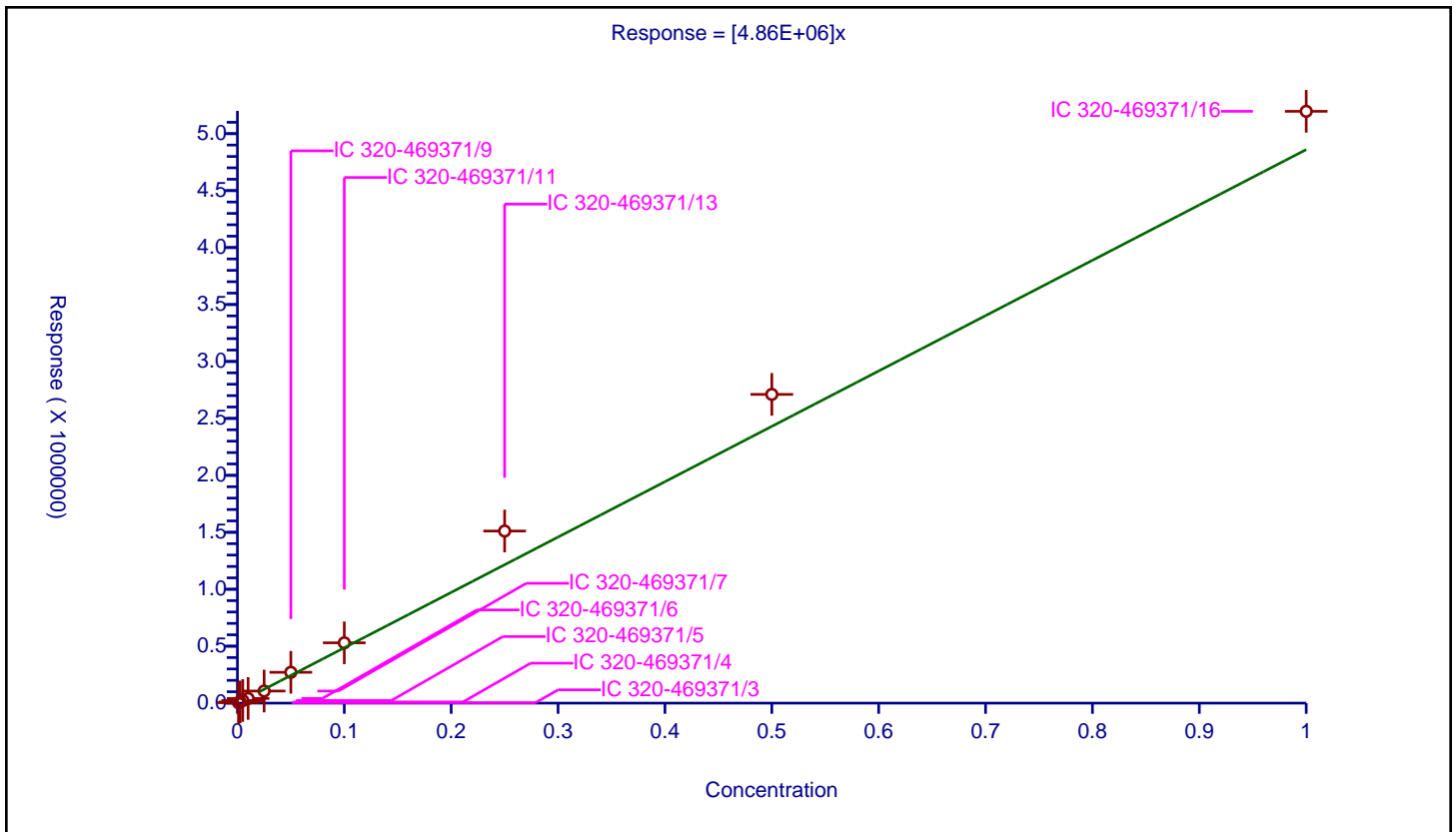
/ PFO3OA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	4.86E+06

Error Coefficients	
Standard Error:	177000
Relative Standard Error:	14.4
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.977

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	4113.0			4113000.0	Y
2	IC 320-469371/4	0.0025	10326.0			4130400.0	Y
3	IC 320-469371/5	0.005	23087.0			4617400.0	Y
4	IC 320-469371/6	0.01	41140.0			4114000.0	Y
5	IC 320-469371/7	0.025	106382.0			4255280.0	Y
6	IC 320-469371/9	0.05	270695.0			5413900.0	Y
7	IC 320-469371/11	0.1	529631.0			5296310.0	Y
8	IC 320-469371/13	0.25	1510951.0			6043804.0	Y
9	IC 320-469371/15	0.5	2710693.0			5421386.0	Y
10	IC 320-469371/16	1.0	5196365.0			5196365.0	Y



**Calibration**

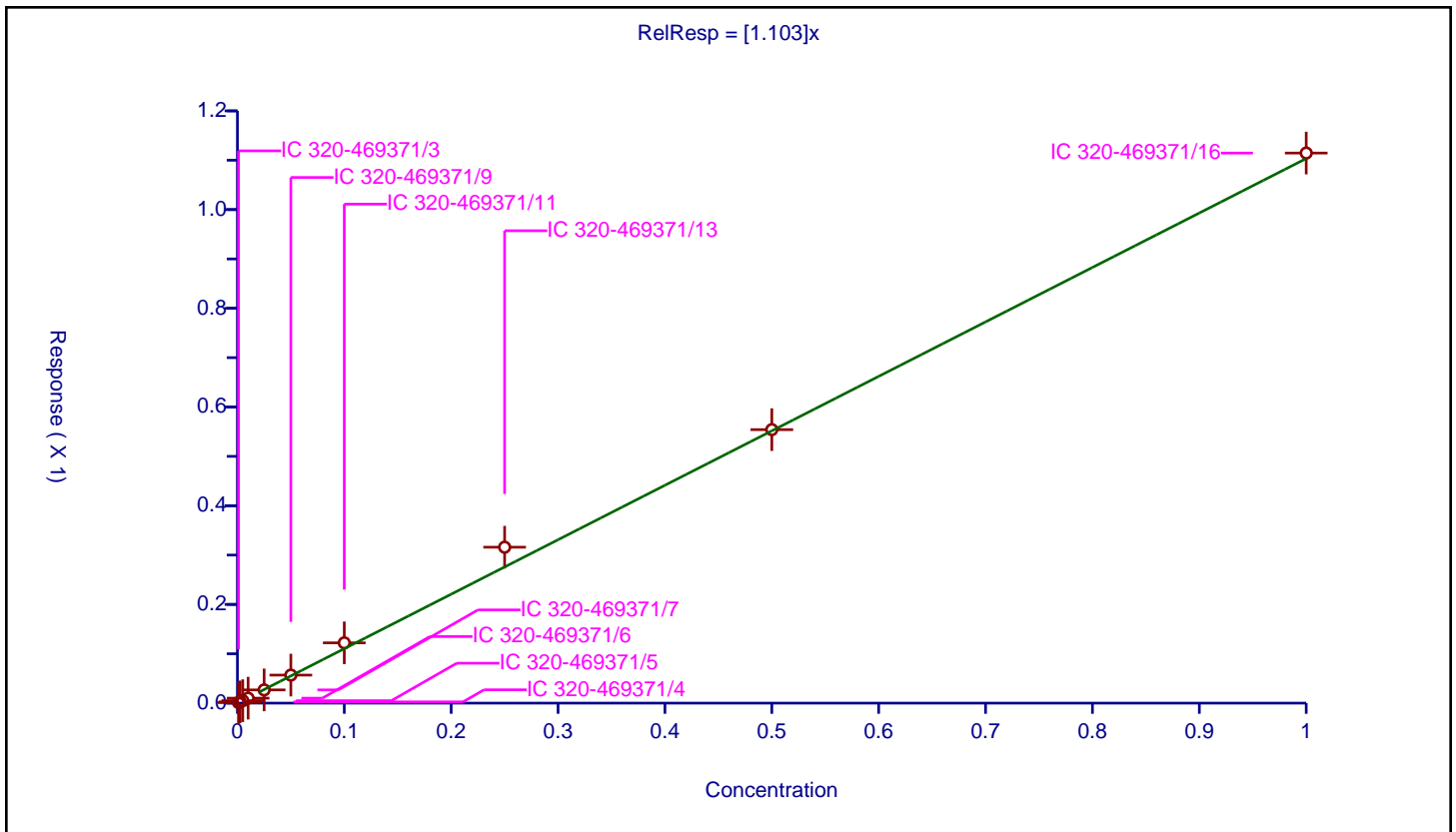
**/ Perfluoro(2-propoxypropanoic) acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** IsoDil  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
<b>Intercept:</b>	0
<b>Slope:</b>	1.103

Error Coefficients	
<b>Standard Error:</b>	3240000
<b>Relative Standard Error:</b>	8.2
<b>Correlation Coefficient:</b>	0.999
<b>Coefficient of Determination (Adjusted):</b>	0.992

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-469371/3	0.001	0.001115	0.25	2044917.0	1.115326	Y
2	IC 320-469371/4	0.0025	0.002517	0.25	2050684.0	1.006884	Y
3	IC 320-469371/5	0.005	0.004951	0.25	1950335.0	0.990138	Y
4	IC 320-469371/6	0.01	0.010058	0.25	1971732.0	1.005829	Y
5	IC 320-469371/7	0.025	0.026819	0.25	1893184.0	1.072769	Y
6	IC 320-469371/9	0.05	0.056788	0.25	1967730.0	1.13575	Y
7	IC 320-469371/11	0.1	0.122136	0.25	1880223.0	1.221363	Y
8	IC 320-469371/13	0.25	0.315938	0.25	1879948.0	1.26375	Y
9	IC 320-469371/15	0.5	0.554123	0.25	1956495.0	1.108246	Y
10	IC 320-469371/16	1.0	1.11456	0.25	1859492.0	1.11456	Y



Calibration

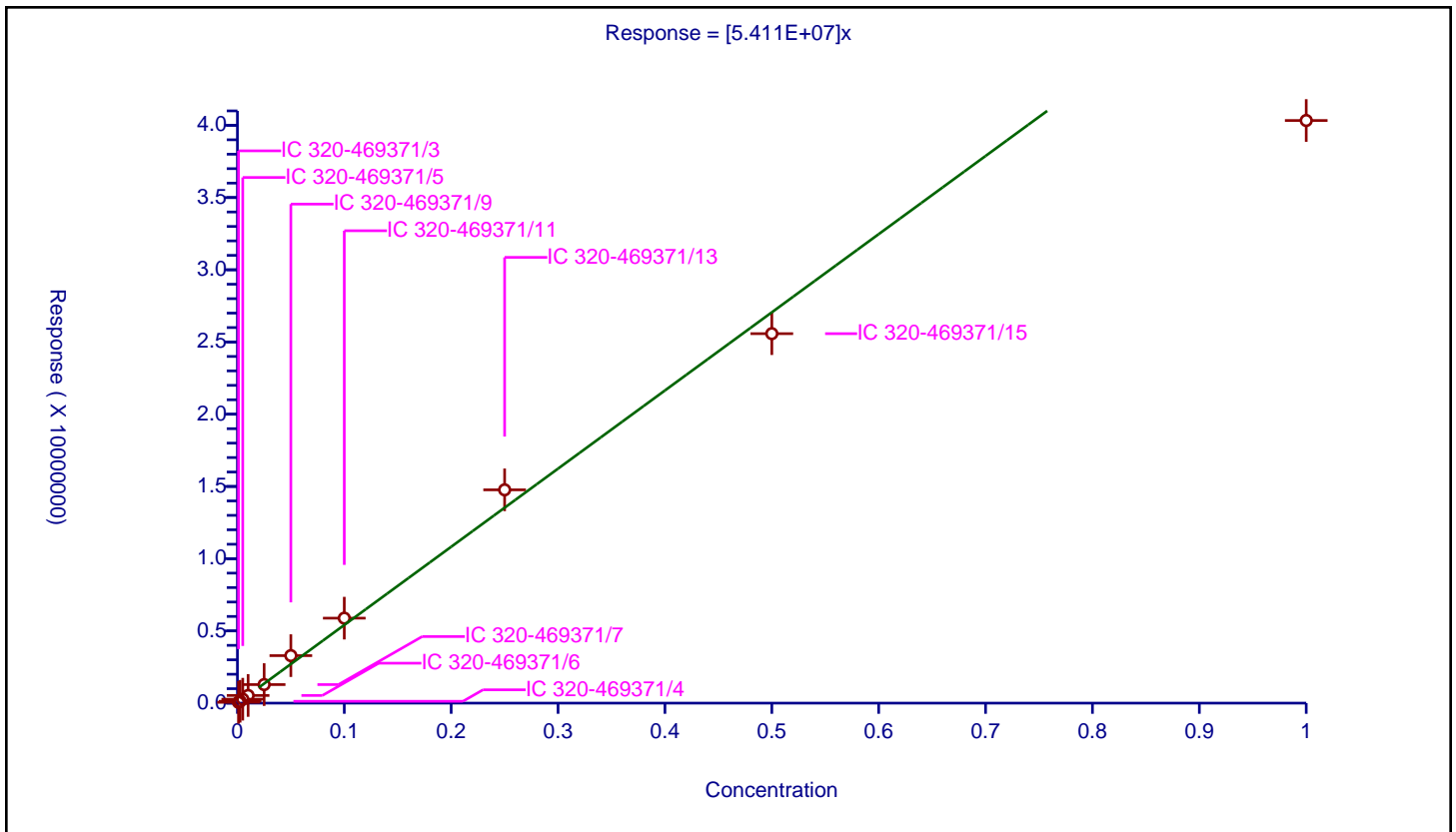
/ R-PSDCA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.411E+07

Error Coefficients	
Standard Error:	4640000
Relative Standard Error:	12.4
Correlation Coefficient:	0.979
Coefficient of Determination (Adjusted):	0.981

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	56403.0			56403000.0	Y
2	IC 320-469371/4	0.0025	127265.0			50906000.0	Y
3	IC 320-469371/5	0.005	271764.0			54352800.0	Y
4	IC 320-469371/6	0.01	529236.0			52923600.0	Y
5	IC 320-469371/7	0.025	1284817.0			51392680.0	Y
6	IC 320-469371/9	0.05	3288158.0			65763160.0	Y
7	IC 320-469371/11	0.1	5881852.0			58818520.0	Y
8	IC 320-469371/13	0.25	14766368.0			59065472.0	Y
9	IC 320-469371/15	0.5	25578508.0			51157016.0	Y
10	IC 320-469371/16	1.0	40333918.0			40333918.0	Y





**Calibration**

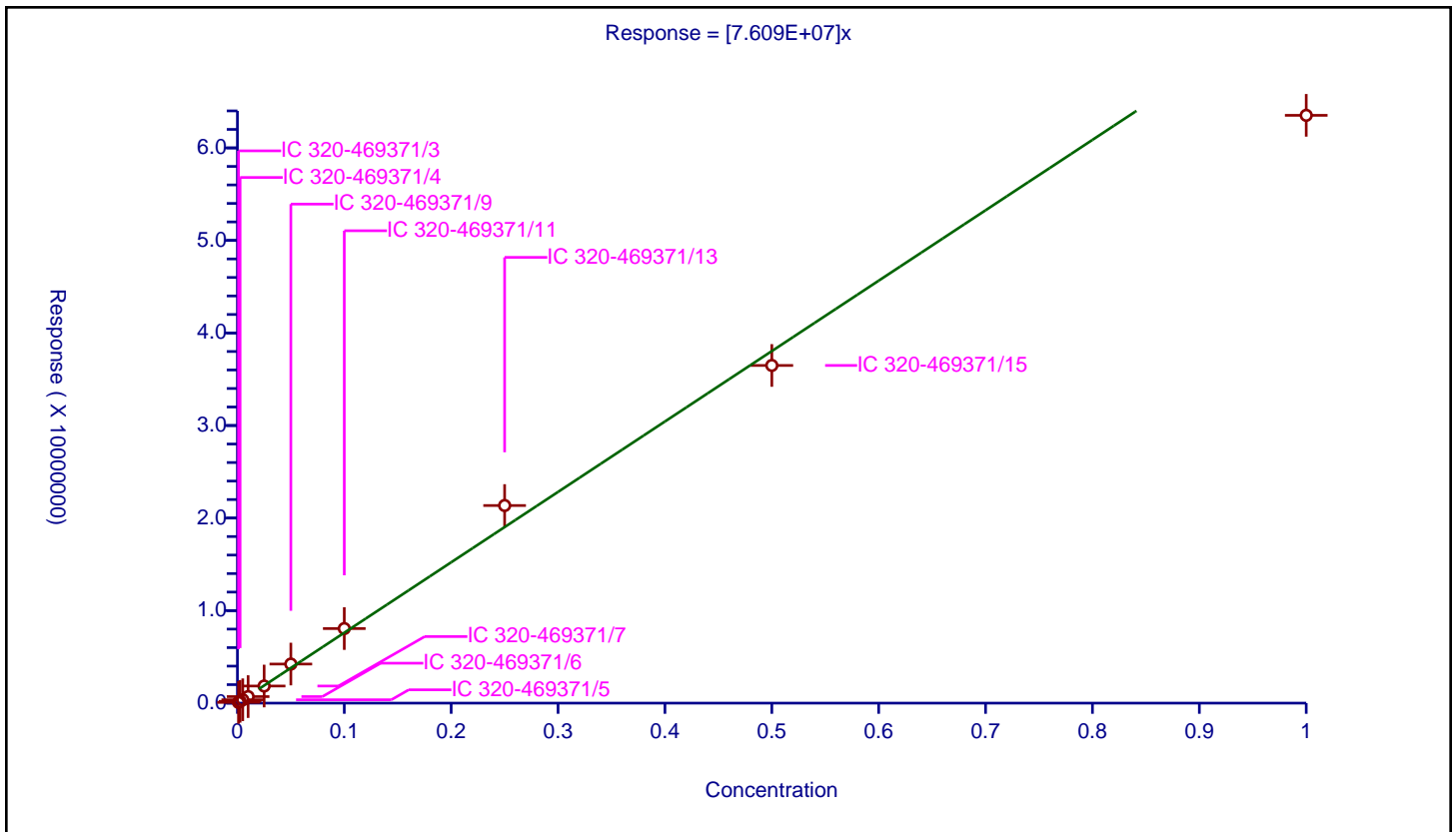
**/ Hydro-EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	7.609E+07

Error Coefficients	
Standard Error:	4300000
Relative Standard Error:	8.8
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	78607.0			78607000.0	Y
2	IC 320-469371/4	0.0025	194717.0			77886800.0	Y
3	IC 320-469371/5	0.005	363314.0			72662800.0	Y
4	IC 320-469371/6	0.01	707807.0			70780700.0	Y
5	IC 320-469371/7	0.025	1848564.0			73942560.0	Y
6	IC 320-469371/9	0.05	4223389.0			84467780.0	Y
7	IC 320-469371/11	0.1	8058472.0			80584720.0	Y
8	IC 320-469371/13	0.25	21354386.0			85417544.0	Y
9	IC 320-469371/15	0.5	36490724.0			72981448.0	Y
10	IC 320-469371/16	1.0	63520565.0			63520565.0	Y



**Calibration**

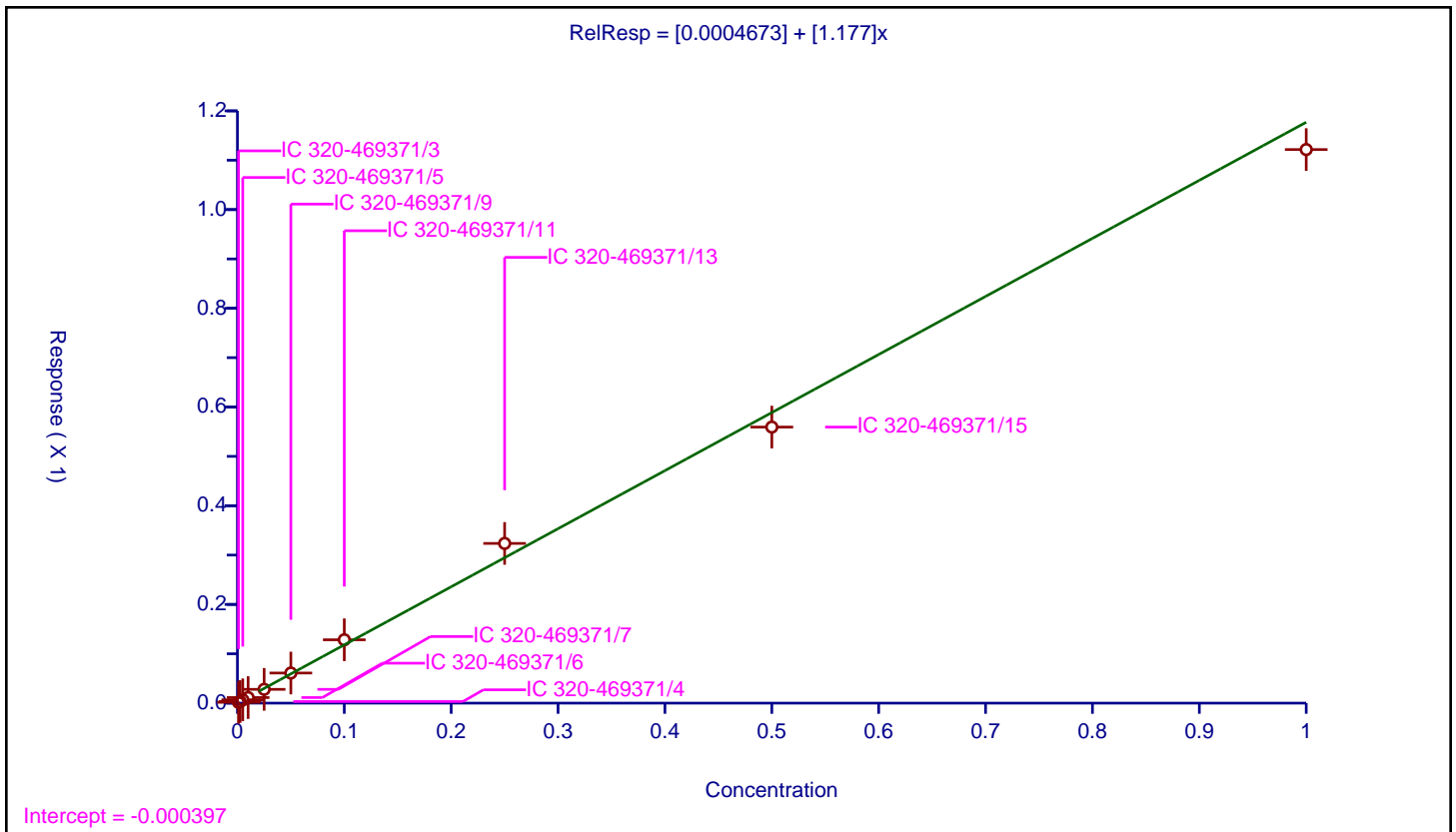
/ Perfluoroheptanoic acid

Curve Type: Linear  
 Weighting: Conc\_Sq  
 Origin: None  
 Dependency: Response  
 Calib Mode: IsoDil  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0.0004673
Slope:	1.177

Error Coefficients	
Standard Error:	8530000
Relative Standard Error:	7.0
Correlation Coefficient:	0.983
Coefficient of Determination (Adjusted):	0.995

ID	Level	Concentration	Rel. Resp.	IS Amount	IS Response	RRF	Used
1	IC 320-469371/3	0.001	0.001663	0.25	7395069.0	1.663034	Y
2	IC 320-469371/4	0.0025	0.003266	0.25	7007270.0	1.306572	Y
3	IC 320-469371/5	0.005	0.006699	0.25	6917544.0	1.339898	Y
4	IC 320-469371/6	0.01	0.011304	0.25	6054619.0	1.130434	Y
5	IC 320-469371/7	0.025	0.027937	0.25	6380058.0	1.117474	Y
6	IC 320-469371/9	0.05	0.061013	0.25	6691253.0	1.220266	Y
7	IC 320-469371/11	0.1	0.12833	0.25	5595951.0	1.283299	Y
8	IC 320-469371/13	0.25	0.323591	0.25	5515334.0	1.294362	Y
9	IC 320-469371/15	0.5	0.559346	0.25	5276640.0	1.118692	Y
10	IC 320-469371/16	1.0	1.121649	0.25	4346479.0	1.121649	Y



**Calibration**

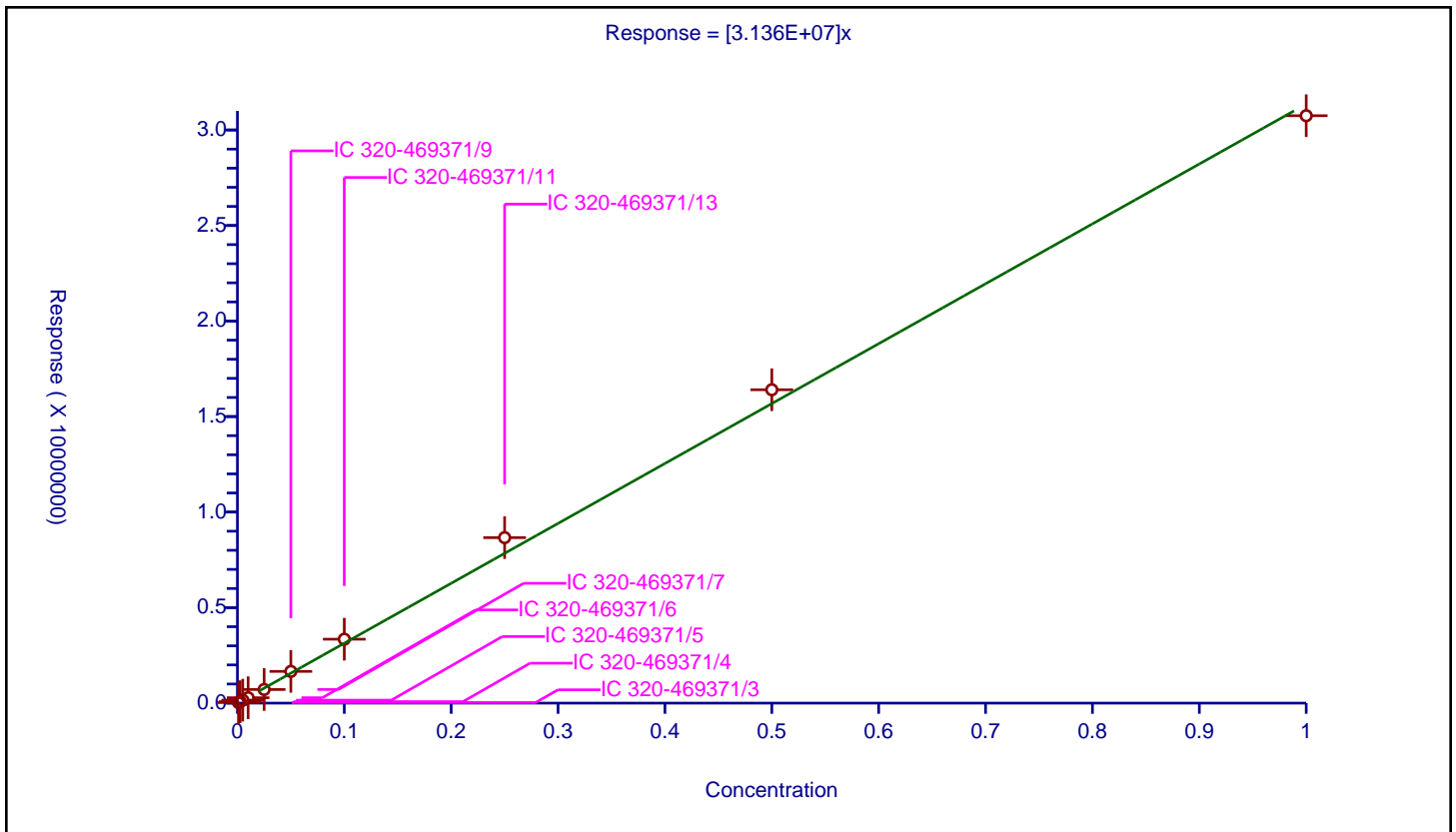
/ Hydro-PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	3.136E+07

Error Coefficients	
Standard Error:	426000
Relative Standard Error:	6.9
Correlation Coefficient:	0.998
Coefficient of Determination (Adjusted):	0.994

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	29651.0			29651000.0	Y
2	IC 320-469371/4	0.0025	77921.0			31168400.0	Y
3	IC 320-469371/5	0.005	155251.0			31050200.0	Y
4	IC 320-469371/6	0.01	282814.0			28281400.0	Y
5	IC 320-469371/7	0.025	713433.0			28537320.0	Y
6	IC 320-469371/9	0.05	1661116.0			33222320.0	Y
7	IC 320-469371/11	0.1	3346171.0			33461710.0	Y
8	IC 320-469371/13	0.25	8662362.0			34649448.0	Y
9	IC 320-469371/15	0.5	16403475.0			32806950.0	Y
10	IC 320-469371/16	1.0	30747606.0			30747606.0	Y



Calibration

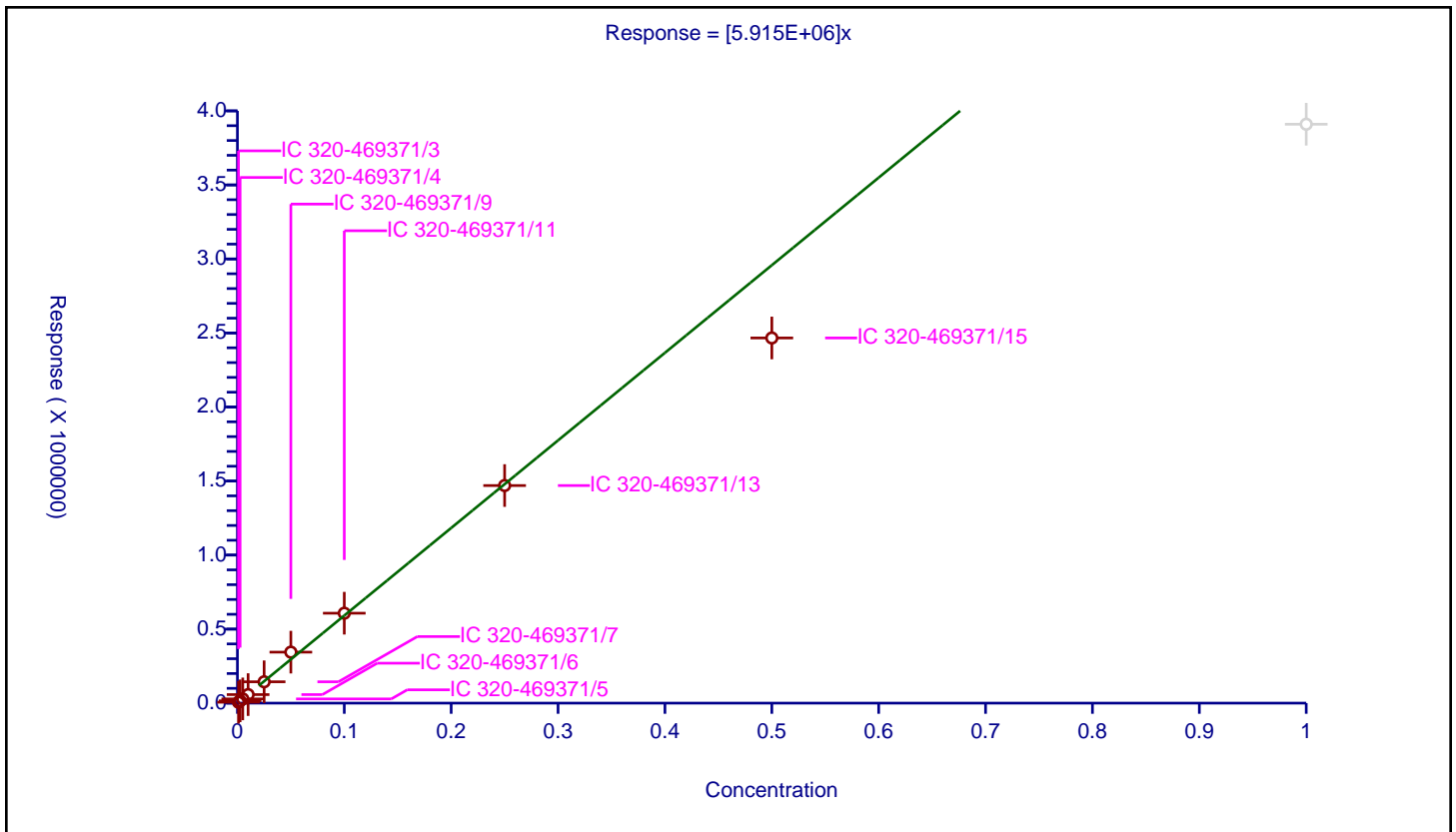
/ PFECA G

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.915E+06

Error Coefficients	
Standard Error:	175000
Relative Standard Error:	8.7
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	6090.0			6090000.0	Y
2	IC 320-469371/4	0.0025	15354.0			6141600.0	Y
3	IC 320-469371/5	0.005	28472.0			5694400.0	Y
4	IC 320-469371/6	0.01	57734.0			5773400.0	Y
5	IC 320-469371/7	0.025	144166.0			5766640.0	Y
6	IC 320-469371/9	0.05	344412.0			6888240.0	Y
7	IC 320-469371/11	0.1	607348.0			6073480.0	Y
8	IC 320-469371/13	0.25	1469571.0			5878284.0	Y
9	IC 320-469371/15	0.5	2466289.0			4932578.0	Y
10	IC 320-469371/16	1.0	3909864.0			3909864.0	N



Calibration

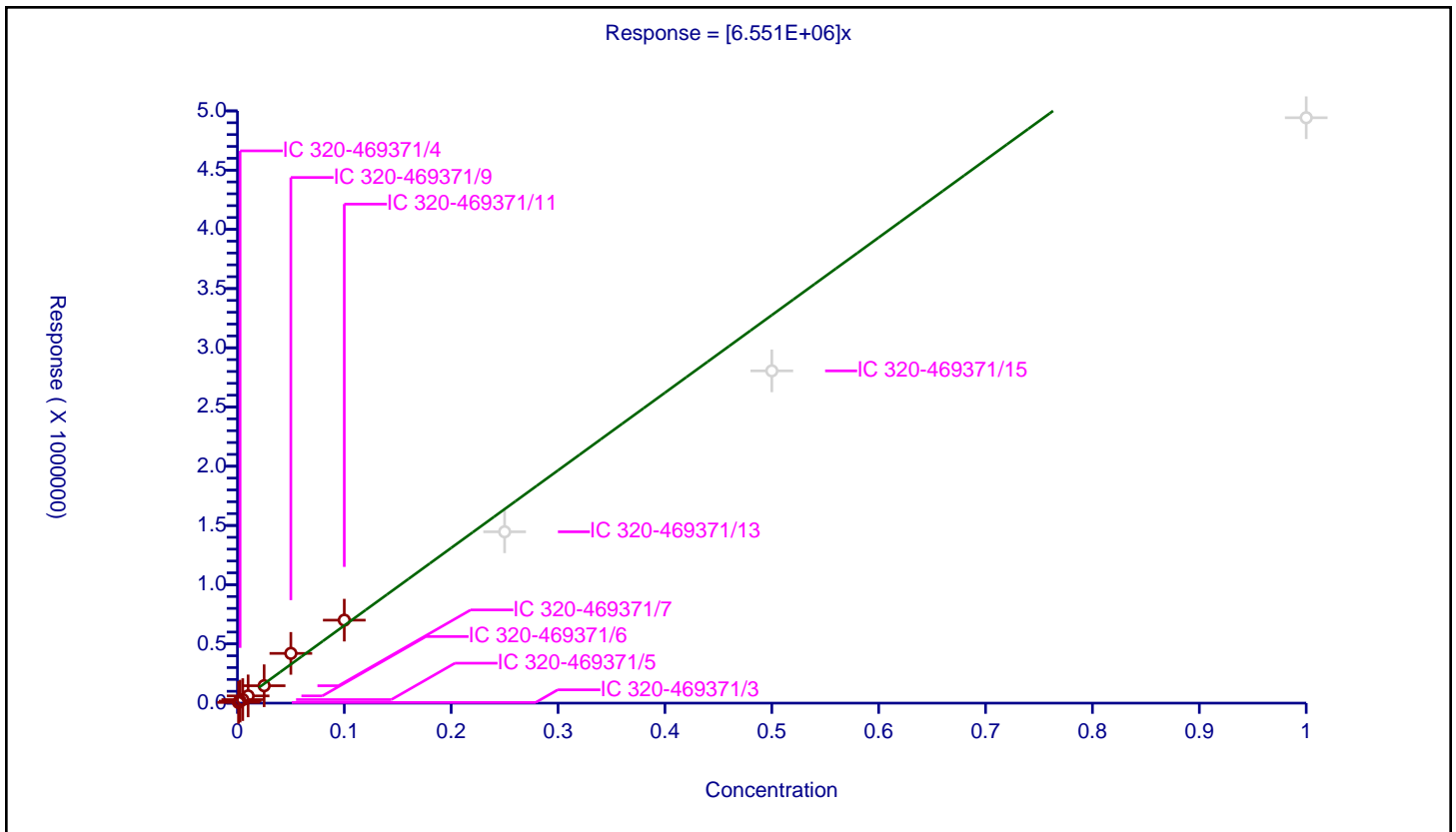
/ PFO4DA

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	6.551E+06

Error Coefficients	
Standard Error:	42700
Relative Standard Error:	14.3
Correlation Coefficient:	0.988
Coefficient of Determination (Adjusted):	0.975

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	5763.0			5763000.0	Y
2	IC 320-469371/4	0.0025	16897.0			6758800.0	Y
3	IC 320-469371/5	0.005	29800.0			5960000.0	Y
4	IC 320-469371/6	0.01	60985.0			6098500.0	Y
5	IC 320-469371/7	0.025	146869.0			5874760.0	Y
6	IC 320-469371/9	0.05	419942.0			8398840.0	Y
7	IC 320-469371/11	0.1	700600.0			7006000.0	Y
8	IC 320-469371/13	0.25	1446690.0			5786760.0	N
9	IC 320-469371/15	0.5	2805185.0			5610370.0	N
10	IC 320-469371/16	1.0	4942284.0			4942284.0	N



**Calibration**

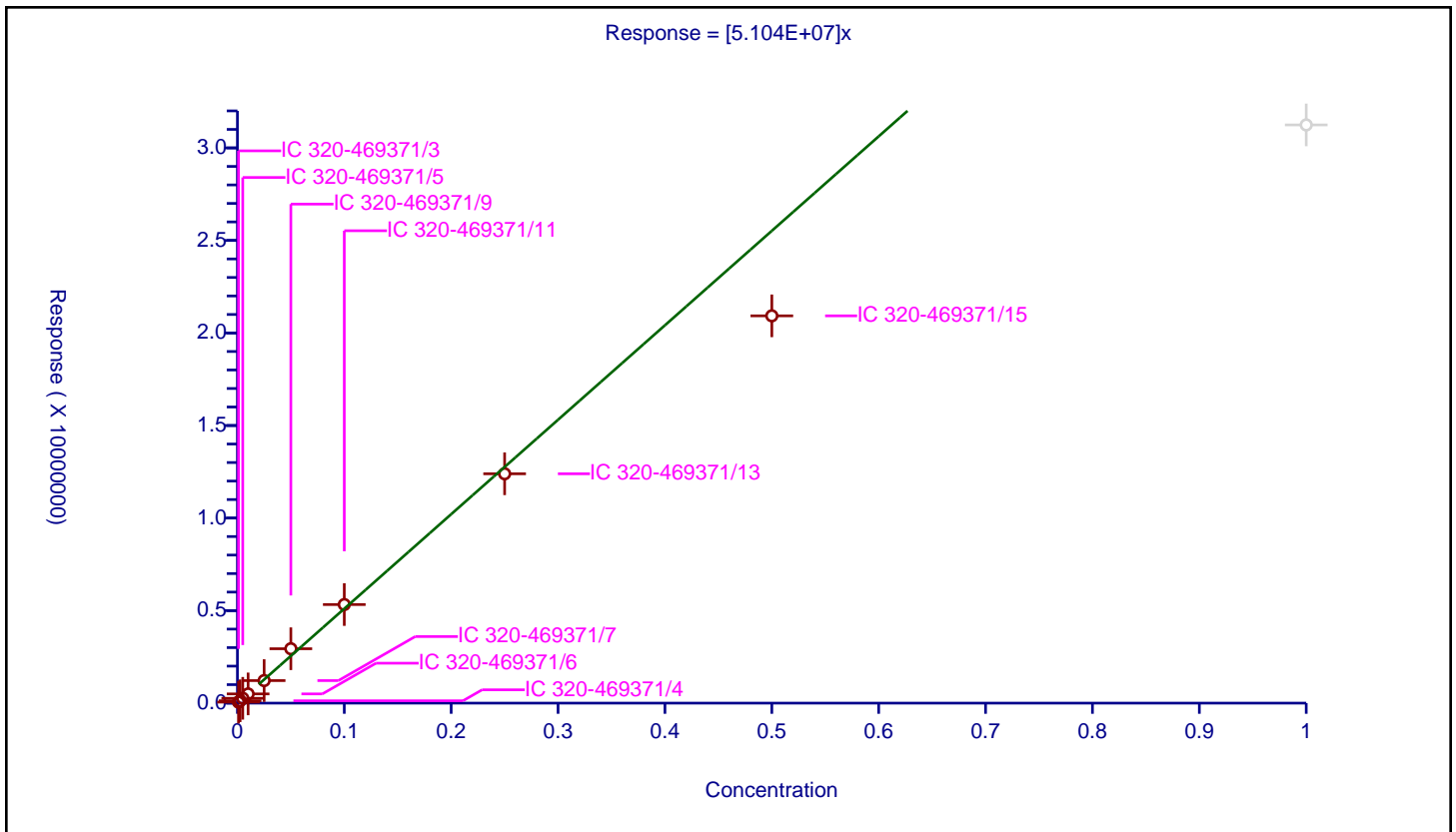
**/ EVE Acid**

**Curve Type:** Average  
**Weighting:** Conc\_Sq  
**Origin:** Force  
**Dependency:** Response  
**Calib Mode:** ESTD  
**Response Base:** AREA  
**RF Rounding:** 0

Curve Coefficients	
Intercept:	0
Slope:	5.104E+07

Error Coefficients	
Standard Error:	1640000
Relative Standard Error:	9.0
Correlation Coefficient:	0.991
Coefficient of Determination (Adjusted):	0.990

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	54073.0			54073000.0	Y
2	IC 320-469371/4	0.0025	127455.0			50982000.0	Y
3	IC 320-469371/5	0.005	261350.0			52270000.0	Y
4	IC 320-469371/6	0.01	498149.0			49814900.0	Y
5	IC 320-469371/7	0.025	1218402.0			48736080.0	Y
6	IC 320-469371/9	0.05	2938957.0			58779140.0	Y
7	IC 320-469371/11	0.1	5327376.0			53273760.0	Y
8	IC 320-469371/13	0.25	12391948.0			49567792.0	Y
9	IC 320-469371/15	0.5	20926403.0			41852806.0	Y
10	IC 320-469371/16	1.0	31241621.0			31241621.0	N



Calibration

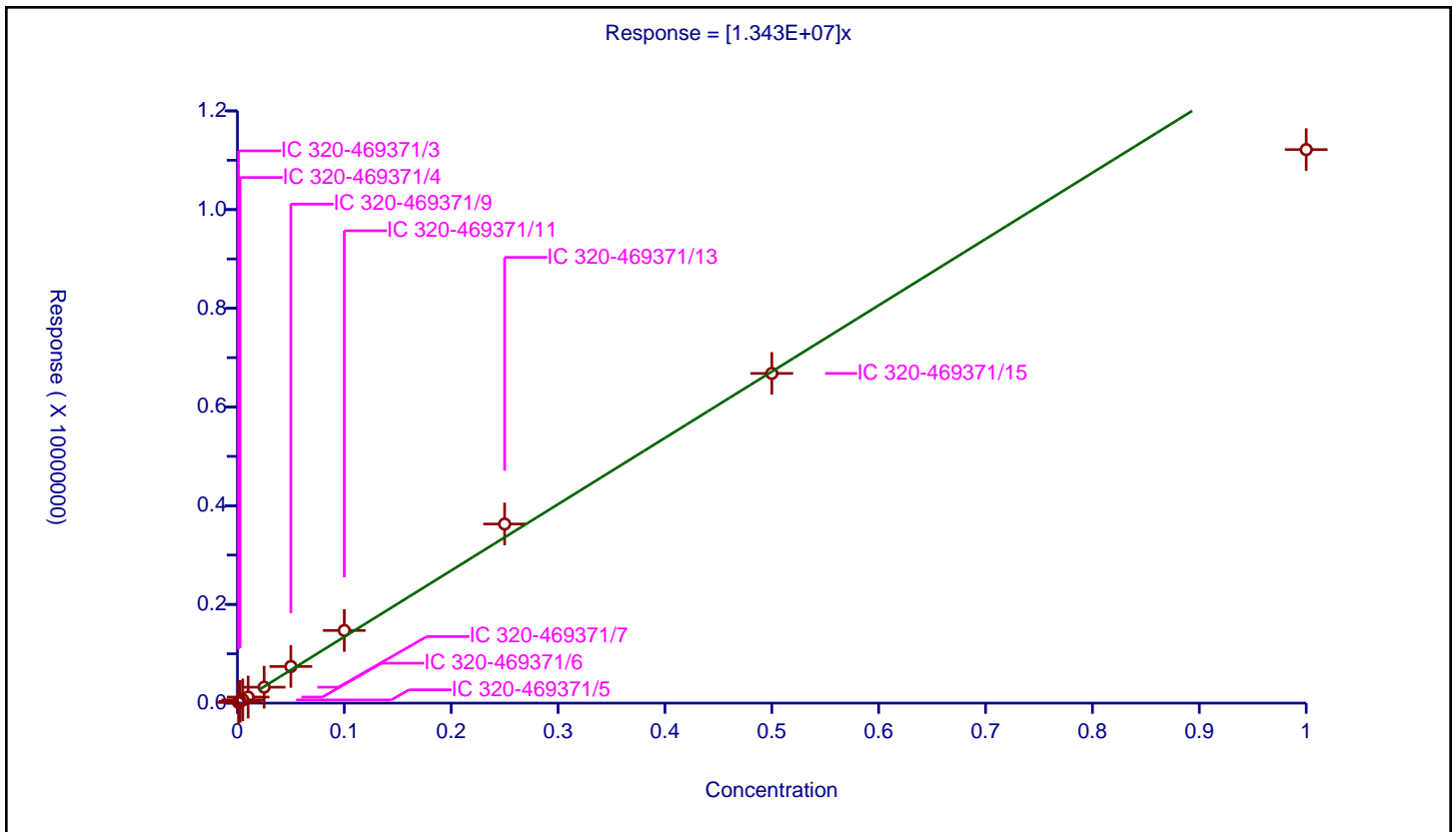
/ PS Acid

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	1.343E+07

Error Coefficients	
Standard Error:	746000
Relative Standard Error:	8.5
Correlation Coefficient:	0.990
Coefficient of Determination (Adjusted):	0.991

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	13693.0			13693000.0	Y
2	IC 320-469371/4	0.0025	34498.0			13799200.0	Y
3	IC 320-469371/5	0.005	64826.0			12965200.0	Y
4	IC 320-469371/6	0.01	123017.0			12301700.0	Y
5	IC 320-469371/7	0.025	322715.0			12908600.0	Y
6	IC 320-469371/9	0.05	742261.0			14845220.0	Y
7	IC 320-469371/11	0.1	1472654.0			14726540.0	Y
8	IC 320-469371/13	0.25	3629386.0			14517544.0	Y
9	IC 320-469371/15	0.5	6680628.0			13361256.0	Y
10	IC 320-469371/16	1.0	11215856.0			11215856.0	Y



**Calibration**

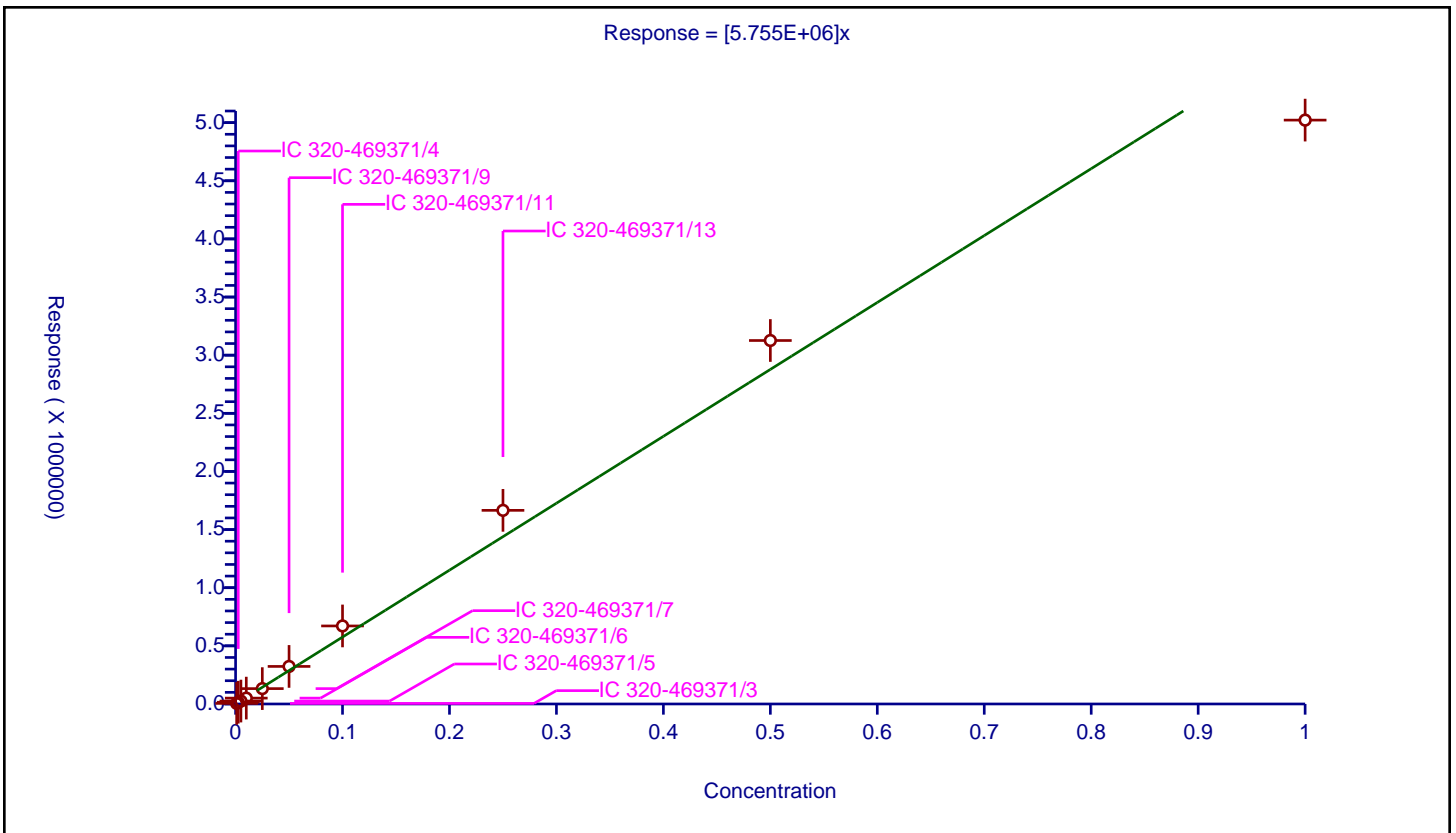
/ TAF

Curve Type: Average  
 Weighting: Conc\_Sq  
 Origin: Force  
 Dependency: Response  
 Calib Mode: ESTD  
 Response Base: AREA  
 RF Rounding: 0

Curve Coefficients	
Intercept:	0
Slope:	5.755E+06

Error Coefficients	
Standard Error:	271000
Relative Standard Error:	12.7
Correlation Coefficient:	0.985
Coefficient of Determination (Adjusted):	0.982

ID	Level	Concentration	Response	IS Amount	IS Response	RF	Used
1	IC 320-469371/3	0.001	5041.0			5041000.0	Y
2	IC 320-469371/4	0.0025	15061.0			6024400.0	Y
3	IC 320-469371/5	0.005	25157.0			5031400.0	Y
4	IC 320-469371/6	0.01	50589.0			5058900.0	Y
5	IC 320-469371/7	0.025	132222.0			5288880.0	Y
6	IC 320-469371/9	0.05	323035.0			6460700.0	Y
7	IC 320-469371/11	0.1	671219.0			6712190.0	Y
8	IC 320-469371/13	0.25	1665364.0			6661456.0	Y
9	IC 320-469371/15	0.5	3126092.0			6252184.0	Y
10	IC 320-469371/16	1.0	5021736.0			5021736.0	Y





FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-468521/17 Calibration Date: 03/08/2021 19:10  
 Instrument ID: A12 Calib Start Date: 03/08/2021 14:45  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/08/2021 18:35  
 Lab File ID: 2021.03.08\_A12\_TB3\_ICAL\_018.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	11226068	11034110		98.3	100	-1.7	30.0
R-EVE	Ave	5914403	5576570		94.3	100	-5.7	50.0
R-PSDA	Ave	2679890	2335720		87.2	100	-12.8	50.0
Hydrolyzed PSDA	Ave	10098398	7936710		78.6	100	-21.4	50.0
PMPA	Ave	17201367	17032680		99.0	100	-1.0	30.0
NVHOS	Ave	5299469	4949150		93.4	100	-6.6	30.0
PFO2HxA	Ave	12587489	12114640		96.2	100	-3.8	30.0
PEPA	Ave	5148742	4552480		88.4	100	-11.6	30.0
PES	Ave	17753738	16299080		91.8	100	-8.2	30.0
PFECA B	Ave	8599515	8785350		102	100	2.2	30.0
PFO3OA	Ave	3391331	3703770		109	100	9.2	30.0
HFPO-DA	AveID	1.031	0.9645		93.6	100	-6.4	40.0
R-PSDCA	Ave	50599756	44215190		87.4	100	-12.6	30.0
Hydro-EVE Acid	Ave	65218805	64304410		98.6	100	-1.4	30.0
Perfluoroheptanoic acid	AveID	1.097	1.002		91.2	100	-8.7	40.0
Hydro-PS Acid	Ave	23585845	22315280		94.6	100	-5.4	30.0
PFECA G	Ave	4517205	3366360		74.5	100	-25.5	30.0
PFO4DA	Ave	5194562	4297310		82.7	100	-17.3	30.0
EVE Acid	Ave	38431313	38966610		101	100	1.4	30.0
PS Acid	Ave	10385008	9231780		88.9	100	-11.1	30.0
PFO5DA	Ave	4384632	5252410		120	100	19.8	50.0
13C3 HFPO-DA	Ave	6324778	6117748		242	250	-3.3	50.0
13C4 PFHpA	Ave	27130897	25224816		232	250	-7.0	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_018.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 08-Mar-2021 19:10:44 ALS Bottle#: 18 Worklist Smp#: 17  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (49)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 09-Mar-2021 07:11:06 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1636

First Level Reviewer: fariasa Date: 09-Mar-2021 06:38:34

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.240	4.337	-0.097		1103411	0.0983		163		M
2 R-EVE										
405.00 > 217.00	6.426	6.591	-0.165		557657	0.0943		9378		
3 R-PSDA										
440.90 > 241.00	6.486	6.639	-0.153		233572	0.0872		3281		
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.710	-0.164		793671	0.0786		12684		
23 PMPA										
229.00 > 185.00	6.732	6.876	-0.144		1703268	0.0990		1655		
5 NVHOS										
297.00 > 135.00	7.111	7.260	-0.149		494915	0.0934		10858		
6 PFO2HxA										
245.00 > 85.00	7.706	7.862	-0.156		1211464	0.0962		13463		
22 PEPA										
278.90 > 234.90	8.295	8.431	-0.136		455248	0.0884		2016		
7 PES										
314.90 > 135.00	8.555	8.715	-0.160		1629908	0.0918		39808		
8 PFECA B										
295.00 > 201.00	8.797	8.925	-0.128		878535	0.1022		16876		
9 PFO3OA										
310.90 > 85.00	9.045	9.190	-0.145		370377	0.1092		7293		
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.130	9.274	-0.144		1529437	0.2418		96.7	30792	M
11 HPFO-DA										
285.00 > 169.00	9.158	9.302	-0.144	1.003	590065	0.0936		15704		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.644	-0.122		4421519	0.0874			54892	
13 Hydro-EVE Acid										
427.00 > 282.90	9.555	9.701	-0.146		6430441	0.0986			33521	
D 14 13C4 PFHpA										M
367.00 > 322.00	9.555	9.701	-0.146		6306204	0.2324		93.0	95264	M
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.701	-0.146	1.000	2526489	0.0912	Target=0.00		10609	
363.00 > 169.00	9.555	9.701	-0.146	1.000	731099		3.46(0.00-0.00)		13896	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.730	-0.143		2231528	0.0946			36244	
17 PFECA G										
378.90 > 184.90	9.673	9.816	-0.143		336636	0.0745			8973	
18 PFO4DA										
376.90 > 85.00	9.846	9.988	-0.142		429731	0.0827			8601	
20 EVE Acid										
407.00 > 262.90	9.903	10.046	-0.143		3896661	0.1014			52239	
19 PS Acid										
443.00 > 146.90	9.903	10.046	-0.143		923178	0.0889			18859	
21 TAF										
442.90 > 85.00	10.425	10.565	-0.140		525241	0.1198			2549	

**QC Flag Legend**

Processing Flags

Review Flags

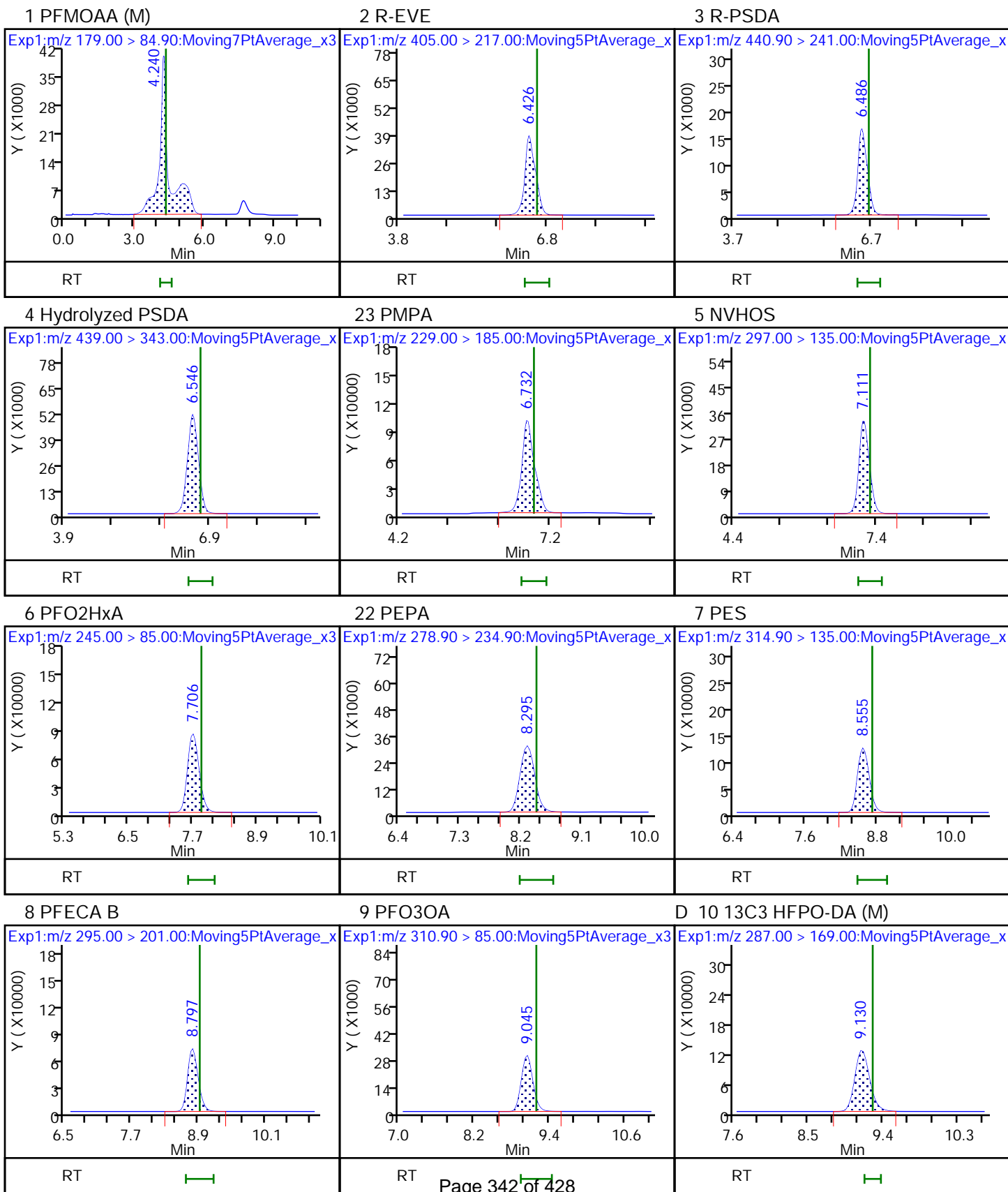
M - Manually Integrated

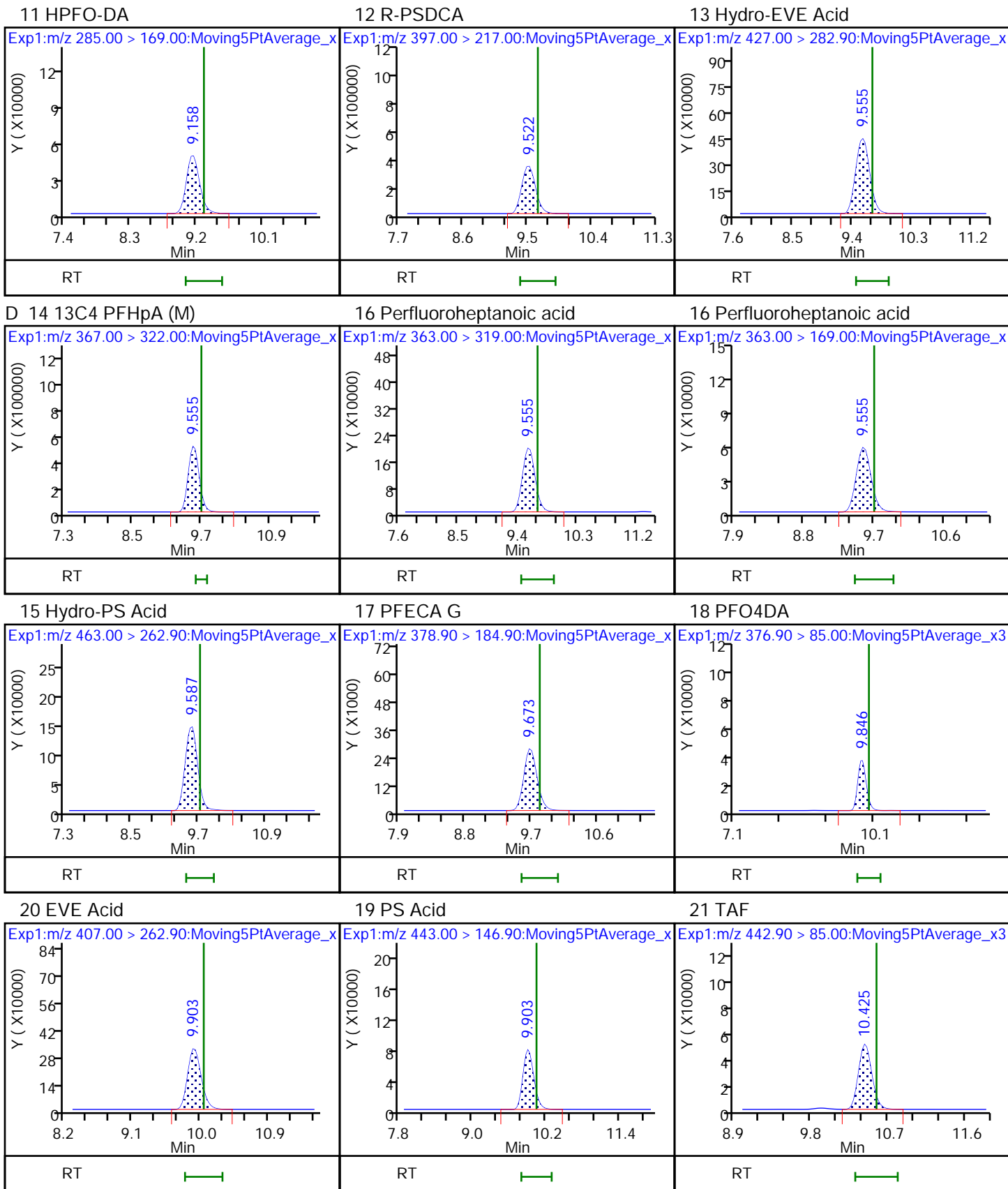
**Reagents:**

LCTB3\_LLICV\_00049

Amount Added: 1.00

Units: mL







Eurofins TestAmerica, Sacramento

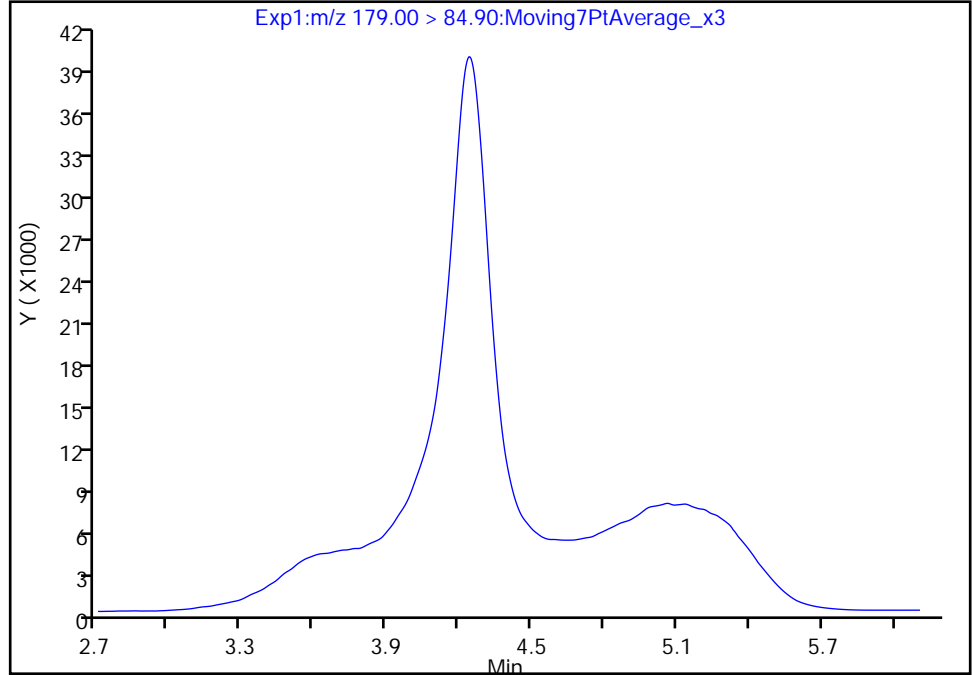
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Injection Date: 08-Mar-2021 19:10:44 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 17  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

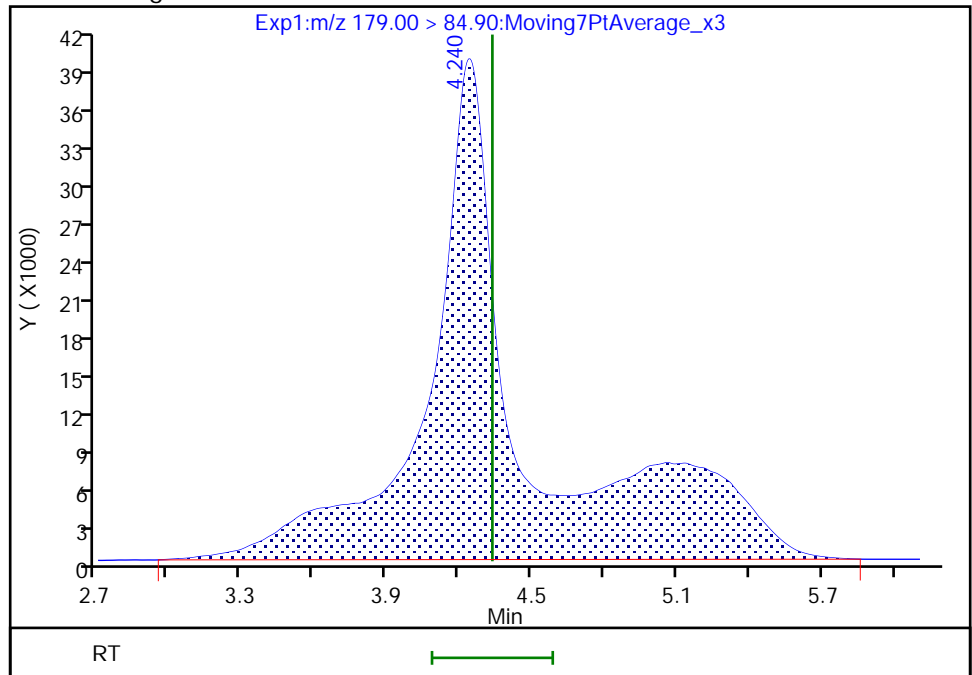
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.24  
Area: 1103411  
Amount: 0.098290  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:38:24  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 345 of 428

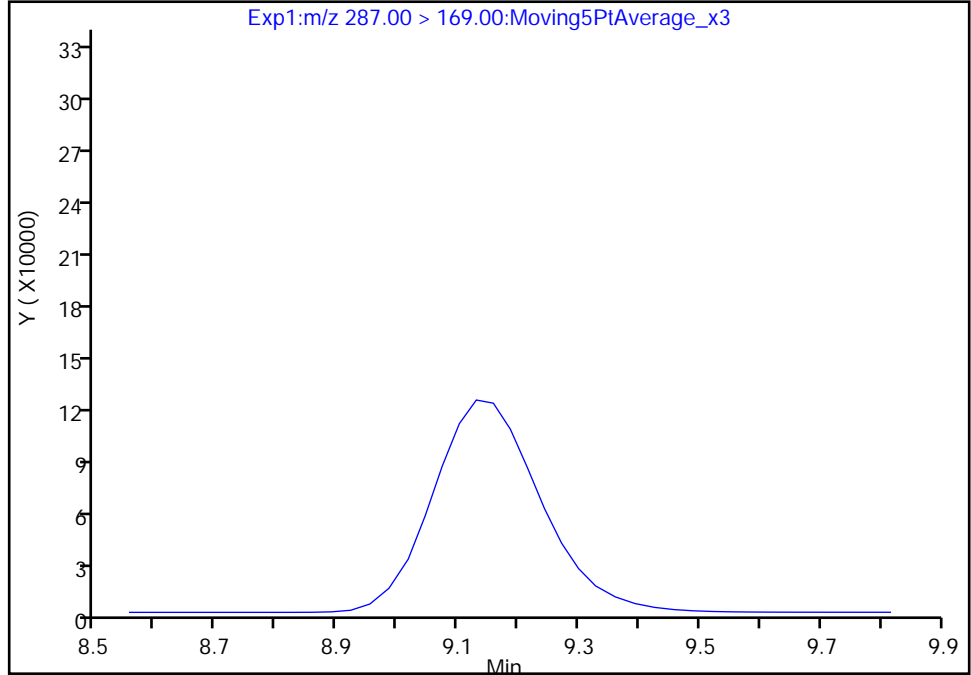
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_018.d  
Injection Date: 08-Mar-2021 19:10:44 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 17  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

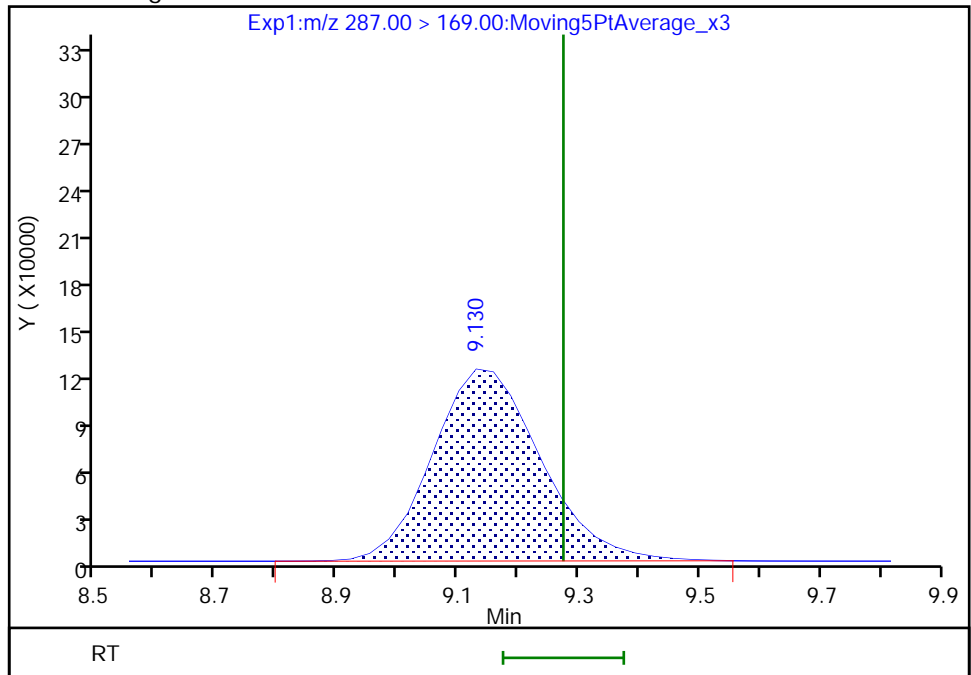
Not Detected  
Expected RT: 9.27

Processing Integration Results



RT: 9.13  
Area: 1529437  
Amount: 0.241817  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Sacramento

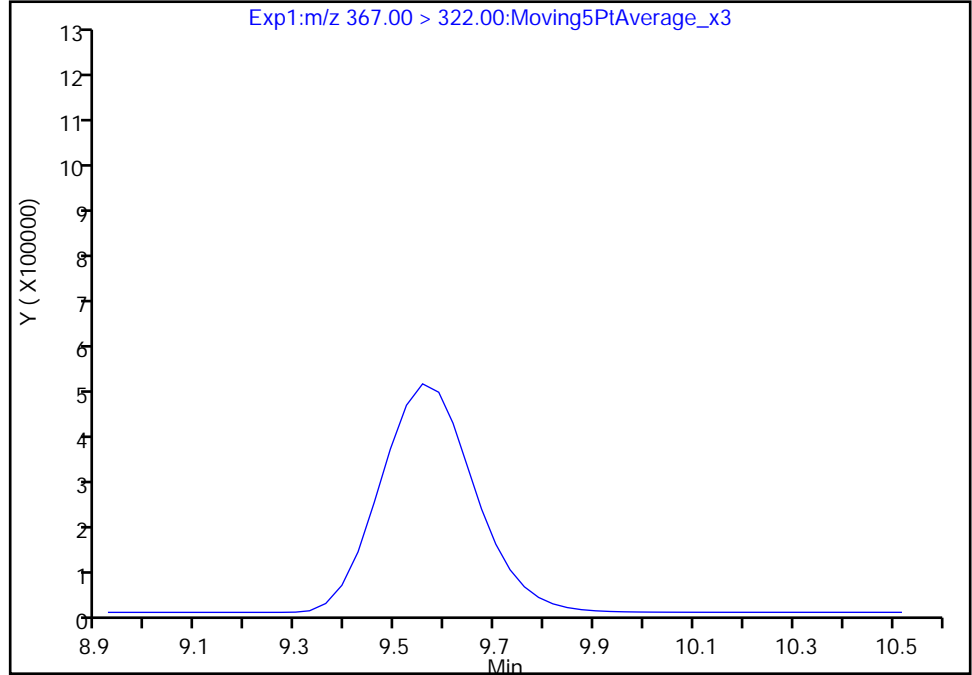
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Injection Date: 08-Mar-2021 19:10:44 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 18 Worklist Smp#: 17  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892

Signal: 1

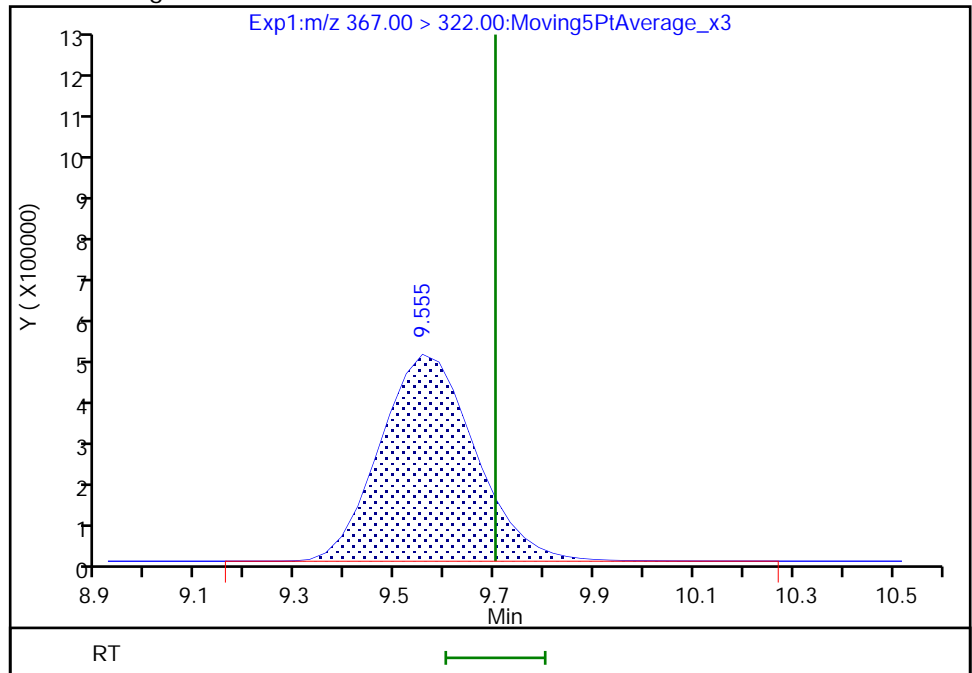
Not Detected  
Expected RT: 9.70

Processing Integration Results



Manual Integration Results

RT: 9.55  
Area: 6306204  
Amount: 0.232436  
Amount Units: ng/ml



Reviewer: fariasa, 09-Mar-2021 06:38:21  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-468770/1 Calibration Date: 03/09/2021 23:37  
 Instrument ID: A12 Calib Start Date: 03/08/2021 14:45  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/08/2021 18:35  
 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_029.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	11226068	10879800		72.7	75.0	-3.1	30.0
R-EVE	Ave	5914403	6327840		80.2	75.0	7.0	50.0
R-PSDA	Ave	2679890	2679547		75.0	75.0	-0.0	50.0
Hydrolyzed PSDA	Ave	10098398	10034320		74.5	75.0	-0.6	50.0
PMPA	Ave	17201367	17252027		75.2	75.0	0.3	30.0
NVHOS	Ave	5299469	5653987		80.0	75.0	6.7	30.0
PFO2HxA	Ave	12587489	13197893		78.6	75.0	4.8	30.0
PEPA	Ave	5148742	4998840		72.8	75.0	-2.9	30.0
PES	Ave	17753738	16876680		71.3	75.0	-4.9	30.0
PFECA B	Ave	8599515	9422027		82.2	75.0	9.6	30.0
PFO3OA	Ave	3391331	3558867		78.7	75.0	4.9	30.0
HFPO-DA	AveID	1.031	1.038		75.5	75.0	0.7	40.0
R-PSDCA	Ave	50599756	50207453		74.4	75.0	-0.8	30.0
Hydro-EVE Acid	Ave	65218805	71025547		81.7	75.0	8.9	30.0
Hydro-PS Acid	Ave	23585845	23298773		74.1	75.0	-1.2	30.0
Perfluoroheptanoic acid	AveID	1.097	1.091		74.5	75.0	-0.5	40.0
PFECA G	Ave	4517205	5080547		84.4	75.0	12.5	30.0
PFO4DA	Ave	5194562	6214093		89.7	75.0	19.6	30.0
EVE Acid	Ave	38431313	44522467		86.9	75.0	15.8	30.0
PS Acid	Ave	10385008	11359240		82.0	75.0	9.4	30.0
PFO5DA	Ave	4384632	4378080		74.9	75.0	-0.1	50.0
13C3 HFPO-DA	Ave	6324778	6230520		246	250	-1.5	50.0
13C4 PFHpA	Ave	27130897	26132712		241	250	-3.7	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_029.d  
 Lims ID: CCV L6.5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 09-Mar-2021 23:37:29 ALS Bottle#: 29 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L6.5 (29)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:33:25 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 12:33:25

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.031	4.031	0.0		815985	0.0727		96.9	46.2	M
2 R-EVE										
405.00 > 217.00	6.388	6.388	0.0		474588	0.0802		107	7387	
3 R-PSDA										
440.90 > 241.00	6.448	6.448	0.0		200966	0.0750		100.0	4297	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.508	6.508	0.0		752574	0.0745		99.4	10702	
23 PMPA										
229.00 > 185.00	6.686	6.686	0.0		1293902	0.0752		100	1024	
5 NVHOS										
297.00 > 135.00	7.088	7.088	0.0		424049	0.0800		107	7390	
6 PFO2HxA										
245.00 > 85.00	7.677	7.677	0.0		989842	0.0786		105	8280	
22 PEPA										
278.90 > 234.90	8.296	8.296	0.0		374913	0.0728		97.1	1460	
7 PES										
314.90 > 135.00	8.556	8.556	0.0		1265751	0.0713		95.1	29803	
8 PFECA B										
295.00 > 201.00	8.771	8.771	0.0		706652	0.0822		110	12995	
9 PFO3OA										
310.90 > 85.00	9.020	9.020	0.0		266915	0.0787		105	5081	
D 10 13C3 HFPO-DA										a
287.00 > 169.00	9.133	9.133	0.0		1557630	0.2463		98.5	31073	a
11 HPFO-DA										
285.00 > 169.00	9.133	9.133	0.0	1.000	484899	0.0755		101	12853	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.493	9.493	0.0		3765559	0.0744		99.2	46544	
13 Hydro-EVE Acid										
427.00 > 282.90	9.558	9.558	0.0		5326916	0.0817		109	27559	
D 14 13C4 PFHpA										a
367.00 > 322.00	9.558	9.558	0.0		6533178	0.2408		96.3	70122	a
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.558	9.558	0.0	1.000	2139224	0.0745	Target=0.00	99.4	11517	
363.00 > 169.00	9.558	9.558	0.0	1.000	604899		3.54(0.00-0.00)		11371	
15 Hydro-PS Acid										
463.00 > 262.90	9.558	9.558	0.0		1747408	0.0741		98.8	28256	
17 PFECA G										
378.90 > 184.90	9.676	9.676	0.0		381041	0.0844		112	10164	
18 PFO4DA										
376.90 > 85.00	9.820	9.820	0.0		466057	0.0897		120	9427	
20 EVE Acid										
407.00 > 262.90	9.906	9.906	0.0		3339185	0.0869		116	44904	
19 PS Acid										
443.00 > 146.90	9.906	9.906	0.0		851943	0.0820		109	17278	
21 TAF										
442.90 > 85.00	10.425	10.425	0.0		328356	0.0749		99.9	1570	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

**Reagents:**

LCTB3\_LLCCV\_00028

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_029.d

Injection Date: 09-Mar-2021 23:37:29

Instrument ID: A12

Lims ID: CCV L6.5

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 29

Worklist Smp#: 1

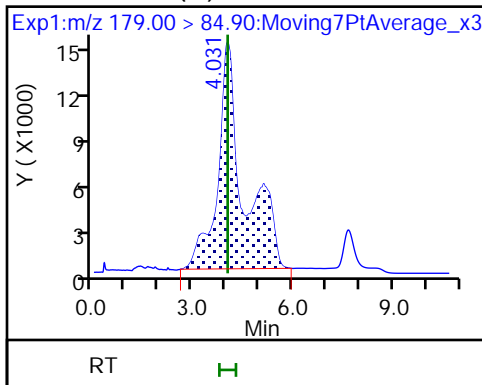
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

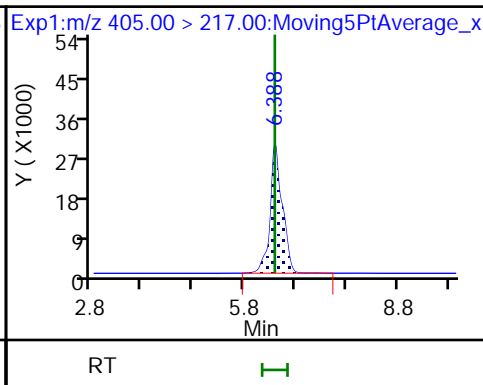
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

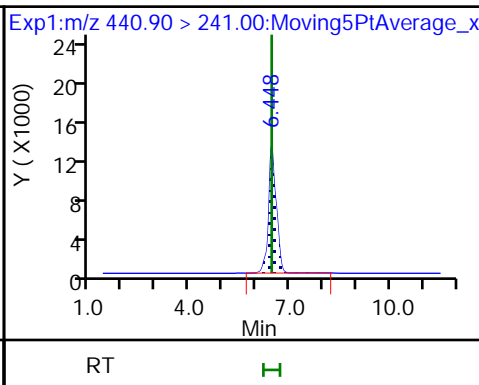
1 PFMOAA (M)



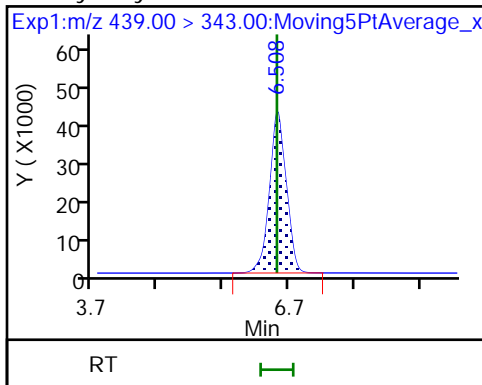
2 R-EVE



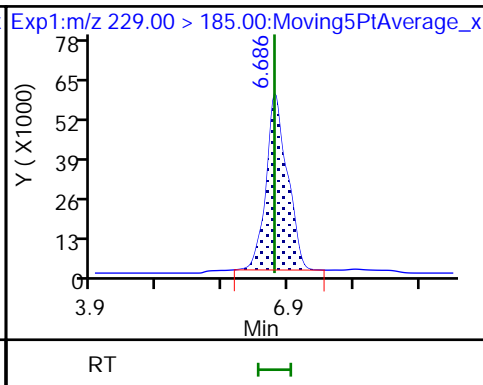
3 R-PSDA



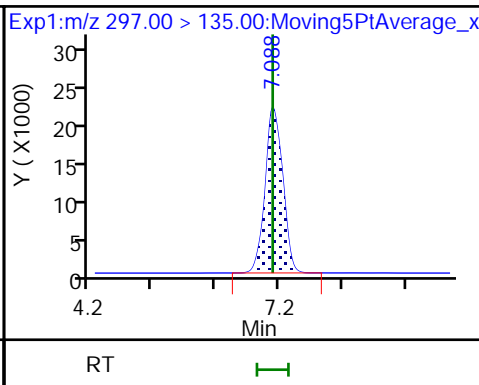
4 Hydrolyzed PSDA



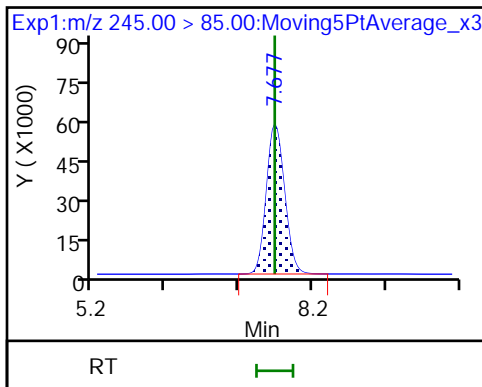
23 PMPA



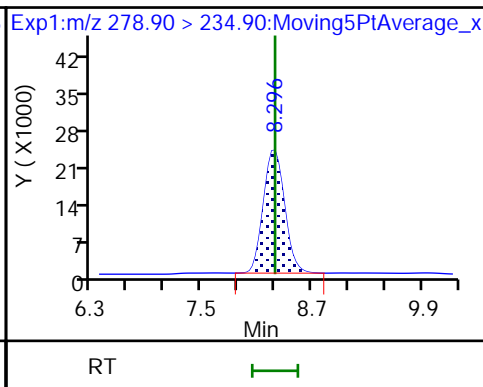
5 NVHOS



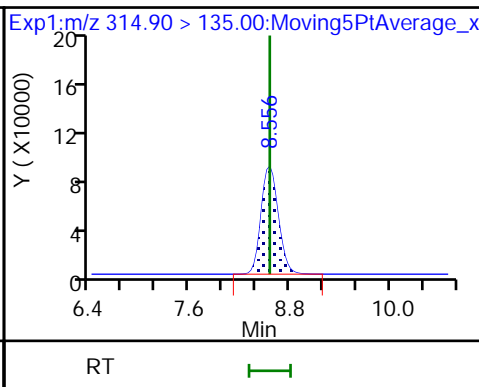
6 PFO2HxA



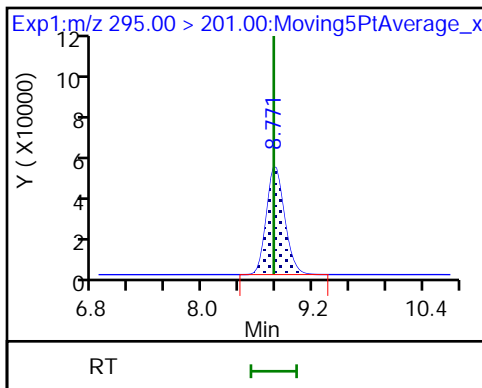
22 PEPA



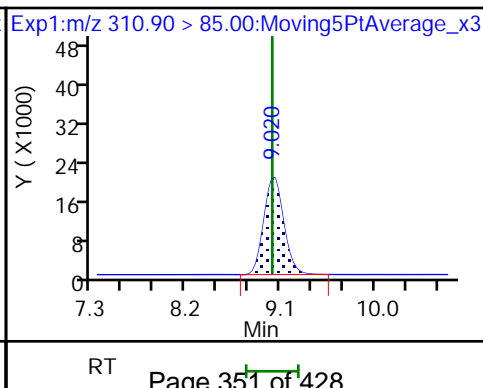
7 PES



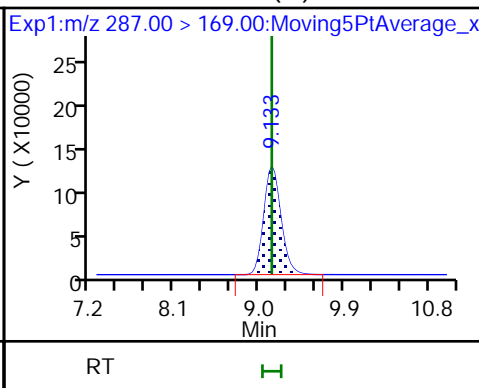
8 PFECA B

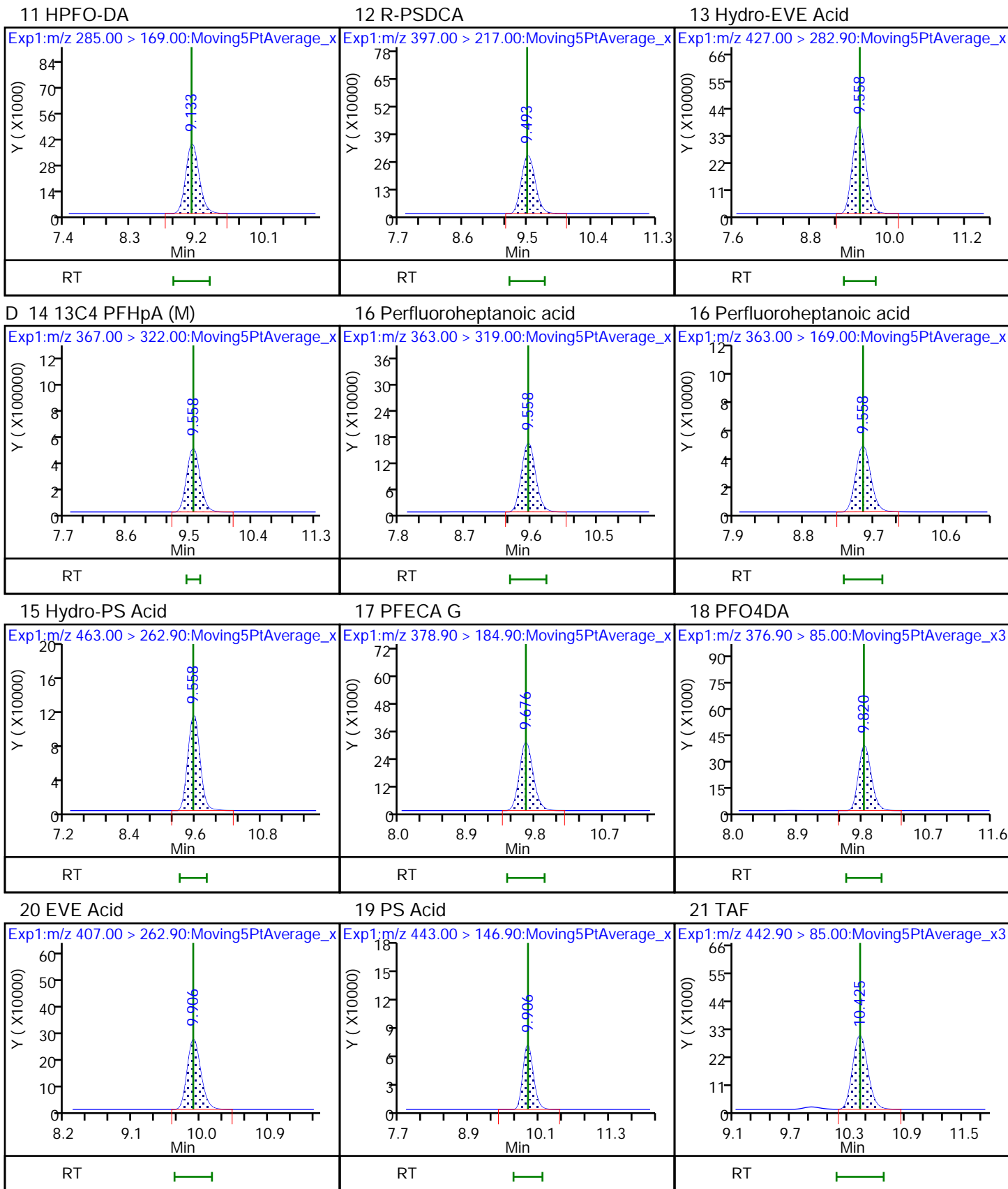


9 PFO3OA



D 10 13C3 HFPO-DA (M)







Eurofins TestAmerica, Sacramento

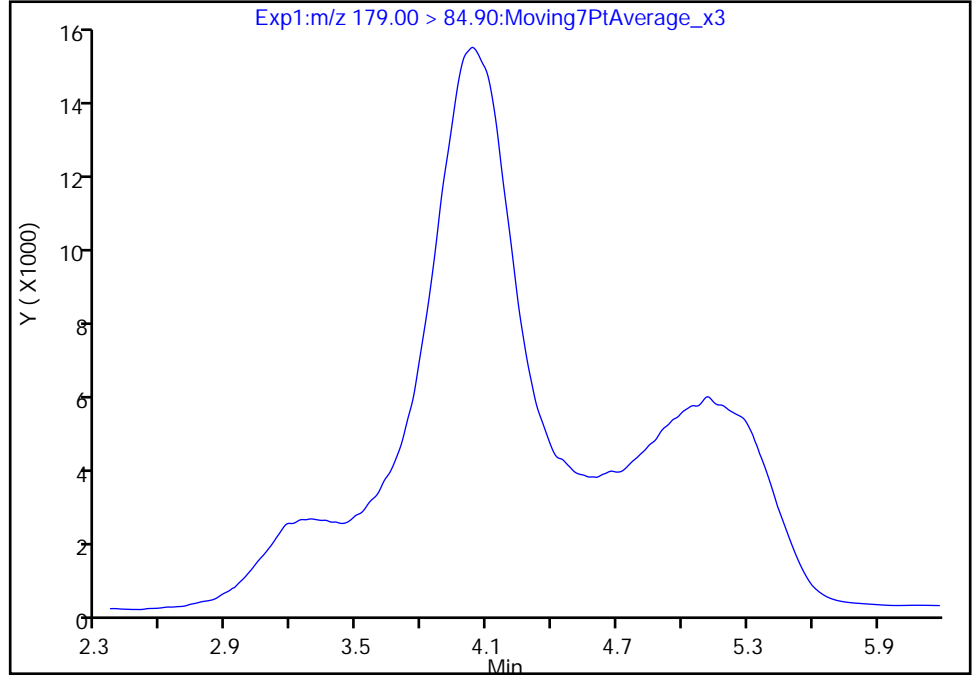
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_029.d  
Injection Date: 09-Mar-2021 23:37:29 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 29 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

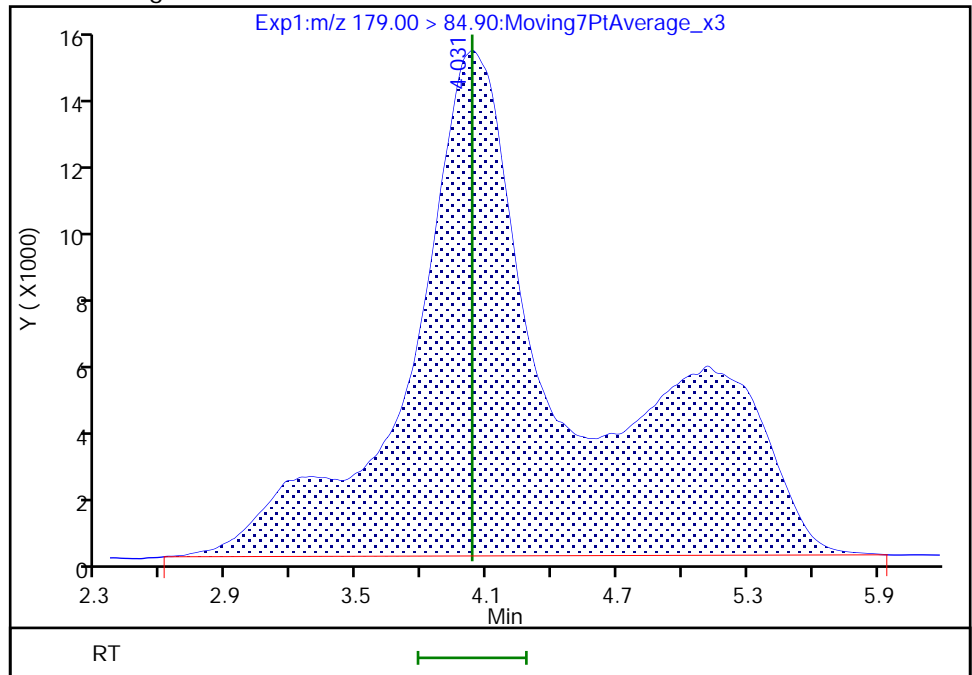
Signal: 1

Not Detected  
Expected RT: 4.03

Processing Integration Results



Manual Integration Results



RT: 4.03  
Area: 815985  
Amount: 0.072687  
Amount Units: ng/ml

Reviewer: ruangyotsakuld, 10-Mar-2021 15:13:04

Audit Action: Manually Integrated

Audit Reason: Baseline



Eurofins TestAmerica, Sacramento

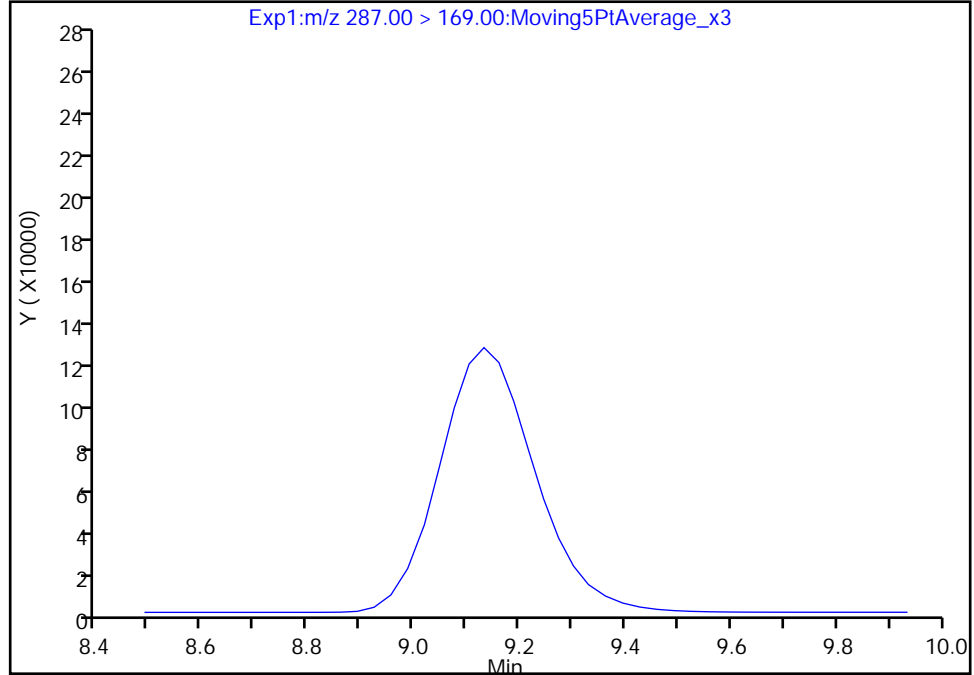
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_029.d  
Injection Date: 09-Mar-2021 23:37:29 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 29 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

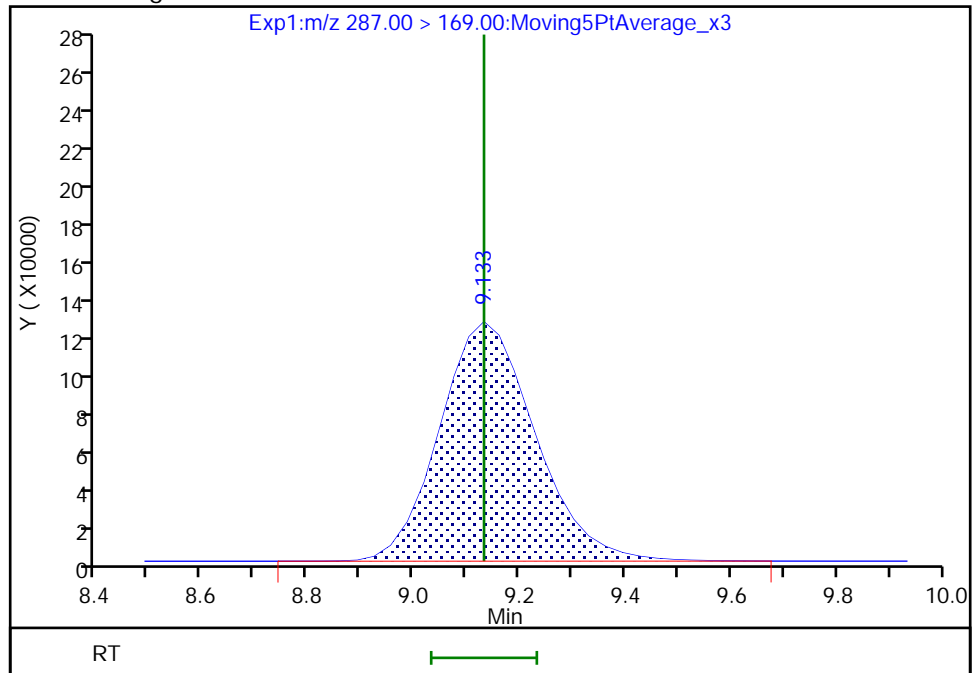
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.13  
Area: 1557630  
Amount: 0.246274  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 10-Mar-2021 15:12:52

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

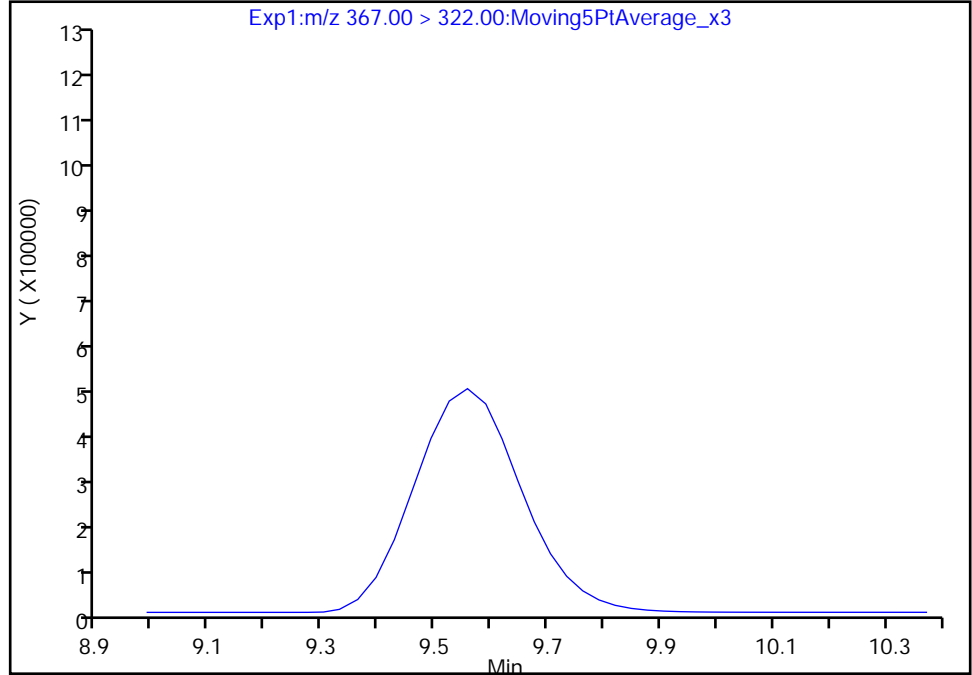
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_029.d  
Injection Date: 09-Mar-2021 23:37:29 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 29 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 14 13C4 PFHpA, CAS: STL01892  
Signal: 1

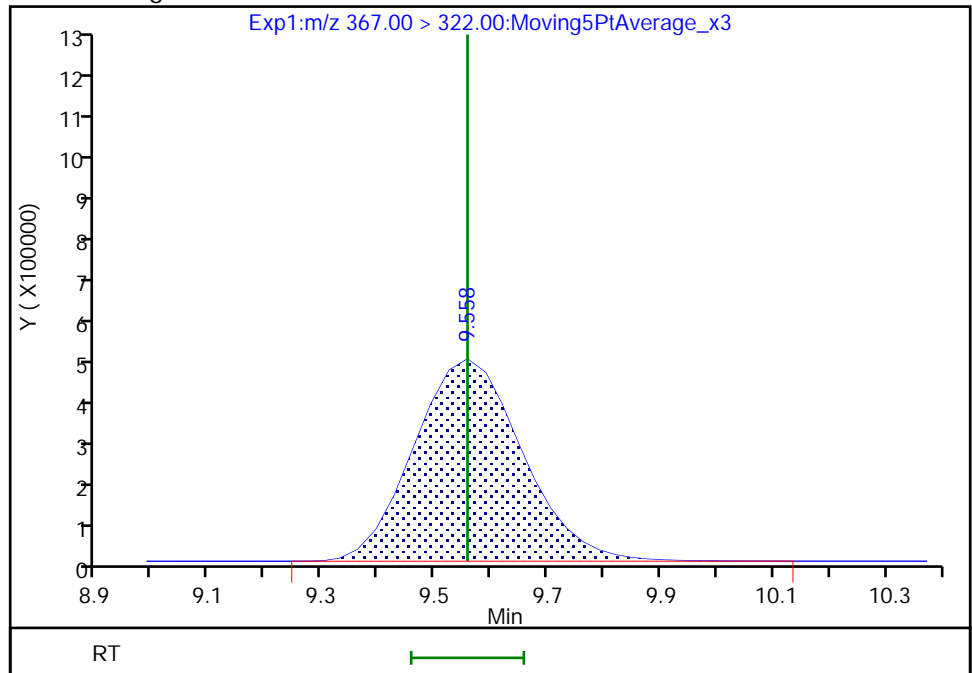
Not Detected  
Expected RT: 9.56

Processing Integration Results



RT: 9.56  
Area: 6533178  
Amount: 0.240802  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-468770/14 Calibration Date: 03/10/2021 03:26  
 Instrument ID: A12 Calib Start Date: 03/08/2021 14:45  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/08/2021 18:35  
 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_042.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	11226068	9924293		66.3	75.0	-11.6	30.0
R-EVE	Ave	5914403	6243933		79.2	75.0	5.6	50.0
R-PSDA	Ave	2679890	2580680		72.2	75.0	-3.7	50.0
Hydrolyzed PSDA	Ave	10098398	9846200		73.1	75.0	-2.5	50.0
PMPA	Ave	17201367	16449960		71.7	75.0	-4.4	30.0
NVHOS	Ave	5299469	5438920		77.0	75.0	2.6	30.0
PFO2HxA	Ave	12587489	12289120		73.2	75.0	-2.4	30.0
PEPA	Ave	5148742	4916720		71.6	75.0	-4.5	30.0
PES	Ave	17753738	17184720		72.6	75.0	-3.2	30.0
PFECA B	Ave	8599515	8208627		71.6	75.0	-4.5	30.0
PFO3OA	Ave	3391331	3368427		74.5	75.0	-0.7	30.0
HFPO-DA	AveID	1.031	1.029		74.9	75.0	-0.2	40.0
R-PSDCA	Ave	50599756	51959453		77.0	75.0	2.7	30.0
Hydro-EVE Acid	Ave	65218805	66628813		76.6	75.0	2.2	30.0
Perfluoroheptanoic acid	AveID	1.097	0.9808		67.0	75.0	-10.6	40.0
Hydro-PS Acid	Ave	23585845	22782493		72.4	75.0	-3.4	30.0
PFECA G	Ave	4517205	4693027		77.9	75.0	3.9	30.0
PFO4DA	Ave	5194562	5723507		82.6	75.0	10.2	30.0
EVE Acid	Ave	38431313	42372253		82.7	75.0	10.3	30.0
PS Acid	Ave	10385008	10768067		77.8	75.0	3.7	30.0
PFO5DA	Ave	4384632	4340880		74.3	75.0	-1.0	50.0
13C3 HFPO-DA	Ave	6324778	6380864		252	250	0.9	50.0
13C4 PFHpA	Ave	27130897	28985904		267	250	6.8	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_042.d  
 Lims ID: CCV L6.5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Mar-2021 03:26:48 ALS Bottle#: 42 Worklist Smp#: 14  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L6.5 (28)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 11:28:18 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 11:28:18

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.137	4.031	0.106		744322	0.0663		88.4	45.7	M
2 R-EVE										
405.00 > 217.00	6.506	6.388	0.118		468295	0.0792		106	7131	
3 R-PSDA										
440.90 > 241.00	6.566	6.448	0.118		193551	0.0722		96.3	2959	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.637	6.508	0.129		738465	0.0731		97.5	13326	
23 PMPA										
229.00 > 185.00	6.802	6.686	0.116		1233747	0.0717		95.6	788	
5 NVHOS										
297.00 > 135.00	7.205	7.088	0.117		407919	0.0770		103	6979	
6 PFO2HxA										
245.00 > 85.00	7.798	7.677	0.121		921684	0.0732		97.6	7591	
22 PEPA										
278.90 > 234.90	8.399	8.296	0.103		368754	0.0716		95.5	799	
7 PES										
314.90 > 135.00	8.653	8.556	0.097		1288854	0.0726		96.8	23134	
8 PFECA B										
295.00 > 201.00	8.890	8.771	0.119		615647	0.0716		95.5	11278	
9 PFO3OA										
310.90 > 85.00	9.130	9.020	0.110		252632	0.0745		99.3	4980	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.243	9.133	0.110		1595216	0.2522		101	31297	M
11 HPFO-DA										
285.00 > 169.00	9.243	9.133	0.110	1.000	492299	0.0749		99.8	9628	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.587	9.493	0.094		3896959	0.0770		103	59282	
13 Hydro-EVE Acid										
427.00 > 282.90	9.645	9.558	0.087		4997161	0.0766		102	28776	
D 14 13C4 PFHpA										
367.00 > 322.00	9.645	9.558	0.087		7246476	0.2671		107	80698	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.645	9.558	0.087	1.000	2132256	0.0670	Target=0.00	89.3	5038	
363.00 > 169.00	9.645	9.558	0.087	1.000	629041		3.39(0.00-0.00)		12261	
15 Hydro-PS Acid										
463.00 > 262.90	9.673	9.558	0.115		1708687	0.0724		96.6	28145	
17 PFECA G										
378.90 > 184.90	9.759	9.676	0.083		351977	0.0779		104	9327	
18 PFO4DA										
376.90 > 85.00	9.932	9.820	0.112		429263	0.0826		110	8624	
20 EVE Acid										
407.00 > 262.90	9.989	9.906	0.083		3177919	0.0827		110	42300	
19 PS Acid										
443.00 > 146.90	9.989	9.906	0.083		807605	0.0778		104	16387	
21 TAF										
442.90 > 85.00	10.495	10.425	0.070		325566	0.0743		99.0	1604	

**QC Flag Legend**

Processing Flags

Review Flags

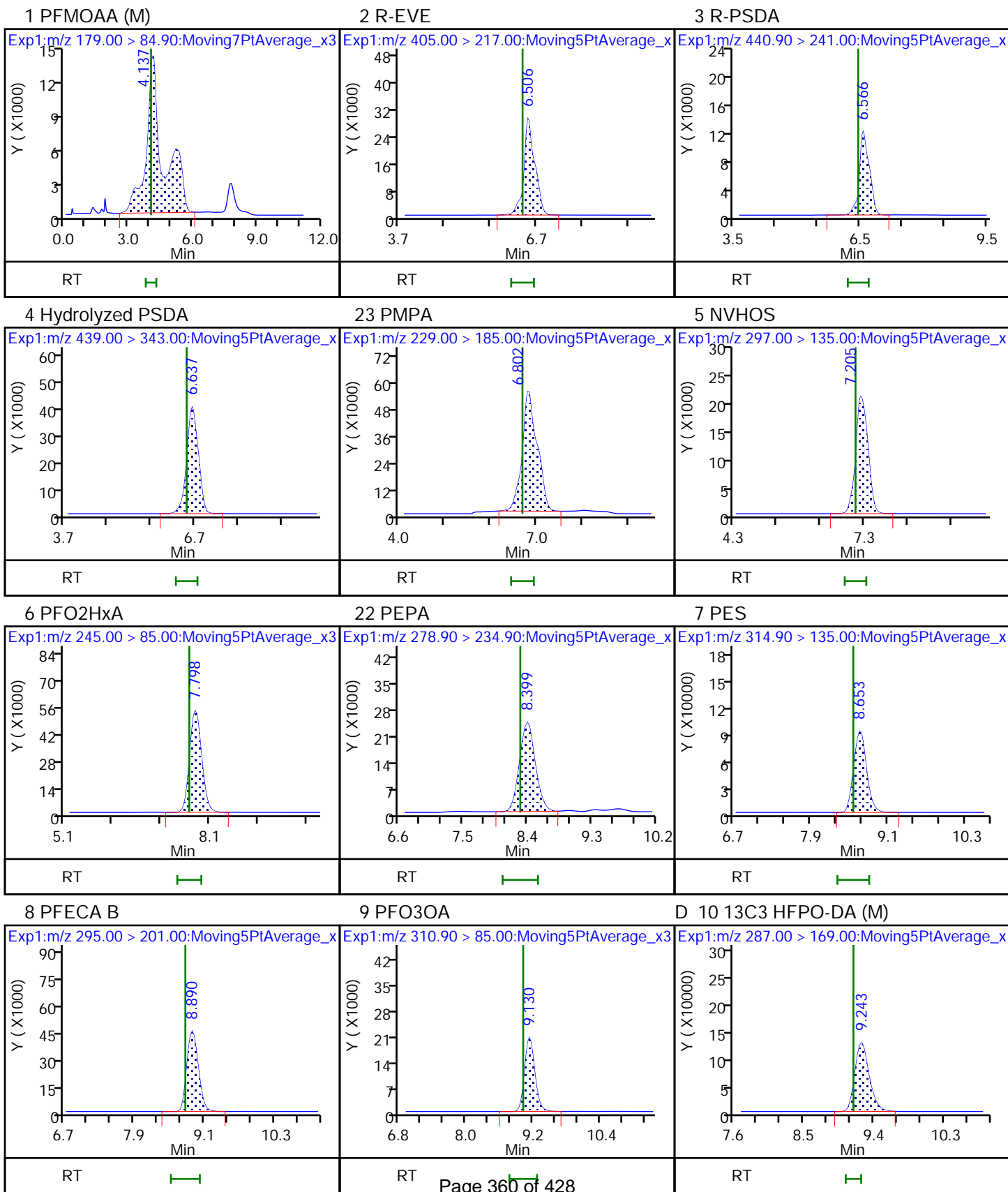
M - Manually Integrated

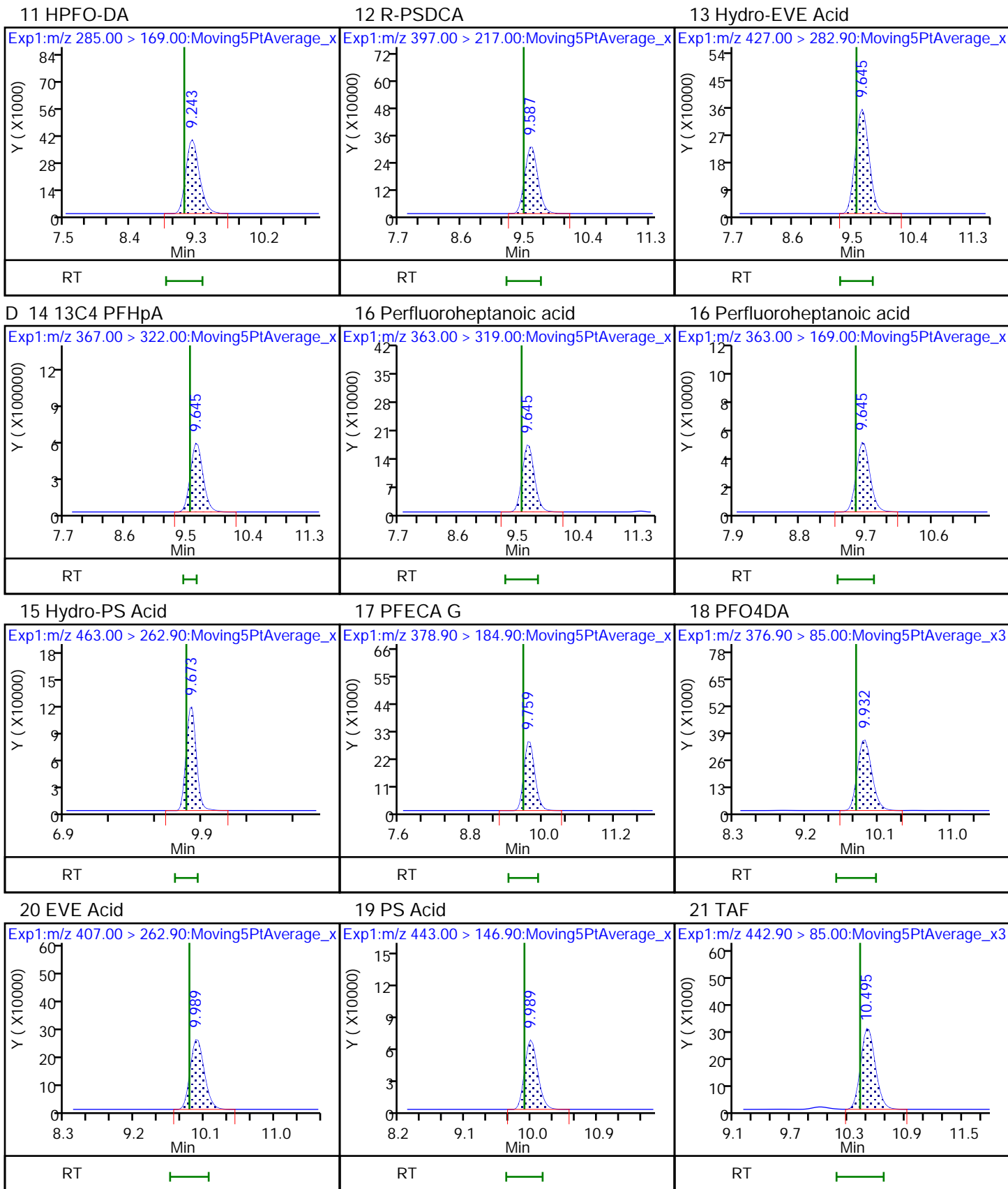
**Reagents:**

LCTB3\_LLCCV\_00028

Amount Added: 1.00

Units: mL









Eurofins TestAmerica, Sacramento

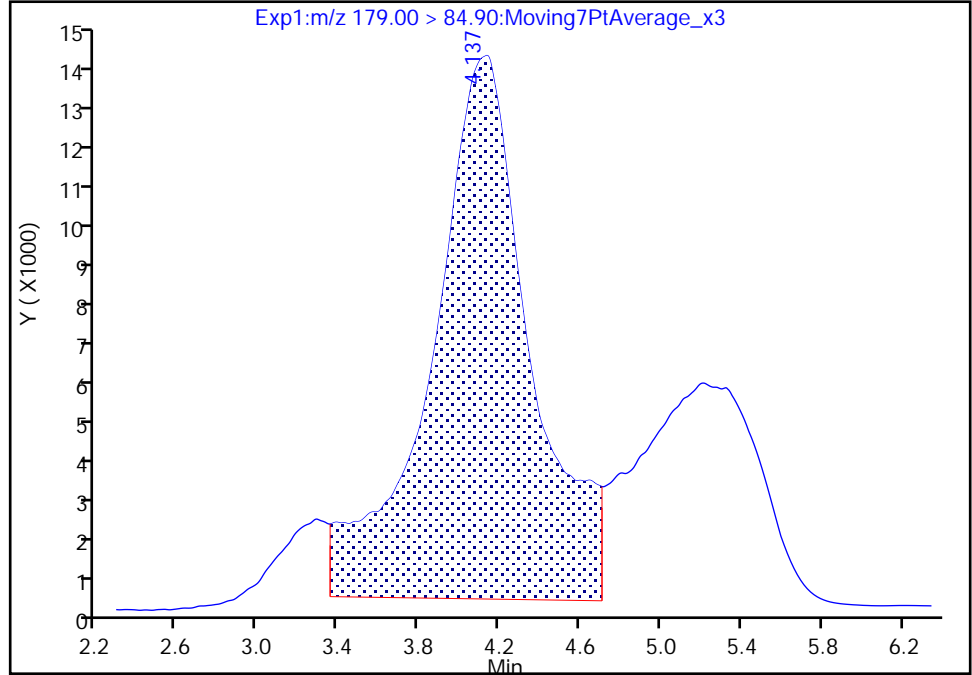
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_042.d  
Injection Date: 10-Mar-2021 03:26:48 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 42 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

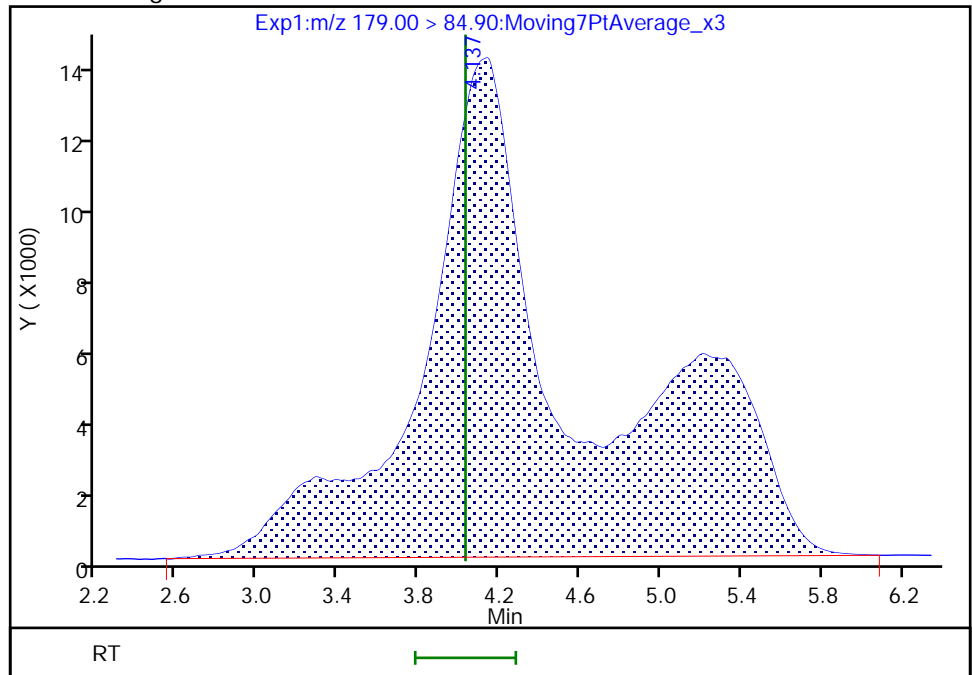
RT: 4.14  
Area: 452532  
Amount: 0.040311  
Amount Units: ng/ml

Processing Integration Results



RT: 4.14  
Area: 744322  
Amount: 0.066303  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 11:24:35  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 363 of 428

Eurofins TestAmerica, Sacramento

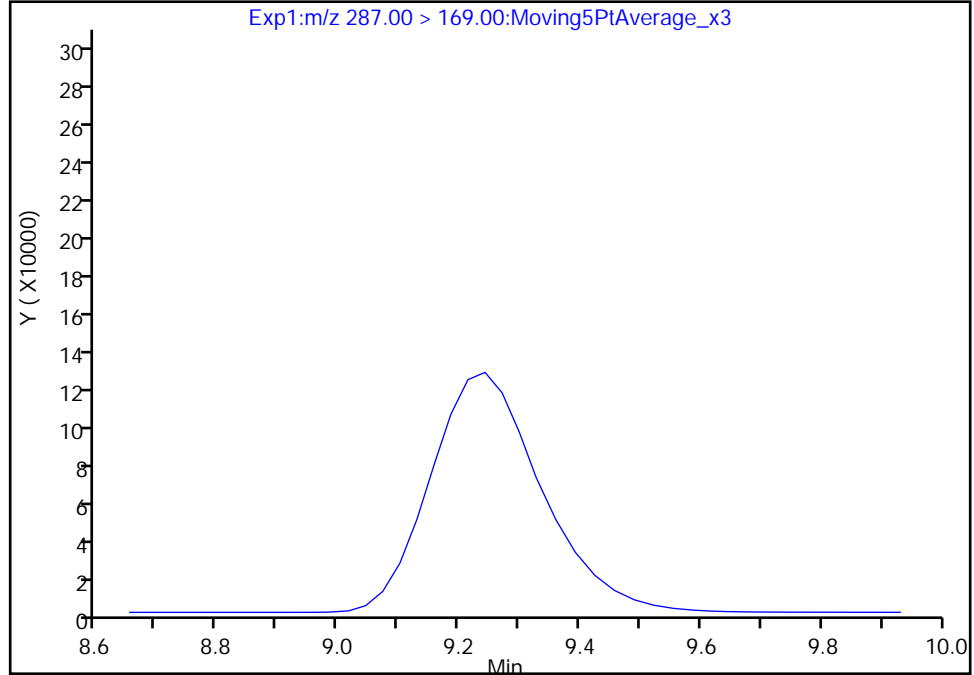
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_042.d  
Injection Date: 10-Mar-2021 03:26:48 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 42 Worklist Smp#: 14  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

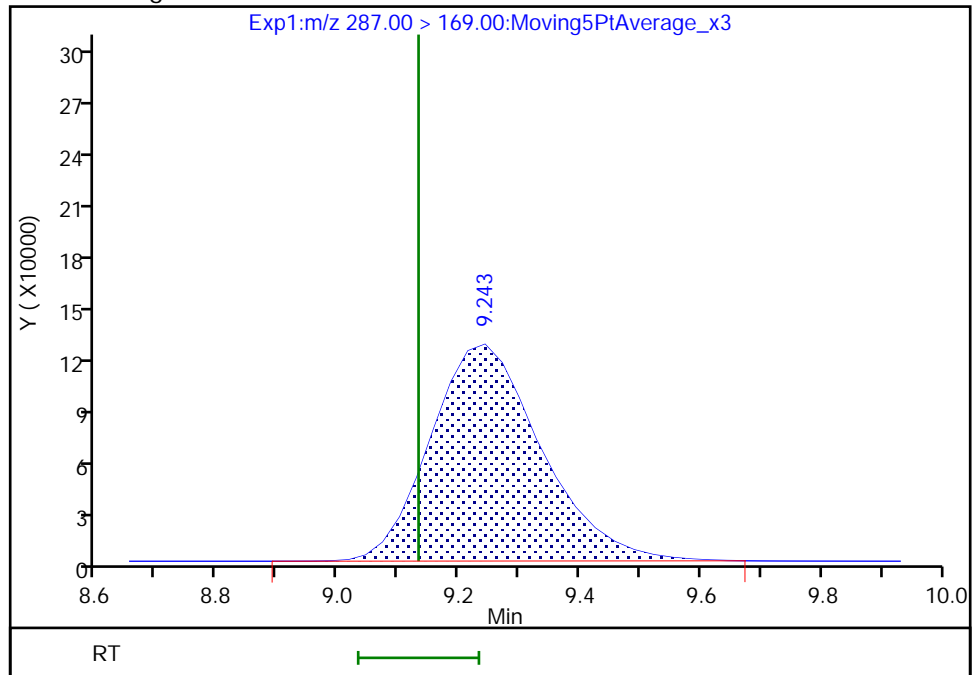
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.24  
Area: 1595216  
Amount: 0.252217  
Amount Units: ng/ml



Reviewer: kwongg, 10-Mar-2021 11:24:29  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 364 of 428

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-468770/27 Calibration Date: 03/10/2021 07:16  
 Instrument ID: A12 Calib Start Date: 03/08/2021 14:45  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/08/2021 18:35  
 Lab File ID: 2021.03.09\_TB3\_A12\_AB\_055.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	11226068	11054653		73.9	75.0	-1.5	30.0
R-EVE	Ave	5914403	6924693		87.8	75.0	17.1	50.0
R-PSDA	Ave	2679890	2776787		77.7	75.0	3.6	50.0
Hydrolyzed PSDA	Ave	10098398	10344547		76.8	75.0	2.4	50.0
PMPA	Ave	17201367	18270427		79.7	75.0	6.2	30.0
NVHOS	Ave	5299469	5814760		82.3	75.0	9.7	30.0
PFO2HxA	Ave	12587489	13809907		82.3	75.0	9.7	30.0
PEPA	Ave	5148742	5480787		79.8	75.0	6.4	30.0
PES	Ave	17753738	18719160		79.1	75.0	5.4	30.0
PFECA B	Ave	8599515	9379200		81.8	75.0	9.1	30.0
PFO3OA	Ave	3391331	3692467		81.7	75.0	8.9	30.0
HFPO-DA	AveID	1.031	1.088		79.2	75.0	5.6	40.0
R-PSDCA	Ave	50599756	58731707		87.1	75.0	16.1	30.0
Hydro-EVE Acid	Ave	65218805	75259000		86.5	75.0	15.4	30.0
Perfluoroheptanoic acid	AveID	1.097	1.128		77.1	75.0	2.9	40.0
Hydro-PS Acid	Ave	23585845	24883733		79.1	75.0	5.5	30.0
PFECA G	Ave	4517205	5476973		90.9	75.0	21.2	30.0
PFO4DA	Ave	5194562	6380787		92.1	75.0	22.8	30.0
EVE Acid	Ave	38431313	48537387		94.7	75.0	26.3	30.0
PS Acid	Ave	10385008	11492813		83.0	75.0	10.7	30.0
PFO5DA	Ave	4384632	4594400		78.6	75.0	4.8	50.0
13C3 HFPO-DA	Ave	6324778	6427656		254	250	1.6	50.0
13C4 PFHpA	Ave	27130897	29448064		271	250	8.5	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_055.d  
 Lims ID: CCV L6.5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 10-Mar-2021 07:16:09 ALS Bottle#: 1 Worklist Smp#: 27  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L6.5 (35)  
 Misc. Info.: Plate: 1 Rack: 3  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3

Method: \\chromfms\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 12:33:32 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfms\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwongg Date: 10-Mar-2021 12:33:15

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.095	4.031	0.064		829099	0.0739		98.5	56.8	M
2 R-EVE										
405.00 > 217.00	6.527	6.388	0.139		519352	0.0878		117	10436	
3 R-PSDA										
440.90 > 241.00	6.567	6.448	0.119		208259	0.0777		104	3169	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.638	6.508	0.130		775841	0.0768		102	13942	
23 PMPA										
229.00 > 185.00	6.827	6.686	0.141		1370282	0.0797		106	1007	
5 NVHOS										
297.00 > 135.00	7.233	7.088	0.145		436107	0.0823		110	7398	
6 PFO2HxA										
245.00 > 85.00	7.799	7.677	0.122		1035743	0.0823		110	9870	
22 PEPA										
278.90 > 234.90	8.400	8.296	0.104		411059	0.0798		106	1664	
7 PES										
314.90 > 135.00	8.651	8.556	0.095		1403937	0.0791		105	24815	
8 PFECA B										
295.00 > 201.00	8.892	8.771	0.121		703440	0.0818		109	12800	
9 PFO3OA										
310.90 > 85.00	9.132	9.020	0.112		276935	0.0817		109	7182	
D 10 13C3 HFPO-DA										M
287.00 > 169.00	9.245	9.133	0.112		1606914	0.2541		102	30945	M
11 HPFO-DA										
285.00 > 169.00	9.245	9.133	0.112	1.000	524454	0.0792		106	13465	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.618	9.493	0.125		4404878	0.0871		116	55475	
13 Hydro-EVE Acid										
427.00 > 282.90	9.647	9.558	0.089		5644425	0.0865		115	32404	
D 14 13C4 PFHpA										
367.00 > 322.00	9.647	9.558	0.089		7362016	0.2714		109	70572	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.647	9.558	0.089	1.000	2492354	0.0771	Target=0.00	103	11229	
363.00 > 169.00	9.647	9.558	0.089	1.000	710097		3.51(0.00-0.00)		13603	
15 Hydro-PS Acid										
463.00 > 262.90	9.676	9.558	0.118		1866280	0.0791		106	30424	
17 PFECA G										
378.90 > 184.90	9.762	9.676	0.086		410773	0.0909		121	10717	
18 PFO4DA										
376.90 > 85.00	9.934	9.820	0.114		478559	0.0921		123	7561	
20 EVE Acid										
407.00 > 262.90	9.991	9.906	0.085		3640304	0.0947		126	40876	
19 PS Acid										
443.00 > 146.90	9.991	9.906	0.085		861961	0.0830		111	22958	
21 TAF										
442.90 > 85.00	10.521	10.425	0.096		344580	0.0786		105	1633	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLCCV\_00028

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_055.d

Injection Date: 10-Mar-2021 07:16:09

Instrument ID: A12

Lims ID: CCV L6.5

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 1

Worklist Smp#: 27

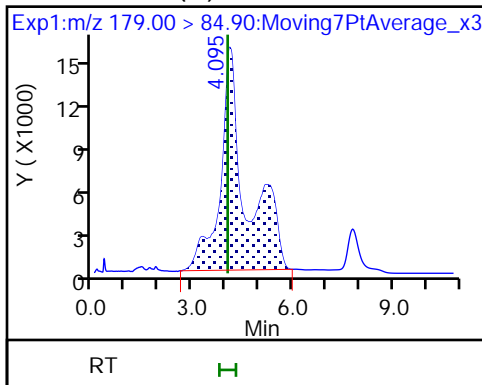
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

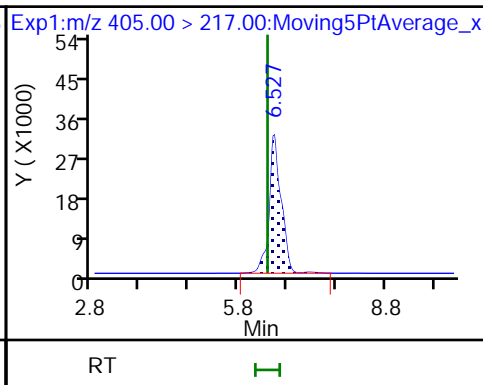
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

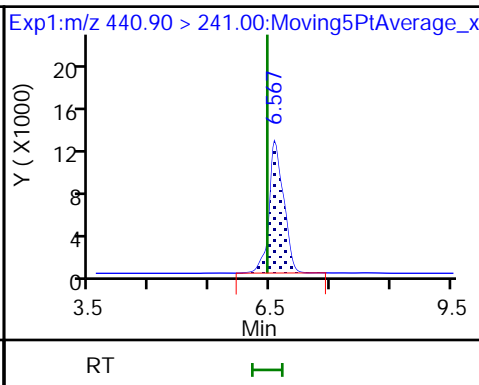
1 PFMOAA (M)



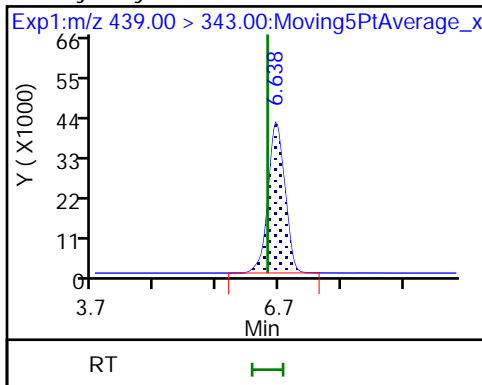
2 R-EVE



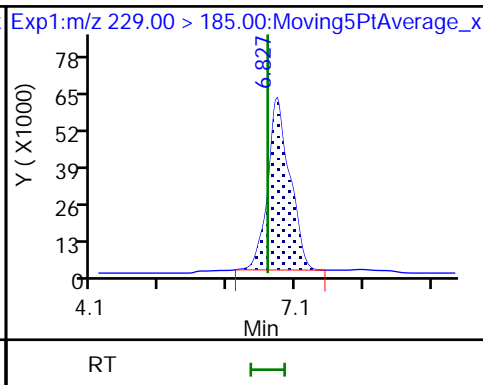
3 R-PSDA



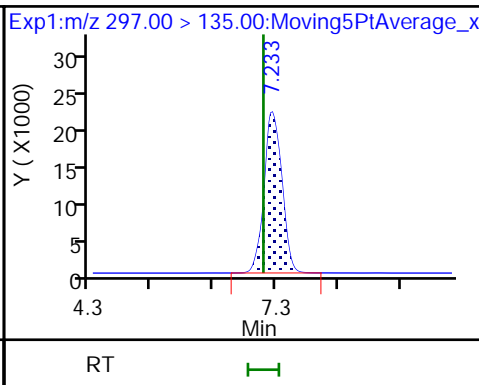
4 Hydrolyzed PSDA



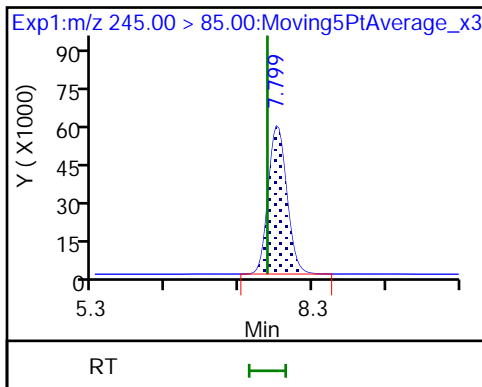
23 PMPA



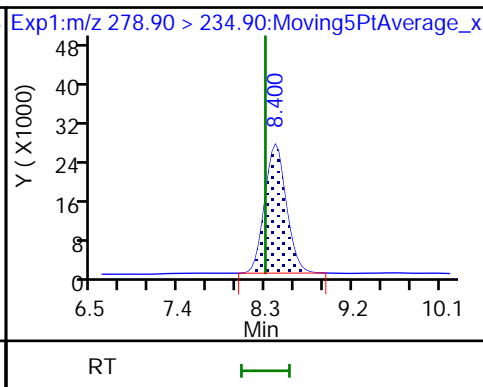
5 NVHOS



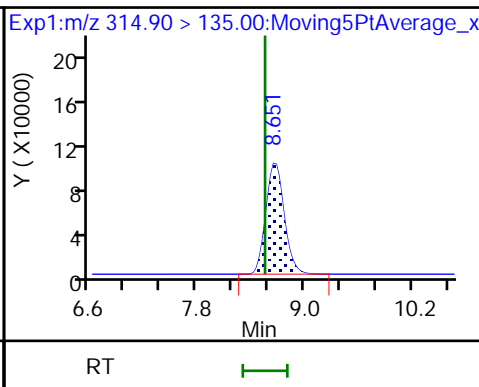
6 PFO2HxA



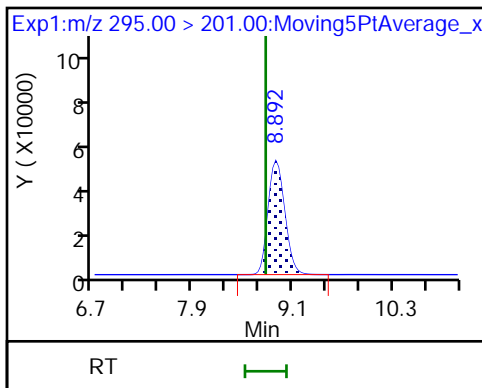
22 PEPA



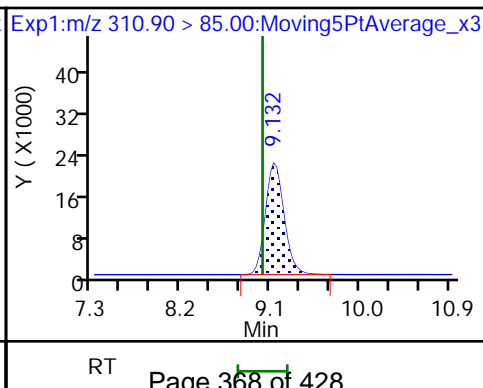
7 PES



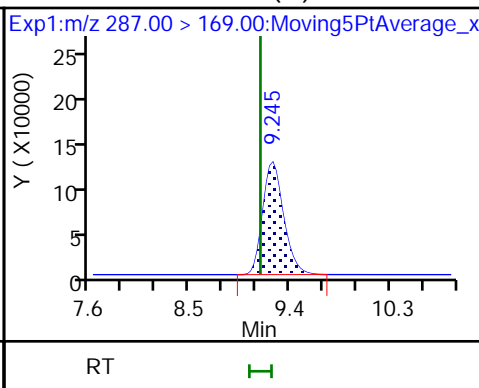
8 PFECA B

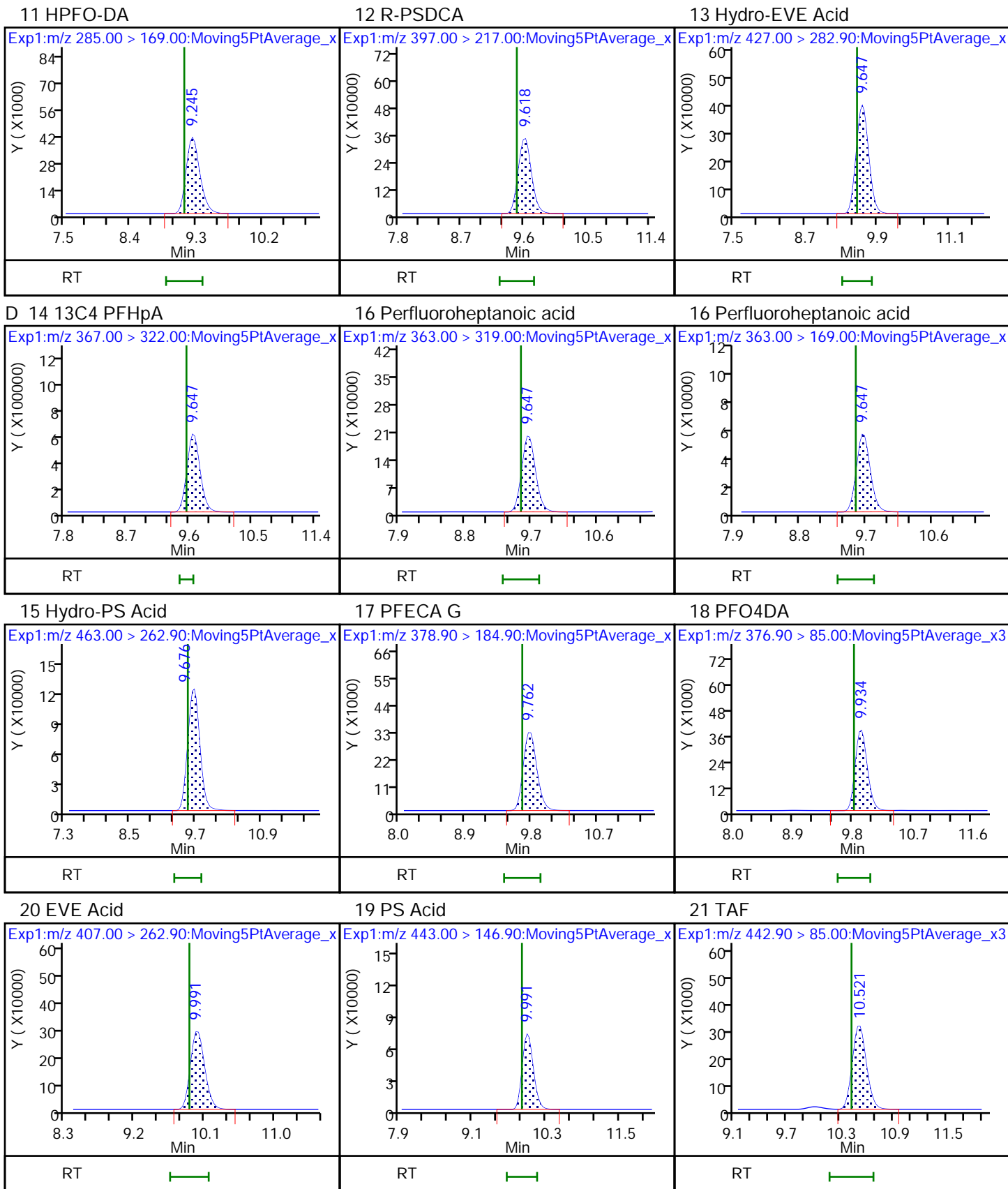


9 PFO3OA



D 10 13C3 HFPO-DA (M)









Eurofins TestAmerica, Sacramento

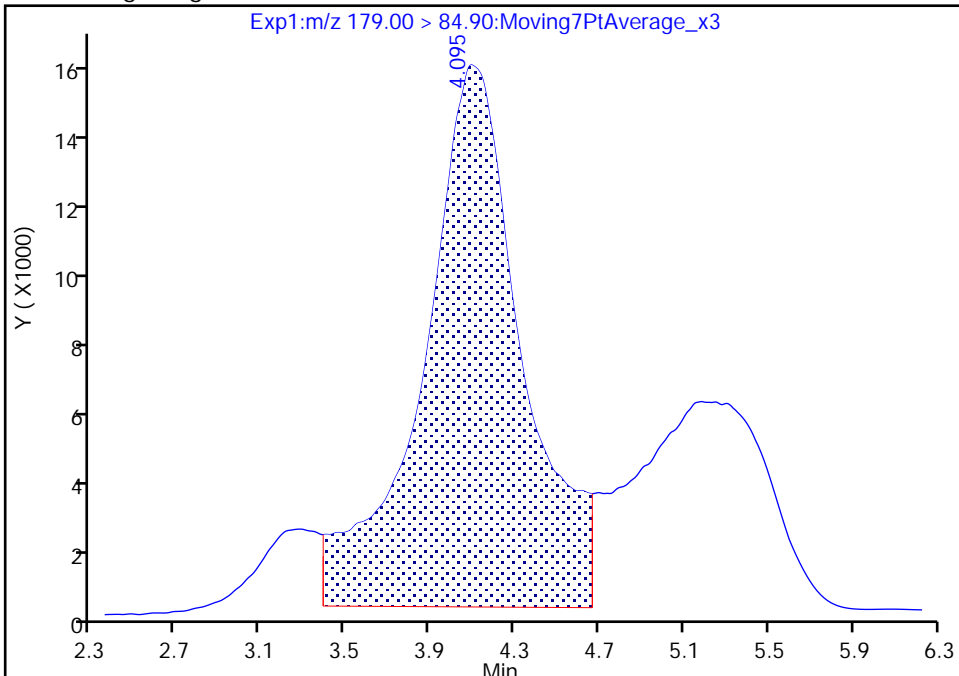
Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_055.d  
Injection Date: 10-Mar-2021 07:16:09 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 1 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

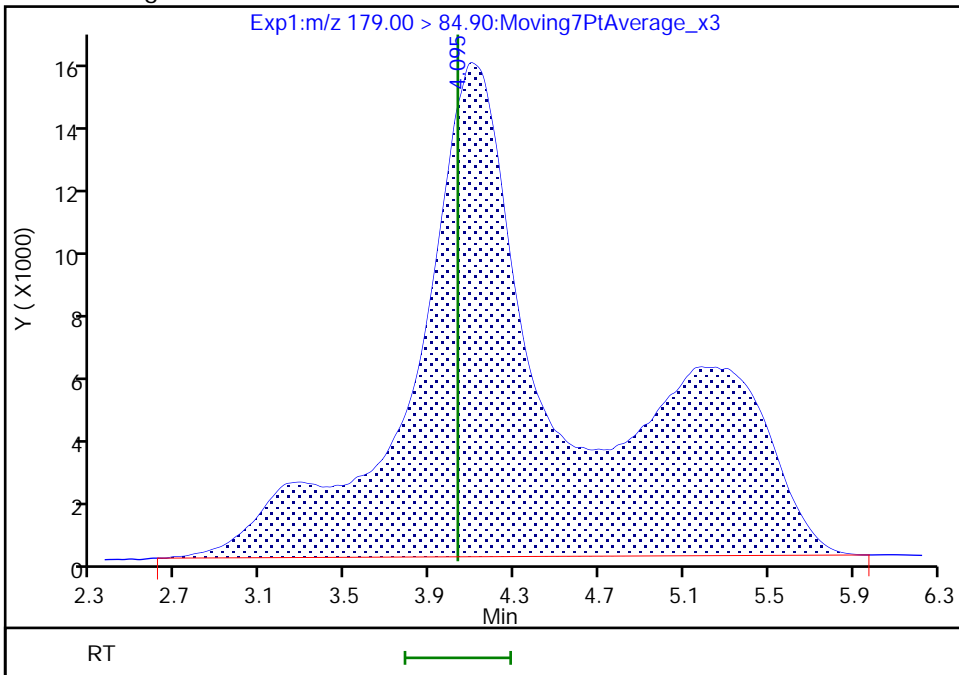
RT: 4.10  
Area: 503624  
Amount: 0.044862  
Amount Units: ng/ml

Processing Integration Results



RT: 4.10  
Area: 829099  
Amount: 0.073855  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:33:06  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 371 of 428

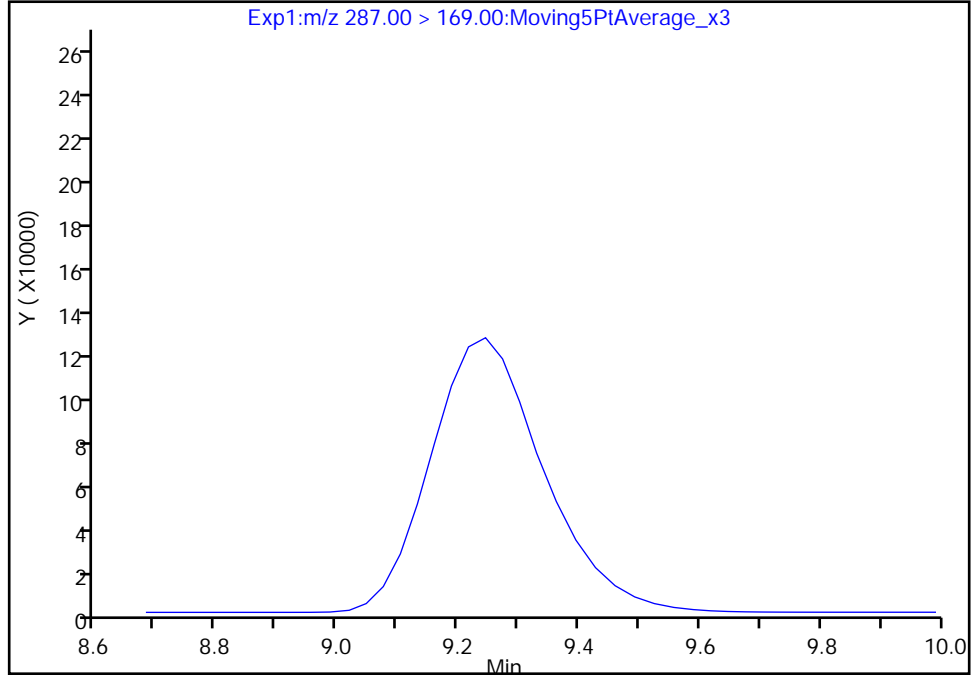
Eurofins TestAmerica, Sacramento

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_055.d  
Injection Date: 10-Mar-2021 07:16:09 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 1 Worklist Smp#: 27  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm ID) Detector: EXP1

**D 10 13C3 HFPO-DA, CAS: STL02255**  
Signal: 1

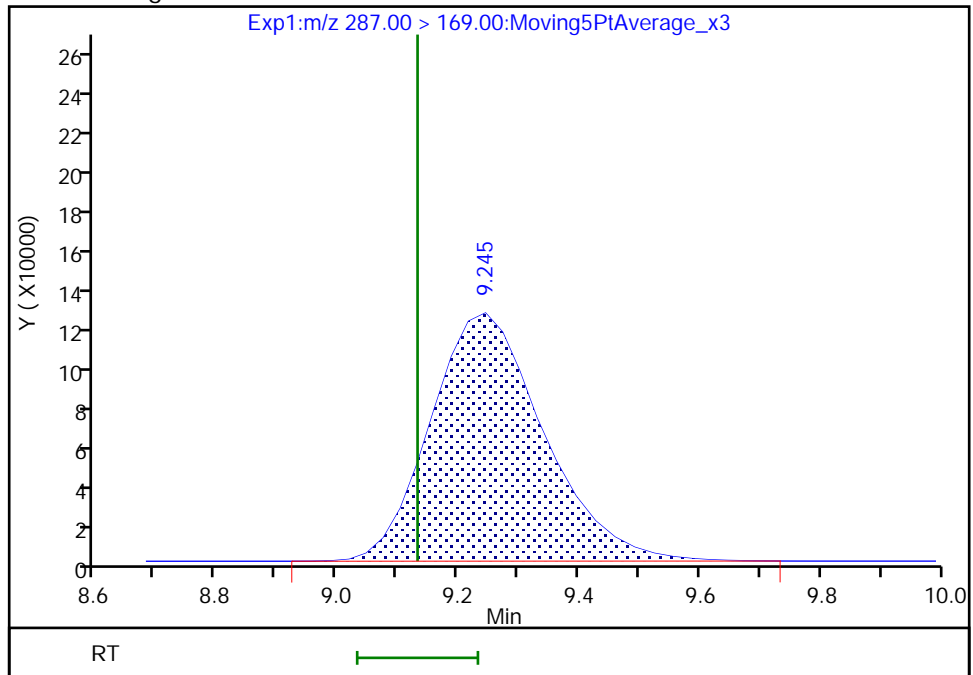
Not Detected  
Expected RT: 9.13

Processing Integration Results



RT: 9.25  
Area: 1606914  
Amount: 0.254066  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwongg, 10-Mar-2021 12:33:00  
Audit Action: Manually Integrated

Audit Reason: Assign Peak  
Page 372 of 428

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: ICV 320-469371/18 Calibration Date: 03/11/2021 16:39  
 Instrument ID: A12 Calib Start Date: 03/11/2021 12:14  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/11/2021 16:03  
 Lab File ID: 2021.03.11\_A12\_TB3\_ICAL\_A\_021.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10341163	10560800		102	100	2.1	30.0
R-EVE	Ave	6629533	7129010		108	100	7.5	50.0
R-PSDA	Ave	3285358	3352700		102	100	2.0	50.0
Hydrolyzed PSDA	Ave	12801417	13327900		104	100	4.1	50.0
PMPA	Lin2		18941260		97.4	100	-2.6	30.0
NVHOS	Ave	7306624	7008010		95.9	100	-4.1	30.0
PFO2HxA	Ave	15425990	15400110		99.8	100	-0.2	30.0
PEPA	Ave	6664120	6687760		100	100	0.4	30.0
PES	Ave	24200272	24891950		103	100	2.9	30.0
PFECA B	Ave	11324142	11172540		98.7	100	-1.3	30.0
PFO3OA	Ave	4860185	5585860		115	100	14.9	30.0
Perfluoro(2-propoxypropanoic ) acid	AveID	1.103	1.045		94.7	100	-5.3	40.0
R-PSDCA	Ave	54111617	61336760		113	100	13.4	30.0
Hydro-EVE Acid	Ave	76085192	85684410		113	100	12.6	30.0
Hydro-PS Acid	Ave	31357635	33986550		108	100	8.4	30.0
Perfluoroheptanoic acid	L2ID		1.182		100	100	0.0	40.0
PFECA G	Ave	5915402	6434280		109	100	8.8	30.0
PFO4DA	Ave	6551414	5582320		85.2	100	-14.8	30.0
PS Acid	Ave	13433412	14272300		106	100	6.2	30.0
EVE Acid	Ave	51038831	50773070		99.5	100	-0.5	30.0
PFO5DA	Ave	5755285	6448060		112	100	12.0	50.0
13C3 HFPO-DA	Ave	7781896	7755712		249	250	-0.3	50.0
13C4 PFHpA	Ave	24472087	27421460		280	250	12.1	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_021.d  
 Lims ID: ICV  
 Client ID:  
 Sample Type: ICV  
 Inject. Date: 11-Mar-2021 16:39:03 ALS Bottle#: 21 Worklist Smp#: 18  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: ICV (50)  
 Misc. Info.: Plate: 1 Rack: 4  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist:

Method: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 12-Mar-2021 11:44:14 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d

Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1669

First Level Reviewer: kwongg Date: 11-Mar-2021 17:00:43

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.779	4.235	-0.456		1056080	0.1021		62.4		M
2 R-EVE										M
405.00 > 217.00	6.370	6.390	-0.020		712901	0.1075		6565		M
3 R-PSDA										
440.90 > 241.00	6.430	6.450	-0.020		335270	0.1020		3260		
4 Hydrolyzed PSDA										
439.00 > 343.00	6.509	6.529	-0.020		1332790	0.1041		16391		
23 PMPA										
229.00 > 185.00	6.758	6.782	-0.024		1894126	0.0974		2078		
5 NVHOS										
297.00 > 135.00	7.137	7.138	-0.001		700801	0.0959		11613		
6 PFO2HxA										
245.00 > 85.00	7.771	7.709	0.062		1540011	0.0998		15348		
22 PEPA										
278.90 > 234.90	8.335	8.299	0.036		668776	0.1004		4527		
7 PES										
314.90 > 135.00	8.621	8.556	0.064		2489195	0.1029		46485		
8 PFECA B										
295.00 > 201.00	8.829	8.800	0.029		1117254	0.0987		22011		
9 PFO3OA										
310.90 > 85.00	9.076	9.048	0.028		558586	0.1149		15568		
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.189	9.133	0.056		1938928	0.2492		99.7	32717	
11 HPFO-DA										
285.00 > 169.00	9.189	9.133	0.056	1.000	810734	0.0947			11488	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.525	9.493	0.032		6133676	0.1134			80721	
13 Hydro-EVE Acid										
427.00 > 282.90	9.590	9.525	0.065		8568441	0.1126			66986	
D 14 13C4 PFHpA										
367.00 > 322.00	9.590	9.558	0.032		6855365	0.2801		112	91810	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.590	9.558	0.032	1.000	3239910	0.1000	Target=0.00		26188	
363.00 > 169.00	9.590	9.558	0.032	1.000	822875		3.94(0.00-0.00)		9465	
15 Hydro-PS Acid										
463.00 > 262.90	9.590	9.558	0.032		3398655	0.1084			57838	
17 PFECA G										
378.90 > 184.90	9.705	9.676	0.029		643428	0.1088			18355	
18 PFO4DA										
376.90 > 85.00	9.848	9.820	0.028		558232	0.0852			12007	
20 EVE Acid										
407.00 > 262.90	9.934	9.877	0.057		5077307	0.0995			61926	
19 PS Acid										
443.00 > 146.90	9.906	9.877	0.029		1427230	0.1062			40737	
21 TAF										
442.90 > 85.00	10.425	10.374	0.051		644806	0.1120			2749	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLICV\_00050

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_021.d

Injection Date: 11-Mar-2021 16:39:03

Instrument ID: A12

Lims ID: ICV

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 21

Worklist Smp#: 18

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

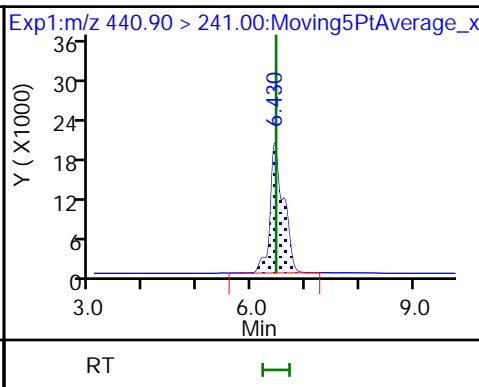
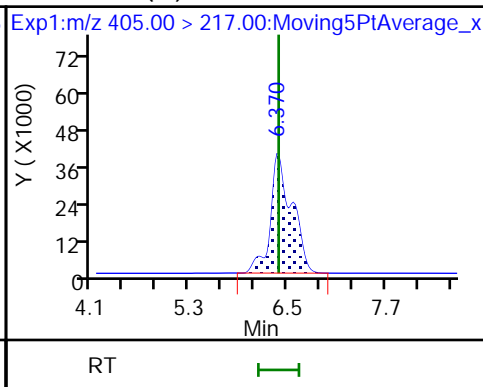
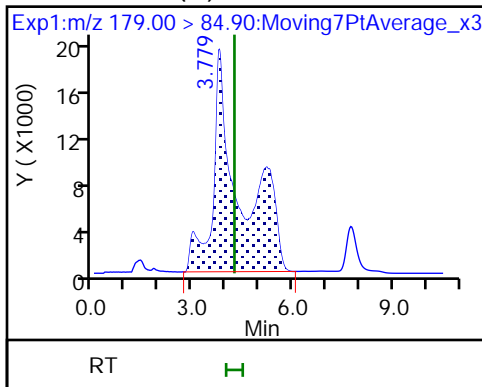
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

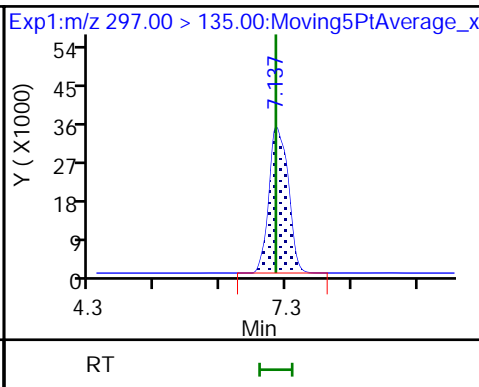
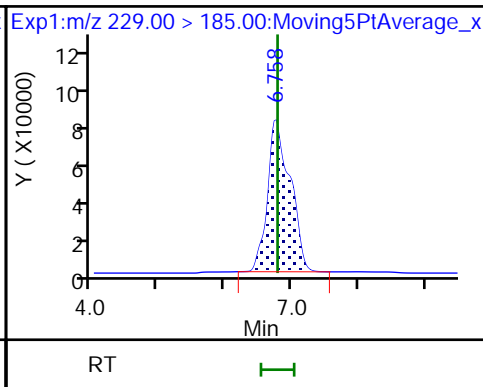
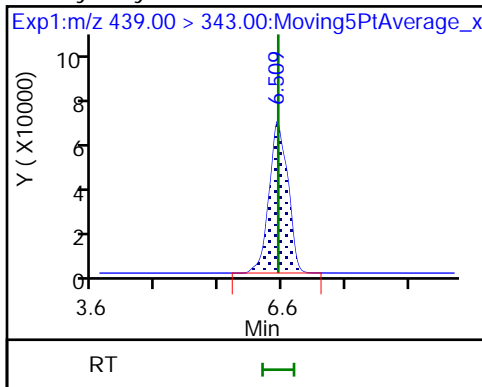
3 R-PSDA



4 Hydrolyzed PSDA

23 PMPA

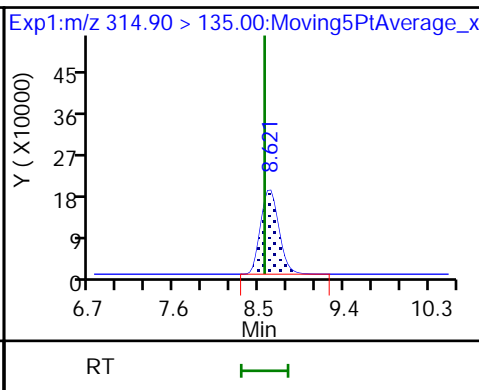
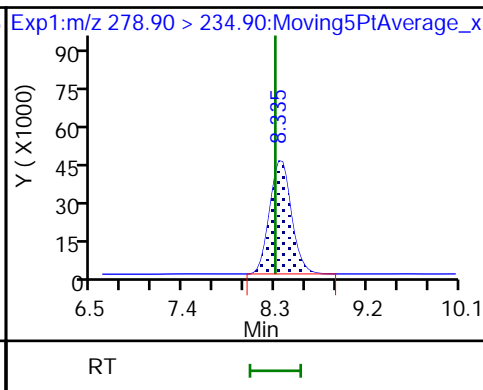
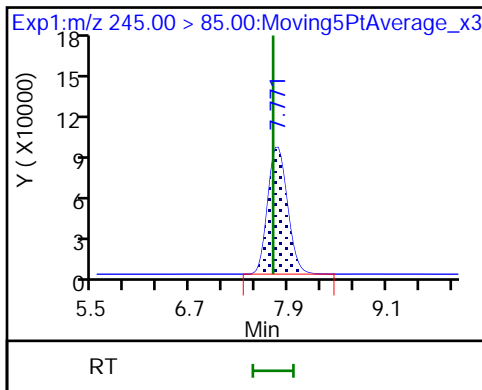
5 NVHOS



6 PFO2HxA

22 PEPA

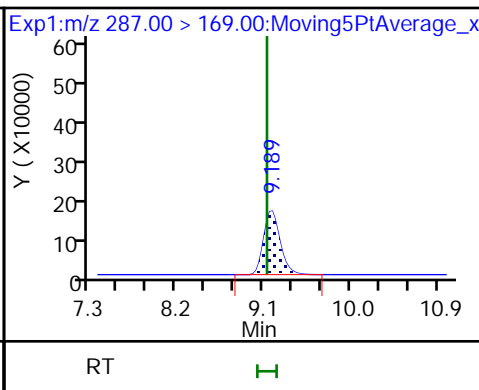
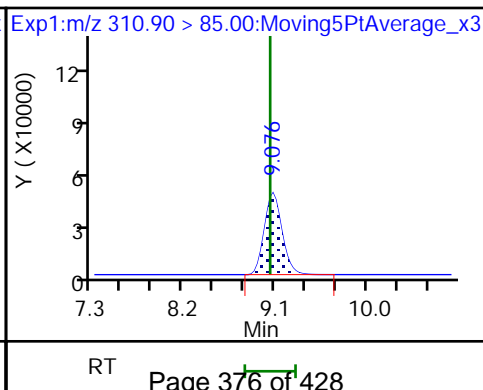
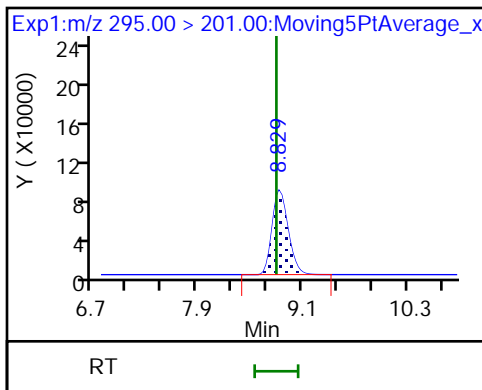
7 PES

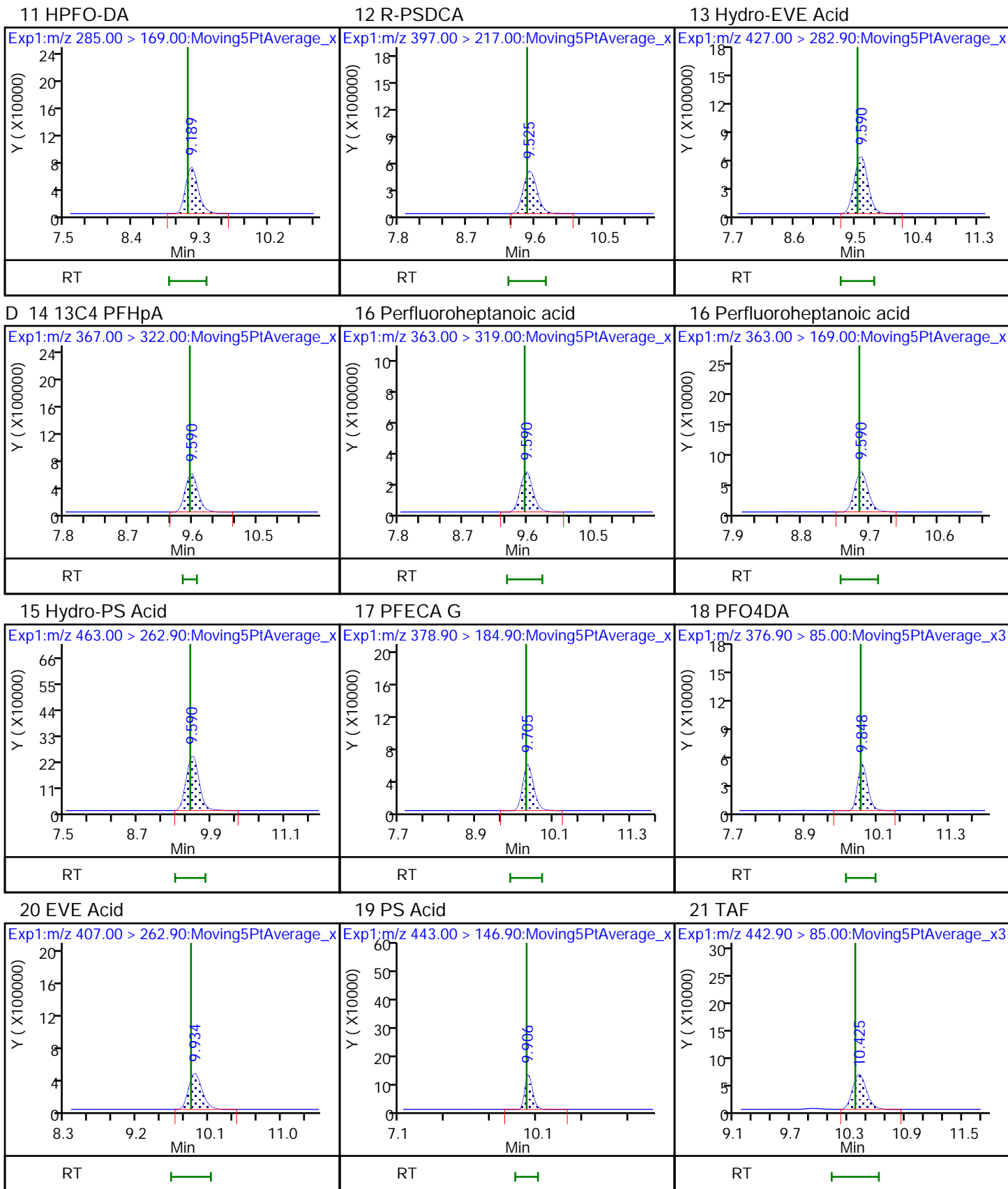


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

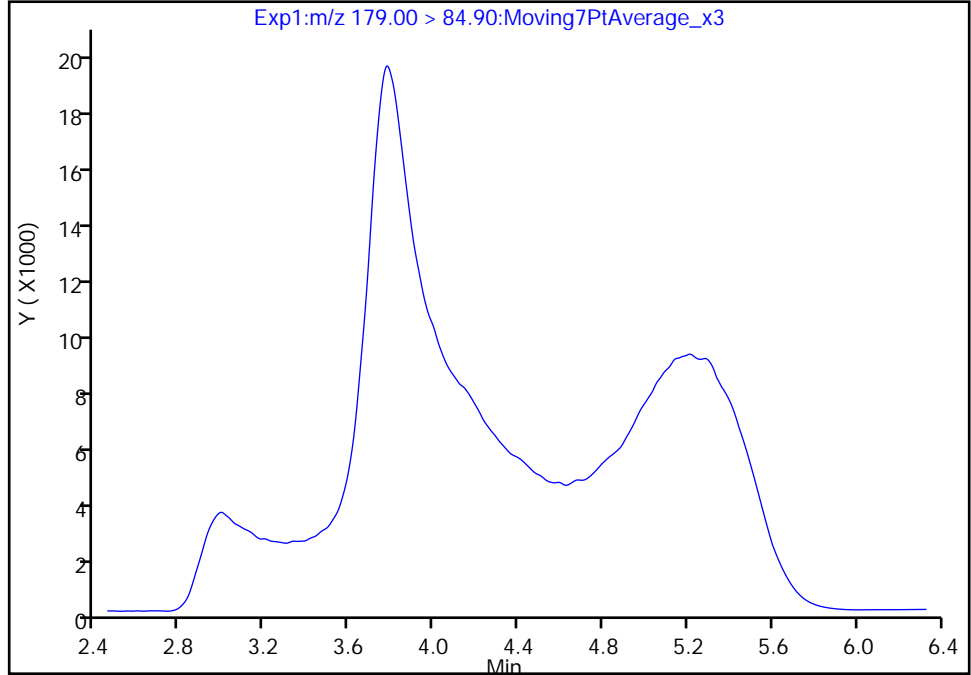
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Injection Date: 11-Mar-2021 16:39:03 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 21 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

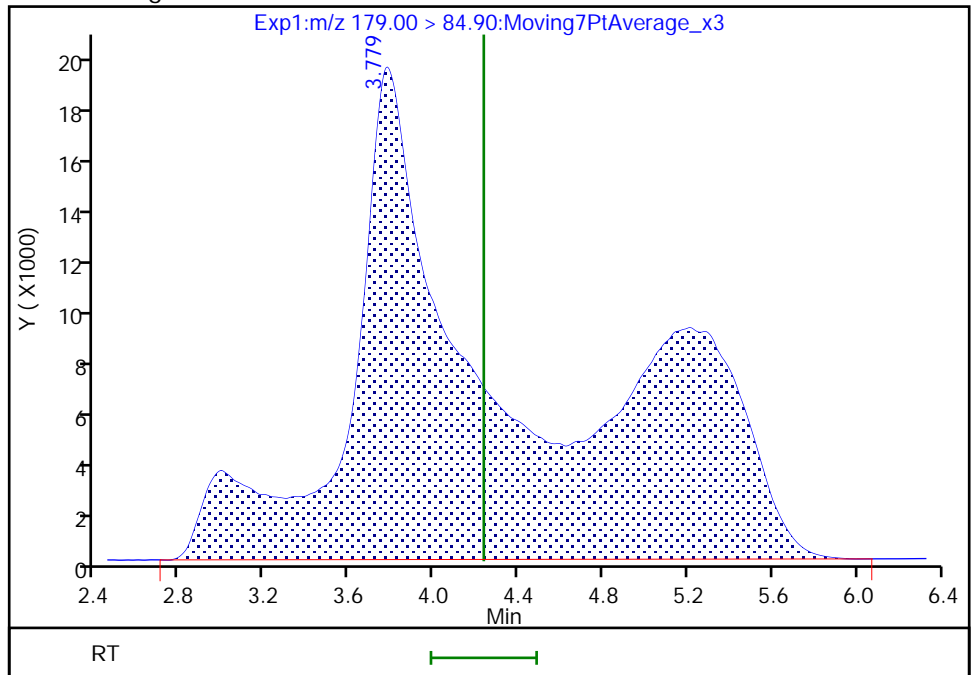
Not Detected  
Expected RT: 4.24

Processing Integration Results



RT: 3.78  
Area: 1056080  
Amount: 0.102124  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwong, 11-Mar-2021 17:00:38  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

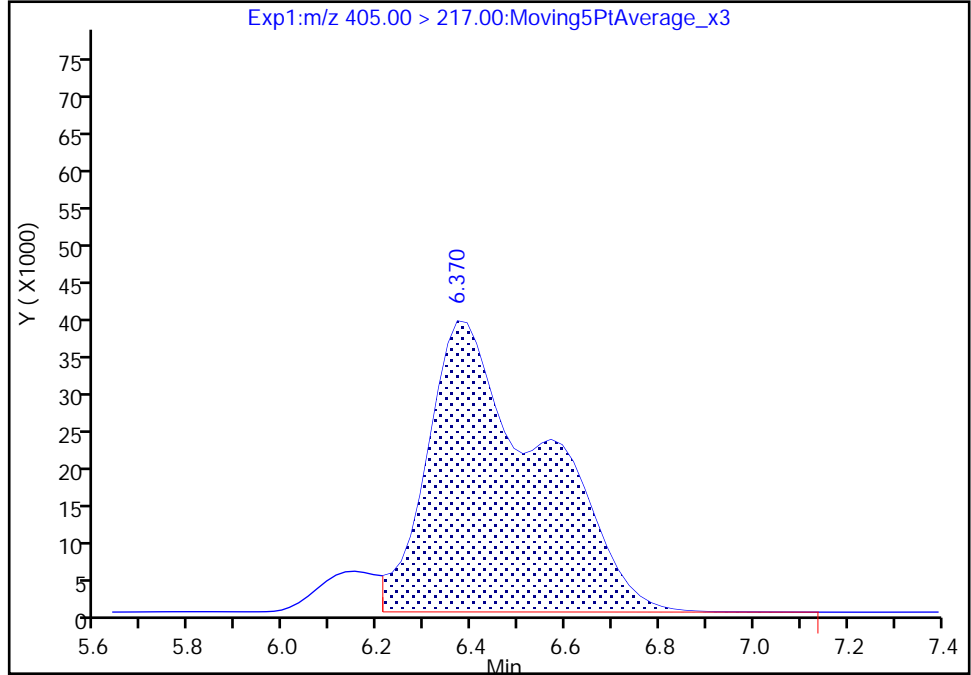
Data File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_021.d  
Injection Date: 11-Mar-2021 16:39:03 Instrument ID: A12  
Lims ID: ICV  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 21 Worklist Smp#: 18  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

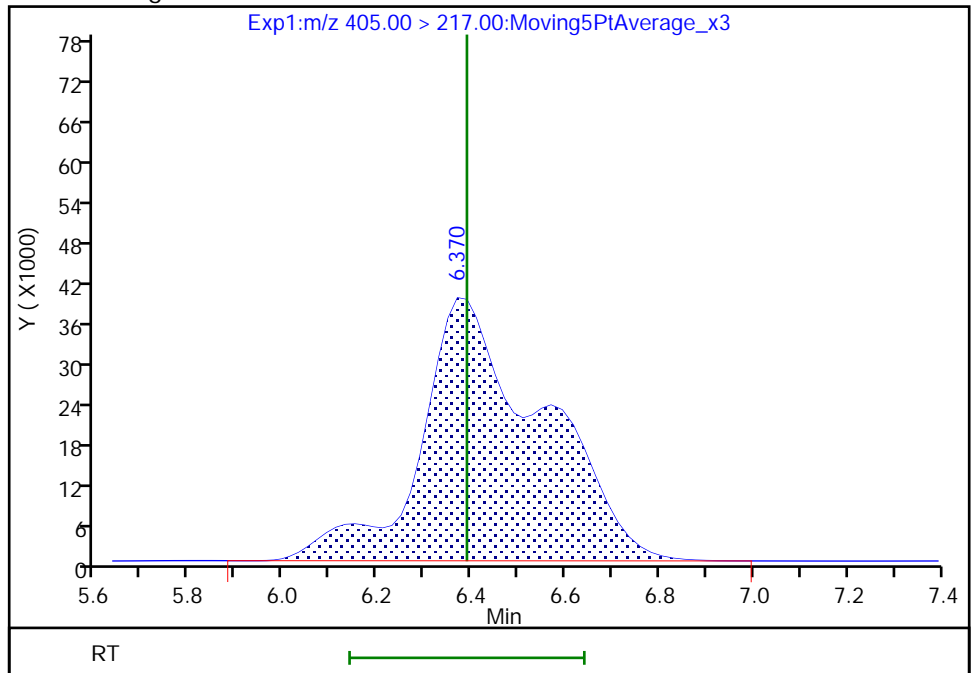
RT: 6.37  
Area: 665446  
Amount: 0.099991  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 712901  
Amount: 0.107534  
Amount Units: ng/ml

Manual Integration Results



Reviewer: kwong, 11-Mar-2021 17:00:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 380 of 428

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-469973/1 Calibration Date: 03/13/2021 05:56  
 Instrument ID: A12 Calib Start Date: 03/11/2021 12:14  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/11/2021 16:03  
 Lab File ID: 2021.03.12\_A12\_TB3\_C\_002.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10341163	10232867		74.2	75.0	-1.0	30.0
R-EVE	Ave	6629533	5936960		67.2	75.0	-10.4	50.0
R-PSDA	Ave	3285358	2498987		57.0	75.0	-23.9	50.0
Hydrolyzed PSDA	Ave	12801417	9876760		57.9	75.0	-22.8	50.0
PMPA	Lin2		17445240		66.8	75.0	-11.0	30.0
NVHOS	Ave	7306624	6076133		62.4	75.0	-16.8	30.0
PFO2HxA	Ave	15425990	13461907		65.5	75.0	-12.7	30.0
PEPA	Ave	6664120	5121373		57.6	75.0	-23.2	30.0
PES	Ave	24200272	18811040		58.3	75.0	-22.3	30.0
PFECA B	Ave	11324142	9298933		61.6	75.0	-17.9	30.0
PFO3OA	Ave	4860185	3577773		55.2	75.0	-26.4	30.0
Perfluoro(2-propoxypropanoic ) acid	AveID	1.103	1.101		74.8	75.0	-0.2	40.0
R-PSDCA	Ave	54111617	50386853		69.8	75.0	-6.9	30.0
Hydro-EVE Acid	Ave	76085192	71650920		70.6	75.0	-5.8	30.0
Hydro-PS Acid	Ave	31357635	26633227		63.7	75.0	-15.1	30.0
Perfluoroheptanoic acid	L2ID		1.092		69.2	75.0	-7.7	40.0
PFECA G	Ave	5915402	5710080		72.4	75.0	-3.5	30.0
PFO4DA	Ave	6551414	6031667		69.0	75.0	-7.9	30.0
EVE Acid	Ave	51038831	45117493		66.3	75.0	-11.6	30.0
PS Acid	Ave	13433412	12491840		69.7	75.0	-7.0	30.0
PFO5DA	Ave	5755285	4271347		55.7	75.0	-25.8	50.0
13C3 HFPO-DA	Ave	7781896	6239376		200	250	-19.8	50.0
13C4 PFHpA	Ave	24472087	26717220		273	250	9.2	50.0

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_002.d  
 Lims ID: CCV L6.5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Mar-2021 05:56:01 ALS Bottle#: 2 Worklist Smp#: 1  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L6.5 (40)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Mar-2021 09:42:11 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1648

First Level Reviewer: yuj Date: 13-Mar-2021 09:42:11

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.236	4.235	0.001		767465	0.0742		99.0	24.1	M
2 R-EVE										M
405.00 > 217.00	6.446	6.390	0.056		445272	0.0672		89.6	1206	M
3 R-PSDA										
440.90 > 241.00	6.486	6.450	0.036		187424	0.0570		76.1	1885	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.566	6.529	0.037		740757	0.0579		77.2	15099	
23 PMPA										
229.00 > 185.00	6.826	6.782	0.044		1308393	0.0668		89.0	1673	
5 NVHOS										
297.00 > 135.00	7.182	7.138	0.044		455710	0.0624		83.2	10052	
6 PFO2HxA										
245.00 > 85.00	7.768	7.709	0.059		1009643	0.0655		87.3	11380	
22 PEPA										
278.90 > 234.90	8.366	8.299	0.067		384103	0.0576		76.8	2229	
7 PES										
314.90 > 135.00	8.622	8.556	0.066		1410828	0.0583		77.7	26669	
8 PFECA B										
295.00 > 201.00	8.827	8.800	0.027		697420	0.0616		82.1	13890	
9 PFO3OA										
310.90 > 85.00	9.074	9.048	0.026		268333	0.0552		73.6	7536	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.186	9.133	0.053		1559844	0.2004		80.2	33280	
11 HPFO-DA										
285.00 > 169.00	9.186	9.133	0.053	1.000	515267	0.0748		99.8	8853	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.522	9.493	0.029		3779014	0.0698		93.1	59695	
13 Hydro-EVE Acid										
427.00 > 282.90	9.587	9.525	0.062		5373819	0.0706		94.2	47364	
D 14 13C4 PFHpA										
367.00 > 322.00	9.587	9.558	0.029		6679305	0.2729		109	90285	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.587	9.558	0.029	1.000	2189135	0.0692	Target=0.00	92.3	13703	
363.00 > 169.00	9.587	9.558	0.029	1.000	658999		3.32(0.00-0.00)		10718	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.558	0.029		1997492	0.0637		84.9	33690	
17 PFECA G										
378.90 > 184.90	9.702	9.676	0.026		428256	0.0724		96.5	12231	
18 PFO4DA										
376.90 > 85.00	9.846	9.820	0.026		452375	0.0690		92.1	9756	
20 EVE Acid										
407.00 > 262.90	9.932	9.877	0.055		3383812	0.0663		88.4	48488	
19 PS Acid										
443.00 > 146.90	9.932	9.877	0.055		936888	0.0697		93.0	20057	
21 TAF										
442.90 > 85.00	10.425	10.374	0.051		320351	0.0557		74.2	1693	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLCCV\_00041

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_002.d

Injection Date: 13-Mar-2021 05:56:01

Instrument ID: A12

Lims ID: CCV L6.5

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 2

Worklist Smp#: 1

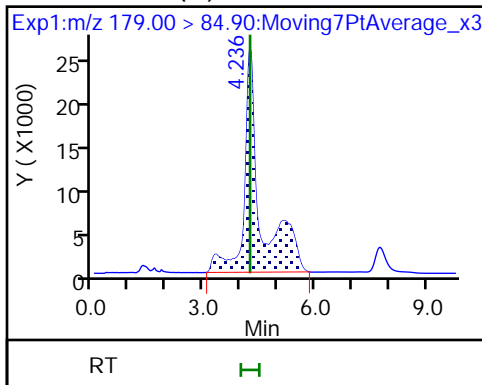
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

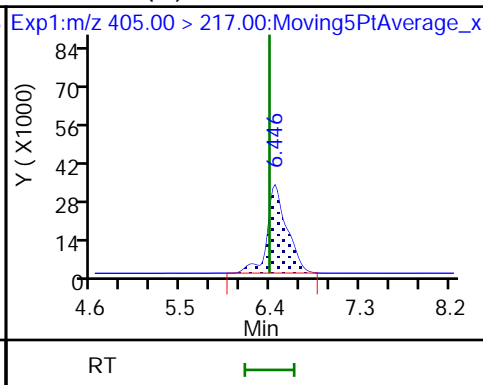
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

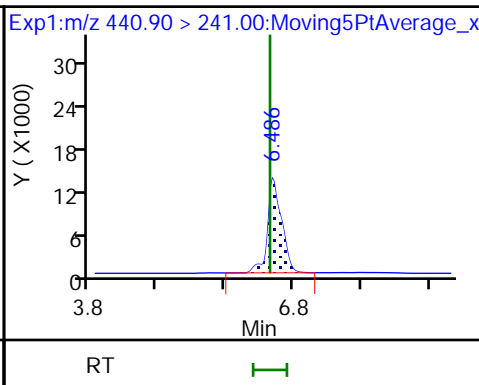
1 PFMOAA (M)



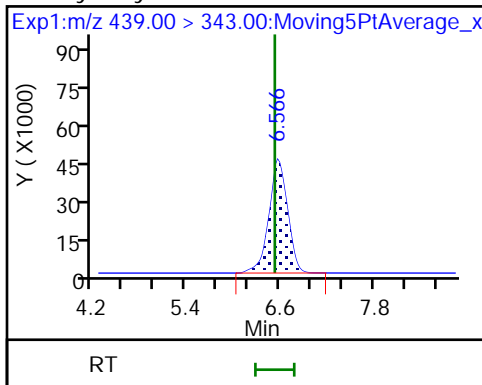
2 R-EVE (M)



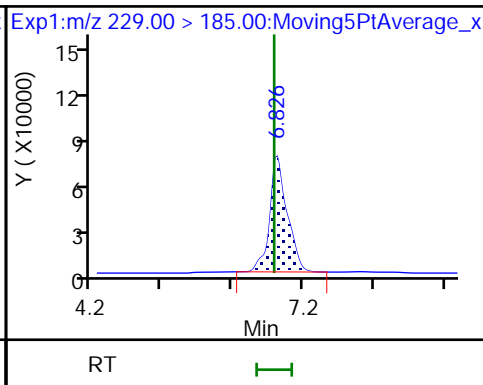
3 R-PSDA



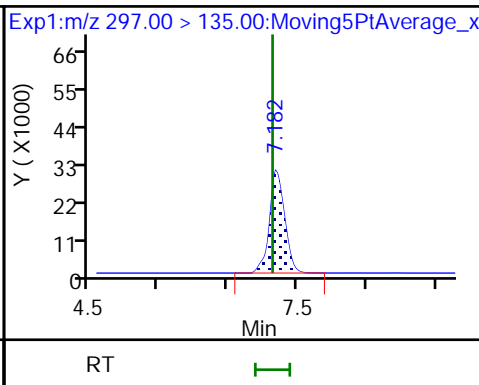
4 Hydrolyzed PSDA



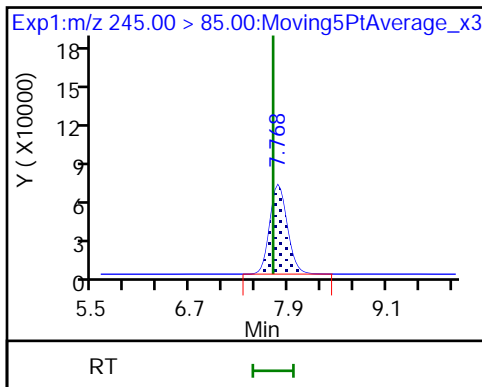
23 PMPA



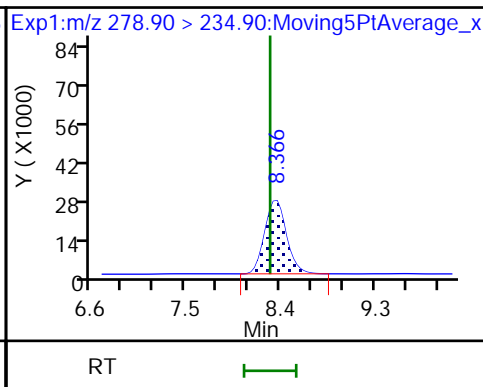
5 NVHOS



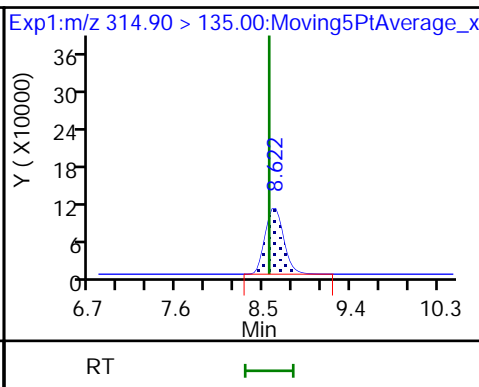
6 PFO2HxA



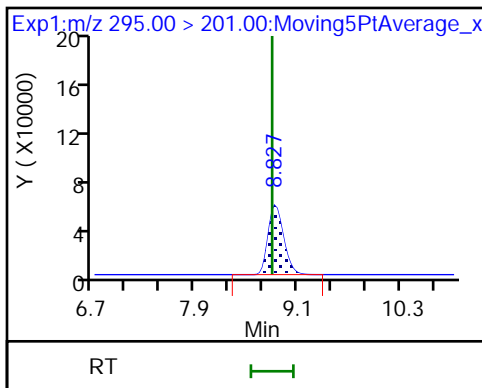
22 PEPA



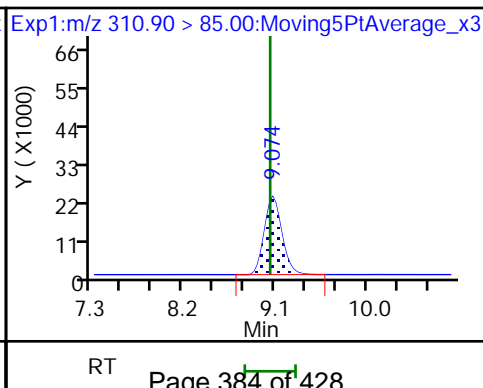
7 PES



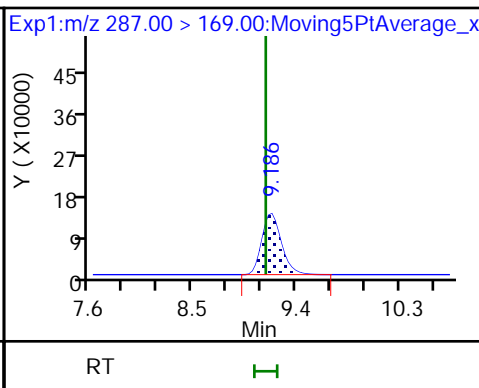
8 PFECA B

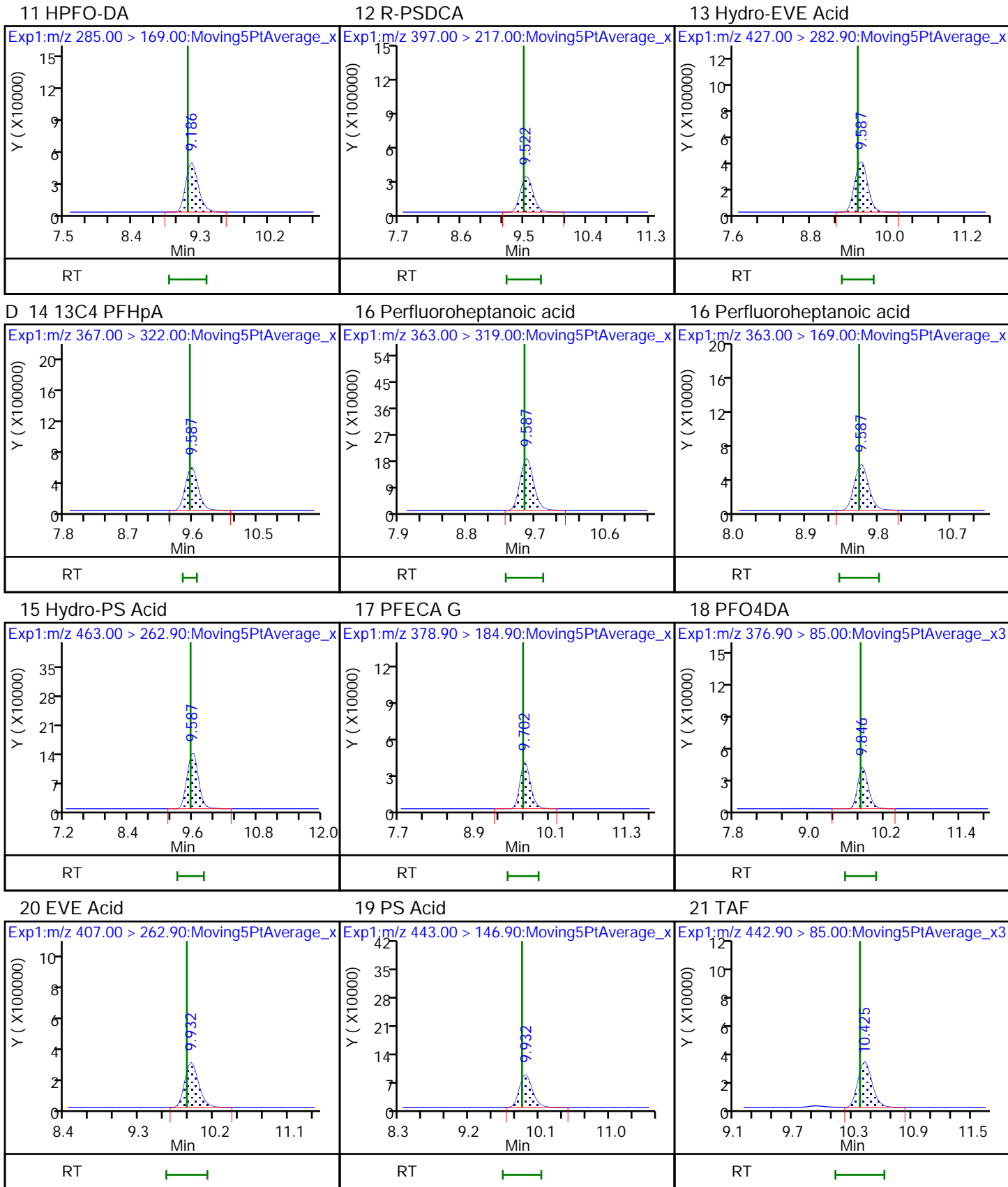


9 PFO3OA



D 10 13C3 HFPO-DA









Eurofins TestAmerica, Sacramento

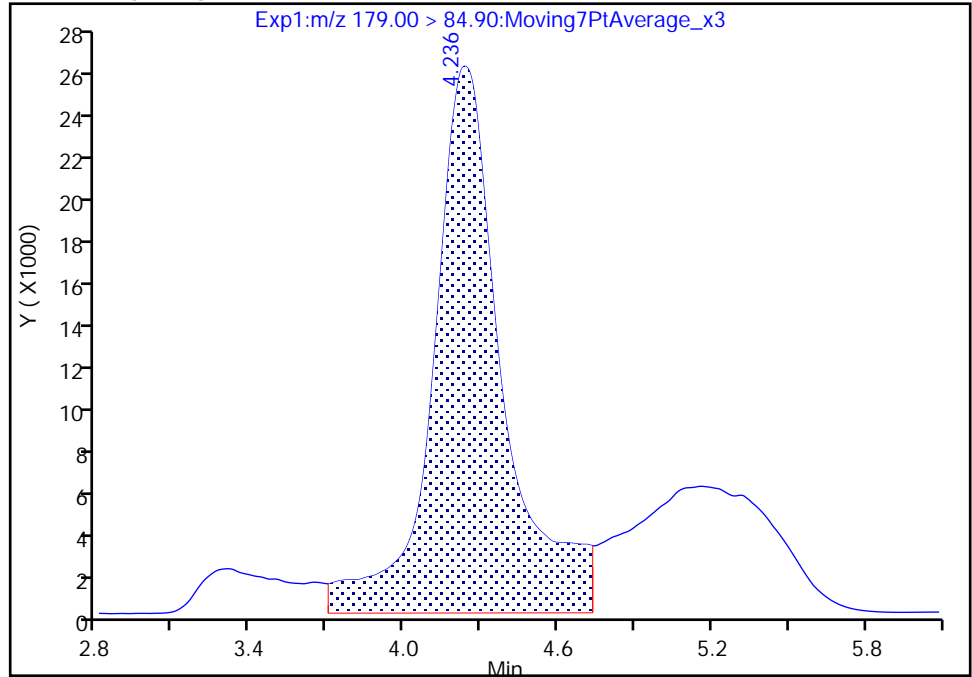
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Injection Date: 13-Mar-2021 05:56:01 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

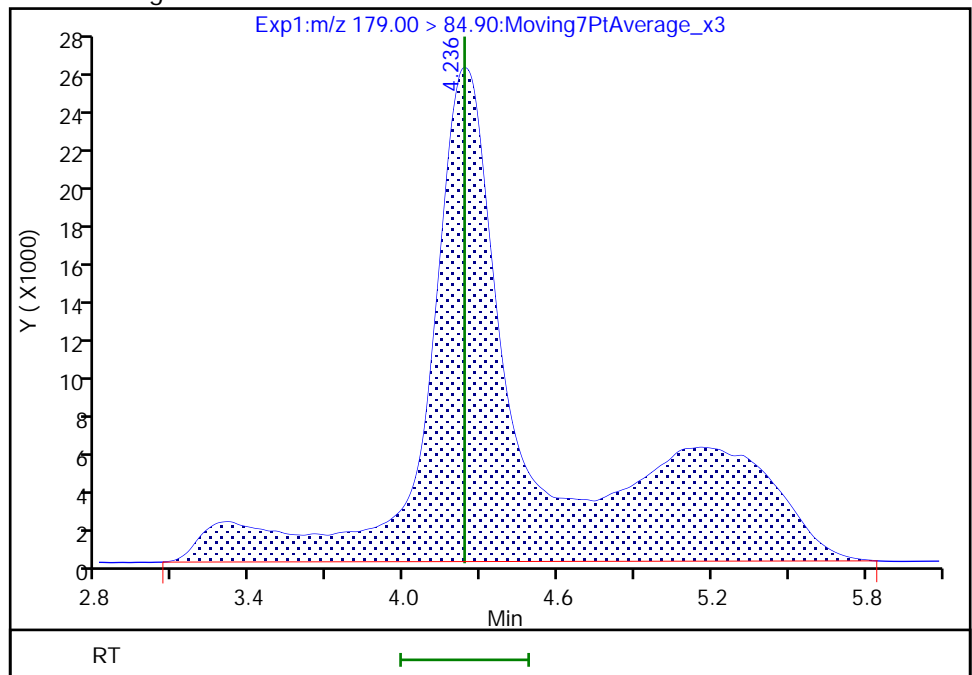
RT: 4.24  
Area: 483116  
Amount: 0.046718  
Amount Units: ng/ml

Processing Integration Results



RT: 4.24  
Area: 767465  
Amount: 0.074215  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 09:41:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 387 of 428

Eurofins TestAmerica, Sacramento

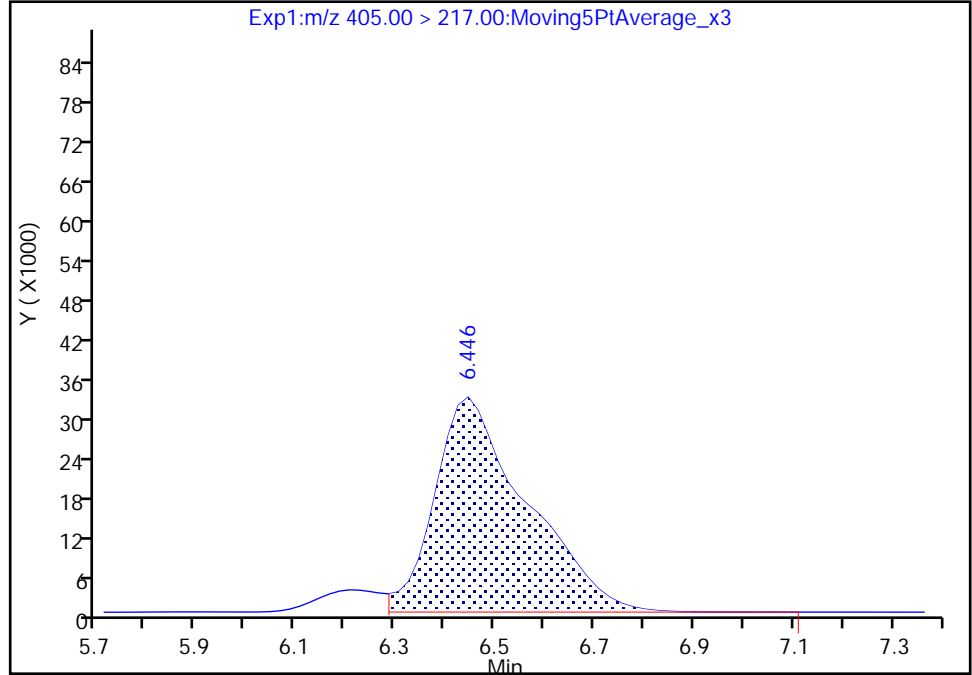
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Injection Date: 13-Mar-2021 05:56:01 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 2 Worklist Smp#: 1  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm ID) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

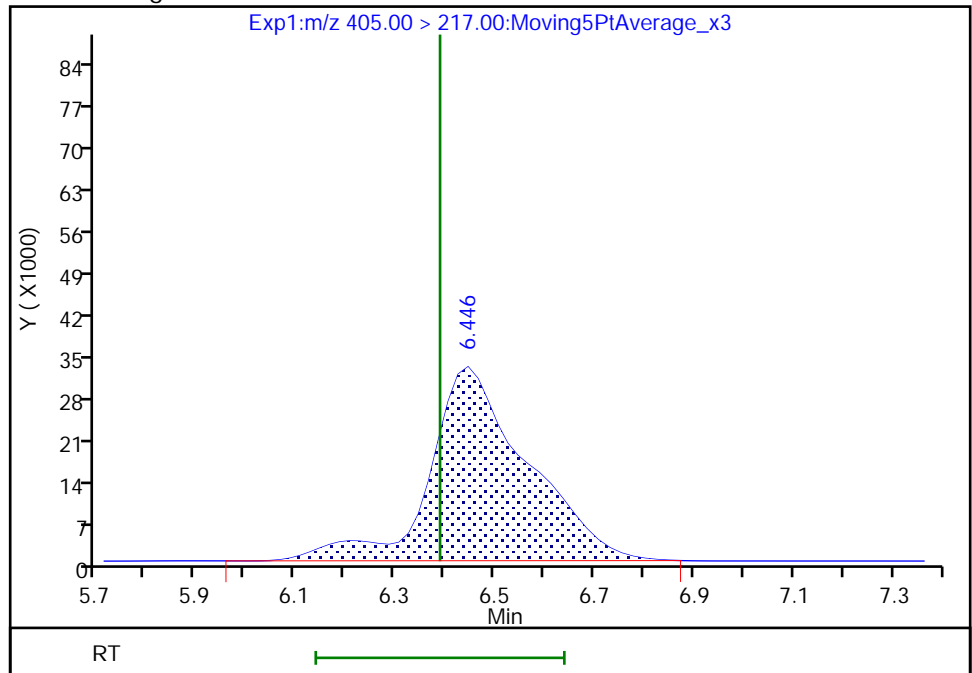
RT: 6.45  
Area: 417347  
Amount: 0.062953  
Amount Units: ng/ml

Processing Integration Results



RT: 6.45  
Area: 445272  
Amount: 0.067165  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 09:42:03  
Audit Action: Manually Integrated

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 320-469973/11 Calibration Date: 03/13/2021 08:52  
 Instrument ID: A12 Calib Start Date: 03/11/2021 12:14  
 GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 03/11/2021 16:03  
 Lab File ID: 2021.03.12\_A12\_TB3\_C\_012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PFMOAA	Ave	10341163	10487173		76.1	75.0	1.4	30.0
R-EVE	Ave	6629533	6141667		69.5	75.0	-7.4	50.0
R-PSDA	Ave	3285358	2695867		61.5	75.0	-17.9	50.0
Hydrolyzed PSDA	Ave	12801417	11042453		64.7	75.0	-13.7	50.0
PMPA	Lin2		17426653		66.7	75.0	-11.1	30.0
NVHOS	Ave	7306624	6016533		61.8	75.0	-17.7	30.0
PFO2HxA	Ave	15425990	13449360		65.4	75.0	-12.8	30.0
PEPA	Ave	6664120	4986760		56.1	75.0	-25.2	30.0
PES	Ave	24200272	18722720		58.0	75.0	-22.6	30.0
PFECA B	Ave	11324142	9187747		60.9	75.0	-18.9	30.0
PFO3OA	Ave	4860185	3438933		53.1	75.0	-29.2	30.0
Perfluoro(2-propoxypropanoic ) acid	AveID	1.103	1.040		70.7	75.0	-5.7	40.0
R-PSDCA	Ave	54111617	49081320		68.0	75.0	-9.3	30.0
Hydro-EVE Acid	Ave	76085192	68795627		67.8	75.0	-9.6	30.0
Hydro-PS Acid	Ave	31357635	25487133		61.0	75.0	-18.7	30.0
Perfluoroheptanoic acid	L2ID		1.143		72.5	75.0	-3.4	40.0
PFECA G	Ave	5915402	5487013		69.6	75.0	-7.2	30.0
PFO4DA	Ave	6551414	5309480		60.8	75.0	-19.0	30.0
EVE Acid	Ave	51038831	49545347		72.8	75.0	-2.9	30.0
PS Acid	Ave	13433412	12295253		68.6	75.0	-8.5	30.0
PFO5DA	Ave	5755285	4495240		58.6	75.0	-21.9	50.0
13C3 HFPO-DA	Ave	7781896	6439692		207	250	-17.2	50.0
13C4 PFHpA	Ave	24472087	25173408		257	250	2.9	50.0

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfms\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_012.d  
 Lims ID: CCV L6.5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 13-Mar-2021 08:52:11 ALS Bottle#: 12 Worklist Smp#: 11  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L6.5 (40)  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Sublist: chrom-PFAS\_Chem\_TB3+\*sub3  
 Method: \\chromfms\Sacramento\ChromData\A12\20210313-114967.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Mar-2021 11:17:28 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICAL File: \\chromfms\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1648

First Level Reviewer: yuj Date: 13-Mar-2021 11:17:28

Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	4.133	4.235	-0.102		786538	0.0761		101	77.5	M
2 R-EVE										
405.00 > 217.00	6.427	6.390	0.037		460625	0.0695		92.6	6572	
3 R-PSDA										
440.90 > 241.00	6.466	6.450	0.016		202190	0.0615		82.1	2132	
4 Hydrolyzed PSDA										
439.00 > 343.00	6.546	6.529	0.017		828184	0.0647		86.3	17234	
23 PMPA										
229.00 > 185.00	6.779	6.782	-0.003		1306999	0.0667		88.9	1481	
5 NVHOS										
297.00 > 135.00	7.158	7.138	0.020		451240	0.0618		82.3	9424	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		1008702	0.0654		87.2	9436	
22 PEPA										
278.90 > 234.90	8.330	8.299	0.031		374007	0.0561		74.8	1725	
7 PES										
314.90 > 135.00	8.588	8.556	0.032		1404204	0.0580		77.4	35402	
8 PFECA B										
295.00 > 201.00	8.827	8.800	0.027		689081	0.0609		81.1	18315	
9 PFO3OA										
310.90 > 85.00	9.074	9.048	0.026		257920	0.0531		70.8	7249	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.187	9.133	0.054		1609923	0.2069		82.8	34271	
11 HPFO-DA										
285.00 > 169.00	9.187	9.133	0.054	1.000	502354	0.0707		94.3	10767	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
12 R-PSDCA										
397.00 > 217.00	9.523	9.493	0.029		3681099	0.0680		90.7	58131	
13 Hydro-EVE Acid										
427.00 > 282.90	9.587	9.525	0.062		5159672	0.0678		90.4	45649	
D 14 13C4 PFHpA										
367.00 > 322.00	9.587	9.558	0.029		6293352	0.2572		103	85031	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.587	9.558	0.029	1.000	2157984	0.0725	Target=0.00	96.6	10327	
363.00 > 169.00	9.587	9.558	0.029	1.000	600098		3.60(0.00-0.00)		9733	
15 Hydro-PS Acid										
463.00 > 262.90	9.587	9.558	0.029		1911535	0.0610		81.3	43006	
17 PFECA G										
378.90 > 184.90	9.702	9.676	0.026		411526	0.0696		92.8	11761	
18 PFO4DA										
376.90 > 85.00	9.846	9.820	0.026		398211	0.0608		81.0	8585	
20 EVE Acid										
407.00 > 262.90	9.932	9.877	0.055		3715901	0.0728		97.1	63955	
19 PS Acid										
443.00 > 146.90	9.932	9.877	0.055		922144	0.0686		91.5	26308	
21 TAF										
442.90 > 85.00	10.425	10.374	0.051		337143	0.0586		78.1	1688	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

LCTB3\_LLCCV\_00041

Amount Added: 1.00

Units: mL

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_012.d

Injection Date: 13-Mar-2021 08:52:11

Instrument ID: A12

Lims ID: CCV L6.5

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 12

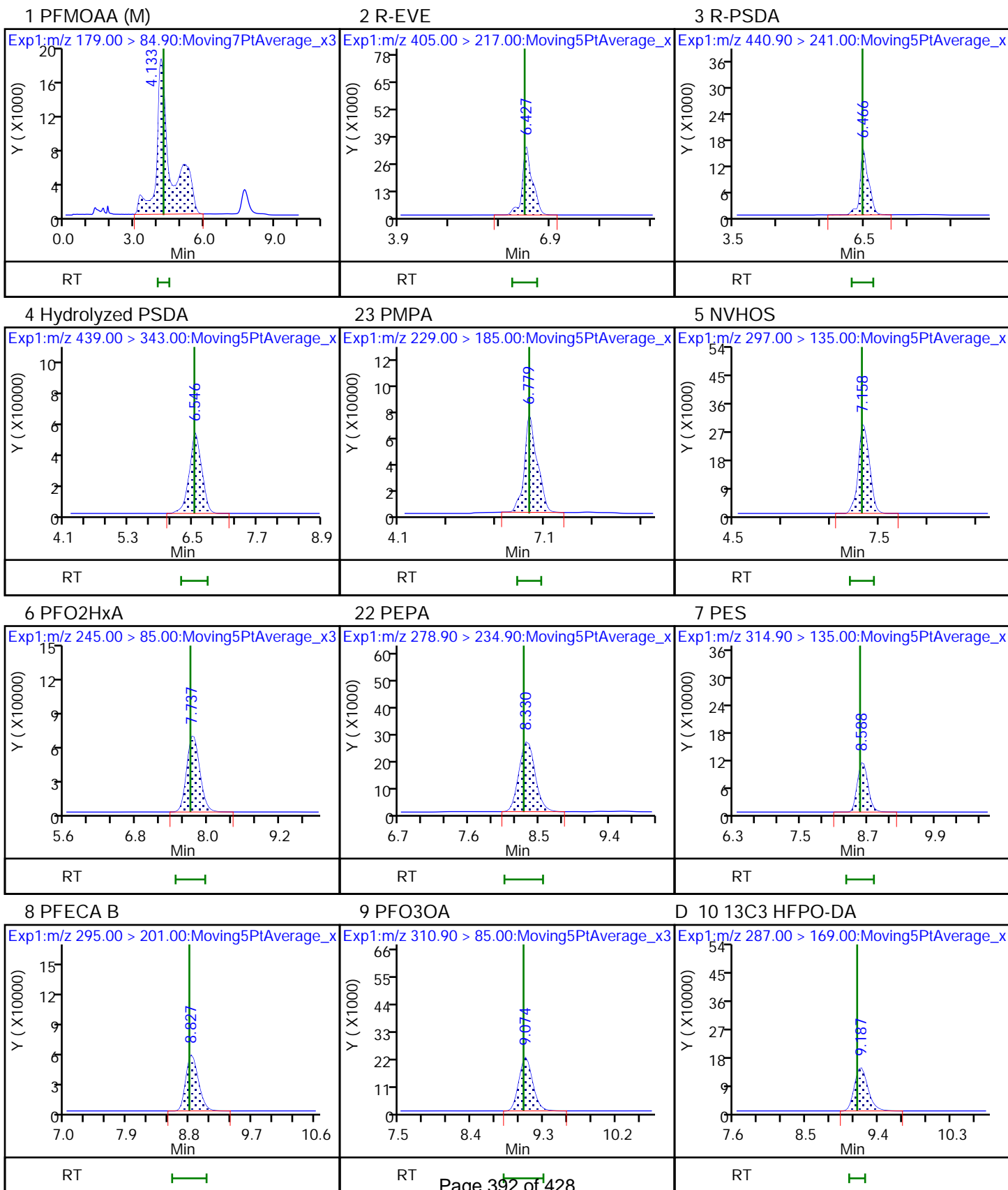
Worklist Smp#: 11

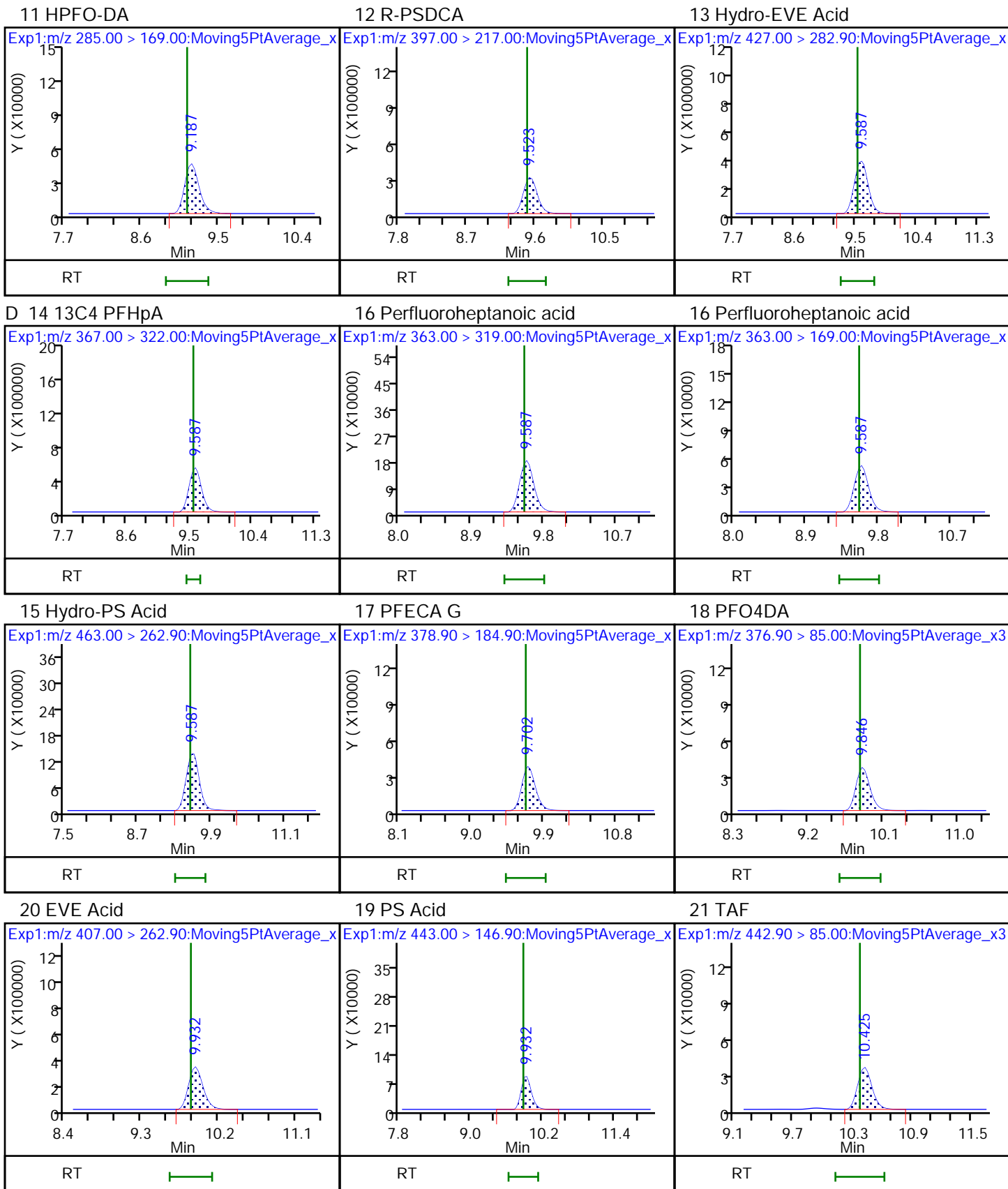
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL









Eurofins TestAmerica, Sacramento

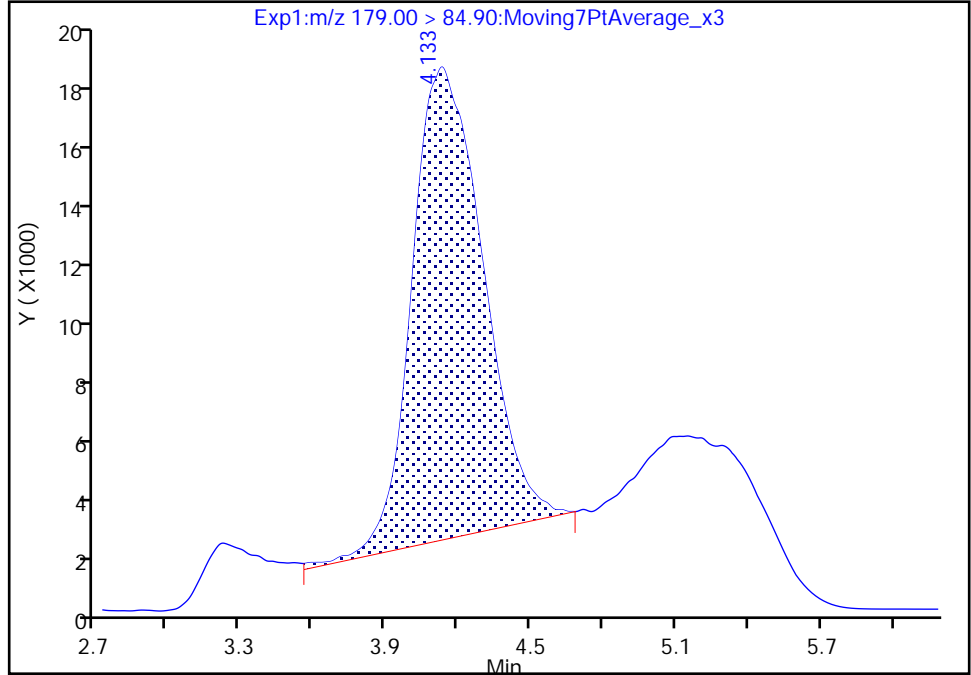
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Injection Date: 13-Mar-2021 08:52:11 Instrument ID: A12  
Lims ID: CCV L6.5  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 12 Worklist Smp#: 11  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

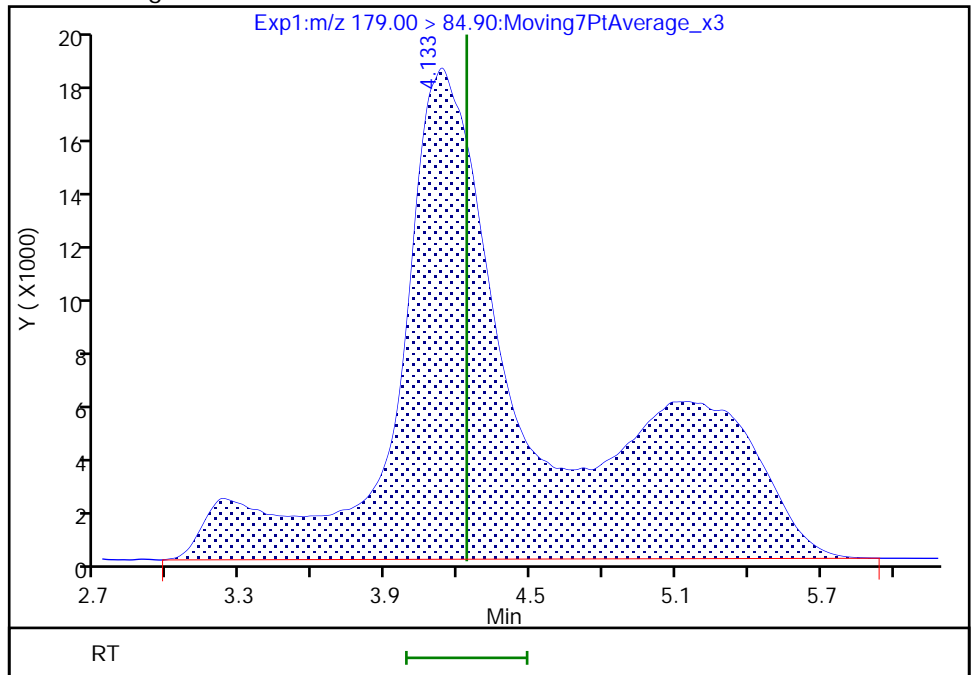
RT: 4.13  
Area: 329076  
Amount: 0.031822  
Amount Units: ng/ml

Processing Integration Results



RT: 4.13  
Area: 786538  
Amount: 0.076059  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:17:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration  
Page 395 of 428

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 320-467237/1-A  
 Matrix: Water Lab File ID: 2021.03.09\_TB3\_A12\_AB\_031.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 03/10/2021 00:12  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 468770 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	<0.0020		0.0020	
13252-13-6	HFPO-DA	<0.0020		0.0020	
773804-62-9	Hydro-EVE Acid	<0.0020		0.0020	
2416366-19-1	Hydrolyzed PSDA	<0.0020		0.0020	
749836-20-2	Hydro-PS Acid	<0.0020		0.0020	
1132933-86-8	NVHOS	<0.0020		0.0020	
267239-61-2	PEPA	<0.020		0.020	
113507-82-7	PES	<0.0020		0.0020	
151772-58-6	PFECA B	<0.0020		0.0020	
801212-59-9	PFECA G	<0.0020		0.0020	
674-13-5	PFMOAA	<0.0020		0.0020	
39492-88-1	PFO2HxA	<0.0020		0.0020	
39492-89-2	PFO3OA	<0.0020		0.0020	
39492-90-5	PFO4DA	<0.0020		0.0020	
39492-91-6	PFO5DA	<0.0020		0.0020	
13140-29-9	PMPA	<0.010		0.010	
29311-67-9	PS Acid	<0.0020		0.0020	
2416366-22-6	R-EVE	<0.0020		0.0020	
2416366-18-0	R-PSDA	<0.0020		0.0020	
2416366-21-5	R-PSDCA	<0.0020		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	96		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\2021.03.09\_TB3\_A12\_AB\_031.d  
 Lims ID: MB 320-467237/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 10-Mar-2021 00:12:37 ALS Bottle#: 31 Worklist Smp#: 3  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: mb 320-467237/1-a DUE 3/22 (467237)  
 Misc. Info.: Plate: 1 Rack: 5  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210309-114713.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 10-Mar-2021 09:48:25 Calib Date: 08-Mar-2021 18:35:31  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210308-114652.b\2021.03.08\_A12\_TB3\_ICAL\_016.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1671

First Level Reviewer: kwong Date: 10-Mar-2021 09:49:30  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
23 PMPA										M
229.00 > 185.00	6.945	6.686	0.259		40642	0.002363			15.8	M
D 10 13C3 HFPO-DA										a
287.00 > 169.00	9.130	9.133	-0.003		1514347	0.2394		95.8	29616	a
D 14 13C4 PFHpA										a
367.00 > 322.00	9.555	9.558	-0.003		5729538	0.2112		84.5	71487	a
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.555	9.558	-0.003	1.000	22149	0.000880	Target=0.00		123	
363.00 > 169.00	9.555	9.558	-0.003	1.000	6192		3.58(0.00-0.00)		121	

**QC Flag Legend**

Processing Flags

Review Flags

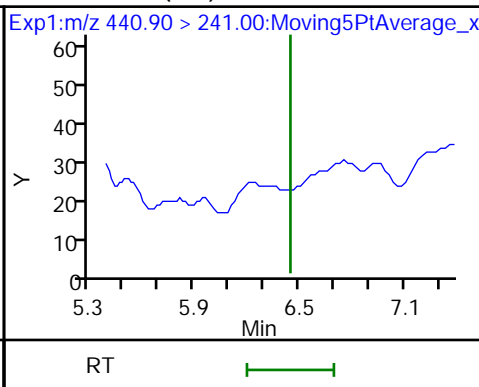
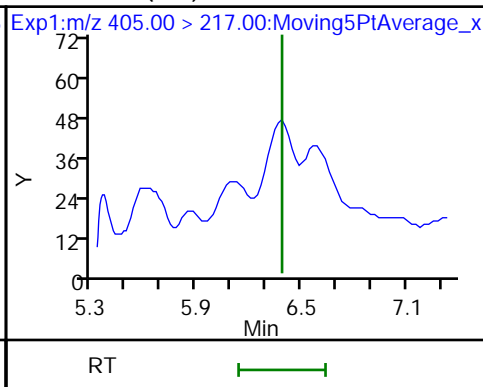
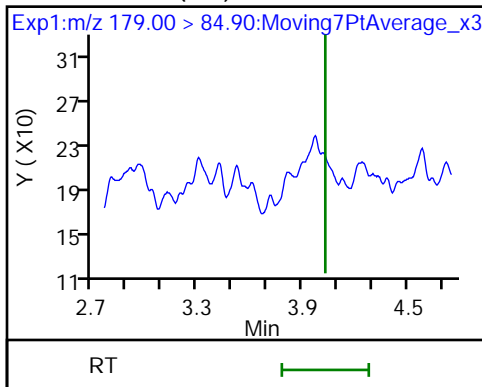
M - Manually Integrated

a - User Assigned ID

1 PFM0AA (ND)

2 R-EVE (ND)

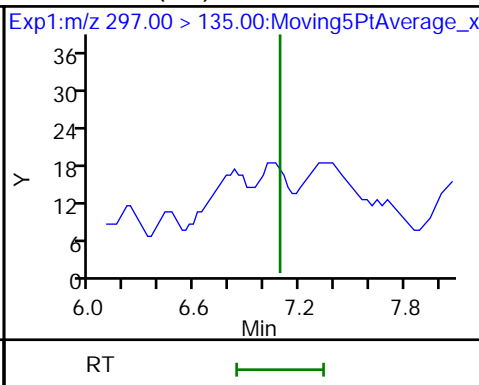
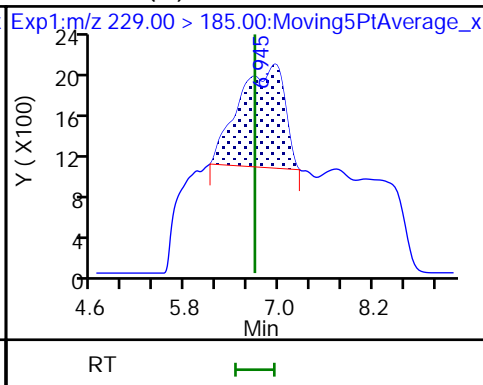
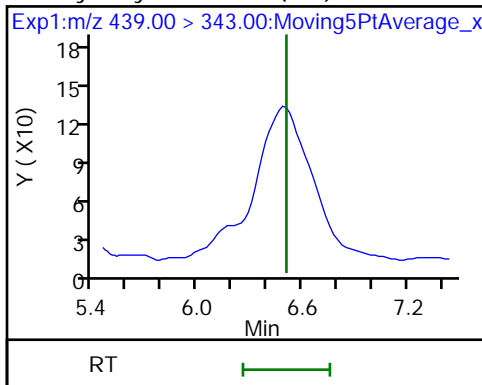
3 R-PSDA (ND)



4 Hydrolyzed PSDA (ND)

23 PMPA (M)

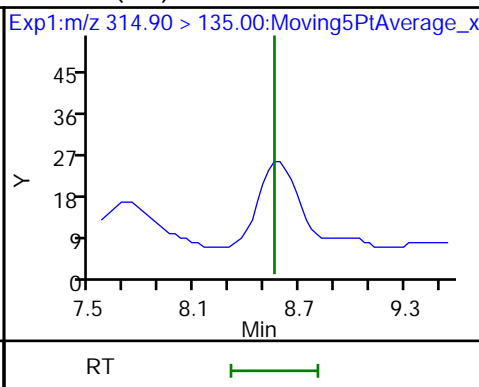
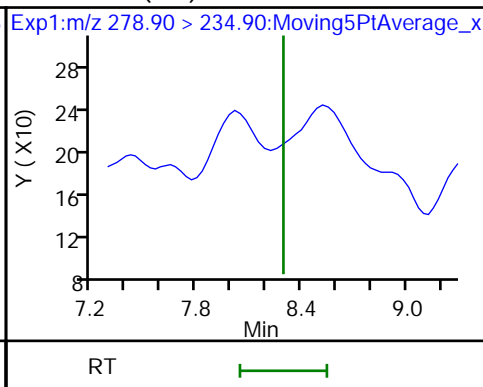
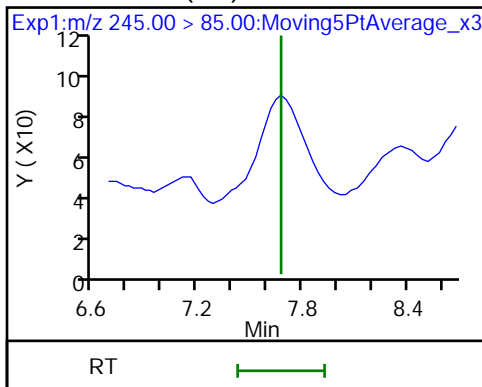
5 NVHOS (ND)



6 PFO2HxA (ND)

22 PEPA (ND)

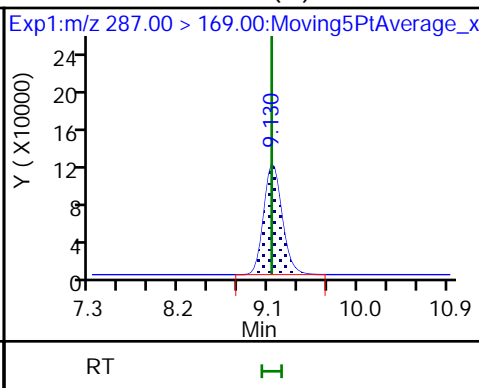
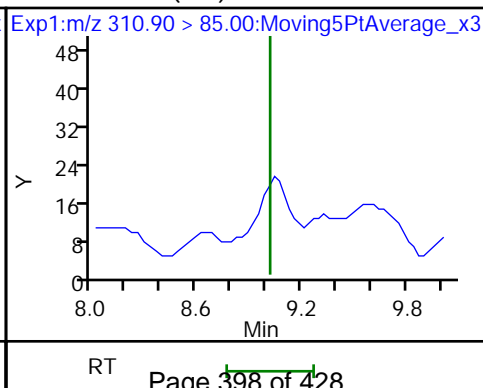
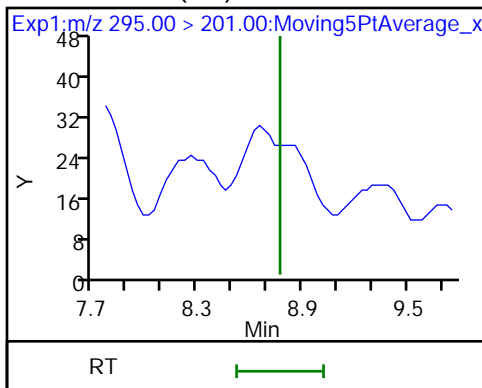
7 PES (ND)

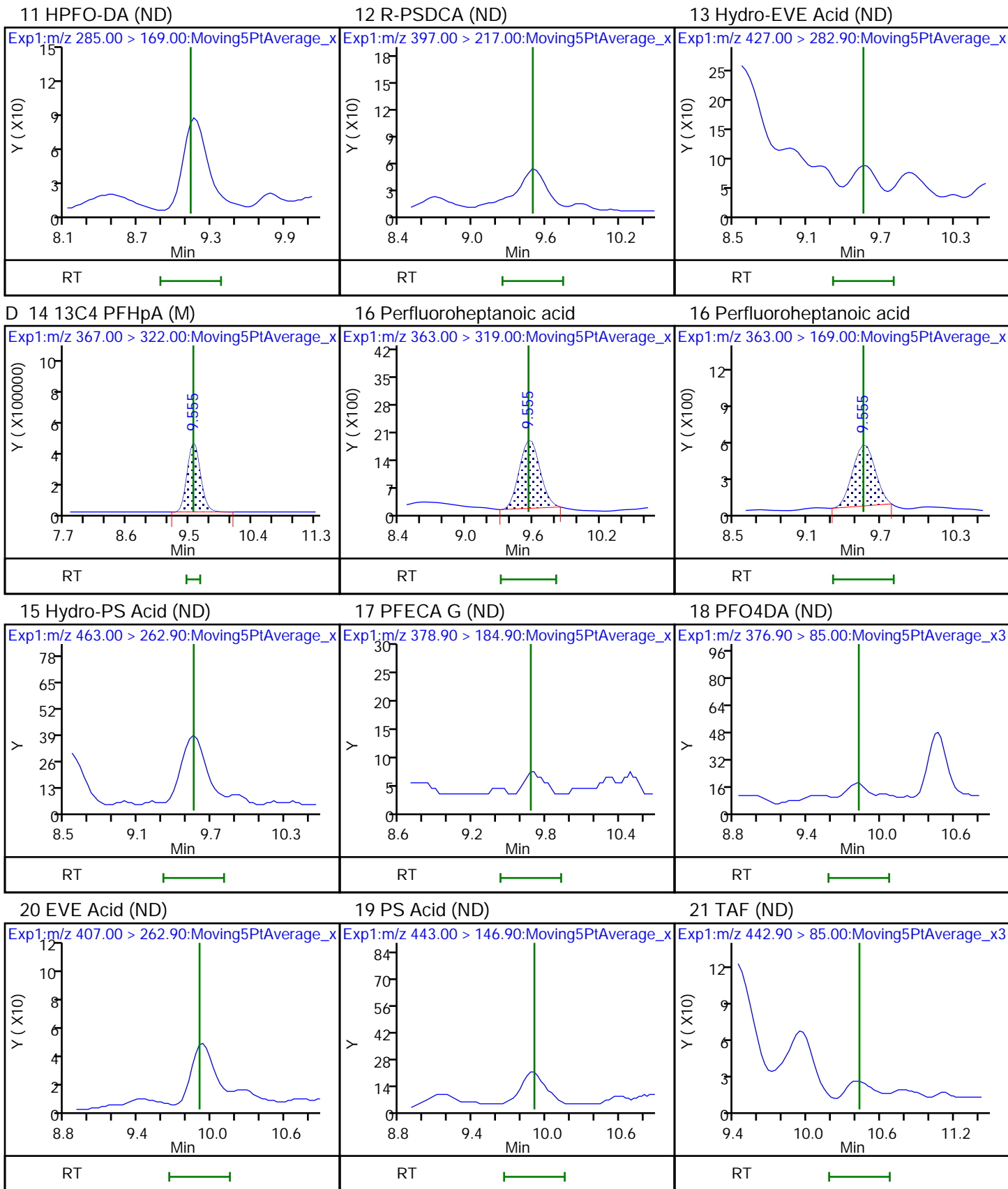


8 PFECA B (ND)

9 PFO3OA (ND)

D 10 13C3 HFPO-DA (M)







Eurofins TestAmerica, Sacramento

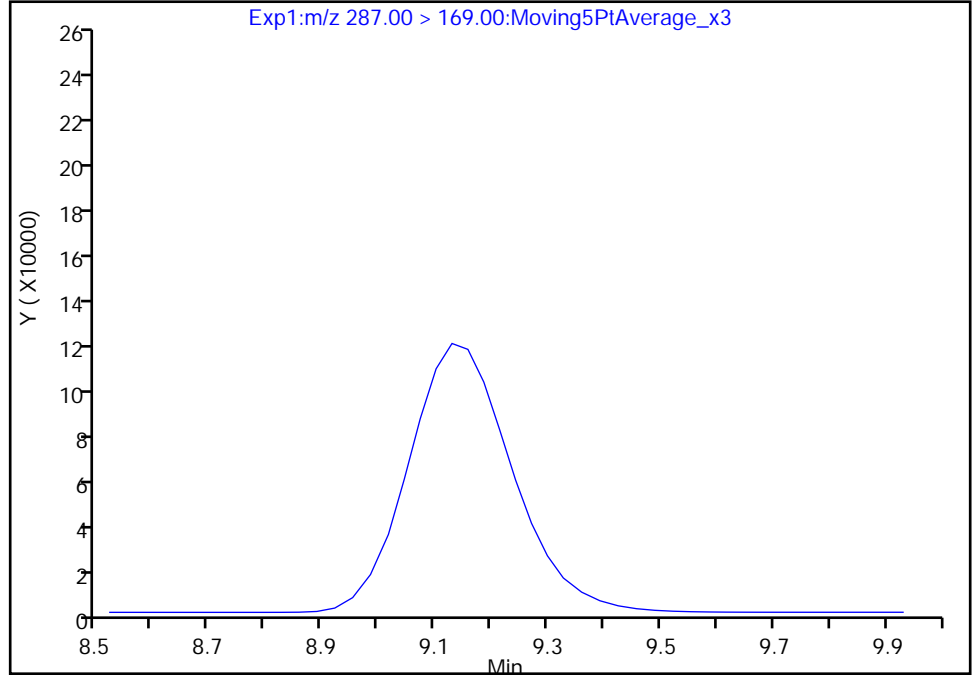
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Injection Date: 10-Mar-2021 00:12:37 Instrument ID: A12  
Lims ID: MB 320-467237/1-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 31 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

D 10 13C3 HFPO-DA, CAS: STL02255

Signal: 1

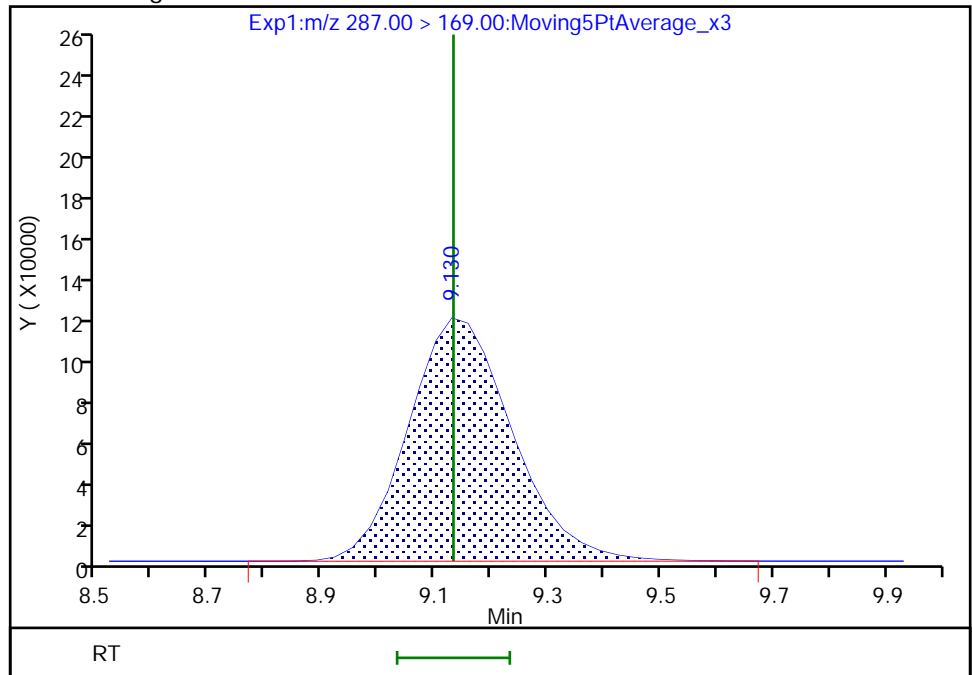
Not Detected  
Expected RT: 9.13

Processing Integration Results



Manual Integration Results

RT: 9.13  
Area: 1514347  
Amount: 0.239431  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 10-Mar-2021 15:43:52

Audit Action: Assigned Compound ID

Audit Reason: Peak assignment corrected

Eurofins TestAmerica, Sacramento

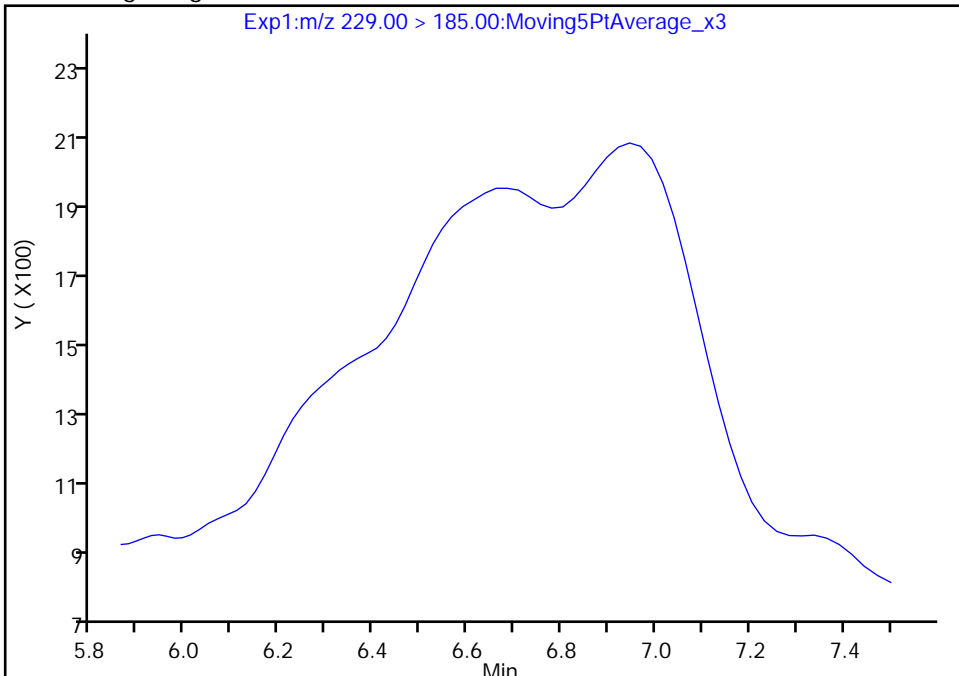
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Injection Date: 10-Mar-2021 00:12:37 Instrument ID: A12  
Lims ID: MB 320-467237/1-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 31 Worklist Smp#: 3  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

23 PMPA, CAS: 13140-29-9

Signal: 1

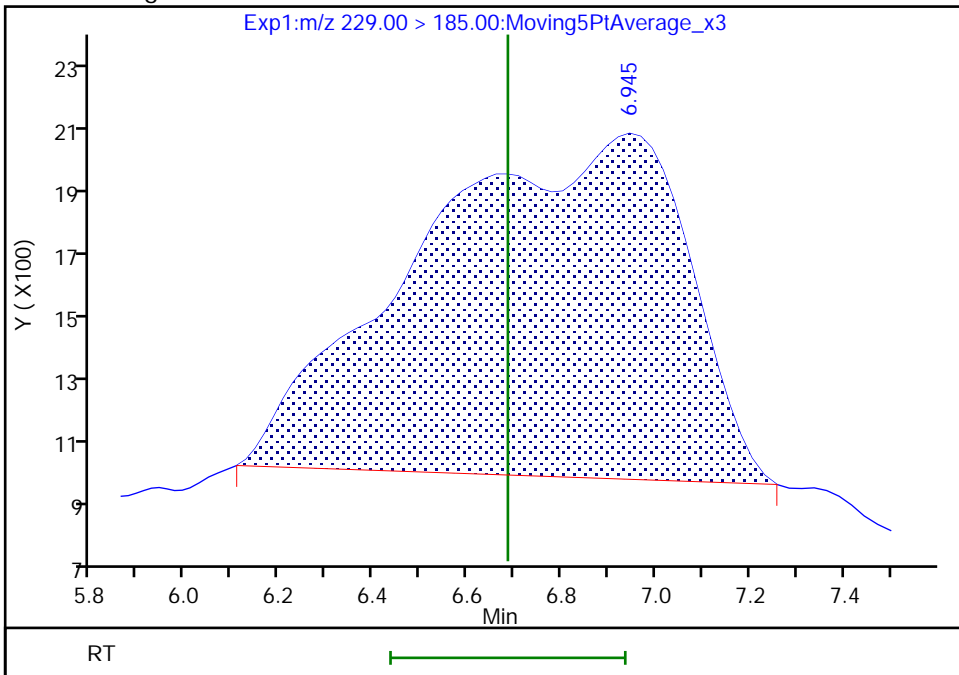
Not Detected  
Expected RT: 6.69

Processing Integration Results



Manual Integration Results

RT: 6.94  
Area: 40642  
Amount: 0.002363  
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 10-Mar-2021 15:44:14  
Audit Action: Manually Integrated

Audit Reason: Baseline  
Page 402 of 428



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 320-467237/2-A  
 Matrix: Water Lab File ID: 2021.03.12\_A12\_TB3\_C\_008.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 03/13/2021 07:41  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 469973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.179		0.0020	
13252-13-6	HFPO-DA	0.212		0.0020	
773804-62-9	Hydro-EVE Acid	0.150		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.186		0.0020	
749836-20-2	Hydro-PS Acid	0.177		0.0020	
1132933-86-8	NVHOS	0.183		0.0020	
267239-61-2	PEPA	0.176		0.020	
113507-82-7	PES	0.191		0.0020	
151772-58-6	PFECA B	0.186		0.0020	
801212-59-9	PFECA G	0.163		0.0020	
674-13-5	PFMOAA	0.227		0.0020	
39492-88-1	PFO2HxA	0.208		0.0020	
39492-89-2	PFO3OA	0.210		0.0020	
39492-90-5	PFO4DA	0.136		0.0020	
39492-91-6	PFO5DA	0.156		0.0020	
13140-29-9	PMPA	0.202		0.010	
29311-67-9	PS Acid	0.178		0.0020	
2416366-22-6	R-EVE	0.207		0.0020	
2416366-18-0	R-PSDA	0.170		0.0020	
2416366-21-5	R-PSDCA	0.139		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	81		25-150

Eurofins TestAmerica, Sacramento  
 Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_008.d  
 Lims ID: LCS 320-467237/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 13-Mar-2021 07:41:51 ALS Bottle#: 8 Worklist Smp#: 8  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcs 320-467237/2-a AR  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Mar-2021 11:05:52 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1648

First Level Reviewer: yuj Date: 13-Mar-2021 11:05:52  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.888	4.235	-0.347		1172189	0.1134		113	55.2	M
2 R-EVE										M
405.00 > 217.00	6.367	6.390	-0.023		686310	0.1035		104	7394	M
3 R-PSDA										M
440.90 > 241.00	6.407	6.450	-0.043		279012	0.0849		84.9	2299	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.486	6.529	-0.043		1192875	0.0932		93.2	20989	
23 PMPA										
229.00 > 185.00	6.755	6.782	-0.027		1961123	0.1009		101	2194	
5 NVHOS										
297.00 > 135.00	7.111	7.138	-0.027		667098	0.0913		91.3	11646	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		1606619	0.1042		104	15802	
22 PEPA										
278.90 > 234.90	8.330	8.299	0.031		587124	0.0881		88.1	3526	
7 PES										
314.90 > 135.00	8.588	8.556	0.032		2307457	0.0953		95.3	56968	
8 PFECA B										
295.00 > 201.00	8.828	8.800	0.028		1051286	0.0928		92.8	27051	
9 PFO3OA										
310.90 > 85.00	9.047	9.048	-0.001		509792	0.1049		105	13816	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.160	9.133	0.027		1568955	0.2016		80.6	33275	
11 HPFO-DA										
285.00 > 169.00	9.160	9.133	0.027	1.000	733648	0.1059		106	15402	
12 R-PSDCA										
397.00 > 217.00	9.524	9.493	0.031		276462	0.0696		69.6	49255	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.589	9.525	0.064		5717109	0.0751		75.1	50158	
D 14 13C4 PFHpA										
367.00 > 322.00	9.589	9.558	0.031		4136831	0.1690		67.6	66038	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.589	9.558	0.031	1.000	2322549	0.1189	Target=0.00	119	15549	
363.00 > 169.00	9.589	9.558	0.031	1.000	611772		3.80(0.00-0.00)		9781	
15 Hydro-PS Acid										
463.00 > 262.90	9.589	9.558	0.031		2768421	0.0883		88.3	47088	
17 PFECA G										
378.90 > 184.90	9.703	9.676	0.027		482440	0.0816		81.6	13709	
18 PFO4DA										
376.90 > 85.00	9.847	9.820	0.027		443963	0.0678		67.8	9523	
20 EVE Acid										
407.00 > 262.90	9.933	9.877	0.056		4579327	0.0897		89.7	65097	
19 PS Acid										
443.00 > 146.90	9.904	9.877	0.027		1195265	0.0890		89.0	25669	
21 TAF										
442.90 > 85.00	10.426	10.374	0.052		447728	0.0778		77.8	1939	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_008.d

Injection Date: 13-Mar-2021 07:41:51

Instrument ID: A12

Lims ID: LCS 320-467237/2-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 8

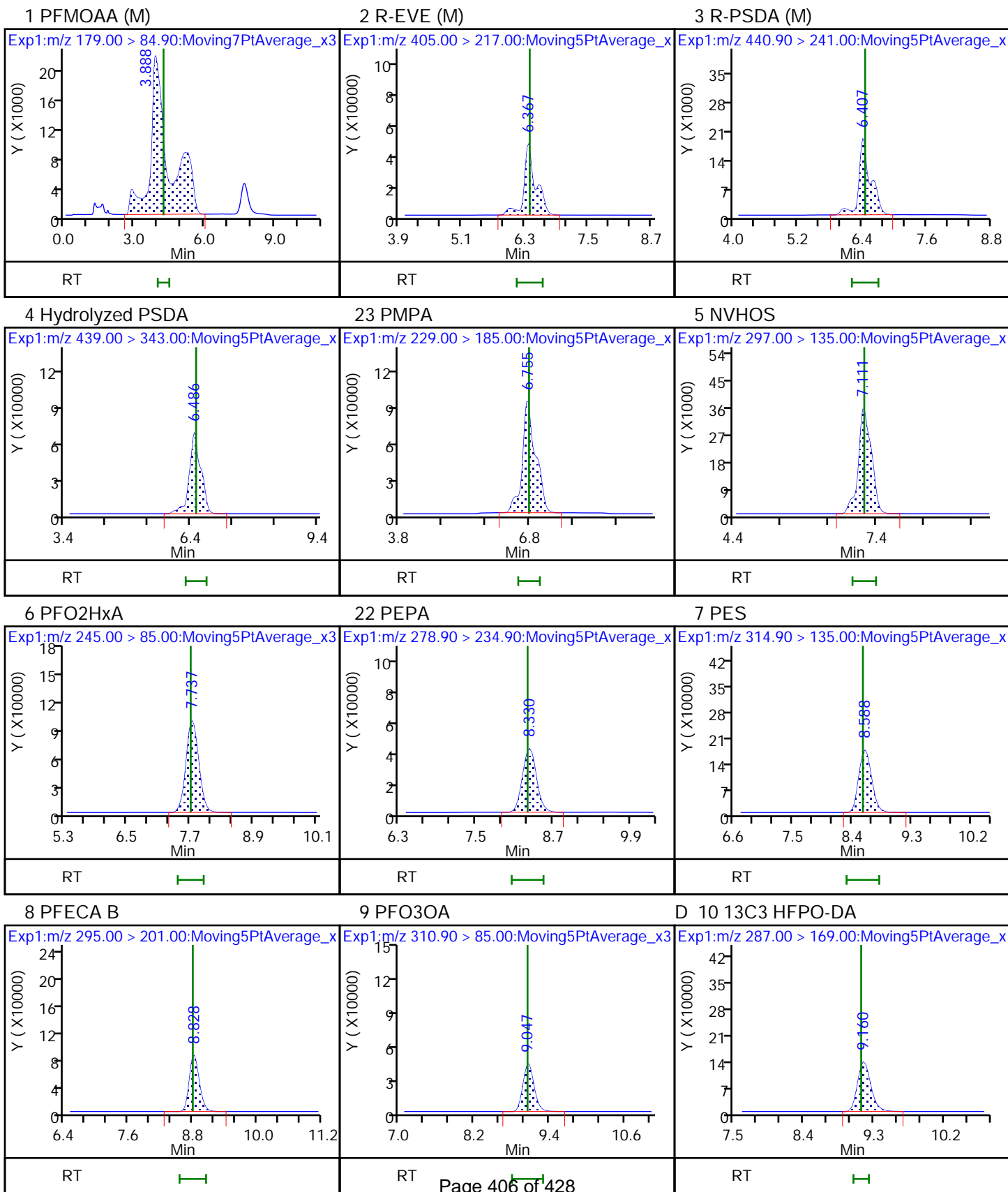
Worklist Smp#: 8

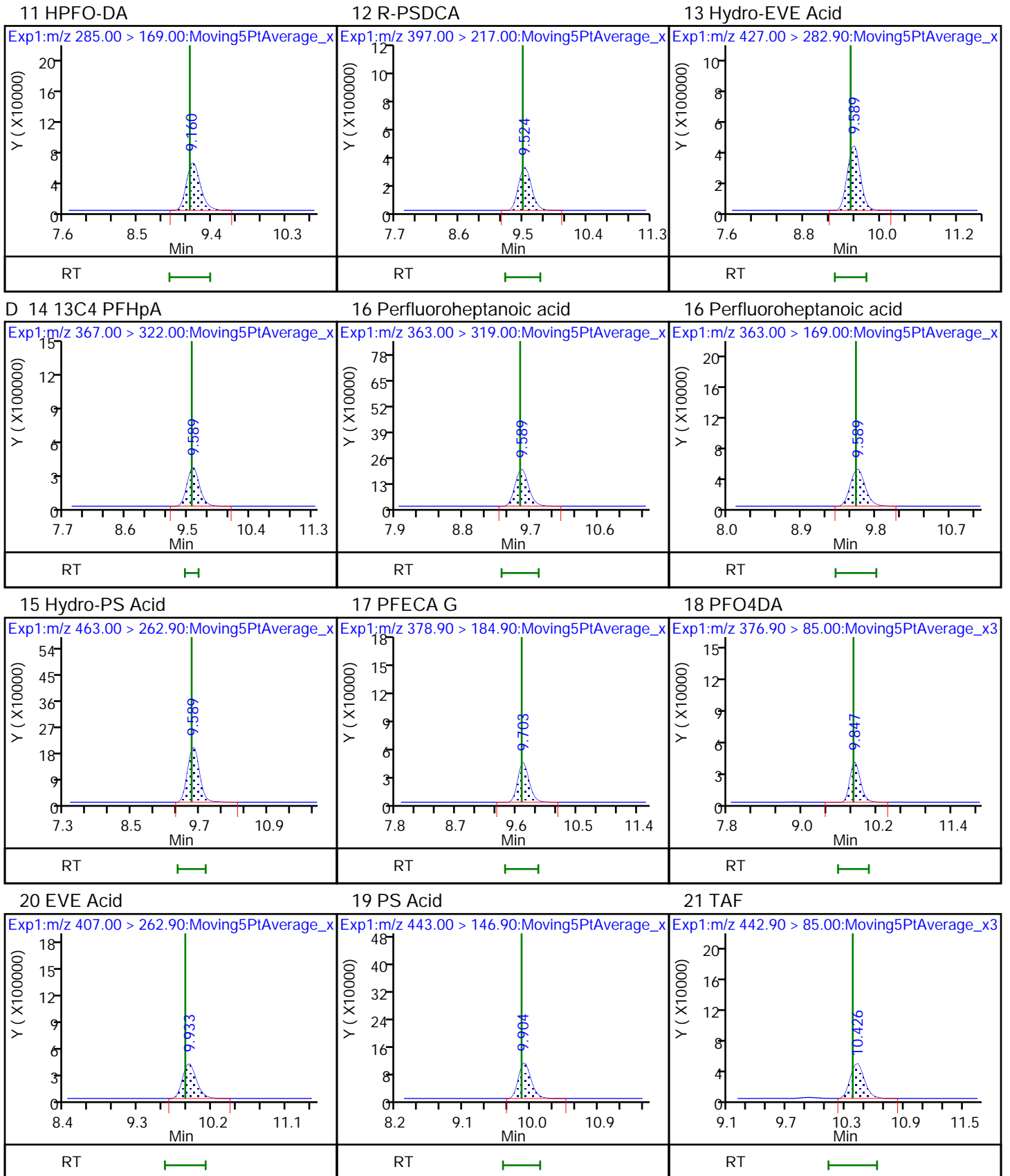
Injection Vol: 500.0 ul

Dil. Factor: 1.0000

Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL







Eurofins TestAmerica, Sacramento

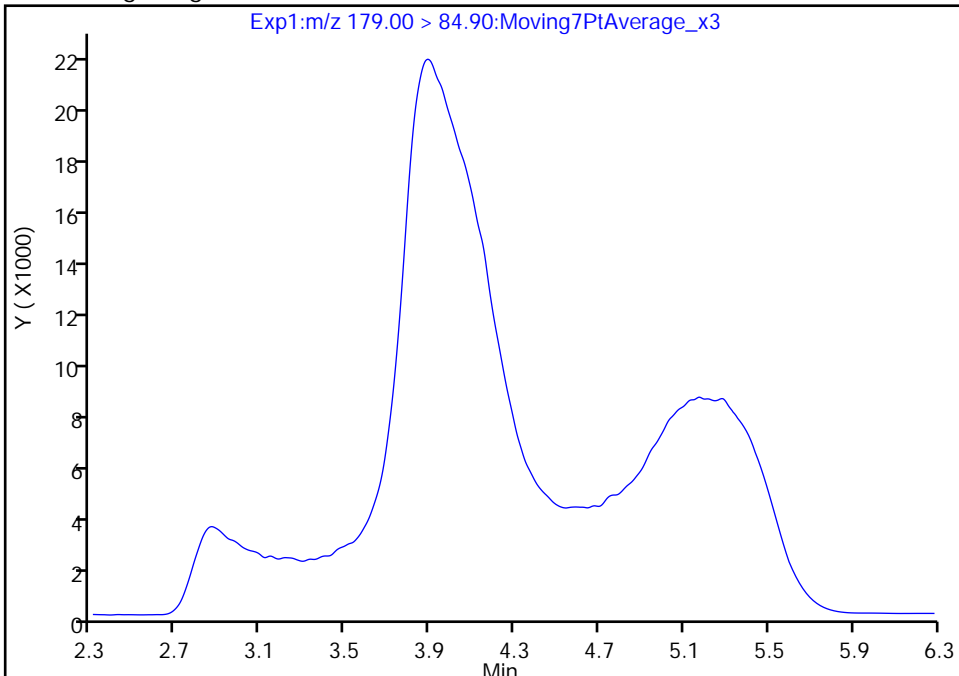
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Injection Date: 13-Mar-2021 07:41:51 Instrument ID: A12  
Lims ID: LCS 320-467237/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

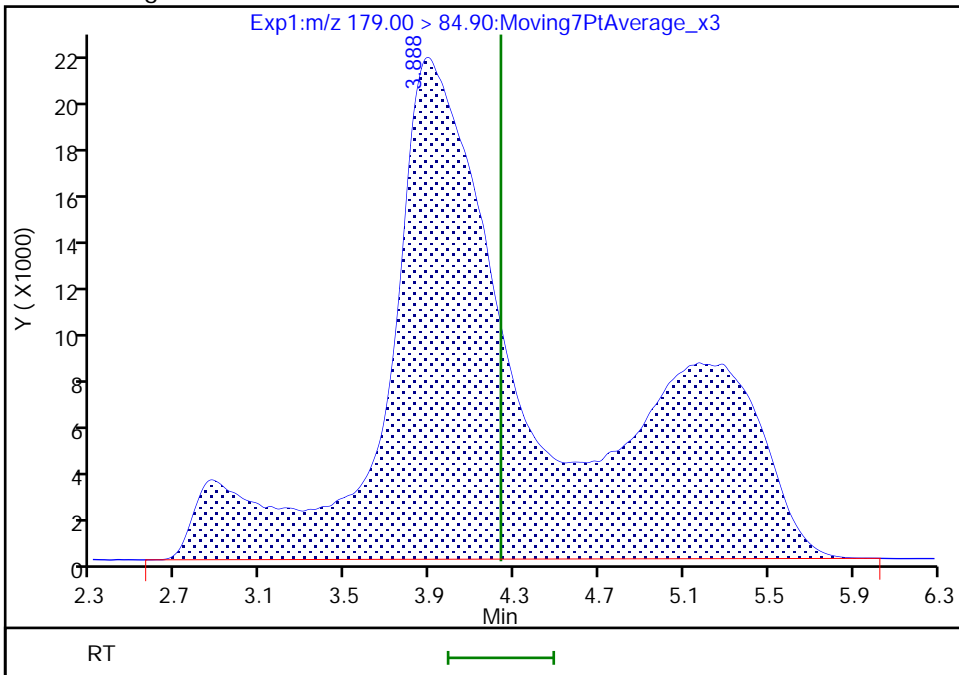
Not Detected  
Expected RT: 4.24

Processing Integration Results



Manual Integration Results

RT: 3.89  
Area: 1172189  
Amount: 0.113352  
Amount Units: ng/ml



Reviewer: yuj, 13-Mar-2021 11:05:34  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

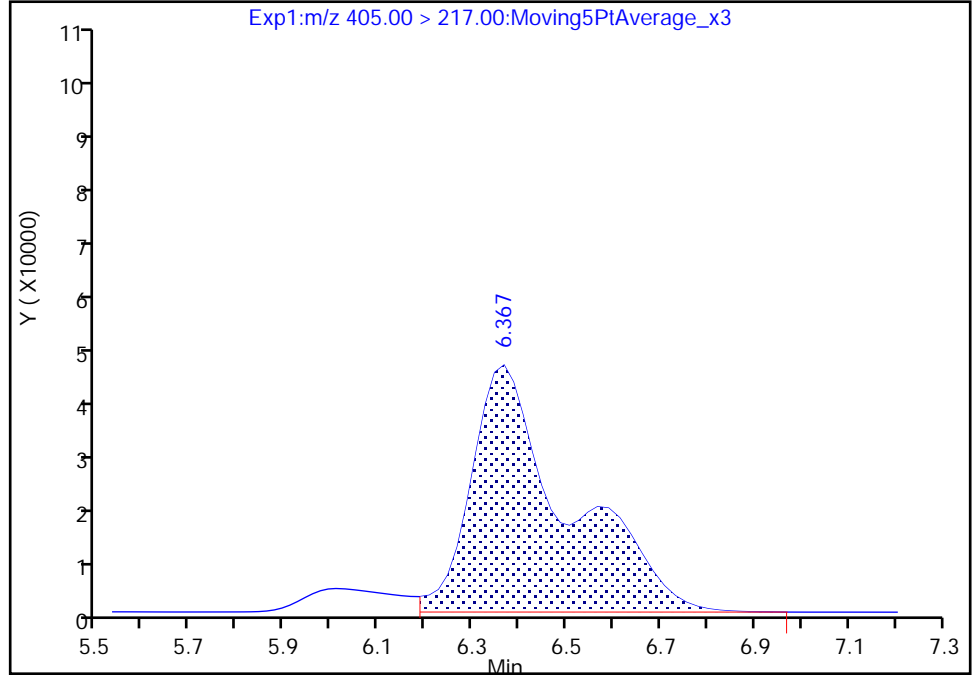
Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_008.d  
Injection Date: 13-Mar-2021 07:41:51 Instrument ID: A12  
Lims ID: LCS 320-467237/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

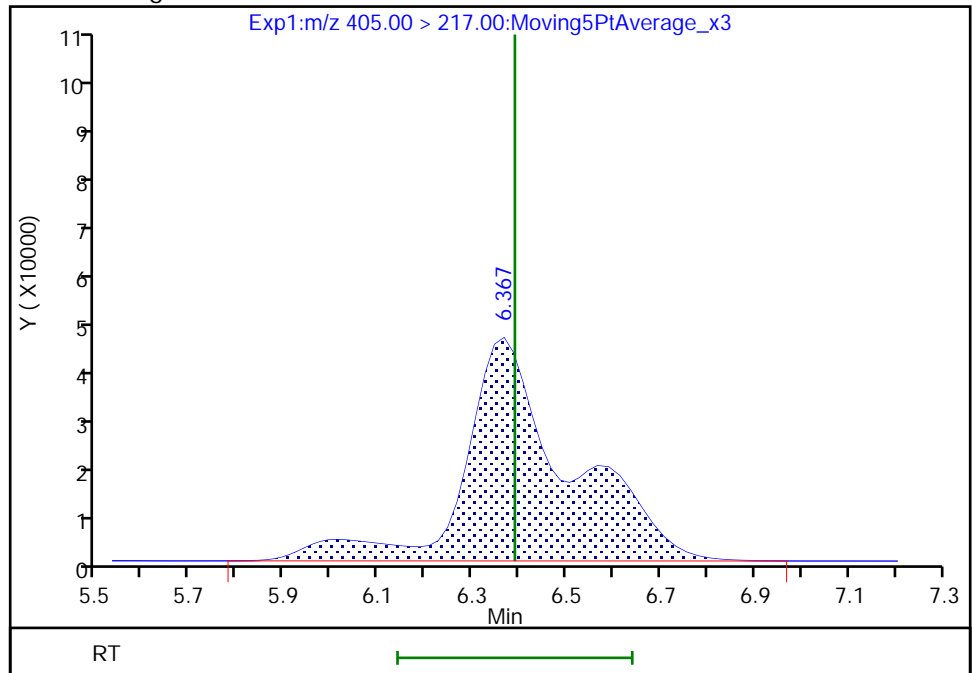
RT: 6.37  
Area: 629272  
Amount: 0.094920  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 686310  
Amount: 0.103523  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:05:39  
Audit Action: Manually Integrated



Eurofins TestAmerica, Sacramento

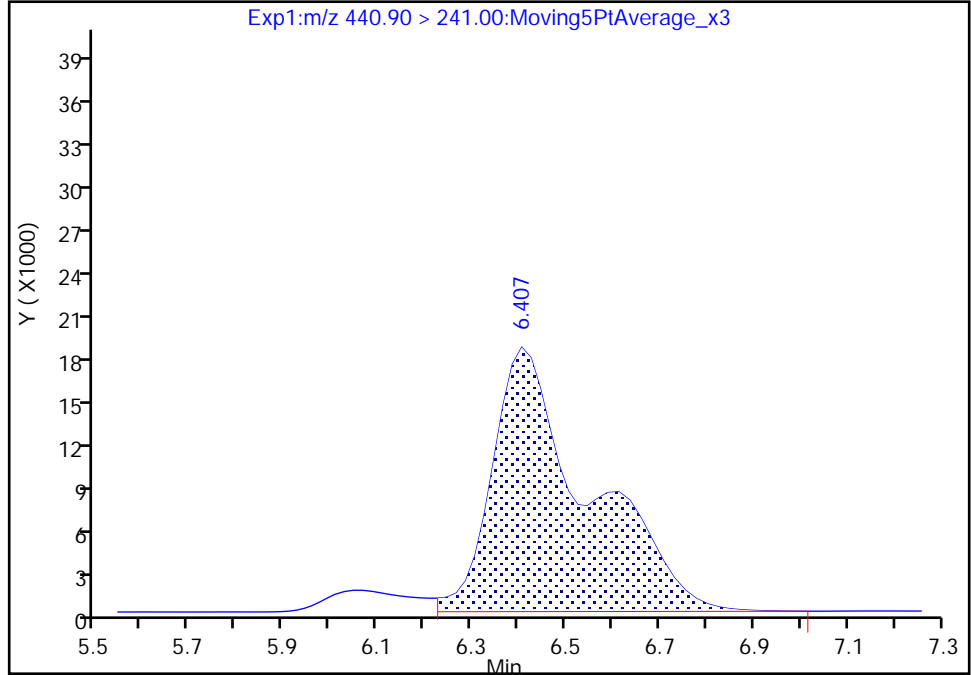
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Injection Date: 13-Mar-2021 07:41:51 Instrument ID: A12  
Lims ID: LCS 320-467237/2-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 8 Worklist Smp#: 8  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

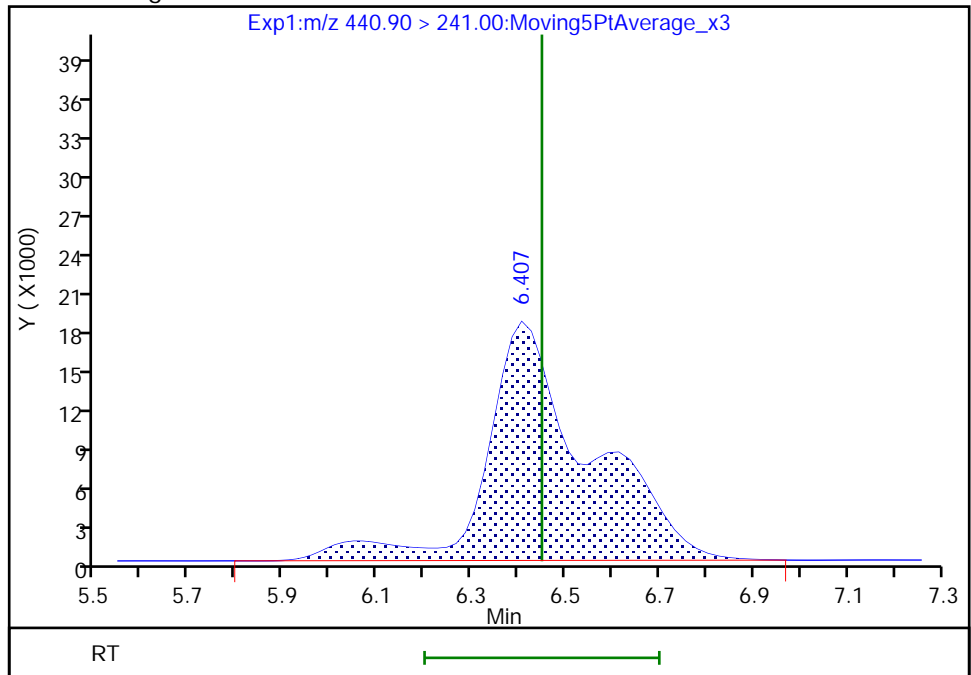
RT: 6.41  
Area: 260449  
Amount: 0.079276  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 279012  
Amount: 0.084926  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:05:41  
Audit Action: Manually Integrated

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCSD 320-467237/3-A  
 Matrix: Water Lab File ID: 2021.03.12\_A12\_TB3\_C\_009.d  
 Analysis Method: Chemours (TB3+) Date Collected: \_\_\_\_\_  
 Extraction Method: PFAS Prep Date Extracted: 03/03/2021 20:42  
 Sample wt/vol: 2.50 (mL) Date Analyzed: 03/13/2021 07:59  
 Con. Extract Vol.: 5.00 (mL) Dilution Factor: 1  
 Injection Volume: 500 (uL) GC Column: GeminiC18 3x100 ID: 3 (mm)  
 % Moisture: \_\_\_\_\_ GPC Cleanup: (Y/N) N  
 Analysis Batch No.: 469973 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	
69087-46-3	EVE Acid	0.161		0.0020	
13252-13-6	HFPO-DA	0.228		0.0020	
773804-62-9	Hydro-EVE Acid	0.148		0.0020	
2416366-19-1	Hydrolyzed PSDA	0.204		0.0020	
749836-20-2	Hydro-PS Acid	0.168		0.0020	
1132933-86-8	NVHOS	0.172		0.0020	
267239-61-2	PEPA	0.158		0.020	
113507-82-7	PES	0.171		0.0020	
151772-58-6	PFECA B	0.178		0.0020	
801212-59-9	PFECA G	0.146		0.0020	
674-13-5	PFMOAA	0.212		0.0020	
39492-88-1	PFO2HxA	0.190		0.0020	
39492-89-2	PFO3OA	0.178		0.0020	
39492-90-5	PFO4DA	0.122		0.0020	
39492-91-6	PFO5DA	0.128		0.0020	
13140-29-9	PMPA	0.186		0.010	
29311-67-9	PS Acid	0.166		0.0020	
2416366-22-6	R-EVE	0.220		0.0020	
2416366-18-0	R-PSDA	0.188		0.0020	
2416366-21-5	R-PSDCA	0.143		0.0020	

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL02255	13C3 HFPO-DA	78		25-150

Eurofins TestAmerica, Sacramento  
Target Compound Quantitation Report

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_009.d  
 Lims ID: LCSD 320-467237/3-A  
 Client ID:  
 Sample Type: LCSD  
 Inject. Date: 13-Mar-2021 07:59:25 ALS Bottle#: 9 Worklist Smp#: 9  
 Injection Vol: 500.0 ul Dil. Factor: 1.0000  
 Sample Info: lcsd 320-467237/3-a AR  
 Misc. Info.: Plate: 1 Rack: 6  
 Operator ID: Sac\_inst\_A12 Instrument ID: A12  
 Method: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\PFAS\_Chem\_TB3+.m  
 Limit Group: LC PFAS\_TB3P - ICAL  
 Last Update: 13-Mar-2021 11:06:22 Calib Date: 11-Mar-2021 16:03:54  
 Integrator: Picker  
 Quant Method: Isotopic Dilution/External Stnd Quant By: Initial Calibration  
 Last ICal File: \\chromfs\Sacramento\ChromData\A12\20210311-114838.b\2021.03.11\_A12\_TB3\_ICAL\_A\_019.d  
 Column 1 : Gemini C18 3um 3 x 100mm ( 3.00 mm) Det: EXP1  
 Process Host: CTX1648

First Level Reviewer: yuj Date: 13-Mar-2021 11:06:22  
 Ratio Calibration: Initial Calibration Level: 6

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
1 PFMOAA										M
179.00 > 84.90	3.999	4.235	-0.236		1096409	0.1060		106	57.5	M
2 R-EVE										M
405.00 > 217.00	6.367	6.390	-0.023		728237	0.1098		110	8063	M
3 R-PSDA										M
440.90 > 241.00	6.407	6.450	-0.043		308448	0.0939		93.9	2582	M
4 Hydrolyzed PSDA										
439.00 > 343.00	6.486	6.529	-0.043		1304914	0.1019		102	23315	
23 PMPA										
229.00 > 185.00	6.755	6.782	-0.027		1814714	0.0932		93.2	2541	
5 NVHOS										
297.00 > 135.00	7.134	7.138	-0.004		626874	0.0858		85.8	11671	
6 PFO2HxA										
245.00 > 85.00	7.737	7.709	0.028		1469082	0.0952		95.2	14872	
22 PEPA										
278.90 > 234.90	8.331	8.299	0.031		526401	0.0790		79.0	3195	
7 PES										
314.90 > 135.00	8.588	8.556	0.032		2074457	0.0857		85.7	51465	
8 PFECA B										
295.00 > 201.00	8.827	8.800	0.027		1007801	0.0890		89.0	19614	
9 PFO3OA										
310.90 > 85.00	9.045	9.048	-0.003		432018	0.0889		88.9	11762	
D 10 13C3 HFPO-DA										
287.00 > 169.00	9.158	9.133	0.025		1511881	0.1943		77.7	42859	
11 HPFO-DA										
285.00 > 169.00	9.158	9.133	0.025	1.000	761014	0.1140		114	16131	
12 R-PSDCA										
397.00 > 217.00	9.523	9.493	0.030		2863380	0.0714		71.4	60463	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 Hydro-EVE Acid										
427.00 > 282.90	9.588	9.525	0.063		5646252	0.0742		74.2	49565	
D 14 13C4 PFHpA										
367.00 > 322.00	9.588	9.558	0.030		4209805	0.1720		68.8	66424	
16 Perfluoroheptanoic acid										
363.00 > 319.00	9.588	9.558	0.030	1.000	2049874	0.1031	Target=0.00	103	14855	
363.00 > 169.00	9.588	9.558	0.030	1.000	563610		3.64(0.00-0.00)		11182	
15 Hydro-PS Acid										
463.00 > 262.90	9.588	9.558	0.030		2626466	0.0838		83.8	59672	
17 PFECA G										
378.90 > 184.90	9.702	9.676	0.026		431431	0.0729		72.9	12180	
18 PFO4DA										
376.90 > 85.00	9.846	9.820	0.026		400522	0.0611		61.1	8553	
20 EVE Acid										
407.00 > 262.90	9.903	9.877	0.026		4112742	0.0806		80.6	58016	
19 PS Acid										
443.00 > 146.90	9.903	9.877	0.026		1116448	0.0831		83.1	24044	
21 TAF										
442.90 > 85.00	10.399	10.374	0.025		368958	0.0641		64.1	1644	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_009.d

Injection Date: 13-Mar-2021 07:59:25

Instrument ID: A12

Lims ID: LCSD 320-467237/3-A

Client ID:

Operator ID: Sac\_inst\_A12

ALS Bottle#: 9

Worklist Smp#: 9

Injection Vol: 500.0 ul

Dil. Factor: 1.0000

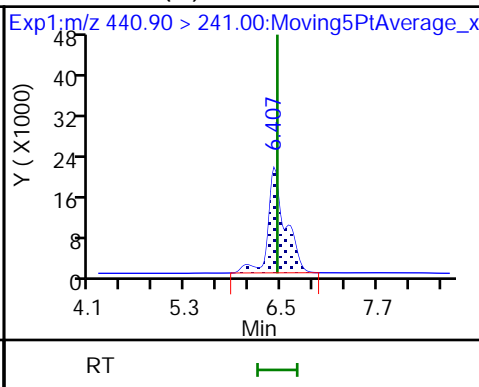
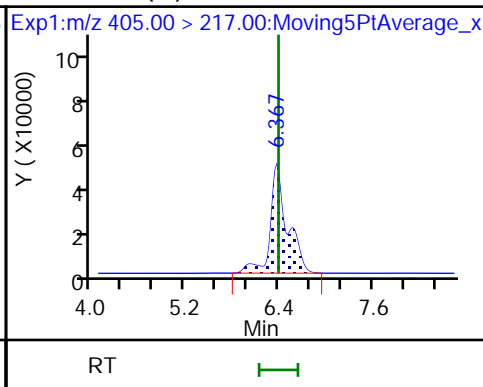
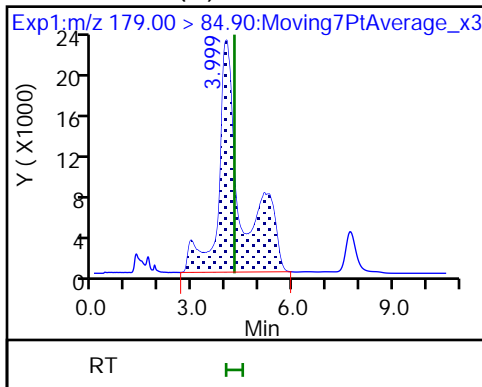
Method: PFAS\_Chem\_TB3+

Limit Group: LC PFAS\_TB3P - ICAL

1 PFMOAA (M)

2 R-EVE (M)

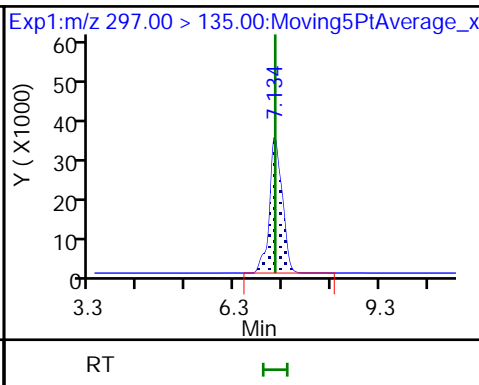
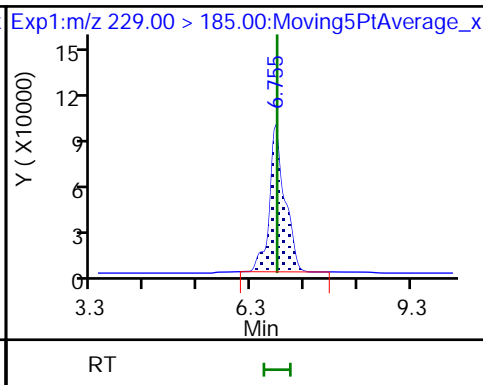
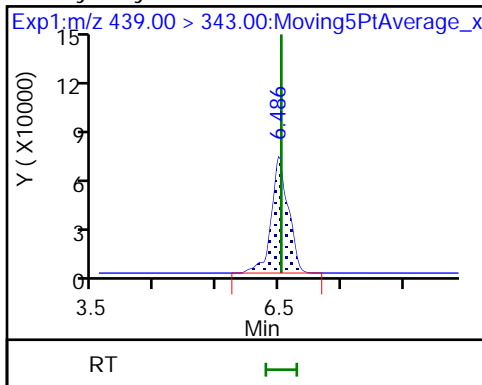
3 R-PSDA (M)



4 Hydrolyzed PSDA

23 PMPA

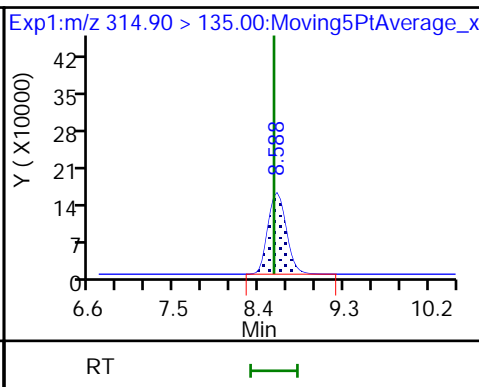
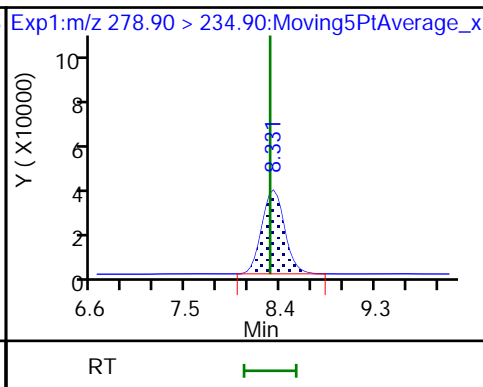
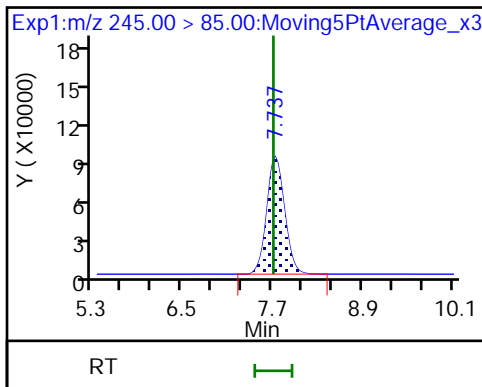
5 NVHOS



6 PFO2HxA

22 PEPA

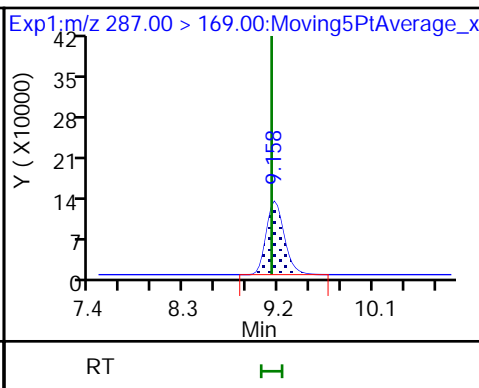
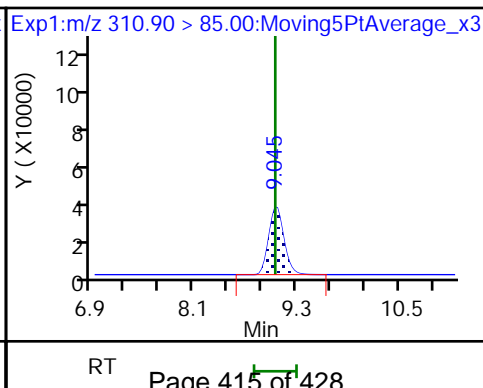
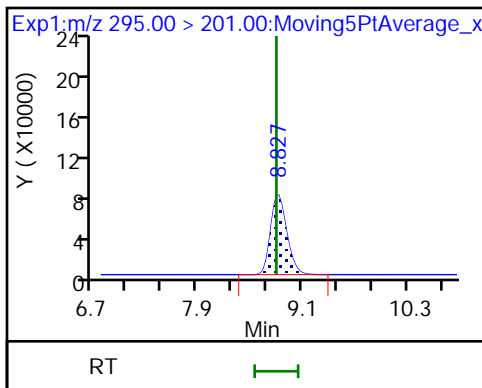
7 PES

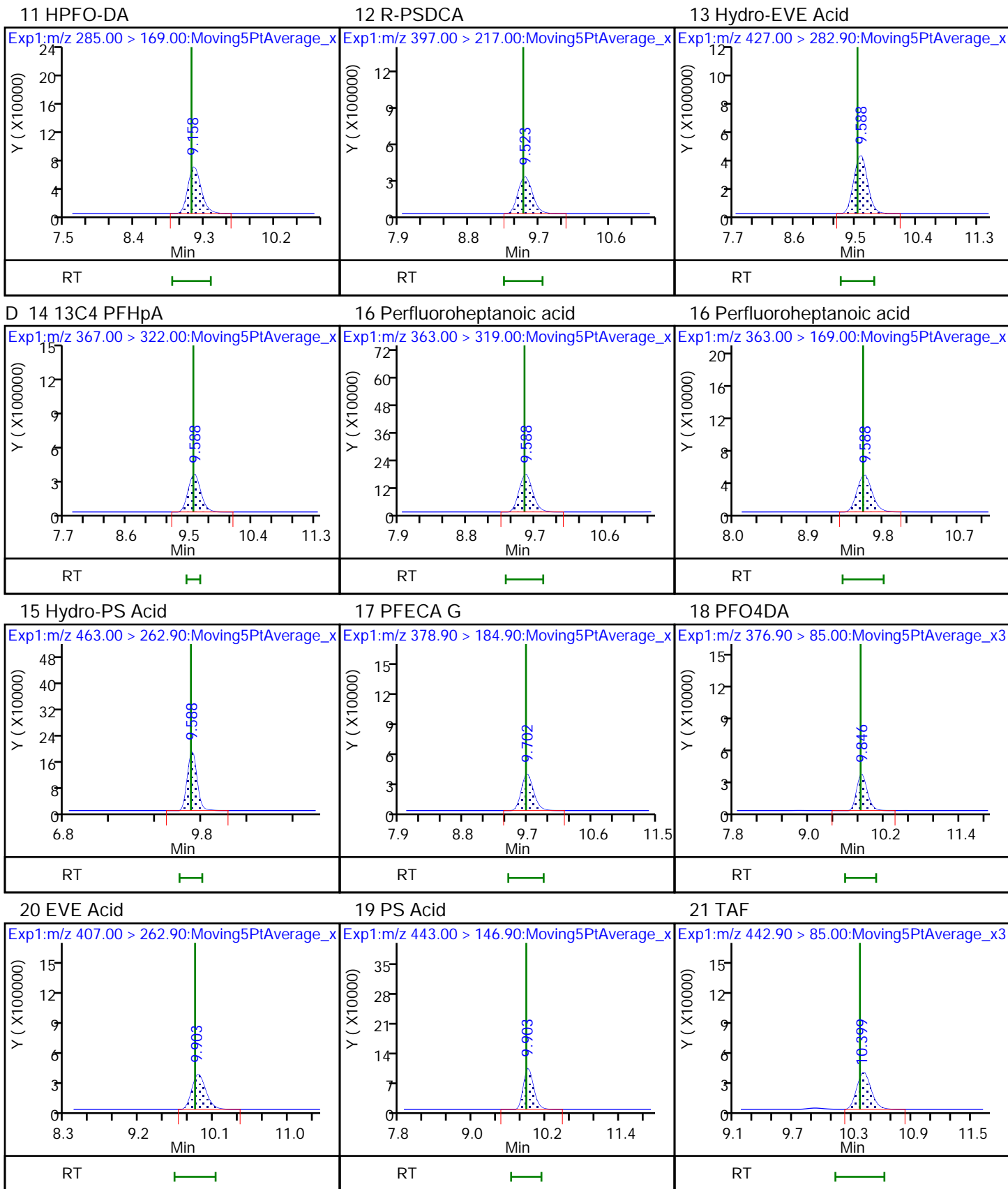


8 PFECA B

9 PFO3OA

D 10 13C3 HFPO-DA







Eurofins TestAmerica, Sacramento

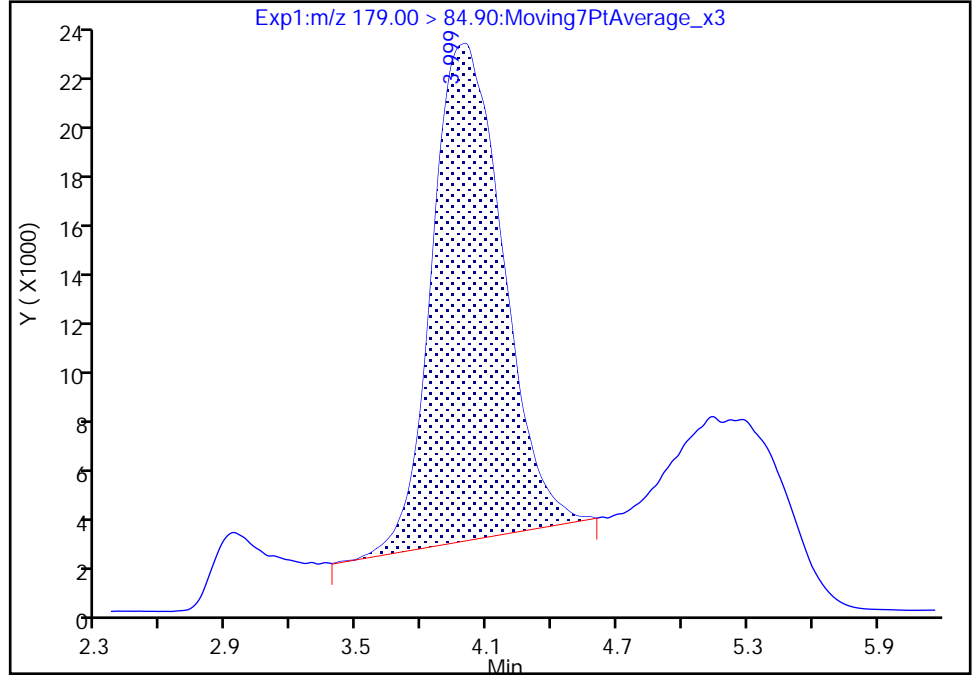
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Injection Date: 13-Mar-2021 07:59:25 Instrument ID: A12  
Lims ID: LCSD 320-467237/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

1 PFMOAA, CAS: 674-13-5

Signal: 1

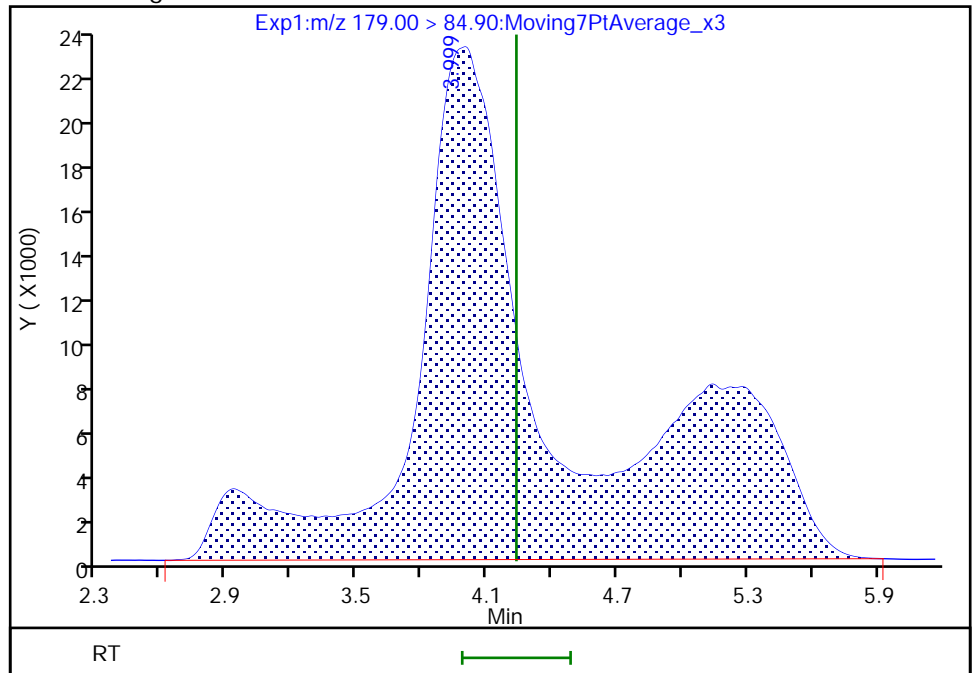
RT: 4.00  
Area: 460080  
Amount: 0.044490  
Amount Units: ng/ml

Processing Integration Results



RT: 4.00  
Area: 1096409  
Amount: 0.106024  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:06:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Sacramento

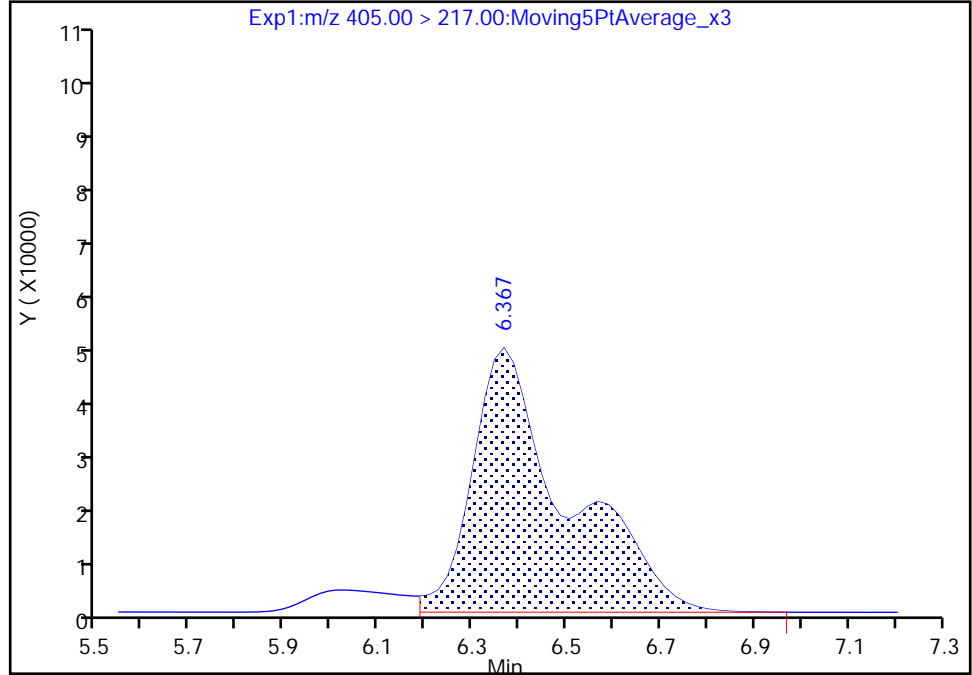
Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_009.d  
Injection Date: 13-Mar-2021 07:59:25 Instrument ID: A12  
Lims ID: LCSD 320-467237/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm (3.00 mm) Detector: EXP1

2 R-EVE, CAS: 2416366-22-6

Signal: 1

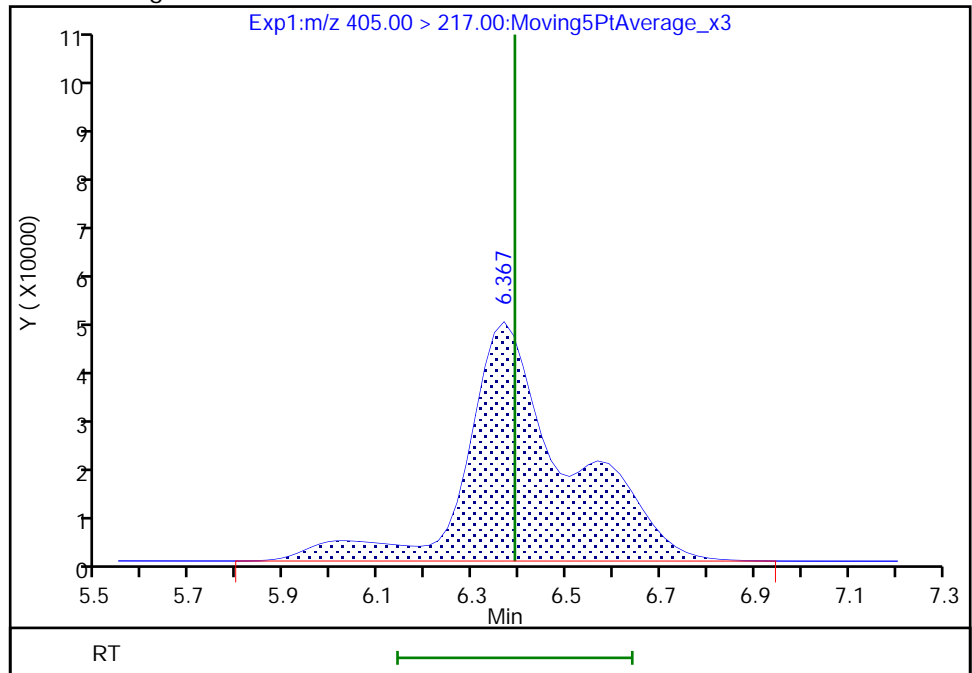
RT: 6.37  
Area: 673048  
Amount: 0.101523  
Amount Units: ng/ml

Processing Integration Results



RT: 6.37  
Area: 728237  
Amount: 0.109847  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:06:05  
Audit Action: Manually Integrated

Eurofins TestAmerica, Sacramento

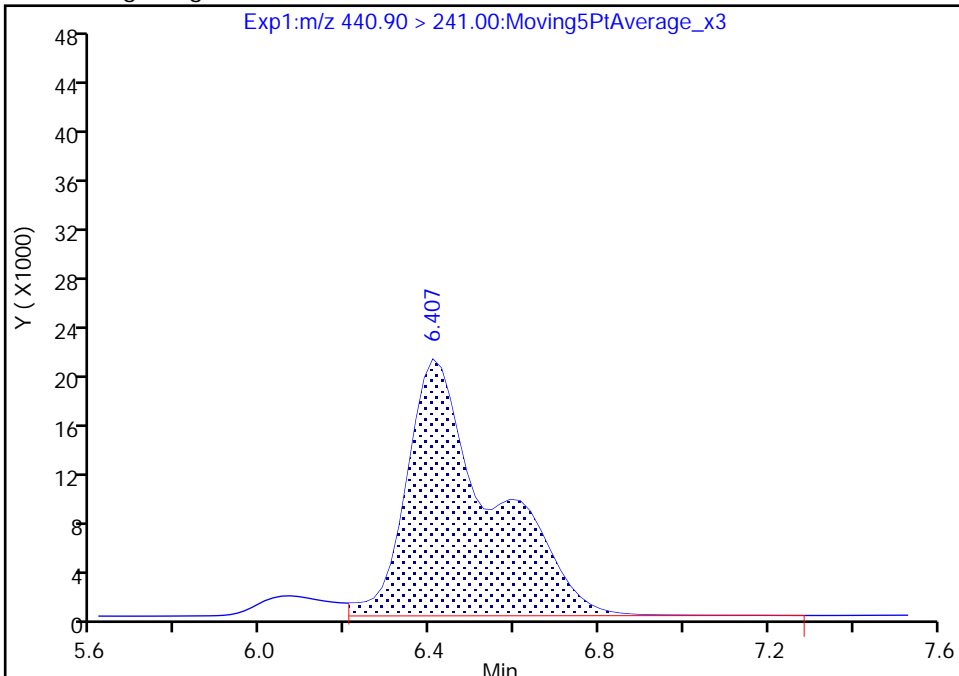
Data File: \\chromfs\Sacramento\ChromData\A12\20210313-114967.b\2021.03.12\_A12\_TB3\_C\_009.d  
Injection Date: 13-Mar-2021 07:59:25 Instrument ID: A12  
Lims ID: LCSD 320-467237/3-A  
Client ID:  
Operator ID: Sac\_inst\_A12 ALS Bottle#: 9 Worklist Smp#: 9  
Injection Vol: 500.0 ul Dil. Factor: 1.0000  
Method: PFAS\_Chem\_TB3+ Limit Group: LC PFAS\_TB3P - ICAL  
Column: Gemini C18 3um 3 x 100mm ( 3.00 mm) Detector: EXP1

3 R-PSDA, CAS: 2416366-18-0

Signal: 1

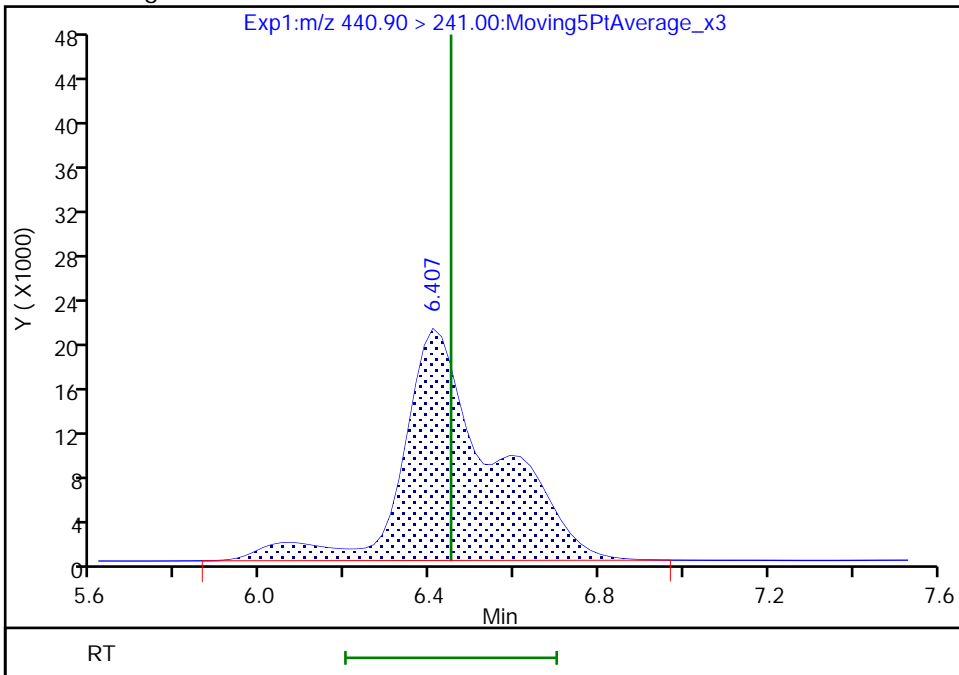
RT: 6.41  
Area: 291353  
Amount: 0.088682  
Amount Units: ng/ml

Processing Integration Results



RT: 6.41  
Area: 308448  
Amount: 0.093886  
Amount Units: ng/ml

Manual Integration Results



Reviewer: yuj, 13-Mar-2021 11:06:09  
Audit Action: Manually Integrated

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 03/08/2021 14:45

Analysis Batch Number: 468521 End Date: 03/08/2021 19:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-468521/2		03/08/2021 14:45	1	2021.03.08_A12_TB3_ICAL_003.d	GeminiC18 3x100 3(mm)
IC 320-468521/3		03/08/2021 15:03	1	2021.03.08_A12_TB3_ICAL_004.d	GeminiC18 3x100 3(mm)
IC 320-468521/4		03/08/2021 15:21	1	2021.03.08_A12_TB3_ICAL_005.d	GeminiC18 3x100 3(mm)
IC 320-468521/5		03/08/2021 15:38	1	2021.03.08_A12_TB3_ICAL_006.d	GeminiC18 3x100 3(mm)
IC 320-468521/6		03/08/2021 15:56	1	2021.03.08_A12_TB3_ICAL_007.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 16:14	1		GeminiC18 3x100 3(mm)
IC 320-468521/8		03/08/2021 16:32	1	2021.03.08_A12_TB3_ICAL_009.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 16:49	1		GeminiC18 3x100 3(mm)
IC 320-468521/10		03/08/2021 17:07	1	2021.03.08_A12_TB3_ICAL_011.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 17:24	1		GeminiC18 3x100 3(mm)
IC 320-468521/12		03/08/2021 17:42	1	2021.03.08_A12_TB3_ICAL_013.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 18:00	1		GeminiC18 3x100 3(mm)
IC 320-468521/14		03/08/2021 18:17	1	2021.03.08_A12_TB3_ICAL_015.d	GeminiC18 3x100 3(mm)
IC 320-468521/15		03/08/2021 18:35	1	2021.03.08_A12_TB3_ICAL_016.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 18:53	1		GeminiC18 3x100 3(mm)
ICV 320-468521/17		03/08/2021 19:10	1	2021.03.08_A12_TB3_ICAL_018.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/08/2021 19:28	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 03/09/2021 23:37

Analysis Batch Number: 468770 End Date: 03/10/2021 07:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-468770/1		03/09/2021 23:37	1	2021.03.09_TB3_A12 AB 029.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/09/2021 23:55	1		GeminiC18 3x100 3(mm)
MB 320-467237/1-A		03/10/2021 00:12	1	2021.03.09_TB3_A12 AB 031.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 00:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 00:47	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 01:05	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 01:23	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 01:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 01:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 02:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 02:33	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 02:51	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 03:09	1		GeminiC18 3x100 3(mm)
CCV 320-468770/14		03/10/2021 03:26	1	2021.03.09_TB3_A12 AB 042.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 03:44	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 04:02	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 04:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 04:37	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 04:54	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 05:12	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 05:30	1		GeminiC18 3x100 3(mm)
320-70652-1	SEEP-C-Effluent-24-02721	03/10/2021 05:48	1	2021.03.09_TB3_A12 AB 050.d	GeminiC18 3x100 3(mm)
320-70652-2	SEEP-C-Influent-24-02721	03/10/2021 06:05	1	2021.03.09_TB3_A12 AB 051.d	GeminiC18 3x100 3(mm)
320-70652-3	Seep-C-EQBLK-ISCO-022721	03/10/2021 06:23	1	2021.03.09_TB3_A12 AB 052.d	GeminiC18 3x100 3(mm)
320-70652-4	SEEP-C-FBLK-022721	03/10/2021 06:40	1	2021.03.09_TB3_A12 AB 053.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/10/2021 06:58	1		GeminiC18 3x100 3(mm)
CCV 320-468770/27		03/10/2021 07:16	1	2021.03.09_TB3_A12 AB 055.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 03/11/2021 12:14

Analysis Batch Number: 469371 End Date: 03/11/2021 16:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-469371/3		03/11/2021 12:14	1	2021.03.11_A12_TB3_ICAL_A_006.d	GeminiC18 3x100 3(mm)
IC 320-469371/4		03/11/2021 12:32	1	2021.03.11_A12_TB3_ICAL_A_007.d	GeminiC18 3x100 3(mm)
IC 320-469371/5		03/11/2021 12:50	1	2021.03.11_A12_TB3_ICAL_A_008.d	GeminiC18 3x100 3(mm)
IC 320-469371/6		03/11/2021 13:07	1	2021.03.11_A12_TB3_ICAL_A_009.d	GeminiC18 3x100 3(mm)
IC 320-469371/7		03/11/2021 13:25	1	2021.03.11_A12_TB3_ICAL_A_010.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/11/2021 13:43	1		GeminiC18 3x100 3(mm)
IC 320-469371/9		03/11/2021 14:00	1	2021.03.11_A12_TB3_ICAL_A_012.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/11/2021 14:18	1		GeminiC18 3x100 3(mm)
IC 320-469371/11		03/11/2021 14:36	1	2021.03.11_A12_TB3_ICAL_A_014.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/11/2021 14:53	1		GeminiC18 3x100 3(mm)
IC 320-469371/13		03/11/2021 15:11	1	2021.03.11_A12_TB3_ICAL_A_016.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/11/2021 15:28	1		GeminiC18 3x100 3(mm)
IC 320-469371/15		03/11/2021 15:46	1	2021.03.11_A12_TB3_ICAL_A_018.d	GeminiC18 3x100 3(mm)
IC 320-469371/16		03/11/2021 16:03	1	2021.03.11_A12_TB3_ICAL_A_019.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/11/2021 16:21	1		GeminiC18 3x100 3(mm)
ICV 320-469371/18		03/11/2021 16:39	1	2021.03.11_A12_TB3_ICAL_A_021.d	GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Sacramento Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Instrument ID: A12 Start Date: 03/13/2021 05:56

Analysis Batch Number: 469973 End Date: 03/13/2021 08:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-469973/1		03/13/2021 05:56	1	2021.03.12_A12_ TB3 C 002.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 06:13	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 06:31	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 06:48	50		GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 07:06	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 07:24	5		GeminiC18 3x100 3(mm)
LCS 320-467237/2-A		03/13/2021 07:41	1	2021.03.12_A12_ TB3 C 008.d	GeminiC18 3x100 3(mm)
LCSD 320-467237/3-A		03/13/2021 07:59	1	2021.03.12_A12_ TB3 C 009.d	GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 08:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		03/13/2021 08:34	1		GeminiC18 3x100 3(mm)
CCV 320-469973/11		03/13/2021 08:52	1	2021.03.12_A12_ TB3 C 012.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Sacramen Job No.: 320-70652-1

SDG No.: \_\_\_\_\_

Batch Number: 467237 Batch Start Date: 03/03/21 20:40 Batch Analyst: Xiong, Fong C

Batch Method: PFAS Prep Batch End Date: 03/03/21 23:23

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMTB3_SU 00022	LCTB3_SP 00063	AnalysisComment	
MB 320-467237/1		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL			
LCS 320-467237/2		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL	100 uL		
LCSD 320-467237/3		PFAS Prep, Chemours (TB3+)		2.50 mL	5.00 mL	250 uL	100 uL		
320-70652-A-1	SEEP-C-Effluent-24-022721	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.00 mL	250 uL		pH = 7.	
320-70652-A-2	SEEP-C-Influent-24-022721	PFAS Prep, Chemours (TB3+)	T	0.025 mL	5.00 mL	250 uL		pH = 7.	
320-70652-A-3	Seep-C-EQBLK-ISC O-022721	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7.	
320-70652-A-4	SEEP-C-FBLK-022721	PFAS Prep, Chemours (TB3+)	T	2.50 mL	5.00 mL	250 uL		pH = 7.	

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Chemours (TB3+)

# Shipping and Receiving Documents




Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING  
TestAmerica Laboratories, Inc.

Sacramento, CA 95605  
(916) 373-5600

Regulatory Program:  DW  NPDES  RCRA  Other:

Client Contact		Site Contact: Christie Compton		Date: 03/01/2021	Carrier: FedEx
Chemosours		Lab Contact:		COC No: PAR-050720-2 1 of 1 COCs	
22828 NC HWY 87 W		Analysis Turnaround Time		Sampler:	
Fayetteville, NC 28306		<input checked="" type="checkbox"/> CALENDAR DAYS <input checked="" type="checkbox"/> WORKING DAYS		For Lab Use Only:	
910-678-1213		TAT, if different from Below _____		Walk-in Client:	
Project Name: Seep Flow Through Cell Sampling 2021		<input checked="" type="checkbox"/> 2 weeks		Lab Sampling:	
Site: Chemosours Fayetteville Works Plant		<input type="checkbox"/> 1 week		Job / SDG No.:	
PO #		<input type="checkbox"/> 2 days		Sample Specific Notes:	
		<input type="checkbox"/> 1 day			
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.
SEEP-C-Effluent-24-022721	2/27/2021	16:00:00	HC	W	8
SEEP-C-Influent-24-022721	2/27/2021	16:00:00	HC	W	8
Seep-C-EQBLK-ISCO-022721	2/27/2021	16:45	G	W	8
SEEP-C-FBLK-022721	2/27/2021	16:50	G	W	8
 320-70652 Chain of Custody					
Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other					
Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.					
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
<input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for _____ Months					
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.: 1547253		Therm ID No.: 1.4	
Relinquished by: <i>Christie Compton</i>		Company: PARSONS		Received by: <i>Christie Compton</i>	
Relinquished by:		Company:		Date/Time: 3/1/2021 11:00	
Relinquished by:		Company:		Date/Time:	

# Login Sample Receipt Checklist

Client: The Chemours Company FC, LLC

Job Number: 320-70652-1

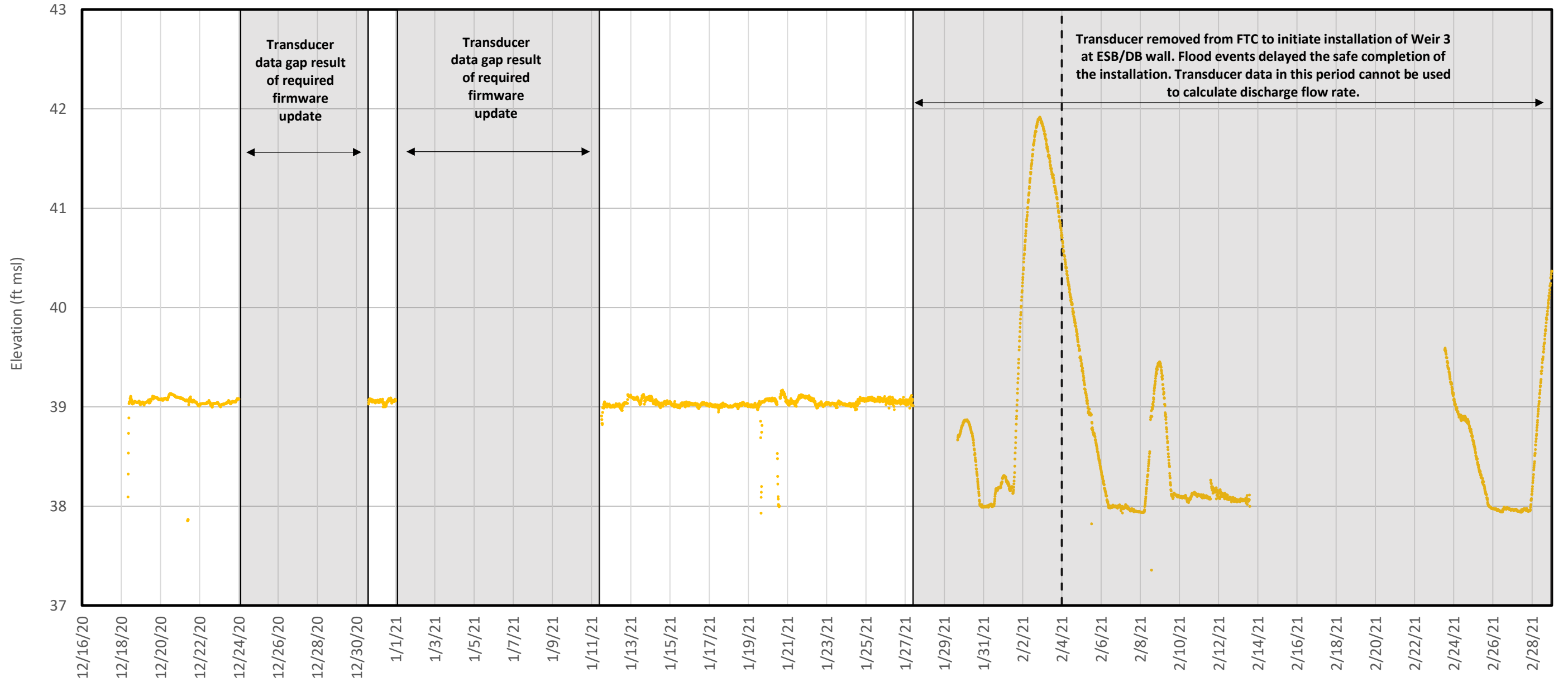
**Login Number: 70652**  
**List Number: 1**  
**Creator: Oropeza, Salvador**

**List Source: Eurofins TestAmerica, Sacramento**

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1547253
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

# APPENDIX D

## Transducer Data Reduction



**Legend**

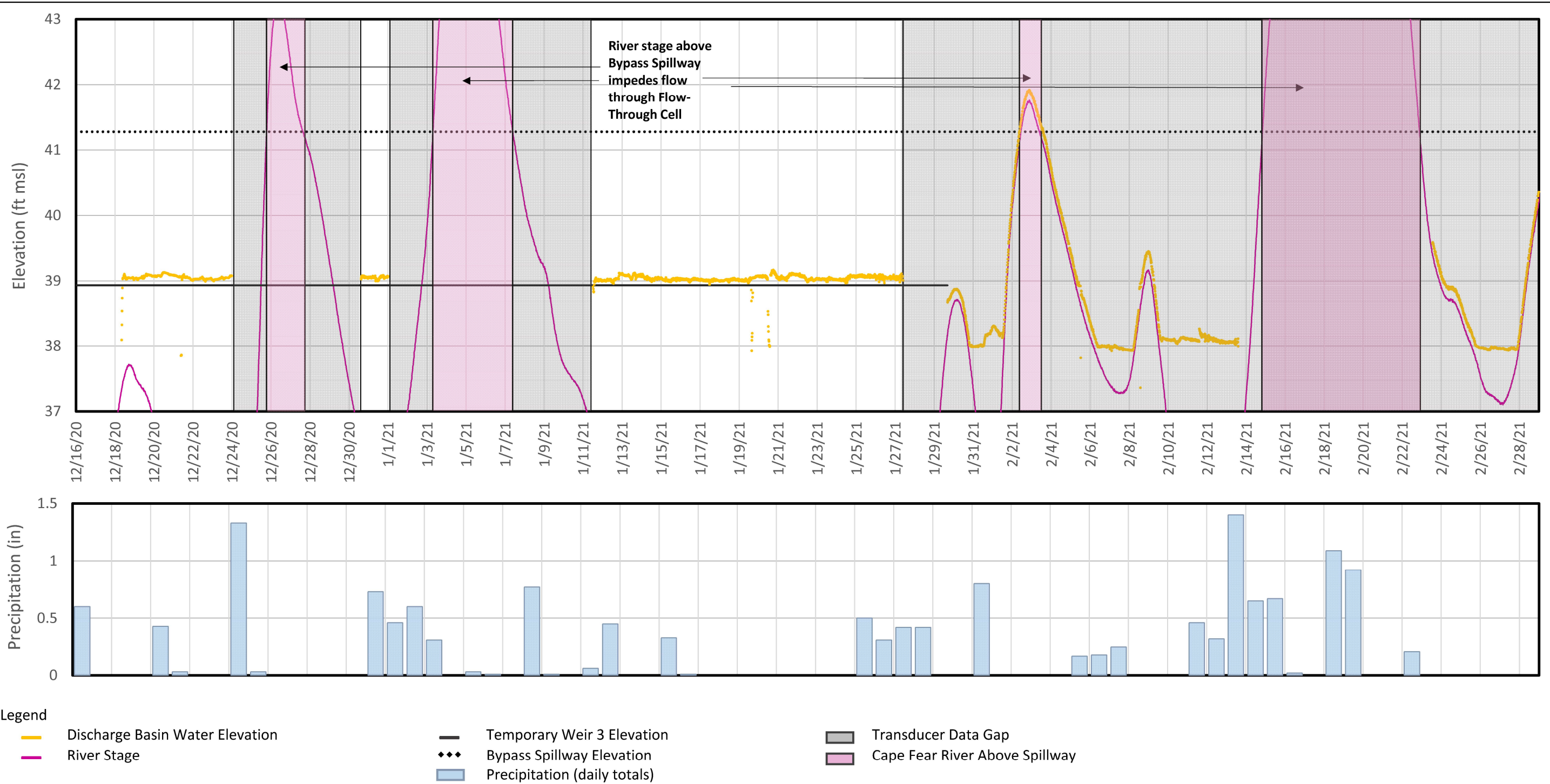
- Discharge Basin Elevation
- Transducer Data Gap
- GAC Changeout

**Note:**

Figure D1 shows the discharge basin transducer data that was collected during the reporting period. Gaps in the data record are shown (grey shading) and described above.

<b>Discharge Basin Water Elevation</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
 Geosyntec consultants	Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295
Raleigh, NC	March 2021

**Figure  
D1**

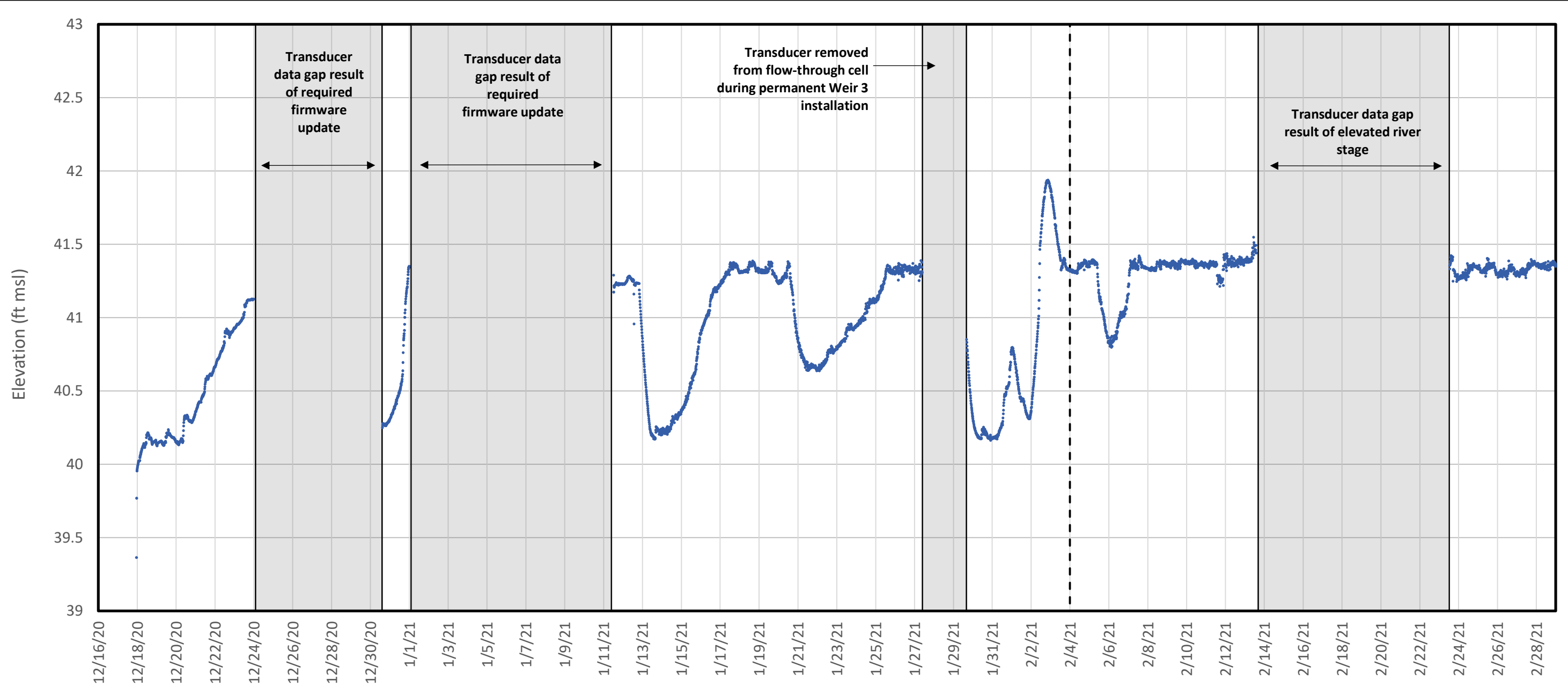


**Notes:**

- 1 - As water can flow through the flow-through cell both as a result of wet weather inflow and elevated river levels from flooding, Figure D2 compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.
- 2 - Discharge Basin transducer data that was affected by river flooding (pink shading) is excluded from the dataset, to evaluate only effluent flow measurements that are from the flow-through cell.

<b>Discharge Basin Water Elevation and External Forcings</b> Chemours Fayetteville Works Fayetteville, North Carolina		<b>Figure D2</b>
Geosyntec consultants	Geosyntec Consultants of NC, P.C. <small>NC License No.: C-3506 and C-295</small>	
Raleigh, NC	March 2021	

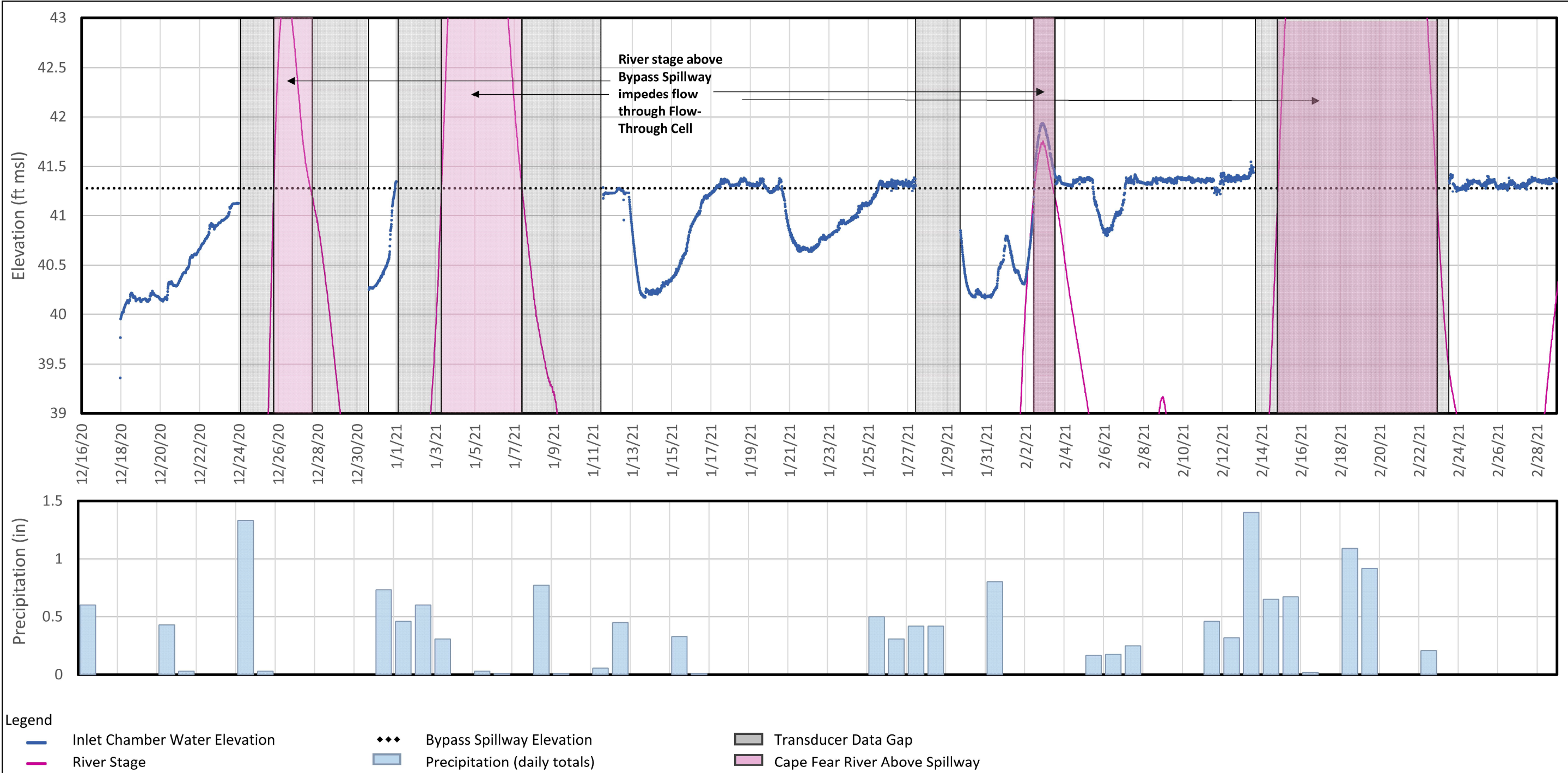




**Legend**  
— Influent Chamber/Impoundment Elevation  
 Transducer Data Gap  
 GAC Changeout

**Note:**  
 Figure D3 shows the influent transducer data that was collected during the reporting period. Gaps in the data record are shown (grey shading) and described above.

<b>Influent Chamber Water Elevation</b>	
Chemours Fayetteville Works Fayetteville, North Carolina	
	<small>Geosyntec Consultants of NC, P.C. NC License No.: C 3500 and C 295</small>
Raleigh, NC	March 2021
<b>Figure D3</b>	



Notes:

1 - As water can flow through the Bypass Spillway both as a result of wet weather inflow and elevated river levels from flooding, Figure D4 compares the available transducer data to precipitation and river stage elevation data available from the USGS Huske Lock and Dam.

2 - Inlet Chamber transducer data that was affected by river flooding (pink shading) is excluded from the dataset, to evaluate only bypass flow measurements that are from the impoundment.

<b>Inlet Chamber Water Elevation and External Forcings</b> Chemours Fayetteville Works Fayetteville, North Carolina		<b>Figure D4</b>
Geosyntec consultants	Geosyntec Consultants of NC, P.C. <small>NC License No.: C-3500 and C-295</small>	
Raleigh, NC	March 2021	