



ALS Environmental
ALS Group USA, Corp
1317 South 13th Avenue
Kelso, WA 98626
T : +1 360 577 7222
F : +1 360 636 1068
www.alsglobal.com

November 25, 2020

Analytical Report for Service Request No: K2010308

Delaney Peterson
Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA 98101

RE: GascoSiltromic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory November 06, 2020
For your reference, these analyses have been assigned our service request number **K2010308**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.alsglobal.com. All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3376. You may also contact me via email at Mark.Harris@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Mark Harris
Project Manager



ALS Environmental
ALS Group USA, Corp
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Kelso, WA 98626
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F : +1 360 636 1068
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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
 - i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
 - i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso
State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEH	http://dec.alaska.gov/eh/lab/cs/csapproval.htm	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2795
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L16-58-R4
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Hawaii DOH	http://health.hawaii.gov/	-
ISO 17025	http://www.pjllabs.com/	L16-57
Louisiana DEQ	http://www.deq.louisiana.gov/page/la-lab-accreditation	03016
Maine DHS	http://www.maine.gov/dhhs/	WA01276
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-457
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA01276
New Jersey DEP	http://www.nj.gov/dep/enforcement/oqa.html	WA005
New York - DOH	https://www.wadsworth.org/regulatory/elap	12060
North Carolina DEQ	https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/non-field-lab-certification	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA100010
South Carolina DHEC	http://www.scdhec.gov/environment/EnvironmentalLabCertification/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	T104704427
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C544
Wyoming (EPA Region 8)	https://www.epa.gov/region8-waterops/epa-region-8-certified-drinking-water	-
Kelso Laboratory Website	www.alsglobal.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.ALSGlobal.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



Case Narrative

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Received: 11/06/2020

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

Sample Receipt:

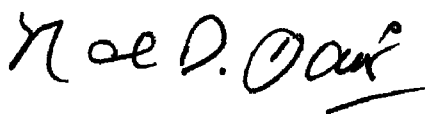
Twenty six sediment samples were received for analysis at ALS Environmental on 11/06/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Semivoa GC:

Method 8151A, 11/25/2020: The control criteria for the matrix spike recovery of 2,4-D for sample UDMPDI-049SC-B-14-16-201104 was not applicable. The chromatogram indicated non-target matrix background components contributed to the reported matrix spike concentrations. The extract required dilution resulting in detection below method reporting limits (MRL).

Method 8151A, 11/25/2020: The detection limit was elevated for all analytes in many samples. The sample extracts were diluted prior to instrumental analysis due to relatively high levels of non-target background components. The extracts were highly colored and viscous, which indicated the need to perform a dilution prior to injection into the instrument. Clean-up of the extracts were performed within the scope of the method, but did not eliminate enough of the background components to prevent dilution.

The percent recoveries for the surrogate, DCAA, were not within the project specified control limits following the analyses of samples USMPDI-049SC-B-08-10-201104 and USMPDI-049SC-B-10-12-201104. Since the percent recoveries were within laboratory established QC limits, no corrective actions were taken.

Approved by 

Date 11/25/2020



Chain of Custody

ALS Environmental—Kelso Laboratory
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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

12010308

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201104-163501
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-039SC-B-00-02-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-039SC-B-02-04-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-039SC-B-04-06-201104	N	SE	11/04/2020	13:15	2	<input checked="" type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-039SC-B-06-08-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-039SC-B-08-10-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-039SC-B-10-12-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-039SC-B-12-14-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>Susan Norwood</i>	<i>Naomi Peterson</i>				
<i>Anchor OEA</i>	<i>ALS</i>				
<i>11/5/20 @ 0855</i>	<i>11/6/20 1100</i>				

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010308
 ALS-20201104-163501

POC: # Delaney Peterson (360-715-2707)
 1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201104-163501
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
007	USMPDI-039SC-B-12-14-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-039SC-B-14-16-201104	N	SE	11/04/2020	13:15	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-044SC-B-00-02-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-044SC-B-02-04-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-044SC-B-04-06-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-044SC-B-06-08-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-044SC-B-08-10-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature	Signature	Signature	Signature	Signature	Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010308

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201104-163501
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
014	USMPDI-044SC-B-10-12-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
015	USMPDI-044SC-B-12-14-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
016	USMPDI-044SC-B-14-16-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
017	USMPDI-044SC-B-16-17.3-201104	N	SE	11/04/2020	8:35	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
018	USMPDI-1044SC-B-02-04-201104	FD	SE	11/04/2020		1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
019	USMPDI-049SC-B-00-02-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides Total Solids (ALS)	SW8151A SM2540G	30 30	4°C 4°C
020	USMPDI-049SC-B-02-04-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C

Comment:					
Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time
<i>11/5/20 @ 0755</i>	<i>Naomi Pedersen</i>		<i>11/6/20 1100</i>		

* Lab QC Requested for sample when box is checked ** TAT = Turn Around Time in DAYS # POC = Project Point of Contact

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

11/20/2020

POC: # Delaney Peterson (360-715-2707)
1605 Cornwall Avenue, Bellingham, WA 98225

Project: GascoSiltronic: US Moorings
Client: NW Natural

COC ID: ALS-20201104-163501
Sample Custodian: SN
Lab: ALS Environmental, Kelso, V

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
020	USMPDI-049SC-B-02-04-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Total Solids (ALS)	SM2540G	30	4°C
021	USMPDI-049SC-B-04-06-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
022	USMPDI-049SC-B-06-08-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
023	USMPDI-049SC-B-08-10-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
024	USMPDI-049SC-B-10-12-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
025	USMPDI-049SC-B-12-14-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
026	USMPDI-049SC-B-14-16-201104	N	SE	11/04/2020	15:20	1	<input type="checkbox"/>	Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C

Comment:

Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature	Relinquished By Signature	Received By Signature
Print Name	Print Name	Print Name	Print Name	Print Name	Print Name
Company	Company	Company	Company	Company	Company
Date/Time	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

PM *Mark*

Cooler Receipt and Preservation Form

Client Anchor Service Request **K20** 10308
Received: 11/6/20 Opened: 11/6/20 By: MP Unloaded: 11/6/20 By: MP

- 1. Samples were received via? **USPS** *Fed Ex* **UPS** *DHL* **PDX** Courier *Hand Delivered*
 - 2. Samples were received in: (circle) Cooler *Box* *Envelope* *Other* *NA*
 - 3. Were custody seals on coolers? NA X N If yes, how many and where? 1 Front
If present, were custody seals intact? Y N If present, were they signed and dated? Y N
 - 4. Was a Temperature Blank present in cooler? NA Y N If yes, notate the temperature in the appropriate column below:
If no, take the temperature of a representative sample bottle contained within the cooler; notate in the column "Sample Temp":
 - 5. Were samples received within the method specified temperature ranges? NA Y N
If no, were they received on ice and same day as collected? If not, notate the cooler # below and notify the PM. NA Y N
- If applicable, tissue samples were received: **Frozen** *Partially Thawed* *Thawed*

Temp Blank	Sample Temp	IR Gun	Cooler #/COC ID / NA	Out of temp indicate with "X"	PM Notified If out of temp	Tracking Number <u>NA</u>	Filed
<u>54</u>	<u>—</u>	<u>1802</u>	<u>AF-202011041-163501</u>	<u>—</u>	<u>—</u>		

- 6. Packing material: *Inserts* Baggies Bubble Wrap *Gel Packs* Wet Ice *Dry Ice* *Sleeves*
- 7. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
- 8. Were samples received in good condition (unbroken) NA Y N
- 9. Were all sample labels complete (ie, analysis, preservation, etc.)? NA Y N
- 10. Did all sample labels and tags agree with custody papers? NA Y N
- 11. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 12. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
- 13. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
- 14. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, Resolutions: Sample 007 to 020 are listed twice on COC but only received 1 container for the samples.



Total Solids

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Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment
Analysis Method: SM 2540 G
Prep Method: None

Service Request: K2010308
Date Collected: 11/4/20
Date Received: 11/6/20
Units: Percent
Basis: As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-039SC-B-00-02-201104	K2010308-001	62.3	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-02-04-201104	K2010308-002	76.7	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-04-06-201104	K2010308-003	83.0	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-06-08-201104	K2010308-004	80.0	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-08-10-201104	K2010308-005	77.6	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-10-12-201104	K2010308-006	74.5	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-12-14-201104	K2010308-007	87.4	-	-	1	11/19/20 18:00	*
USMPDI-039SC-B-14-16-201104	K2010308-008	79.7	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-00-02-201104	K2010308-009	45.5	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-02-04-201104	K2010308-010	51.8	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-04-06-201104	K2010308-011	52.8	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-06-08-201104	K2010308-012	55.6	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-08-10-201104	K2010308-013	55.4	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-10-12-201104	K2010308-014	58.3	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-12-14-201104	K2010308-015	56.2	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-14-16-201104	K2010308-016	58.9	-	-	1	11/19/20 18:00	*
USMPDI-044SC-B-16-17.3-201104	K2010308-017	70.6	-	-	1	11/20/20 17:55	*
USMPDI-1044SC-B-02-04-201104	K2010308-018	52.6	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-00-02-201104	K2010308-019	44.4	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-02-04-201104	K2010308-020	50.2	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-04-06-201104	K2010308-021	56.2	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-06-08-201104	K2010308-022	54.6	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-08-10-201104	K2010308-023	57.9	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-10-12-201104	K2010308-024	57.8	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-12-14-201104	K2010308-025	56.9	-	-	1	11/20/20 17:55	*
USMPDI-049SC-B-14-16-201104	K2010308-026	56.3	-	-	1	11/20/20 17:55	*
Method Blank	K2010308-MB1	ND U	-	-	1	11/19/20 18:00	
Method Blank	K2010308-MB2	ND U	-	-	1	11/20/20 17:55	

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment
Analysis Method: SM 2540 G
Prep Method: None

Service Request: K2010308
Date Collected: 11/04/20
Date Received: 11/06/20

Units: Percent
Basis: As Received

Replicate Sample Summary
Solids, Total

Sample Name:	Lab Code:	MRL	MDL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
USMPDI-039SC-B-04-06-201104	K2010308-003DUP	-	-	83.0	82.9	83.0	<1	20	11/19/20
USMPDI-044SC-B-14-16-201104	K2010308-016DUP	-	-	58.9	58.4	58.7	<1	20	11/19/20
USMPDI-049SC-B-02-04-201104	K2010308-020DUP	-	-	50.2	50.8	50.5	1	20	11/20/20
Batch QC	K2010403-004DUP	-	-	87.3	87.1	87.2	<1	20	11/20/20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.



Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-00-02-201104
Lab Code: K2010308-001

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	80	3.9	1	11/24/20 17:57	11/10/20	
2,4-D	ND U	80	13	1	11/24/20 17:57	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	62	26 - 127	11/24/20 17:57	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-02-04-201104
Lab Code: K2010308-002

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	65	3.2	1	11/24/20 18:20	11/10/20	
2,4-D	ND U	65	11	1	11/24/20 18:20	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	26 - 127	11/24/20 18:20	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-04-06-201104
Lab Code: K2010308-003

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	60	2.9	1	11/24/20 18:42	11/10/20	
2,4-D	ND U	60	9.3	1	11/24/20 18:42	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	60	26 - 127	11/24/20 18:42	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-06-08-201104
Lab Code: K2010308-004

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	62	3.0	1	11/24/20 19:05	11/10/20	
2,4-D	ND U	62	9.6	1	11/24/20 19:05	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/24/20 19:05	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-08-10-201104
Lab Code: K2010308-005

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	64	3.1	1	11/24/20 19:28	11/10/20	
2,4-D	ND U	64	9.9	1	11/24/20 19:28	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	11/24/20 19:28	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-10-12-201104
Lab Code: K2010308-006

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	67	3.2	1	11/24/20 19:51	11/10/20	
2,4-D	ND U	67	11	1	11/24/20 19:51	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	11/24/20 19:51	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-12-14-201104
Lab Code: K2010308-007

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	57	2.8	1	11/24/20 20:59	11/10/20	
2,4-D	ND U	57	8.8	1	11/24/20 20:59	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	11/24/20 20:59	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/06/20 11:00

Sample Name: USMPDI-039SC-B-14-16-201104
Lab Code: K2010308-008

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	63	3.1	1	11/24/20 21:22	11/10/20	
2,4-D	ND U	63	9.7	1	11/24/20 21:22	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	26 - 127	11/24/20 21:22	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-00-02-201104
Lab Code: K2010308-009

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	110	5.3	1	11/24/20 21:45	11/10/20	
2,4-D	ND U	110	17	1	11/24/20 21:45	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/24/20 21:45	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-02-04-201104
Lab Code: K2010308-010

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	96	4.7	1	11/24/20 22:08	11/10/20	
2,4-D	ND U	96	15	1	11/24/20 22:08	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	72	26 - 127	11/24/20 22:08	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-04-06-201104
Lab Code: K2010308-011

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	94	4.6	1	11/24/20 22:30	11/10/20	
2,4-D	ND U	94	15	1	11/24/20 22:30	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	74	26 - 127	11/24/20 22:30	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-06-08-201104
Lab Code: K2010308-012

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	90	4.4	1	11/24/20 22:53	11/10/20	
2,4-D	ND U	90	14	1	11/24/20 22:53	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	11/24/20 22:53	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-08-10-201104
Lab Code: K2010308-013

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1800	86	20	11/25/20 01:33	11/10/20	
2,4-D	ND U	1800	280	20	11/25/20 01:33	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	26 - 127	11/25/20 01:33	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-10-12-201104
Lab Code: K2010308-014

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1700	83	20	11/25/20 01:56	11/10/20	
2,4-D	ND U	1700	270	20	11/25/20 01:56	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	26 - 127	11/25/20 01:56	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-12-14-201104
Lab Code: K2010308-015

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1800	85	20	11/25/20 02:19	11/10/20	
2,4-D	ND U	1800	280	20	11/25/20 02:19	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	11/25/20 02:19	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-14-16-201104
Lab Code: K2010308-016

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1700	81	20	11/25/20 02:41	11/10/20	
2,4-D	ND U	1700	260	20	11/25/20 02:41	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	68	26 - 127	11/25/20 02:41	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 08:35
Date Received: 11/06/20 11:00

Sample Name: USMPDI-044SC-B-16-17.3-201104
Lab Code: K2010308-017

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1400	68	20	11/25/20 03:04	11/10/20	
2,4-D	ND U	1400	220	20	11/25/20 03:04	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	11/25/20 03:04	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-1044SC-B-02-04-201104
Lab Code: K2010308-018

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1900	91	20	11/25/20 03:27	11/10/20	
2,4-D	ND U	1900	290	20	11/25/20 03:27	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	57	26 - 127	11/25/20 03:27	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-00-02-201104
Lab Code: K2010308-019

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	110	5.4	1	11/24/20 23:16	11/10/20	
2,4-D	ND U	110	18	1	11/24/20 23:16	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	69	26 - 127	11/24/20 23:16	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-02-04-201104
Lab Code: K2010308-020

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	99	4.8	1	11/24/20 23:39	11/10/20	
2,4-D	ND U	99	16	1	11/24/20 23:39	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	11/24/20 23:39	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-04-06-201104
Lab Code: K2010308-021

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1800	85	20	11/25/20 03:50	11/10/20	
2,4-D	ND U	1800	280	20	11/25/20 03:50	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	65	26 - 127	11/25/20 03:50	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-06-08-201104
Lab Code: K2010308-022

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1800	88	20	11/25/20 04:13	11/10/20	
2,4-D	ND U	1800	290	20	11/25/20 04:13	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	26 - 127	11/25/20 04:13	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-08-10-201104
Lab Code: K2010308-023

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1700	83	20	11/25/20 04:36	11/10/20	
2,4-D	ND U	1700	270	20	11/25/20 04:36	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	46	26 - 127	11/25/20 04:36	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-10-12-201104
Lab Code: K2010308-024

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1700	83	20	11/25/20 04:59	11/10/20	
2,4-D	ND U	1700	270	20	11/25/20 04:59	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	44	26 - 127	11/25/20 04:59	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-12-14-201104
Lab Code: K2010308-025

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1700	84	20	11/25/20 06:08	11/10/20	
2,4-D	ND U	1700	270	20	11/25/20 06:08	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	51	26 - 127	11/25/20 06:08	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/06/20 11:00

Sample Name: USMPDI-049SC-B-14-16-201104
Lab Code: K2010308-026

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	1800	86	20	11/25/20 06:30	11/10/20	
2,4-D	ND U	1800	280	20	11/25/20 06:30	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	11/25/20 06:30	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2017638-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	49	2.4	1	11/24/20 17:11	11/10/20	
2,4-D	ND U	49	7.7	1	11/24/20 17:11	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	26 - 127	11/24/20 17:11	

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Analytical Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: KQ2017639-04

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Date Extracted	Q
2,4,5-TP	ND U	50	2.4	1	11/24/20 16:25	11/10/20	
2,4-D	ND U	50	7.7	1	11/24/20 16:25	11/10/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	55	26 - 127	11/24/20 16:25	

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-039SC-B-04-06-201104
Lab Code: KQ2017638-01

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/6/20

Units: ug/Kg
Basis: Dry
Percent Solids: 83.0

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	2.9	91.2	119	26		1	11/24/20 00:02
2,4-D	9.3	89.3	114	24		1	11/24/20 00:02

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-039SC-B-04-06-201104
Lab Code: KQ2017638-02

Service Request: K2010308
Date Collected: 11/04/20 13:15
Date Received: 11/6/20

Units: ug/Kg
Basis: Dry
Percent Solids: 83.0

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	2.9	94.0	129	31		1	11/24/20 00:25
2,4-D	9.3	88.8	121	31		1	11/24/20 00:25

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: Lab Control Sample
Lab Code: KQ2017638-03

Service Request: K2010308
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	2.4	92.2	121	27		1	11/24/20 17:34
2,4-D	7.7	93.1	124	28		1	11/24/20 17:34

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-049SC-B-14-16-201104
Lab Code: KQ2017639-01

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/6/20

Units: ug/Kg
Basis: Dry
Percent Solids: 56.3

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	86	181	193	6	J	20	11/25/20 06:53

ALS Group USA, Corp.
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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: USMPDI-049SC-B-14-16-201104
Lab Code: KQ2017639-02

Service Request: K2010308
Date Collected: 11/04/20 15:20
Date Received: 11/6/20

Units: ug/Kg
Basis: Dry
Percent Solids: 56.3

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	85	172	174	1	J	20	11/25/20 07:16

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Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
SRM Matrix: Sediment
Sample Name: Lab Control Sample
Lab Code: KQ2017639-03

Service Request: K2010308
Date Collected: NA
Date Received:

Units: ug/Kg
Basis: Dry

Chlorinated Herbicides by GC

Analytical Method: 8151A
Prep Method: Method

	MDL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
2,4,5-TP	2.4	77.2	101	27		1	11/24/20 16:48
2,4-D	7.7	97.6	73.4	28		1	11/24/20 16:48

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA
		26-127
USMPDI-039SC-B-00-02-201104	K2010308-001	62
USMPDI-039SC-B-02-04-201104	K2010308-002	61
USMPDI-039SC-B-04-06-201104	K2010308-003	60
USMPDI-039SC-B-06-08-201104	K2010308-004	64
USMPDI-039SC-B-08-10-201104	K2010308-005	56
USMPDI-039SC-B-10-12-201104	K2010308-006	64
USMPDI-039SC-B-12-14-201104	K2010308-007	54
USMPDI-039SC-B-14-16-201104	K2010308-008	59
USMPDI-044SC-B-00-02-201104	K2010308-009	66
USMPDI-044SC-B-02-04-201104	K2010308-010	72
USMPDI-044SC-B-04-06-201104	K2010308-011	74
USMPDI-044SC-B-06-08-201104	K2010308-012	66
USMPDI-044SC-B-08-10-201104	K2010308-013	65
USMPDI-044SC-B-10-12-201104	K2010308-014	63
USMPDI-044SC-B-12-14-201104	K2010308-015	54
USMPDI-044SC-B-14-16-201104	K2010308-016	68
USMPDI-044SC-B-16-17.3-201104	K2010308-017	56
USMPDI-1044SC-B-02-04-201104	K2010308-018	57
USMPDI-049SC-B-00-02-201104	K2010308-019	69
USMPDI-049SC-B-02-04-201104	K2010308-020	54
USMPDI-049SC-B-04-06-201104	K2010308-021	65
USMPDI-049SC-B-06-08-201104	K2010308-022	61
USMPDI-049SC-B-08-10-201104	K2010308-023	46
USMPDI-049SC-B-10-12-201104	K2010308-024	44
USMPDI-049SC-B-12-14-201104	K2010308-025	51
USMPDI-049SC-B-14-16-201104	K2010308-026	56
Method Blank	KQ2017638-04	61
Method Blank	KQ2017639-04	55
Lab Control Sample	KQ2017638-03	60
Lab Control Sample	KQ2017639-03	52
USMPDI-039SC-B-04-06-201104	KQ2017638-01	53
USMPDI-039SC-B-04-06-201104	KQ2017638-02	52
USMPDI-049SC-B-14-16-201104	KQ2017639-01	52
USMPDI-049SC-B-14-16-201104	KQ2017639-02	48

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20
Date Received: 11/06/20
Date Analyzed: 11/24/20
Date Extracted: 11/10/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name: USMPDI-039SC-B-04-06-201104
Lab Code: K2010308-003
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Result	Matrix Spike KQ2017638-01		Duplicate Matrix Spike KQ2017638-02		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
2,4,5-TP	ND U	91.2	200	46	94.0	201	47	34-129	3	40
2,4-D	ND U	89.3	200	45	88.8	201	44	35-129	<1	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Collected: 11/04/20
Date Received: 11/06/20
Date Analyzed: 11/25/20
Date Extracted: 11/10/20

**Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC**

Sample Name: USMPDI-049SC-B-14-16-201104
Lab Code: K2010308-026
Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry

Analyte Name	Sample Result	Result	Matrix Spike KQ2017639-01		Duplicate Matrix Spike KQ2017639-02		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
2,4,5-TP	ND U	181 J	296	61	172 J	294	58	34-129	6	40
2,4-D	ND U	ND U	296	0 *	ND U	294	0 *	35-129	NC	40

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 704970

Lab Control Sample
KQ2017638-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	92.2	167	55	46-125
2,4-D	93.1	167	56	46-120

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
Prep Method: Method

Units: ug/Kg
Basis: Dry
Analysis Lot: 704970

Lab Control Sample
KQ2017639-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	77.2	167	46	46-125
2,4-D	97.6	167	59	46-120

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 17:11
Date Extracted: 11/10/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank **Instrument ID:** K-GC-24
Lab Code: KQ2017638-04 **File ID:** J:\gc24\data\112420\11240007.D\
Analysis Method: 8151A **Analysis Lot:** 704970
Prep Method: Method **Extraction Lot:** 369505

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-039SC-B-04-06-201104MS	KQ2017638-01	J:\gc24\data\112420\11240025.D\	11/24/20 00:02
USMPDI-039SC-B-04-06-201104DMS	KQ2017638-02	J:\gc24\data\112420\11240026.D\	11/24/20 00:25
Lab Control Sample	KQ2017638-03	J:\gc24\data\112420\11240008.D\	11/24/20 17:34
USMPDI-039SC-B-00-02-201104	K2010308-001	J:\gc24\data\112420\11240009.D\	11/24/20 17:57
USMPDI-039SC-B-02-04-201104	K2010308-002	J:\gc24\data\112420\11240010.D\	11/24/20 18:20
USMPDI-039SC-B-04-06-201104	K2010308-003	J:\gc24\data\112420\11240011.D\	11/24/20 18:42
USMPDI-039SC-B-06-08-201104	K2010308-004	J:\gc24\data\112420\11240012.D\	11/24/20 19:05
USMPDI-039SC-B-08-10-201104	K2010308-005	J:\gc24\data\112420\11240013.D\	11/24/20 19:28
USMPDI-039SC-B-10-12-201104	K2010308-006	J:\gc24\data\112420\11240014.D\	11/24/20 19:51
USMPDI-039SC-B-12-14-201104	K2010308-007	J:\gc24\data\112420\11240017.D\	11/24/20 20:59
USMPDI-039SC-B-14-16-201104	K2010308-008	J:\gc24\data\112420\11240018.D\	11/24/20 21:22
USMPDI-044SC-B-00-02-201104	K2010308-009	J:\gc24\data\112420\11240019.D\	11/24/20 21:45
USMPDI-044SC-B-02-04-201104	K2010308-010	J:\gc24\data\112420\11240020.D\	11/24/20 22:08
USMPDI-044SC-B-04-06-201104	K2010308-011	J:\gc24\data\112420\11240021.D\	11/24/20 22:30
USMPDI-044SC-B-06-08-201104	K2010308-012	J:\gc24\data\112420\11240022.D\	11/24/20 22:53
USMPDI-049SC-B-00-02-201104	K2010308-019	J:\gc24\data\112420\11240023.D\	11/24/20 23:16
USMPDI-049SC-B-02-04-201104	K2010308-020	J:\gc24\data\112420\11240024.D\	11/24/20 23:39
USMPDI-044SC-B-08-10-201104	K2010308-013	J:\gc24\data\112420\11240029.D\	11/25/20 01:33
USMPDI-044SC-B-10-12-201104	K2010308-014	J:\gc24\data\112420\11240030.D\	11/25/20 01:56
USMPDI-044SC-B-12-14-201104	K2010308-015	J:\gc24\data\112420\11240031.D\	11/25/20 02:19
USMPDI-044SC-B-14-16-201104	K2010308-016	J:\gc24\data\112420\11240032.D\	11/25/20 02:41
USMPDI-044SC-B-16-17.3-201104	K2010308-017	J:\gc24\data\112420\11240033.D\	11/25/20 03:04
USMPDI-1044SC-B-02-04-201104	K2010308-018	J:\gc24\data\112420\11240034.D\	11/25/20 03:27

ALS Group USA, Corp.

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 16:25
Date Extracted: 11/10/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank
Lab Code: KQ2017639-04
Analysis Method: 8151A
Prep Method: Method

Instrument ID:K-GC-24
File ID:J:\gc24\data\112420\11240005.D\
Analysis Lot:704970
Extraction Lot:369506

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017639-03	J:\gc24\data\112420\11240006.D\	11/24/20 16:48
USMPDI-049SC-B-04-06-201104	K2010308-021	J:\gc24\data\112420\11240035.D\	11/25/20 03:50
USMPDI-049SC-B-06-08-201104	K2010308-022	J:\gc24\data\112420\11240036.D\	11/25/20 04:13
USMPDI-049SC-B-08-10-201104	K2010308-023	J:\gc24\data\112420\11240037.D\	11/25/20 04:36
USMPDI-049SC-B-10-12-201104	K2010308-024	J:\gc24\data\112420\11240038.D\	11/25/20 04:59
USMPDI-049SC-B-12-14-201104	K2010308-025	J:\gc24\data\112420\11240041.D\	11/25/20 06:08
USMPDI-049SC-B-14-16-201104	K2010308-026	J:\gc24\data\112420\11240042.D\	11/25/20 06:30
USMPDI-049SC-B-14-16-201104MS	KQ2017639-01	J:\gc24\data\112420\11240043.D\	11/25/20 06:53
USMPDI-049SC-B-14-16-201104DMS	KQ2017639-02	J:\gc24\data\112420\11240044.D\	11/25/20 07:16

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 17:11
Date Extracted: 11/10/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank **Instrument ID:** K-GC-24
Lab Code: KQ2017638-04 **File ID:** J:\gc24\data\112420\11240007.D\
Analysis Method: 8151A **Analysis Lot:** 704970
Prep Method: Method **Extraction Lot:** 369505

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-039SC-B-04-06-201104MS	KQ2017638-01	J:\gc24\data\112420\11240025.D\ 	11/24/20 00:02
USMPDI-039SC-B-04-06-201104DMS	KQ2017638-02	J:\gc24\data\112420\11240026.D\ 	11/24/20 00:25
Lab Control Sample	KQ2017638-03	J:\gc24\data\112420\11240008.D\ 	11/24/20 17:34
USMPDI-039SC-B-00-02-201104	K2010308-001	J:\gc24\data\112420\11240009.D\ 	11/24/20 17:57
USMPDI-039SC-B-02-04-201104	K2010308-002	J:\gc24\data\112420\11240010.D\ 	11/24/20 18:20
USMPDI-039SC-B-04-06-201104	K2010308-003	J:\gc24\data\112420\11240011.D\ 	11/24/20 18:42
USMPDI-039SC-B-06-08-201104	K2010308-004	J:\gc24\data\112420\11240012.D\ 	11/24/20 19:05
USMPDI-039SC-B-08-10-201104	K2010308-005	J:\gc24\data\112420\11240013.D\ 	11/24/20 19:28
USMPDI-039SC-B-10-12-201104	K2010308-006	J:\gc24\data\112420\11240014.D\ 	11/24/20 19:51
USMPDI-039SC-B-12-14-201104	K2010308-007	J:\gc24\data\112420\11240017.D\ 	11/24/20 20:59
USMPDI-039SC-B-14-16-201104	K2010308-008	J:\gc24\data\112420\11240018.D\ 	11/24/20 21:22
USMPDI-044SC-B-00-02-201104	K2010308-009	J:\gc24\data\112420\11240019.D\ 	11/24/20 21:45
USMPDI-044SC-B-02-04-201104	K2010308-010	J:\gc24\data\112420\11240020.D\ 	11/24/20 22:08
USMPDI-044SC-B-04-06-201104	K2010308-011	J:\gc24\data\112420\11240021.D\ 	11/24/20 22:30
USMPDI-044SC-B-06-08-201104	K2010308-012	J:\gc24\data\112420\11240022.D\ 	11/24/20 22:53
USMPDI-049SC-B-00-02-201104	K2010308-019	J:\gc24\data\112420\11240023.D\ 	11/24/20 23:16
USMPDI-049SC-B-02-04-201104	K2010308-020	J:\gc24\data\112420\11240024.D\ 	11/24/20 23:39
USMPDI-044SC-B-08-10-201104	K2010308-013	J:\gc24\data\112420\11240029.D\ 	11/25/20 01:33
USMPDI-044SC-B-10-12-201104	K2010308-014	J:\gc24\data\112420\11240030.D\ 	11/25/20 01:56
USMPDI-044SC-B-12-14-201104	K2010308-015	J:\gc24\data\112420\11240031.D\ 	11/25/20 02:19
USMPDI-044SC-B-14-16-201104	K2010308-016	J:\gc24\data\112420\11240032.D\ 	11/25/20 02:41
USMPDI-044SC-B-16-17.3-201104	K2010308-017	J:\gc24\data\112420\11240033.D\ 	11/25/20 03:04
USMPDI-1044SC-B-02-04-201104	K2010308-018	J:\gc24\data\112420\11240034.D\ 	11/25/20 03:27

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 16:25
Date Extracted: 11/10/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name: Method Blank **Instrument ID:** K-GC-24
Lab Code: KQ2017639-04 **File ID:** J:\gc24\data\112420\11240005.D\
Analysis Method: 8151A **Analysis Lot:** 704970
Prep Method: Method **Extraction Lot:** 369506

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017639-03	J:\gc24\data\112420\11240006.D\ 	11/24/20 16:48
USMPDI-049SC-B-04-06-201104	K2010308-021	J:\gc24\data\112420\11240035.D\ 	11/25/20 03:50
USMPDI-049SC-B-06-08-201104	K2010308-022	J:\gc24\data\112420\11240036.D\ 	11/25/20 04:13
USMPDI-049SC-B-08-10-201104	K2010308-023	J:\gc24\data\112420\11240037.D\ 	11/25/20 04:36
USMPDI-049SC-B-10-12-201104	K2010308-024	J:\gc24\data\112420\11240038.D\ 	11/25/20 04:59
USMPDI-049SC-B-12-14-201104	K2010308-025	J:\gc24\data\112420\11240041.D\ 	11/25/20 06:08
USMPDI-049SC-B-14-16-201104	K2010308-026	J:\gc24\data\112420\11240042.D\ 	11/25/20 06:30
USMPDI-049SC-B-14-16-201104MS	KQ2017639-01	J:\gc24\data\112420\11240043.D\ 	11/25/20 06:53
USMPDI-049SC-B-14-16-201104DMS	KQ2017639-02	J:\gc24\data\112420\11240044.D\ 	11/25/20 07:16

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 17:34
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample	Instrument ID: K-GC-24
Lab Code: KQ2017638-03	File ID: J:\gc24\data\112420\11240008.D\
Analysis Method: 8151A	Analysis Lot: 704970
Prep Method: Method	Extraction Lot: 369505

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-039SC-B-04-06-201104MS	KQ2017638-01	J:\gc24\data\112420\11240025.D\	11/24/20 00:02
USMPDI-039SC-B-04-06-201104DMS	KQ2017638-02	J:\gc24\data\112420\11240026.D\	11/24/20 00:25
Method Blank	KQ2017638-04	J:\gc24\data\112420\11240007.D\	11/24/20 17:11
USMPDI-039SC-B-00-02-201104	K2010308-001	J:\gc24\data\112420\11240009.D\	11/24/20 17:57
USMPDI-039SC-B-02-04-201104	K2010308-002	J:\gc24\data\112420\11240010.D\	11/24/20 18:20
USMPDI-039SC-B-04-06-201104	K2010308-003	J:\gc24\data\112420\11240011.D\	11/24/20 18:42
USMPDI-039SC-B-06-08-201104	K2010308-004	J:\gc24\data\112420\11240012.D\	11/24/20 19:05
USMPDI-039SC-B-08-10-201104	K2010308-005	J:\gc24\data\112420\11240013.D\	11/24/20 19:28
USMPDI-039SC-B-10-12-201104	K2010308-006	J:\gc24\data\112420\11240014.D\	11/24/20 19:51
USMPDI-039SC-B-12-14-201104	K2010308-007	J:\gc24\data\112420\11240017.D\	11/24/20 20:59
USMPDI-039SC-B-14-16-201104	K2010308-008	J:\gc24\data\112420\11240018.D\	11/24/20 21:22
USMPDI-044SC-B-00-02-201104	K2010308-009	J:\gc24\data\112420\11240019.D\	11/24/20 21:45
USMPDI-044SC-B-02-04-201104	K2010308-010	J:\gc24\data\112420\11240020.D\	11/24/20 22:08
USMPDI-044SC-B-04-06-201104	K2010308-011	J:\gc24\data\112420\11240021.D\	11/24/20 22:30
USMPDI-044SC-B-06-08-201104	K2010308-012	J:\gc24\data\112420\11240022.D\	11/24/20 22:53
USMPDI-049SC-B-00-02-201104	K2010308-019	J:\gc24\data\112420\11240023.D\	11/24/20 23:16
USMPDI-049SC-B-02-04-201104	K2010308-020	J:\gc24\data\112420\11240024.D\	11/24/20 23:39
USMPDI-044SC-B-08-10-201104	K2010308-013	J:\gc24\data\112420\11240029.D\	11/25/20 01:33
USMPDI-044SC-B-10-12-201104	K2010308-014	J:\gc24\data\112420\11240030.D\	11/25/20 01:56
USMPDI-044SC-B-12-14-201104	K2010308-015	J:\gc24\data\112420\11240031.D\	11/25/20 02:19
USMPDI-044SC-B-14-16-201104	K2010308-016	J:\gc24\data\112420\11240032.D\	11/25/20 02:41
USMPDI-044SC-B-16-17.3-201104	K2010308-017	J:\gc24\data\112420\11240033.D\	11/25/20 03:04
USMPDI-1044SC-B-02-04-201104	K2010308-018	J:\gc24\data\112420\11240034.D\	11/25/20 03:27

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 16:48
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample
Lab Code: KQ2017639-03
Analysis Method: 8151A
Prep Method: Method

Instrument ID: K-GC-24
File ID: J:\gc24\data\112420\11240006.D\
Analysis Lot: 704970
Extraction Lot: 369506

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2017639-04	J:\gc24\data\112420\11240005.D\	11/24/20 16:25
USMPDI-049SC-B-04-06-201104	K2010308-021	J:\gc24\data\112420\11240035.D\	11/25/20 03:50
USMPDI-049SC-B-06-08-201104	K2010308-022	J:\gc24\data\112420\11240036.D\	11/25/20 04:13
USMPDI-049SC-B-08-10-201104	K2010308-023	J:\gc24\data\112420\11240037.D\	11/25/20 04:36
USMPDI-049SC-B-10-12-201104	K2010308-024	J:\gc24\data\112420\11240038.D\	11/25/20 04:59
USMPDI-049SC-B-12-14-201104	K2010308-025	J:\gc24\data\112420\11240041.D\	11/25/20 06:08
USMPDI-049SC-B-14-16-201104	K2010308-026	J:\gc24\data\112420\11240042.D\	11/25/20 06:30
USMPDI-049SC-B-14-16-201104MS	KQ2017639-01	J:\gc24\data\112420\11240043.D\	11/25/20 06:53
USMPDI-049SC-B-14-16-201104DMS	KQ2017639-02	J:\gc24\data\112420\11240044.D\	11/25/20 07:16

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 17:34
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample **Instrument ID:** K-GC-24
Lab Code: KQ2017638-03 **File ID:** J:\gc24\data\112420\11240008.D\
Analysis Method: 8151A **Analysis Lot:** 704970
Prep Method: Method **Extraction Lot:** 369505

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-039SC-B-04-06-201104MS	KQ2017638-01	J:\gc24\data\112420\11240025.D\	11/24/20 00:02
USMPDI-039SC-B-04-06-201104DMS	KQ2017638-02	J:\gc24\data\112420\11240026.D\	11/24/20 00:25
Method Blank	KQ2017638-04	J:\gc24\data\112420\11240007.D\	11/24/20 17:11
USMPDI-039SC-B-00-02-201104	K2010308-001	J:\gc24\data\112420\11240009.D\	11/24/20 17:57
USMPDI-039SC-B-02-04-201104	K2010308-002	J:\gc24\data\112420\11240010.D\	11/24/20 18:20
USMPDI-039SC-B-04-06-201104	K2010308-003	J:\gc24\data\112420\11240011.D\	11/24/20 18:42
USMPDI-039SC-B-06-08-201104	K2010308-004	J:\gc24\data\112420\11240012.D\	11/24/20 19:05
USMPDI-039SC-B-08-10-201104	K2010308-005	J:\gc24\data\112420\11240013.D\	11/24/20 19:28
USMPDI-039SC-B-10-12-201104	K2010308-006	J:\gc24\data\112420\11240014.D\	11/24/20 19:51
USMPDI-039SC-B-12-14-201104	K2010308-007	J:\gc24\data\112420\11240017.D\	11/24/20 20:59
USMPDI-039SC-B-14-16-201104	K2010308-008	J:\gc24\data\112420\11240018.D\	11/24/20 21:22
USMPDI-044SC-B-00-02-201104	K2010308-009	J:\gc24\data\112420\11240019.D\	11/24/20 21:45
USMPDI-044SC-B-02-04-201104	K2010308-010	J:\gc24\data\112420\11240020.D\	11/24/20 22:08
USMPDI-044SC-B-04-06-201104	K2010308-011	J:\gc24\data\112420\11240021.D\	11/24/20 22:30
USMPDI-044SC-B-06-08-201104	K2010308-012	J:\gc24\data\112420\11240022.D\	11/24/20 22:53
USMPDI-049SC-B-00-02-201104	K2010308-019	J:\gc24\data\112420\11240023.D\	11/24/20 23:16
USMPDI-049SC-B-02-04-201104	K2010308-020	J:\gc24\data\112420\11240024.D\	11/24/20 23:39
USMPDI-044SC-B-08-10-201104	K2010308-013	J:\gc24\data\112420\11240029.D\	11/25/20 01:33
USMPDI-044SC-B-10-12-201104	K2010308-014	J:\gc24\data\112420\11240030.D\	11/25/20 01:56
USMPDI-044SC-B-12-14-201104	K2010308-015	J:\gc24\data\112420\11240031.D\	11/25/20 02:19
USMPDI-044SC-B-14-16-201104	K2010308-016	J:\gc24\data\112420\11240032.D\	11/25/20 02:41
USMPDI-044SC-B-16-17.3-201104	K2010308-017	J:\gc24\data\112420\11240033.D\	11/25/20 03:04
USMPDI-1044SC-B-02-04-201104	K2010308-018	J:\gc24\data\112420\11240034.D\	11/25/20 03:27

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308
Date Analyzed: 11/24/20 16:48
Date Extracted: 11/10/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name: Lab Control Sample **Instrument ID:** K-GC-24
Lab Code: KQ2017639-03 **File ID:** J:\gc24\data\112420\11240006.D\
Analysis Method: 8151A **Analysis Lot:** 704970
Prep Method: Method **Extraction Lot:** 369506

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2017639-04	J:\gc24\data\112420\11240005.D\	11/24/20 16:25
USMPDI-049SC-B-04-06-201104	K2010308-021	J:\gc24\data\112420\11240035.D\	11/25/20 03:50
USMPDI-049SC-B-06-08-201104	K2010308-022	J:\gc24\data\112420\11240036.D\	11/25/20 04:13
USMPDI-049SC-B-08-10-201104	K2010308-023	J:\gc24\data\112420\11240037.D\	11/25/20 04:36
USMPDI-049SC-B-10-12-201104	K2010308-024	J:\gc24\data\112420\11240038.D\	11/25/20 04:59
USMPDI-049SC-B-12-14-201104	K2010308-025	J:\gc24\data\112420\11240041.D\	11/25/20 06:08
USMPDI-049SC-B-14-16-201104	K2010308-026	J:\gc24\data\112420\11240042.D\	11/25/20 06:30
USMPDI-049SC-B-14-16-201104MS	KQ2017639-01	J:\gc24\data\112420\11240043.D\	11/25/20 06:53
USMPDI-049SC-B-14-16-201104DMS	KQ2017639-02	J:\gc24\data\112420\11240044.D\	11/25/20 07:16

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	2.115E4	02	22.550	2.015E4	03	67.600	1.798E4	04	90.200	1.794E4
05	112.730	1.738E4	06	135.280	1.732E4	07	157.830	1.694E4	08	180.370	1.67E4

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	2.8	20	9.368E4	
2,4-D	TRG	Average RF	% RSD	9.3	20	2.124E4	
DCAA	SURR	Average RF	% RSD	8.8	20	1.82E4	

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Acquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte

2,4,5-TP

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	2.358E5	02	23.760	2.178E5	03	71.300	1.953E5	04	95.100	1.956E5
05	118.820	1.949E5	06	142.580	1.947E5	07	166.340	1.946E5	08	190.100	1.952E5

2,4-D

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	6.995E4	02	23.510	5.929E4	03	70.500	4.845E4	04	94.000	4.767E4
05	117.540	4.681E4	06	141.050	4.616E4	07	164.560	4.575E4	08	188.060	4.551E4

DCAA

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.587E4	02	22.550	4.943E4	03	67.600	4.041E4	04	90.200	3.953E4
05	112.730	3.892E4	06	135.280	3.822E4	07	157.830	3.814E4	08	180.370	3.787E4

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

**Initial Calibration Summary
Chlorinated Herbicides by GC**

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

Analyte Name	Compound Type	Calibration Evaluation				Calibration Evaluation	
		Fit Type	Eval	Eval Result	Control Criteria	Average RRF	Minimum RRF
2,4,5-TP	TRG	Average RF	% RSD	7.6	20	2.03E5	
2,4-D	TRG	Average RF	% RSD	17.2	20	5.12E4	
DCAA	SURR	Average RF	% RSD	15.8	20	4.23E4	

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: RTX-CLP2

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	93.4	9.368E4	9.198E4	-1.819	±20	Average RF
2,4-D	94.0	90.4	2.124E4	2.043E4	-3.805	±20	Average RF

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Calibration Date: 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566
Instrument ID: K-GC-24

Signal ID: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Acquisition Date
09	KC2000566-09	PENTA2-15E ICV 100 PPB	J:\gc24\data\102120\10210012.D	10/21/2020 16:56

Analyte Name	Expected	Result	Average RF	SSV RF	% D	Criteria	Curve Fit
2,4,5-TP	95.1	92.5	2.03E5	1.974E5	-2.734	±20	Average RF
2,4-D	94.0	83.6	5.12E4	4.556E4	-11.018	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 15:40

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240003.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	89.0	9.368E4	8.767E4	-6.4	NA	±20	Average RF
2,4-D	94.0	86.5	2.124E4	1.954E4	-8.0	NA	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 15:40

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240003.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	110	2.03E5	2.339E5	15.2	NA	±20	Average RF
2,4-D	94.0	103	5.12E4	5.627E4	9.9	NA	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 20:14

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240015.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	89.1	9.368E4	8.781E4	-6.3	NA	±20	Average RF
2,4-D	94.0	85.7	2.124E4	1.935E4	-8.9	NA	±20	Average RF

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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 20:14

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240015.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	113	2.03E5	2.419E5	19.2	NA	±20	Average RF
2,4-D	94.0	106	5.12E4	5.756E4	12.4	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 00:48

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240027.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	83.0	9.368E4	8.177E4	-12.7	NA	±20	Average RF
2,4-D	94.0	79.6	2.124E4	1.799E4	-15.3	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/24/20 00:48

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240027.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	107	2.03E5	2.286E5	12.6	NA	±20	Average RF
2,4-D	94.0	100	5.12E4	5.45E4	6.5	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/25/20 05:22

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240039.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	84.3	9.368E4	8.308E4	-11.3	NA	±20	Average RF
2,4-D	94.0	80.1	2.124E4	1.811E4	-14.7	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/25/20 05:22

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240039.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	106	2.03E5	2.254E5	11.0	NA	±20	Average RF
2,4-D	94.0	97.5	5.12E4	5.312E4	3.7	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/25/20 07:39

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240045.D\
Signal ID: RTX-CLP2

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	83.7	9.368E4	8.247E4	-12.0	NA	±20	Average RF
2,4-D	94.0	79.3	2.124E4	1.791E4	-15.7	NA	±20	Average RF

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request: K2010308
Date Analyzed: 11/25/20 07:39

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method: 8151A
File ID: J:\gc24\data\112420\11240045.D\
Signal ID: ZB-XLB-HT

Calibration Date: 10/21/2020
Calibration ID: KC2000566
Analysis Lot: 704970
Units: ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	104	2.03E5	2.211E5	8.9	NA	±20	Average RF
2,4-D	94.0	95.7	5.12E4	5.213E4	1.8	NA	±20	Average RF

ALS Group USA, Corp.
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QA/QC Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings

Service Request:K2010308

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A

Analysis Lot:704970

Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\112420\11240025.D	USMPDI-039SC-B-04-06-201104 MS	KQ2017638-01	11/24/2020	00:02:00	
J:\gc24\data\112420\11240026.D	USMPDI-039SC-B-04-06-201104 DMS	KQ2017638-02	11/24/2020	00:25:00	
J:\gc24\data\112420\11240027.D	Continuing Calibration Verification	KQ2018825-05	11/24/2020	00:48:00	
J:\gc24\data\112420\11240003.D	Continuing Calibration Verification	KQ2018825-01	11/24/2020	15:40:00	
J:\gc24\data\112420\11240004.D	Continuing Calibration Blank	KQ2018825-02	11/24/2020	16:03:00	
J:\gc24\data\112420\11240005.D	Method Blank	KQ2017639-04	11/24/2020	16:25:00	
J:\gc24\data\112420\11240006.D	Lab Control Sample	KQ2017639-03	11/24/2020	16:48:00	
J:\gc24\data\112420\11240007.D	Method Blank	KQ2017638-04	11/24/2020	17:11:00	
J:\gc24\data\112420\11240008.D	Lab Control Sample	KQ2017638-03	11/24/2020	17:34:00	
J:\gc24\data\112420\11240009.D	USMPDI-039SC-B-00-02-201104	K2010308-001	11/24/2020	17:57:00	
J:\gc24\data\112420\11240010.D	USMPDI-039SC-B-02-04-201104	K2010308-002	11/24/2020	18:20:00	
J:\gc24\data\112420\11240011.D	USMPDI-039SC-B-04-06-201104	K2010308-003	11/24/2020	18:42:00	
J:\gc24\data\112420\11240012.D	USMPDI-039SC-B-06-08-201104	K2010308-004	11/24/2020	19:05:00	
J:\gc24\data\112420\11240013.D	USMPDI-039SC-B-08-10-201104	K2010308-005	11/24/2020	19:28:00	
J:\gc24\data\112420\11240014.D	USMPDI-039SC-B-10-12-201104	K2010308-006	11/24/2020	19:51:00	
J:\gc24\data\112420\11240015.D	Continuing Calibration Verification	KQ2018825-03	11/24/2020	20:14:00	
J:\gc24\data\112420\11240016.D	Continuing Calibration Blank	KQ2018825-04	11/24/2020	20:36:00	
J:\gc24\data\112420\11240017.D	USMPDI-039SC-B-12-14-201104	K2010308-007	11/24/2020	20:59:00	
J:\gc24\data\112420\11240018.D	USMPDI-039SC-B-14-16-201104	K2010308-008	11/24/2020	21:22:00	
J:\gc24\data\112420\11240019.D	USMPDI-044SC-B-00-02-201104	K2010308-009	11/24/2020	21:45:00	
J:\gc24\data\112420\11240020.D	USMPDI-044SC-B-02-04-201104	K2010308-010	11/24/2020	22:08:00	
J:\gc24\data\112420\11240021.D	USMPDI-044SC-B-04-06-201104	K2010308-011	11/24/2020	22:30:00	
J:\gc24\data\112420\11240022.D	USMPDI-044SC-B-06-08-201104	K2010308-012	11/24/2020	22:53:00	
J:\gc24\data\112420\11240023.D	USMPDI-049SC-B-00-02-201104	K2010308-019	11/24/2020	23:16:00	
J:\gc24\data\112420\11240024.D	USMPDI-049SC-B-02-04-201104	K2010308-020	11/24/2020	23:39:00	
J:\gc24\data\112420\11240028.D	Continuing Calibration Blank	KQ2018825-06	11/25/2020	01:10:00	
J:\gc24\data\112420\11240029.D	USMPDI-044SC-B-08-10-201104	K2010308-013	11/25/2020	01:33:00	
J:\gc24\data\112420\11240030.D	USMPDI-044SC-B-10-12-201104	K2010308-014	11/25/2020	01:56:00	
J:\gc24\data\112420\11240031.D	USMPDI-044SC-B-12-14-201104	K2010308-015	11/25/2020	02:19:00	
J:\gc24\data\112420\11240032.D	USMPDI-044SC-B-14-16-201104	K2010308-016	11/25/2020	02:41:00	
J:\gc24\data\112420\11240033.D	USMPDI-044SC-B-16-17.3-201104	K2010308-017	11/25/2020	03:04:00	
J:\gc24\data\112420\11240034.D	USMPDI-1044SC-B-02-04-201104	K2010308-018	11/25/2020	03:27:00	
J:\gc24\data\112420\11240035.D	USMPDI-049SC-B-04-06-201104	K2010308-021	11/25/2020	03:50:00	
J:\gc24\data\112420\11240036.D	USMPDI-049SC-B-06-08-201104	K2010308-022	11/25/2020	04:13:00	
J:\gc24\data\112420\11240037.D	USMPDI-049SC-B-08-10-201104	K2010308-023	11/25/2020	04:36:00	
J:\gc24\data\112420\11240038.D	USMPDI-049SC-B-10-12-201104	K2010308-024	11/25/2020	04:59:00	
J:\gc24\data\112420\11240039.D	Continuing Calibration Verification	KQ2018825-07	11/25/2020	05:22:00	
J:\gc24\data\112420\11240040.D	Continuing Calibration Blank	KQ2018825-08	11/25/2020	05:45:00	
J:\gc24\data\112420\11240041.D	USMPDI-049SC-B-12-14-201104	K2010308-025	11/25/2020	06:08:00	
J:\gc24\data\112420\11240042.D	USMPDI-049SC-B-14-16-201104	K2010308-026	11/25/2020	06:30:00	
J:\gc24\data\112420\11240043.D	USMPDI-049SC-B-14-16-201104 MS	KQ2017639-01	11/25/2020	06:53:00	
J:\gc24\data\112420\11240044.D	USMPDI-049SC-B-14-16-201104 DMS	KQ2017639-02	11/25/2020	07:16:00	
J:\gc24\data\112420\11240045.D	Continuing Calibration Verification	KQ2018825-09	11/25/2020	07:39:00	
J:\gc24\data\112420\11240046.D	Continuing Calibration Blank	KQ2018825-10	11/25/2020	08:02:00	

ALS Group USA, Corp.
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Prep Summary Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request: K2010308

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 369505
Extraction Date: 11/10/20 09:32

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-039SC-B-00-02-201104	K2010308-001	11/4/20	11/6/20	30.233 g	50 mL	62.3
USMPDI-039SC-B-02-04-201104	K2010308-002	11/4/20	11/6/20	30.021 g	50 mL	76.7
USMPDI-039SC-B-04-06-201104	K2010308-003	11/4/20	11/6/20	30.182 g	50 mL	83.0
USMPDI-039SC-B-06-08-201104	K2010308-004	11/4/20	11/6/20	30.126 g	50 mL	80.0
USMPDI-039SC-B-08-10-201104	K2010308-005	11/4/20	11/6/20	30.346 g	50 mL	77.6
USMPDI-039SC-B-10-12-201104	K2010308-006	11/4/20	11/6/20	30.221 g	50 mL	74.5
USMPDI-039SC-B-12-14-201104	K2010308-007	11/4/20	11/6/20	30.122 g	50 mL	87.4
USMPDI-039SC-B-14-16-201104	K2010308-008	11/4/20	11/6/20	30.023 g	50 mL	79.7
USMPDI-044SC-B-00-02-201104	K2010308-009	11/4/20	11/6/20	30.010 g	50 mL	45.5
USMPDI-044SC-B-02-04-201104	K2010308-010	11/4/20	11/6/20	30.112 g	50 mL	51.8
USMPDI-044SC-B-04-06-201104	K2010308-011	11/4/20	11/6/20	30.071 g	50 mL	52.8
USMPDI-044SC-B-06-08-201104	K2010308-012	11/4/20	11/6/20	30.099 g	50 mL	55.6
USMPDI-044SC-B-08-10-201104	K2010308-013	11/4/20	11/6/20	30.253 g	50 mL	55.4
USMPDI-044SC-B-10-12-201104	K2010308-014	11/4/20	11/6/20	30.055 g	50 mL	58.3
USMPDI-044SC-B-12-14-201104	K2010308-015	11/4/20	11/6/20	30.317 g	50 mL	56.2
USMPDI-044SC-B-14-16-201104	K2010308-016	11/4/20	11/6/20	30.395 g	50 mL	58.9
USMPDI-044SC-B-16-17.3-201104	K2010308-017	11/4/20	11/6/20	30.355 g	50 mL	70.6
USMPDI-1044SC-B-02-04-201104	K2010308-018	11/4/20	11/6/20	30.297 g	50 mL	52.6
USMPDI-049SC-B-00-02-201104	K2010308-019	11/4/20	11/6/20	30.135 g	50 mL	44.4
USMPDI-049SC-B-02-04-201104	K2010308-020	11/4/20	11/6/20	30.246 g	50 mL	50.2
Matrix Spike	KQ2017638-01MS	11/4/20	11/6/20	30.145 g	50 mL	83.0
Duplicate Matrix Spike	KQ2017638-02DMS	11/4/20	11/6/20	30.038 g	50 mL	83.0
Lab Control Sample	KQ2017638-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017638-04MB	NA	NA	30.3950 g	50 mL	

ALS Group USA, Corp.
dba ALS Environmental

Prep Summary Report

Client: Anchor QEA, LLC
Project: GascoSiltromic: US Moorings
Sample Matrix: Sediment

Service Request:K2010308

Chlorinated Herbicides by GC

Prep Method: Method
Analytical Method: 8151A

Extraction Lot: 369506
Extraction Date: 11/10/20 09:34

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-049SC-B-04-06-201104	K2010308-021	11/4/20	11/6/20	30.195 g	50 mL	56.2
USMPDI-049SC-B-06-08-201104	K2010308-022	11/4/20	11/6/20	30.132 g	50 mL	54.6
USMPDI-049SC-B-08-10-201104	K2010308-023	11/4/20	11/6/20	30.173 g	50 mL	57.9
USMPDI-049SC-B-10-12-201104	K2010308-024	11/4/20	11/6/20	30.287 g	50 mL	57.8
USMPDI-049SC-B-12-14-201104	K2010308-025	11/4/20	11/6/20	30.135 g	50 mL	56.9
USMPDI-049SC-B-14-16-201104	K2010308-026	11/4/20	11/6/20	30.064 g	50 mL	56.3
Matrix Spike	KQ2017639-01MS	11/4/20	11/6/20	30.040 g	50 mL	56.3
Duplicate Matrix Spike	KQ2017639-02DMS	11/4/20	11/6/20	30.185 g	50 mL	56.3
Lab Control Sample	KQ2017639-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017639-04MB	NA	NA	30.2870 g	50 mL	



Raw Data

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com



Total Solids

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Analytical Results Summary

Instrument Name: K-Balance-41

Analyst: BNETLING

Analysis Lot: 704374

Method/Testcode: SM 2540 G/T/S

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2010308-001	Solids, Total	N/A		Sediment	62.30 Percent	41.5088 g	62.3 Percent	1					11/19/20 18:00:00	N	IV
K2010308-002	Solids, Total	N/A		Sediment	76.70 Percent	29.2694 g	76.7 Percent	1					11/19/20 18:00:00	N	IV
K2010308-003	Solids, Total	N/A		Sediment	83.00 Percent	27.0248 g	83.0 Percent	1					11/19/20 18:00:00	Y	IV
K2010308-004	Solids, Total	N/A		Sediment	80.00 Percent	34.6661 g	80.0 Percent	1					11/19/20 18:00:00	N	IV
K2010308-005	Solids, Total	N/A		Sediment	77.60 Percent	29.2349 g	77.6 Percent	1					11/19/20 18:00:00	N	IV
K2010308-006	Solids, Total	N/A		Sediment	74.50 Percent	36.2530 g	74.5 Percent	1					11/19/20 18:00:00	N	IV
K2010308-007	Solids, Total	N/A		Sediment	87.40 Percent	30.7003 g	87.4 Percent	1					11/19/20 18:00:00	N	IV
K2010308-008	Solids, Total	N/A		Sediment	79.70 Percent	34.3937 g	79.7 Percent	1					11/19/20 18:00:00	N	IV
K2010308-009	Solids, Total	N/A		Sediment	45.50 Percent	35.0539 g	45.5 Percent	1					11/19/20 18:00:00	N	IV
K2010308-010	Solids, Total	N/A		Sediment	51.80 Percent	25.6559 g	51.8 Percent	1					11/19/20 18:00:00	N	IV
K2010308-011	Solids, Total	N/A		Sediment	52.80 Percent	36.5026 g	52.8 Percent	1					11/19/20 18:00:00	N	IV
K2010308-012	Solids, Total	N/A		Sediment	55.60 Percent	38.6648 g	55.6 Percent	1					11/19/20 18:00:00	N	IV
K2010308-013	Solids, Total	N/A		Sediment	55.40 Percent	31.6150 g	55.4 Percent	1					11/19/20 18:00:00	N	IV
K2010308-014	Solids, Total	N/A		Sediment	58.30 Percent	31.2093 g	58.3 Percent	1					11/19/20 18:00:00	N	IV
K2010308-015	Solids, Total	N/A		Sediment	56.20 Percent	30.6082 g	56.2 Percent	1					11/19/20 18:00:00	N	IV
K2010308-016	Solids, Total	N/A		Sediment	58.90 Percent	28.1702 g	58.9 Percent	1					11/19/20 18:00:00	N	IV
K2010309-021	Solids, Total	N/A		Sediment	60.10 Percent	36.3168 g	60.1 Percent	1					11/19/20 18:00:00	N	IV
K2010309-022	Solids, Total	N/A		Sediment	60.40 Percent	32.5426 g	60.4 Percent	1					11/19/20 18:00:00	N	IV
K2010309-023	Solids, Total	N/A		Sediment	64.90 Percent	36.9545 g	64.9 Percent	1					11/19/20 18:00:00	N	IV
K2010309-024	Solids, Total	N/A		Sediment	71.30 Percent	35.9018 g	71.3 Percent	1					11/19/20 18:00:00	N	IV
KQ2018473-01	Solids, Total	DUP	K2010308-003	Sediment	82.90 Percent	25.1253 g	82.9 Percent	1				<1	11/19/20 18:00:00	N	IV
KQ2018473-02	Solids, Total	DUP	K2010308-016	Sediment	58.40 Percent	32.0359 g	58.4 Percent	1				<1	11/19/20 18:00:00	N	IV
KQ2018473-03	Solids, Total	MB		Sediment	0.00 Percent	49.8185 g	0.0 Percent	1					11/19/20 18:00:00	N	IV

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

**ALS Group USA, Corp.
dba ALS Environmental**

Work Order #: K2010309, K2010308


Analysis: Total Solids / Volatile Solids

Method: SM 2540 G

Run: 704374

Matrix: Soil/Solids


Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	19:05	11/19/2020	8:20	11/20/2020
105	10:00	11/20/2020	11:55	11/20/2020
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Analyzed By:	BN	Date Analyzed:	11/19/2020
Reviewed By:		Date Reviewed:	11/23/20

ALS Group USA, Corp. dba ALS Environmental

Work Order #: K2010309, K2010308 Method: SM 2540 G
 Run: 704374
 Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9960	100.0%	CCV1	9.9989	100.0%	11/19/2020
CCV2	199.9959	100.0%	CCV2	9.9988	100.0%	11/19/2020
CCV3	199.9958	100.0%	CCV3	9.9986	100.0%	11/20/2020
CCV4	199.9956	100.0%	CCV4	9.9985	100.0%	11/20/2020
CCV5	199.9960	100.0%	CCV5	9.9990	100.0%	11/20/2020
CCV6	199.9960	100.0%	CCV6	9.9988	100.0%	11/20/2020
CCV7		0.0%	CCV7		0.0%	
CCV8		0.0%	CCV8		0.0%	
CCV9		0.0%	CCV9		0.0%	
CCV10		0.0%	CCV10		0.0%	
CCV11		0.0%	CCV11		0.0%	
CCV12		0.0%	CCV12		0.0%	
CCV13		0.0%	CCV13		0.0%	
CCV14		0.0%	CCV14		0.0%	
CCV15		0.0%	CCV15		0.0%	
CCV16		0.0%	CCV16		0.0%	
CCV17		0.0%	CCV17		0.0%	
CCV18		0.0%	CCV18		0.0%	
CCV19		0.0%	CCV19		0.0%	
CCV20		0.0%	CCV20		0.0%	

Analyzed By:	BN	Date Analyzed:	11/19/2020
Reviewed By:		Date Reviewed:	11/23/20

Analytical Results Summary

Instrument Name: K-Balance-41

Analyst: BENFLING

Analysis Lot: 704606

Method/Testcode: SM 2540 G/T/S

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
K2010308-017	Solids, Total	N/A		Sediment	70.60 Percent	32.3407 g	70.6 Percent	1					11/20/20 17:55:00	N IV
K2010308-018	Solids, Total	N/A		Sediment	52.60 Percent	33.0076 g	52.6 Percent	1					11/20/20 17:55:00	N IV
K2010308-019	Solids, Total	N/A		Sediment	44.40 Percent	39.7280 g	44.4 Percent	1					11/20/20 17:55:00	N IV
K2010308-020	Solids, Total	N/A		Sediment	50.20 Percent	27.6011 g	50.2 Percent	1					11/20/20 17:55:00	N IV
K2010308-021	Solids, Total	N/A		Sediment	56.20 Percent	30.6939 g	56.2 Percent	1					11/20/20 17:55:00	N IV
K2010308-022	Solids, Total	N/A		Sediment	54.60 Percent	35.9972 g	54.6 Percent	1					11/20/20 17:55:00	N IV
K2010308-023	Solids, Total	N/A		Sediment	57.90 Percent	35.6295 g	57.9 Percent	1					11/20/20 17:55:00	N IV
K2010308-024	Solids, Total	N/A		Sediment	57.80 Percent	30.2570 g	57.8 Percent	1					11/20/20 17:55:00	N IV
K2010308-025	Solids, Total	N/A		Sediment	56.90 Percent	31.6584 g	56.9 Percent	1					11/20/20 17:55:00	N IV
K2010308-026	Solids, Total	N/A		Sediment	56.30 Percent	27.1448 g	56.3 Percent	1					11/20/20 17:55:00	N IV
K2010401-001	Solids, Total	N/A		Sediment	56.10 Percent	31.4336 g	56.1 Percent	1					11/20/20 17:55:00	N IV
K2010401-002	Solids, Total	N/A		Sediment	57.80 Percent	29.9907 g	57.8 Percent	1					11/20/20 17:55:00	N IV
K2010401-003	Solids, Total	N/A		Sediment	48.40 Percent	31.8326 g	48.4 Percent	1					11/20/20 17:55:00	N IV
K2010403-001	Solids, Total	N/A		Sediment	79.70 Percent	34.7751 g	79.7 Percent	1					11/20/20 17:55:00	N IV
K2010403-002	Solids, Total	N/A		Sediment	88.80 Percent	25.3993 g	88.8 Percent	1					11/20/20 17:55:00	N IV
K2010403-003	Solids, Total	N/A		Sediment	68.20 Percent	36.370 g	68.2 Percent	1					11/20/20 17:55:00	N IV
K2010403-004	Solids, Total	N/A		Sediment	87.30 Percent	26.5273 g	87.3 Percent	1					11/20/20 17:55:00	Y IV
K2010403-005	Solids, Total	N/A		Sediment	79.80 Percent	29.1680 g	79.8 Percent	1					11/20/20 17:55:00	N IV
K2010403-006	Solids, Total	N/A		Sediment	77.80 Percent	32.8826 g	77.8 Percent	1					11/20/20 17:55:00	N IV
K2010403-007	Solids, Total	N/A		Sediment	73.00 Percent	40.0729 g	73.0 Percent	1					11/20/20 17:55:00	N IV
KQ2018600-01	Solids, Total	DUP	K2010308-020	Sediment	50.80 Percent	30.2580 g	50.8 Percent	1				1	11/20/20 17:55:00	N IV
KQ2018600-02	Solids, Total	DUP	K2010403-004	Sediment	87.10 Percent	26.5051 g	87.1 Percent	1				<1	11/20/20 17:55:00	N IV
KQ2018600-03	Solids, Total	MB		Sediment	0.00 Percent	49.7612 g	0.0 Percent	1					11/20/20 17:55:00	N IV

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010308, 10402, 10403

Method: SM 2540 G
Run: 704606

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Sample Number		MB	308-17	308-18	308-19	308-20	308-20DUP
Crucible Number		BEN	AUG	9	3	18	408
Sample Weight		49.7642	32.3407	33.0076	39.7280	27.6011	30.2580
Tare Weight	Date	45.7068	75.0790	52.9497	50.2545	50.6224	76.6106
Tare + Dry Wt. (1)	11/23/2020	45.7070	97.8782	70.2851	67.8912	64.4693	91.9788
Tare + Dry Wt. (2)	11/23/2020	45.7068	97.8980	70.3021	67.9116	64.4889	91.9951
Tare + Ash Wt. (1)		/	/	/	/	/	/
Tare + Ash Wt. (2)		/	/	/	/	/	/
Total Solids		0.0%	70.6%	52.6%	44.4%	50.2%	50.8%
Volatile Solids		#DIV/0!	429.0%	405.1%	384.6%	465.1%	598.0%

Sample Number		308-21	308-22	308-23	308-24	308-25	308-26
Crucible Number		GWEN	MURPHY	3U	SIERRA	SQUANCH	15
Sample Weight		30.6939	35.9972	35.6295	30.2570	31.6584	27.1448
Tare Weight	Date	52.0889	52.7842	57.2160	51.5694	52.7346	51.0862
Tare + Dry Wt. (1)	11/23/2020	69.3208	72.4000	77.8138	69.0444	70.7292	66.3588
Tare + Dry Wt. (2)	11/23/2020	69.3395	72.4237	77.8384	69.0603	70.7457	66.3779
Tare + Ash Wt. (1)		/	/	/	/	/	/
Tare + Ash Wt. (2)		/	/	/	/	/	/
Total Solids		56.2%	54.6%	57.9%	57.8%	56.9%	56.3%
Volatile Solids		402.0%	368.8%	377.4%	394.8%	392.8%	434.1%

% Total Solids = (Tare + Dry Wt. - Tare / Sample Weight)

% Volatile Solids = (Dry Wt. - Ash Wt. / Dry Sample Weight)

Comments:

105 oven: K - OVEN 07

550 oven: K -Furnace-01 K-Balance- 41

Analyzed By:	BN	Date:	11/20/2020
Reviewed By:		Date:	11/25/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010308, 10402, 10403

Method: SM 2540 G
Run: 704606

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Sample Number	401-01	401-02	401-03	403-01	403-02	403-03
Crucible Number	TYLER	10	22	1	7MM	SNOW
Sample Weight	31.4336	29.9907	31.8326	34.7751	25.3993	36.3704
Tare Weight	Date	50.7345	52.8170	51.8722	51.2288	60.9688
Tare + Dry Wt. (1)	11/23/2020	68.3465	70.1458	67.2630	78.9159	83.5108
Tare + Dry Wt. (2)	11/23/2020	68.3648	70.1627	67.2749	78.9305	83.5215
Tare + Ash Wt. (1)						
Tare + Ash Wt. (2)						
Total Solids		56.1%	57.8%	48.4%	79.7%	88.8%
Volatile Solids		387.8%	404.5%	436.8%	284.9%	370.3%
						68.2%
						314.0%

Sample Number	403-04	403-04DUP	403-05	403--06	403-07	
Crucible Number	4	17	M14	23	7	
Sample Weight	26.5273	26.5051	29.1680	32.8826	40.0729	
Tare Weight	Date	52.6093	51.6513	76.0457	52.9446	54.4661
Tare + Dry Wt. (1)	11/23/2020	75.7559	74.7234	99.3276	78.5206	83.7180
Tare + Dry Wt. (2)	11/23/2020	75.7697	74.7348	99.3350	78.5389	83.7390
Tare + Ash Wt. (1)						
Tare + Ash Wt. (2)						
Total Solids		87.3%	87.1%	79.8%	77.8%	73.0%
Volatile Solids		327.2%	323.8%	426.5%	306.9%	286.1%
						#DIV/0!
						#DIV/0!

% Total Solids = (Tare + Dry Wt. - Tare / Sample Weight)

% Volatile Solids = (Dry Wt. - Ash Wt. / Dry Sample Weight)

Comments:

105 oven: K - OVEN 07
550 oven: K -Furnace-01

K-Balance- 41

Analyzed By: BN	Date: 11/20/2020
Reviewed By: Jc	Date: 11/23/20

ALS Group USA, Corp. dba ALS Environmental

Work Order #: K2010308, 10402, 10403

Method: SM 2540 G

Run: 704606

Analysis: Total Solids / Volatile Solids

Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	17:55	11/20/2020	8:15	11/23/2020
105	9:30	11/23/2020	10:50	11/23/2020
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Analyzed By:	BN	Date Analyzed:	11/20/2020
Reviewed By:	<i>K</i>	Date Reviewed:	11/23/20



Chlorinated Herbicides by GC

ALS Environmental—Kelso Laboratory
1317 South 13th Avenue, Kelso, WA 98626
Phone (360)577-7222 Fax (360)636-1068
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 369505
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep Workflow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/10/20 09:32

#	Lab Code	Client ID	E#	Method / Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010308-001	USMPDI-039SC-B-00-02-201104	.01	8151A/HERB		Sediment	30.233g	50.00mL	JGRIMES K-Balance-49
2	K2010308-002	USMPDI-039SC-B-02-04-201104	.01	8151A/HERB		Sediment	30.021g	50.00mL	JGRIMES K-Balance-49
3	K2010308-003	USMPDI-039SC-B-04-06-201104	.02	8151A/HERB		Sediment	30.182g	50.00mL	JGRIMES K-Balance-49
4	K2010308-004	USMPDI-039SC-B-06-08-201104	.01	8151A/HERB		Sediment	30.126g	50.00mL	JGRIMES K-Balance-49
5	K2010308-005	USMPDI-039SC-B-08-10-201104	.01	8151A/HERB		Sediment	30.346g	50.00mL	JGRIMES K-Balance-49
6	K2010308-006	USMPDI-039SC-B-10-12-201104	.01	8151A/HERB		Sediment	30.221g	50.00mL	JGRIMES K-Balance-49
7	K2010308-007	USMPDI-039SC-B-12-14-201104	.01	8151A/HERB		Sediment	30.122g	50.00mL	JGRIMES K-Balance-49
8	K2010308-008	USMPDI-039SC-B-14-16-201104	.01	8151A/HERB		Sediment	30.023g	50.00mL	JGRIMES K-Balance-49
9	K2010308-009	USMPDI-044SC-B-00-02-201104	.01	8151A/HERB		Sediment	30.010g	50.00mL	JGRIMES K-Balance-49
10	K2010308-010	USMPDI-044SC-B-02-04-201104	.01	8151A/HERB		Sediment	30.112g	50.00mL	JGRIMES K-Balance-49
11	K2010308-011	USMPDI-044SC-B-04-06-201104	.01	8151A/HERB		Sediment	30.071g	50.00mL	JGRIMES K-Balance-49
12	K2010308-012	USMPDI-044SC-B-06-08-201104	.01	8151A/HERB		Sediment	30.099g	50.00mL	JGRIMES K-Balance-49
13	K2010308-013	USMPDI-044SC-B-08-10-201104	.01	8151A/HERB		Sediment	30.253g	50.00mL	JGRIMES K-Balance-49
14	K2010308-014	USMPDI-044SC-B-10-12-201104	.01	8151A/HERB		Sediment	30.055g	50.00mL	JGRIMES K-Balance-49
15	K2010308-015	USMPDI-044SC-B-12-14-201104	.01	8151A/HERB		Sediment	30.317g	50.00mL	JGRIMES K-Balance-49
16	K2010308-016	USMPDI-044SC-B-14-16-201104	.01	8151A/HERB		Sediment	30.395g	50.00mL	JGRIMES K-Balance-49
17	K2010308-017	USMPDI-044SC-B-16-17-3-201104	.01	8151A/HERB		Sediment	30.355g	50.00mL	JGRIMES K-Balance-49
18	K2010308-018	USMPDI-1044SC-B-02-04-201104	.01	8151A/HERB		Sediment	30.297g	50.00mL	JGRIMES K-Balance-49
19	K2010308-019	USMPDI-049SC-B-00-02-201104	.01	8151A/HERB		Sediment	30.135g	50.00mL	JGRIMES K-Balance-49
20	K2010308-020	USMPDI-049SC-B-02-04-201104	.01	8151A/HERB		Sediment	30.246g	50.00mL	JGRIMES K-Balance-49
21	K2010308-021	USMPDI-049SC-B-02-04-201104	.02	8151A/HERB		Solid	30.145g	50.00mL	JGRIMES K-Balance-49
22	K2010308-022	USMPDI-049SC-B-02-04-201104	.02	8151A/HERB		Solid	30.038g	50.00mL	JGRIMES K-Balance-49
23	K2010308-023	USMPDI-049SC-B-02-04-201104		8151A/HERB		Solid	30.00g	50.00mL	JGRIMES K-Balance-49
24	K2010308-024	USMPDI-049SC-B-02-04-201104		8151A/HERB		Solid	30.3950g	50.00mL	JGRIMES K-Balance-49

Spiking Solutions

Name:	8151A 5ppm Herbicide surrogate	Inventory ID	213981	Logbook Ref:	Penta02-15H	Expires On:	05/13/2021
K2010308-001	1,000.00µL	K2010308-002	1,000.00µL	K2010308-004	1,000.00µL	K2010308-005	1,000.00µL
K2010308-007	1,000.00µL	K2010308-008	1,000.00µL	K2010308-010	1,000.00µL	K2010308-011	1,000.00µL
K2010308-013	1,000.00µL	K2010308-014	1,000.00µL	K2010308-016	1,000.00µL	K2010308-017	1,000.00µL
K2010308-019	1,000.00µL	K2010308-020	1,000.00µL	K2010308-022	1,000.00µL	K2010308-023	1,000.00µL

Name: 8151A 5-500ppm Herbicides matrix spike
Inventory ID: 213983
Logbook Ref: Penta02-15I
Expires On: 05/13/2021

Preparation Information Benchsheet

Prep Run#: 369505 **Status:** Prepped
Team: Semiyoa GC/BGREER **Prep Method:** OrgHerbs(14)
 KQ2017638-01 1,000.00µL **Prep Date/Time:** 11/10/20 09:32
 KQ2017638-02 1,000.00µL **Prep Method:** Method
 KQ2017638-03 1,000.00µL

Preparation Steps

Step:	Weight	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	11/10/20 09:32	Started:	11/18/20 16:00	Started:	11/23/20 13:36	Started:	11/23/20 14:06
Finished:	11/20/20 10:50	Finished:	11/18/20 17:00	Finished:	11/23/20 14:06	Finished:	11/23/20 15:45
By:	BGREER	By:	BGREER	By:	TNORRIS	By:	TNORRIS
Comments		Comments		Comments		Comments	

Comments:

Reviewed By: [Signature] Date: 11-25-20

Chain of Custody

Relinquished By: [Signature] Date: 11/23/20
 Received By: [Signature] Date: 11-23-20

Extracts Examined
 Yes No

Preparation Information Benchsheet

Prep Run#: 369505
Team: Semiova GC/BGREER
Number of Copies to make: 1
Prep Workflow: OrgHerbs(14)
Prep Method: Method
Status: Draft
Prep Date/Time: 11/10/20 09:32 AM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol mL	Final Vol mL	Surr Amt mL	Spike Amt mL
1	K2010308-001	USMPDI-039SC-B-00-02-201104	.01	8151A / HERB	Sediment	*	N/A		SP	1	-
2	K2010308-002	USMPDI-039SC-B-02-04-201104	.01	8151A / HERB	Sediment	*			SP		-
3	K2010308-003	USMPDI-039SC-B-04-06-201104	.02	8151A / HERB	Sediment	*			SP		-
4	K2010308-004	USMPDI-039SC-B-06-08-201104	.01	8151A / HERB	Sediment	*			SP		-
5	K2010308-005	USMPDI-039SC-B-08-10-201104	.01	8151A / HERB	Sediment	*			SP		-
6	K2010308-006	USMPDI-039SC-B-10-12-201104	.01	8151A / HERB	Sediment	*			SP		-
7	K2010308-007	USMPDI-039SC-B-12-14-201104	.01	8151A / HERB	Sediment	*			SP		-
8	K2010308-008	USMPDI-039SC-B-14-16-201104	.01	8151A / HERB	Sediment	*			SP		-
9	K2010308-009	USMPDI-044SC-B-00-02-201104	.01	8151A / HERB	Sediment	*			SP		-
10	K2010308-010	USMPDI-044SC-B-02-04-201104	.01	8151A / HERB	Sediment	*			SP		-
11	K2010308-011	USMPDI-044SC-B-04-06-201104	.01	8151A / HERB	Sediment	*			SP		-
12	K2010308-012	USMPDI-044SC-B-06-08-201104	.01	8151A / HERB	Sediment	*			SP		-
13	K2010308-013	USMPDI-044SC-B-08-10-201104	.01	8151A / HERB	Sediment	*			SP		-
14	K2010308-014	USMPDI-044SC-B-10-12-201104	.01	8151A / HERB	Sediment	*			SP		-
15	K2010308-015	USMPDI-044SC-B-12-14-201104	.01	8151A / HERB	Sediment	*			SP		-
16	K2010308-016	USMPDI-044SC-B-14-16-201104	.01	8151A / HERB	Sediment	*			SP		-
17	K2010308-017	USMPDI-044SC-B-16-17-3-201104	.01	8151A / HERB	Sediment	*			SP		-
18	K2010308-018	USMPDI-1044SC-B-02-04-201104	.01	8151A / HERB	Sediment	*			SP		-
19	K2010308-019	USMPDI-049SC-B-00-02-201104	.01	8151A / HERB	Sediment	*			SP		-
20	K2010308-020	USMPDI-049SC-B-02-04-201104	.01	8151A / HERB	Sediment	*			SP		-
21	KQ2017638-01	K2010308-003 MS	.02	8151A / HERB	Solid	*			SP		1
22	KQ2017638-02	K2010308-003 DMS	.02	8151A / HERB	Solid	*			SP		1
23	KQ2017638-03	LCS		8151A / HERB	Solid				SP		1
24	KQ2017638-04	MB		8151A / HERB	Solid	30.395	1		SP		1

Comments: * See prep sheet

Surrogate ID: Penta 0.2-15H 5ppm Ace xp: 5/13/21 100µL **Spike ID:** Penta 0.2-15I 5-500ppm Ace xp: 5/13/21 100µL

Witnessed By: Bred A Bright **Analyst:** Bred

Pre-Prep Information Benchsheet

Prep Run #: 369505

Container Lot No: 090720-1TW, 092120-1BNU Prep Due Date: Nov-11-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010308-001	.01	HERB : 8151A	30.233g		JGRIMES K-Balance-49
2	K2010308-002	.01	HERB : 8151A	30.021g		JGRIMES K-Balance-49
3	K2010308-003	.02	HERB : 8151A	30.182g		JGRIMES K-Balance-49
4	K2010308-003 MS KQ2017638-01	.02	HERB : 8151A	30.145g		JGRIMES K-Balance-49
5	K2010308-003 DMS KQ2017638-02	.02	HERB : 8151A	30.038g		JGRIMES K-Balance-49
6	K2010308-004	.01	HERB : 8151A	30.126g		JGRIMES K-Balance-49
7	K2010308-005	.01	HERB : 8151A	30.346g		JGRIMES K-Balance-49
8	K2010308-006	.01	HERB : 8151A	30.221g		JGRIMES K-Balance-49
9	K2010308-007	.01	HERB : 8151A	30.122g		JGRIMES K-Balance-49
10	K2010308-008	.01	HERB : 8151A	30.023g		JGRIMES K-Balance-49
11	K2010308-009	.01	HERB : 8151A	30.010g		JGRIMES K-Balance-49
12	K2010308-010	.01	HERB : 8151A	30.112g		JGRIMES K-Balance-49
13	K2010308-011	.01	HERB : 8151A	30.071g		JGRIMES K-Balance-49
14	K2010308-012	.01	HERB : 8151A	30.099g		JGRIMES K-Balance-49
15	K2010308-013	.01	HERB : 8151A	30.253g		JGRIMES K-Balance-49
16	K2010308-014	.01	HERB : 8151A	30.055g		JGRIMES K-Balance-49
17	K2010308-015	.01	HERB : 8151A	30.317g		JGRIMES K-Balance-49
18	K2010308-016	.01	HERB : 8151A	30.395g		JGRIMES K-Balance-49
19	K2010308-017	.01	HERB : 8151A	30.355g		JGRIMES K-Balance-49
20	K2010308-018	.01	HERB : 8151A	30.297g		JGRIMES K-Balance-49
21	K2010308-019	.01	HERB : 8151A	30.135g		JGRIMES K-Balance-49
22	K2010308-020	.01	HERB : 8151A	30.246g		JGRIMES K-Balance-49

Relinquished By: <i>JG</i>	Date/Time: <i>11-10-20</i>	Received By: <i>BGreer</i>	Date/Time: <i>11/11/20 1006</i>
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Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010308 Work Group # KQ2017638

Acidified Sulfate Lot # DZ03-87N Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ270 Hydrochloric Acid Lot # S8242

Wrist Action Shaker Start (time/date/initial): 1600 11/18/20 BG

Wrist Action Shaker Stop (time/date/initial): 1700 11/18/20 BG

N-Evap (time/date/initial): 1050 11/19/20 BG N-Evap Thermometer ID: X-SVM-004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20.0 °C

Saponification Start (time/date/initial): 1334 11/19/20 BG/K2 37% KOH Lot # DZ03-80J

Saponification Stop (time/date/initial): 1435 11/19/20 BG/K2

Extraction Start (time/date/initial): 1500 11/19/20 BG/K2 Sulfuric Acid Lot # DZ03-796

Extraction Stop (time/date/initial): 1700 11/19/20 BG/K2

Derivatization Start (time/date/initial): 1536 11/23/20 TN Diazomethane Lot # DZ03-48P

Derivatization Stop (time/date/initial): 1906 11/23/20 TN

Pipette (5 mL) Lot # 04420697

Solvent Exchange to Iso-Octane (time/date/initial): 1406 11/23/20 TN

Iso-Octane Lot # DY719-4J N-Evap Thermometer ID: X-SVM-010

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # 02720626

Vial: red Vial Storage: counter

Archive Storage: Captain / Wesley

Additional Comments: completed 1545 11/23/20 TN

Bench Sheet Review Check List	
<input checked="" type="checkbox"/>	Hold times met (if no, reason: _____)
<input checked="" type="checkbox"/>	Prep date, time, method, department, product code correct in stealth
<input checked="" type="checkbox"/>	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
<input checked="" type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input checked="" type="checkbox"/>	Sample IDs have been checked - bottle numbers appended if required
<input checked="" type="checkbox"/>	Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
<input checked="" type="checkbox"/>	Extract storage recorded
<input checked="" type="checkbox"/>	Additional prep sheet completely filled out (NA or line out blanks)
<input checked="" type="checkbox"/>	All clean-ups have been noted on additional prep sheet
<input checked="" type="checkbox"/>	Signed service request with Form V, if applicable, has been attached

Preparation Information Benchsheet

Prep Run#: 369506
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/10/20 09:34


#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010308-021	USMPDI-049SC-B-04-06-201104	.01	8151A/HERB		Sediment	30.195g	50.00mL	JGRIMES K-Balance-49
2	K2010308-022	USMPDI-049SC-B-06-08-201104	.01	8151A/HERB		Sediment	30.132g	50.00mL	JGRIMES K-Balance-49
3	K2010308-023	USMPDI-049SC-B-08-10-201104	.01	8151A/HERB		Sediment	30.173g	50.00mL	JGRIMES K-Balance-49
4	K2010308-024	USMPDI-049SC-B-10-12-201104	.01	8151A/HERB		Sediment	30.287g	50.00mL	JGRIMES K-Balance-49
5	K2010308-025	USMPDI-049SC-B-12-14-201104	.01	8151A/HERB		Sediment	30.135g	50.00mL	JGRIMES K-Balance-49
6	K2010308-026	USMPDI-049SC-B-14-16-201104	.01	8151A/HERB		Sediment	30.064g	50.00mL	JGRIMES K-Balance-49
7	KQ2017639-01	K2010308-026 MS	.01	8151A/HERB		Solid	30.040g	50.00mL	JGRIMES K-Balance-49
8	KQ2017639-02	K2010308-026 DMS	.01	8151A/HERB		Solid	30.185g	50.00mL	JGRIMES K-Balance-49
9	KQ2017639-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	JGRIMES K-Balance-49
10	KQ2017639-04	MB		8151A/HERB		Solid	30.2870g	50.00mL	

Spiking Solutions

Name:	8151A 5ppm Herbicide surrogate	Inventory ID	213981	Logbook Ref:	Penta02-15H	Expires On:	05/13/2021
K2010308-021	1,000.00µL	K2010308-022	1,000.00µL	K2010308-023	1,000.00µL	K2010308-024	1,000.00µL
K2010308-021	1,000.00µL	K2010308-022	1,000.00µL	K2010308-023	1,000.00µL	K2010308-024	1,000.00µL
K2010308-021	1,000.00µL	K2010308-022	1,000.00µL	K2010308-023	1,000.00µL	K2010308-024	1,000.00µL
Name: 8151A 5-500ppm Herbicides matrix spike		Inventory ID	213983	Logbook Ref:	penta02-15I	Expires On:	05/13/2021
KQ2017639-01	1,000.00µL	KQ2017639-02	1,000.00µL	KQ2017639-03	1,000.00µL		

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivatization	Step:	Final Volume
Started:	11/10/20 09:34	Started:	11/18/20 16:00	Started:	11/23/20 13:36	Started:	11/23/20 14:06
Finished:	11/20/20 10:50	Finished:	11/18/20 17:00	Finished:	11/23/20 14:06	Finished:	11/23/20 15:45
By:	BGREER	By:	BGREER	By:	TNORRIS	By:	TNORRIS
Comments		Comments		Comments		Comments	

Comments: _____
Reviewed By:  **Date:** 11-25-20
 Printed 11/23/20 16:20
 Preparation Information Benchsheet
 Page 1

Preparation Information Benchsheet

Prep Run#: 369506
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbs(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/10/20 09:34

Chain of Custody

Relinquished By: Dsoni
Received By: WA

Date: 11/23/20
Date: 11-23-20

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 369506 **Team:** Sennivva GC/BGREER **Prep WorkFlow:** OrgHerbS(14) **Status:** Draft
Number of Copies to make: 1 **Prep Method:** Method **Prep Date/Time:** 11/10/20 09:34 AM

#	Lab Code	Client ID	B#	Method / Test	Matrix	Amt. Ext.	pH	Int. Vol mL	Final Vol mL	Surr Amt mL	Spike Amt mL
1	K2010308-021	USMPDI-049SC-B-04-06-201104	.01	8151A/HERB	Sediment	9	N/A		SR	1	
2	K2010308-022	USMPDI-049SC-B-06-08-201104	.01	8151A/HERB	Sediment	*			SR		
3	K2010308-023	USMPDI-049SC-B-08-10-201104	.01	8151A/HERB	Sediment	*			SR		
4	K2010308-024	USMPDI-049SC-B-10-12-201104	.01	8151A/HERB	Sediment	*			SR		
5	K2010308-025	USMPDI-049SC-B-12-14-201104	.01	8151A/HERB	Sediment	*			SR		
6	K2010308-026	USMPDI-049SC-B-14-16-201104	.01	8151A/HERB	Sediment	*			SR		
7	KQ2017639-01	K2010308-026 MS	.01	8151A/HERB	Solid	*			SR		1
8	KQ2017639-02	K2010308-026 DMS	.01	8151A/HERB	Solid	*			SR		1
9	KQ2017639-03	LCS		8151A/HERB	Solid	30.000			SR		1
10	KQ2017639-04	MB		8151A/HERB	Solid	30.287			SR		1

Comments: **See pre prep sheet*

Surrogate ID: *Penta02-15H Spmn Ace xp: 5/13/21 1000µL* **Spike ID:** *Penta02-15I S-500ppm Ace xp: 5/13/21 1000µL*

Witnessed By: *Brad A Bryant* **Analysr:** *BGreer*

Pre-Prep Information Benchsheet

Prep Run #: 369506

Container Lot No: 090720-1TW, 092120-1BNU Prep Due Date: Nov-11-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010308-021	.01	HERB : 8151A	30.195g		JGRIMES K-Balance-49
2	K2010308-022	.01	HERB : 8151A	30.132g		JGRIMES K-Balance-49
3	K2010308-023	.01	HERB : 8151A	30.173g		JGRIMES K-Balance-49
4	K2010308-024	.01	HERB : 8151A	30.287g		JGRIMES K-Balance-49
5	K2010308-025	.01	HERB : 8151A	30.135g		JGRIMES K-Balance-49
6	K2010308-026	.01	HERB : 8151A	30.064g		JGRIMES K-Balance-49
7	K2010308-026 MS KQ2017639-01	.01	HERB : 8151A	30.040g		JGRIMES K-Balance-49
8	KQ2017639-02	.01	HERB : 8151A	30.185g		JGRIMES K-Balance-49

Relinquished By: <i>JB</i>	Date/Time: <i>11-10-20</i>	Received By: <i>Parker</i>	Date/Time: <i>11/11/20 1000</i>
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Additional Prep Information for EPA Method 8151A
Herbicides in Soil

Service Request # K2010308 Work Group # KQ2017639

Acidified Sulfate Lot # DZ03-87N Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ270 Hydrochloric Acid Lot # S8242

Wrist Action Shaker Start (time/date/initial): 1600 11/18/20 BG

Wrist Action Shaker Stop (time/date/initial): 1700 11/18/20 BG

N-Evap (time/date/initial): 1050 11/19/20 BG N-Evap Thermometer ID: X-SVM-004

Temp as measured: 20 °C Correction factor: 0.0 °C Adjusted temp: 20.0 °C

Saponification Start (time/date/initial): 1334 11/19/20 BG/KZ 37% KOH Lot # DZ03-80J

Saponification Stop (time/date/initial): 1435 11/19/20 BG/KZ

Extraction Start (time/date/initial): 1500 11/19/20 BG/RZ Sulfuric Acid Lot # DZ03-79G

Extraction Stop (time/date/initial): 1700 11/19/20 BG/RZ

Derivatization Start (time/date/initial): 1336 11/22/20 N Diazomethane Lot # DZ03-950

Derivatization Stop (time/date/initial): 1406 11/22/20 N

Pipette (5 mL) Lot # 04420647

Solvent Exchange to Iso-Octane (time/date/initial): 1406 11/23/20 N

Iso-Octane Lot # 07769-WJ N-Evap Thermometer ID: X+M-010

Temp as measured: 20 °C Correction factor: 0 °C Adjusted temp: 20 °C

Pipette (1 mL) Lot # 02720646

Vial: red Vial Storage: counter

Archive Storage: Captain / Wesley

Additional Comments: 1545 11/23/20 N - completed

Bench Sheet Review Check List	
<input checked="" type="checkbox"/>	Hold times met (if no, reason: _____)
<input checked="" type="checkbox"/>	Prep date, time, method, department, product code correct in stealth
<input checked="" type="checkbox"/>	Spike information and Q.C. correct (insufficient volume or mass recorded if no Q.C.)
<input checked="" type="checkbox"/>	Weights/Volumes and units correct on raw and final bench sheets
<input checked="" type="checkbox"/>	Sample IDs have been checked - bottle numbers appended if required
<input checked="" type="checkbox"/>	Names present for: started by, completed by, relinquished by, and witnessed by. Training circled.
<input checked="" type="checkbox"/>	Extract storage recorded
<input checked="" type="checkbox"/>	Additional prep sheet completely filled out (NA or line out blanks)
<input checked="" type="checkbox"/>	All clean-ups have been noted on additional prep sheet
<input checked="" type="checkbox"/>	Signed service request with Form V, if applicable, has been attached

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240009.D\
Lab ID: K2010308-001
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 17:57:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240009.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 17:57:00	Vial: 11
Run Type: N/A	Dilution: 1
Lab ID: K2010308-001	Raw Units: ppb

Bottle ID: K2010308-001.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1119908	3250493	61.545	76.848	62	77	62	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 ^{-0.01}	10.09 ^{-0.05}	37112	2585381	0.396	12.736	1.1U	34J	3.9 U	Y
2,4-D	9.27 ^{-0.05}	9.03 ^{-0.04}	19713	494601	0.928	9.660	2.5U	26J	13 U	Y

Prep Amount: 30.233 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 62.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240009.D Vial: 15
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 5:57 pm Operator: UA
 Sample : K2010308-01 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:39:58 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.986	7.816	1119908	3250493	61.545	76.848m
Target Compounds						
1) m Dalapon	3.136	2.872	25966	240598	1.070	4.980 #
3) m Dicamba	8.159f	7.932	19971	106775	0.286	0.720 #
4) m MCPP	8.306	8.099	333608	124379	7687.745	N.D. #
5) m MCPA	8.529	8.349	30116	175206	514.342	N.D. #
6) m Dichloroprop	8.966	8.766	51593	131493	2.767	3.152
7) m 2,4-D	9.273f	9.029	19713	494601	0.928	9.660 #
8) m 2,4,5-TP ...	10.253	10.089	37112	2585381	0.396	12.736 #
9) m 2,4,5-T	10.686	10.586f	97254	157469	1.179	0.823 #
10) m 2,4-DB	11.256	11.176	17834	182910	1.738	6.304 #
11) m Dinoseb	11.699	11.322	43629	76742	0.705	0.561

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

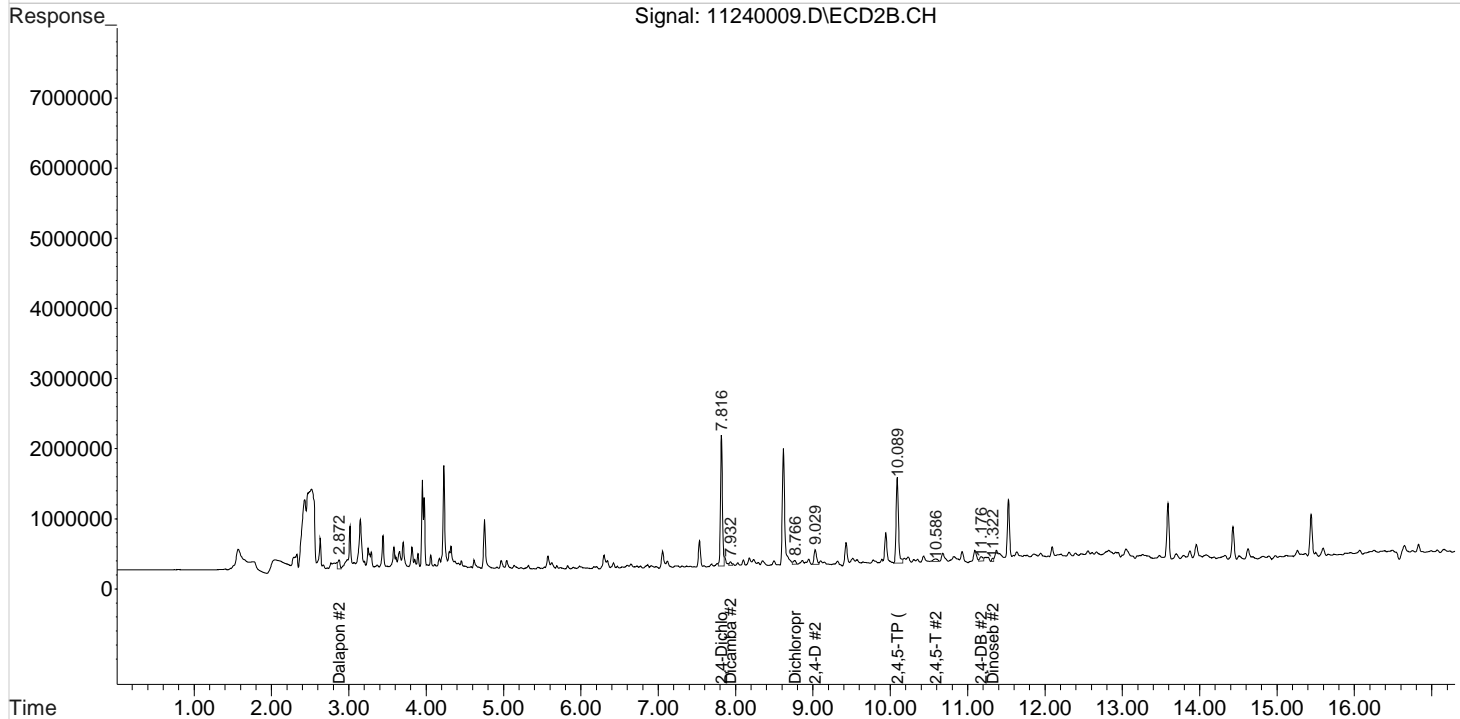
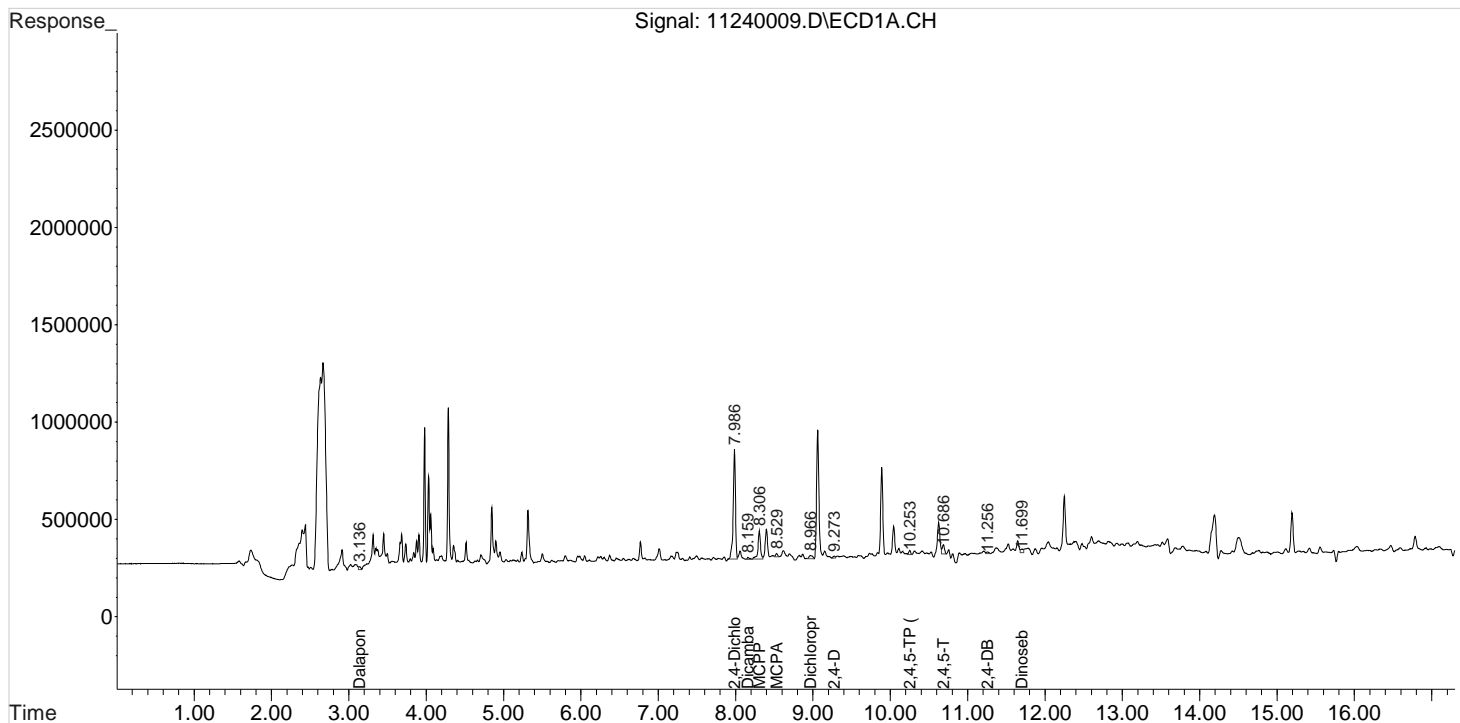
Data File : J:\gc24\data\112420\11240009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 5:57 pm
Sample : K2010308-01
Misc :

Vial: 15
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:39:58 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

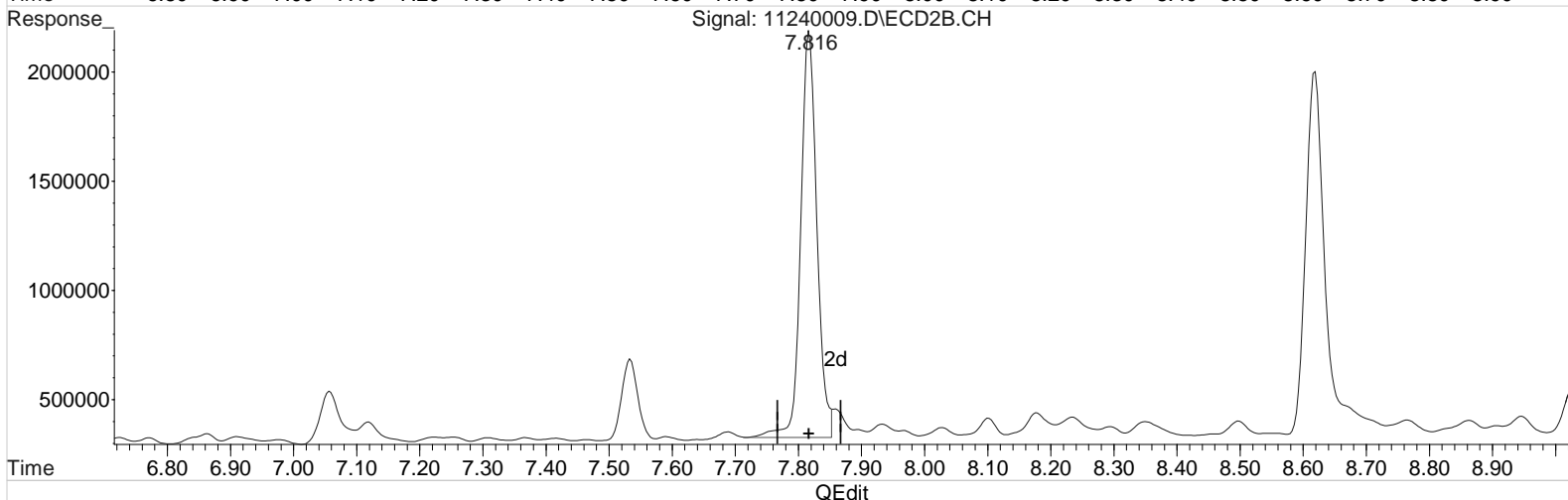
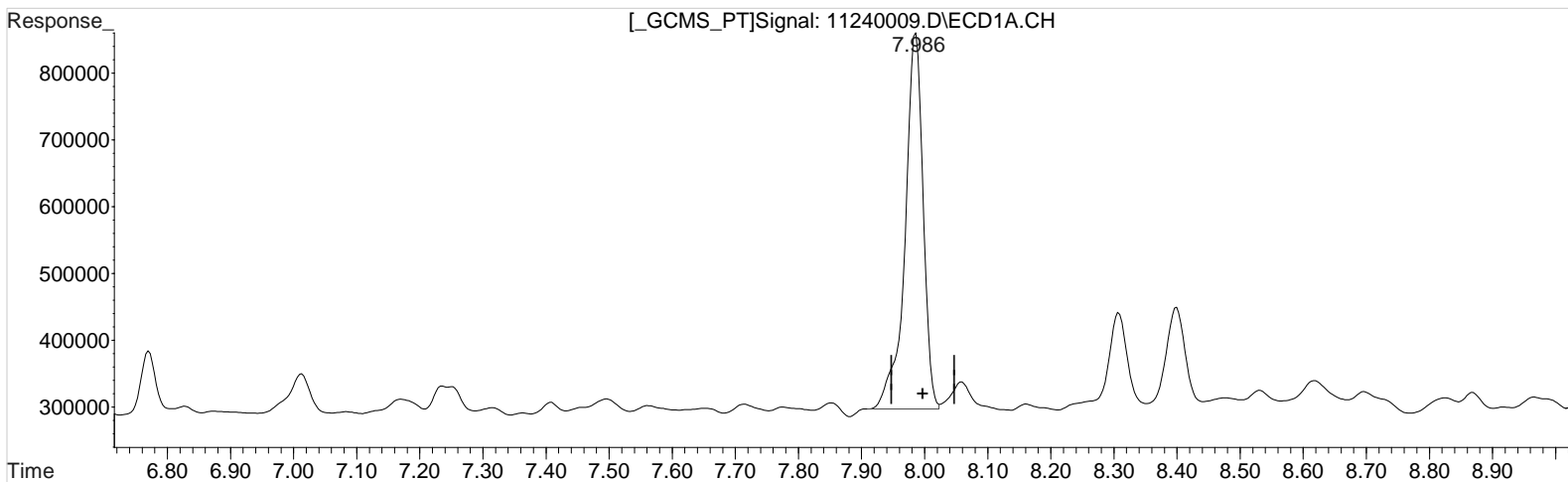
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240009.D Vial: 15
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 5:57 pm Operator: UA
Sample : K2010308-01 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:58:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 61.545 ppb
response 1119908

Manual Integration:

Before

11/25/20

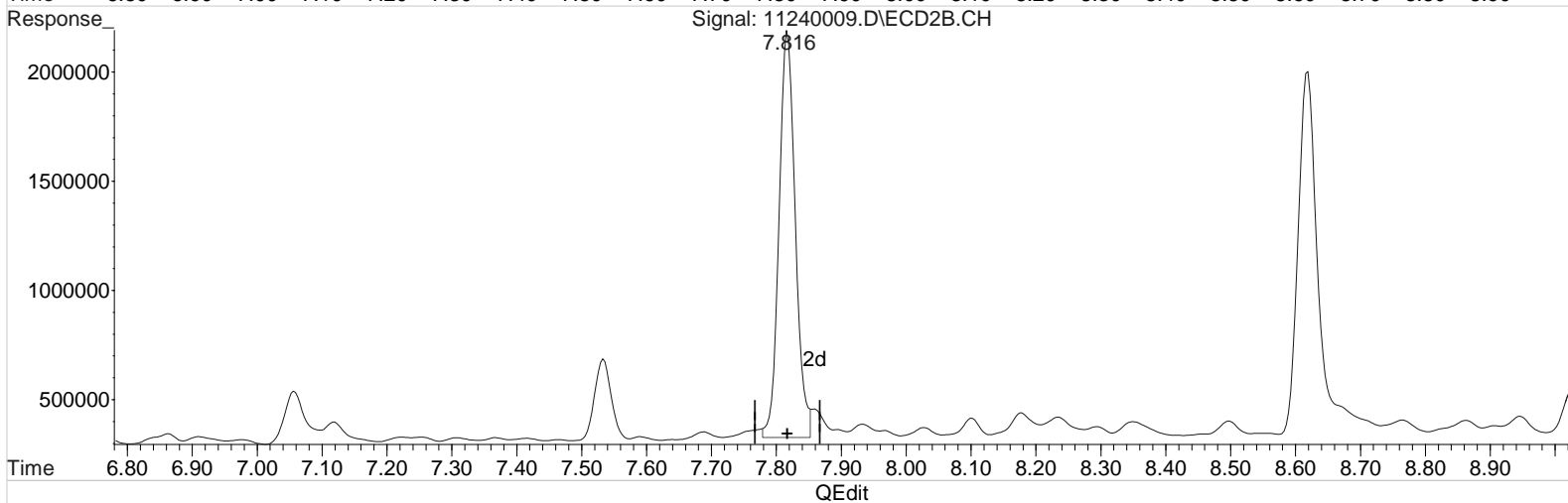
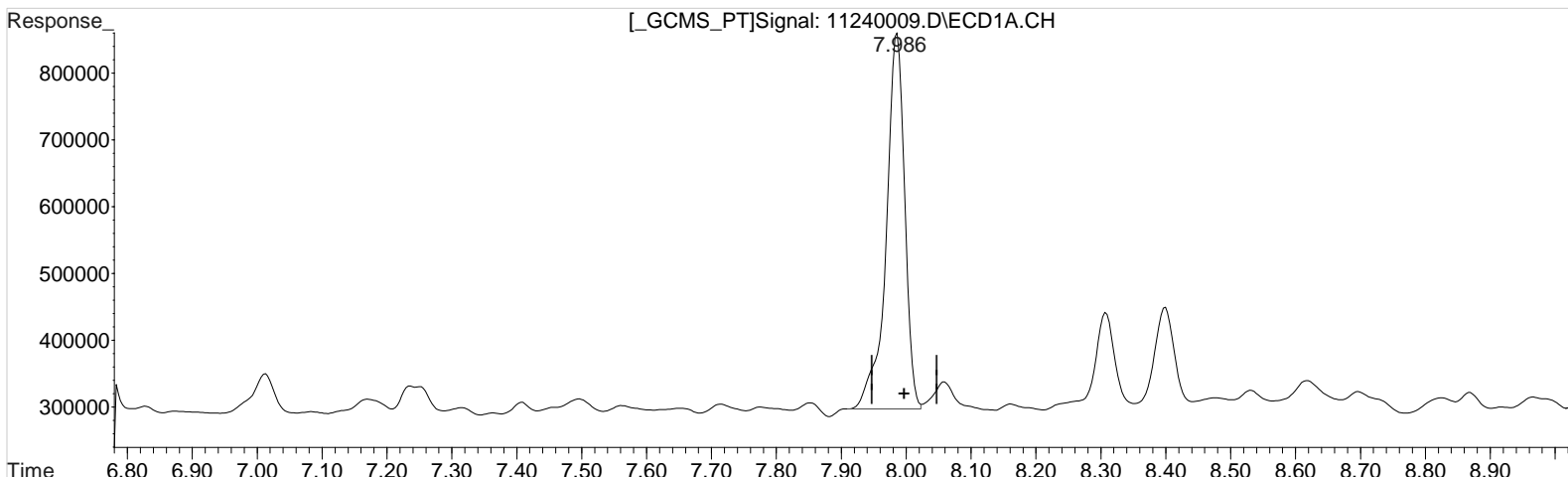
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.816min 78.667 ppb
response 3327440

Data File : J:\gc24\data\112420\11240009.D Vial: 15
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 5:57 pm Operator: UA
Sample : K2010308-01 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:58:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 61.545 ppb
response 1119908

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.816min 76.848 ppb m
response 3250493

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240010.D\
Lab ID: K2010308-002
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 18:20:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240010.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 18:20:00	Vial: 12
Run Type: N/A	Dilution: 1
Lab ID: K2010308-002	Raw Units: ppb

Bottle ID: K2010308-002.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1110302	3541000	61.017	83.716	61	84	61	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 ^{-0.01}	10.09 ^{-0.05}	9526	89472	0.102	0.441	0.22U	0.96U	3.2 U	Y
2,4-D	9.27 ^{-0.05}	9.04 ^{-0.03}	8929	185841	0.420	3.630	0.91U	7.9U	11 U	Y

Prep Amount: 30.021 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 76.70

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240010.D Vial: 16
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 6:20 pm Operator: UA
 Sample : K2010308-02 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:40:16 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.981	7.814	1110302	3541000	61.017	83.716 #
Target Compounds						
1) m Dalapon	3.137	2.874	9743	218078	0.402	4.514 #
3) m Dicamba	8.187	7.897	16439	29146	0.236	0.197
4) m MCPP	8.307	8.097	34014	81449	1240.730	N.D. #
5) m MCPA	8.574	8.347	15520	98123	265.061	N.D. #
6) m Dichloroprop	8.957	8.764	22446	13882	1.204	0.333 #
7) m 2,4-D	9.267f	9.037	8929	185841	0.420	3.630 #
8) m 2,4,5-TP ...	10.251	10.087	9526	89472	0.102	0.441 #
9) m 2,4,5-T	10.687	10.437f	12994	790908	0.157	4.133 #
10) m 2,4-DB	11.247	11.174	25345	37618	2.470	1.296 #
11) m Dinoseb	11.651	11.327	63611	17617	1.028	0.129 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

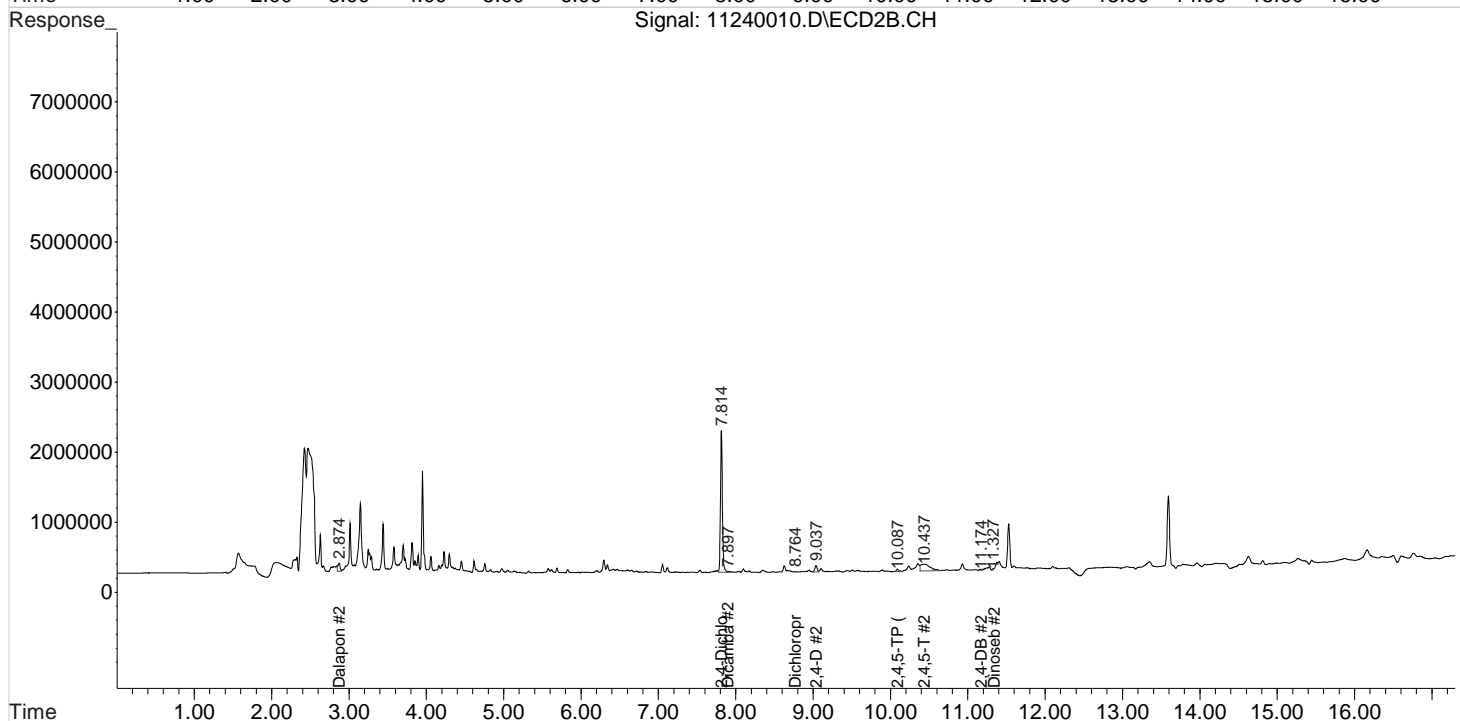
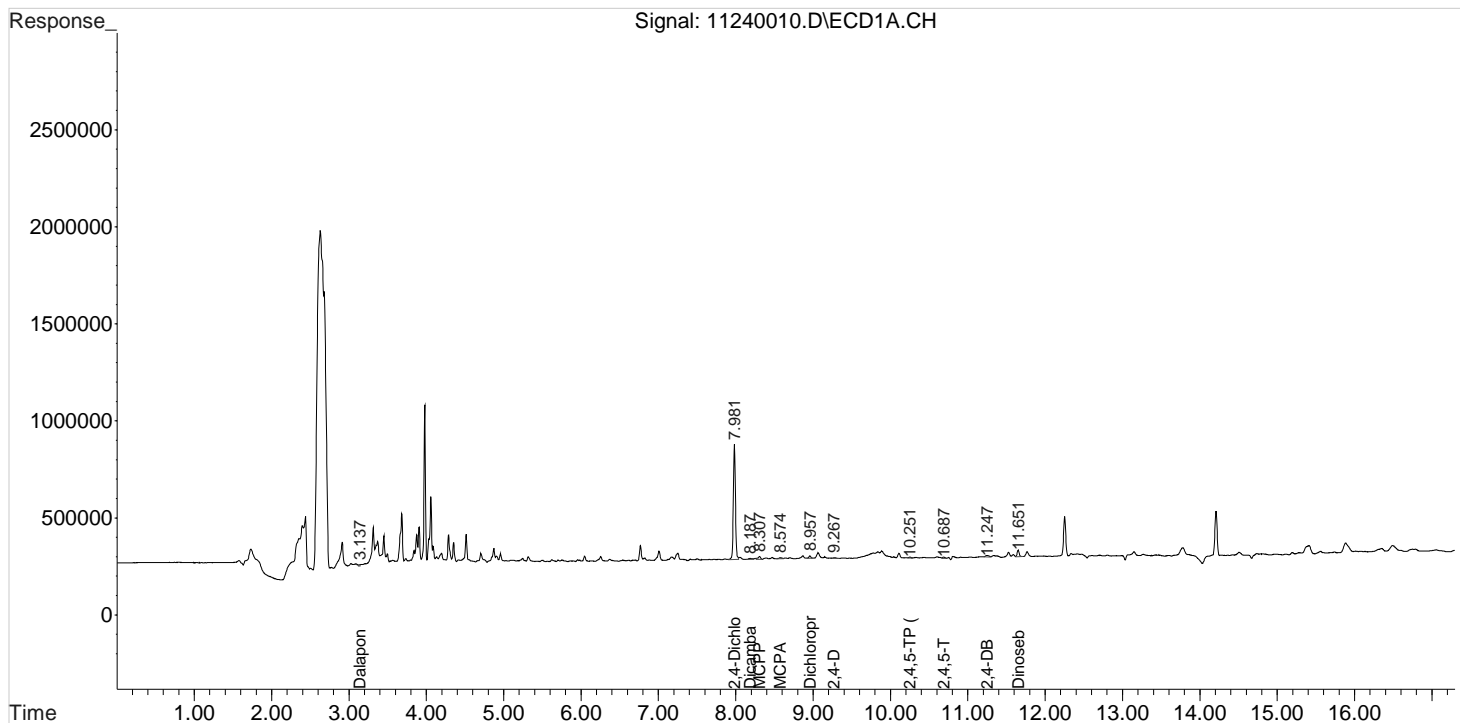
Data File : J:\gc24\data\112420\11240010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 6:20 pm
Sample : K2010308-02
Misc :

Vial: 16
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:40:16 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240011.D\
Lab ID: K2010308-003
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 18:42:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240011.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 18:42:00	Vial: 13
Run Type: N/A	Dilution: 1
Lab ID: K2010308-003	Raw Units: ppb

Bottle ID: K2010308-003.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1098537	3662377	60.370	86.585	60	87	60	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 ^{-0.01}	10.12 ^{-0.02}	20886	5818	0.223	0.029	0.45U	0.058U	2.9 U	Y
2,4-D	9.28 ^{-0.04}	9.04 ^{-0.03}	16405	311018	0.772	6.075	1.5U	12J	9.3 U	Y

Prep Amount: 30.182 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 83.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240011.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 6:42 pm Operator: UA
 Sample : K2010308-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:49:59 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.984	7.813	1098537	3662377	60.370m	86.585m#
Target Compounds						
1) m Dalapon	3.140	2.873	1571	256464	0.065	5.308 #
3) m Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m MCPP	8.307	8.097	22875	79973	1001.028	N.D. #
5) m MCPA	8.577	8.347	18852	85788	321.967	N.D. #
6) m Dichloroprop	8.957	8.767	28861	16352	1.548	0.392 #
7) m 2,4-D	9.284	9.037	16405	311018	0.772	6.075 #
8) m 2,4,5-TP ...	10.254	10.123	20886	5818	0.223	0.029 #
9) m 2,4,5-T	10.687	10.530	16509	13319	0.200	0.070 #
10) m 2,4-DB	11.244	11.167	206415	45170	20.120	1.557 #
11) m Dinoseb	11.647	11.270	78168	110184	1.264	0.806 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

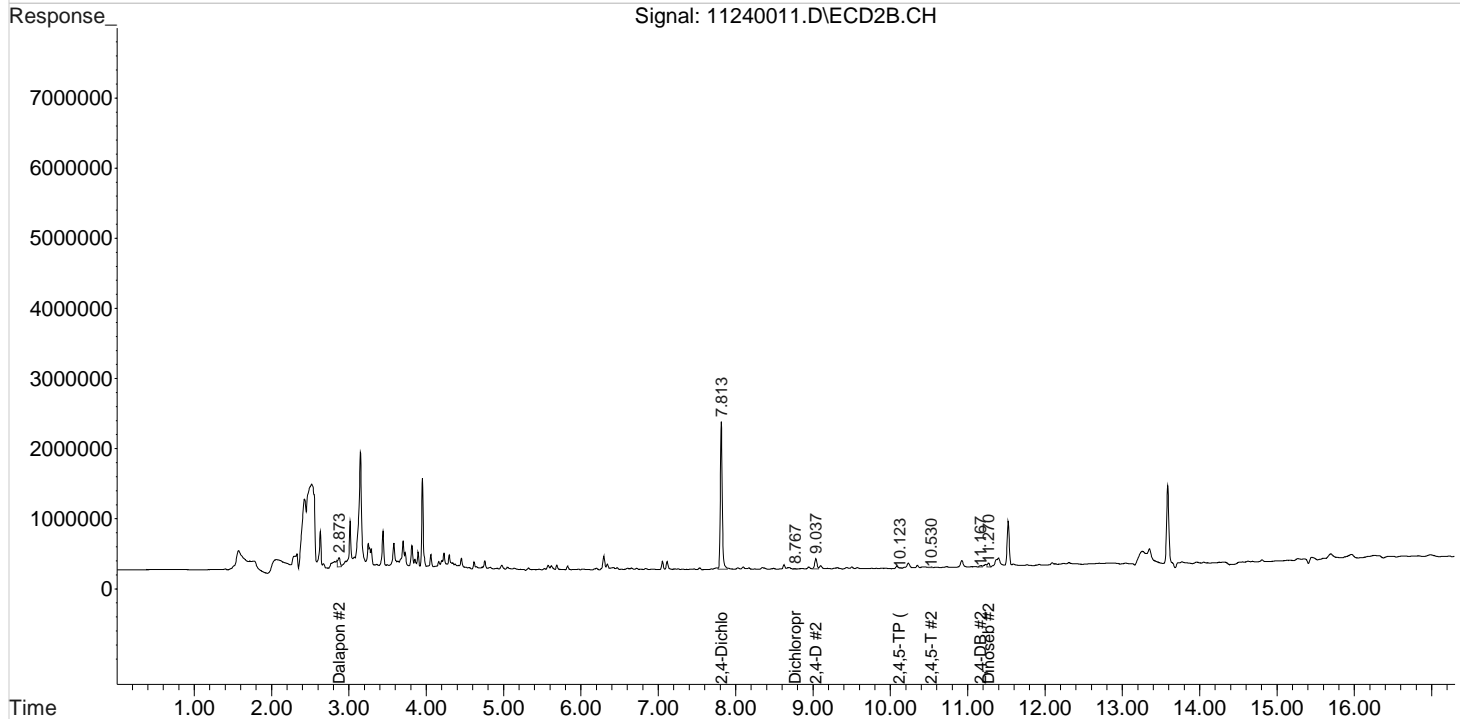
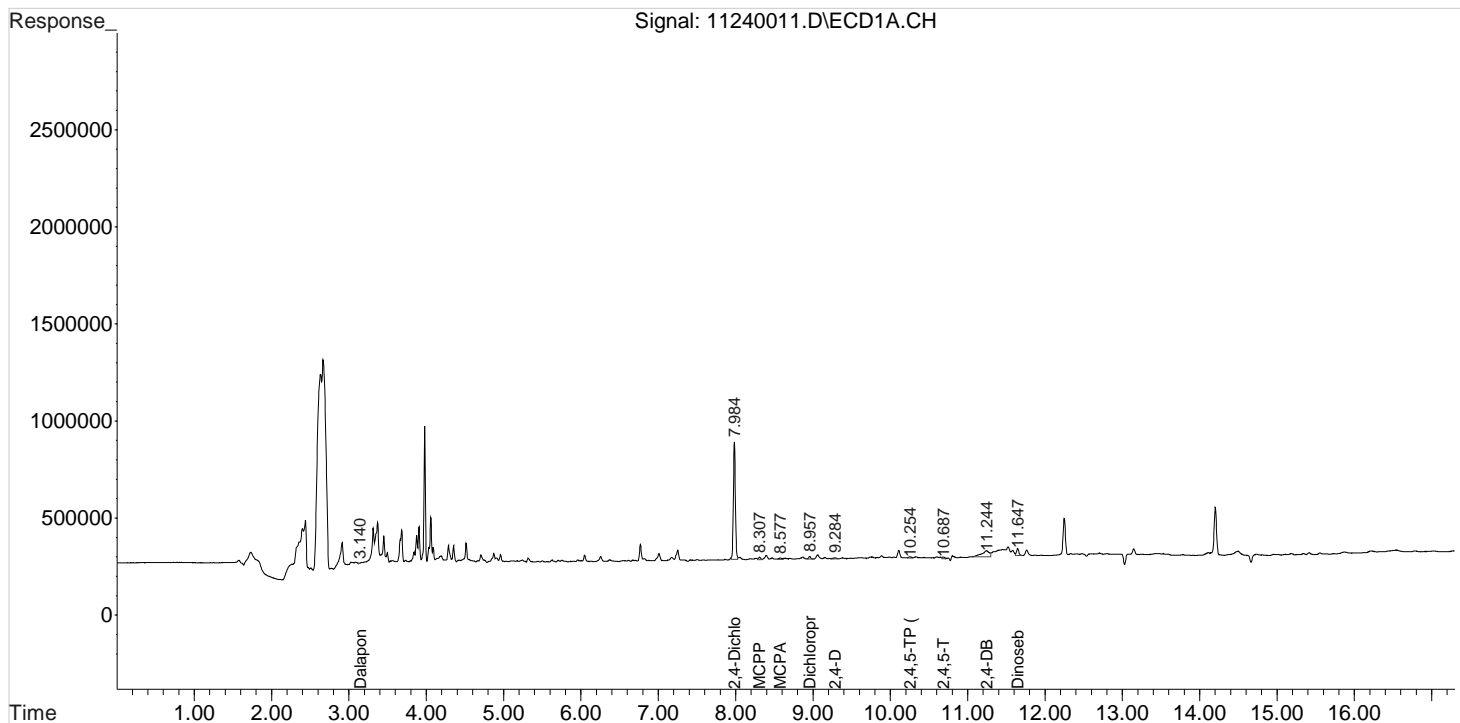
Data File : J:\gc24\data\112420\11240011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 6:42 pm
Sample : K2010308-03
Misc :

Vial: 17
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:49:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

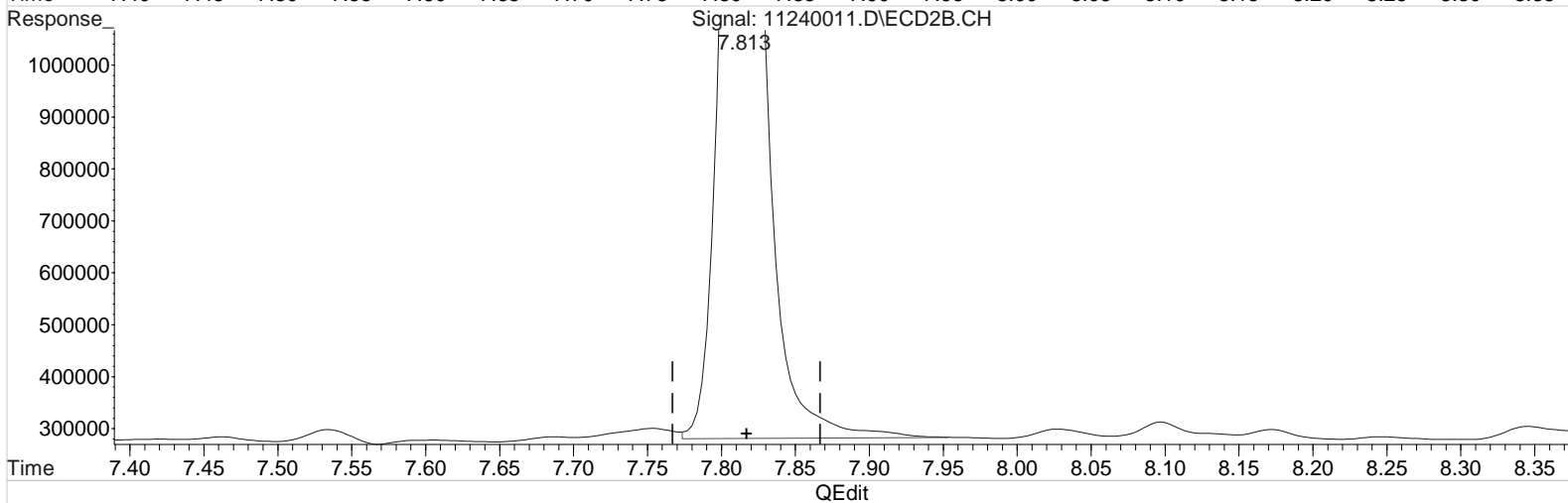
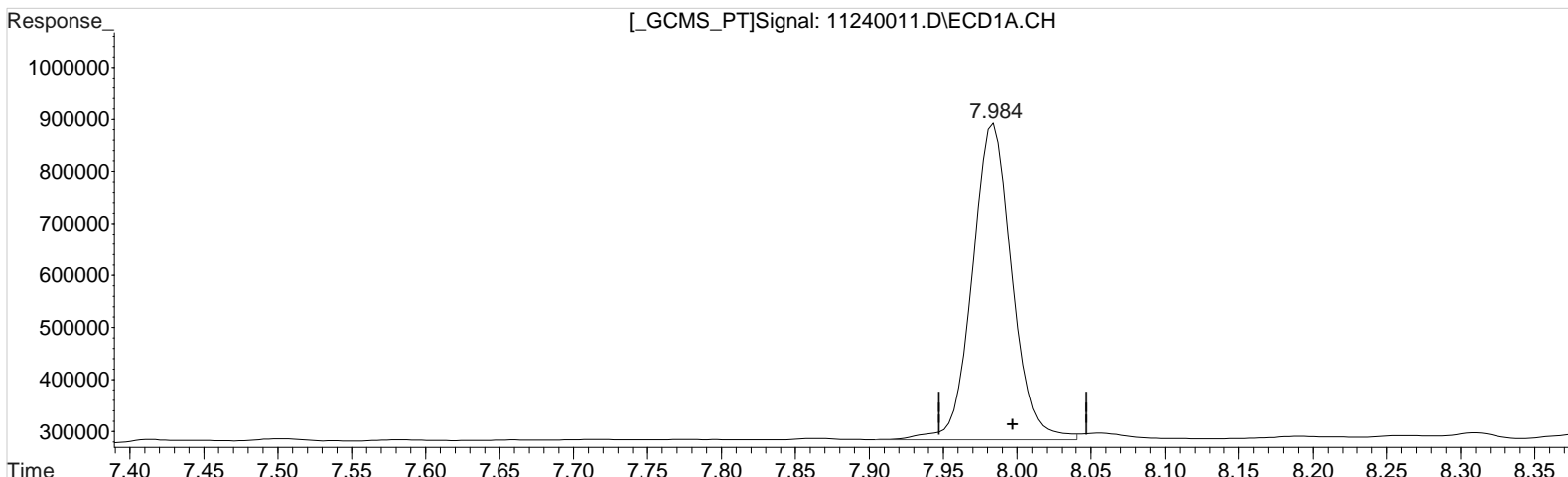
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240011.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 6:42 pm Operator: UA
 Sample : K2010308-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:40:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.984min 62.242 ppb
 response 1132594

Manual Integration:

Before

11/25/20

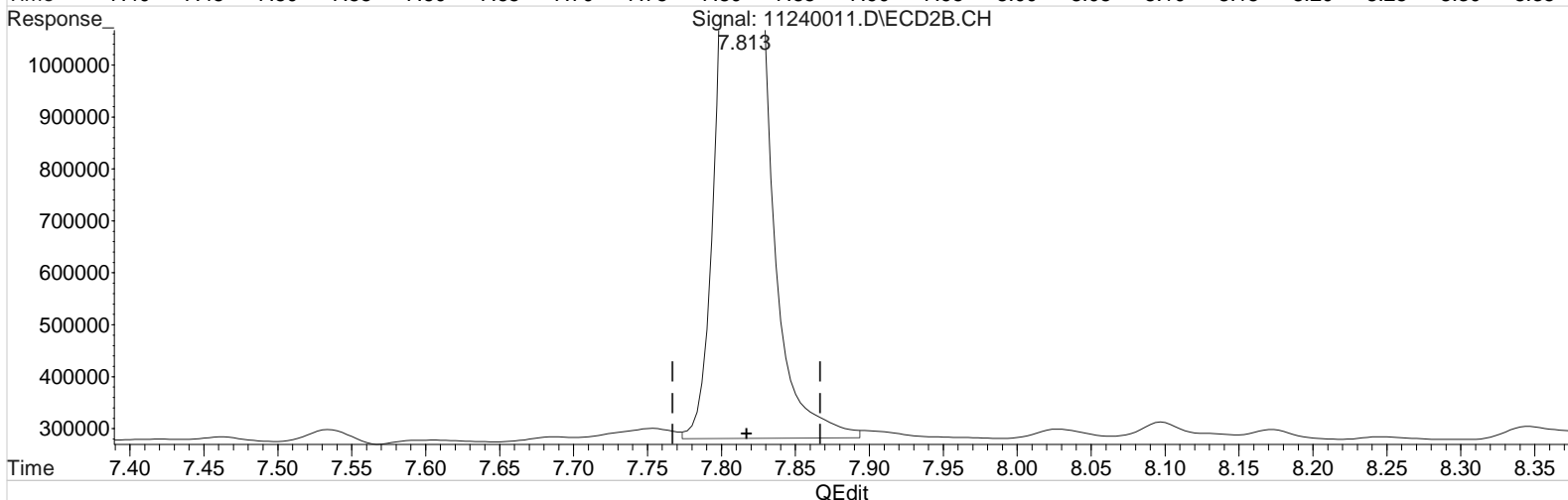
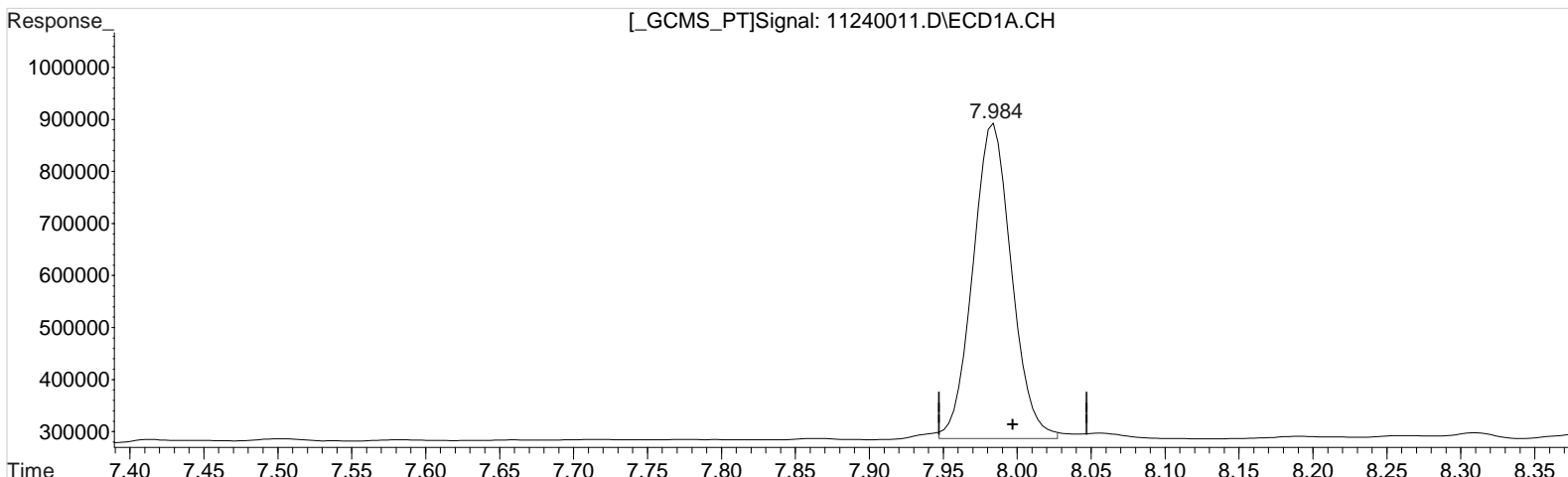
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.813min 87.134 ppb
 response 3685579

Data File : J:\gc24\data\112420\11240011.D Vial: 17
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 6:42 pm Operator: UA
 Sample : K2010308-03 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:40:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.984min 60.370 ppb m
 response 1098537

Manual Integration:

After
 Baseline/Shoulder
 11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.813min 86.585 ppb m
 response 3662377

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240012.D\
Lab ID: K2010308-004
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 19:05:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240012.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 19:05:00	Vial: 14
Run Type: N/A	Dilution: 1
Lab ID: K2010308-004	Raw Units: ppb

Bottle ID: K2010308-004.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1161220	3811449	63.815	90.110	64	90	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.13 ^{-0.01}	10755	13879	0.115	0.068	0.24U	0.14U	3.0 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.02}	13707	207816	0.645	4.059	1.3U	8.4U	9.6 U	Y

Prep Amount: 30.126 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 80.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240012.D Vial: 18
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 7:05 pm Operator: UA
 Sample : K2010308-04 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:41:14 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.992	7.822	1161220	3811449	63.815	90.110 #
Target Compounds						
1) m Dalapon	3.162f	2.872	8248	213796	0.340	4.425 #
3) m Dicamba	8.202	7.908	25056	29860	0.359	0.201 #
4) m MCPP	8.319	8.108	25700	92354	1061.819	N.D. #
5) m MCPA	8.585	8.355	14315	90621	244.481	N.D. #
6) m Dichloroprop	8.969	8.772	22554	18342	1.209	0.440 #
7) m 2,4-D	9.299	9.048	13707	207816	0.645	4.059 #
8) m 2,4,5-TP ...	10.262	10.135	10755	13879	0.115	0.068 #
9) m 2,4,5-T	10.699	10.542	15145	16283	0.184	0.085 #
10) m 2,4-DB	11.262	11.175	24280	40088	2.367	1.382 #
11) m Dinoseb	11.659	11.378f	74124	284272	1.198	2.079 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

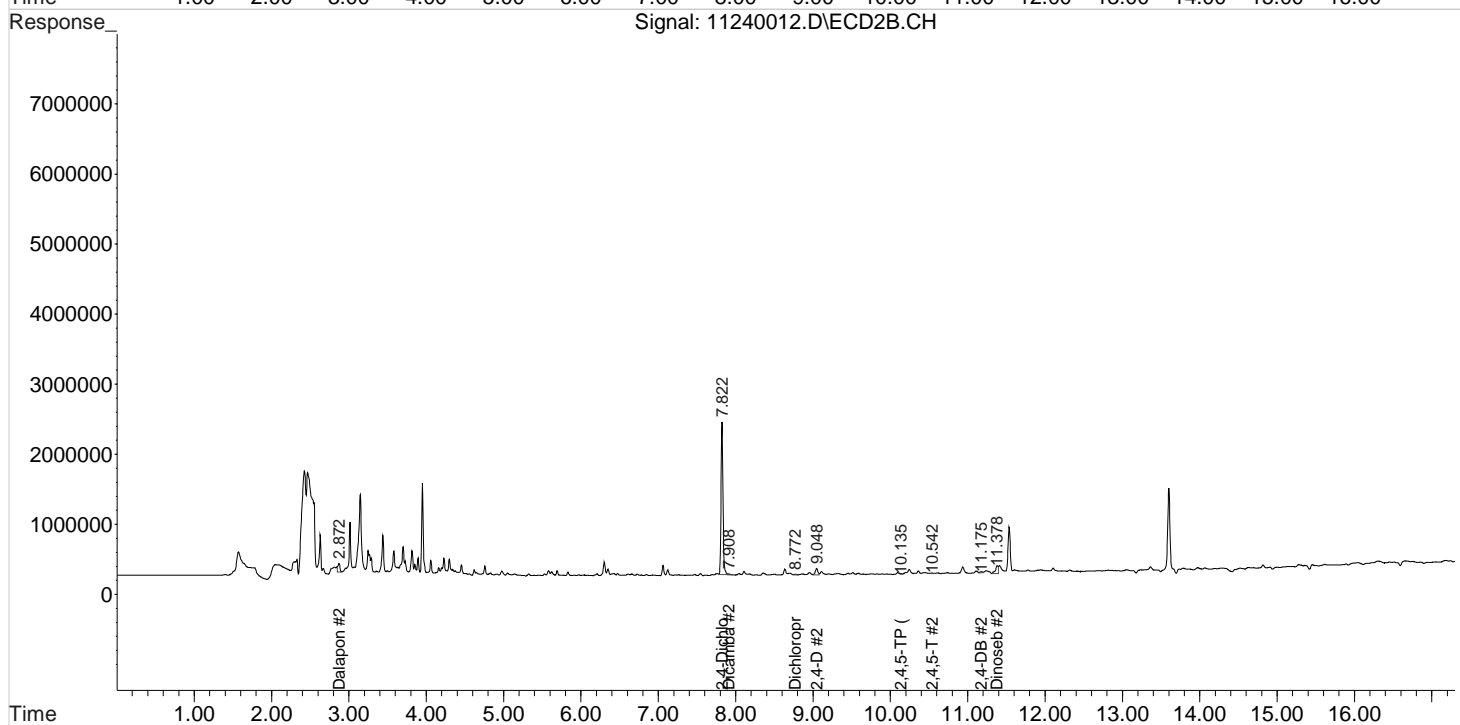
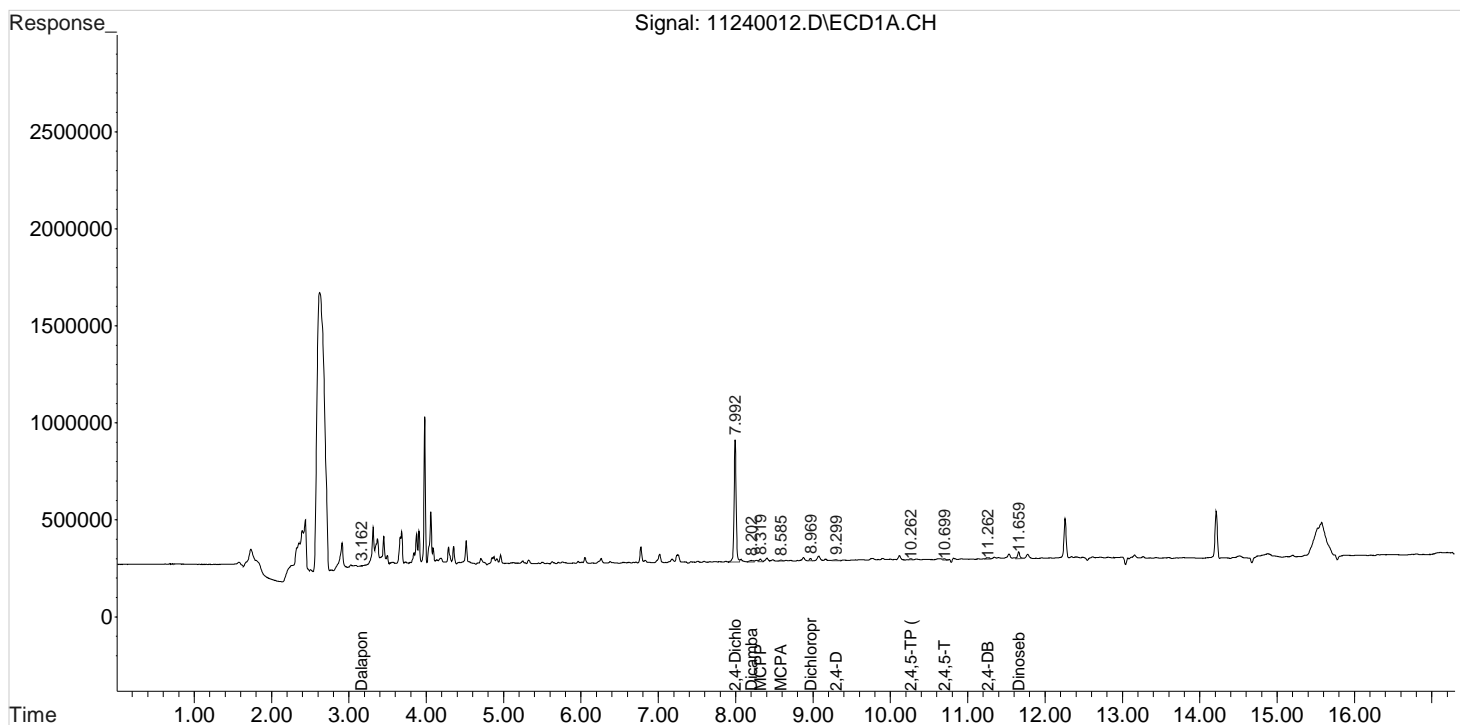
Data File : J:\gc24\data\112420\11240012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 7:05 pm
Sample : K2010308-04
Misc :

Vial: 18
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:41:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240013.D\
Lab ID: K2010308-005
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 19:28:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240013.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 19:28:00	Vial: 15
Run Type: N/A	Dilution: 1
Lab ID: K2010308-005	Raw Units: ppb

Bottle ID: K2010308-005.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1011952	3368352	55.612	79.634	56	80	56	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.13 ^{-0.01}	28462	18664	0.304	0.092	0.65U	0.20U	3.1 U	Y
2,4-D	9.29 ^{-0.03}	9.04 ^{-0.03}	6774	156726	0.319	3.061	0.68U	6.5U	9.9 U	Y

Prep Amount: 30.346 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 77.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240013.D Vial: 19
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 7:28 pm Operator: UA
 Sample : K2010308-05 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:41:43 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.992	7.821	1011952	3368352	55.612	79.634 #
Target Compounds						
1) m Dalapon	3.162f	2.871	184745	636841	7.616	13.182 #
3) m Dicamba	8.195	7.908	20786	32096	0.298	0.217 #
4) m MCPP	8.315	8.105	90082	218283	2447.267	89.886 #
5) m MCPA	8.582	8.355	14383	95193	245.643	N.D. #
6) m Dichloroprop	8.965	8.761	20508	41220	1.100	0.988
7) m 2,4-D	9.285	9.045	6774	156726	0.319	3.061 #
8) m 2,4,5-TP ...	10.262	10.128	28462	18664	0.304	0.092 #
9) m 2,4,5-T	10.695	10.538	16006	11144	0.194	0.058 #
10) m 2,4-DB	11.248	11.175	17740	41456	1.729	1.429
11) m Dinoseb	11.655	11.378f	64203	299912	1.038	2.193 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

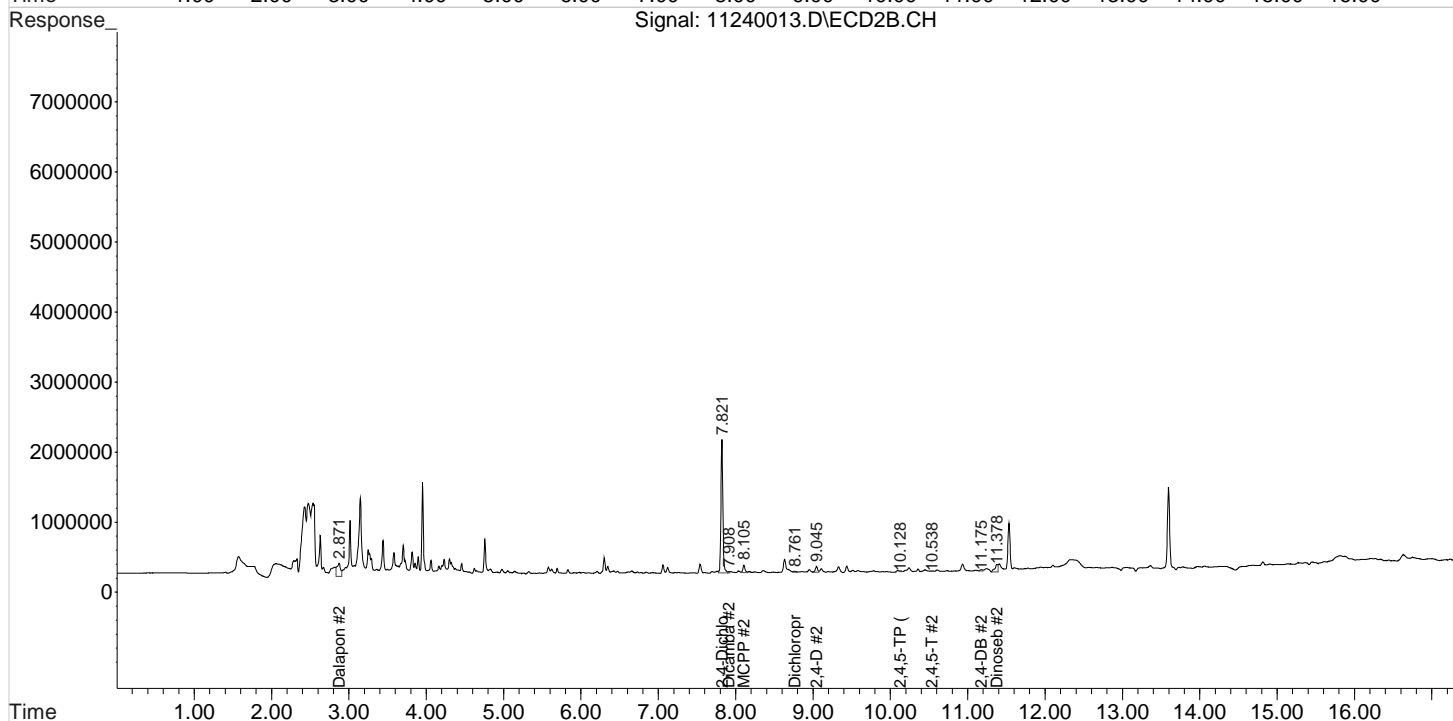
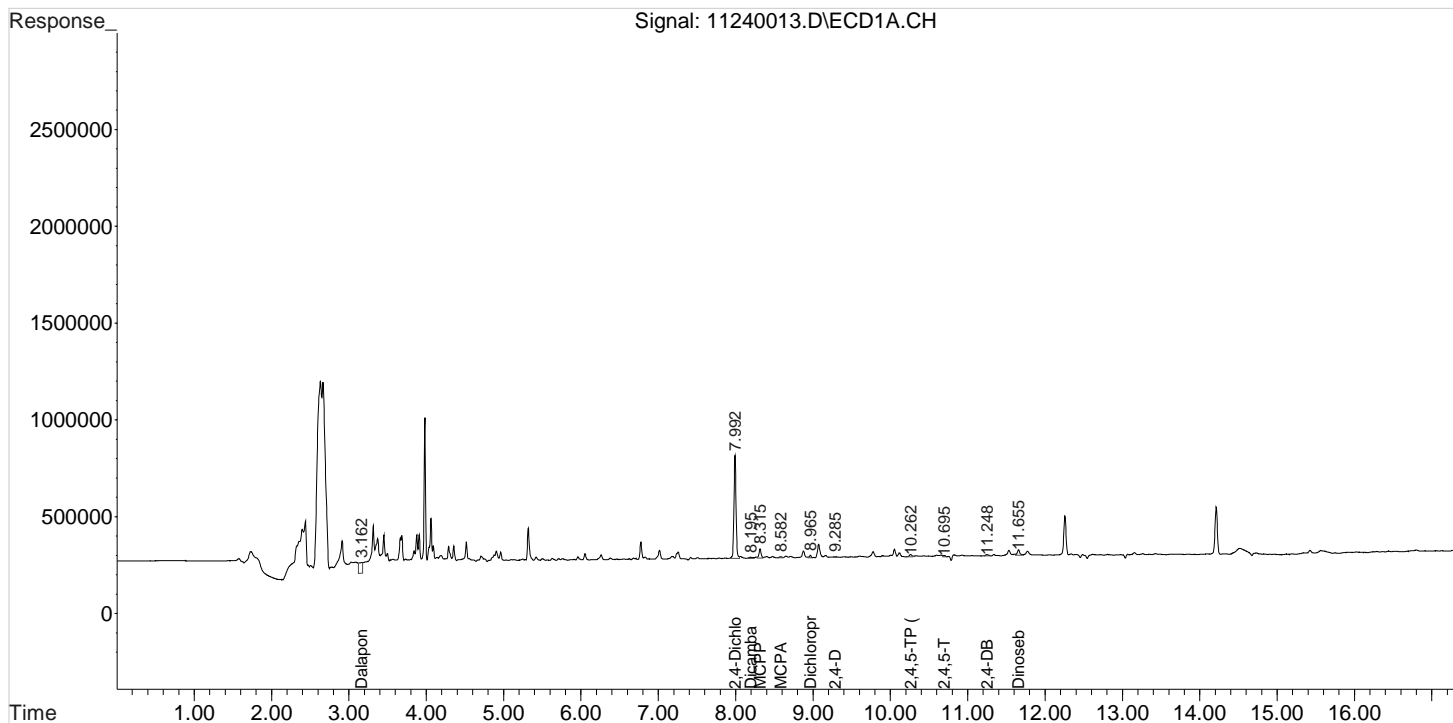
Data File : J:\gc24\data\112420\11240013.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 7:28 pm
Sample : K2010308-05
Misc :

Vial: 19
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:41:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240014.D\
Lab ID: K2010308-006
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 19:51:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240014.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 19:51:00	Vial: 16
Run Type: N/A	Dilution: 1
Lab ID: K2010308-006	Raw Units: ppb

Bottle ID: K2010308-006.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1161750	3858643	63.844	91.225	64	91	64	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.13 ^{-0.01}	11312	4830	0.121	0.024	0.27U	0.053U	3.2 U	Y
2,4-D	9.30 ^{-0.02}	9.04 ^{-0.03}	39113	236351	1.841	4.616	4.1U	10U	11 U	Y

Prep Amount: 30.221 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 74.50

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240014.D Vial: 20
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 7:51 pm Operator: UA
 Sample : K2010308-06 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:50:15 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.988	7.821	1161750	3858643	63.844	91.225 #
Target Compounds						
1) m Dalapon	3.161f	2.871	230707	228621	9.510	4.732 #
3) m Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m MCPP	8.318	8.101	17378	39897	882.737	N.D. #
5) m MCPA	8.585	8.351	15126	85647	258.332	N.D. #
6) m Dichloroprop	8.965	8.774	23814	10183	1.277	0.244 #
7) m 2,4-D	9.298	9.044	39113	236351	1.841	4.616 #
8) m 2,4,5-TP ...	10.261	10.131	11312	4830	0.121	0.024 #
9) m 2,4,5-T	10.695	10.538	5806	10503	0.070	0.055
10) m 2,4-DB	11.251	11.174	38368	31425	3.740	1.083 #
11) m Dinoseb	11.655	11.331	50753	26954	0.820	0.197 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

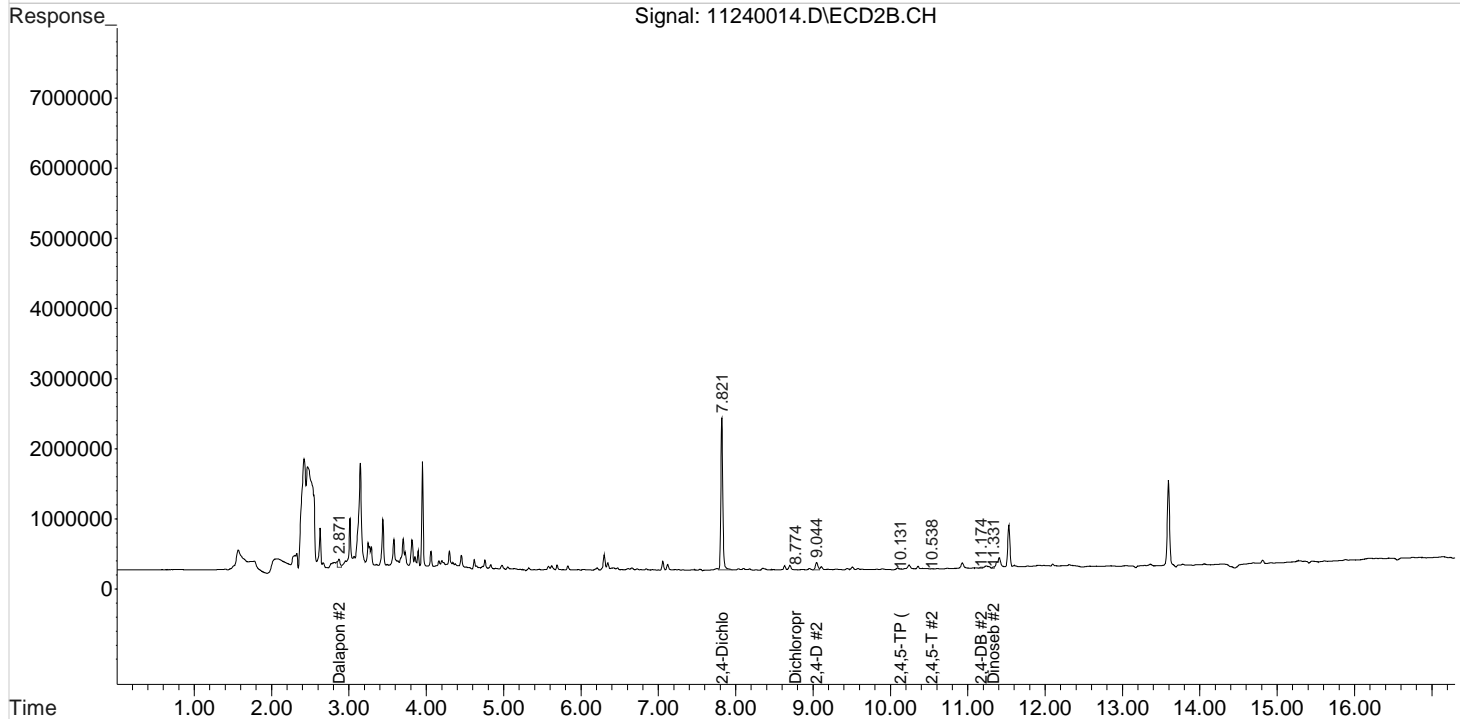
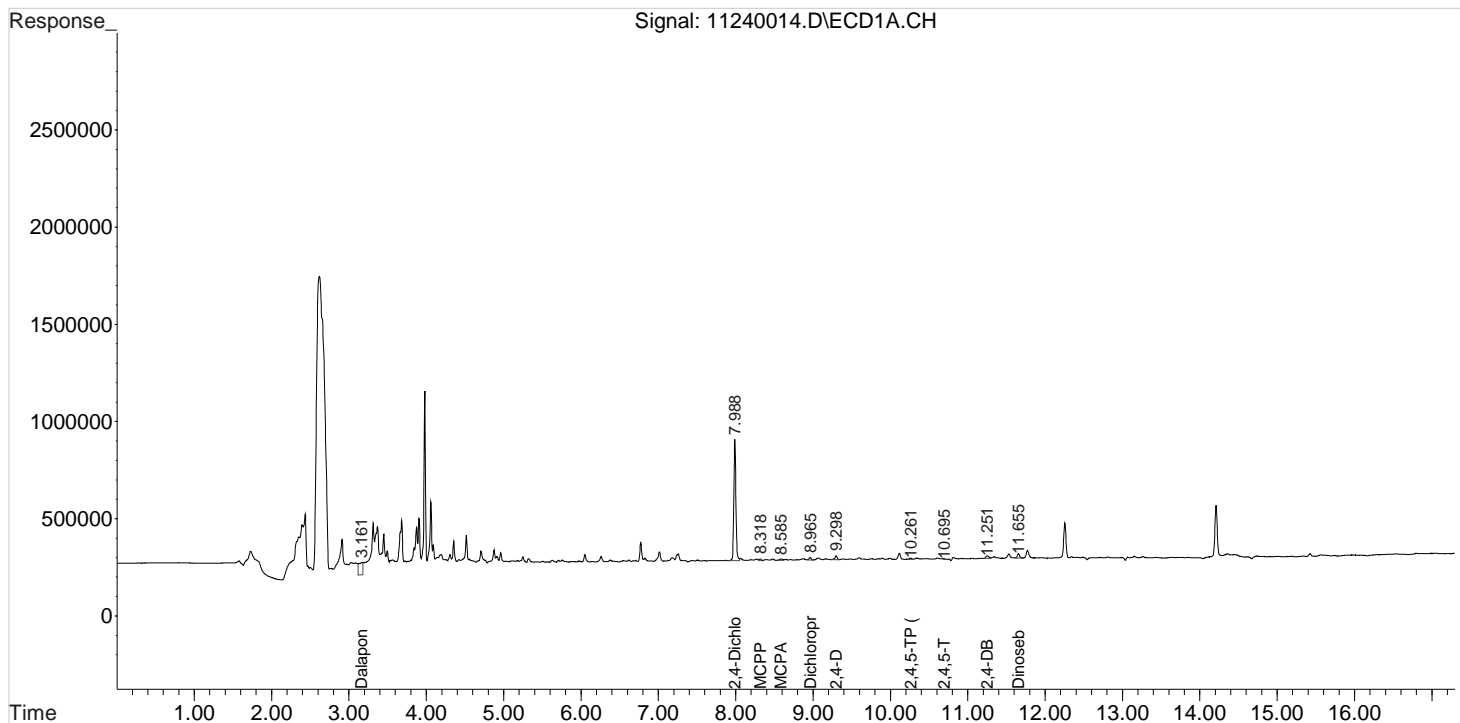
Data File : J:\gc24\data\112420\11240014.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 7:51 pm
Sample : K2010308-06
Misc :

Vial: 20
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:50:15 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240017.D\
Lab ID: K2010308-007
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 20:59:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240017.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 20:59:00	Vial: 17
Run Type: N/A	Dilution: 1
Lab ID: K2010308-007	Raw Units: ppb

Bottle ID: K2010308-007.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	976630	3331342	53.671	78.759	54	79	54	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.13	12632	11678	0.135	0.058	0.26U	0.11U	2.8 U	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.01}	40496	200974	1.907	3.925	3.6U	7.5U	8.8 U	Y

Prep Amount: 30.122 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 87.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240017.D Vial: 21
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 8:59 pm Operator: UA
 Sample : K2010308-007 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:50:30 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.990	7.820	976630	3331342	53.671	78.759 #
Target Compounds						
1) m Dalapon	3.137	2.870	31001	566096	1.278	11.717 #
3) m Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m MCPP	8.317	8.103	6593	25744	650.653	N.D. #
5) m MCPA	8.593	8.350	12914	76547	220.554	N.D. #
6) m Dichloroprop	8.967	8.783	23345	6749	1.252	0.162 #
7) m 2,4-D	9.300	9.050	40496	200974	1.907	3.925 #
8) m 2,4,5-TP ...	10.263	10.130	12632	11678	0.135	0.058 #
9) m 2,4,5-T	10.657	10.540	30804	45868	0.373	0.240 #
10) m 2,4-DB	11.260	11.180	37495	24292	3.655	0.837 #
11) m Dinoseb	11.657	11.380f	36097	277286	0.583	2.028 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

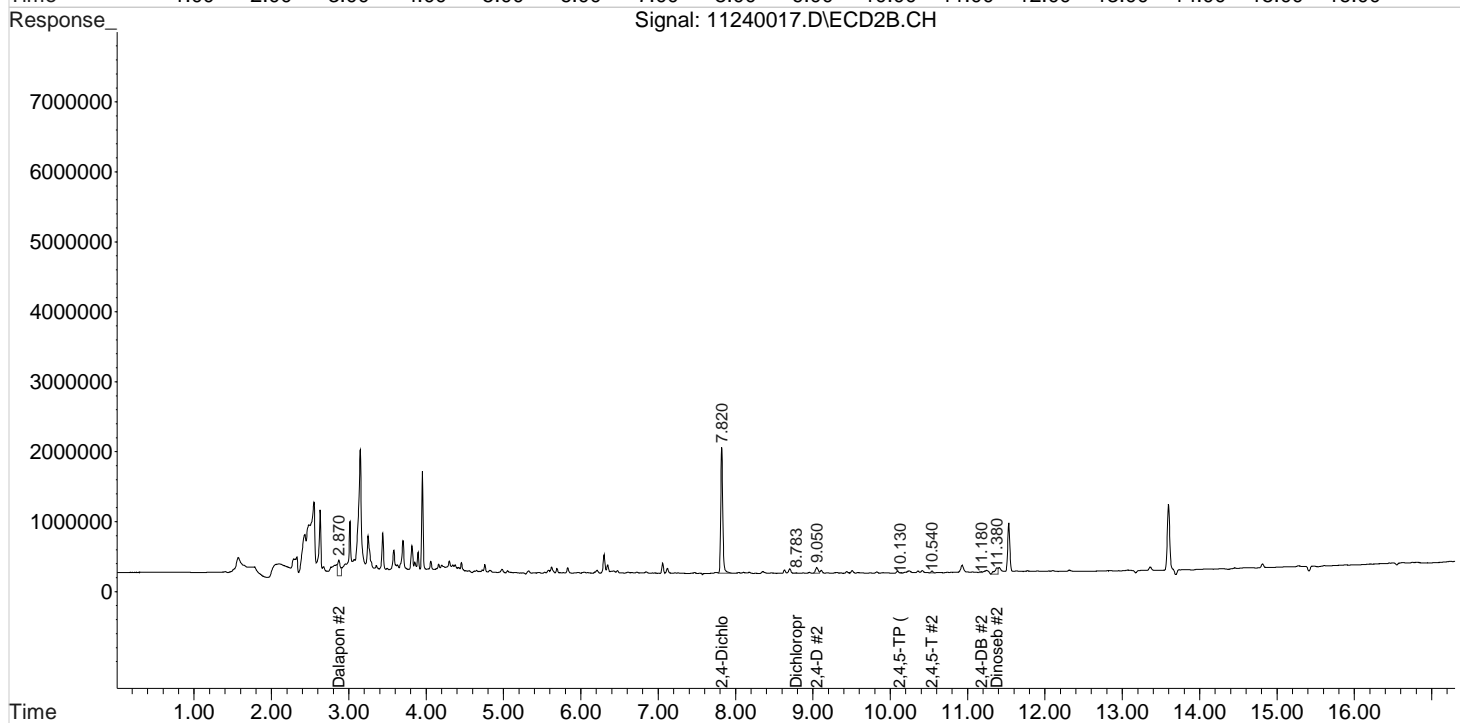
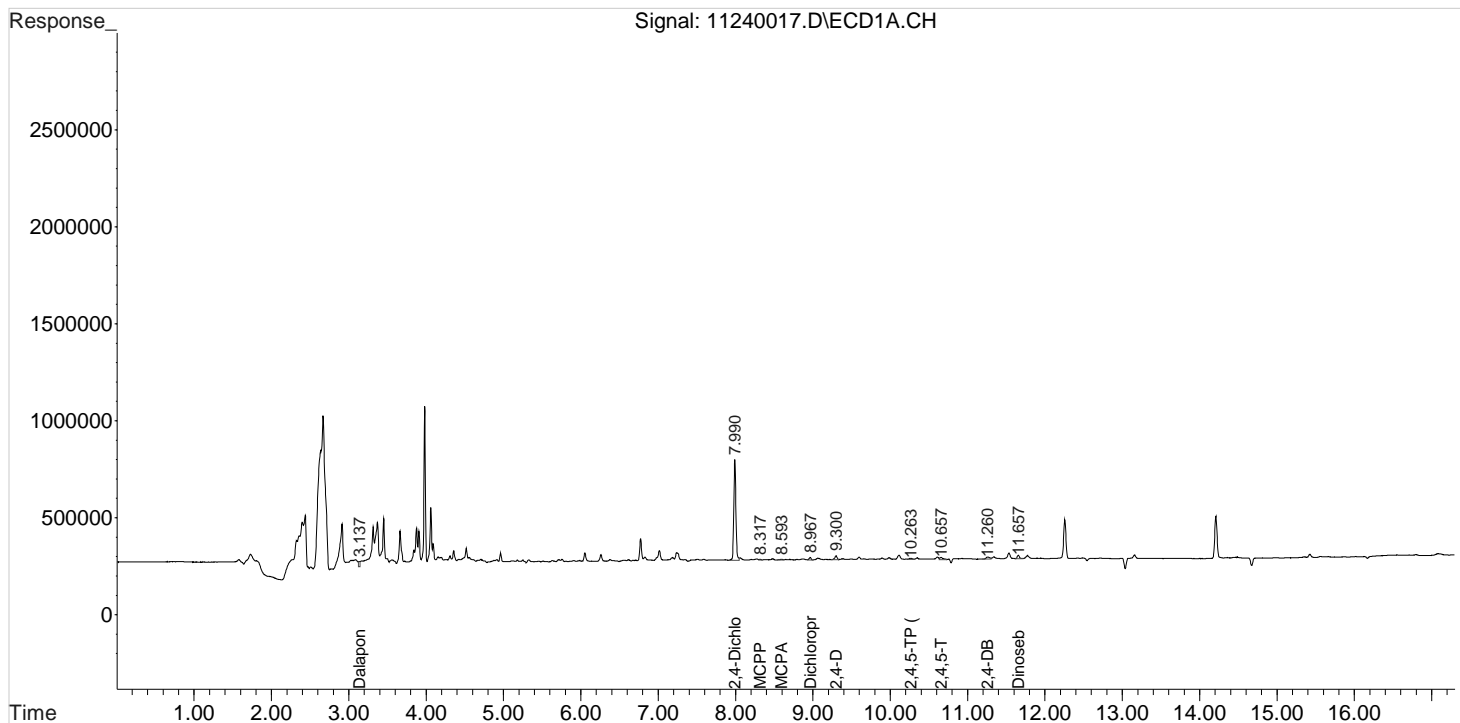
Data File : J:\gc24\data\112420\11240017.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 8:59 pm
Sample : K2010308-007
Misc :

Vial: 21
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:50:30 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240018.D\
Lab ID: K2010308-008
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 21:22:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240018.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 21:22:00	Vial: 18
Run Type: N/A	Dilution: 1
Lab ID: K2010308-008	Raw Units: ppb

Bottle ID: K2010308-008.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1079529	3700753	59.326	87.493	59	87	59	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.12 ^{-0.01}	12206	6276	0.130	0.031	0.27U	0.065U	3.1 U	Y
2,4-D	9.29 ^{-0.03}	9.03 ^{-0.03}	43818	207707	2.063	4.057	4.3U	8.5U	9.7 U	Y

Prep Amount: 30.023 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 79.70

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240018.D Vial: 22
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 9:22 pm Operator: UA
 Sample : K2010308-008 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:43:46 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.982	7.811	1079529	3700753	59.326	87.493 #
Target Compounds						
1) m Dalapon	3.162f	2.871	197504	156863	8.142	3.247 #
3) m Dicamba	8.192	0.000	11898	0	0.170	N.D. #
4) m MCPP	8.308	8.091	9748	32266	718.546	N.D. #
5) m MCPA	8.582	8.341	13495	72343	230.477	N.D. #
6) m Dichloroprop	8.955	8.771	23254	6568	1.247	0.157 #
7) m 2,4-D	9.288	9.035	43818	207707	2.063	4.057 #
8) m 2,4,5-TP ...	10.252	10.121	12206	6276	0.130	0.031 #
9) m 2,4,5-T	10.745	10.528	29822	17570	0.361	0.092 #
10) m 2,4-DB	11.328	11.161	26519	27431	2.585	0.945 #
11) m Dinoseb	11.642	11.395f	33040	574710	0.534	4.202 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

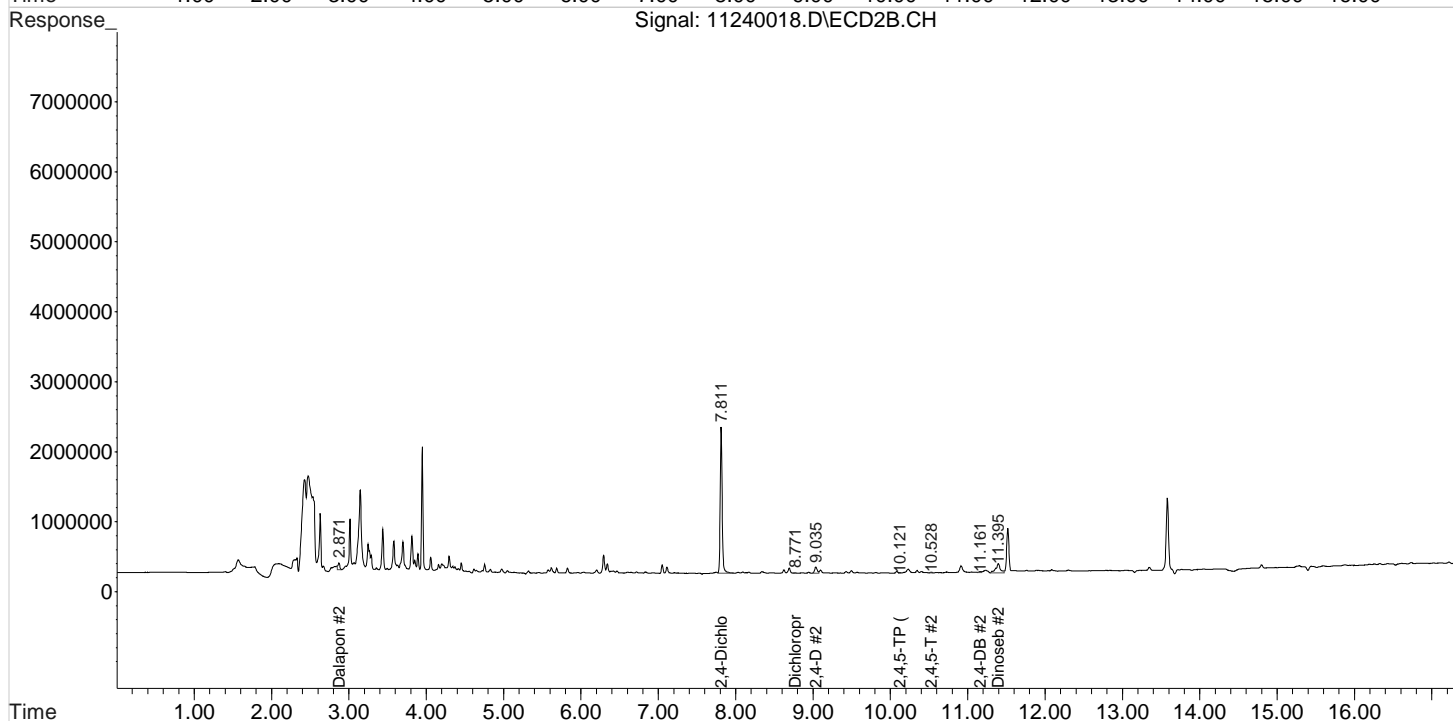
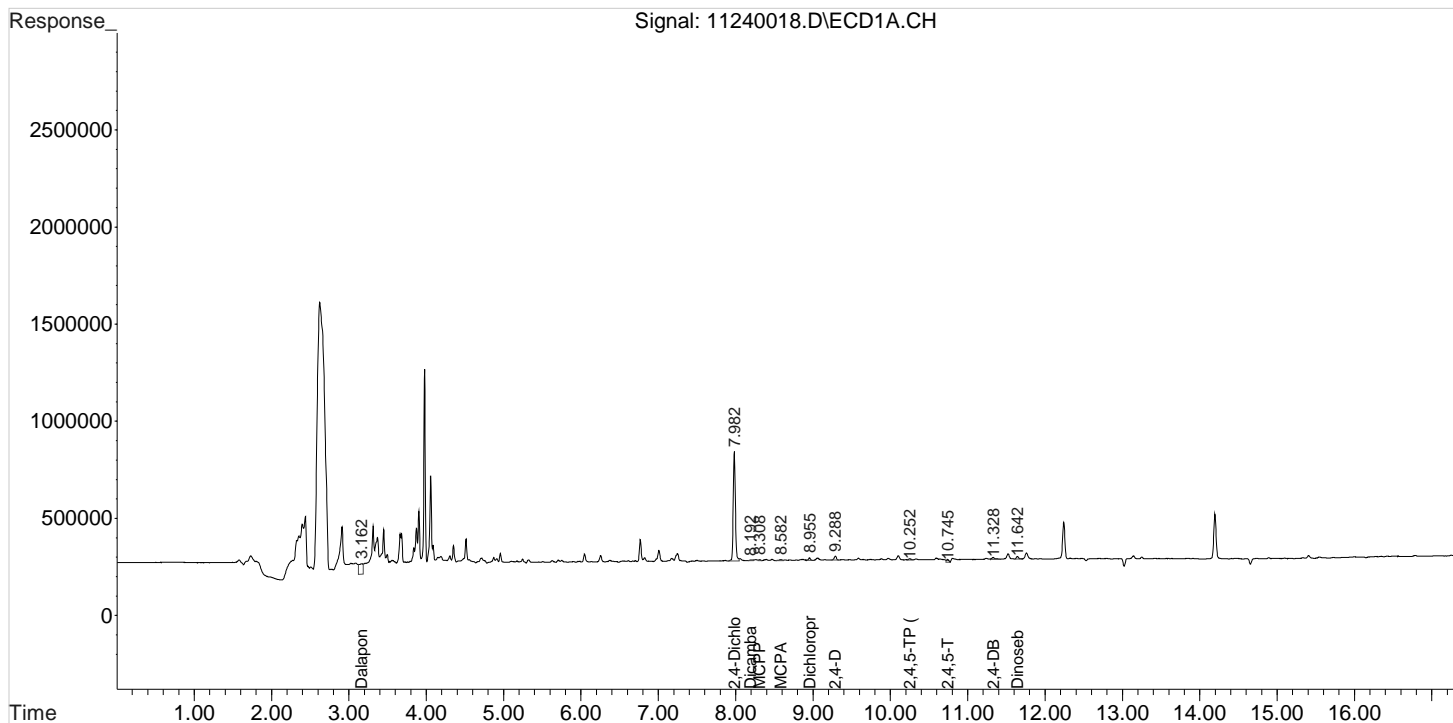
Data File : J:\gc24\data\112420\11240018.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 9:22 pm
Sample : K2010308-008
Misc :

Vial: 22
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:43:46 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240019.D\
Lab ID: K2010308-009
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 21:45:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240019.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 21:45:00	Vial: 19
Run Type: N/A	Dilution: 1
Lab ID: K2010308-009	Raw Units: ppb

Bottle ID: K2010308-009.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1209309	3828335	66.458	90.509	66	91	66	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	26778	826152	0.286	4.070	1.0U	15J	5.3 U	Y
2,4-D	9.33 ^{+0.01}	9.04 ^{-0.02}	28582	210462	1.346	4.111	4.9U	15U	17 U	Y

Prep Amount: 30.010 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 45.50

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240019.D Vial: 23
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 9:45 pm Operator: UA
 Sample : K2010308-009 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:44:04 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.983	7.812	1209309	3828335	66.458	90.509 #
Target Compounds						
1) m Dalapon	3.136	2.872	16573	248105	0.683	5.135 #
3) m Dicamba	8.256	7.922	32373	145338	0.464	0.981 #
4) m MCPP	8.306	8.096	346769	349060	7970.959	993.736 #
5) m MCPA	8.629f	8.346	62466	164645	1066.837	N.D. #
6) m Dichloroprop	8.956	8.766	14908	131924	0.799	3.162 #
7) m 2,4-D	9.329	9.039	28582	210462	1.346	4.111 #
8) m 2,4,5-TP ...	10.249	10.086	26778	826152	0.286	4.070 #
9) m 2,4,5-T	10.683	10.532	255416	15555	3.096	0.081 #
10) m 2,4-DB	11.266	11.176	17358	160916	1.692	5.546 #
11) m Dinoseb	11.649	11.369	94138	1160066	1.522	8.483 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

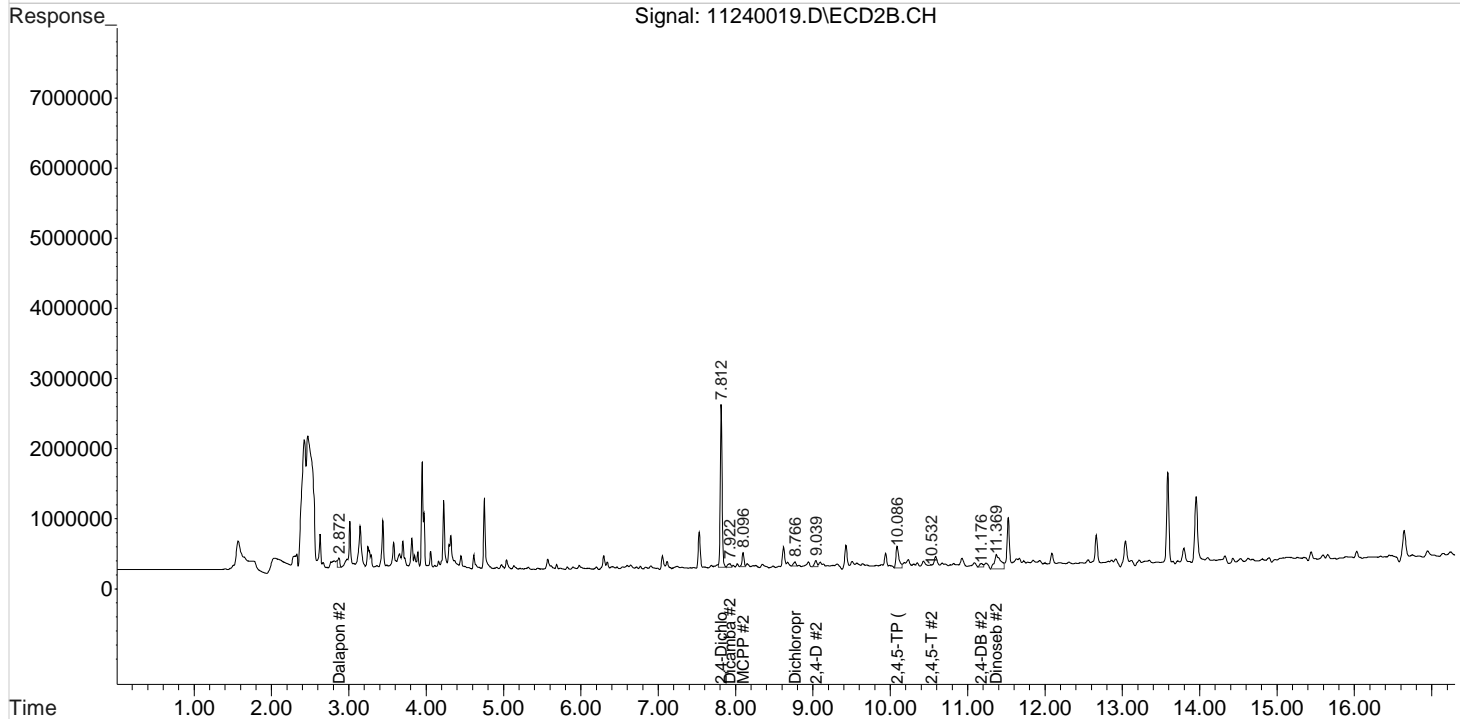
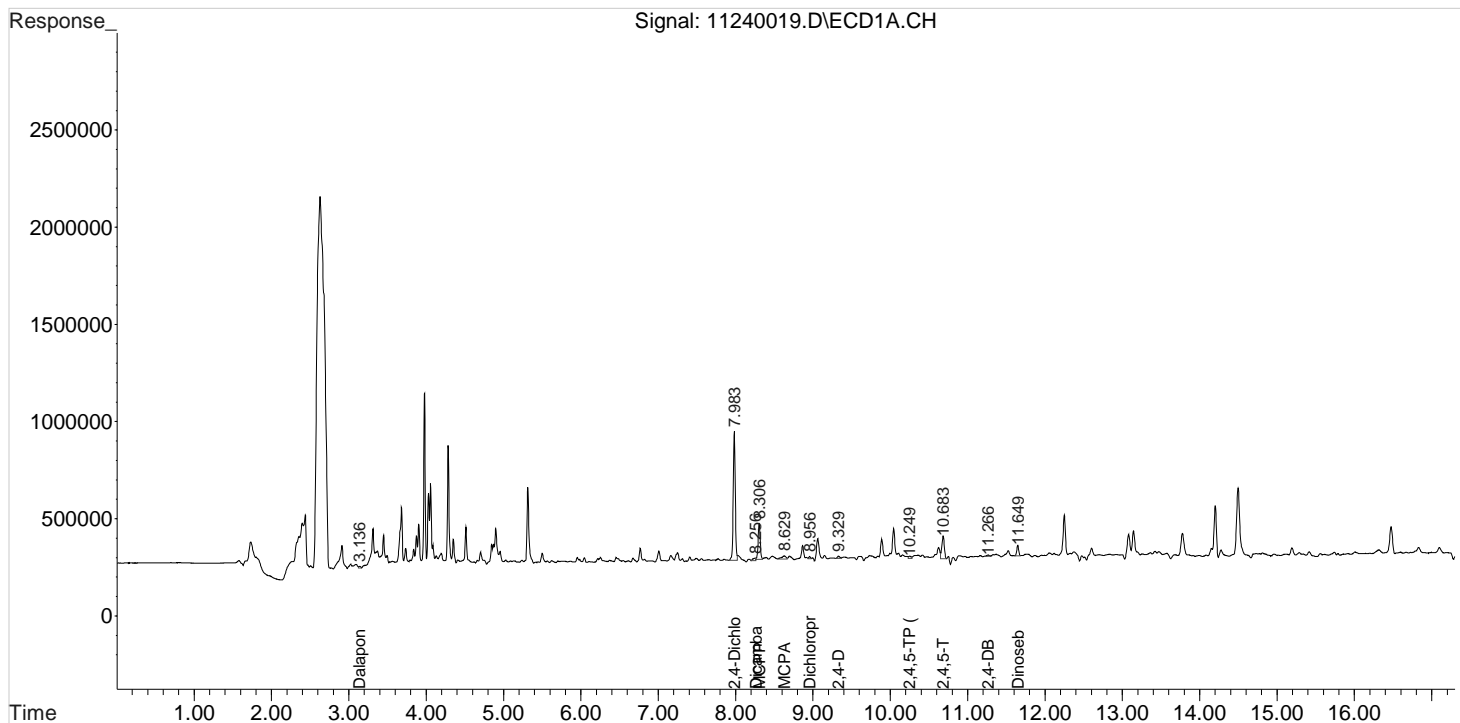
Data File : J:\gc24\data\112420\11240019.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 9:45 pm
Sample : K2010308-009
Misc :

Vial: 23
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:44:04 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240020.D\
Lab ID: K2010308-010
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 22:08:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240020.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 22:08:00	Vial: 20
Run Type: N/A	Dilution: 1
Lab ID: K2010308-010	Raw Units: ppb

Bottle ID: K2010308-010.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1306485	3662617	71.798	86.591	72	87	72	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	23197	1068462	0.248	5.263	0.79U	17J	4.7 U	Y
2,4-D	9.33 ^{+0.01}	9.04 ^{-0.02}	23296	284621	1.097	5.559	3.5U	18J	15 U	Y

Prep Amount: 30.112 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 51.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240020.D Vial: 24
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 10:08 pm Operator: UA
 Sample : K2010308-010 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:44:44 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.986	7.815	1306485	3662617	71.798	86.591m
Target Compounds						
1) m Dalapon	3.129	2.872	16984	354699	0.700	7.342 #
3) m Dicamba	8.229	7.929	10425	178263	0.149	1.203 #
4) m MCPP	8.306	8.099	562480	886287	12612.881	4706.717 #
5) m MCPA	8.606	8.352	123890	305702	2115.878	N.D. #
6) m Dichloroprop	8.959	8.765	15394	308488	0.826	7.395 #
7) m 2,4-D	9.329	9.039	23296	284621	1.097	5.559 #
8) m 2,4,5-TP ...	10.249	10.089	23197	1068462	0.248	5.263 #
9) m 2,4,5-T	10.686	10.532	157068	91371	1.904	0.477 #
10) m 2,4-DB	11.262	11.175	49902	401880	4.864	13.850 #
11) m Dinoseb	11.709	11.372f	19605	238466	0.317	1.744 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

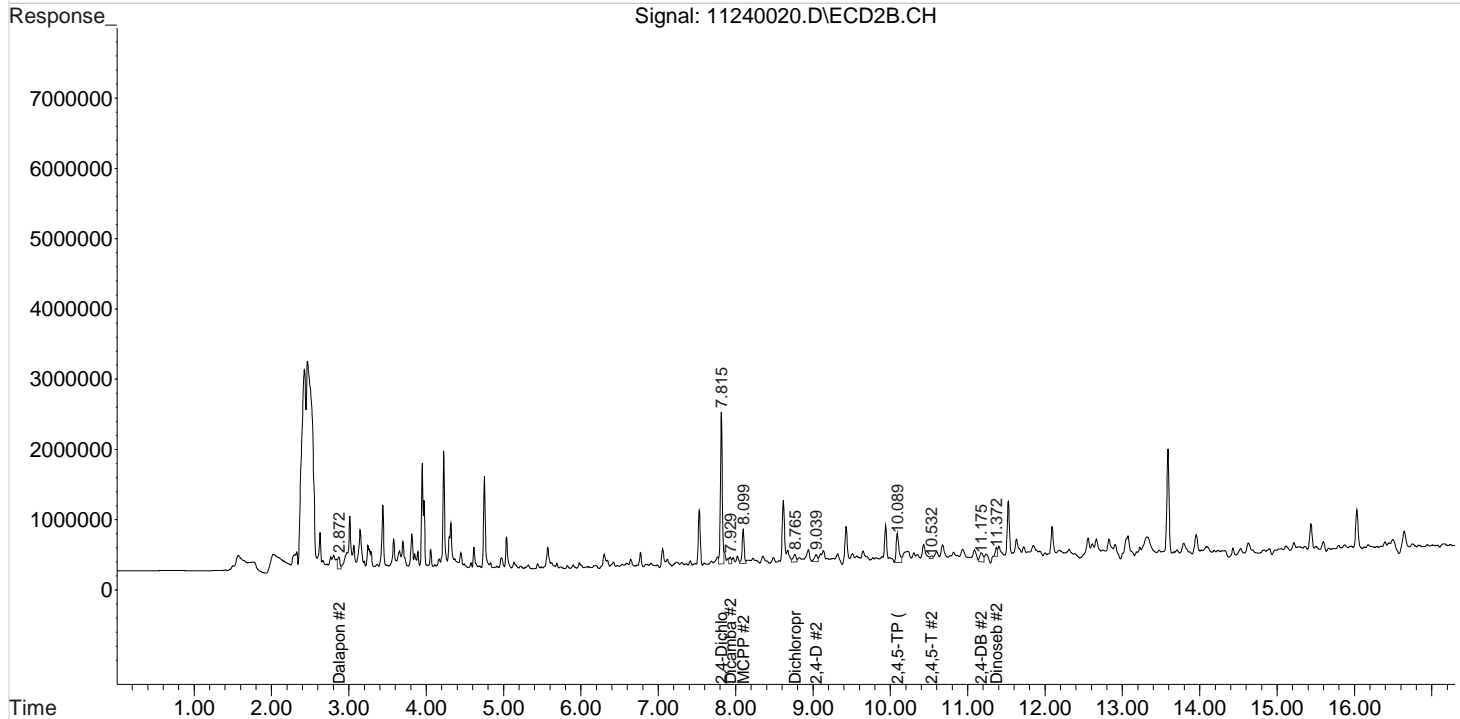
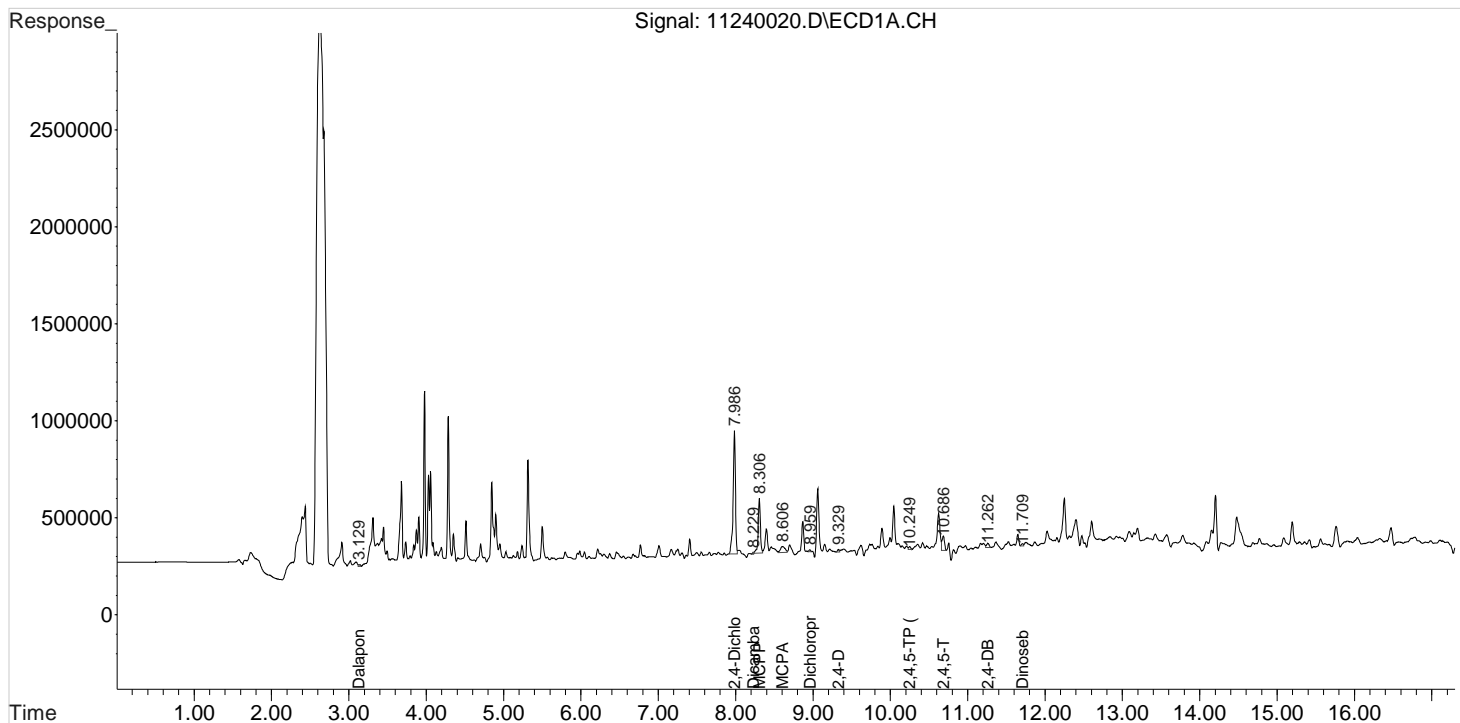
Data File : J:\gc24\data\112420\11240020.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:08 pm
Sample : K2010308-010
Misc :

Vial: 24
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:44:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

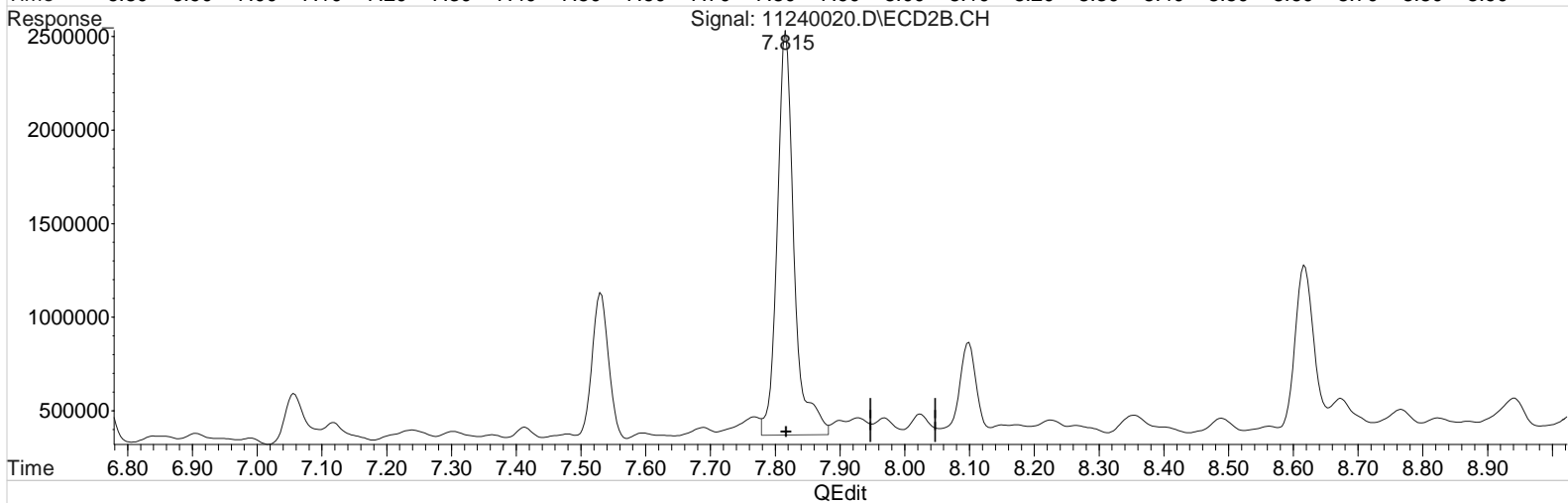
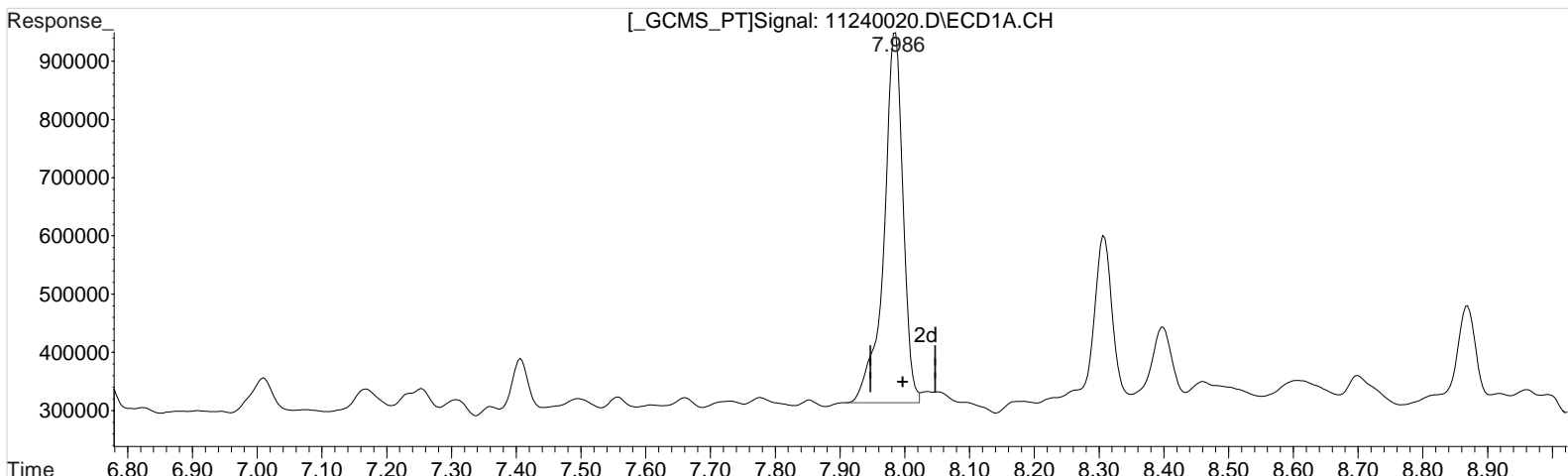
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240020.D Vial: 24
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:08 pm Operator: UA
Sample : K2010308-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:44:25 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 71.798 ppb
response 1306485

Manual Integration:

Before

11/25/20

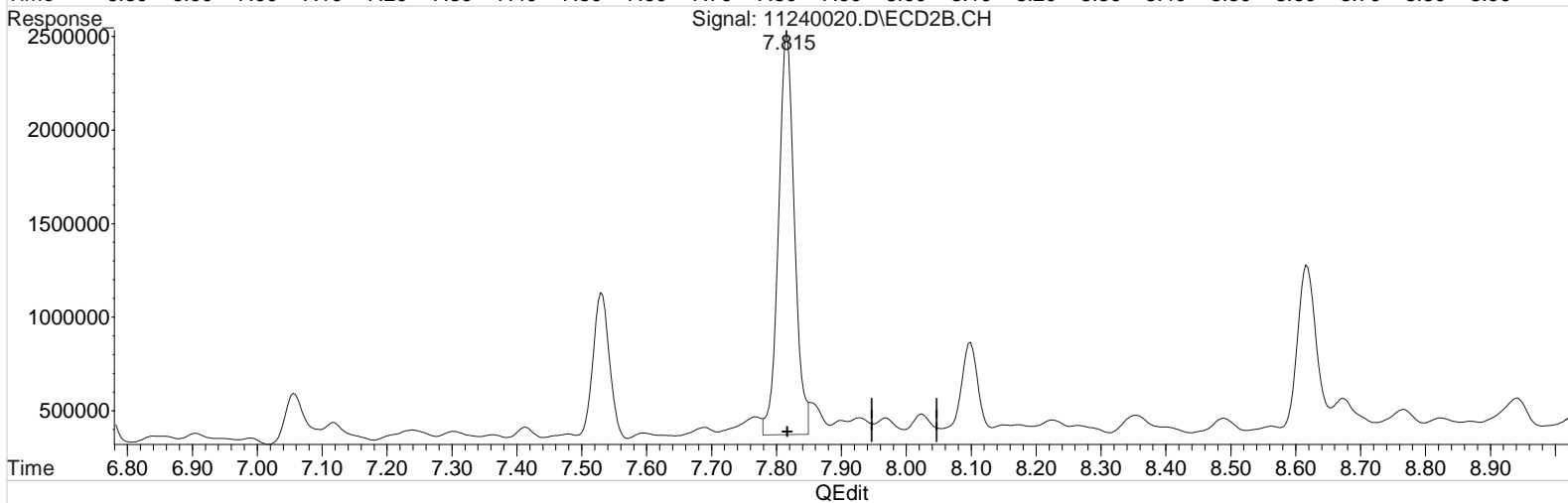
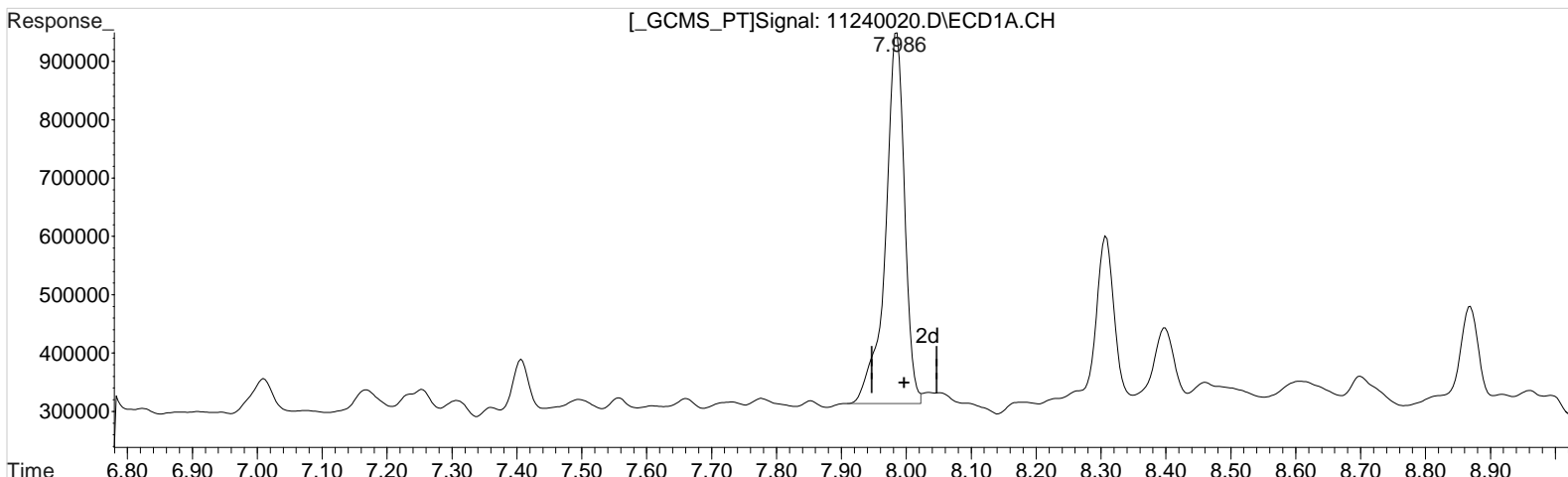
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.815min 92.141 ppb
response 3897369

Data File : J:\gc24\data\112420\11240020.D Vial: 24
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:08 pm Operator: UA
Sample : K2010308-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:44:25 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 71.798 ppb
response 1306485

Manual Integration:

After
Baseline/Shoulder
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.815min 86.591 ppb m
response 3662617

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240021.D\
Lab ID: K2010308-011
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 22:30:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240021.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 22:30:00	Vial: 21
Run Type: N/A	Dilution: 1
Lab ID: K2010308-011	Raw Units: ppb

Bottle ID: K2010308-011.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1339553	3732991	73.616	88.255	74	88	74	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	33811	1327337	0.361	6.539	1.1U	21J	4.6 U	Y
2,4-D	9.33 ^{+0.01}	9.03 ^{-0.03}	30878	254900	1.454	4.979	4.6U	16J	15 U	Y

Prep Amount: 30.071 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 52.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240021.D Vial: 25
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 10:30 pm Operator: UA
 Sample : K2010308-011 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:45:32 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.986	7.815	1339553	3732991	73.616m	88.255m
Target Compounds						
1) m Dalapon	3.096f	2.872	85721	298804	3.534	6.185 #
3) m Dicamba	8.186	7.932	55220	47879	0.791	0.323 #
4) m MCPP	8.309	8.099	576081	361915	12905.564	1082.581 #
5) m MCPA	8.616f	8.349	104727	243596	1788.599	N.D. #
6) m Dichloroprop	8.962	8.769	17945	197957	0.962	4.745 #
7) m 2,4-D	9.326	9.029	30878	254900	1.454	4.979 #
8) m 2,4,5-TP ...	10.252	10.092	33811	1327337	0.361	6.539 #
9) m 2,4,5-T	10.686	10.602f	138240	236874	1.675	1.238 #
10) m 2,4-DB	11.262	11.179	35522	265511	3.462	9.151 #
11) m Dinoseb	11.652	11.332	103514	119123	1.673	0.871 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

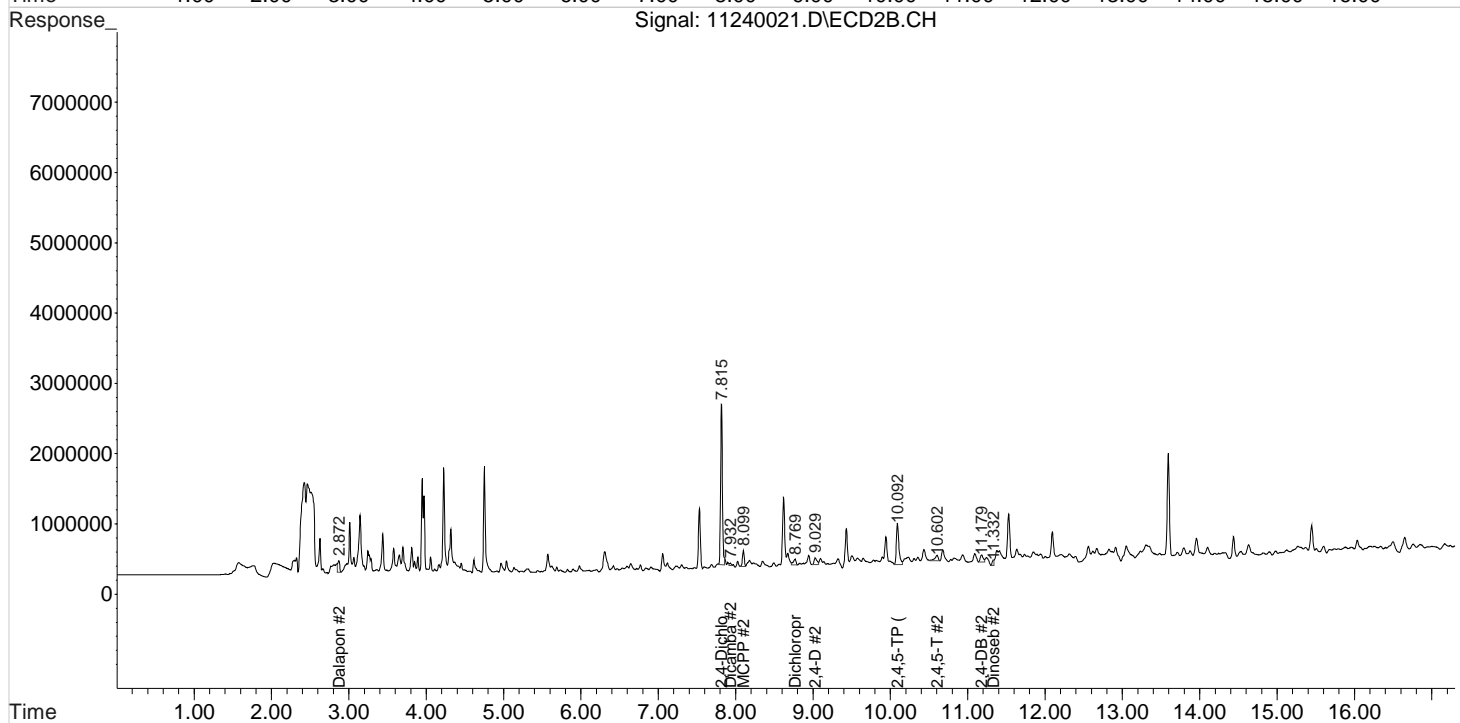
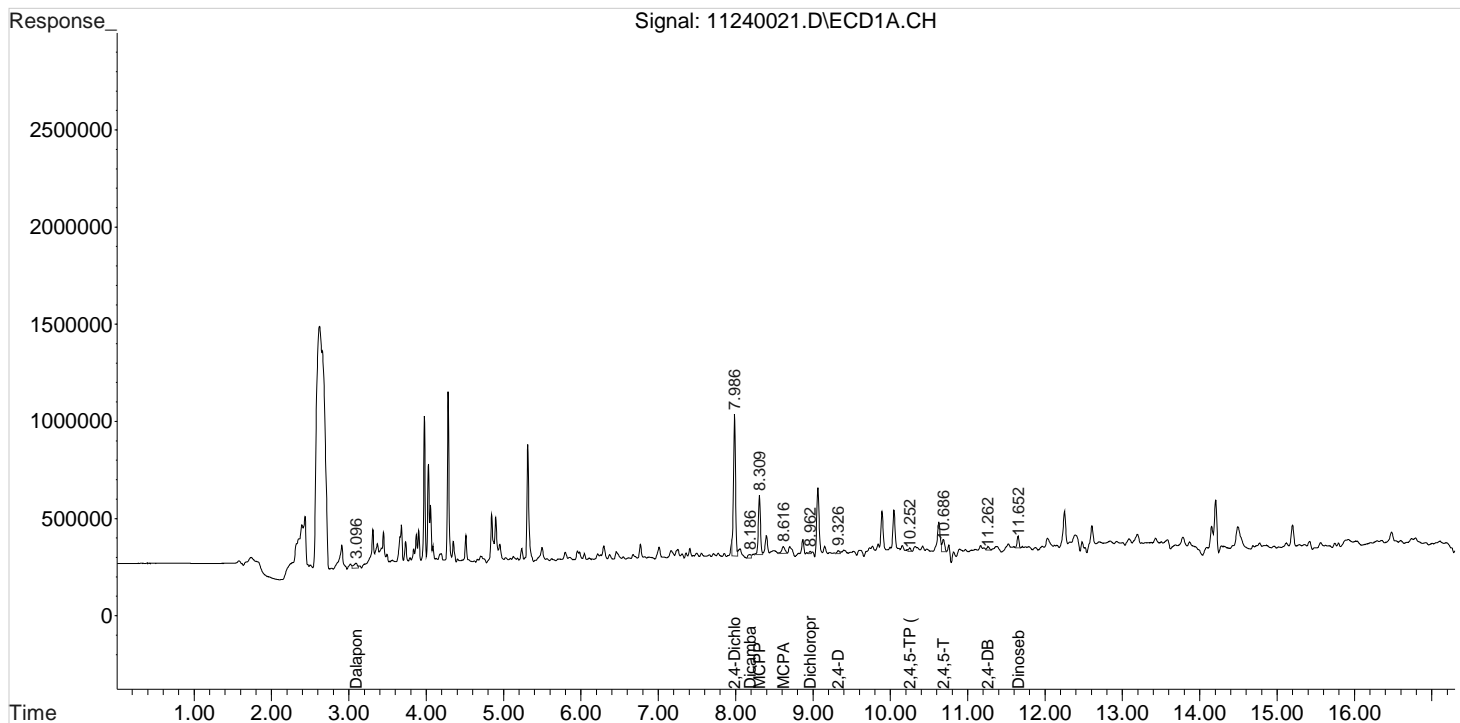
Data File : J:\gc24\data\112420\11240021.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:30 pm
Sample : K2010308-011
Misc :

Vial: 25
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:45:32 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

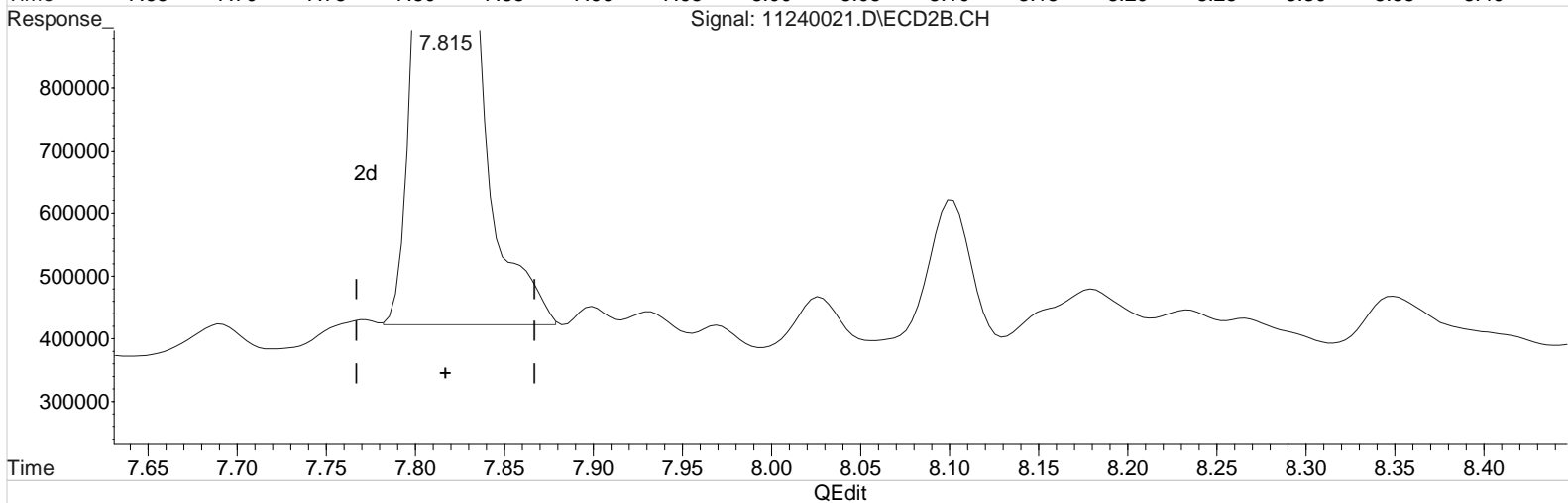
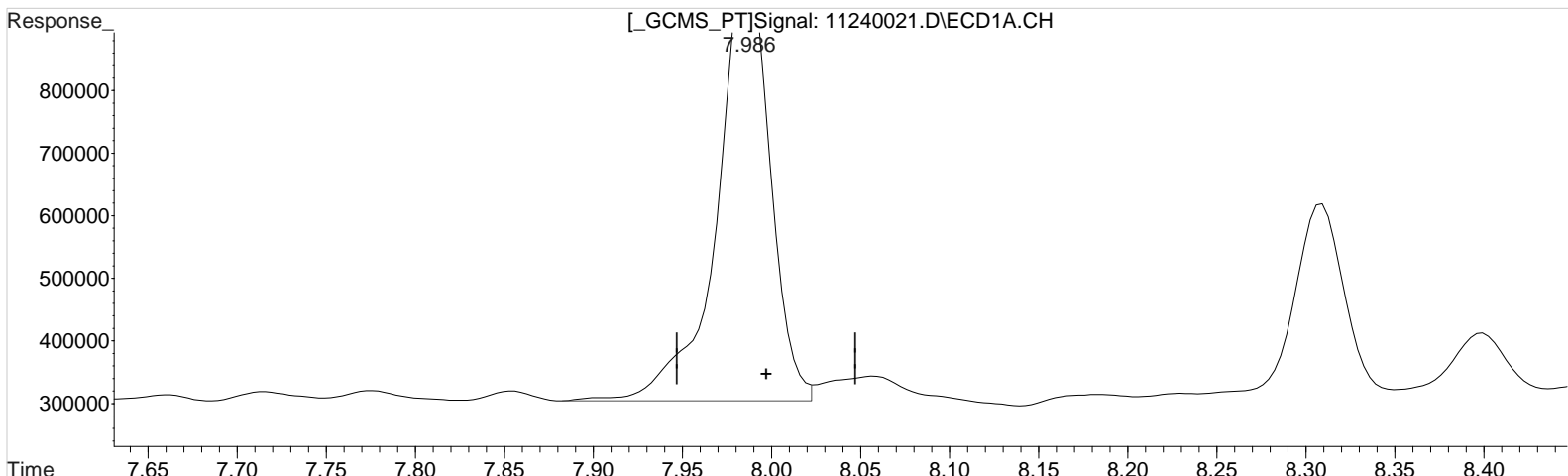
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240021.D Vial: 25
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 10:30 pm Operator: UA
 Sample : K2010308-011 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:45:01 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 79.581 ppb
 response 1448107

Manual Integration:

Before

11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

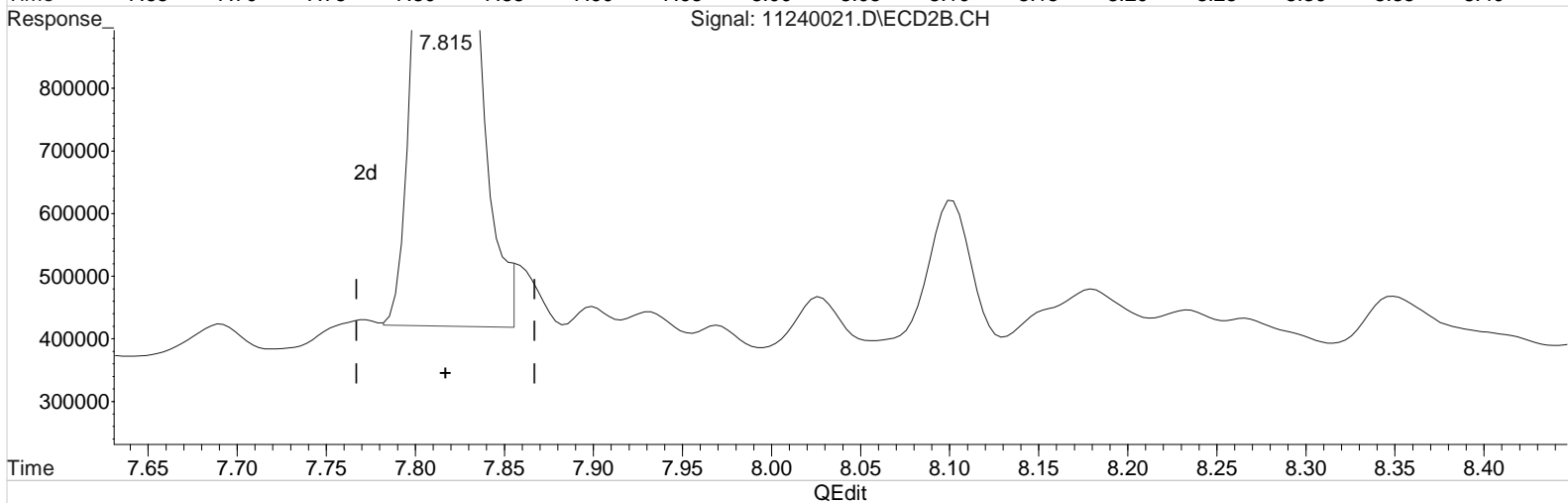
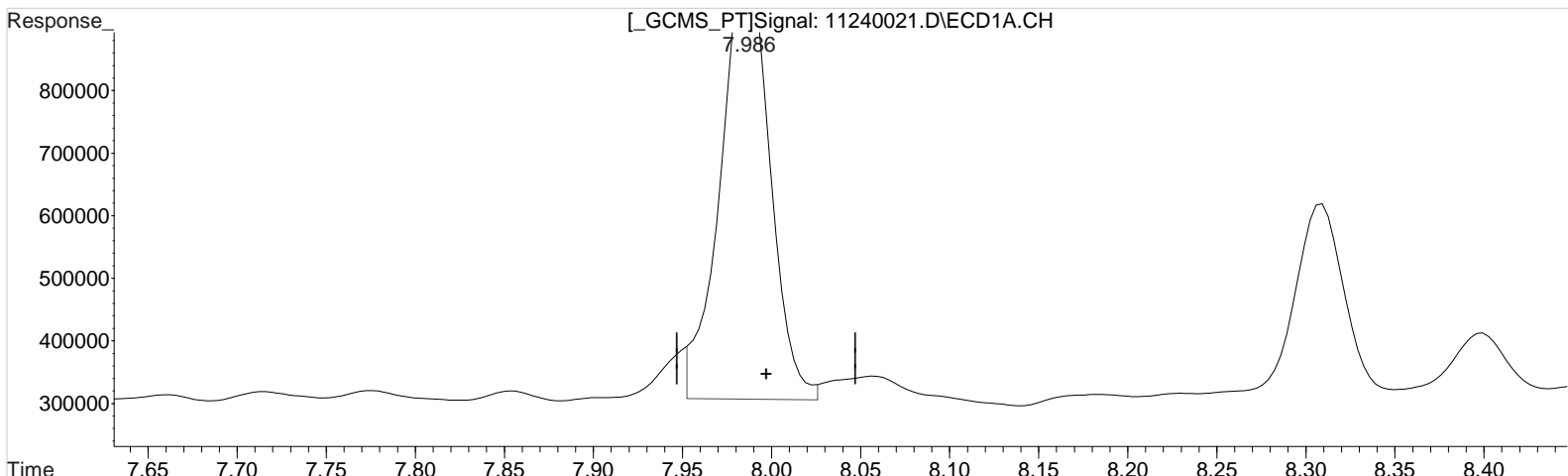
7.815min 89.769 ppb
 response 3797053

(+) = Expected Retention Time

Data File : J:\gc24\data\112420\11240021.D Vial: 25
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:30 pm Operator: UA
Sample : K2010308-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:45:01 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 73.616 ppb m
response 1339553

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.815min 88.255 ppb m
response 3732991

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240022.D\
Lab ID: K2010308-012
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 22:53:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240022.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 22:53:00	Vial: 22
Run Type: N/A	Dilution: 1
Lab ID: K2010308-012	Raw Units: ppb

Bottle ID: K2010308-012.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1199156	3670448	65.900	86.776	66	87	66	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	15096	1081032	0.161	5.325	0.48U	16J	4.4 U	Y
2,4-D	9.32	9.06	33470	49348	1.576	0.964	4.7U	2.9U	14 U	Y

Prep Amount: 30.099 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 55.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240022.D Vial: 26
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 10:53 pm Operator: UA
 Sample : K2010308-012 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:46:07 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.987	7.816	1199156	3670448	65.900m	86.776 #
Target Compounds						
1) m Dalapon	3.150f	2.870	6952	360611	0.287	7.464 #
3) m Dicamba	8.237	7.930	14218	125966	0.204	0.850 #
4) m MCPP	8.310	8.100	454684	356969	10293.200	1048.398 #
5) m MCPA	8.533	8.350	65033	375167	1110.678	103.996 #
6) m Dichloroprop	8.963	8.770	18665	122281	1.001	2.931 #
7) m 2,4-D	9.320	9.060	33470	49348	1.576	0.964 #
8) m 2,4,5-TP ...	10.253	10.093	15096	1081032	0.161	5.325 #
9) m 2,4,5-T	10.687	10.596f	85881	142707	1.041	0.746 #
10) m 2,4-DB	11.270	11.180	27906	299564	2.720	10.324 #
11) m Dinoseb	11.653	11.376f	97413	693539	1.575	5.071 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

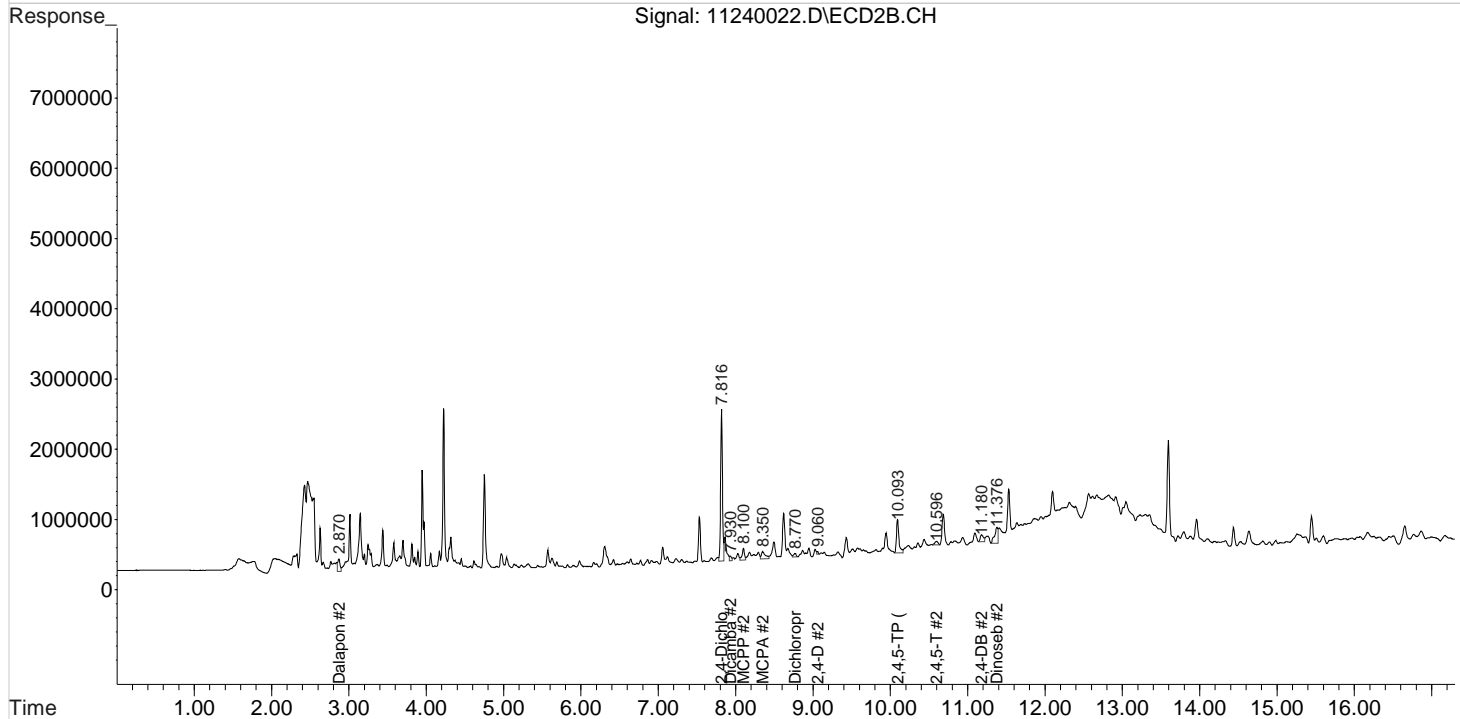
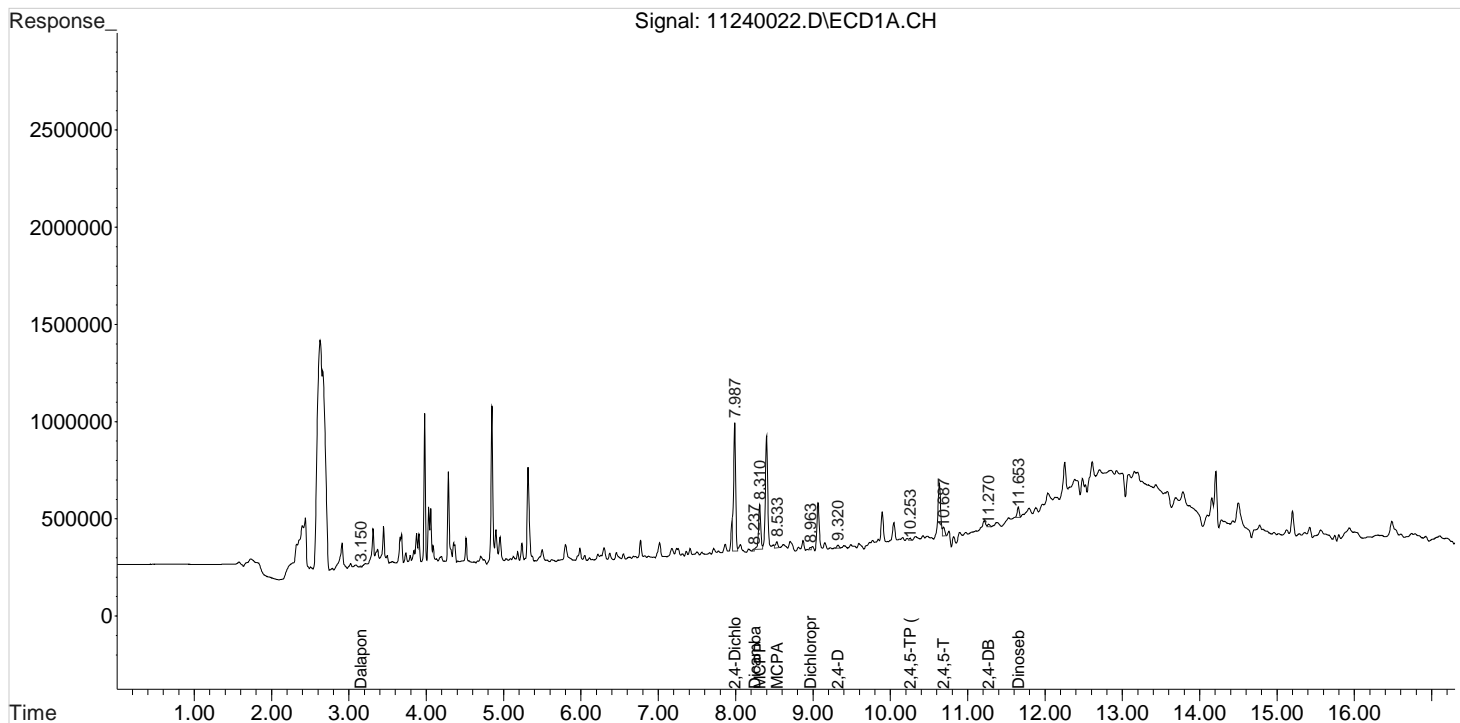
Data File : J:\gc24\data\112420\11240022.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:53 pm
Sample : K2010308-012
Misc :

Vial: 26
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:46:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

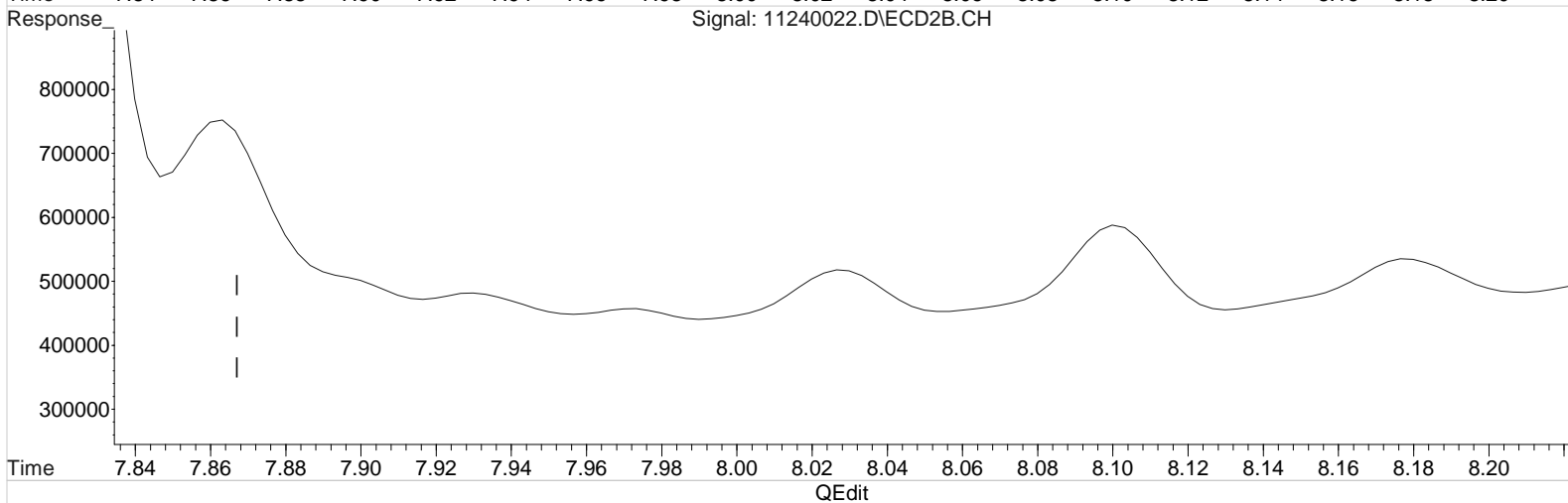
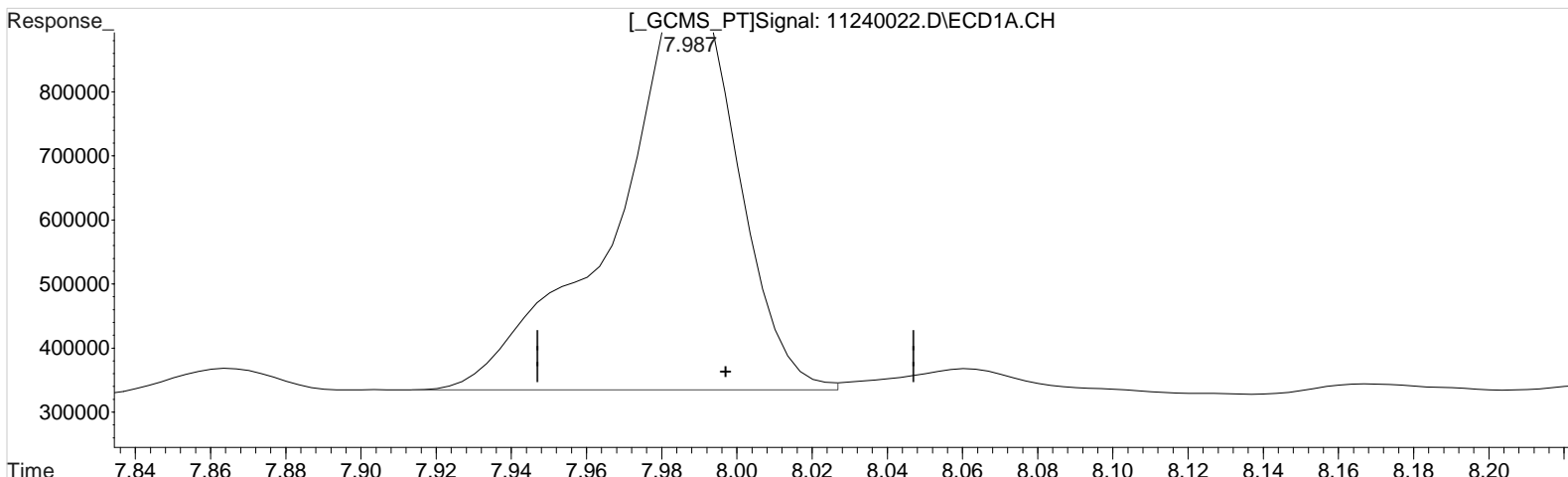
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240022.D Vial: 26
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:53 pm Operator: UA
Sample : K2010308-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:45:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)
7.987min 78.639 ppb
response 1430965

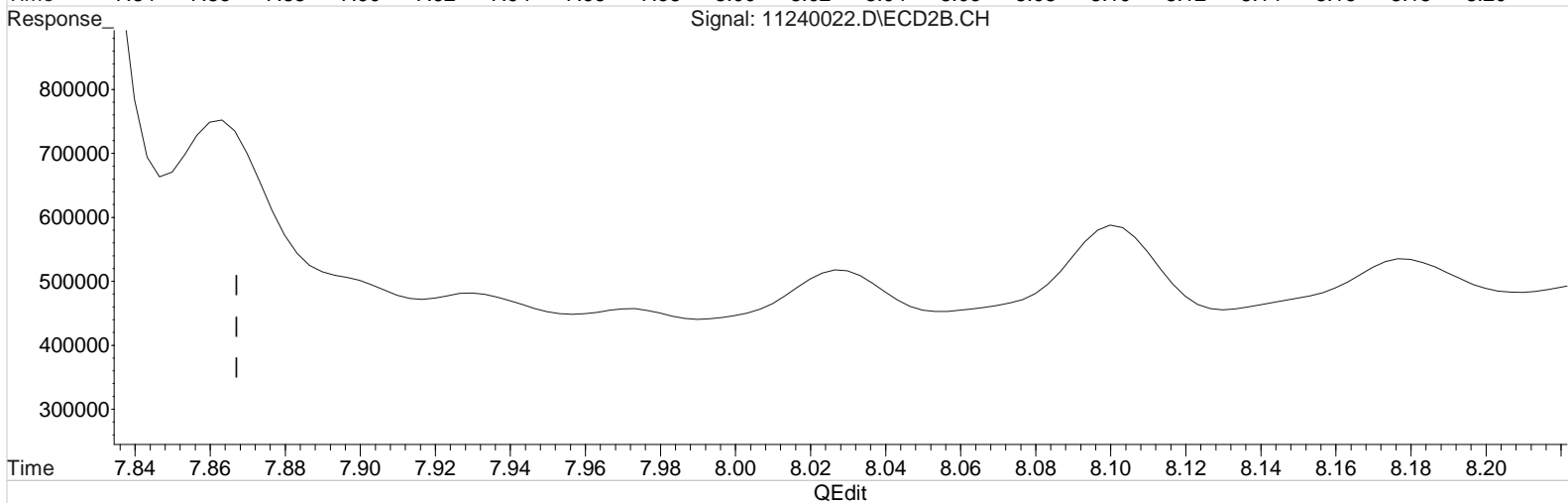
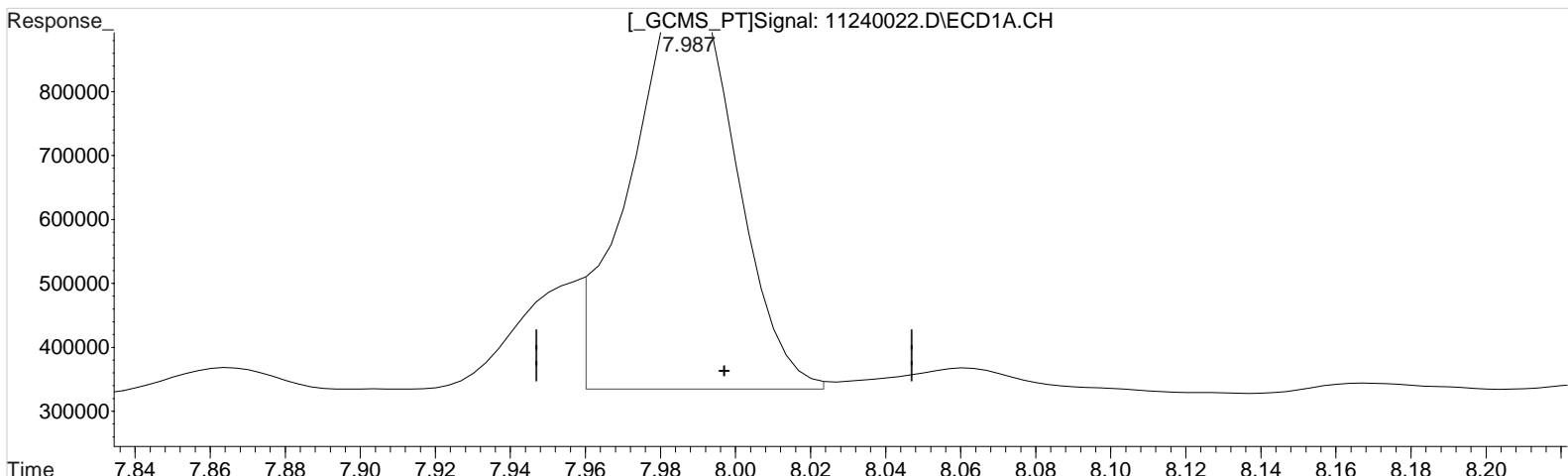
Manual Integration:
Before
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)
7.816min 86.776 ppb
response 3670448

Data File : J:\gc24\data\112420\11240022.D Vial: 26
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 10:53 pm Operator: UA
Sample : K2010308-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:45:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)
7.987min 65.900 ppb m
response 1199156

Manual Integration:
After
Baseline/Shoulder
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)
7.816min 86.776 ppb
response 3670448

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240029.D\
Lab ID: K2010308-013
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 01:33:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240029.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 01:33:00	Vial: 23
Run Type: N/A	Dilution: 20
Lab ID: K2010308-013	Raw Units: ppb

Bottle ID: K2010308-013.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	58896	245420	3.237	5.802	65	116	65	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.09 ^{-0.04}	2530	119685	0.027	0.590	1.6U	35U	86 U	Y
2,4-D	9.36 ^{+0.04}	9.03 ^{-0.03}	5316	27546	0.250	0.538	15U	32U	280 U	Y

Prep Amount: 30.253 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 55.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240029.D Vial: 37
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 1:33 am Operator: UA
 Sample : K2010308-013 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:50:29 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.986	7.819	58896	245420	3.237	5.802m#
Target Compounds						
1) m Dalapon	3.136	2.879	3490	35444	0.144	0.734 #
3) m Dicamba	8.249	7.932	8612	11683	0.123	0.079 #
4) m MCPP	8.313	8.102	41775	25426	1407.740	N.D. #
5) m MCPA	8.596	8.356	4601	46454	78.579	N.D. #
6) m Dichloroprop	8.983	8.672f	5790	36238	0.310	0.869 #
7) m 2,4-D	9.356	9.032	5316	27546	0.250	0.538 #
8) m 2,4,5-TP ...	10.266	10.089	2530	119685	0.027	0.590 #
9) m 2,4,5-T	10.693	10.486	7986	4914	0.097	0.026 #
10) m 2,4-DB	11.256	11.186	3422	46053	0.334	1.587 #
11) m Dinoseb	11.656	11.266	18020	68923	0.291	0.504 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

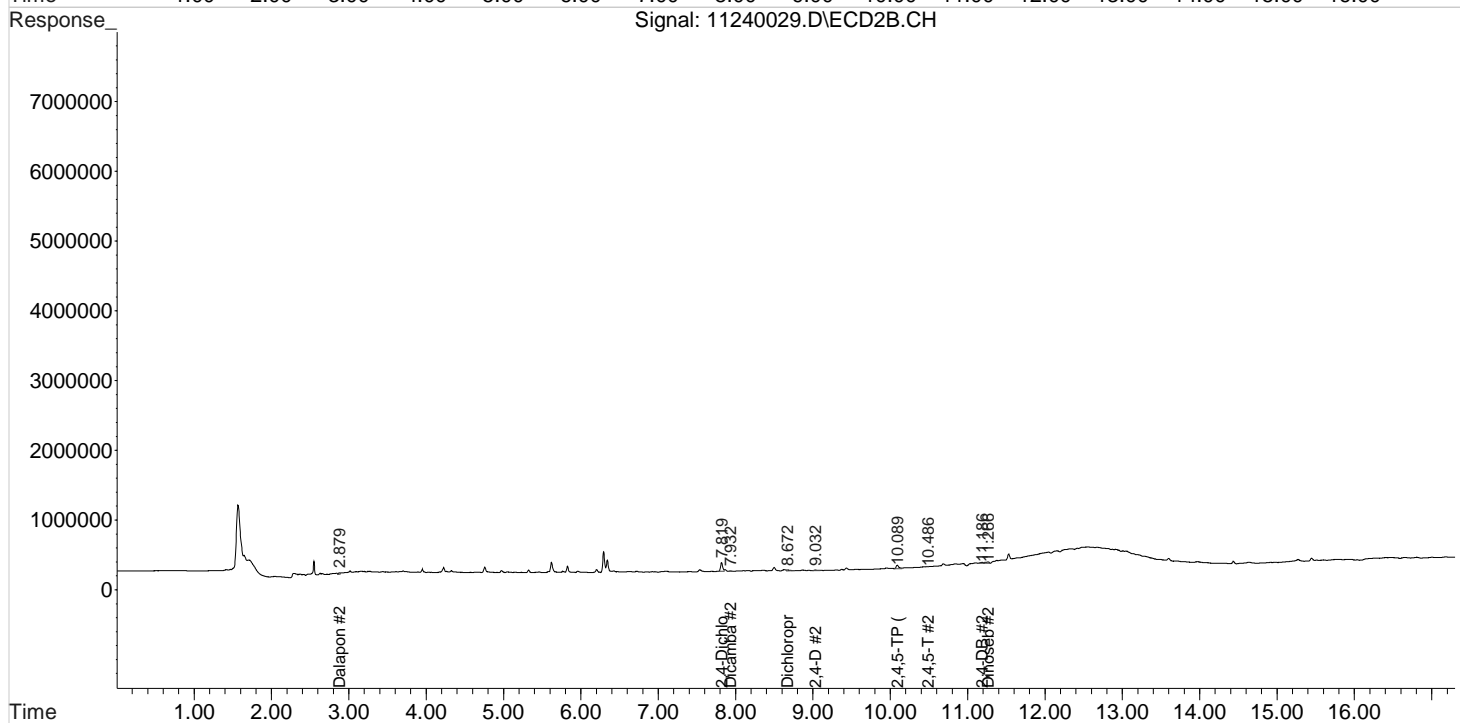
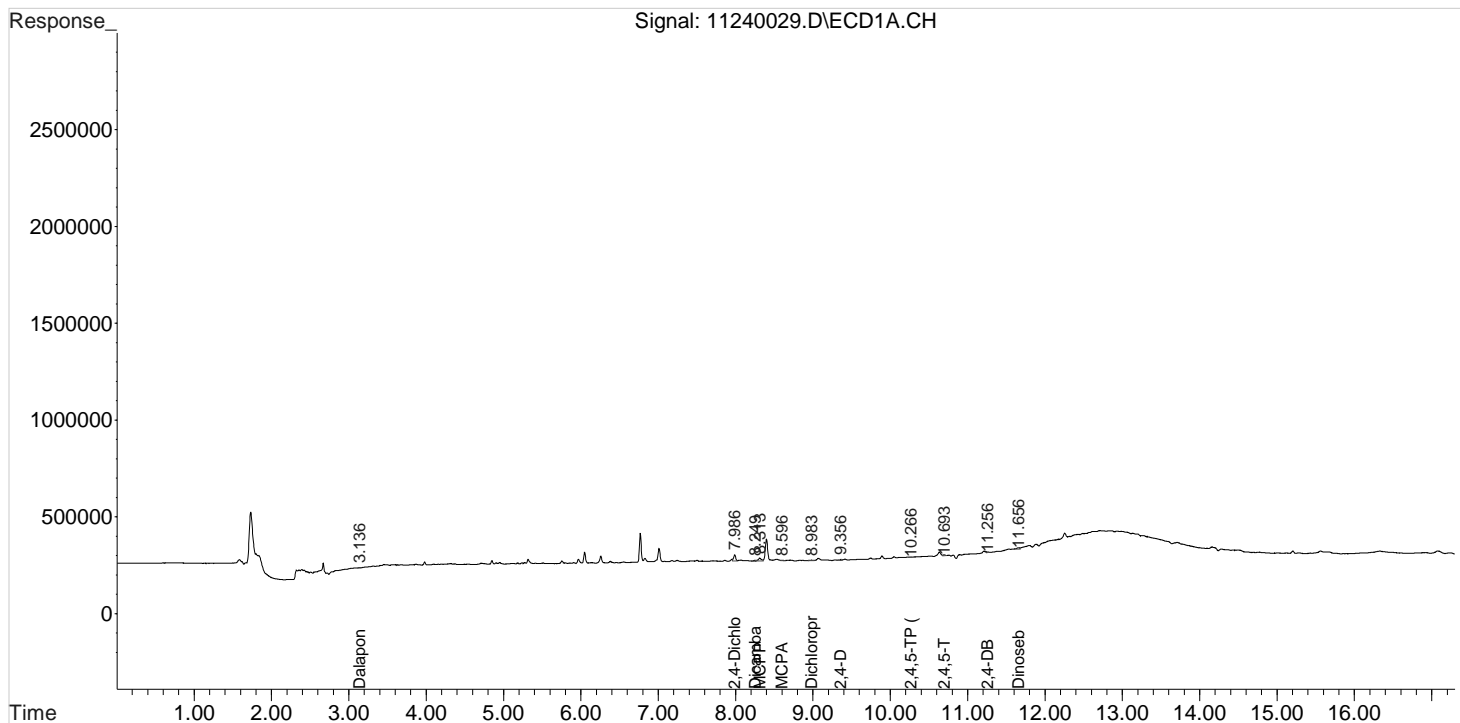
Data File : J:\gc24\data\112420\11240029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 1:33 am
Sample : K2010308-013 20X
Misc :

Vial: 37
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:50:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

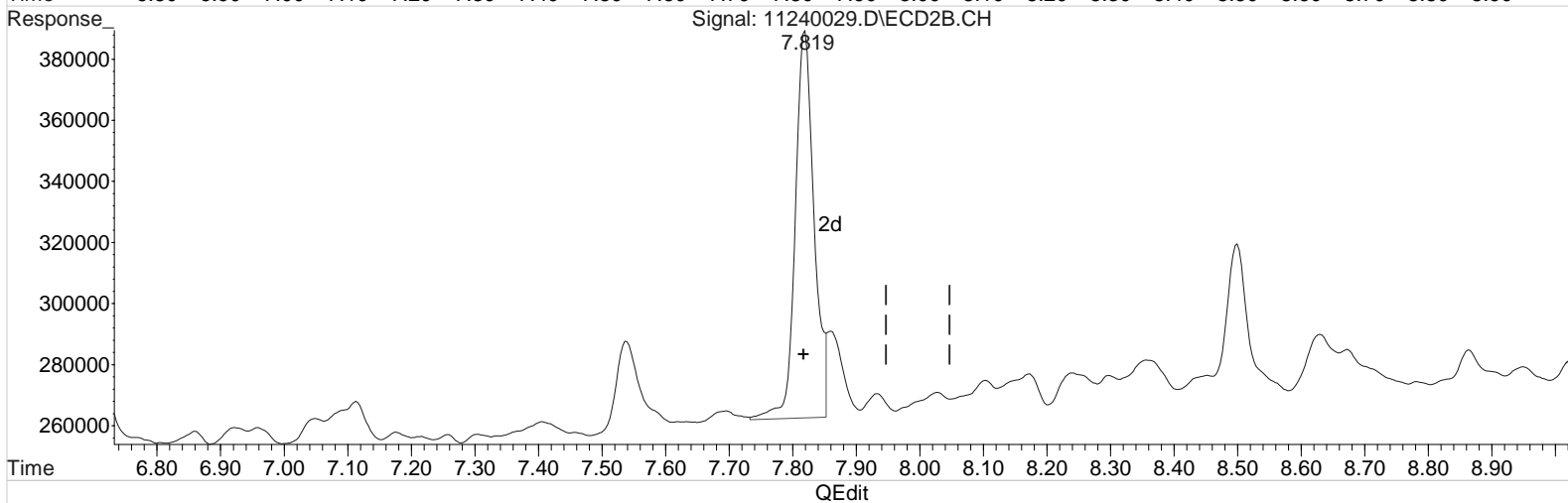
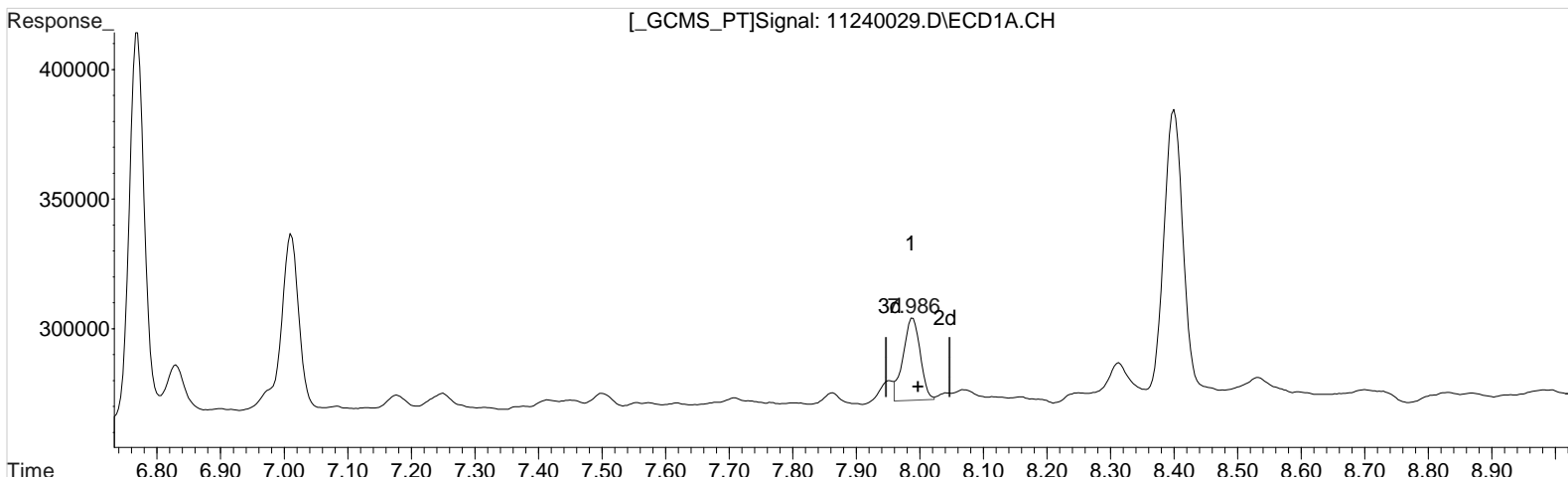


Data File : J:\gc24\data\112420\11240029.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 1:33 am
Sample : K2010308-013 20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:48:53 2020
Quant Results File: 102120_8151.RES

Vial: 37
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 3.237 ppb
response 58896

Manual Integration:

Before

11/25/20

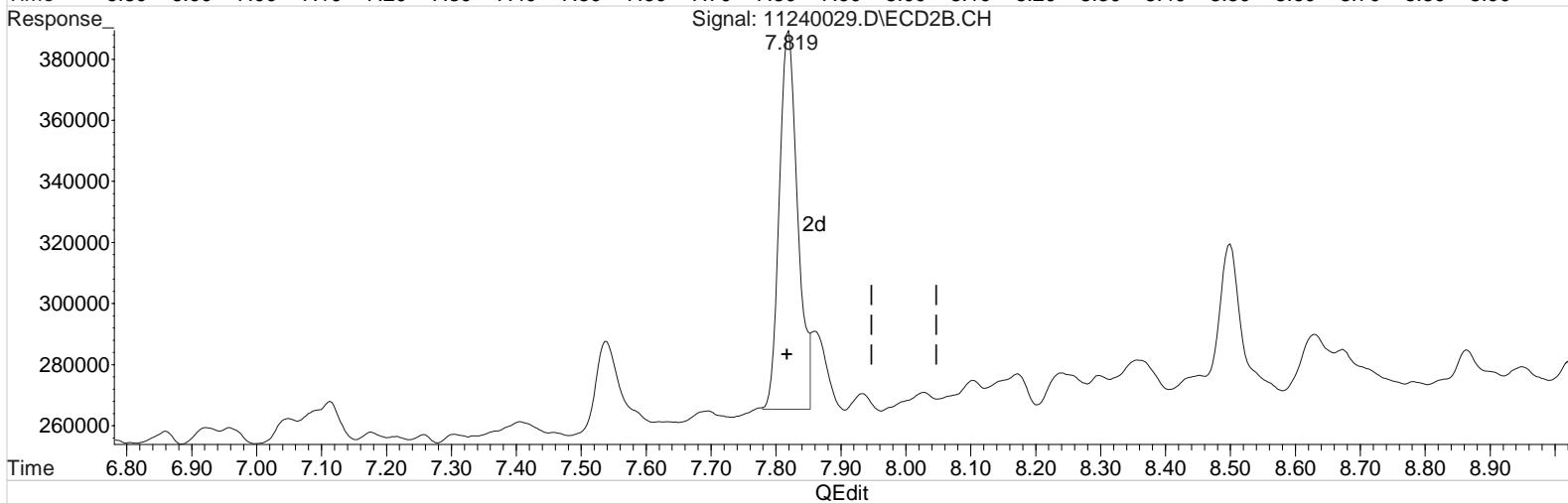
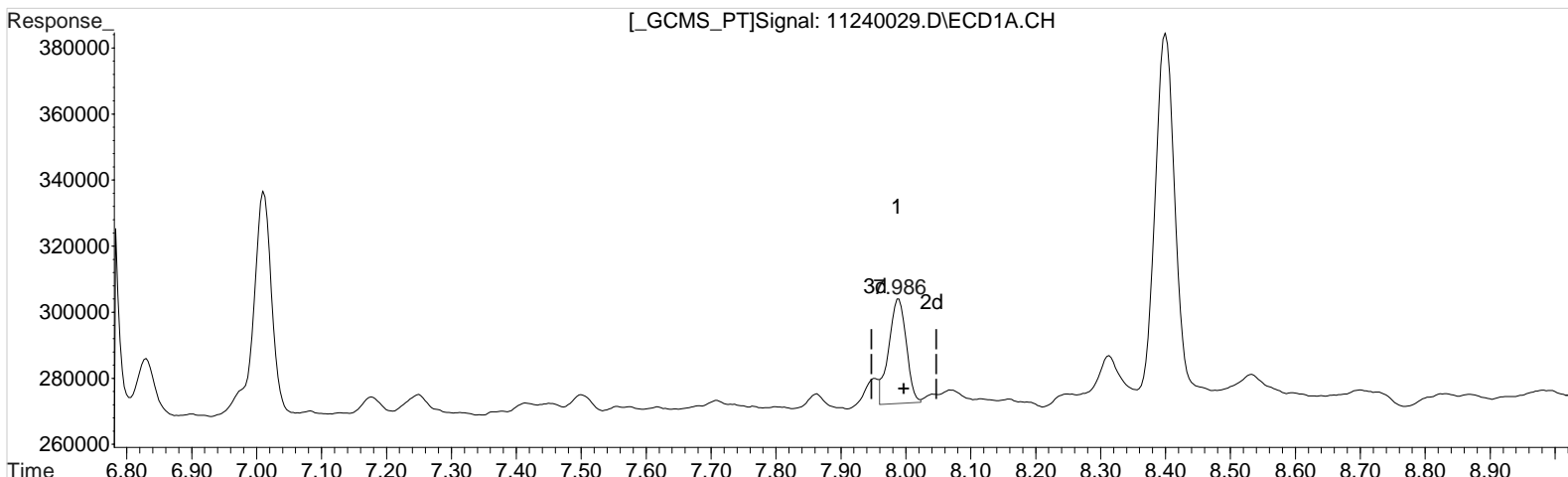
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.819min 6.252 ppb
response 264451

Data File : J:\gc24\data\112420\11240029.D Vial: 37
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 1:33 am Operator: UA
 Sample : K2010308-013 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:48:53 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.986min 3.237 ppb
 response 58896

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.819min 5.802 ppb m
 response 245420

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240030.D\
Lab ID: K2010308-014
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 01:56:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240030.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 01:56:00	Vial: 24
Run Type: N/A	Dilution: 20
Lab ID: K2010308-014	Raw Units: ppb

Bottle ID: K2010308-014.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	56963	265273	3.130	6.272	63	125	63	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.10 ^{-0.03}	4536	114023	0.048	0.562	2.7U	32U	83 U	Y
2,4-D	9.29 ^{-0.03}	9.03 ^{-0.03}	10769	29312	0.507	0.573	29U	33U	270 U	Y

Prep Amount: 30.055 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 58.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240030.D Vial: 38
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 1:56 am Operator: UA
 Sample : K2010308-014 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:50:47 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.996	7.826	56963	265273	3.130	6.272 #
Target Compounds						
1) m Dalapon	3.133	2.876	1510	27512	0.062	0.569 #
3) m Dicamba	8.256	7.946	17634	19486	0.253	0.131 #
4) m MCPP	8.319	8.109	21063	40659	962.035	N.D. #
5) m MCPA	8.546	8.369	15901	65024	271.568	N.D. #
6) m Dichloroprop	8.979	8.682f	14575	44135	0.782	1.058 #
7) m 2,4-D	9.286	9.032	10769	29312	0.507	0.573
8) m 2,4,5-TP ...	10.259	10.096	4536	114023	0.048	0.562 #
9) m 2,4,5-T	10.699	10.586f	12552	3121	0.152	0.016 #
10) m 2,4-DB	11.216f	11.199	27960	63659	2.725	2.194
11) m Dinoseb	11.659	11.269	30756	130619	0.497	0.955 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

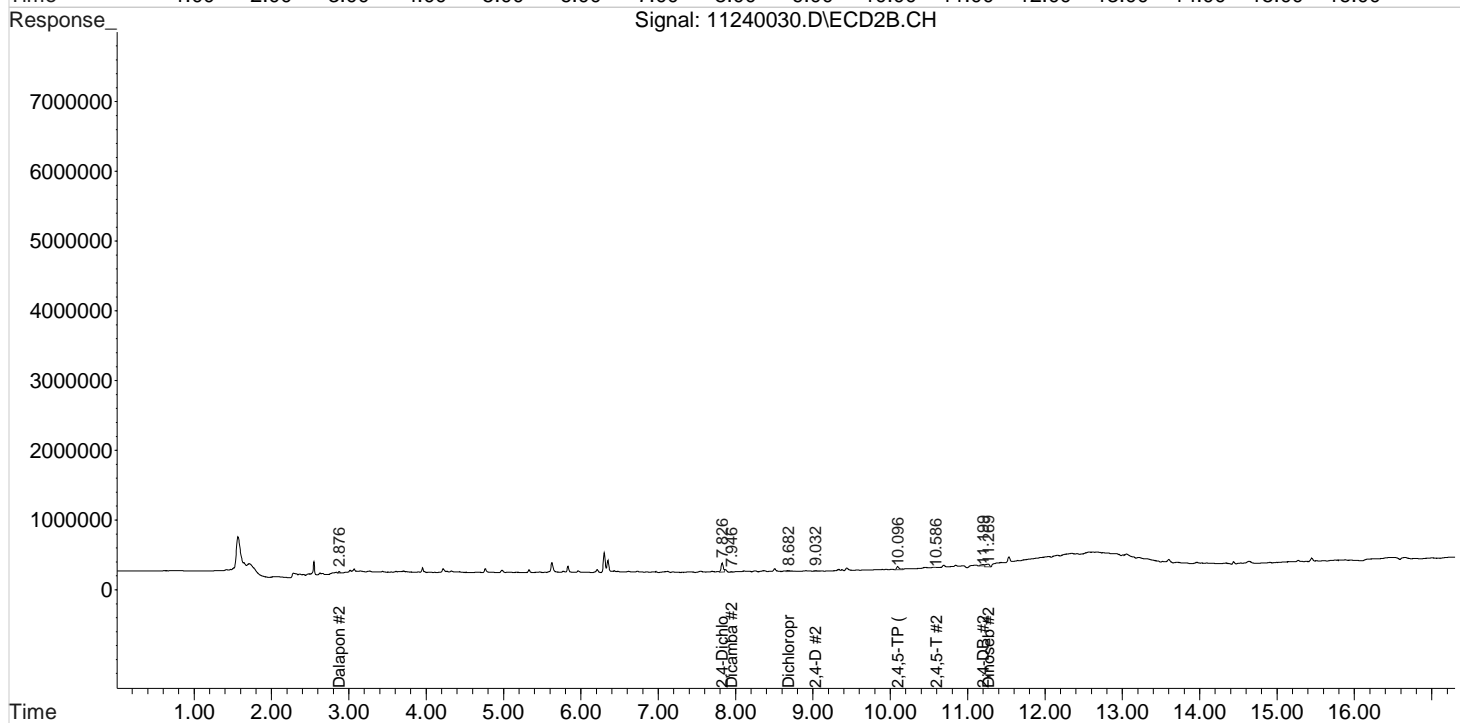
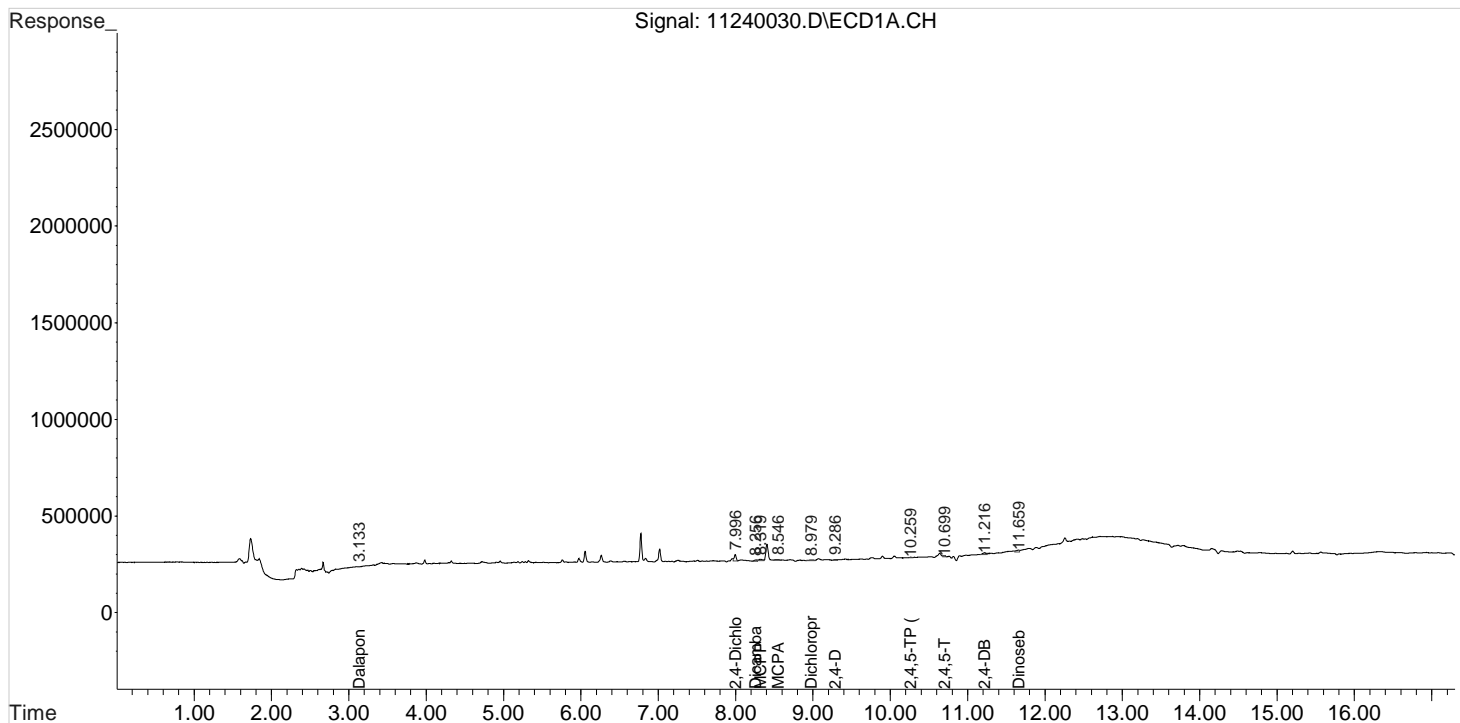
Data File : J:\gc24\data\112420\11240030.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 1:56 am
Sample : K2010308-014 20X
Misc :

Vial: 38
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:50:47 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240031.D\
Lab ID: K2010308-015
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 02:19:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240031.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 02:19:00	Vial: 25
Run Type: N/A	Dilution: 20
Lab ID: K2010308-015	Raw Units: ppb

Bottle ID: K2010308-015.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.83 ^{+0.01}	49080	203247	2.697	4.805	54	96	54	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.10 ^{-0.03}	3895	122063	0.042	0.601	2.5U	35U	85 U	Y
2,4-D	9.34 ^{+0.02}	9.04 ^{-0.02}	1417	37376	0.067	0.730	3.9U	43U	280 U	Y

Prep Amount: 30.317 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.20

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240031.D Vial: 39
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 2:19 am Operator: UA
 Sample : K2010308-015 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:51:22 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.994	7.827	49080	203247	2.697m	4.805m#
Target Compounds						
1) m Dalapon	3.131	2.877	1432	15401	0.059	0.319 #
3) m Dicamba	8.184	7.947	2048	18389	0.029	0.124 #
4) m MCPP	8.321	8.114	23316	38137	1010.518	N.D. #
5) m MCPA	8.541	8.370	39608	102498	676.452	N.D. #
6) m Dichloroprop	9.004	8.677f	6260	25343	0.336	0.608 #
7) m 2,4-D	9.344	9.037	1417	37376	0.067	0.730 #
8) m 2,4,5-TP ...	10.267	10.097	3895	122063	0.042	0.601 #
9) m 2,4,5-T	10.697	10.487	6697	3399	0.081	0.018 #
10) m 2,4-DB	11.214f	11.207	150444	83239	14.664	2.869 #
11) m Dinoseb	0.000	11.270	0	105923	N.D.	0.775 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

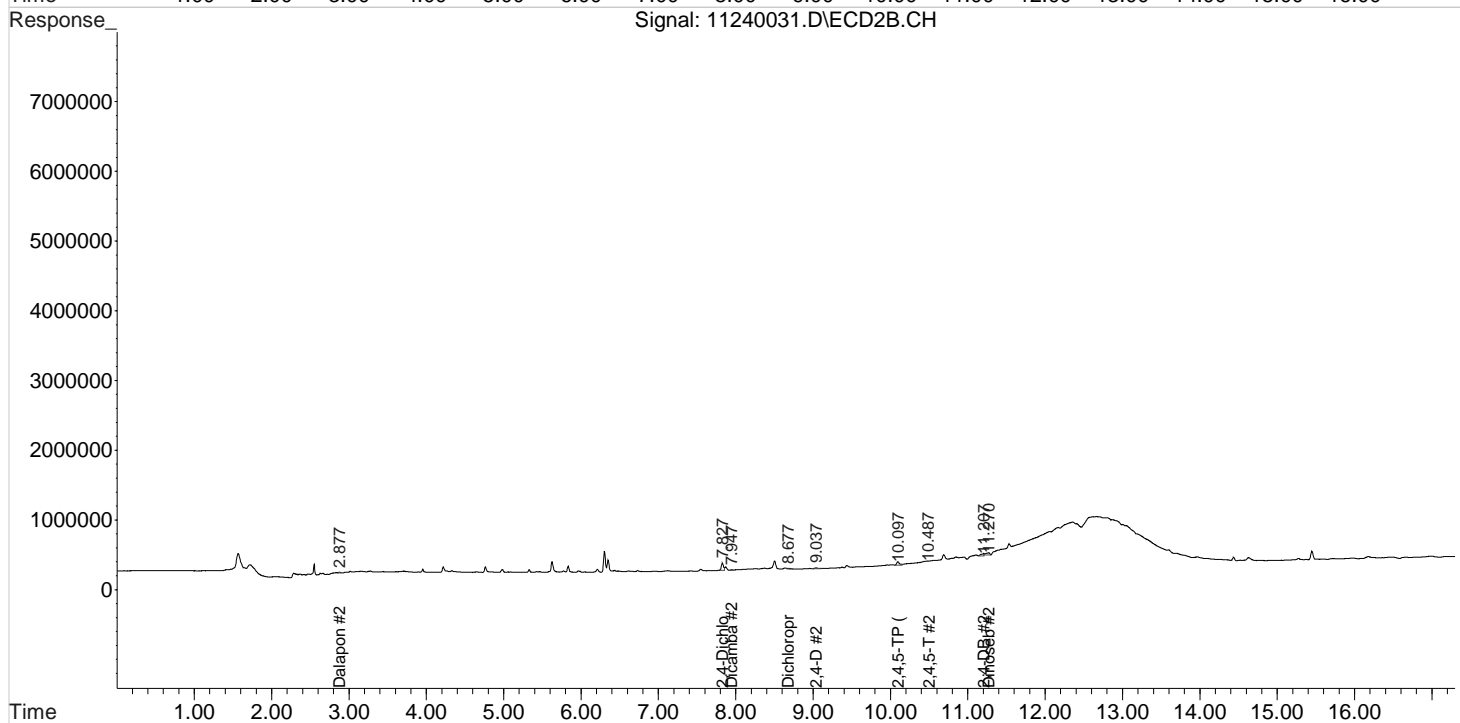
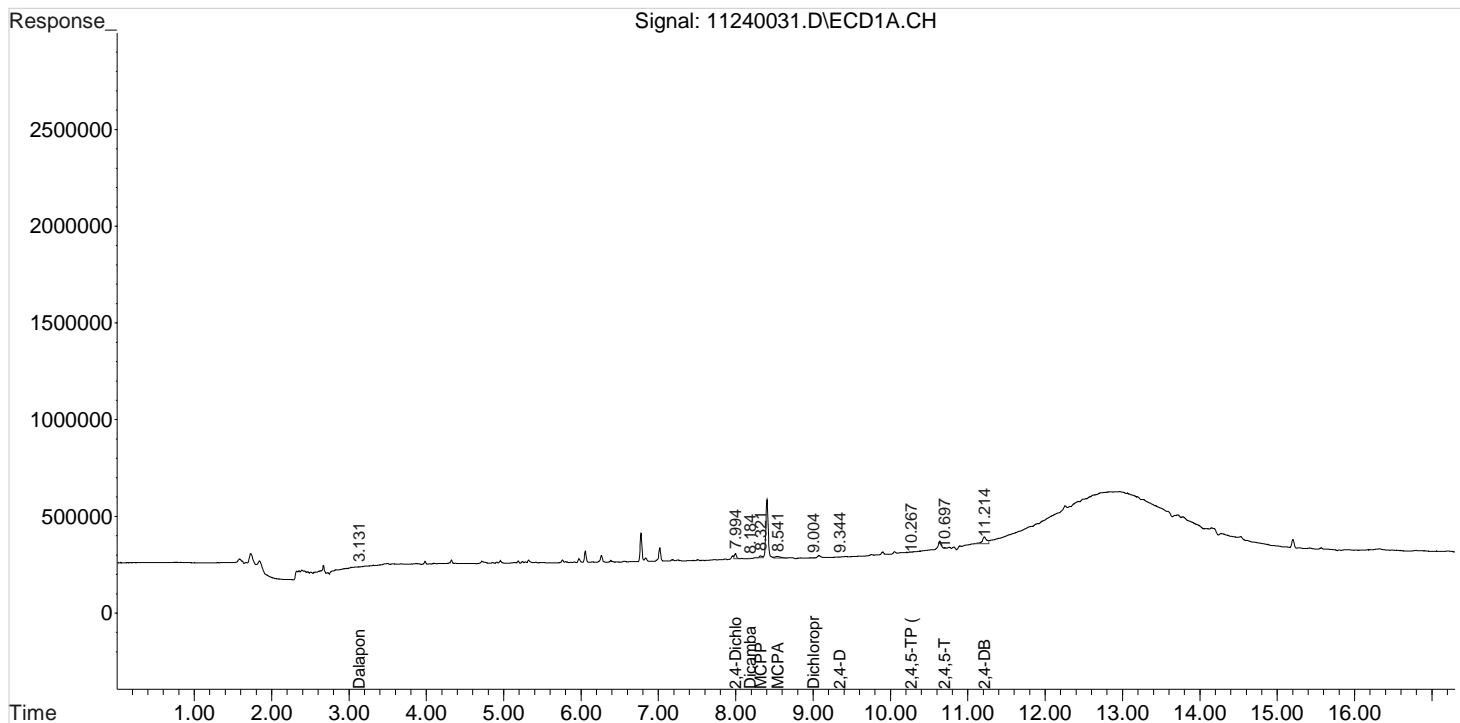
Data File : J:\gc24\data\112420\11240031.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 2:19 am
Sample : K2010308-015 20X
Misc :

Vial: 39
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:51:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

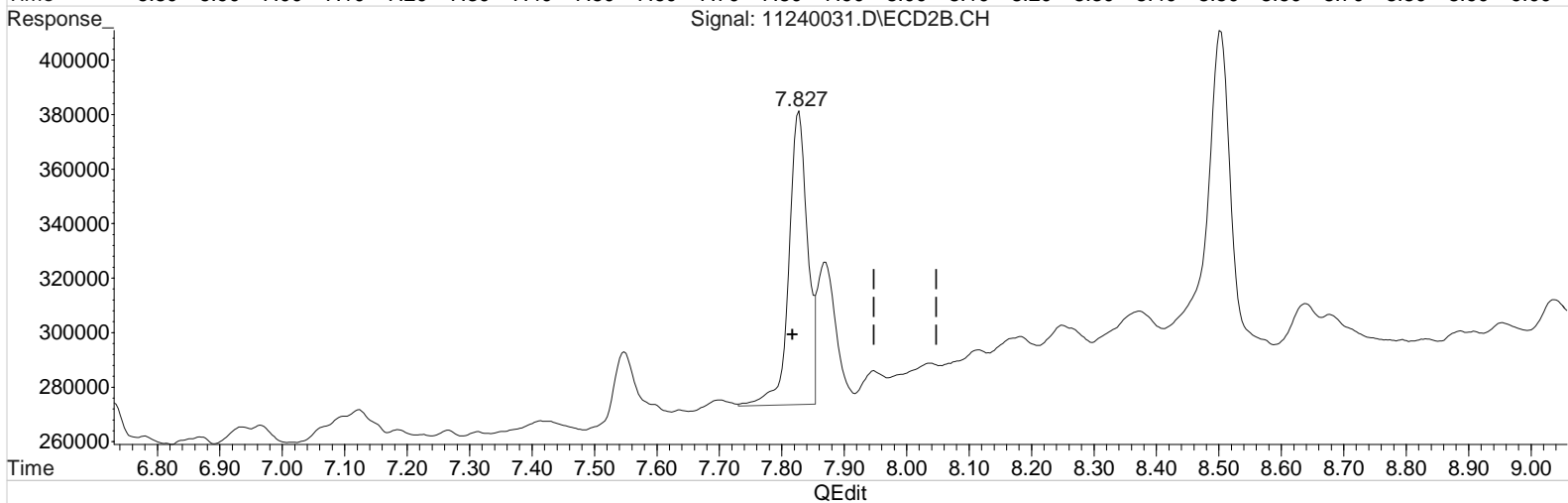
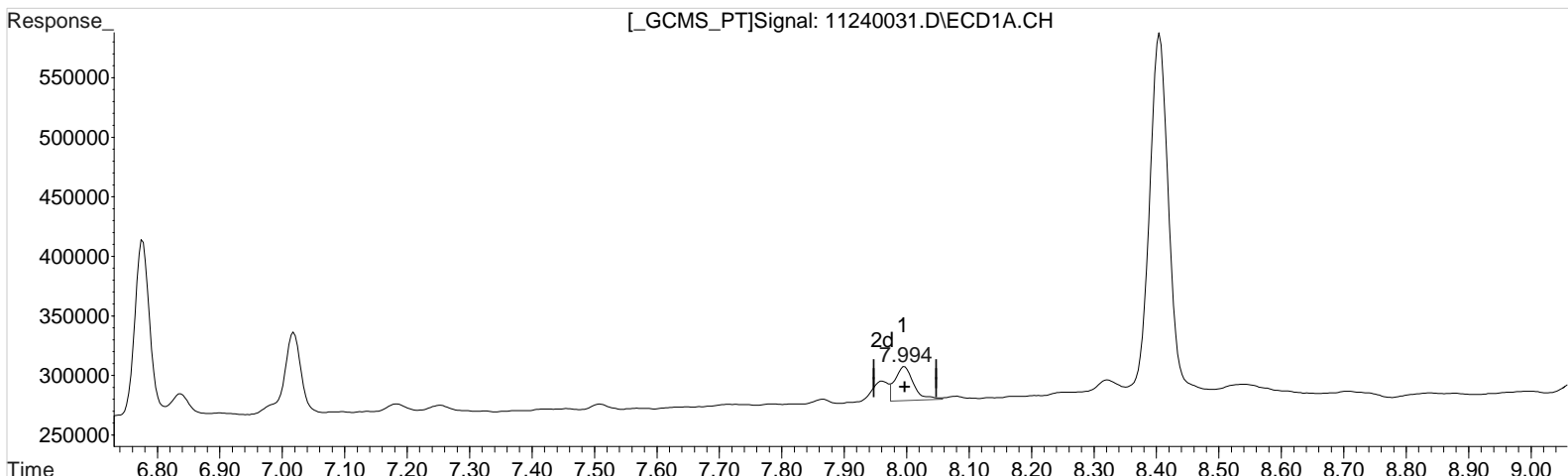
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240031.D Vial: 39
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 2:19 am Operator: UA
Sample : K2010308-015 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:51:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.994min 3.150 ppb
response 57314

Manual Integration:

Before

11/25/20

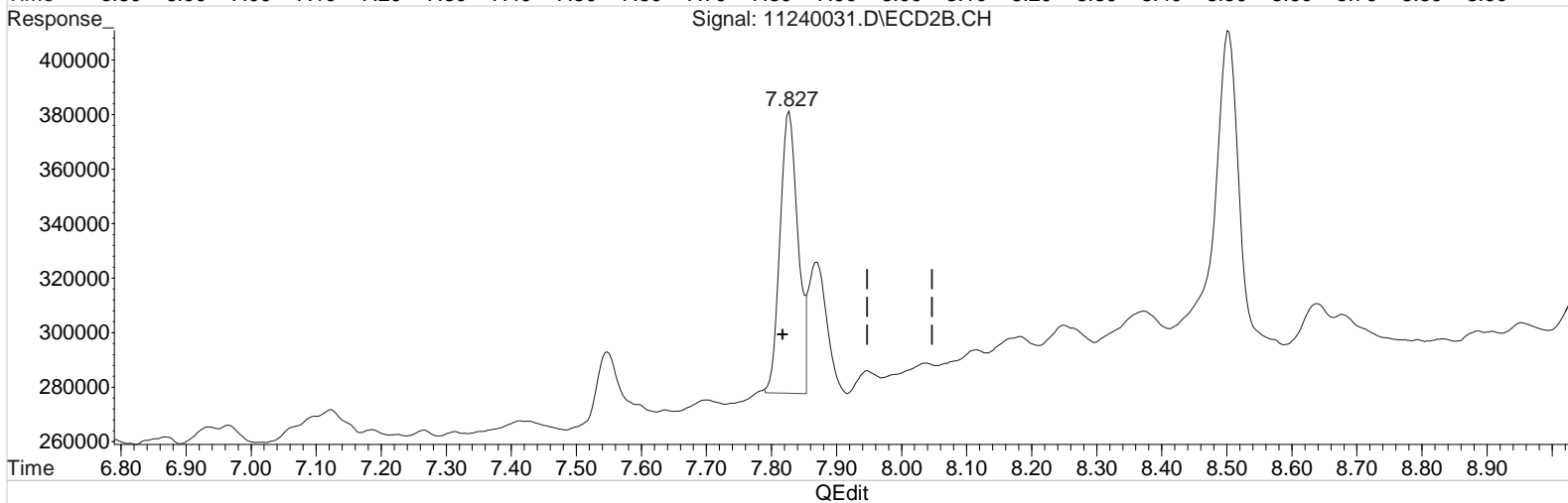
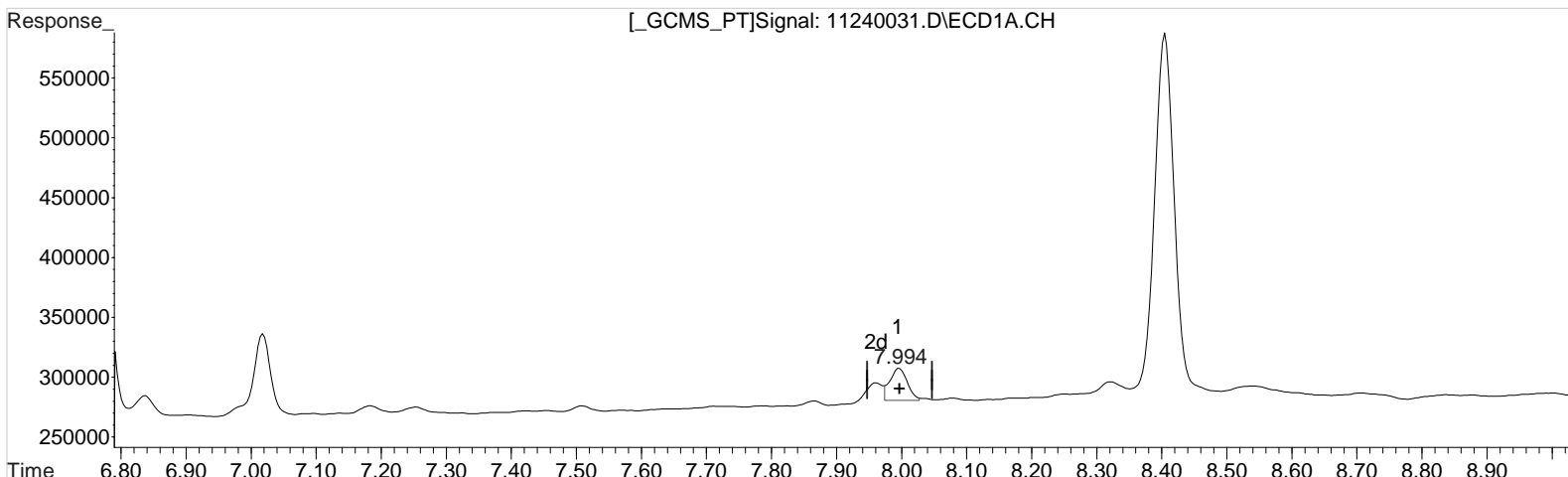
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.827min 5.423 ppb
response 229362

Data File : J:\gc24\data\112420\11240031.D Vial: 39
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 2:19 am Operator: UA
 Sample : K2010308-015 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:51:05 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.994min 2.697 ppb m
 response 49080

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.827min 4.805 ppb m
 response 203247

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240032.D\
Lab ID: K2010308-016
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 02:41:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240032.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 02:41:00	Vial: 26
Run Type: N/A	Dilution: 20
Lab ID: K2010308-016	Raw Units: ppb

Bottle ID: K2010308-016.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	62208	243814	3.419	5.764	68	115	68	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.10 ^{-0.03}	2733	123841	0.029	0.610	1.6U	34U	81 U	Y
2,4-D	9.28 ^{-0.04}	9.04 ^{-0.02}	8084	37525	0.381	0.733	21U	41U	260 U	Y

Prep Amount: 30.395 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 58.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240032.D Vial: 40
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 2:41 am Operator: UA
 Sample : K2010308-016 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:51:59 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.827	62208	243814	3.419	5.764m#
Target Compounds						
1) m Dalapon	3.134	2.877	2142	16566	0.088	0.343 #
3) m Dicamba	8.207	7.947	4868	18126	0.070	0.122 #
4) m MCPP	8.324	8.110	39055	25230	1349.208	N.D. #
5) m MCPA	8.540	8.370	38318	71894	654.421	N.D. #
6) m Dichloroprop	9.000	8.680f	6510	25163	0.349	0.603 #
7) m 2,4-D	9.284	9.037	8084	37525	0.381	0.733 #
8) m 2,4,5-TP ...	10.270	10.097	2733	123841	0.029	0.610 #
9) m 2,4,5-T	10.764f	10.567	13436	6318	0.163	0.033 #
10) m 2,4-DB	11.310	11.217f	15085	88683	1.470	3.056 #
11) m Dinoseb	11.664	11.270	261632	105673	4.229	0.773 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

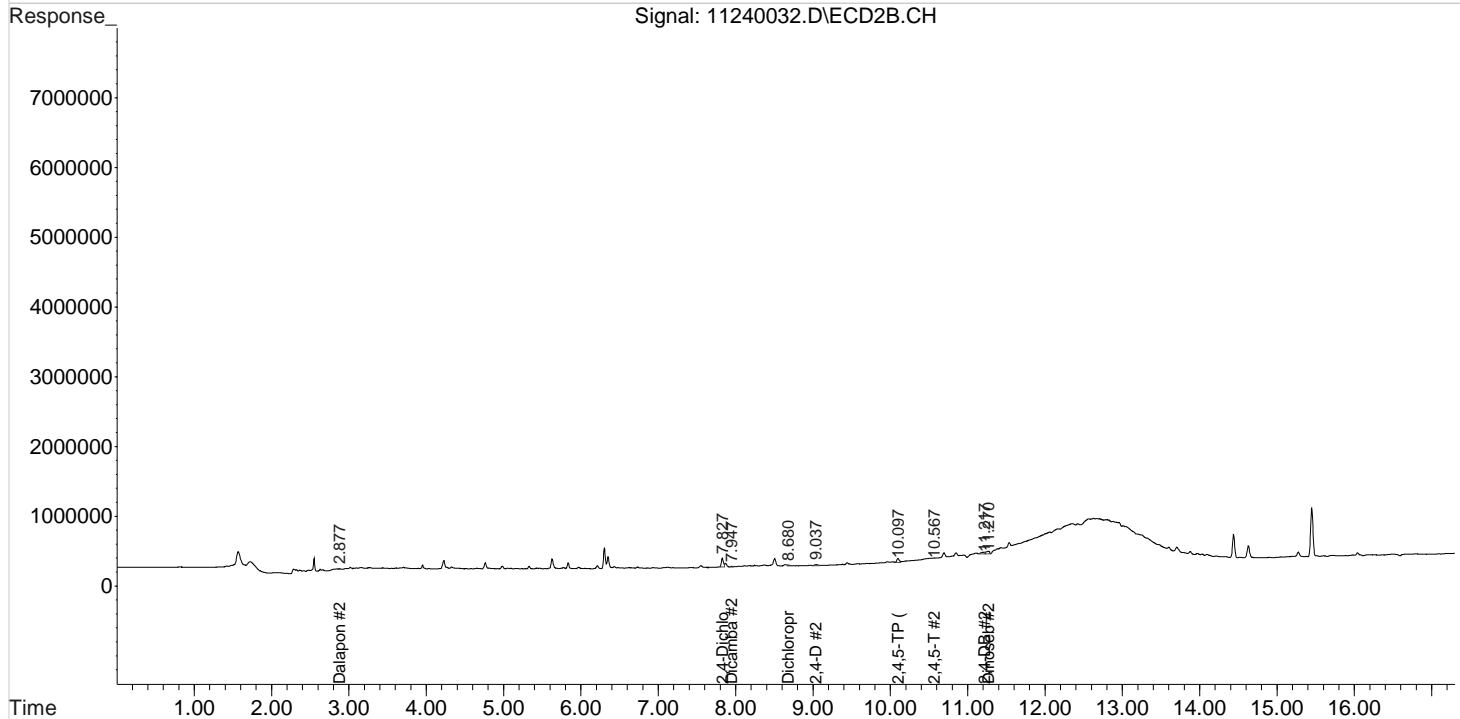
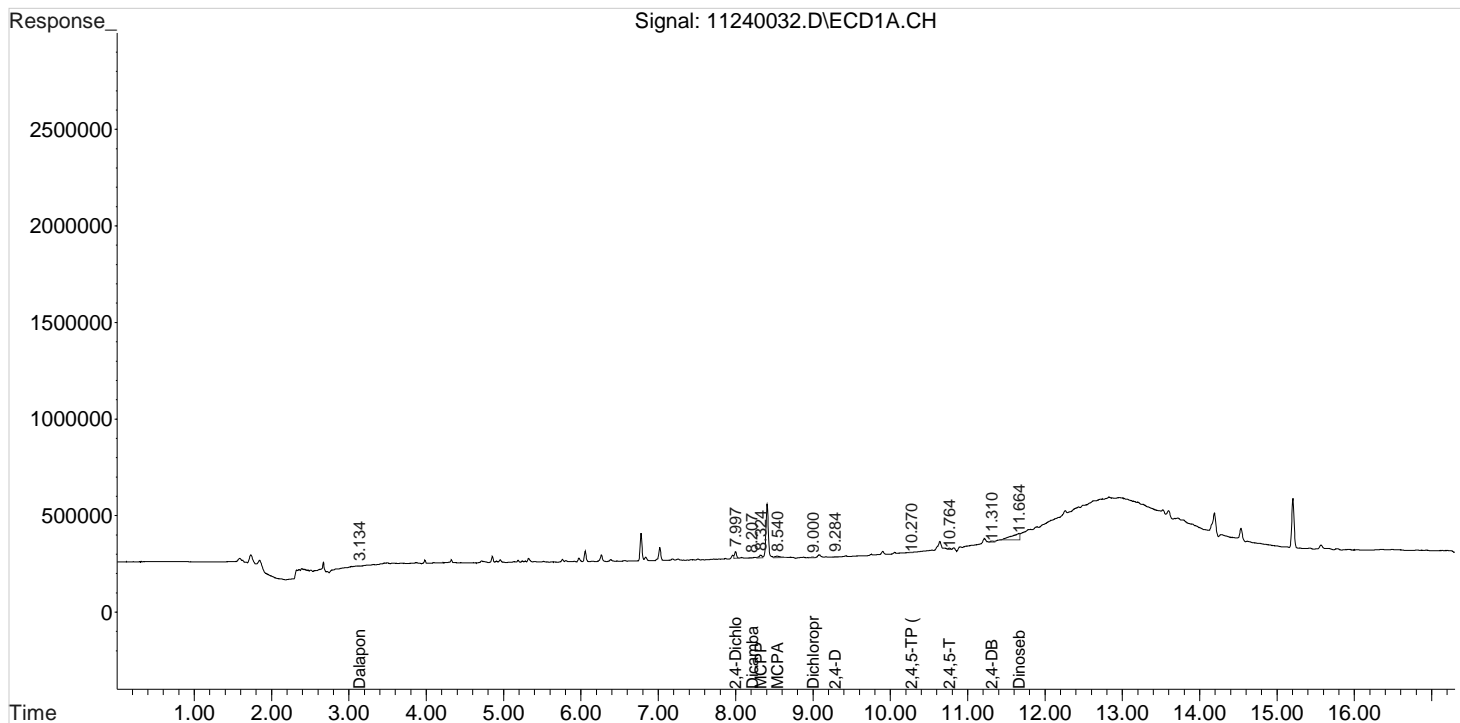
Data File : J:\gc24\data\112420\11240032.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 2:41 am
Sample : K2010308-016 20X
Misc :

Vial: 40
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:51:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

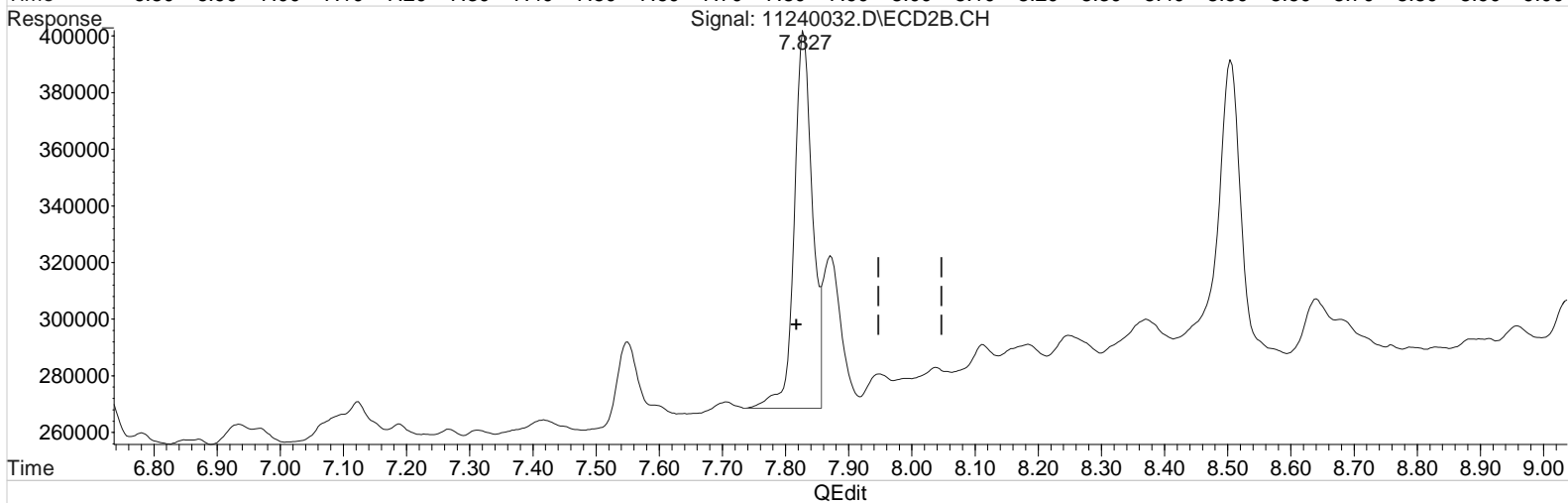
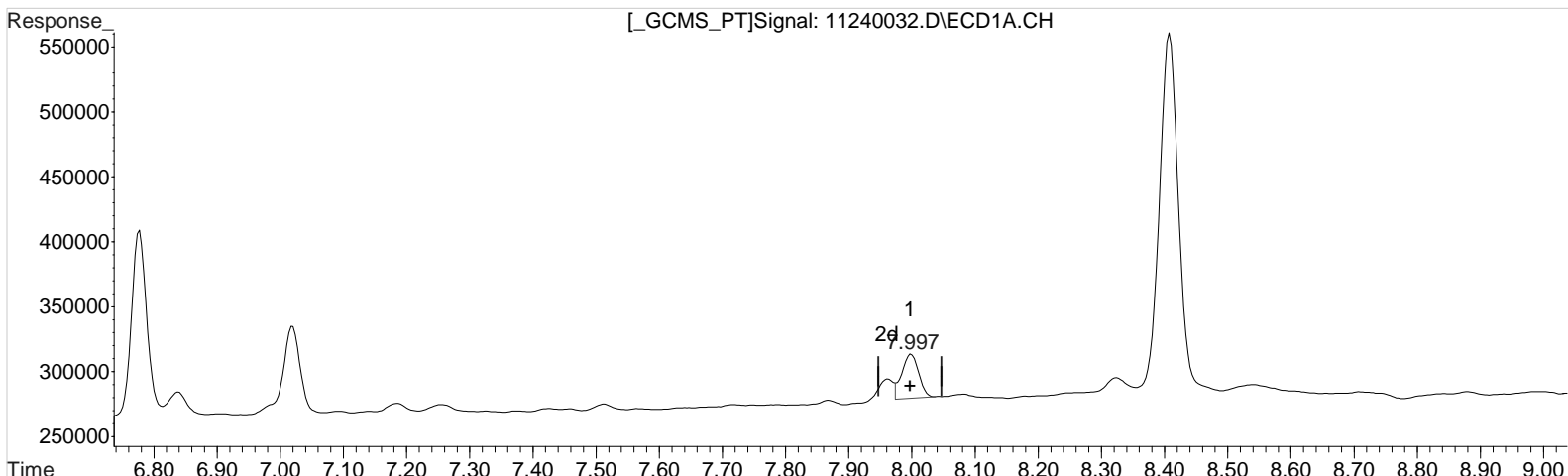
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240032.D Vial: 40
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 2:41 am Operator: UA
 Sample : K2010308-016 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:51:42 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.997min 3.419 ppb
 response 62208

Manual Integration:

Before

11/25/20

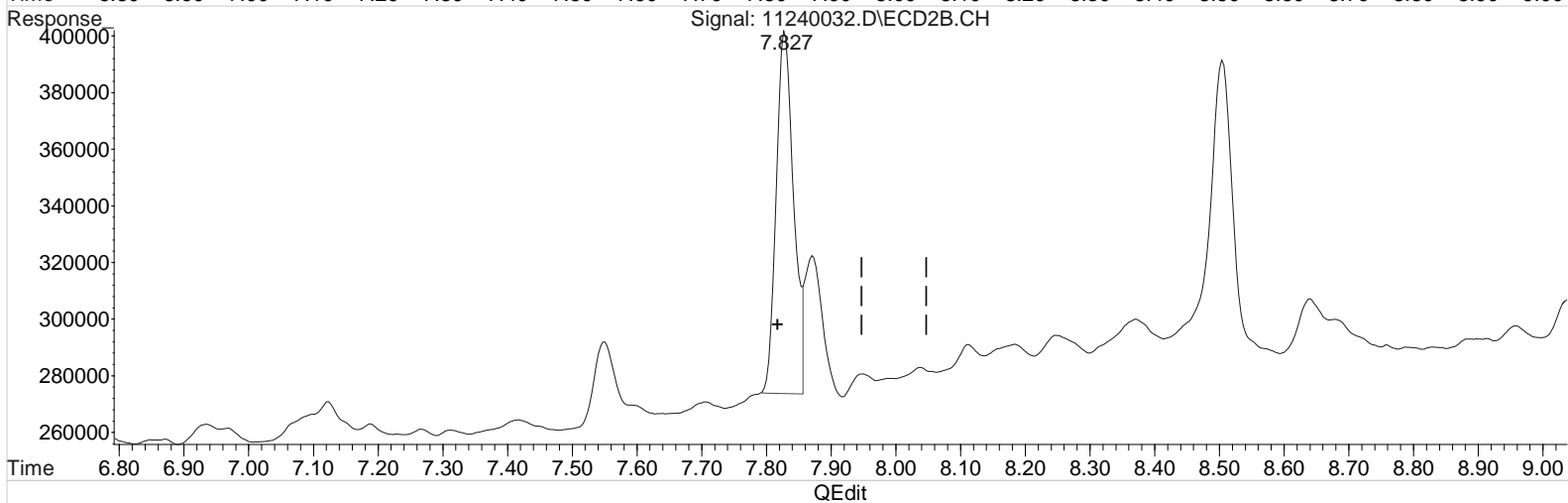
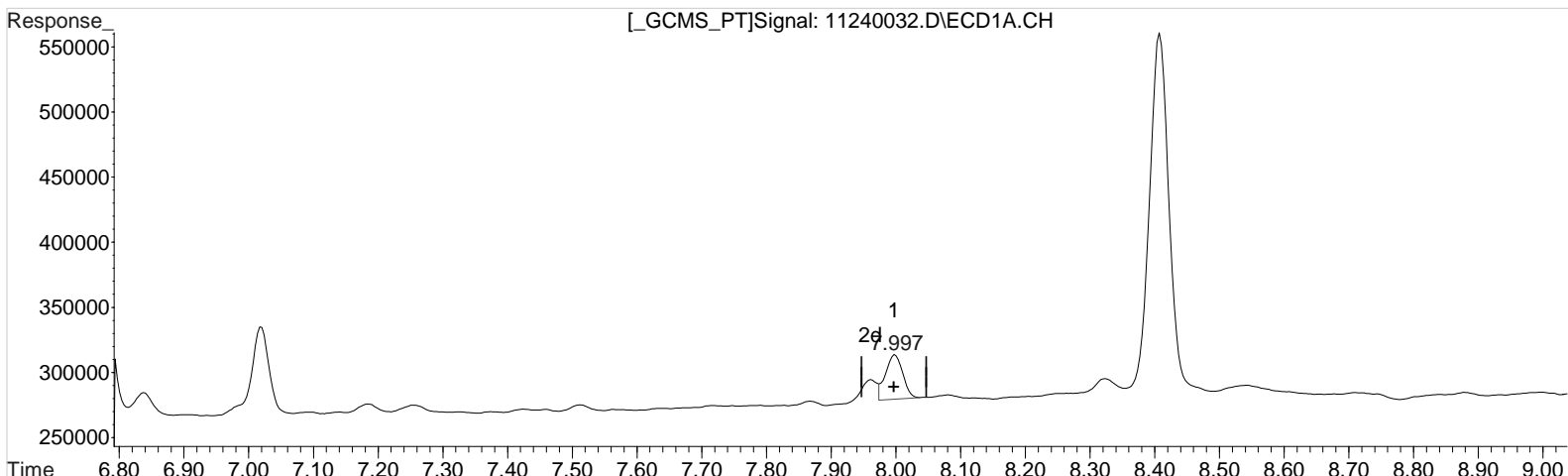
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.827min 6.450 ppb
 response 272815

Data File : J:\gc24\data\112420\11240032.D Vial: 40
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 2:41 am Operator: UA
Sample : K2010308-016 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:51:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.997min 3.419 ppb
response 62208

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.827min 5.764 ppb m
response 243814

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240033.D\
Lab ID: K2010308-017
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 03:04:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240033.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 03:04:00	Vial: 27
Run Type: N/A	Dilution: 20
Lab ID: K2010308-017	Raw Units: ppb

Bottle ID: K2010308-017.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	51395	222721	2.824	5.266	56	105	56	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	0.00	10.10 ^{-0.03}	0	67726	0.000	0.334	0U	16U	68 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	4747	30187	0.223	0.590	10U	28U	220 U	Y

Prep Amount: 30.355 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 70.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240033.D Vial: 41
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 3:04 am Operator: UA
 Sample : K2010308-017 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:52:50 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.831	51395	222721	2.824m	5.266 #
Target Compounds						
1) m Dalapon	3.132	2.881	4176	18195	0.172	0.377 #
3) m Dicamba	8.252	7.948	1324	5212	0.019	0.035 #
4) m MCPP	8.328	8.115	7981	15780	680.521	N.D. #
5) m MCPA	0.000	8.375	0	10230	N.D.	N.D.
6) m Dichloroprop	8.995	0.000	5545	0	0.297	N.D. #
7) m 2,4-D	9.292	9.048	4747	30187	0.223	0.590 #
8) m 2,4,5-TP ...	0.000	10.098	0	67726	N.D.	0.334 #
9) m 2,4,5-T	10.705	10.565	2423	2503	0.029	0.013 #
10) m 2,4-DB	11.262	11.181	3114	4046	0.304	0.139 #
11) m Dinoseb	11.662	11.271	4574	15626	0.074	0.114 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

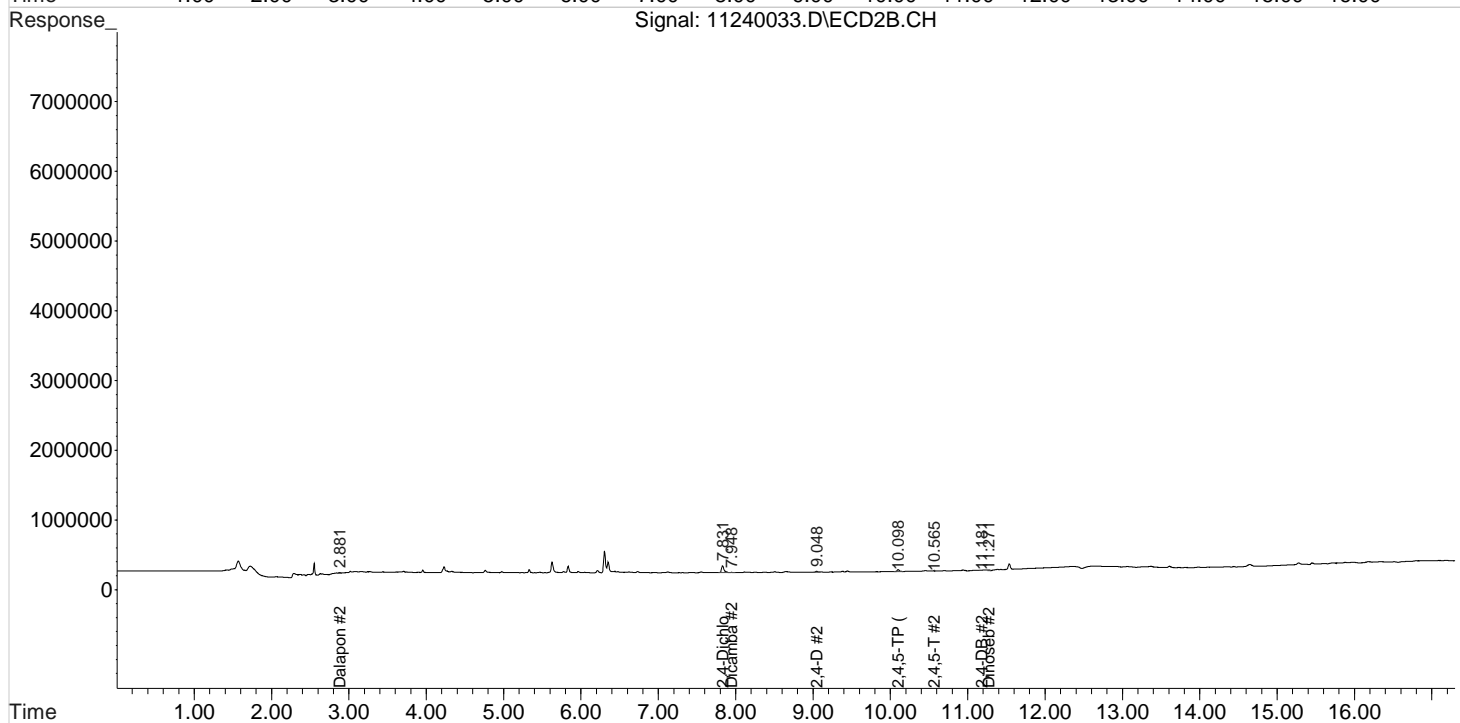
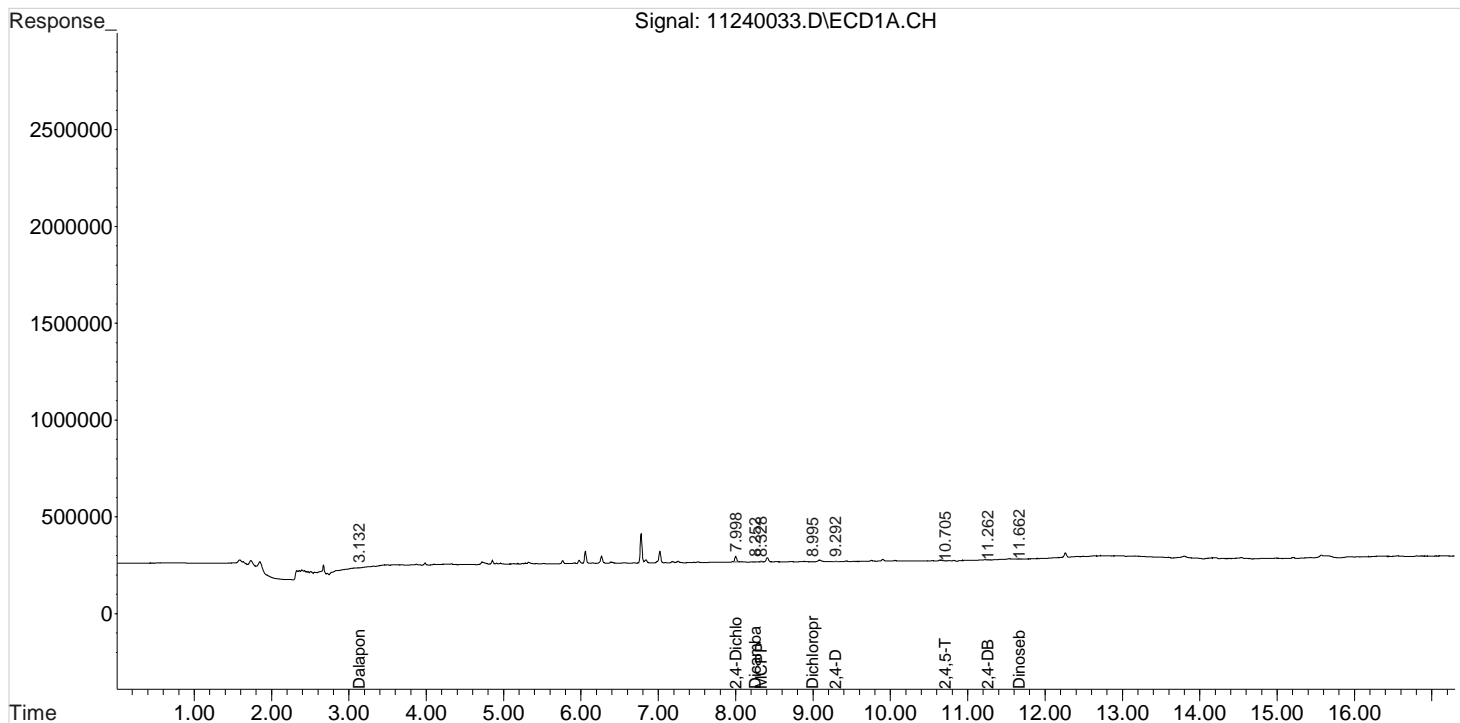
Data File : J:\gc24\data\112420\11240033.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:04 am
Sample : K2010308-017 20X
Misc :

Vial: 41
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:52:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

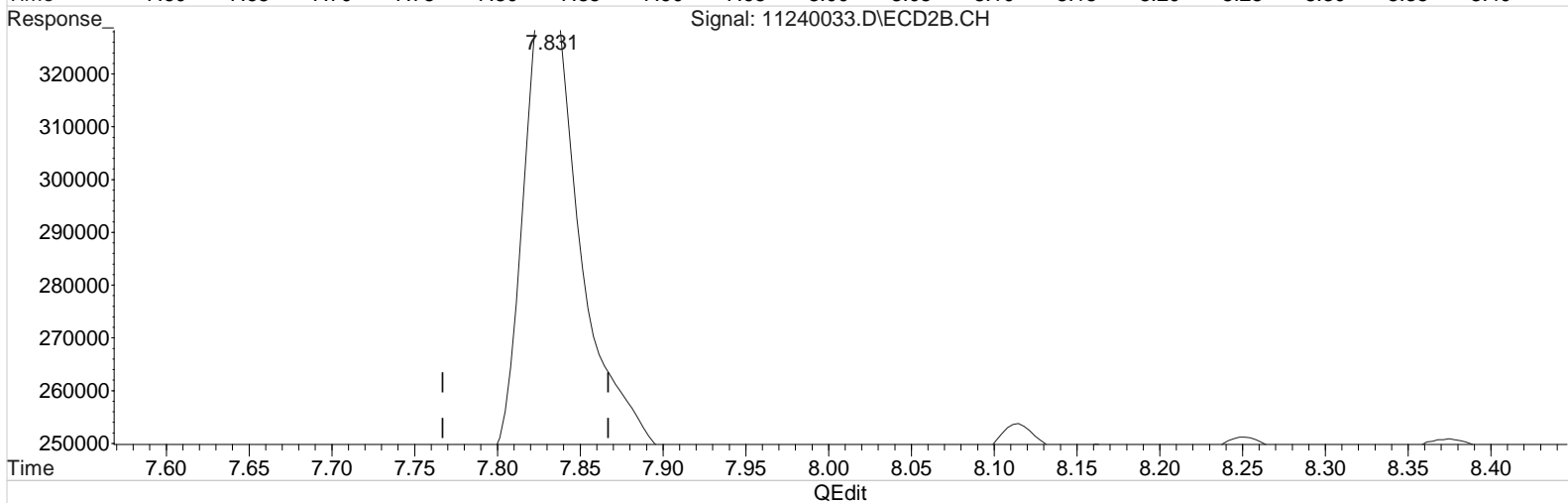
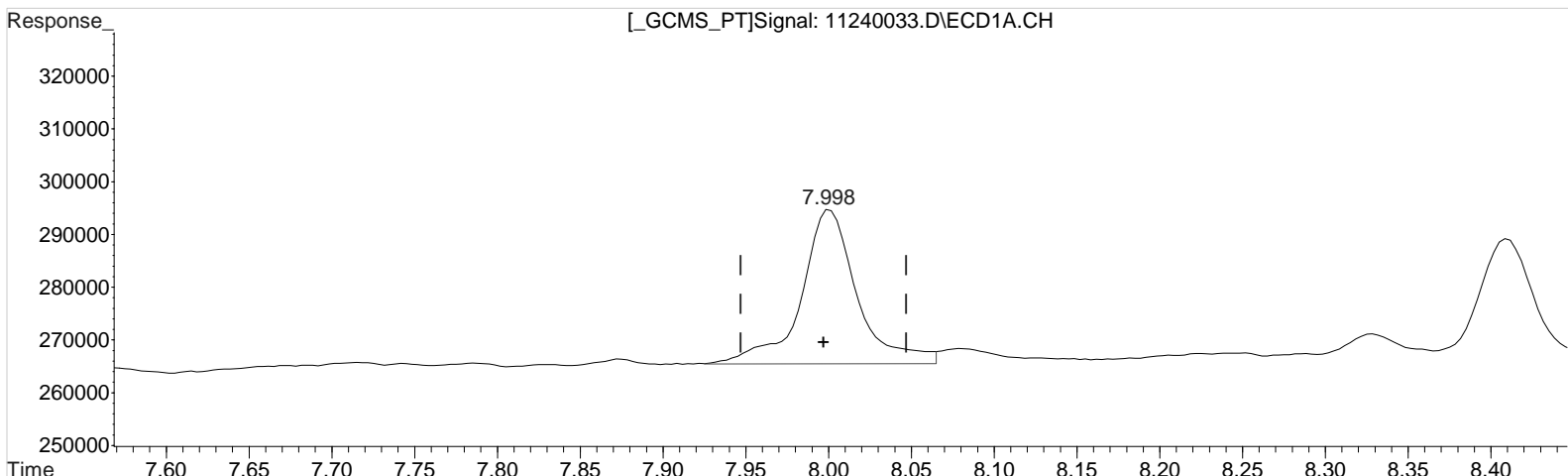
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240033.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:04 am Operator: UA
Sample : K2010308-017 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:52:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.998min 3.798 ppb
response 69106

Manual Integration:

Before

11/25/20

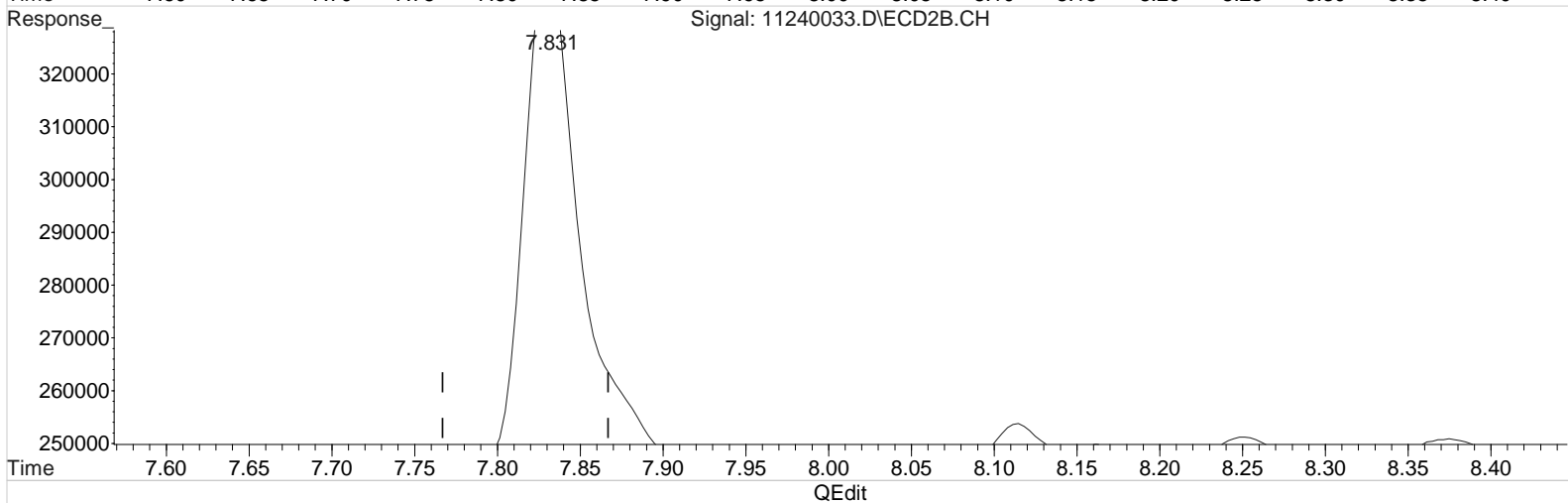
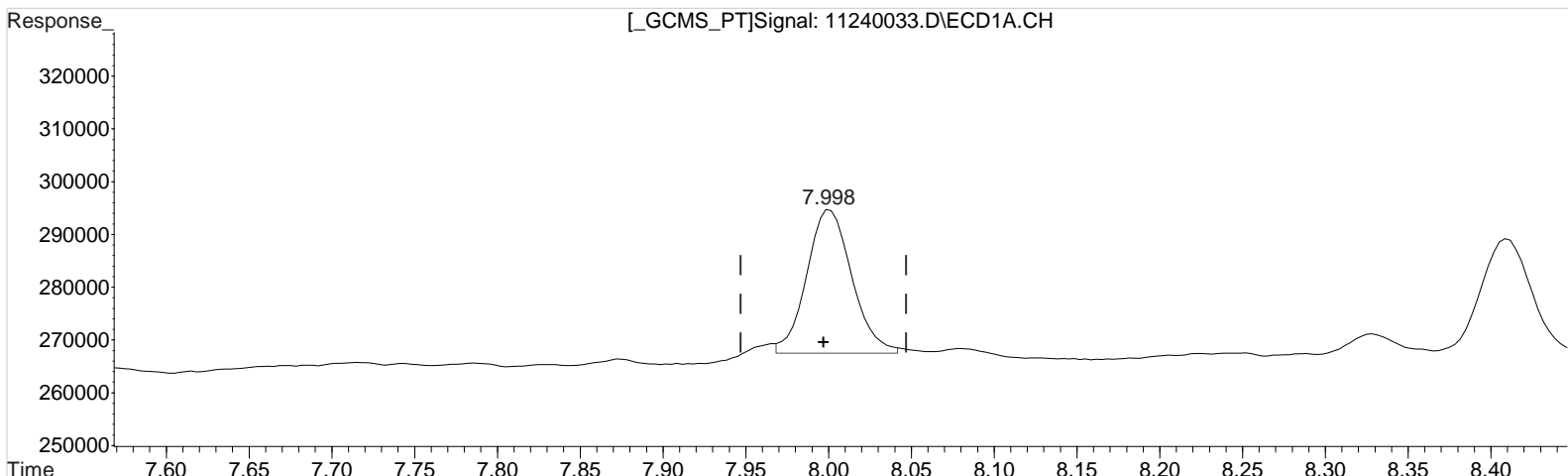
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.831min 5.266 ppb
response 222721

Data File : J:\gc24\data\112420\11240033.D Vial: 41
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:04 am Operator: UA
Sample : K2010308-017 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:52:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.998min 2.824 ppb m
response 51395

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.831min 5.266 ppb
response 222721

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240034.D\
Lab ID: K2010308-018
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 03:27:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240034.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 03:27:00	Vial: 28
Run Type: N/A	Dilution: 20
Lab ID: K2010308-018	Raw Units: ppb

Bottle ID: K2010308-018.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	51599	215800	2.836	5.102	57	102	57	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.10 ^{-0.03}	1369	132403	0.015	0.652	0.94U	41U	91 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	2256	19996	0.106	0.391	6.7U	25U	290 U	Y

Prep Amount: 30.297 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 52.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240034.D Vial: 42
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 3:27 am Operator: UA
 Sample : K2010308-018 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:53:22 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.828	51599	215800	2.836m	5.102 #
Target Compounds						
1) m Dalapon	3.138	2.878	6040	15946	0.249	0.330 #
3) m Dicamba	0.000	7.948	0	9756	N.D.	0.066 #
4) m MCPP	8.325	8.111	13566	22273	800.706	N.D. #
5) m MCPA	8.545	8.368	1236	10072	21.109	N.D. #
6) m Dichloroprop	8.978	8.748	3993	7187	0.214	0.172
7) m 2,4-D	9.291	9.048	2256	19996	0.106	0.391 #
8) m 2,4,5-TP ...	10.258	10.098	1369	132403	0.015	0.652 #
9) m 2,4,5-T	10.691	10.604f	6043	11969	0.073	0.063
10) m 2,4-DB	11.265	11.181	1478	3628	0.144	0.125
11) m Dinoseb	11.658	11.378f	3219	77015	0.052	0.563 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

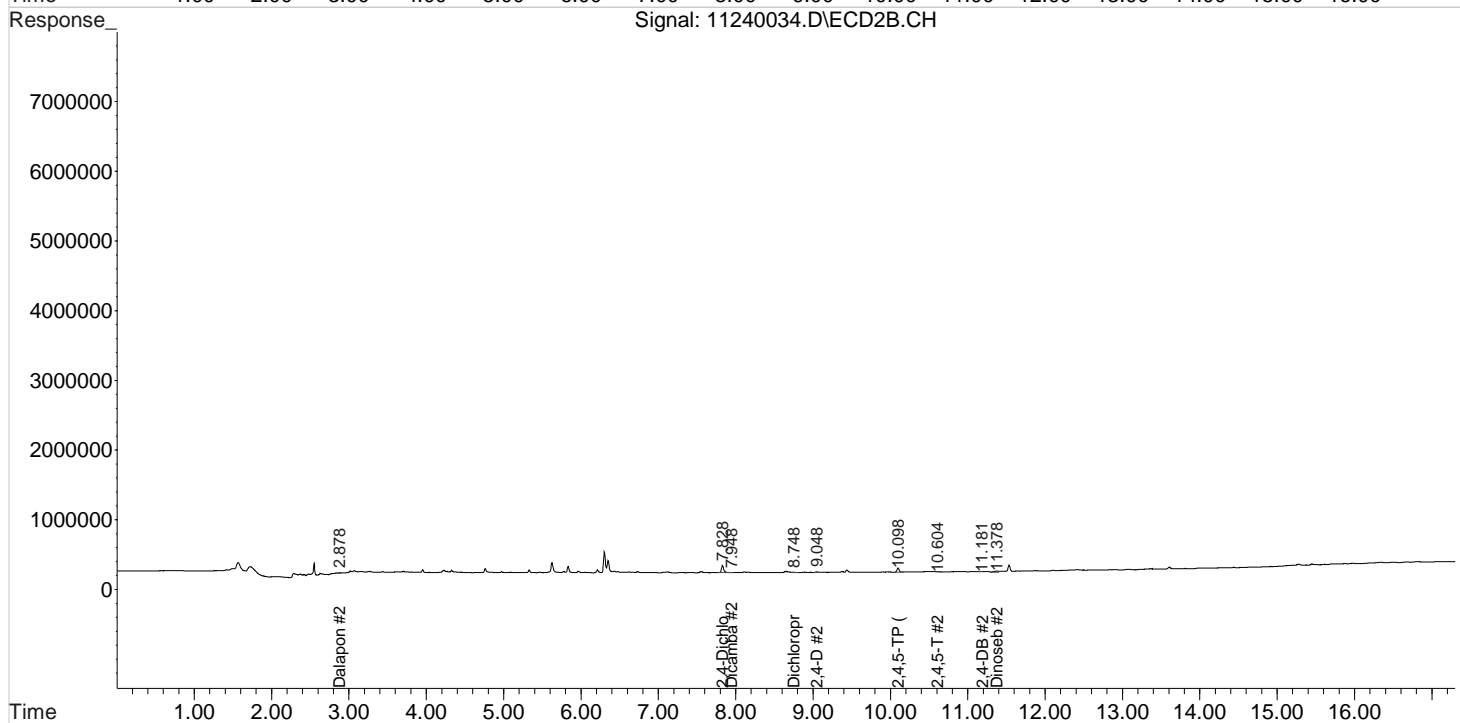
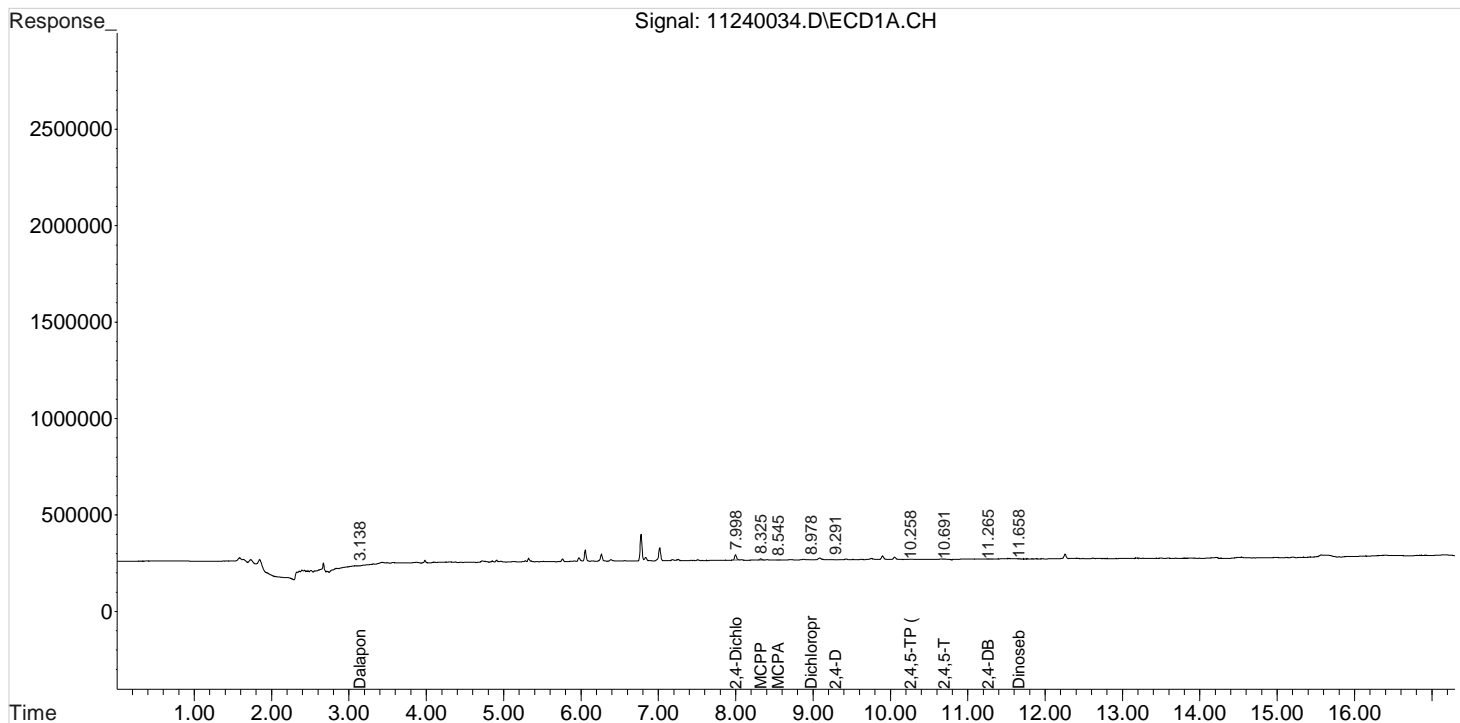
Data File : J:\gc24\data\112420\11240034.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:27 am
Sample : K2010308-018 20X
Misc :

Vial: 42
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:53:22 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

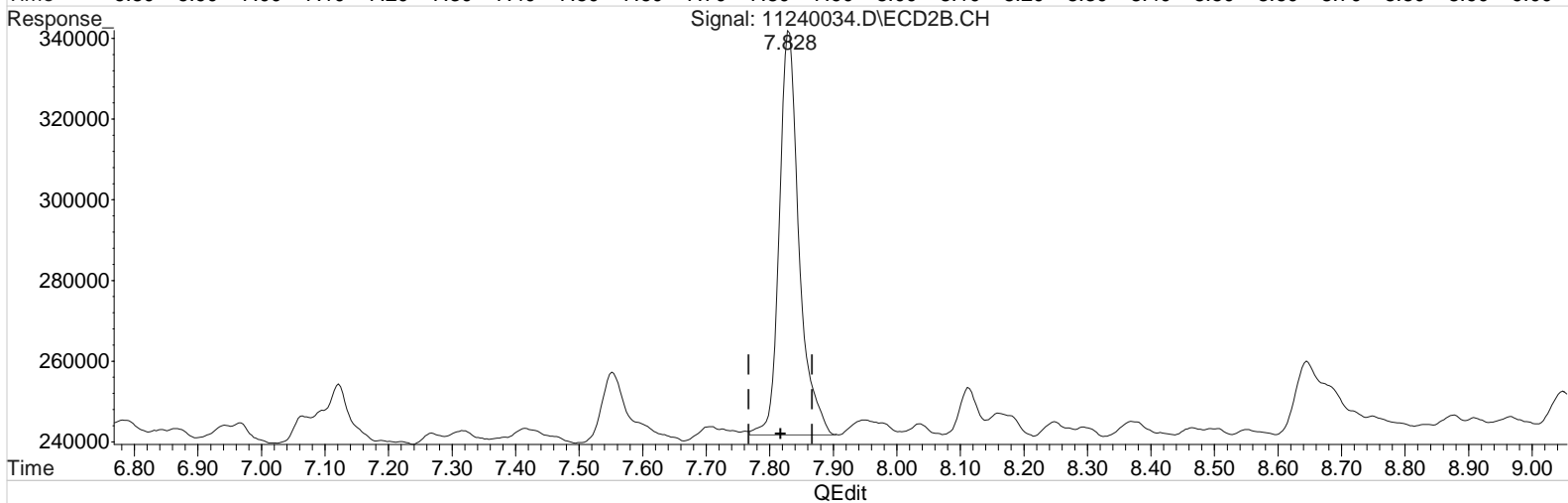
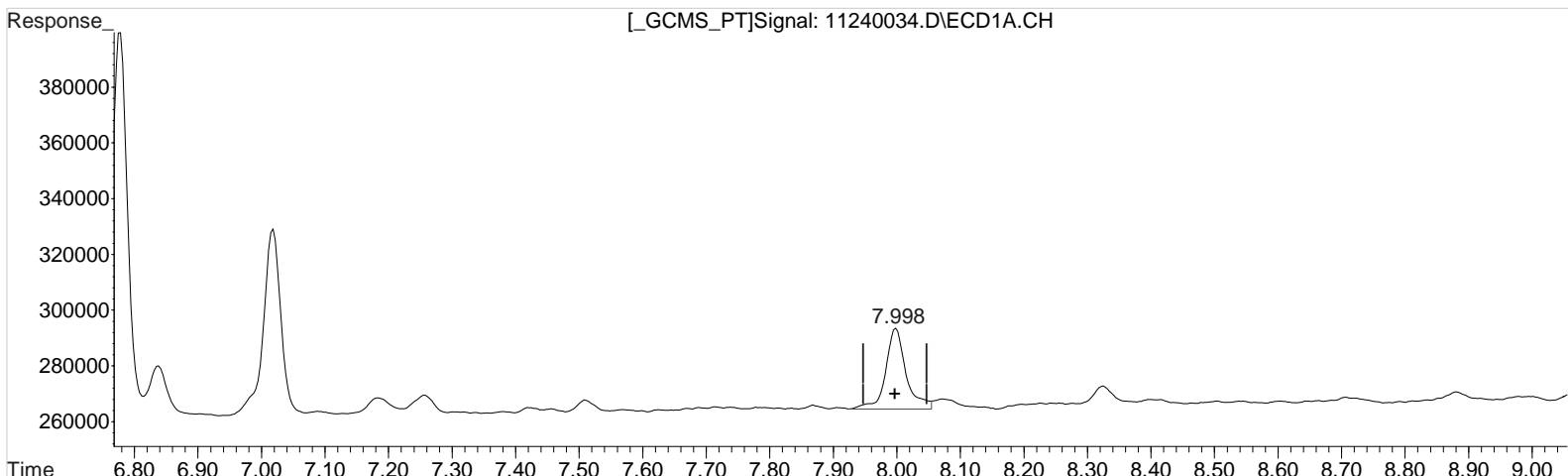
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240034.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:27 am Operator: UA
Sample : K2010308-018 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:53:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.998min 3.578 ppb
response 65113

Manual Integration:

Before

11/25/20

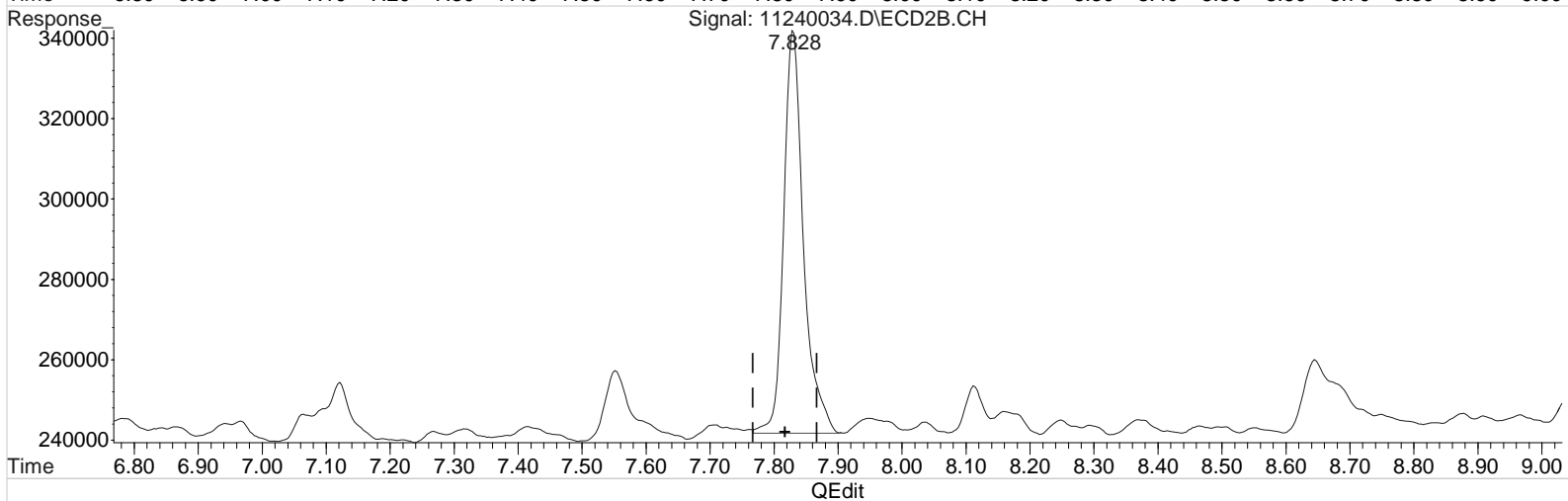
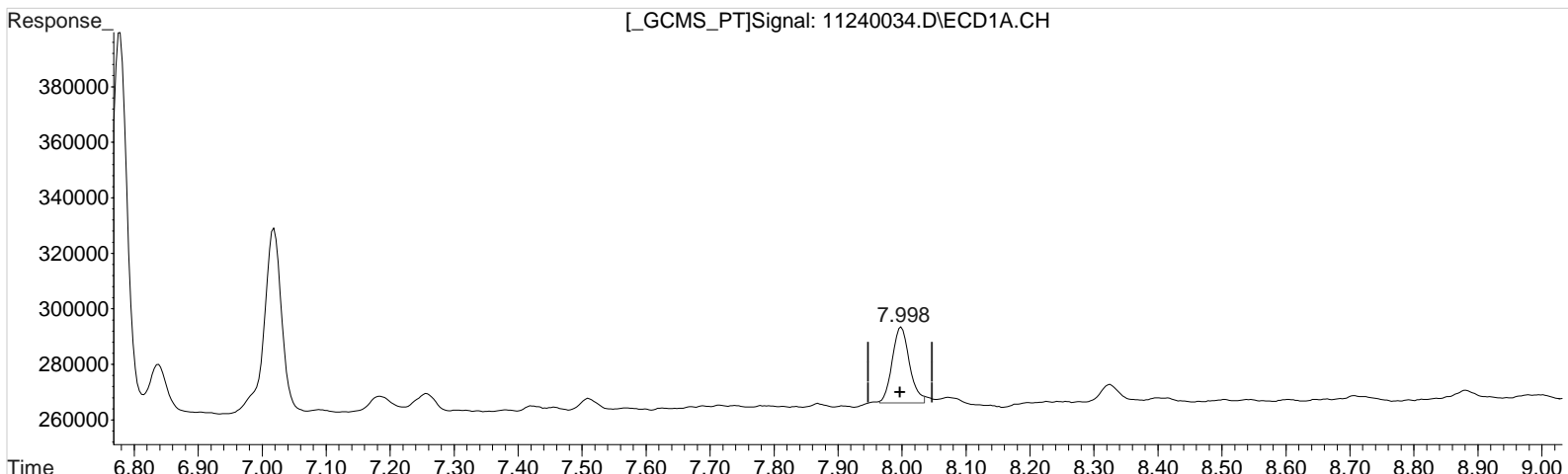
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.828min 5.102 ppb
response 215800

Data File : J:\gc24\data\112420\11240034.D Vial: 42
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:27 am Operator: UA
Sample : K2010308-018 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:53:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.998min 2.836 ppb m
response 51599

Manual Integration:

After

Baseline/Shoulder

11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.828min 5.102 ppb
response 215800

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240023.D\
Lab ID: K2010308-019
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 23:16:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240023.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 23:16:00	Vial: 29
Run Type: N/A	Dilution: 1
Lab ID: K2010308-019	Raw Units: ppb

Bottle ID: K2010308-019.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1262349	3083653	69.373	72.903	69	73	69	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	24373	1096438	0.260	5.401	0.97U	20J	5.4 U	Y
2,4-D	9.32	9.02 ^{-0.04}	18800	493304	0.885	9.635	3.3U	36J	18 U	Y

Prep Amount: 30.135 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 44.40

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240023.D Vial: 33
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 11:16 pm Operator: UA
 Sample : K2010308-019 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:46:20 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.981	7.814	1262349	3083653	69.373	72.903
Target Compounds						
1) m Dalapon	3.138	2.871	18399	446108	0.758	9.234 #
3) m Dicamba	8.228	7.921	21078	40512	0.302	0.273
4) m MCPP	8.305	8.095	389100	290903	8881.887	591.790 #
5) m MCPA	8.615	8.345	93310	194492	1593.612	N.D. #
6) m Dichloroprop	8.958	8.758	17574	125527	0.942	3.009 #
7) m 2,4-D	9.325	9.024	18800	493304	0.885	9.635 #
8) m 2,4,5-TP ...	10.252	10.088	24373	1096438	0.260	5.401 #
9) m 2,4,5-T	10.685	10.528	121227	23250	1.469	0.121 #
10) m 2,4-DB	11.255	11.178	48338	258233	4.712	8.900 #
11) m Dinoseb	11.701	11.374f	9419	745821	0.152	5.454 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

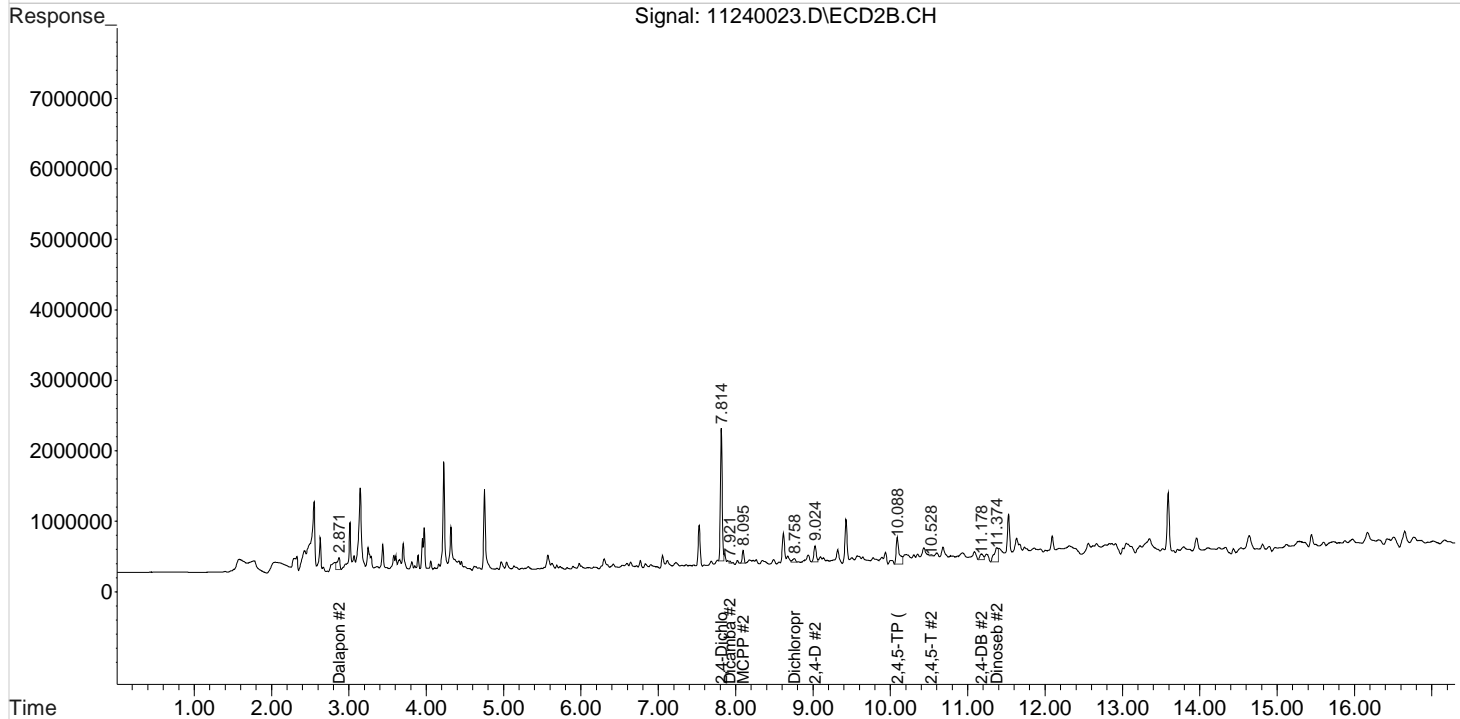
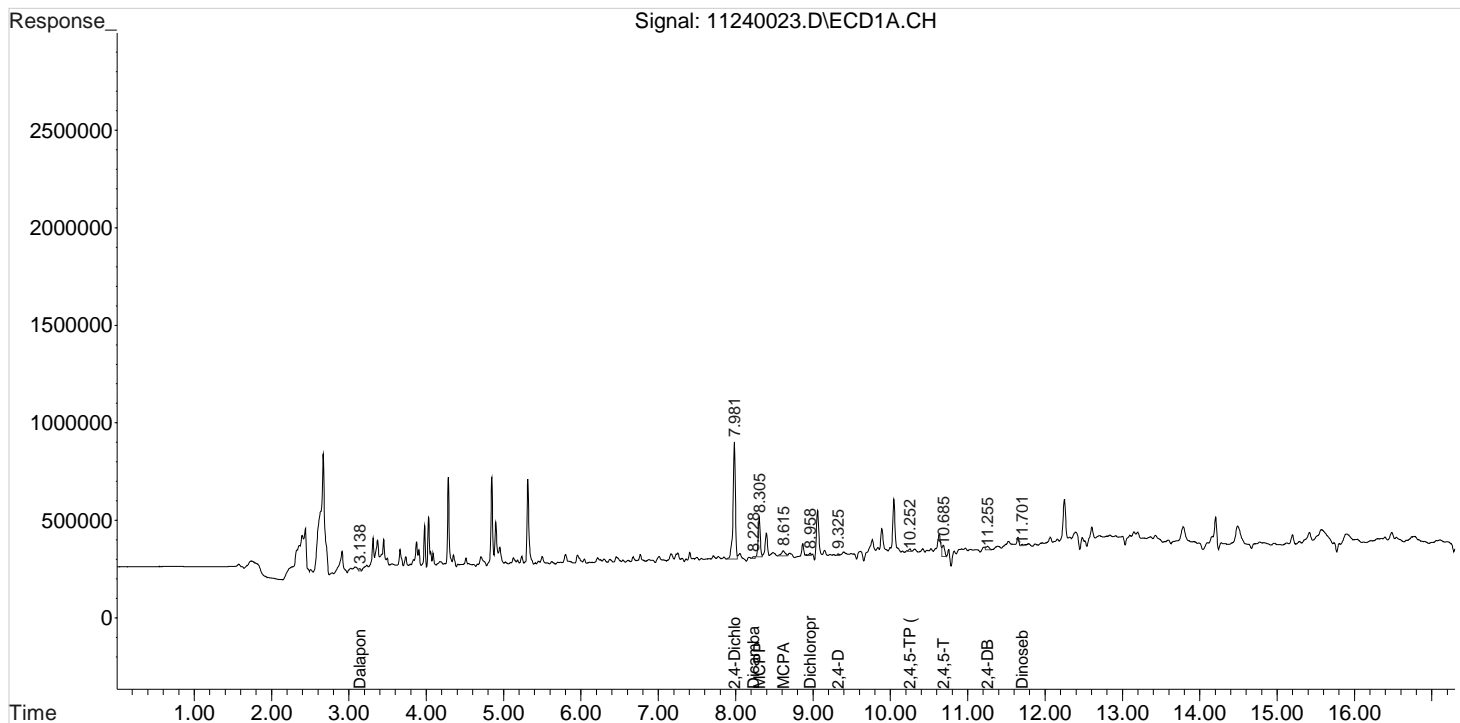
Data File : J:\gc24\data\112420\11240023.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 11:16 pm
Sample : K2010308-019
Misc :

Vial: 33
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:46:20 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240024.D\
Lab ID: K2010308-020
RunType: N/A
Matrix: Sediment

Date Acquired: 11/24/20 23:39:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240024.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 23:39:00	Vial: 30
Run Type: N/A	Dilution: 1
Lab ID: K2010308-020	Raw Units: ppb

Bottle ID: K2010308-020.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	990757	2636712	54.447	62.337	54	62	54	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	87511	45353	0.934	0.223	3.1U	0.73U	4.8 U	Y
2,4-D	9.32	9.03 ^{-0.03}	10300	514965	0.485	10.058	1.6U	33J	16 U	Y

Prep Amount: 30.246 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 50.20

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

?: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240024.D Vial: 34
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 11:39 pm Operator: UA
 Sample : K2010308-020 Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:47:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.984	7.814	990757	2636712	54.447m	62.337
Target Compounds						
1) m Dalapon	3.134	2.871	13123	233605	0.541	4.835 #
3) m Dicamba	8.234	7.964	14295	46317	0.205	0.313 #
4) m MCPP	8.304	8.097	237194	365254	5612.995	1105.659 #
5) m MCPA	8.594	8.344	71156	81805	1215.251	N.D. #
6) m Dichloroprop	8.958	8.757	31916	166828	1.712	3.999 #
7) m 2,4-D	9.324	9.031	10300	514965	0.485	10.058 #
8) m 2,4,5-TP ...	10.251	10.127	87511	45353	0.934	0.223 #
9) m 2,4,5-T	10.684	10.527	108619	38736	1.316	0.202 #
10) m 2,4-DB	11.261	11.181	64592	276839	6.296	9.541 #
11) m Dinoseb	11.701	11.374f	10751	742709	0.174	5.431 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

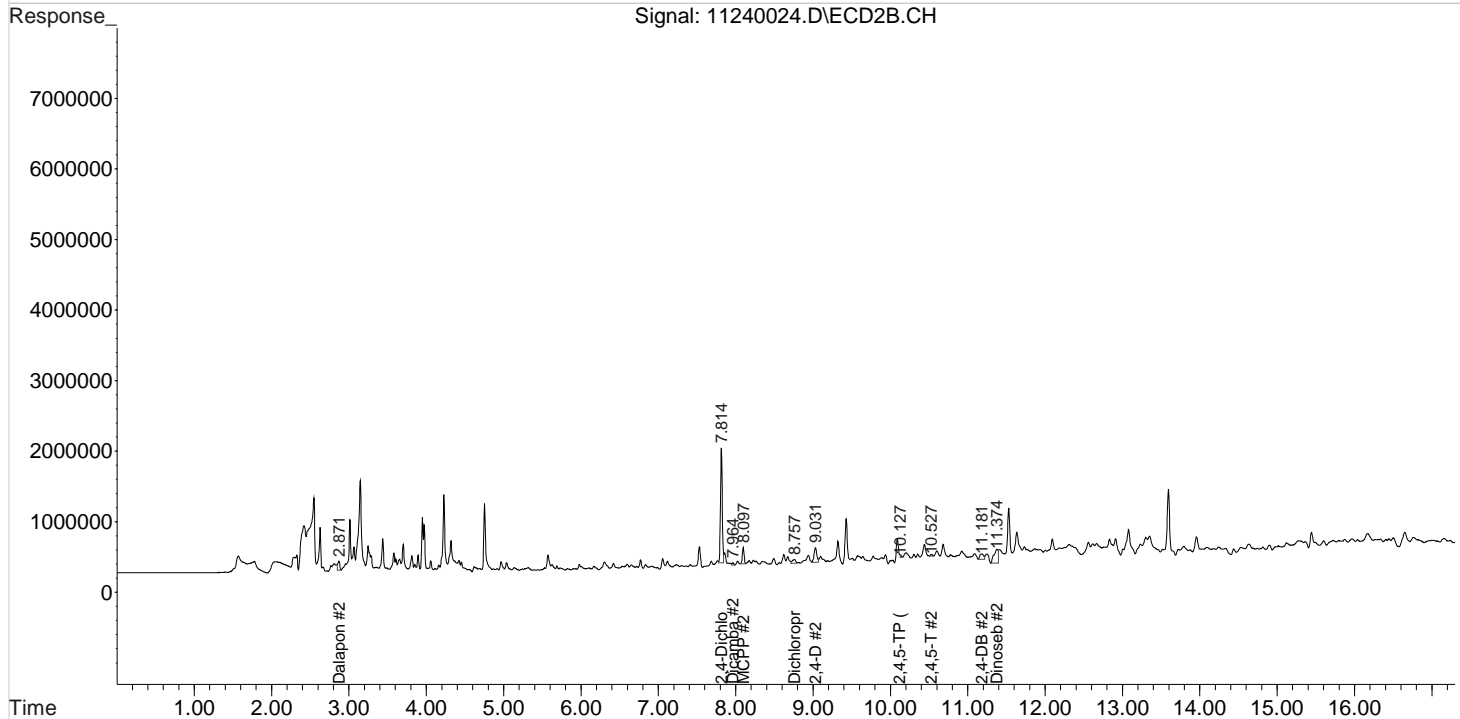
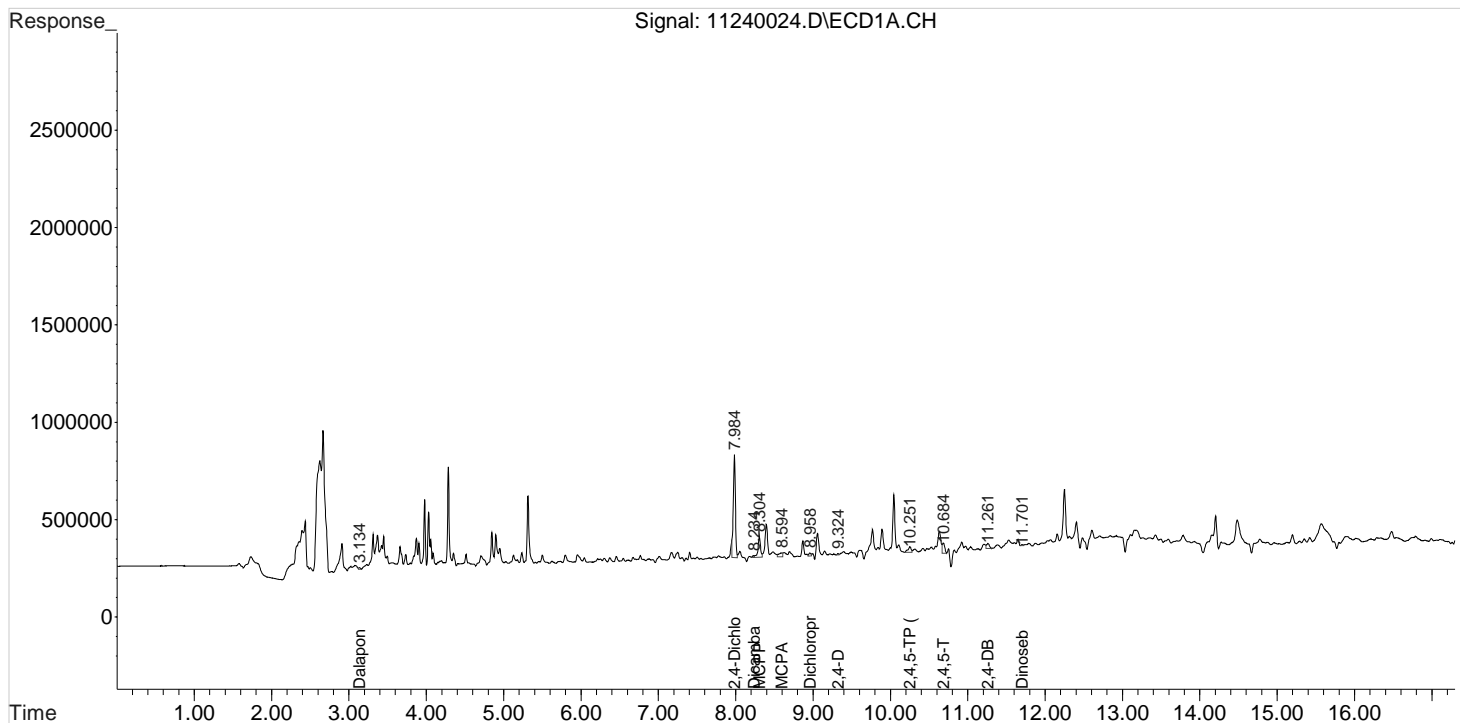
Data File : J:\gc24\data\112420\11240024.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 11:39 pm
Sample : K2010308-020
Misc :

Vial: 34
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:47:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

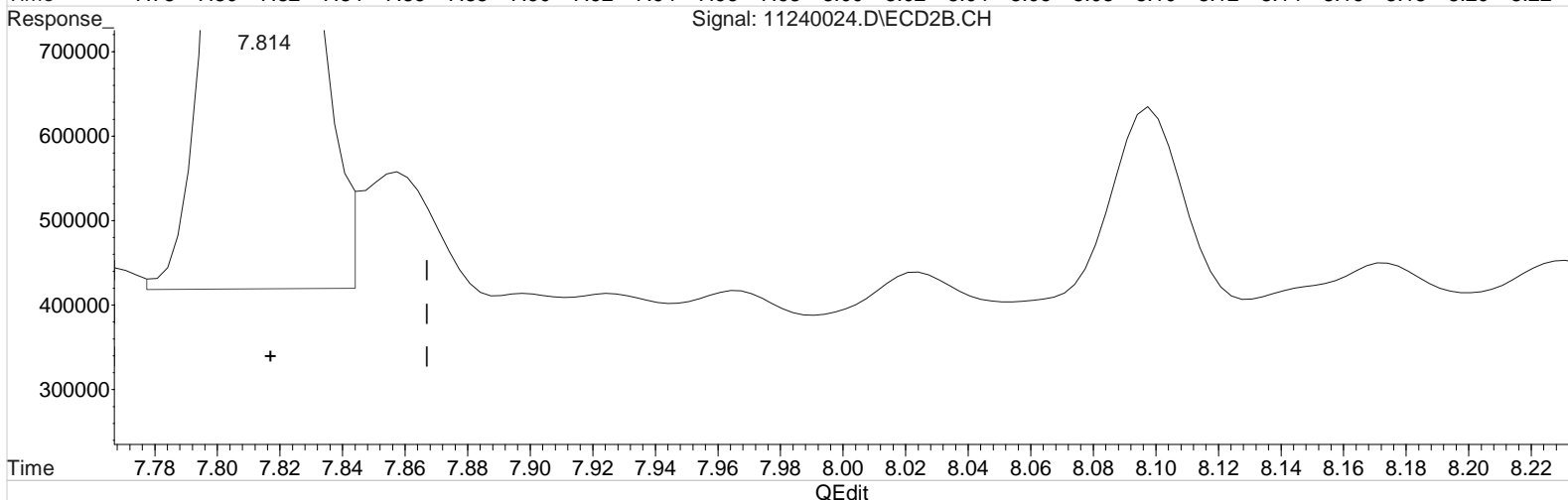
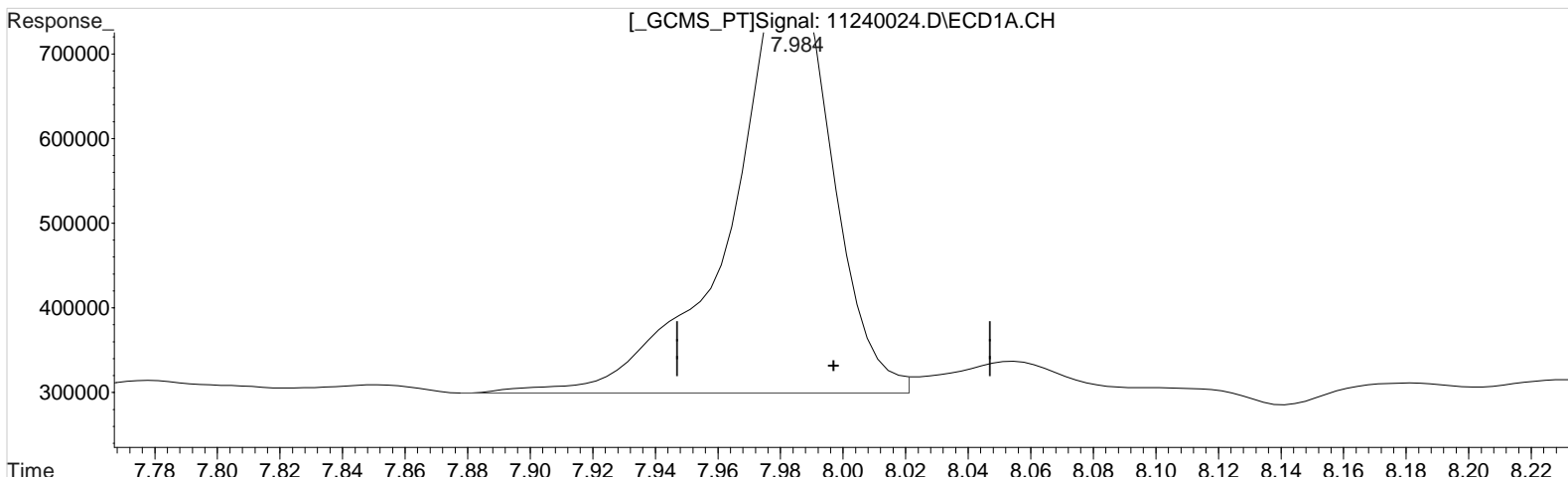
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240024.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 11:39 pm Operator: UA
Sample : K2010308-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:46:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.984min 62.761 ppb
response 1142042

Manual Integration:

Before

11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

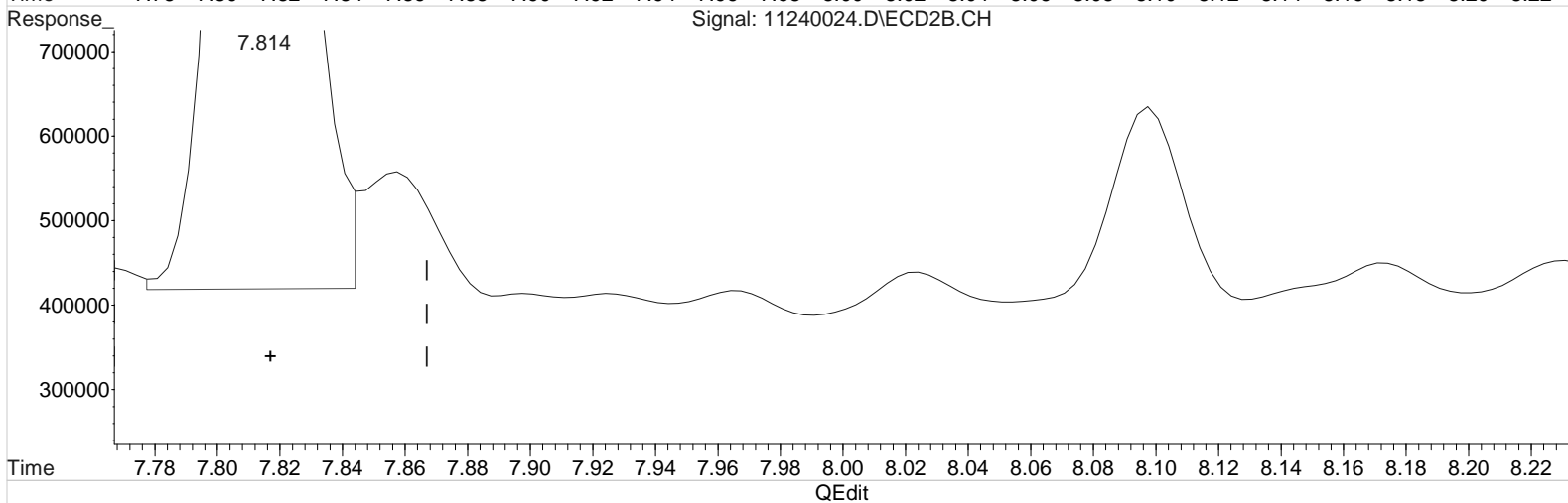
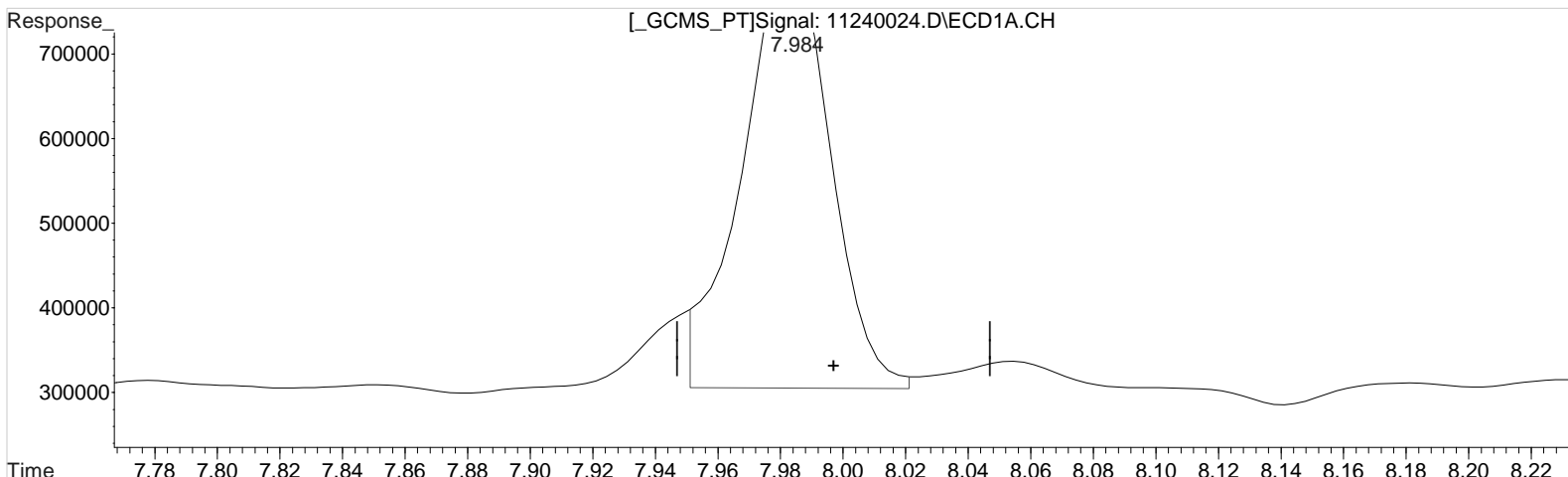
7.814min 62.337 ppb
response 2636712

(+) = Expected Retention Time

Data File : J:\gc24\data\112420\11240024.D Vial: 34
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 11:39 pm Operator: UA
Sample : K2010308-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:46:44 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.984min 54.447 ppb m
response 990757

Manual Integration:

After
Baseline/Shoulder
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.814min 62.337 ppb
response 2636712

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240035.D\
Lab ID: K2010308-021
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 03:50:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240035.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 03:50:00	Vial: 35
Run Type: N/A	Dilution: 20
Lab ID: K2010308-021	Raw Units: ppb

Bottle ID: K2010308-021.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	59535	207646	3.272	4.909	65	98	65	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.10 ^{-0.03}	1776	95397	0.019	0.470	1.1U	28U	85 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	1897	41386	0.089	0.808	5.2U	48U	280 U	Y

Prep Amount: 30.195 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.20

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240035.D Vial: 43
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 3:50 am Operator: UA
 Sample : K2010308-021 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:53:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.998	7.827	59535	207646	3.272	4.909 #
Target Compounds						
1) m Dalapon	3.141	2.877	4436	14439	0.183	0.299 #
3) m Dicamba	0.000	7.937	0	4631	N.D.	0.031 #
4) m MCPP	8.328	8.114	17016	20871	874.947	N.D. #
5) m MCPA	8.608	8.374	1195	10899	20.409	N.D. #
6) m Dichloroprop	8.988	0.000	1821	0	0.098	N.D. #
7) m 2,4-D	9.294	9.047	1897	41386	0.089	0.808 #
8) m 2,4,5-TP ...	10.268	10.097	1776	95397	0.019	0.470 #
9) m 2,4,5-T	10.704	10.561	3718	2185	0.045	0.011 #
10) m 2,4-DB	11.271	11.194	1837	7417	0.179	0.256 #
11) m Dinoseb	11.654	11.271	4548	16616	0.074	0.122 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

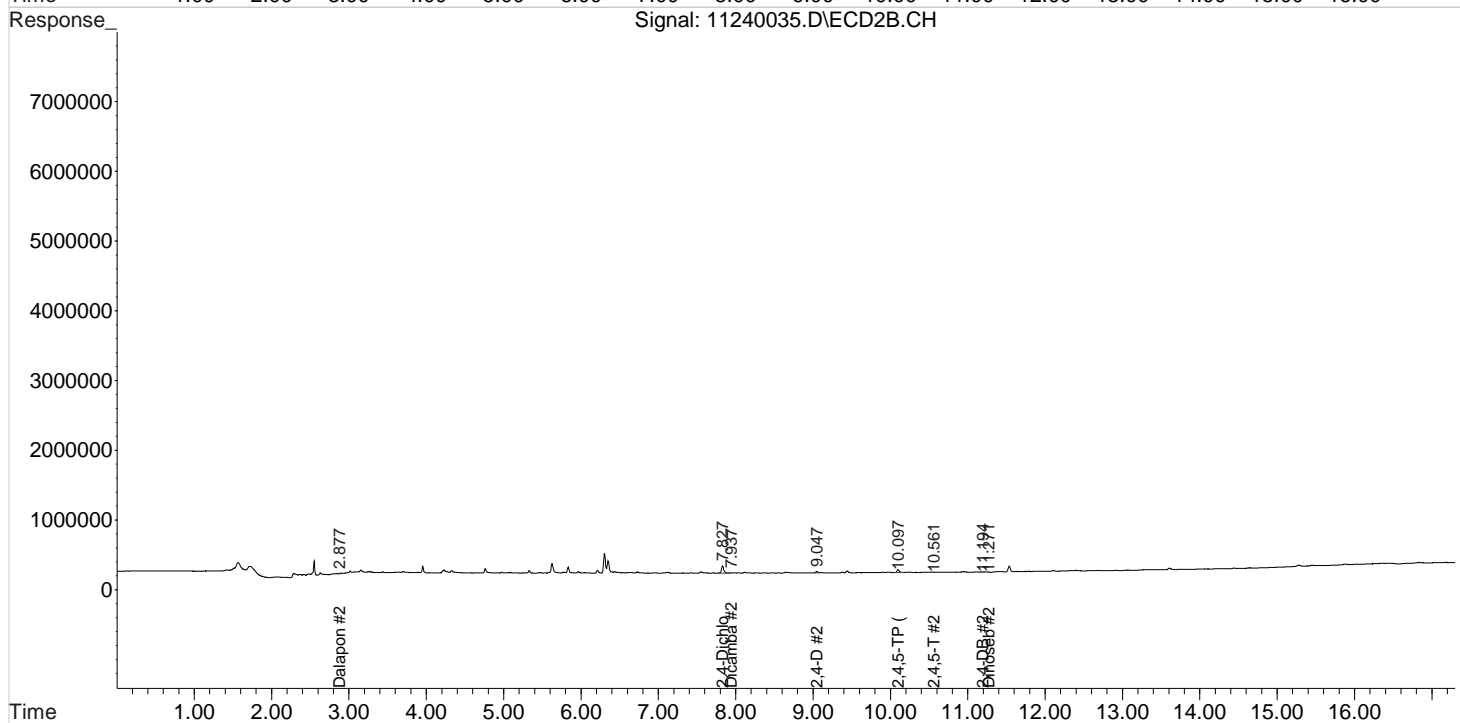
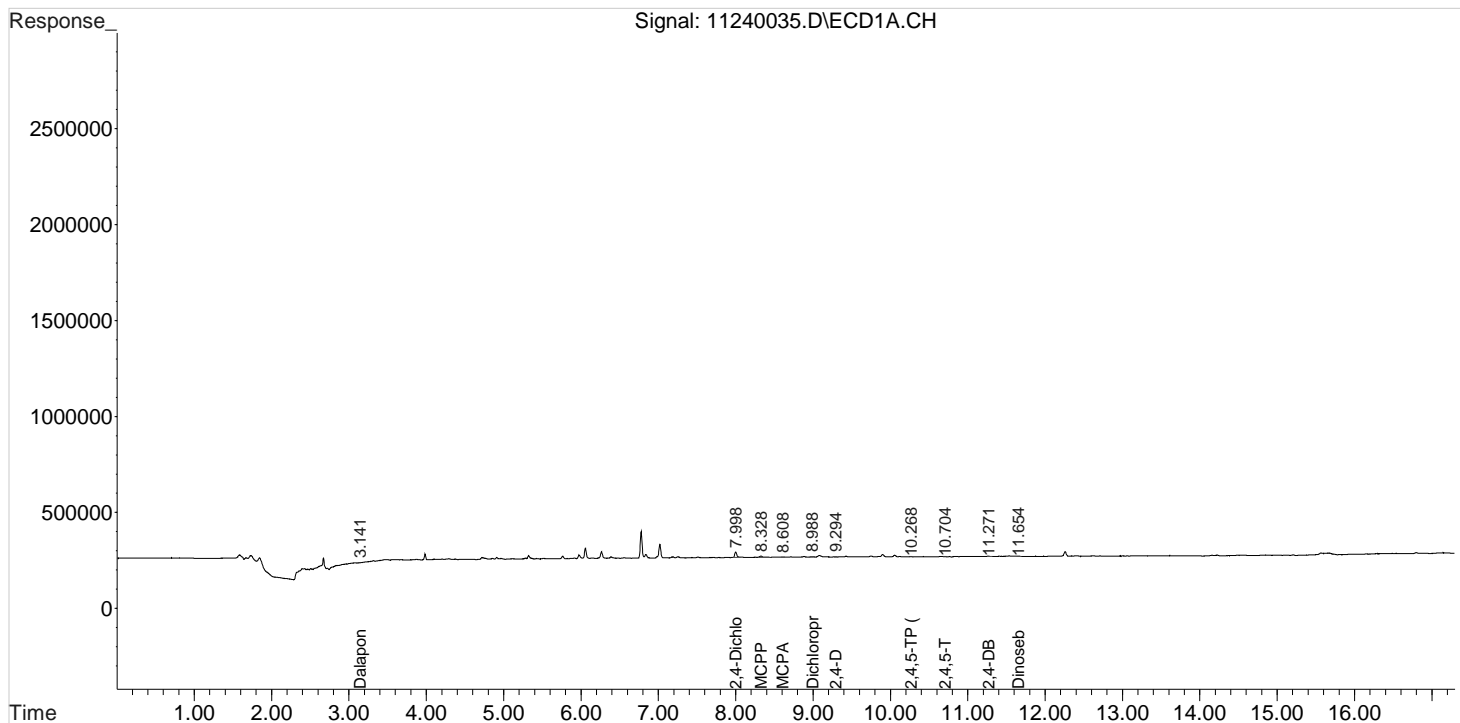
Data File : J:\gc24\data\112420\11240035.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 3:50 am
Sample : K2010308-021 20X
Misc :

Vial: 43
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:53:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240036.D\
Lab ID: K2010308-022
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 04:13:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240036.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 04:13:00	Vial: 36
Run Type: N/A	Dilution: 20
Lab ID: K2010308-022	Raw Units: ppb

Bottle ID: K2010308-022.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	55208	202664	3.034	4.791	61	96	61	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.15 ^{+0.02}	1574	9648	0.017	0.048	1.0U	2.9U	88 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.01}	4352	45371	0.205	0.886	12U	54U	290 U	Y

Prep Amount: 30.132 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 54.60

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240036.D Vial: 44
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 4:13 am Operator: UA
 Sample : K2010308-022 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:53:56 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.999	7.829	55208	202664	3.034	4.791 #
Target Compounds						
1) m Dalapon	3.149	2.879	6812	27530	0.281	0.570 #
3) m Dicamba	8.229	7.935	2434	7635	0.035	0.052 #
4) m MCPP	8.326	8.112	14790	10435	827.045	N.D. #
5) m MCPA	0.000	8.369	0	16622	N.D.	N.D.
6) m Dichloroprop	8.986	8.679f	2118	13157	0.114	0.315 #
7) m 2,4-D	9.286	9.045	4352	45371	0.205	0.886 #
8) m 2,4,5-TP ...	10.269	10.145	1574	9648	0.017	0.048 #
9) m 2,4,5-T	10.699	10.545	5173	3627	0.063	0.019 #
10) m 2,4-DB	11.259	11.182	1177	6481	0.115	0.223 #
11) m Dinoseb	11.666	11.255f	1415	77416	0.023	0.566 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

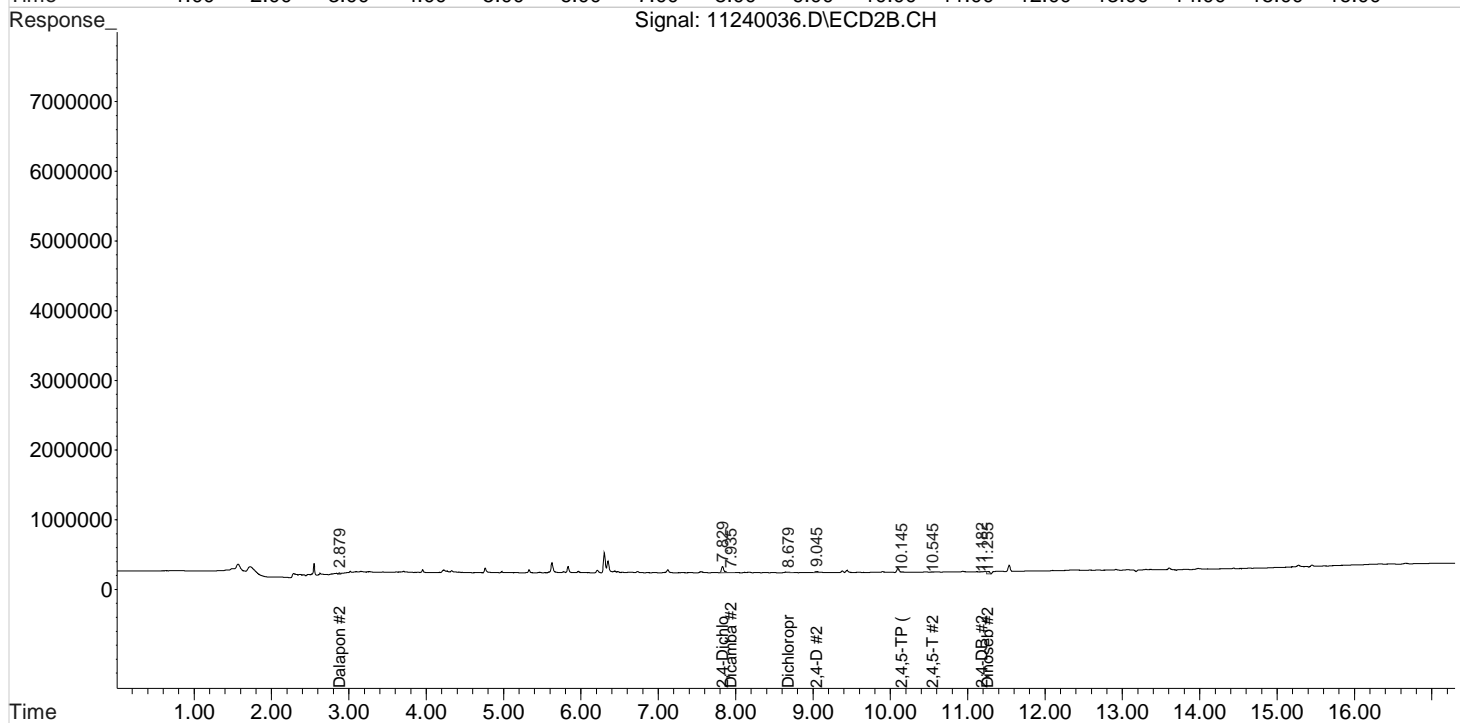
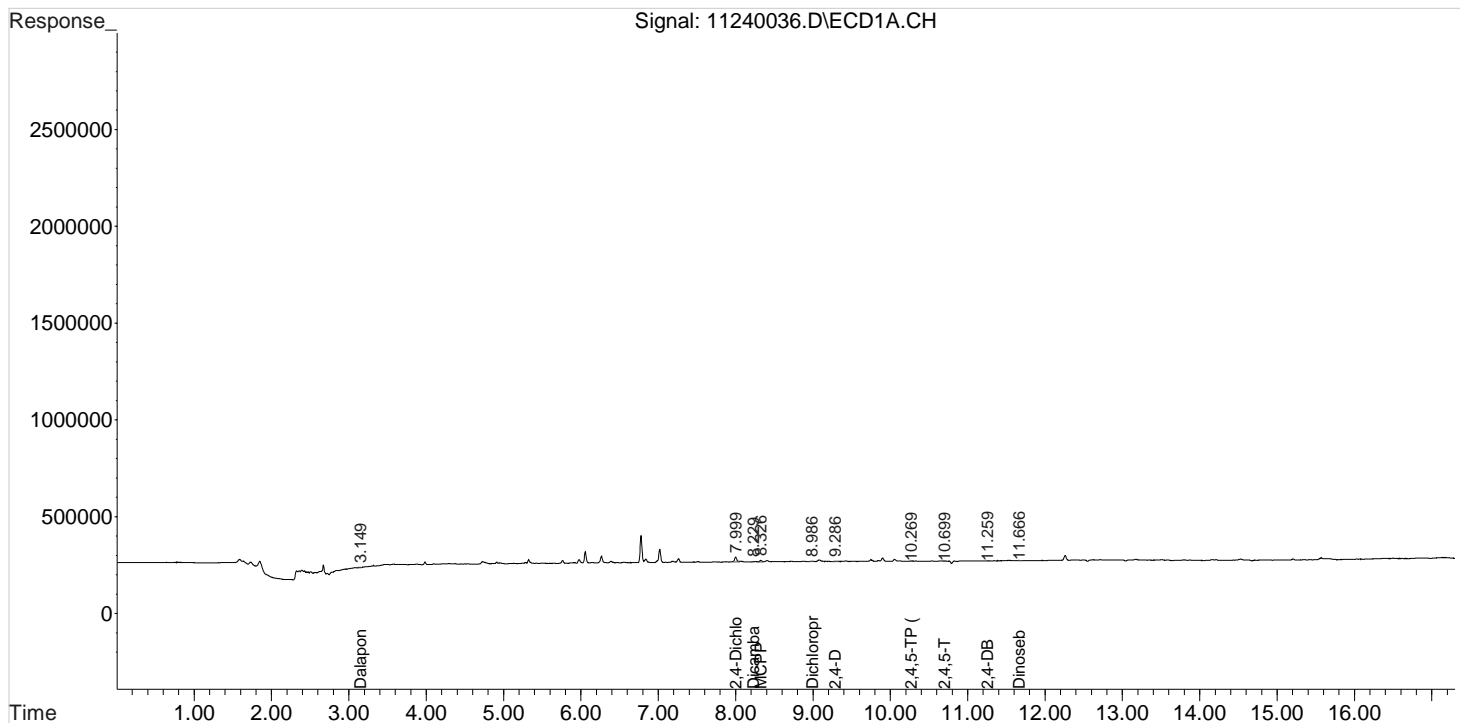
Data File : J:\gc24\data\112420\11240036.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 4:13 am
Sample : K2010308-022 20X
Misc :

Vial: 44
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:53:56 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240037.D\
Lab ID: K2010308-023
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 04:36:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240037.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 04:36:00	Vial: 37
Run Type: N/A	Dilution: 20
Lab ID: K2010308-023	Raw Units: ppb

Bottle ID: K2010308-023.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	41892	188695	2.302	4.461	46	89	46	26 - 127 P	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.02}	10.09 ^{-0.04}	16357	142713	0.175	0.703	10U	40U	83 U	Y
2,4-D	9.27 ^{-0.05}	9.03 ^{-0.03}	6576	46568	0.310	0.910	18U	52U	270 U	Y

Prep Amount: 30.173 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 57.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240037.D Vial: 45
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 4:36 am Operator: UA
 Sample : K2010308-023 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:54:48 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.987	7.820	41892	188695	2.302m	4.461m#
Target Compounds						
1) m Dalapon	3.147	2.880	3431	29533	0.141	0.611 #
3) m Dicamba	8.197	7.930	1648	33356	0.024	0.225 #
4) m MCPP	8.314	8.103	21175	37559	964.445	N.D. #
5) m MCPA	8.530	8.357	82855	84709	1415.054	N.D. #
6) m Dichloroprop	8.980	8.707	4575	12487	0.245	0.299
7) m 2,4-D	9.274f	9.033	6576	46568	0.310	0.910 #
8) m 2,4,5-TP ...	10.267	10.087	16357	142713	0.175	0.703 #
9) m 2,4,5-T	10.687	10.590f	10833	95432	0.131	0.499 #
10) m 2,4-DB	0.000	11.197	0	91228	N.D.	3.144 #
11) m Dinoseb	0.000	11.257	0	198138	N.D.	1.449 #

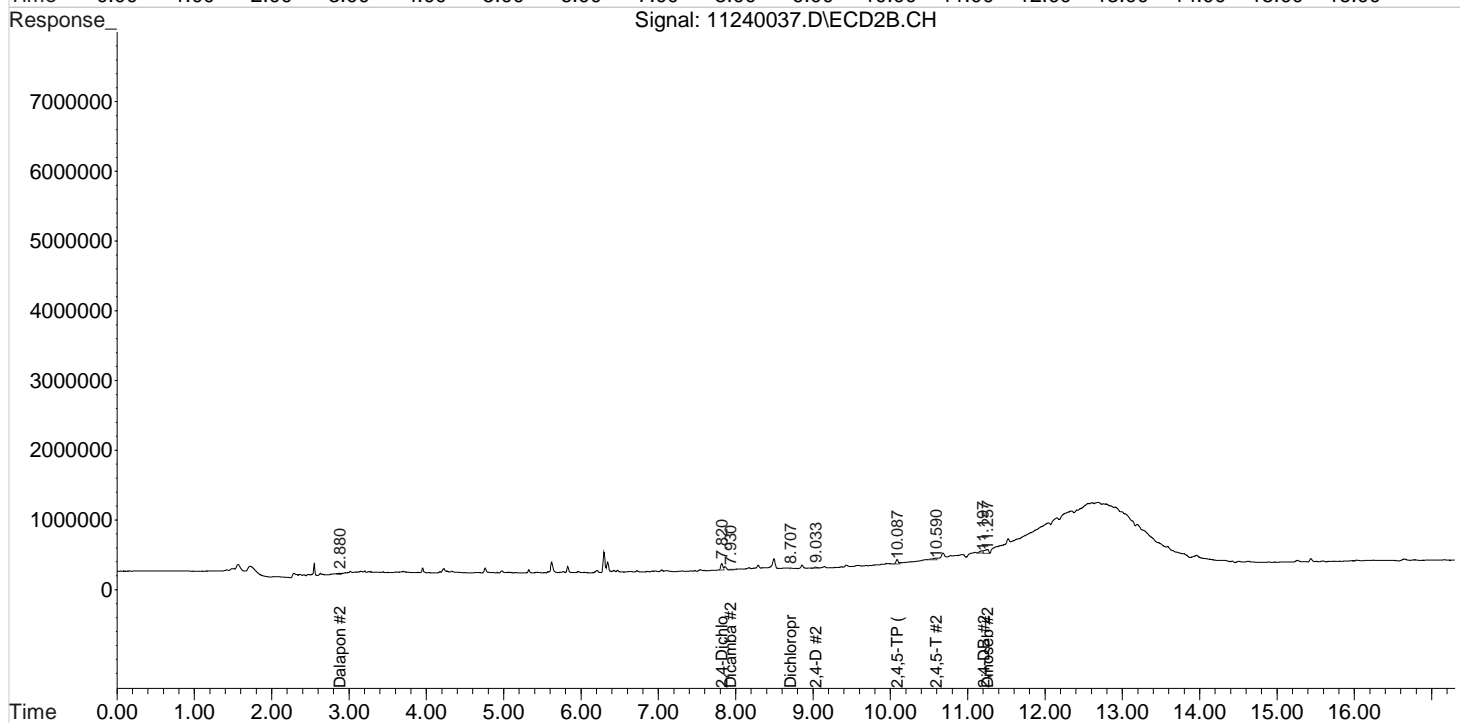
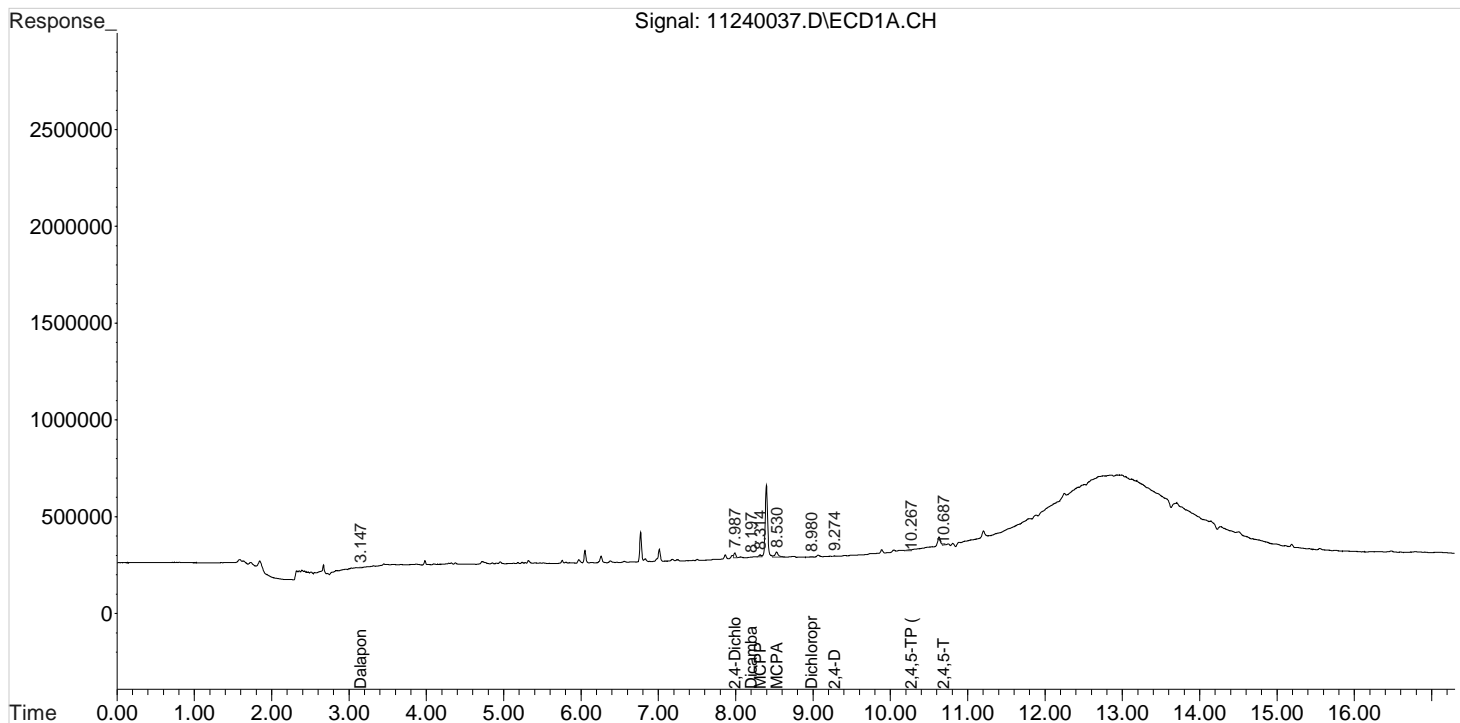
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112420\11240037.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 4:36 am
Sample : K2010308-023 20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:54:48 2020
Quant Results File: 102120_8151.RES

Vial: 45
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

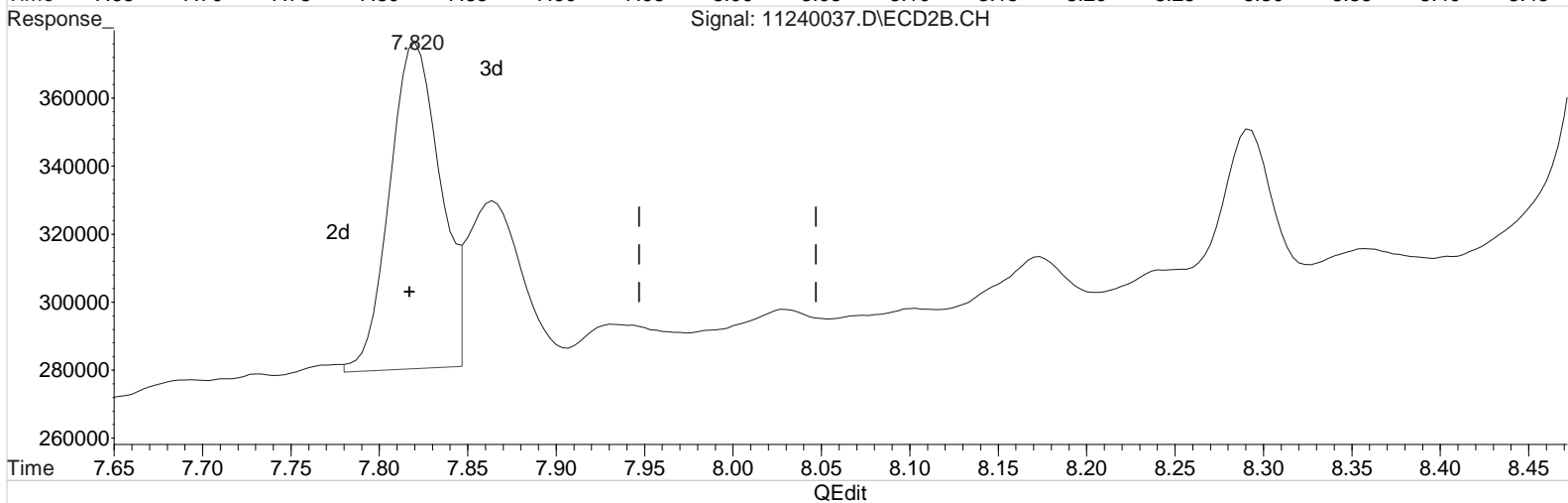
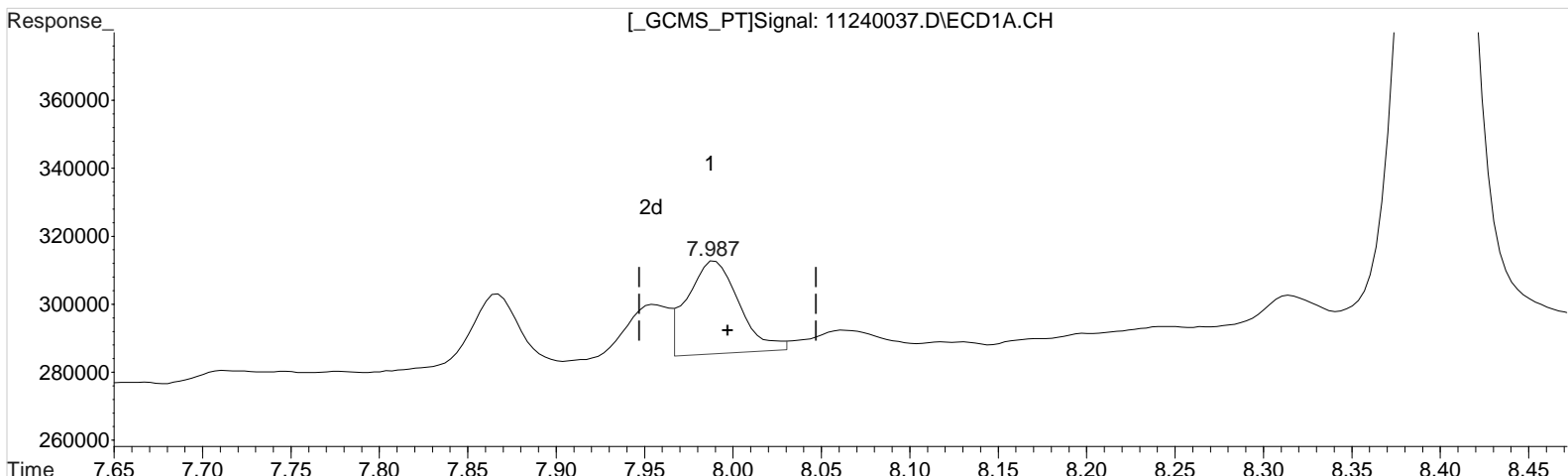
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240037.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 4:36 am Operator: UA
Sample : K2010308-023 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:54:18 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.987min 2.973 ppb
response 54103

Manual Integration:

Before

11/25/20

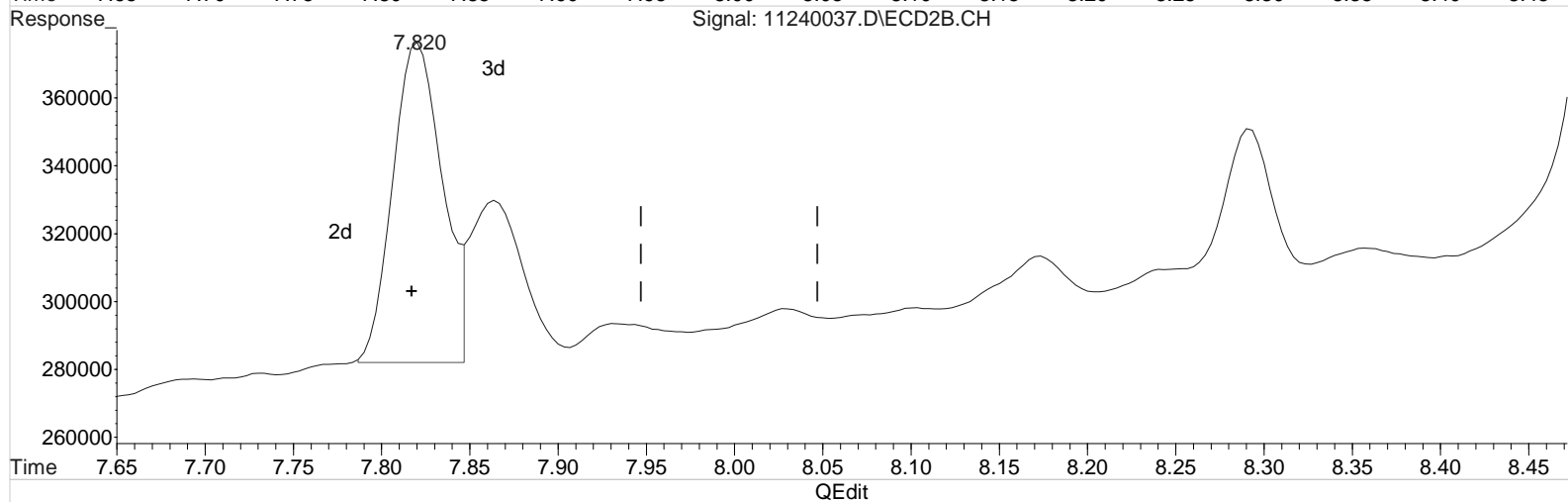
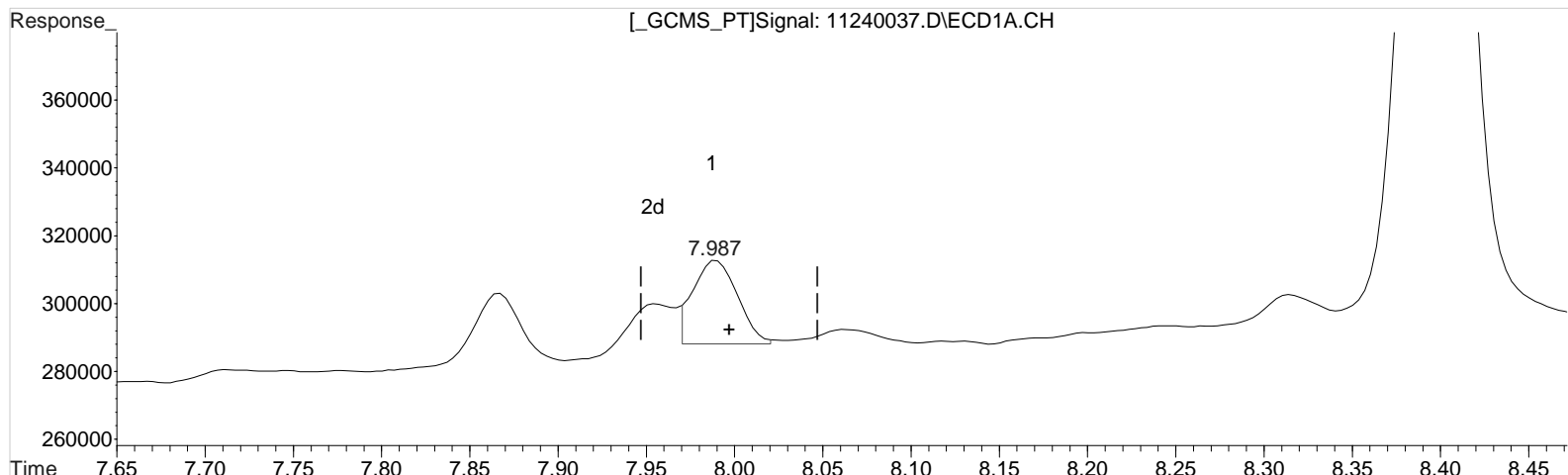
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.820min 4.639 ppb
response 196220

Data File : J:\gc24\data\112420\11240037.D Vial: 45
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 4:36 am Operator: UA
Sample : K2010308-023 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:54:18 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.987min 2.302 ppb m
response 41892

Manual Integration:

After
Baseline/Shoulder
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.820min 4.461 ppb m
response 188695

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240038.D\
Lab ID: K2010308-024
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 04:59:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240038.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 04:59:00	Vial: 38
Run Type: N/A	Dilution: 20
Lab ID: K2010308-024	Raw Units: ppb

Bottle ID: K2010308-024.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.82	40110	202064	2.204	4.777	44	96	44	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.08 ^{-0.05}	2898	123556	0.031	0.609	1.8U	35U	83 U	Y
2,4-D	9.33 ^{+0.01}	9.06	1258	10192	0.059	0.199	3.4U	11U	270 U	Y

Prep Amount: 30.287 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 57.80

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240038.D Vial: 46
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 4:59 am Operator: UA
 Sample : K2010308-024 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:55:05 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.984	7.817	40110	202064	2.204	4.777 #
Target Compounds						
1) m Dalapon	3.147	2.877	2704	13714	0.111	0.284 #
3) m Dicamba	8.247	7.933	25377	34127	0.364	0.230 #
4) m MCPP	8.310	8.100	59291	29259	1784.670	N.D. #
5) m MCPA	8.600	8.357	6908	100617	117.980	N.D. #
6) m Dichloroprop	8.974	8.703	11705	32554	0.628	0.780
7) m 2,4-D	9.327	9.060	1258	10192	0.059	0.199 #
8) m 2,4,5-TP ...	10.257	10.083	2898	123556	0.031	0.609 #
9) m 2,4,5-T	10.687	10.523	6565	3012	0.080	0.016 #
10) m 2,4-DB	0.000	11.173	0	113073	N.D.	3.897 #
11) m Dinoseb	11.650	11.257	61521	118358	0.994	0.865

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

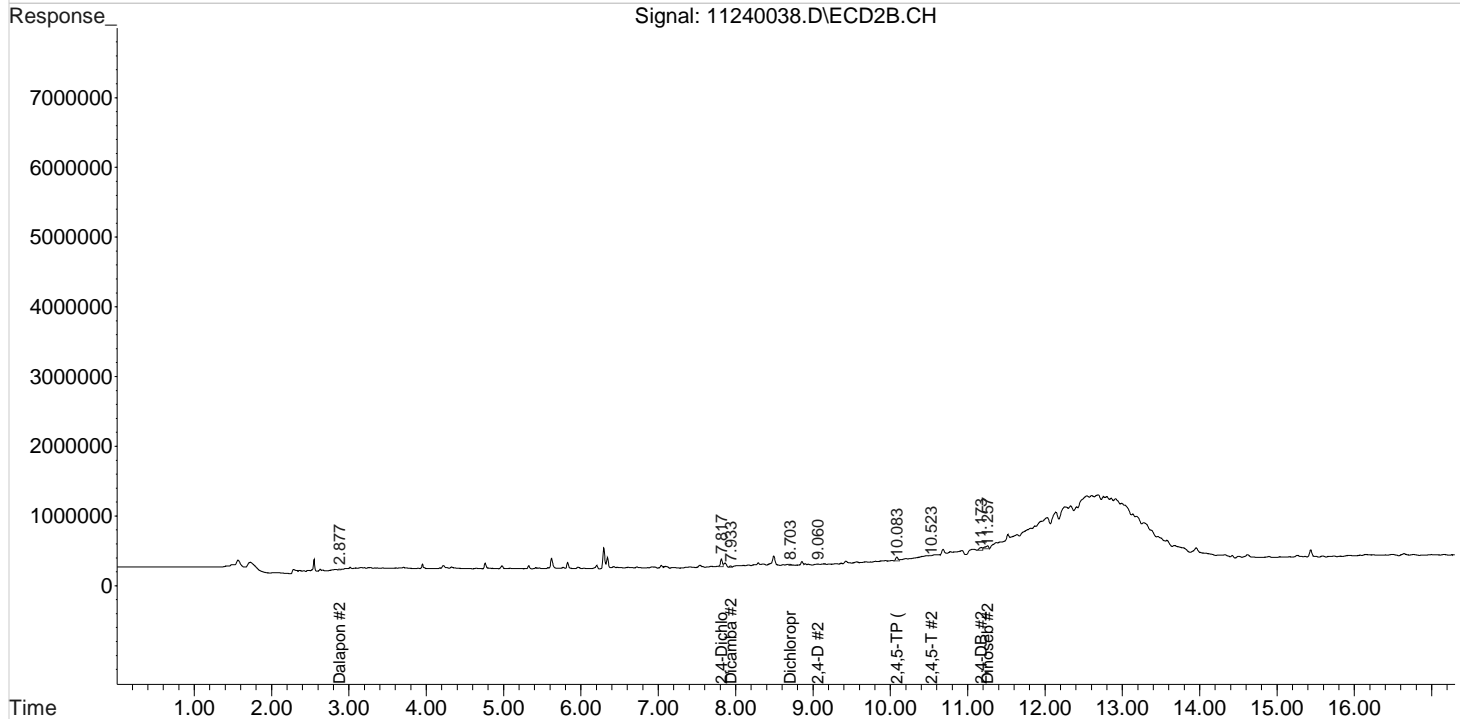
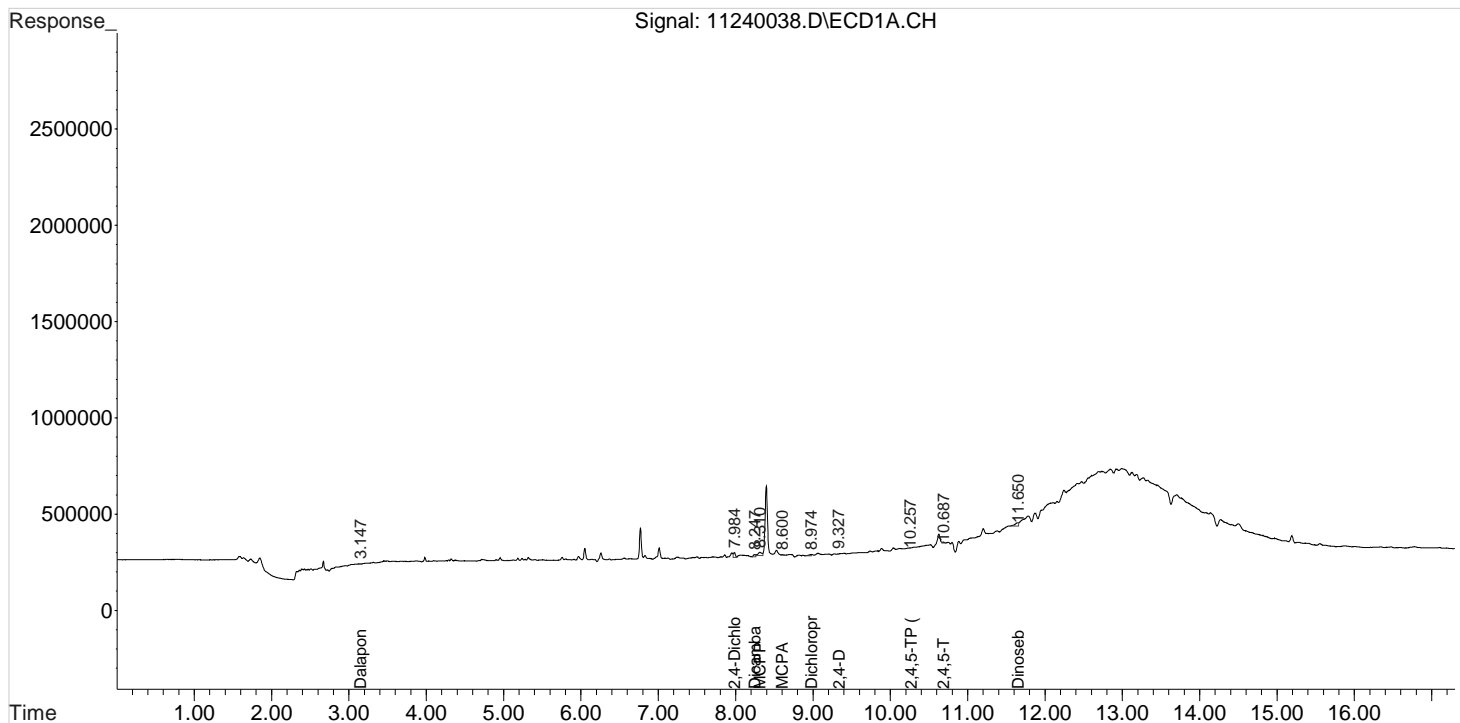
Data File : J:\gc24\data\112420\11240038.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 4:59 am
Sample : K2010308-024 20X
Misc :

Vial: 46
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:55:05 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240041.D\
Lab ID: K2010308-025
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 06:08:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240041.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 06:08:00	Vial: 39
Run Type: N/A	Dilution: 20
Lab ID: K2010308-025	Raw Units: ppb

Bottle ID: K2010308-025.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99 ^{+0.01}	7.82	46368	187828	2.548	4.441	51	89	51	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.09 ^{-0.04}	9150	113621	0.098	0.560	5.7U	33U	84 U	Y
2,4-D	9.34 ^{+0.03}	9.04 ^{-0.02}	1585	28606	0.075	0.559	4.4U	33U	270 U	Y

Prep Amount: 30.135 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.90

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240041.D Vial: 47
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:08 am Operator: UA
 Sample : K2010308-025 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:59:14 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.989	7.822	46368	187828	2.548	4.441m#
Target Compounds						
1) m Dalapon	3.129	2.878	2799	15326	0.115	0.317 #
3) m Dicamba	8.255	7.942	5618	12130	0.080	0.082
4) m MCPP	8.319	8.105	19133	43332	920.503	N.D. #
5) m MCPA	8.529	8.362	62595	134730	1069.040	N.D. #
6) m Dichloroprop	8.949	8.675f	1940	33489	0.104	0.803 #
7) m 2,4-D	9.342	9.038	1585	28606	0.075	0.559 #
8) m 2,4,5-TP ...	10.262	10.092	9150	113621	0.098	0.560 #
9) m 2,4,5-T	10.759f	10.592f	7291	89788	0.088	0.469 #
10) m 2,4-DB	11.212f	11.192	193632	60959	18.874	2.101 #
11) m Dinoseb	0.000	11.268	0	81279	N.D.	0.594 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

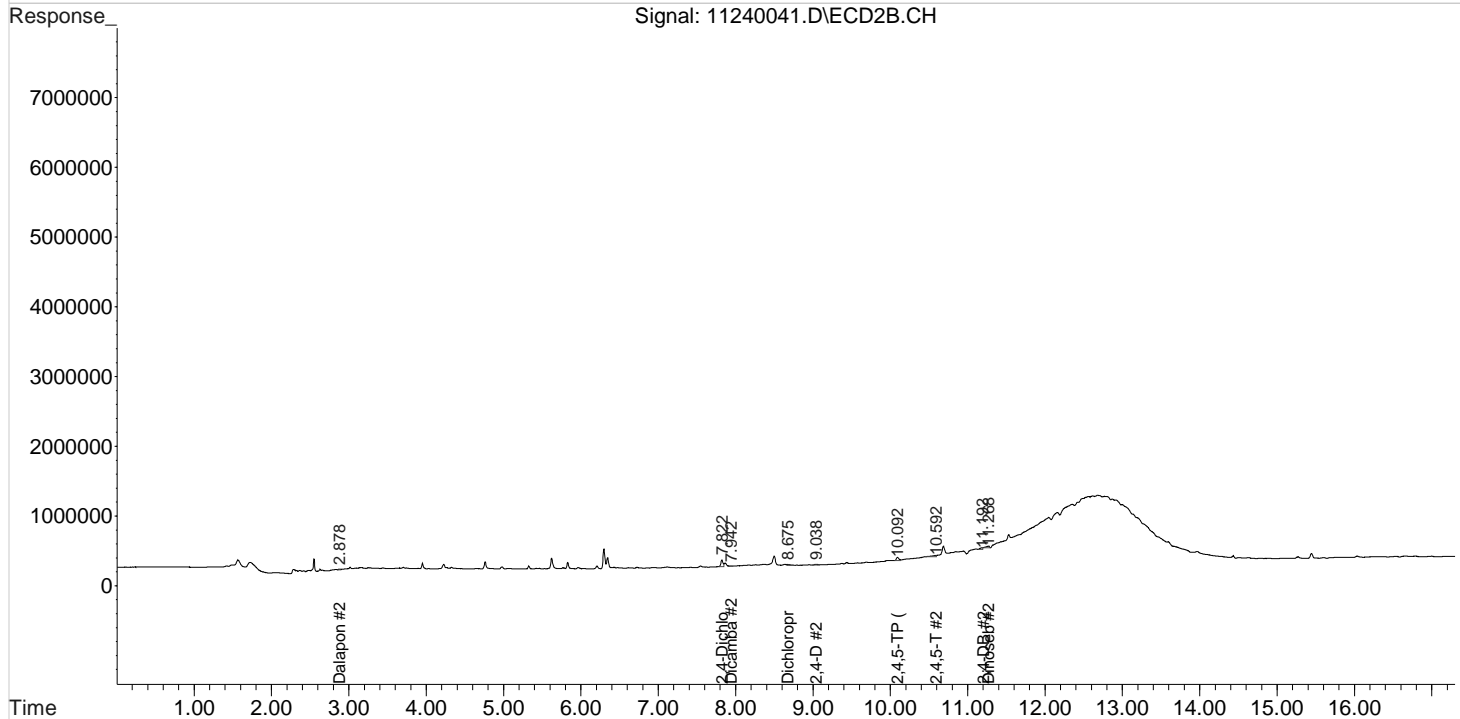
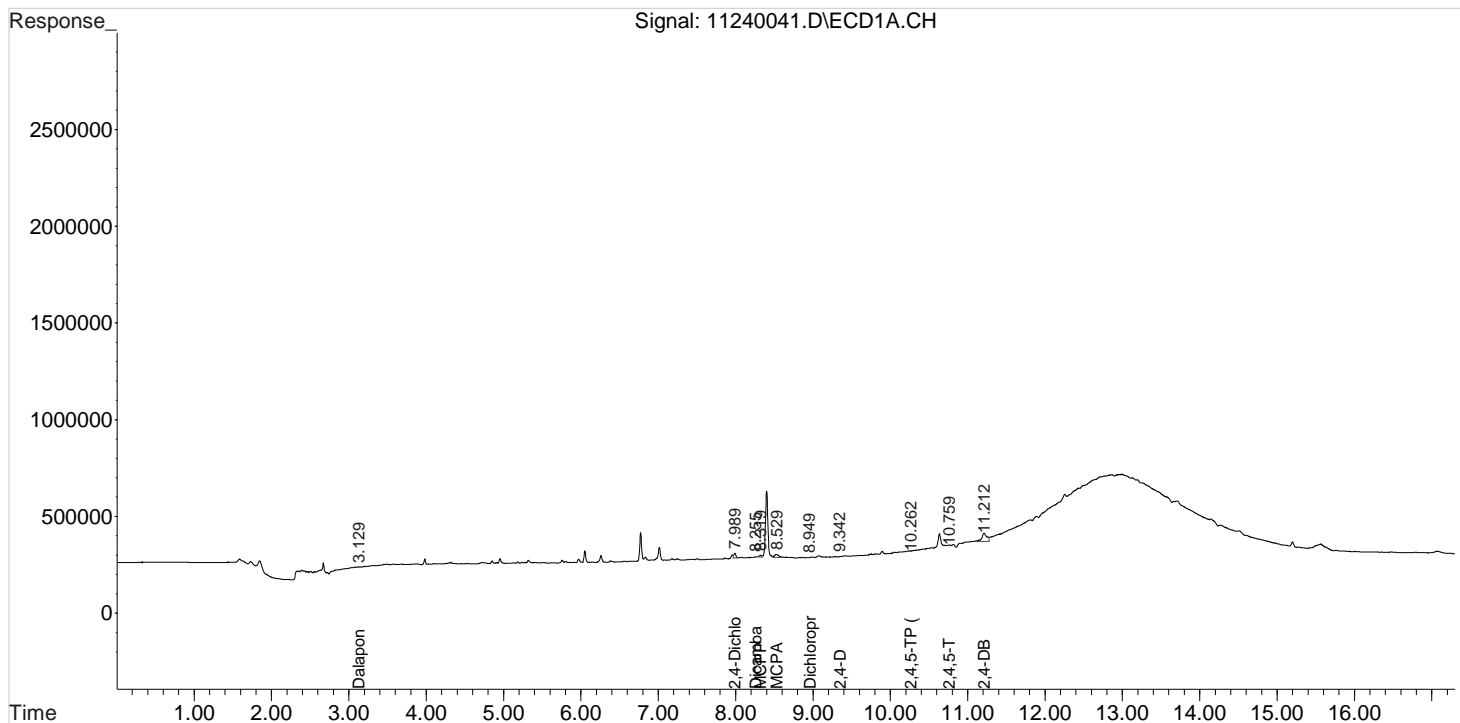
Data File : J:\gc24\data\112420\11240041.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 6:08 am
Sample : K2010308-025 20X
Misc :

Vial: 47
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:59:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

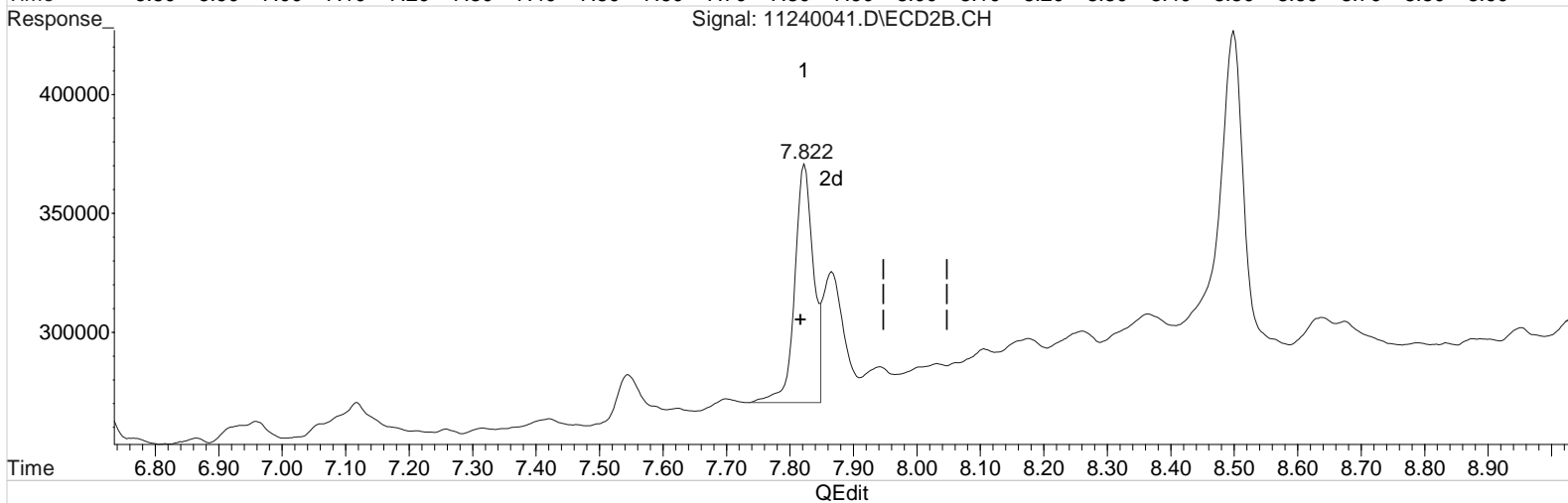
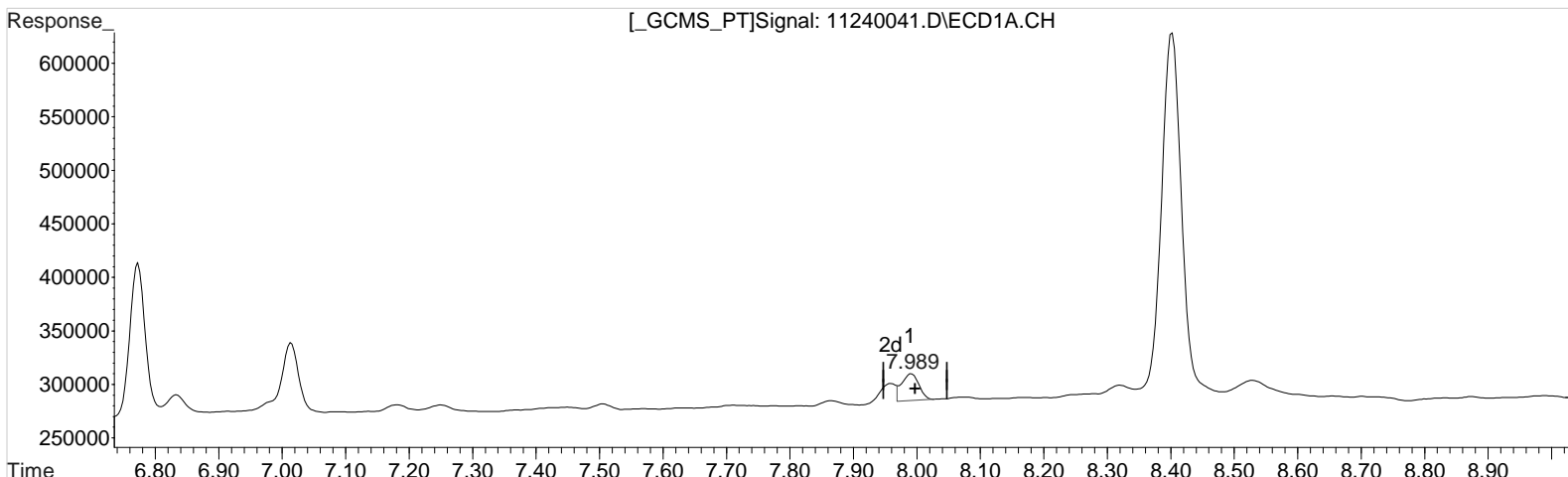
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240041.D Vial: 47
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:08 am Operator: UA
 Sample : K2010308-025 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:58:52 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.989min 2.548 ppb
 response 46368

Manual Integration:

Before

11/25/20

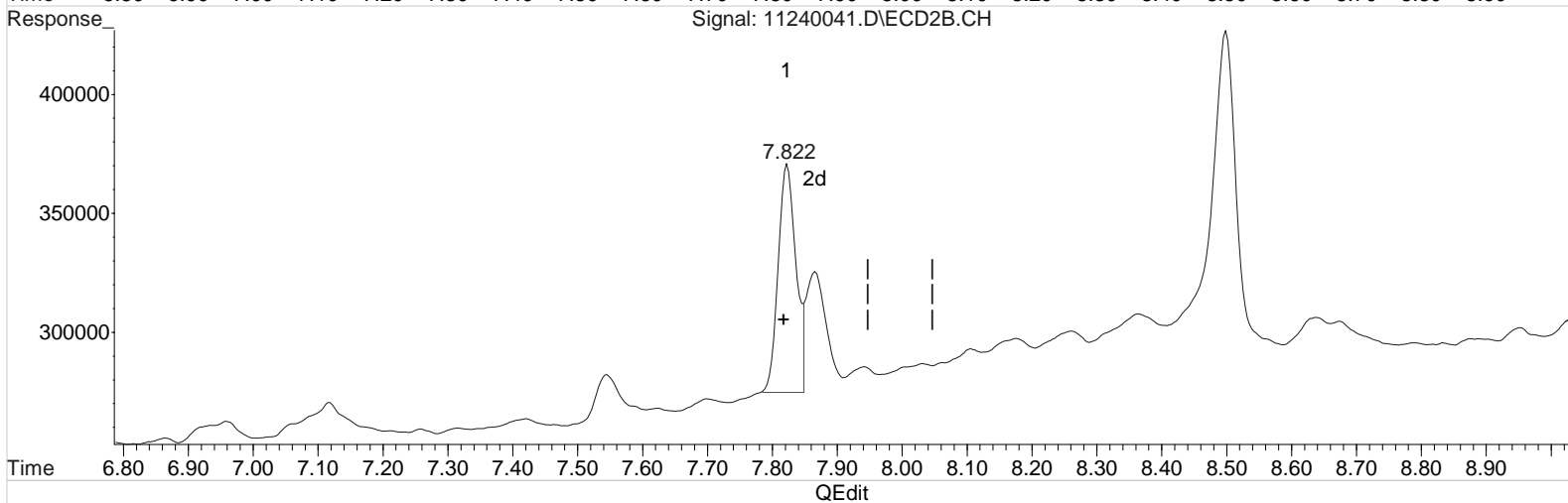
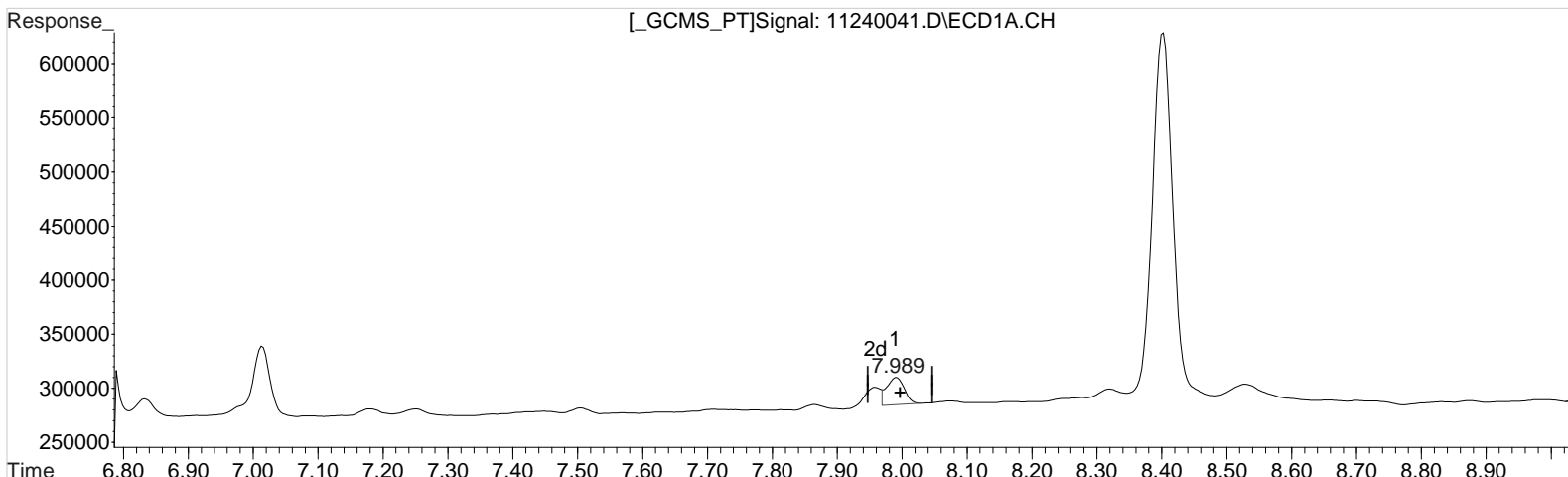
(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.822min 4.989 ppb
 response 211012

Data File : J:\gc24\data\112420\11240041.D Vial: 47
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 6:08 am Operator: UA
Sample : K2010308-025 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:58:52 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.989min 2.548 ppb
response 46368

Manual Integration:

After
Baseline/Shoulder
11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.822min 4.441 ppb m
response 187828

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240042.D\
Lab ID: K2010308-026
RunType: N/A
Matrix: Sediment

Date Acquired: 11/25/20 06:30:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Preparation Hold Time	X	
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Lab Control Sample Recovery	X	
Method Blank	X	
Method Blank Surrogates	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240042.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 06:30:00	Vial: 40
Run Type: N/A	Dilution: 20
Lab ID: K2010308-026	Raw Units: ppb

Bottle ID: K2010308-026.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: K2010308
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99 ^{+0.01}	7.82	50626	215571	2.782	5.096	56	102	56	26 - 127	P Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.09 ^{-0.04}	26688	147695	0.285	0.728	17U	43U	86 U	Y
2,4-D	9.33 ^{+0.02}	9.06	1422	7193	0.067	0.140	4.0U	8.3U	280 U	Y

Prep Amount: 30.064 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240042.D Vial: 48
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:30 am Operator: UA
 Sample : K2010308-026 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:59:53 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.987	7.816	50626	215571	2.782	5.096m#
Target Compounds						
1) m Dalapon	3.137	2.880	37691	45308	1.554	0.938 #
3) m Dicamba	8.260	7.936	38874	34207	0.557	0.231 #
4) m MCPP	8.313	8.116	82442	7788	2282.860	N.D. #
5) m MCPA	8.600	8.360	17286	146962	295.222	N.D. #
6) m Dichloroprop	8.980	8.783	36227	2305	1.943	0.055 #
7) m 2,4-D	9.330	9.063	1422	7193	0.067	0.140 #
8) m 2,4,5-TP ...	10.253	10.090	26688	147695	0.285	0.728 #
9) m 2,4,5-T	10.690	10.503	4155	289780	0.050	1.514 #
10) m 2,4-DB	11.300	11.190	32786	546121	3.196	18.821 #
11) m Dinoseb	11.657	11.266	601839	870831	9.728	6.368 #

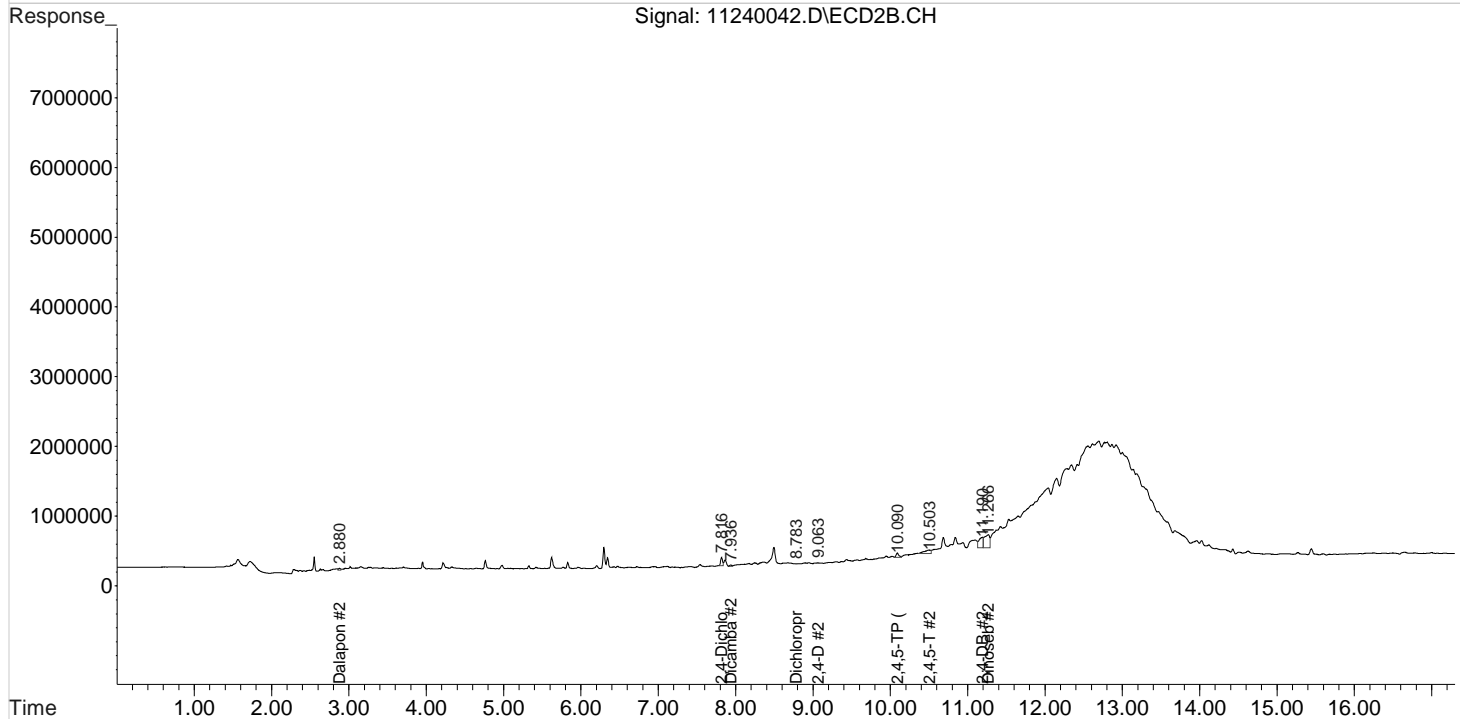
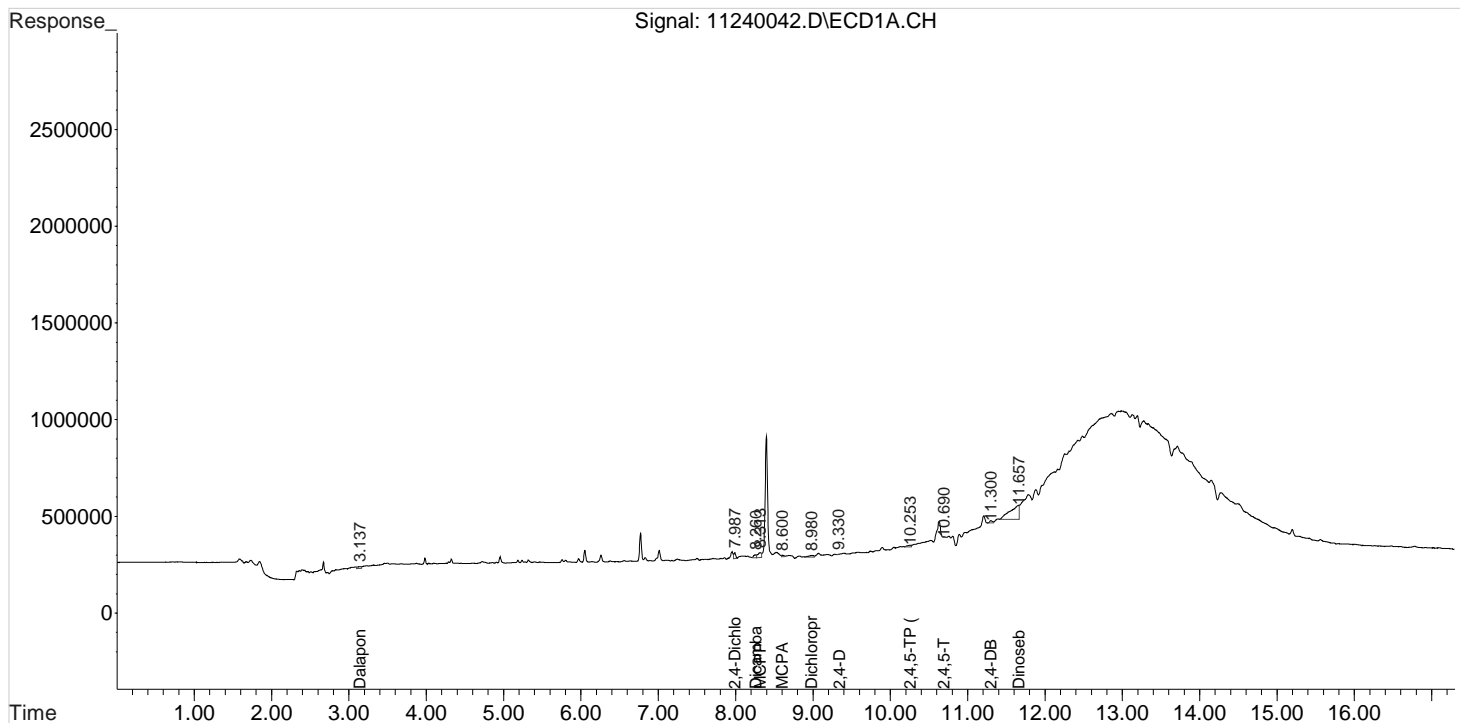
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112420\11240042.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 6:30 am
Sample : K2010308-026 20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:59:53 2020
Quant Results File: 102120_8151.RES

Vial: 48
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

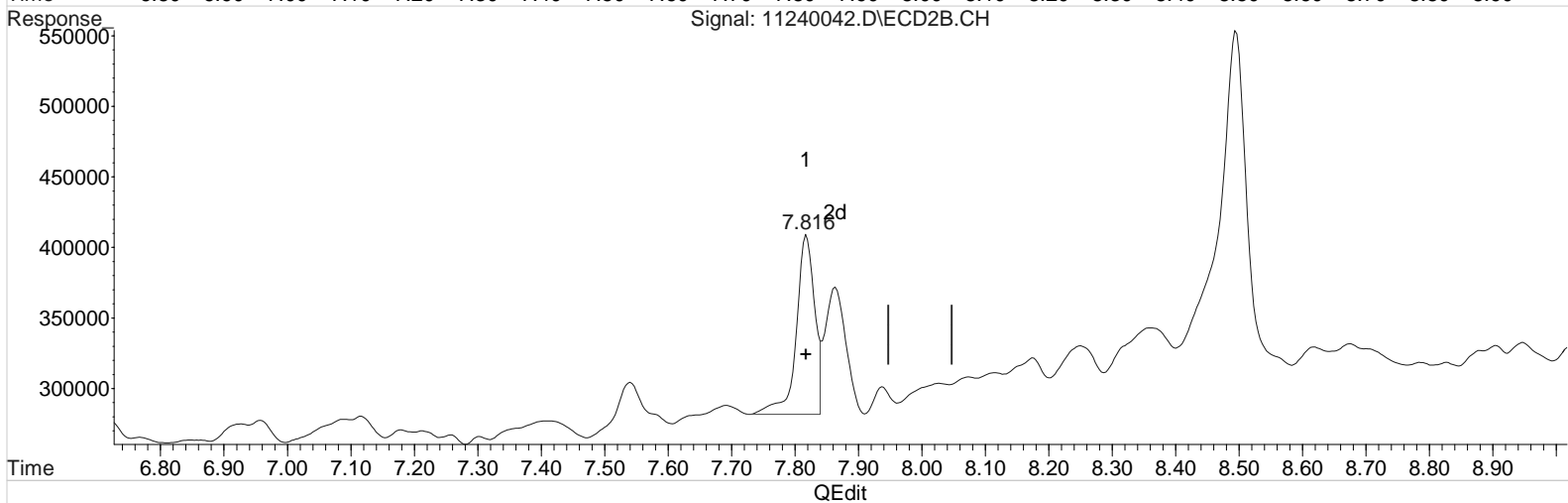
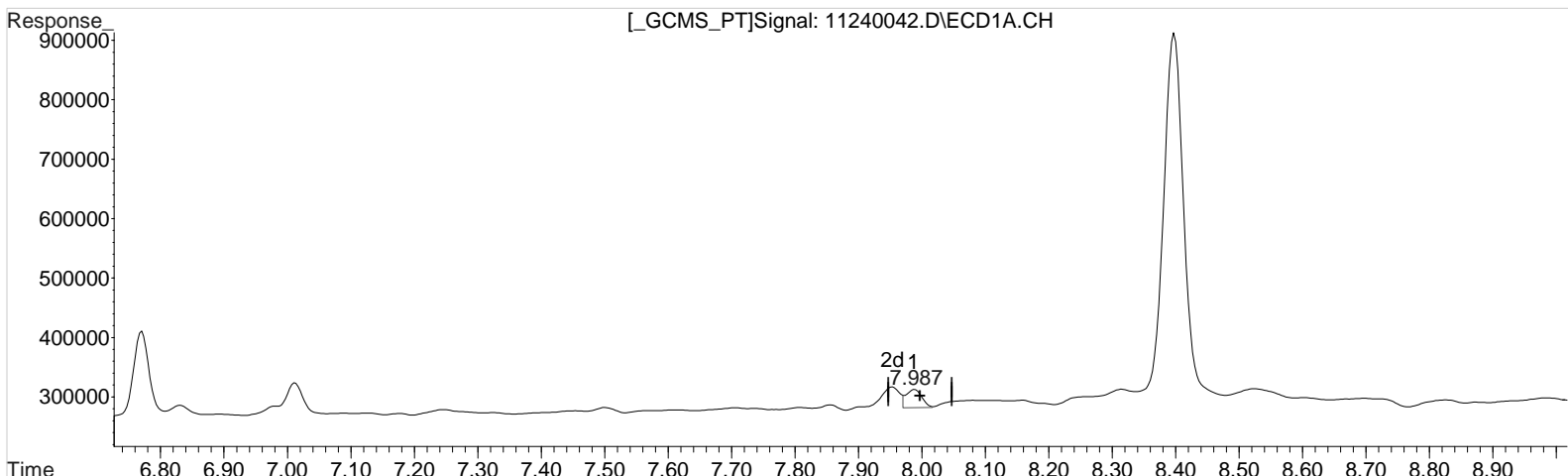
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240042.D Vial: 48
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:30 am Operator: UA
 Sample : K2010308-026 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:59:32 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.987min 2.782 ppb
 response 50626

Manual Integration:

Before

11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

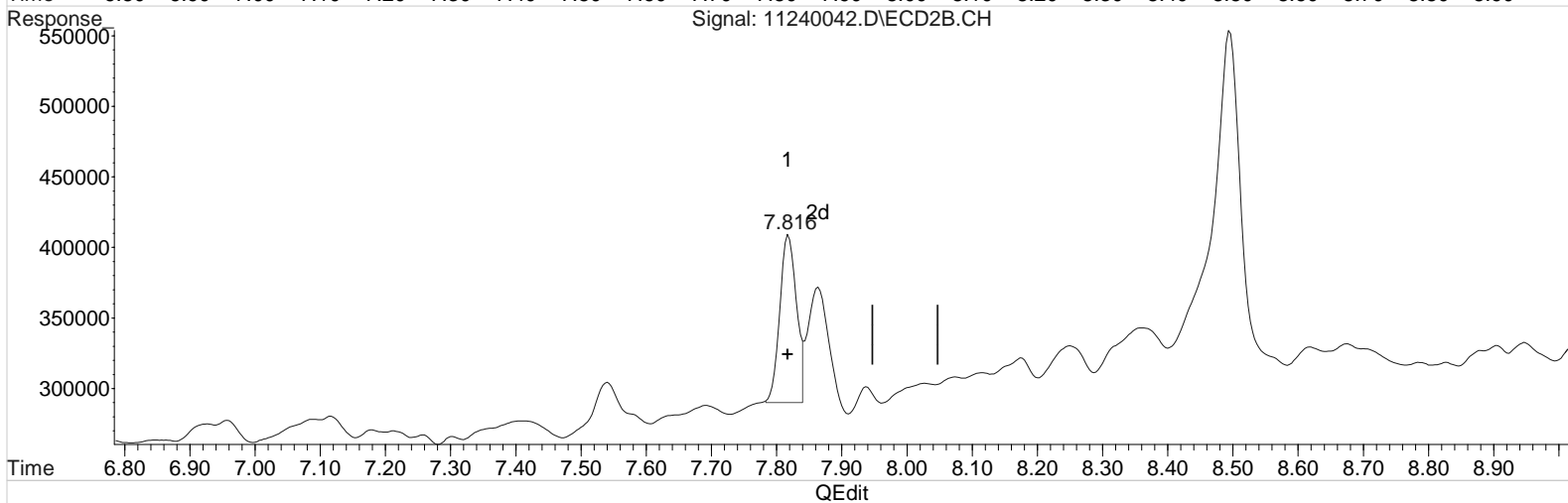
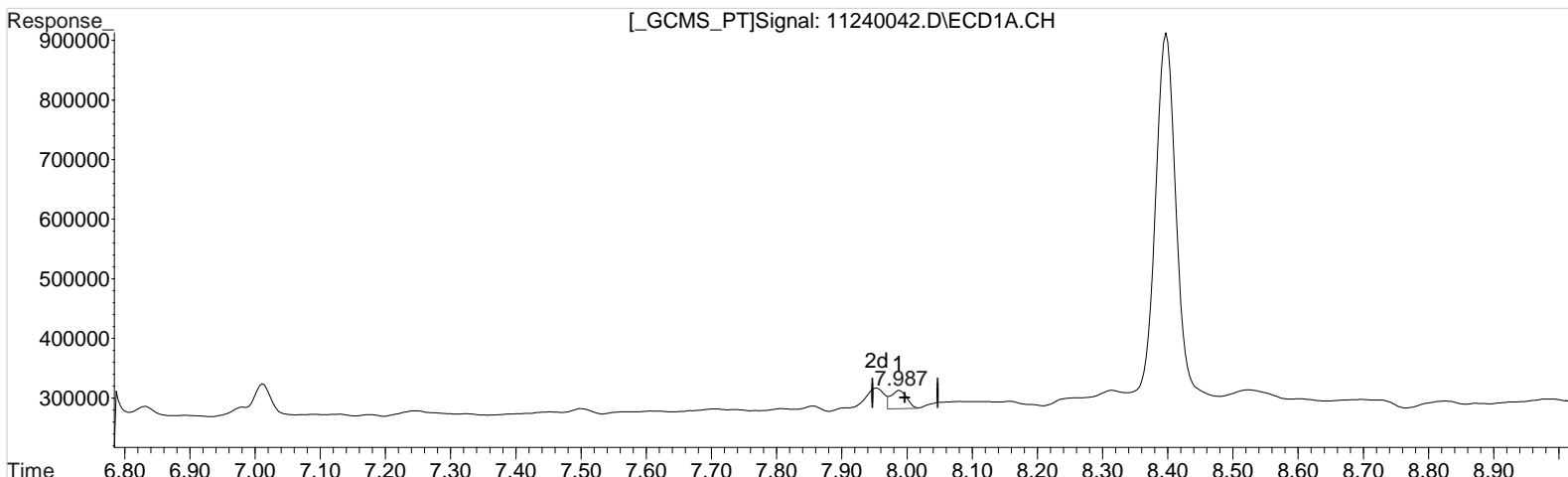
7.816min 6.173 ppb
 response 261095

Data File : J:\gc24\data\112420\11240042.D
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:30 am
 Sample : K2010308-026 20X
 Misc :
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:59:32 2020
 Quant Results File: 102120_8151.RES

Vial: 48
 Operator: UA
 Inst : HP G1530A
 Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2
 Signal #1 Info : 0.25 mm
 Signal #2 Phase: ZB-XLB-HT
 Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.987min 2.782 ppb
 response 50626

Manual Integration:

After
 Baseline/Shoulder
 11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.816min 5.096 ppb m
 response 215571

(+) = Expected Retention Time

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240007.D\
Lab ID: KQ2017638-04
RunType: MB
Matrix: Sediment

Date Acquired: 11/24/20 17:11:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240007.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 17:11:00	Vial: 34
Run Type: MB	Dilution: 1
Lab ID: KQ2017638-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: KQ2017638
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	1105645	3630448	60.761	85.831	61	86	61	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	0.00	17207	0	0.184	0.000	0.30U	0U	2.4 U	Y
2,4-D	9.28 ^{-0.04}	9.05 ^{-0.02}	9681	130435	0.456	2.548	0.75U	4.2U	7.7 U	Y

Prep Amount: 30.3950 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Data File : J:\gc24\data\112420\11240007.D Vial: 13
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 5:11 pm Operator: UA
 Sample : KQ2010738-04MB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:39:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.823	1105645	3630448	60.761	85.831 #
Target Compounds						
1) m Dalapon	3.137	2.873	4730	31991	0.195	0.662 #
3) m Dicamba	8.213	7.923	10827	42305	0.155	0.285 #
4) m MCPP	8.323	8.110	11868	15272	764.166	N.D. #
5) m MCPA	8.597	8.360	10559	51140	180.334	N.D. #
6) m Dichloroprop	8.967	8.766	27017	4787	1.449	0.115 #
7) m 2,4-D	9.280	9.050	9681	130435	0.456	2.548 #
8) m 2,4,5-TP ...	10.263	0.000	17207	0	0.184	N.D. d#
9) m 2,4,5-T	10.703	10.546	5061	10464	0.061	0.055
10) m 2,4-DB	11.260	11.186	54121	24283	5.275	0.837 #
11) m Dinoseb	11.657	11.250f	46073	136130	0.745	0.995 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

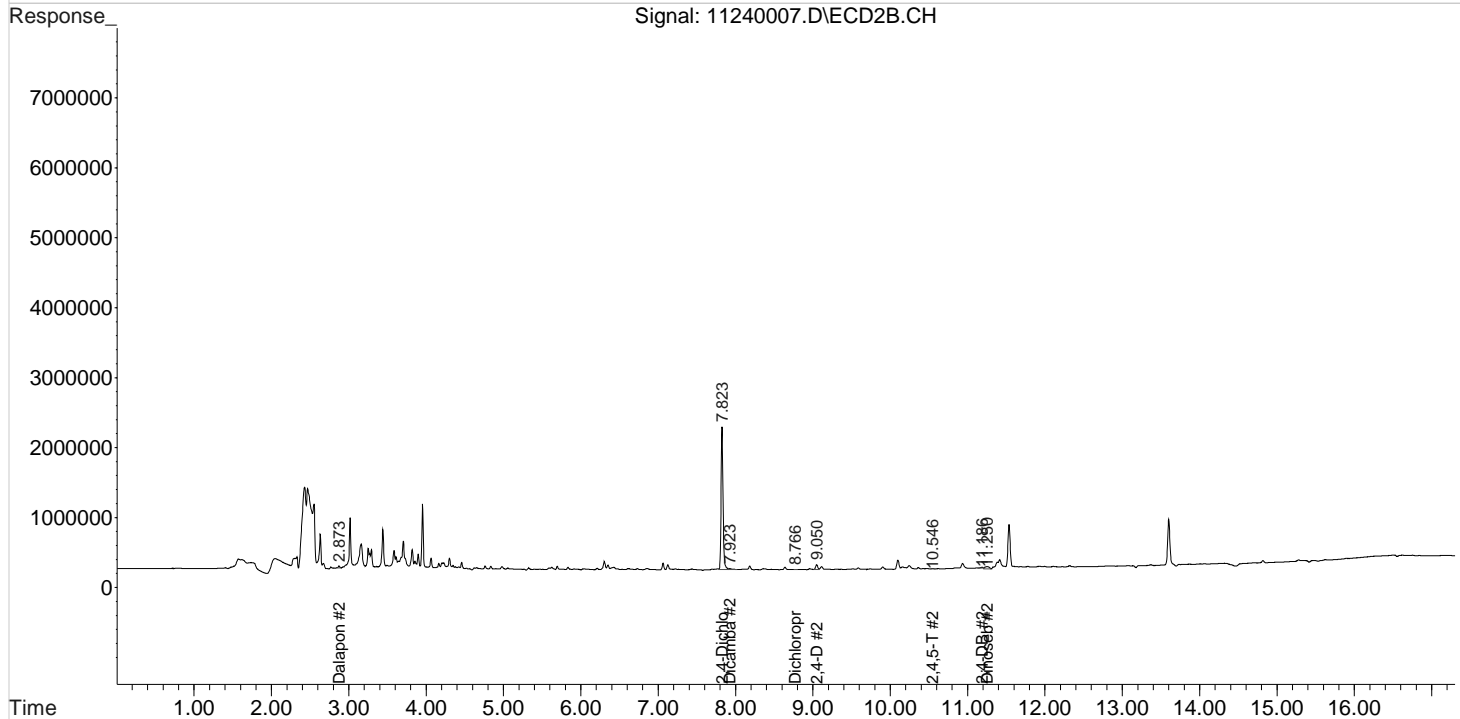
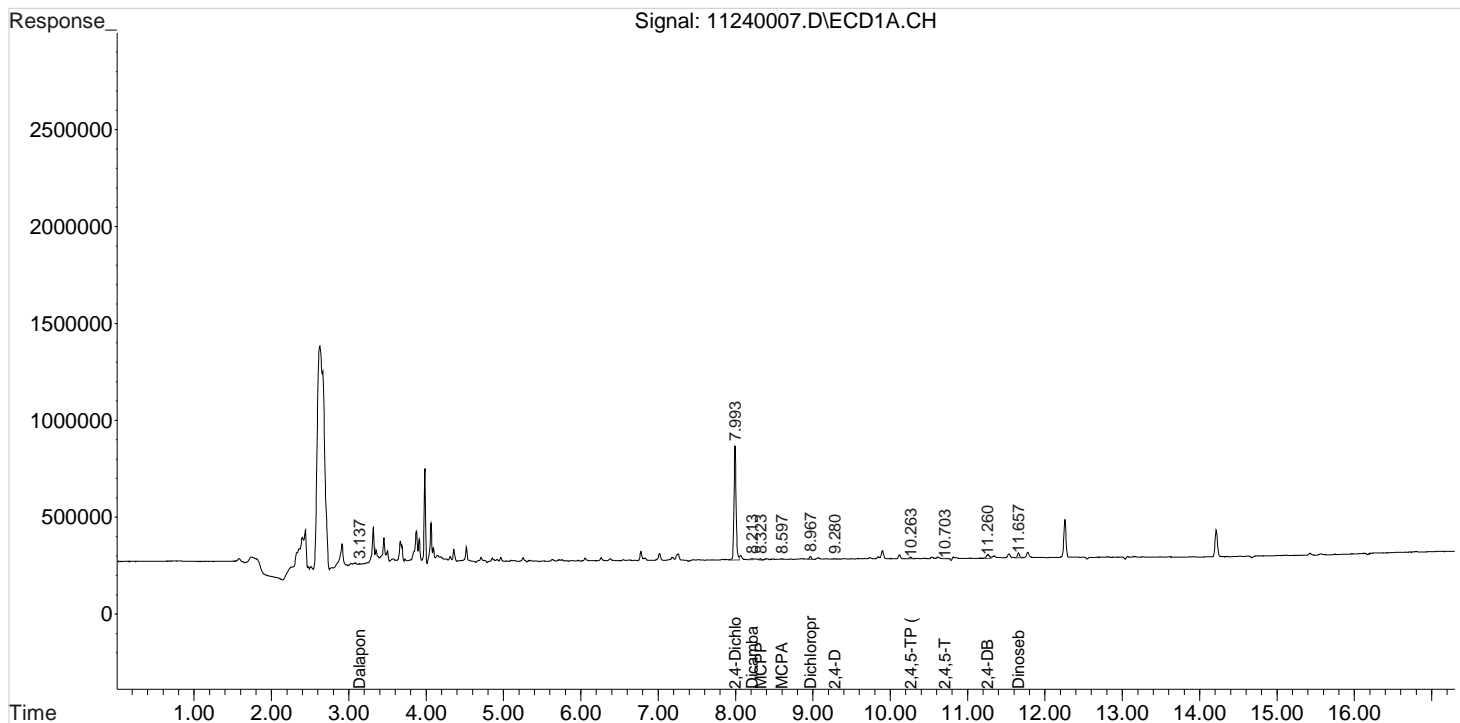
Data File : J:\gc24\data\112420\11240007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 5:11 pm
Sample : KQ2010738-04MB
Misc :

Vial: 13
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:39:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240005.D\
Lab ID: KQ2017639-04
RunType: MB
Matrix: Sediment

Date Acquired: 11/24/20 16:25:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - ZB-XLB-HT	Dicamba	7.82			NR
	DCAA	7.82			NR

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240005.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 16:25:00	Vial: 44
Run Type: MB	Dilution: 1
Lab ID: KQ2017639-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: KQ2017639
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82 c	1004837	3196392	55.221	75.569	55	76	55	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	0.00	13821	0	0.148	0.000	0.24U	0U	2.4 U	Y
2,4-D	9.29 ^{-0.03}	9.05 ^{-0.02}	9733	255965	0.458	4.999	0.76U	8.3J	7.7 U	Y

Prep Amount: 30.2870 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240005.D Vial: 3
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 4:25 pm Operator: UA
 Sample : KQ2010739-04MB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:38:01 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.994	7.823	1004837	3196392	55.221	75.569 #
Target Compounds						
1) m Dalapon	3.137	2.873	92869	328859	3.828	6.807 #
3) m Dicamba	8.204	7.823f	24000	3196392	0.344	21.566 #
4) m MCPP	8.320	8.103	10227	23001	728.853	N.D. #
5) m MCPA	8.594	8.357	14654	51369	250.271	N.D. #
6) m Dichloroprop	8.970	8.777	27326	6647	1.465	0.159 #
7) m 2,4-D	9.287	9.050	9733	255965	0.458	4.999 #
8) m 2,4,5-TP ...	10.264	0.000	13821	0	0.148	N.D. d#
9) m 2,4,5-T	10.690	10.540	5561	6317	0.067	0.033 #
10) m 2,4-DB	11.260	11.183	70735	16769	6.895	0.578 #
11) m Dinoseb	11.657	11.283	41765	85733	0.675	0.627

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

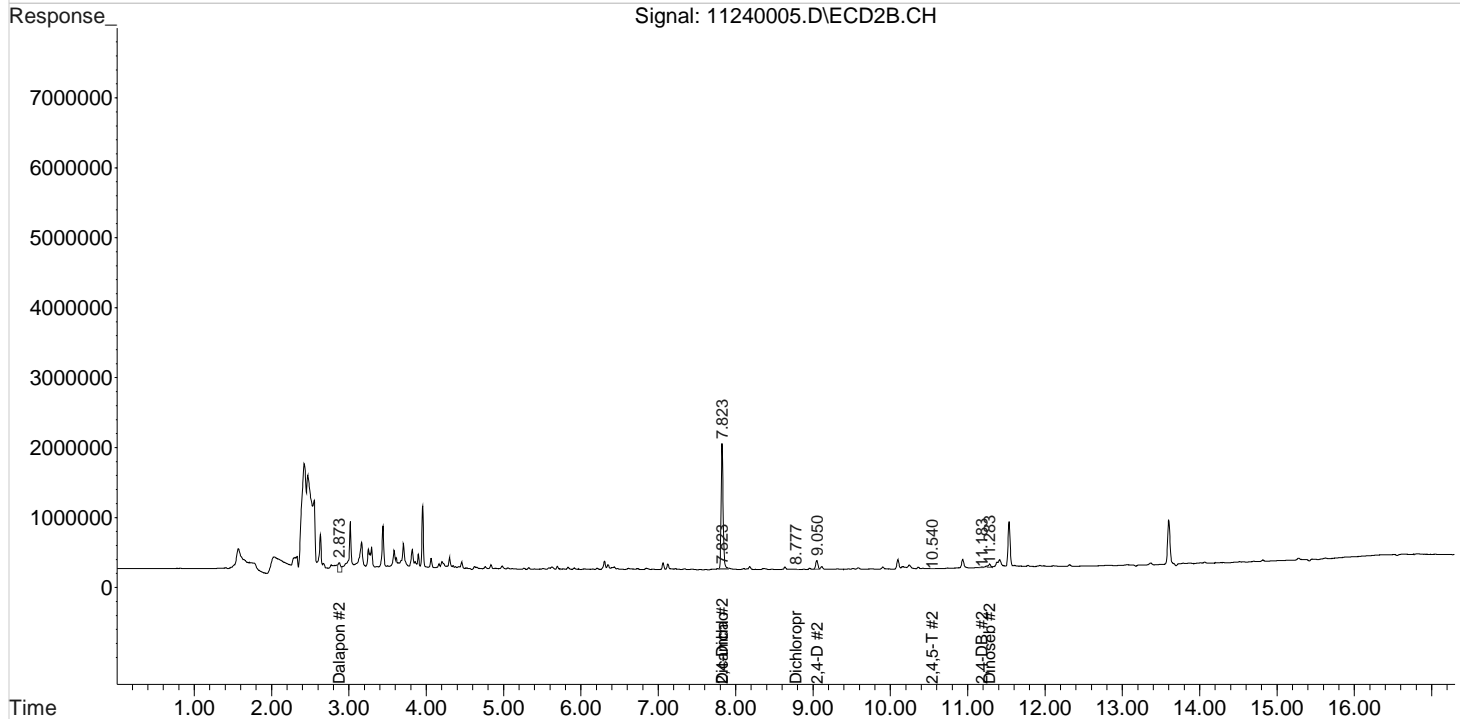
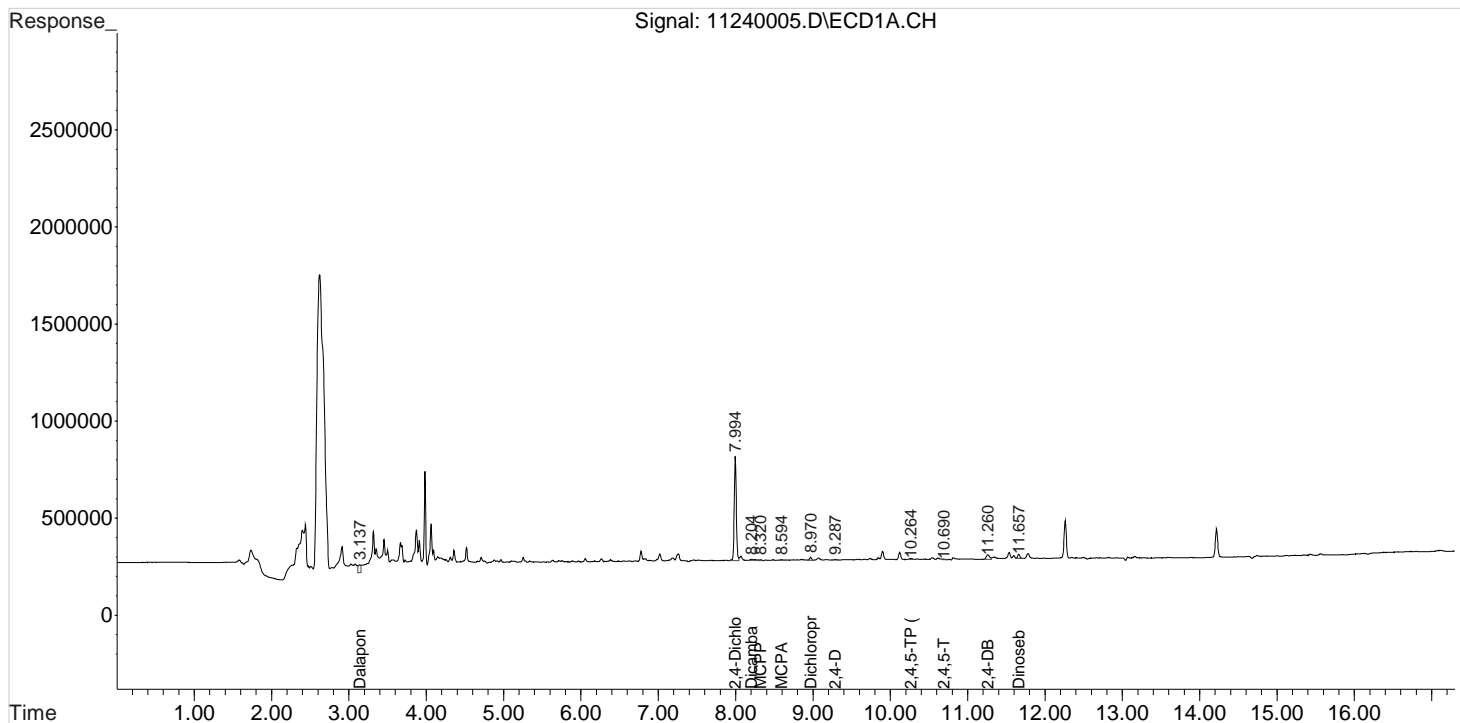
Data File : J:\gc24\data\112420\11240005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 4:25 pm
Sample : KQ2010739-04MB
Misc :

Vial: 3
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:38:01 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240008.D\
Lab ID: KQ2017638-03
RunType: LCS
Matrix: Sediment

Date Acquired: 11/24/20 17:34:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240008.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 17:34:00	Vial: 33
Run Type: LCS	Dilution: 1
Lab ID: KQ2017638-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: KQ2017638
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98 ^{-0.01}	7.81 ^{-0.01}	1094178	3531404	60.131	83.489	60	83	60	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25 ^{-0.01}	10.13 ^{-0.01}	5185030	14790751	55.348	72.862	92.2	121	92.2	Y
2,4-D	9.30 ^{-0.02}	9.05 ^{-0.02}	1186654	3819572	55.868	74.603	93.1	124	93.1	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240008.D Vial: 14
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 5:34 pm Operator: UA
 Sample : KQ2010738-03LCS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:58:49 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.981	7.811	1094178	3531404	60.131	83.489 #
Target Compounds						
1) m Dalapon	3.121	2.874	1107156	2564522	45.640	53.082
3) m Dicamba	8.201	7.914	4057191	10395129	58.126	70.136
4) m MCPP	8.285	8.104	273424	1419796	6392.635	8394.002 #
5) m MCPA	8.551	8.351	367817	1906517	6281.830	8197.593 #
6) m Dichloroprop	8.951	8.748	1039937	2878798	55.767	69.011
7) m 2,4-D	9.305	9.054	1186654	3819572	55.868	74.603 #
8) m 2,4,5-TP ...	10.248	10.128	5185030	14790751	55.348	72.862 #
9) m 2,4,5-T	10.691	10.528	4176313	11711767	50.616	61.201
10) m 2,4-DB	11.268	11.164	877930	1612426	85.573	55.571 #
11) m Dinoseb	11.668	11.314	2758408	7165554	44.587	52.396

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

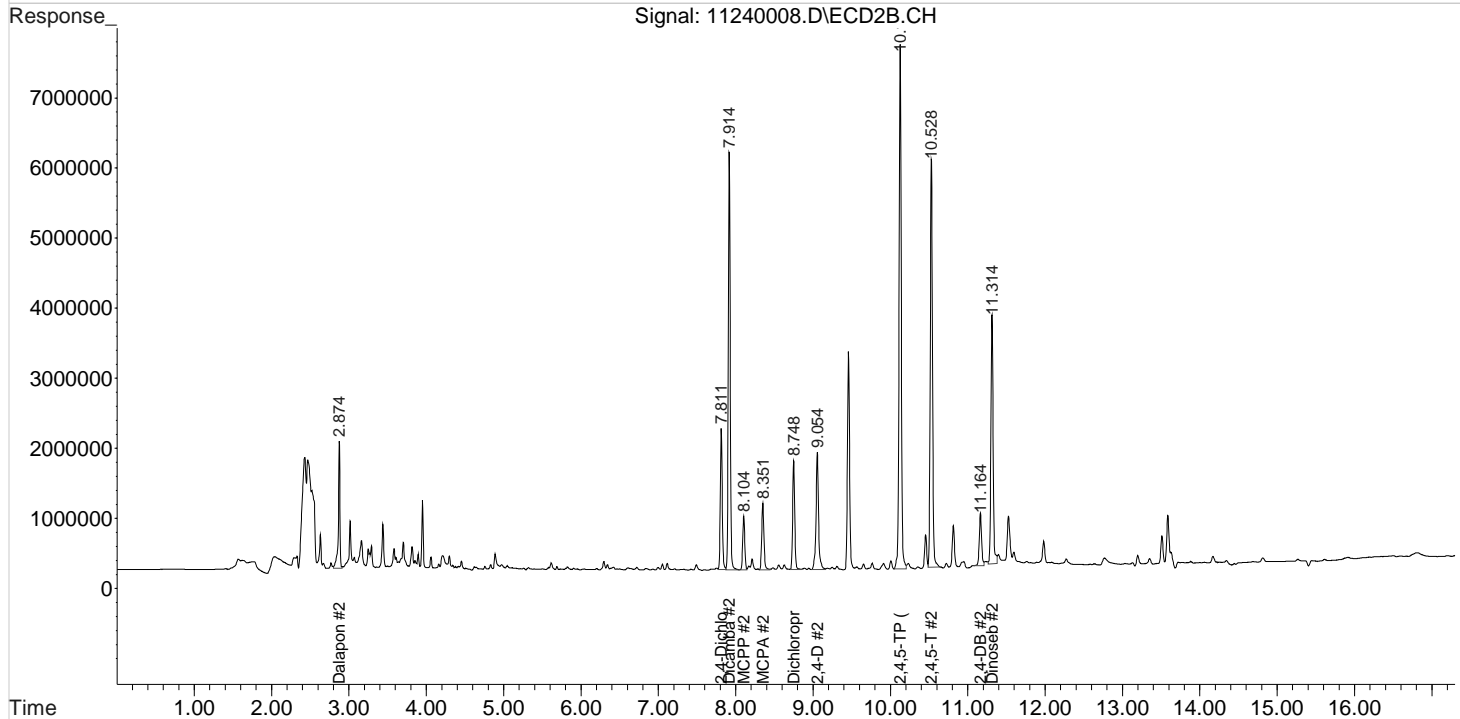
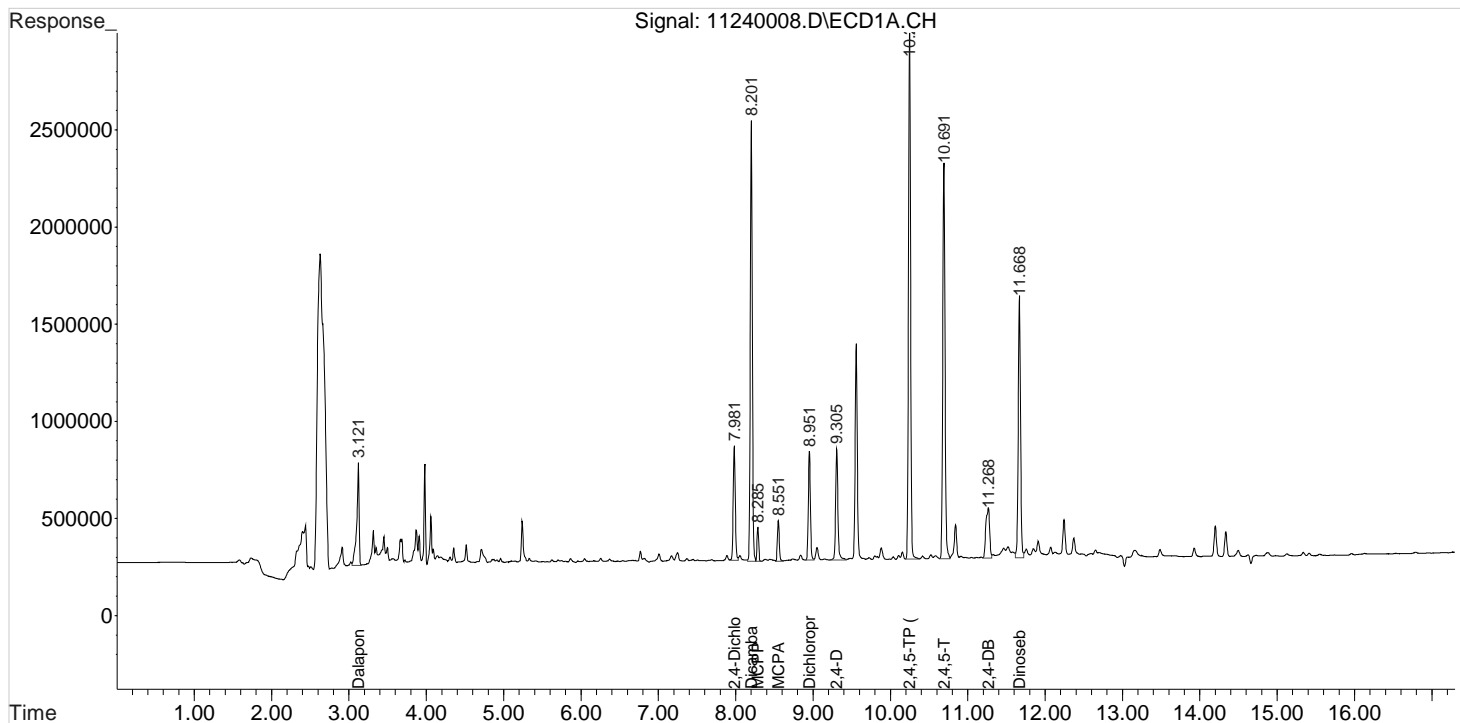
Data File : J:\gc24\data\112420\11240008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 5:34 pm
Sample : KQ2010738-03LCS
Misc :

Vial: 14
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:58:49 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240006.D\
Lab ID: KQ2017639-03
RunType: LCS
Matrix: Sediment

Date Acquired: 11/24/20 16:48:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240006.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 16:48:00	Vial: 43
Run Type: LCS	Dilution: 1
Lab ID: KQ2017639-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: KQ2017639
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	954327	3045371	52.445	71.998	52	72	52	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.14	4339268	12272781	46.320	60.458	77.2	101	77.2	Y
2,4-D	9.32	9.06 ^{-0.01}	935640	2999395	44.051	58.584	RO 73.4	97.6	97.6	Y

reported passing col

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240006.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 4:48 pm Operator: UA
 Sample : KQ2010739-03LCS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:38:43 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.992	7.822	954327	3045371	52.445	71.998 #
Target Compounds						
1) m Dalapon	3.125	2.878	973755	2181238	40.141	45.148
3) m Dicamba	8.212	7.928	3408209	8666084	48.828	58.471
4) m MCPP	8.299	8.112	227424	1268090	5402.753	7345.504 #
5) m MCPA	8.562	8.358	309706	1675190	5289.371	6974.968 #
6) m Dichloroprop	8.965	8.762	887436	2471862	47.589	59.256
7) m 2,4-D	9.319	9.065	935640	2999395	44.051m	58.584 #
8) m 2,4,5-TP ...	10.259	10.138	4339268	12272781	46.320m	60.458m#
9) m 2,4,5-T	10.702	10.542	3408887	9586975	41.315	50.097
10) m 2,4-DB	11.279	11.175	441406	1320045	43.025	45.494
11) m Dinoseb	11.682	11.325	2241700	6086749	36.235	44.508

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

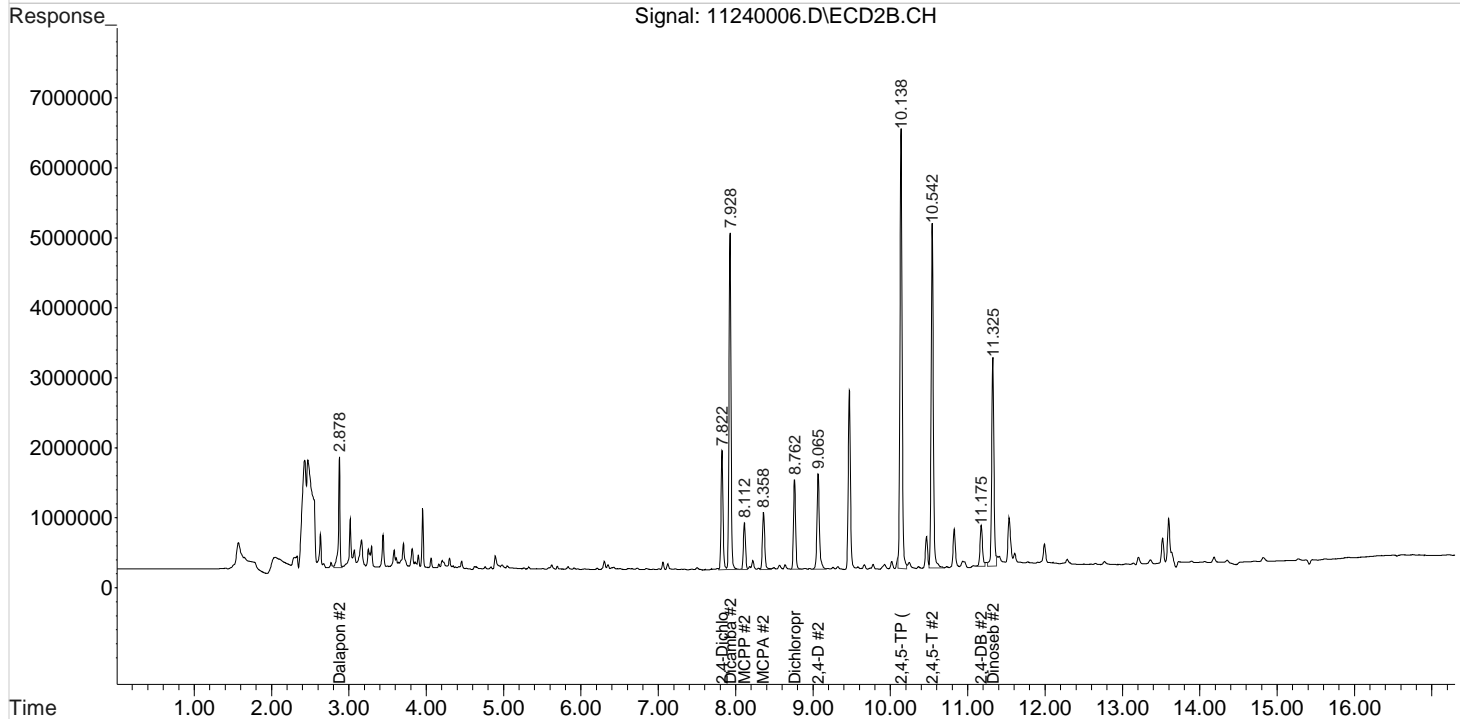
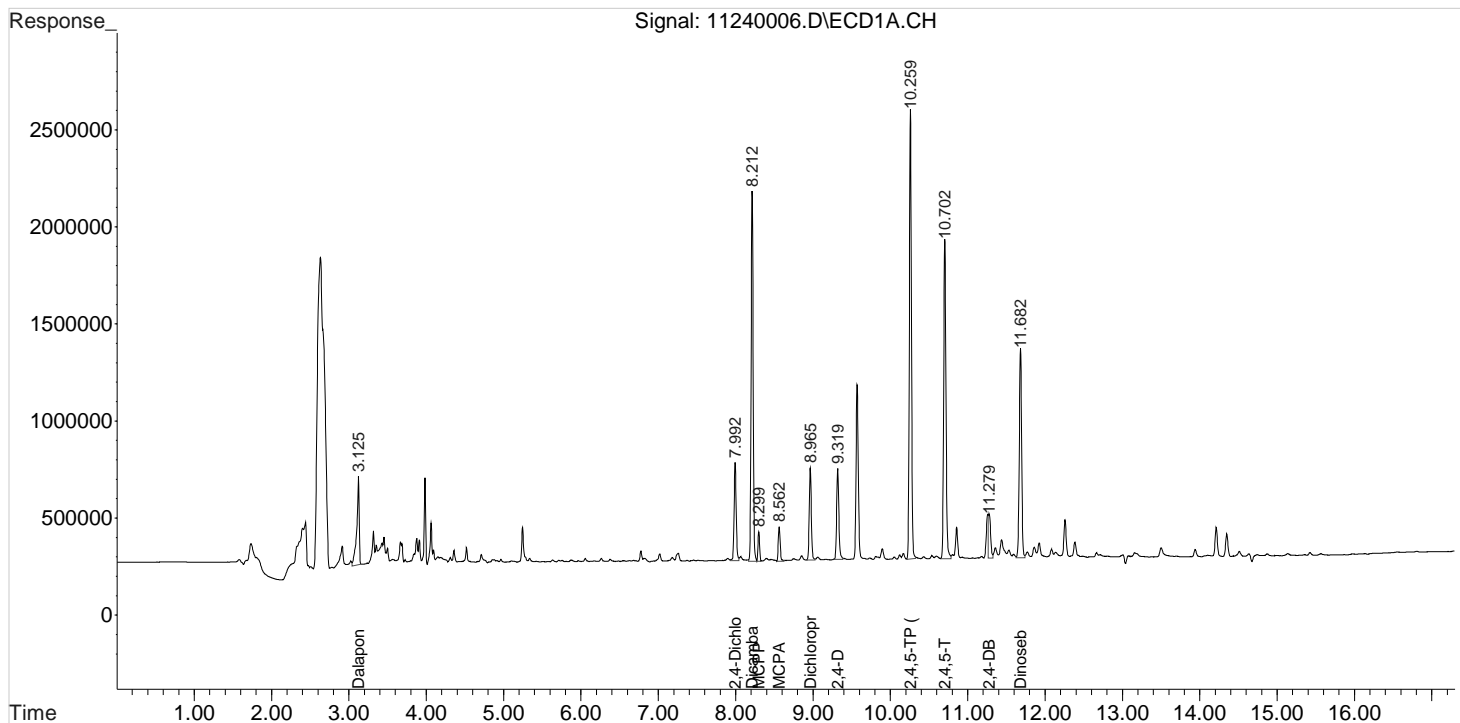
Data File : J:\gc24\data\112420\11240006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 4:48 pm
Sample : KQ2010739-03LCS
Misc :

Vial: 4
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:38:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

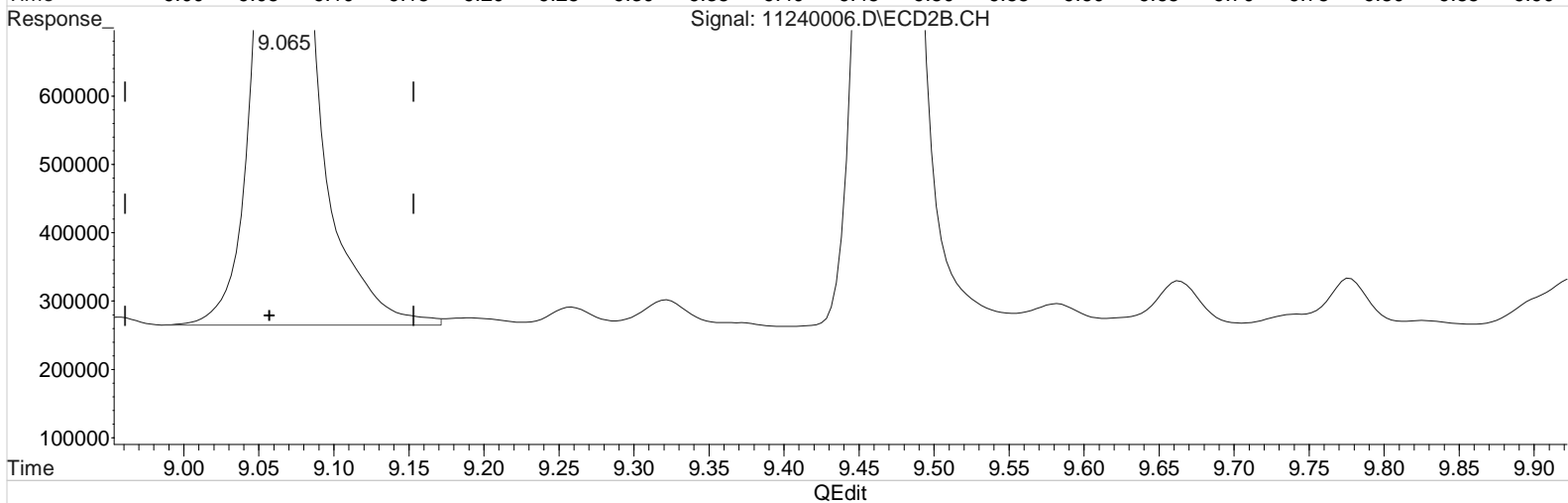
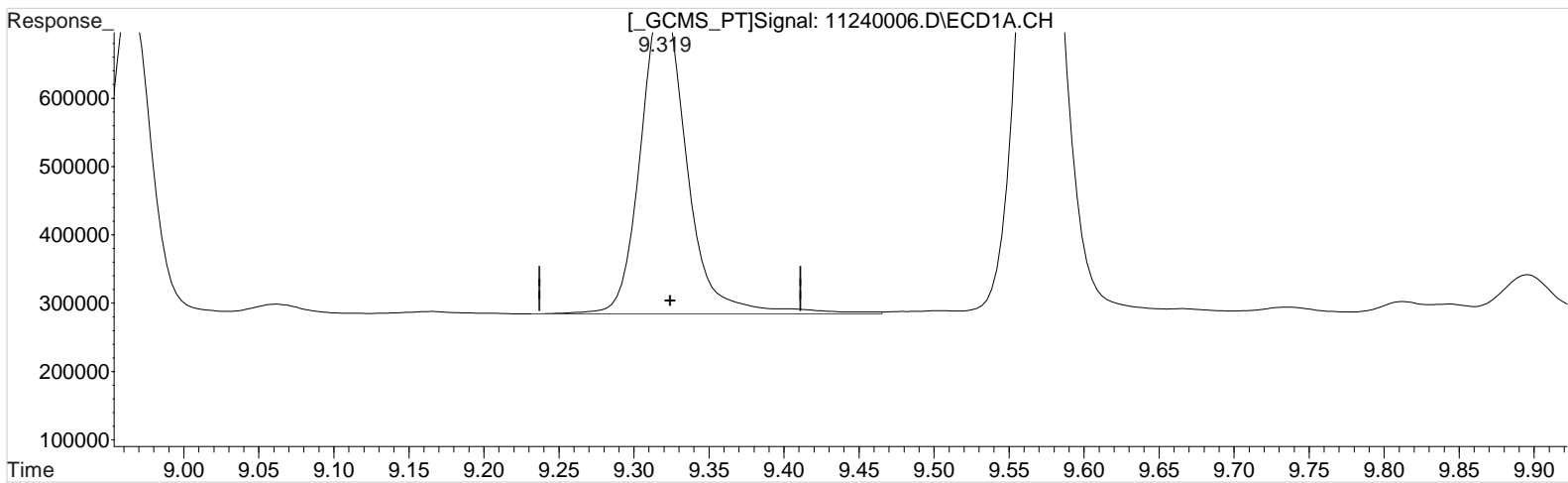
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240006.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 4:48 pm Operator: UA
Sample : KQ2010739-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:58:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.319min 46.212 ppb
response 981555

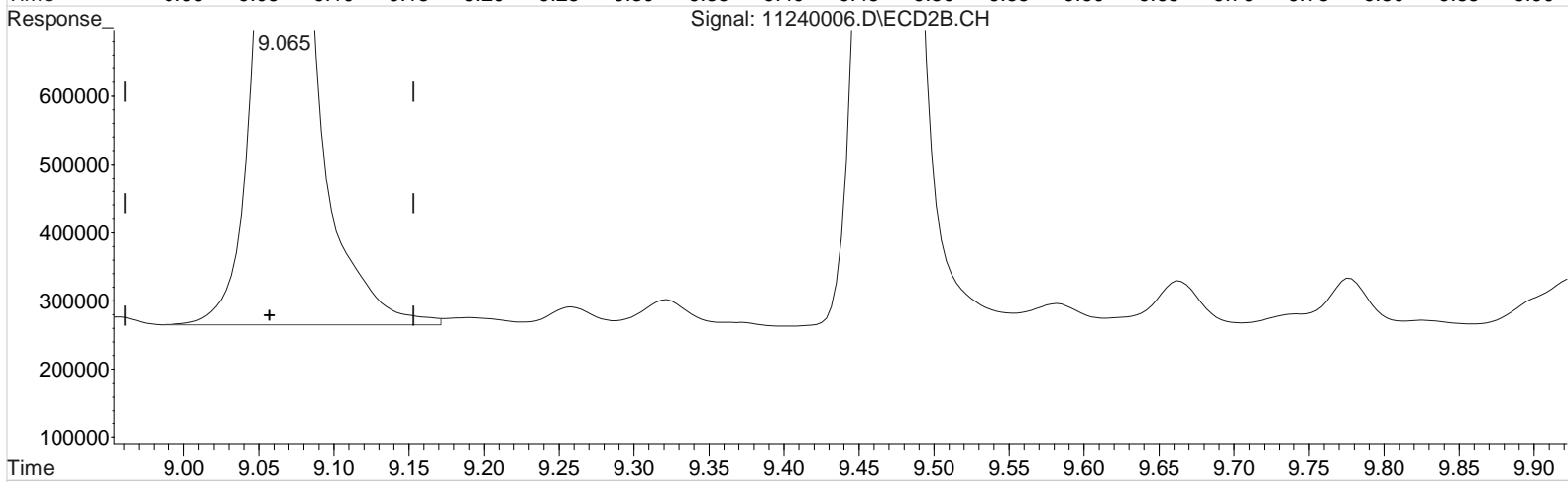
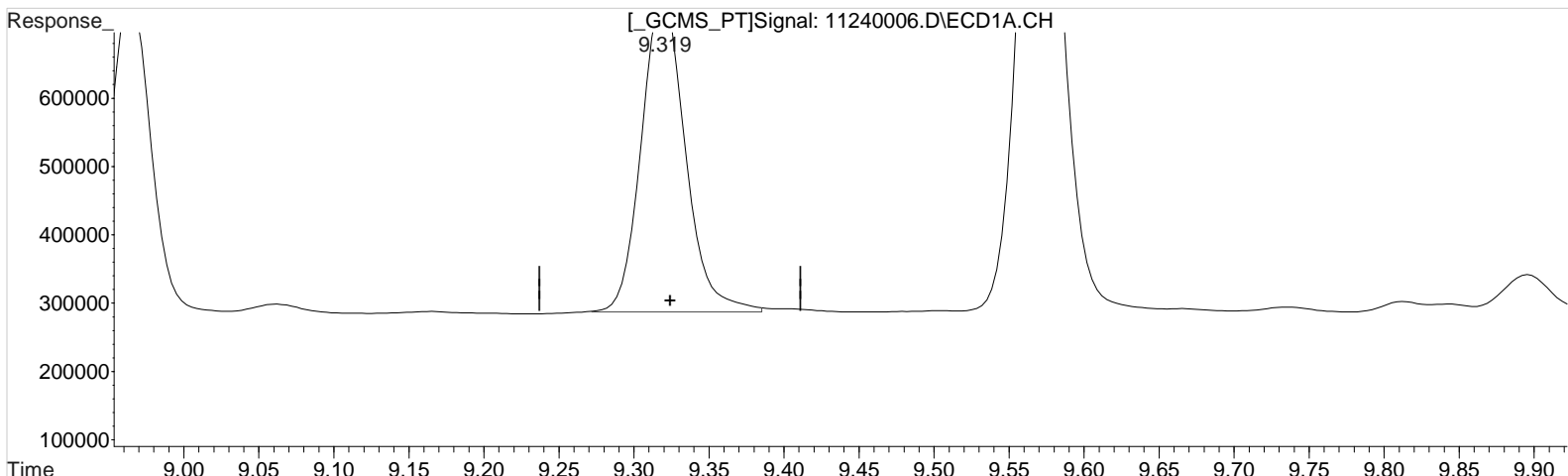
Manual Integration:
Before
11/25/20

(7) 2,4-D #2 (m)
9.065min 58.584 ppb
response 2999395

Data File : J:\gc24\data\112420\11240006.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 4:48 pm Operator: UA
Sample : KQ2010739-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:58:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.319min 44.051 ppb m
response 935640

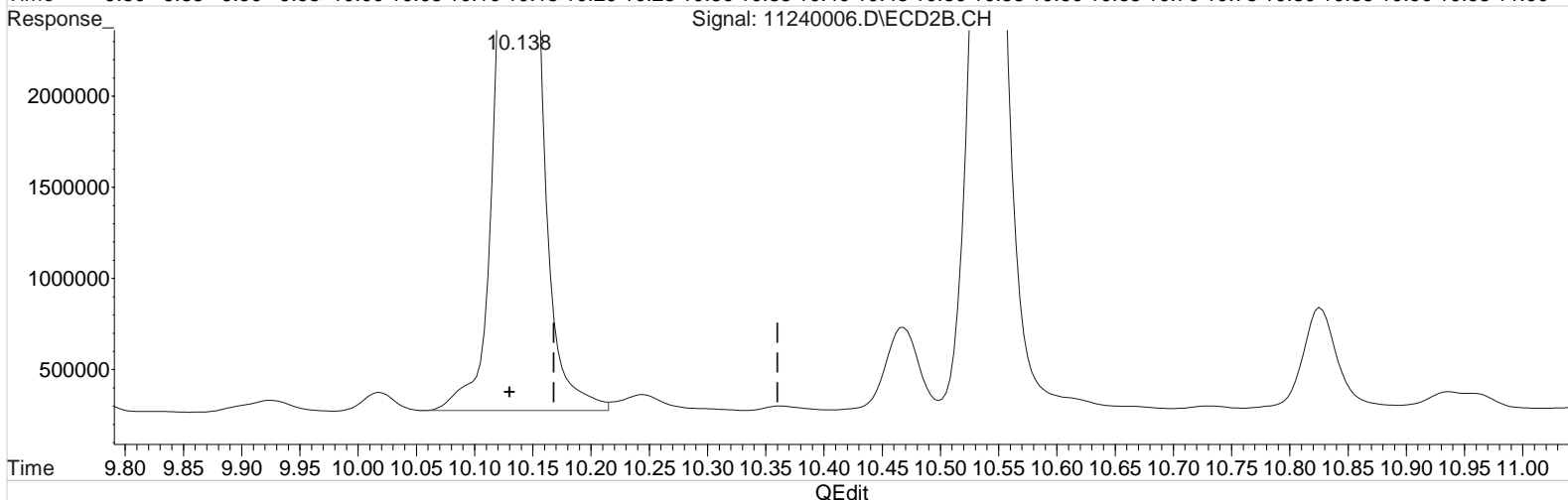
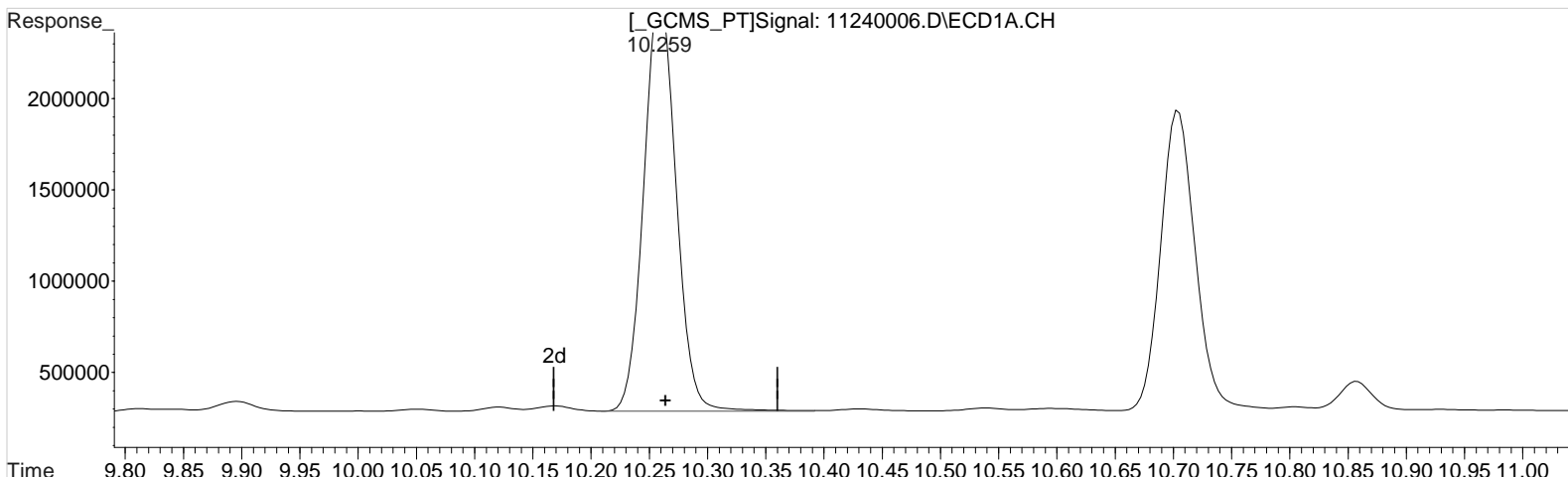
(7) 2,4-D #2 (m)
9.065min 58.584 ppb
response 2999395

Manual Integration:
After
Baseline/Shoulder
11/25/20

Data File : J:\gc24\data\112420\11240006.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 4:48 pm Operator: UA
 Sample : KQ2010739-03LCS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:58:29 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)

10.259min 46.620 ppb

response 4367424

Manual Integration:

Before

11/25/20

(8) 2,4,5-TP (Silvex) #2 (m)

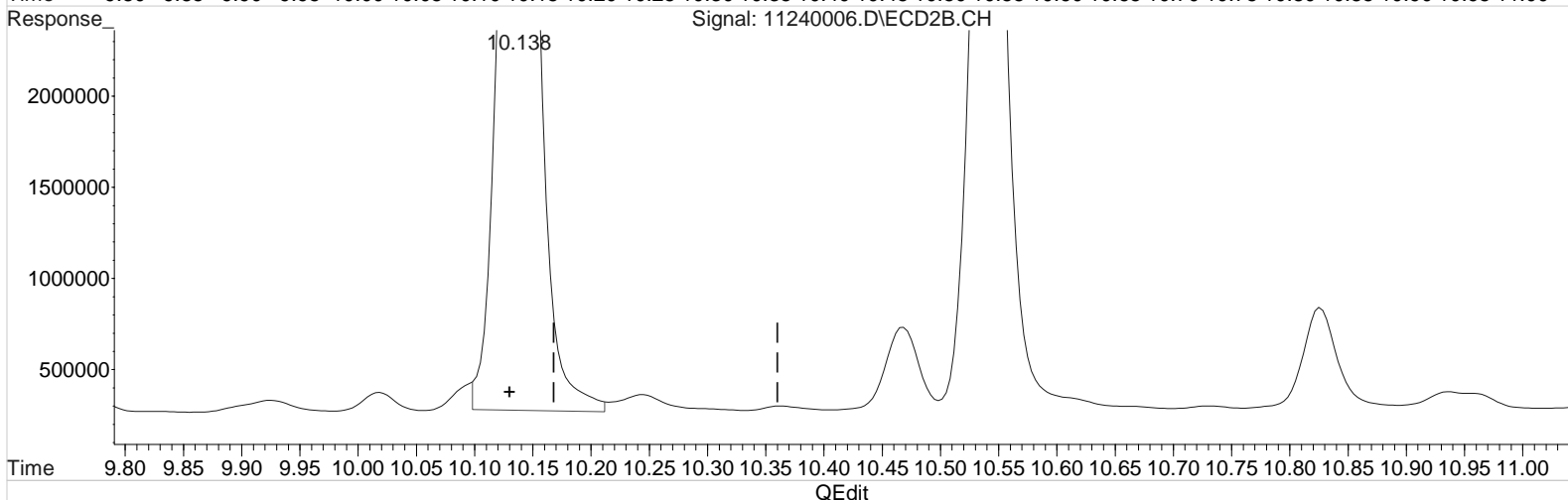
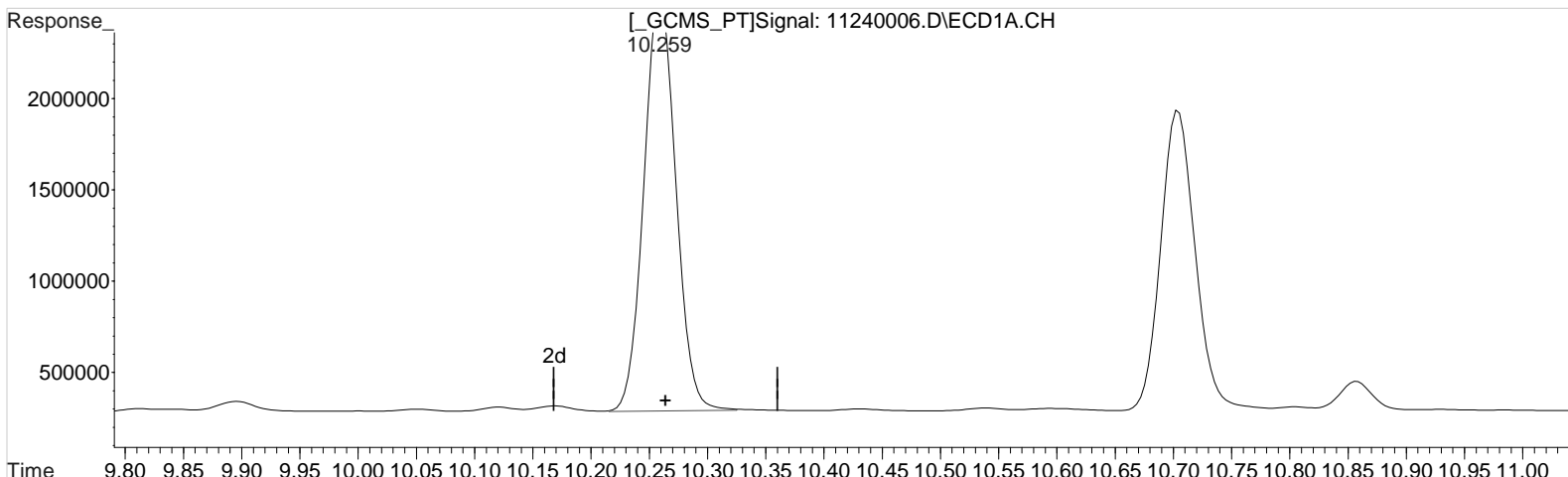
10.138min 61.378 ppb

response 12459531

Data File : J:\gc24\data\112420\11240006.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 4:48 pm Operator: UA
 Sample : KQ2010739-03LCS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:58:29 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)
 10.259min 46.320 ppb m
 response 4339268

(8) 2,4,5-TP (Silvex) #2 (m)
 10.138min 60.458 ppb m
 response 12272781

Manual Integration:
 After
 Baseline/Shoulder
 11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240025.D\
Lab ID: KQ2017638-01
RunType: MS
Matrix: Sediment

Date Acquired: 11/24/20 00:02:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240025.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 00:02:00	Vial: 31
Run Type: MS	Dilution: 1
Lab ID: KQ2017638-01	Raw Units: ppb

Bottle ID: K2010308-003.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: KQ2017638
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.98	7.81	969085	3148645	53.256	74.440	53	74	53	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	4277014	12131067	45.655	59.760	91.2	119	91.2	Y
2,4-D	9.31	9.05	949401	2915843	44.698	56.952	89.3	114	89.3	Y

Prep Amount: 30.145 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 83.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240025.D Vial: 35
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 12:02 am Operator: UA
 Sample : KQ20107638-01MS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:47:19 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.981	7.811	969085	3148645	53.256	74.440 #
Target Compounds						
1) m Dalapon	3.121	2.874	959309	2331229	39.545	48.253
3) m Dicamba	8.204	7.914	3437748	8943852	49.251	60.345
4) m MCPP	8.291	8.104	237079	1229816	5610.521	7080.977 #
5) m MCPA	8.551	8.351	311568	1673949	5321.171	6968.409 #
6) m Dichloroprop	8.954	8.751	869808	2460642	46.644	58.987 #
7) m 2,4-D	9.308	9.054	949401	2915843	44.698	56.952 #
8) m 2,4,5-TP ...	10.251	10.127	4277014	12131067	45.655	59.760 #
9) m 2,4,5-T	10.698	10.534	3406359	9754632	41.284	50.973
10) m 2,4-DB	11.274	11.167	456905	1355666	44.535	46.722
11) m Dinoseb	11.678	11.317	2143747	5771297	34.651	42.201

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

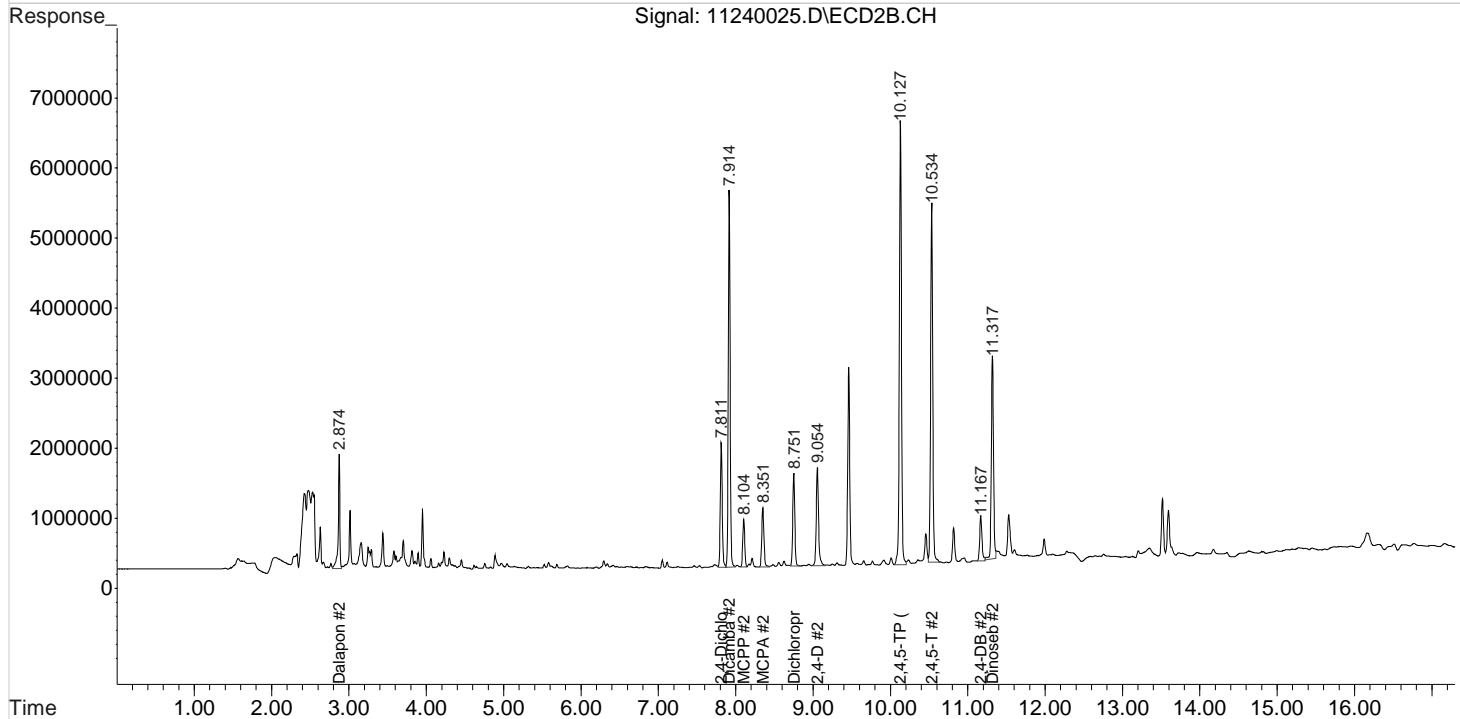
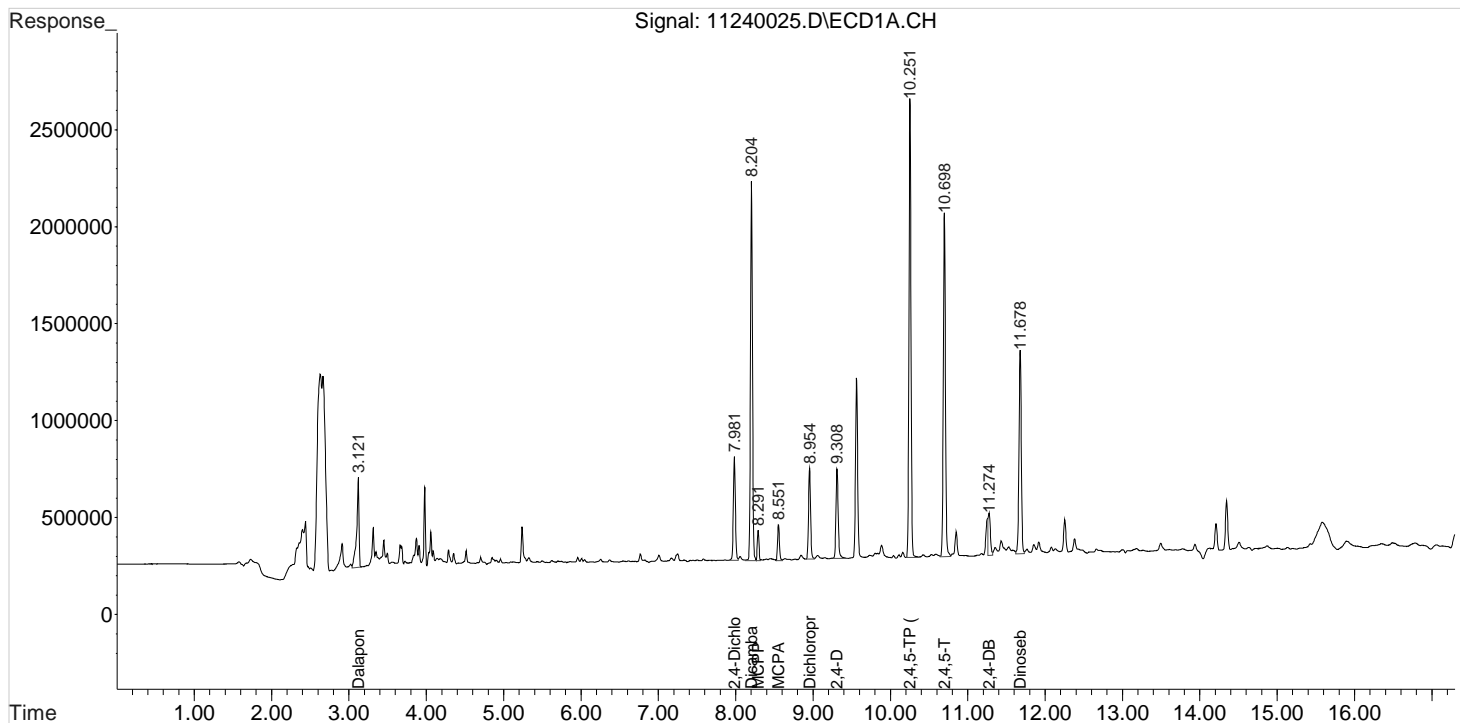
Data File : J:\gc24\data\112420\11240025.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 12:02 am
Sample : KQ20107638-01MS
Misc :

Vial: 35
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:47:19 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240043.D\
Lab ID: KQ2017639-01
RunType: MS
Matrix: Sediment

Date Acquired: 11/25/20 06:53:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240043.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 06:53:00	Vial: 41
Run Type: MS	Dilution: 20
Lab ID: KQ2017639-01	Raw Units: ppb

Bottle ID: K2010308-026.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: KQ2017639
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99 ^{+0.01}	7.82	47557	207361	2.614	4.902	52	98	52	26 - 127 P	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	287408	662041	3.068	3.261	181J	193J	181 J	Y
2,4-D	9.32 ^{+0.01}	9.07 ^{+0.01}	55864	193735	2.630	3.784	156U	224U	280 U	Y

see case narr

Prep Amount: 30.040 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

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Data File : J:\gc24\data\112420\11240043.D Vial: 49
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:53 am Operator: UA
 Sample : K2010308-26MS 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:01:09 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.992	7.821	47557	207361	2.614	4.902m#
Target Compounds						
1) m Dalapon	3.122	2.875	106634	193843	4.396	4.012
3) m Dicamba	8.208	7.925	284573	574359	4.077	3.875
4) m MCPP	8.322	8.108	65452	116832	1917.250	N.D. #
5) m MCPA	8.528	8.358	71949	295880	1228.794	N.D. #
6) m Dichloroprop	8.962	8.758	88328	178754	4.737	4.285
7) m 2,4-D	9.322	9.068	55864	193735	2.630	3.784 #
8) m 2,4,5-TP ...	10.255	10.135	287408	662041	3.068	3.261
9) m 2,4,5-T	10.702	10.538	225466	822402	2.733	4.298 #
10) m 2,4-DB	11.295	11.175	26014	621434	2.536	21.417 #
11) m Dinoseb	11.678	11.325	806028	920657	13.029	6.732 #

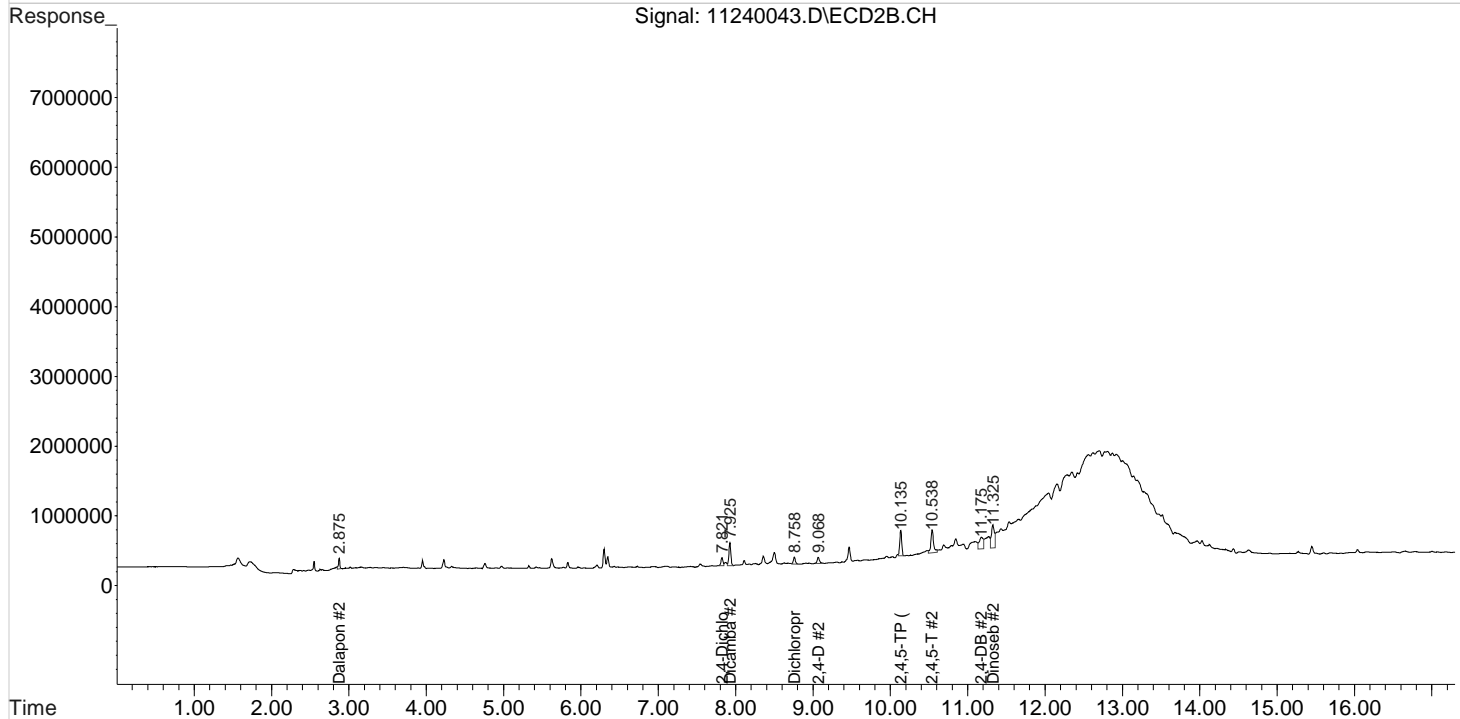
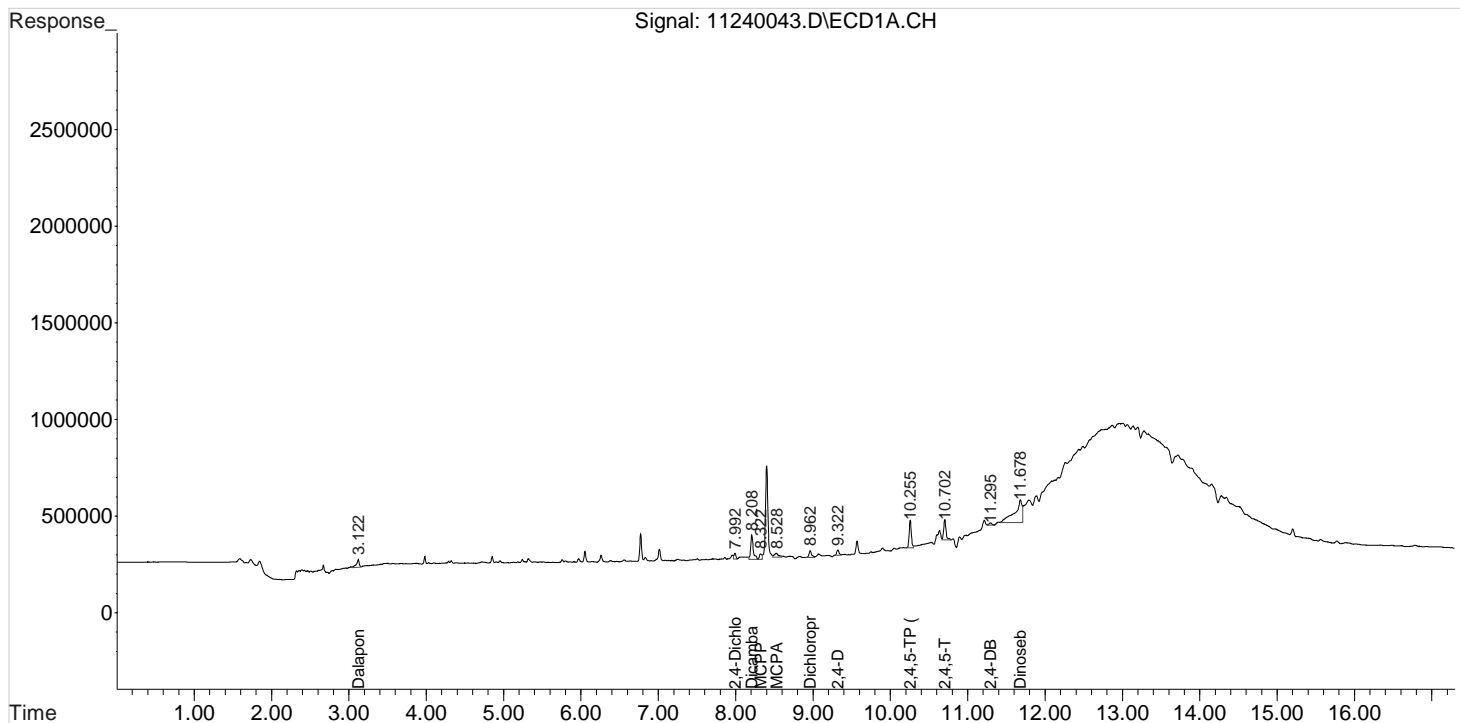
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112420\11240043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 6:53 am
Sample : K2010308-26MS 20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:01:09 2020
Quant Results File: 102120_8151.RES

Vial: 49
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

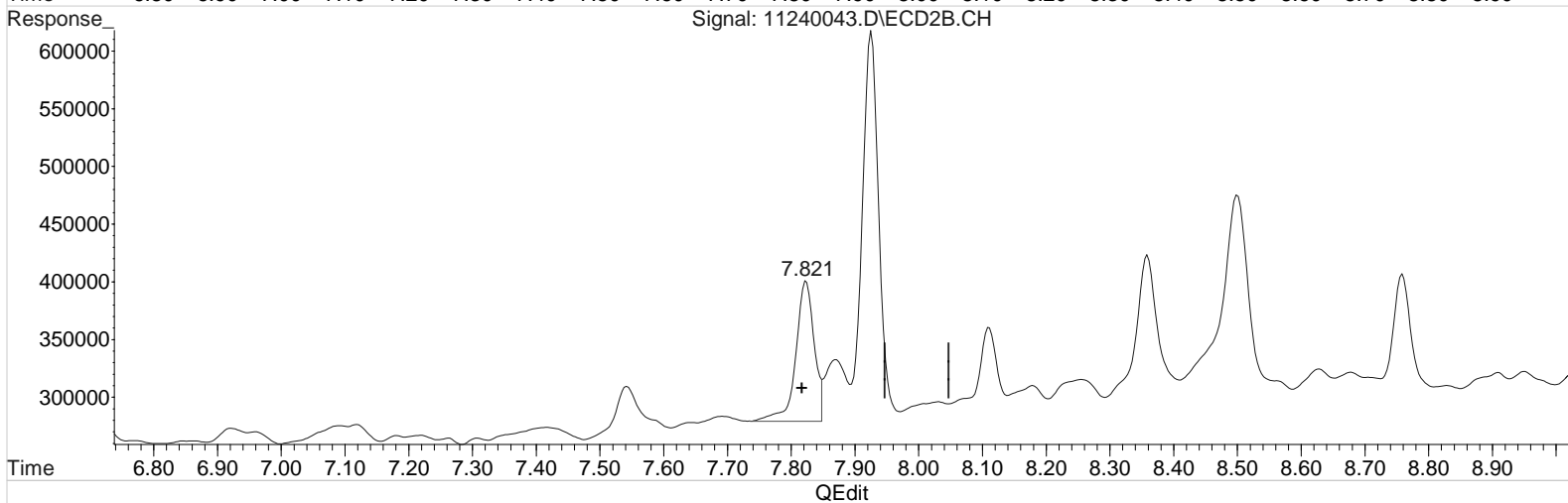
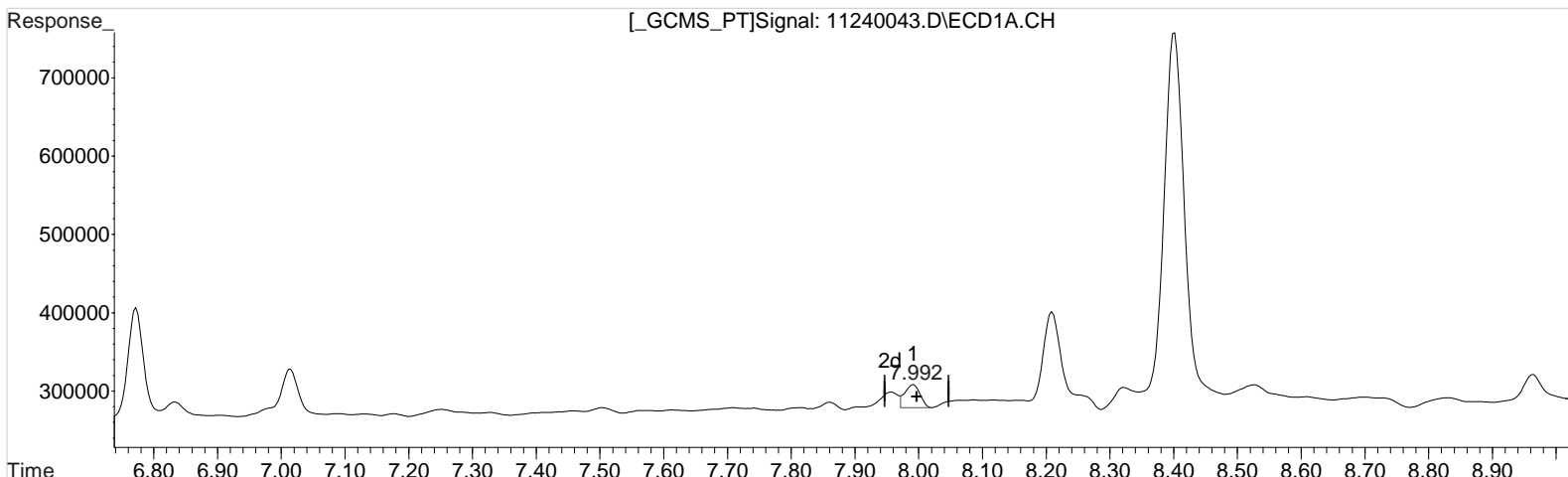


Data File : J:\gc24\data\112420\11240043.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 6:53 am
Sample : K2010308-26MS 20X
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:00:53 2020
Quant Results File: 102120_8151.RES

Vial: 49
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.992min 2.614 ppb
response 47557

Manual Integration:

Before

11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

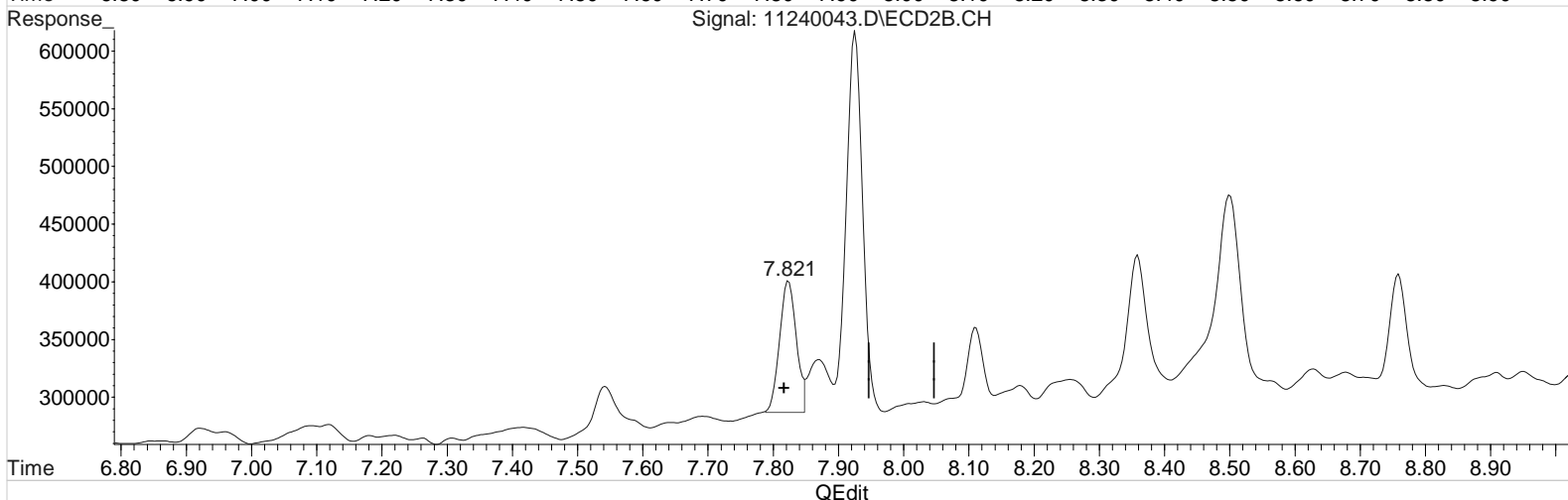
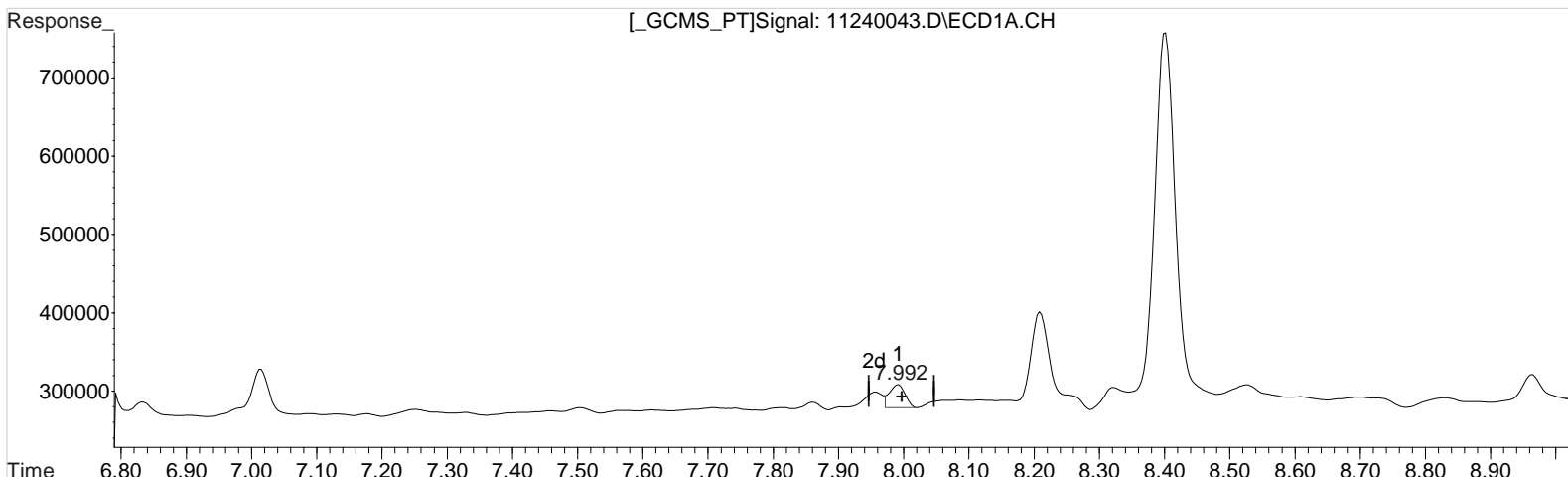
7.821min 5.866 ppb
response 248110

(+) = Expected Retention Time

Data File : J:\gc24\data\112420\11240043.D Vial: 49
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 6:53 am Operator: UA
 Sample : K2010308-26MS 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:00:53 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(2) 2,4-Dichlorophenylacetic Acid (s)

7.992min 2.614 ppb
 response 47557

Manual Integration:

After
 Baseline/Shoulder
 11/25/20

(2) 2,4-Dichlorophenylacetic Acid #2 (s)

7.821min 4.902 ppb m
 response 207361

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240026.D\
Lab ID: KQ2017638-02
RunType: DMS
Matrix: Sediment

Date Acquired: 11/24/20 00:25:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240026.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 00:25:00	Vial: 32
Run Type: DMS	Dilution: 1
Lab ID: KQ2017638-02	Raw Units: ppb

Bottle ID: K2010308-003.02	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369505	Report Group: KQ2017638
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99	7.82	951269	3215714	52.277	76.025	52	76	52	26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26	10.13	4390023	13024660	46.861	64.161	94.0	129	94.0	Y
2,4-D	9.32	9.06	940219	3086424	44.266	60.283	88.8	121	88.8	Y

Prep Amount: 30.038 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 83.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240026.D Vial: 36
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 12:25 am Operator: UA
 Sample : KQ20107638-02DMS Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:48:12 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.989	7.822	951269	3215714	52.277	76.025 #
Target Compounds						
1) m Dalapon	3.122	2.875	1217917	2374557	50.206	49.150
3) m Dicamba	8.209	7.925	3466105	9269307	49.658	62.540 #
4) m MCPP	8.295	8.112	238875	1280760	5649.169	7433.071 #
5) m MCPA	8.559	8.358	316739	1741512	5409.485	7325.498 #
6) m Dichloroprop	8.962	8.758	881662	2534048	47.280	60.747 #
7) m 2,4-D	9.315	9.062	940219	3086424	44.266m	60.283m#
8) m 2,4,5-TP ...	10.259	10.135	4390023	13024660	46.861	64.161 #
9) m 2,4,5-T	10.702	10.538	3493871	10126795	42.345	52.918
10) m 2,4-DB	11.279	11.175	525033	1398249	51.176	48.189
11) m Dinoseb	11.682	11.322	2256673	5814867	36.477	42.520

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

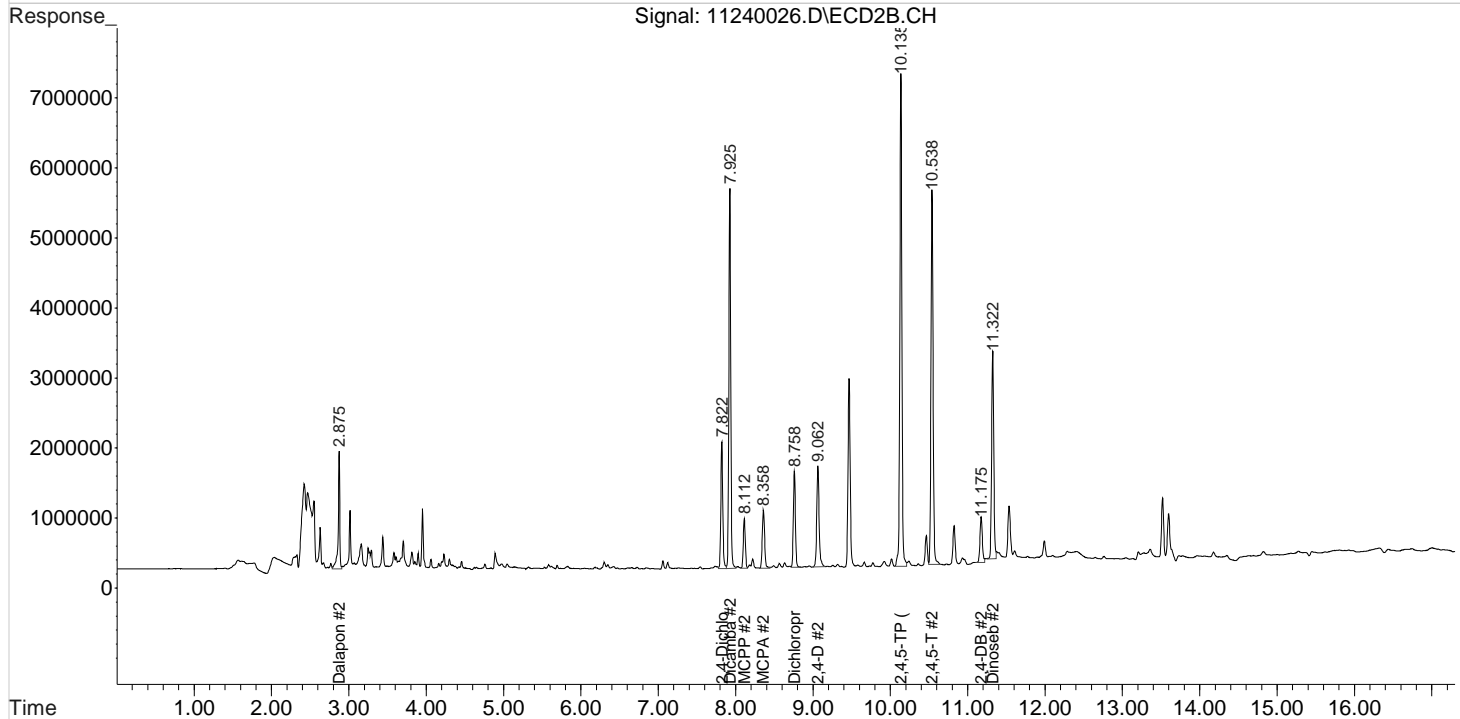
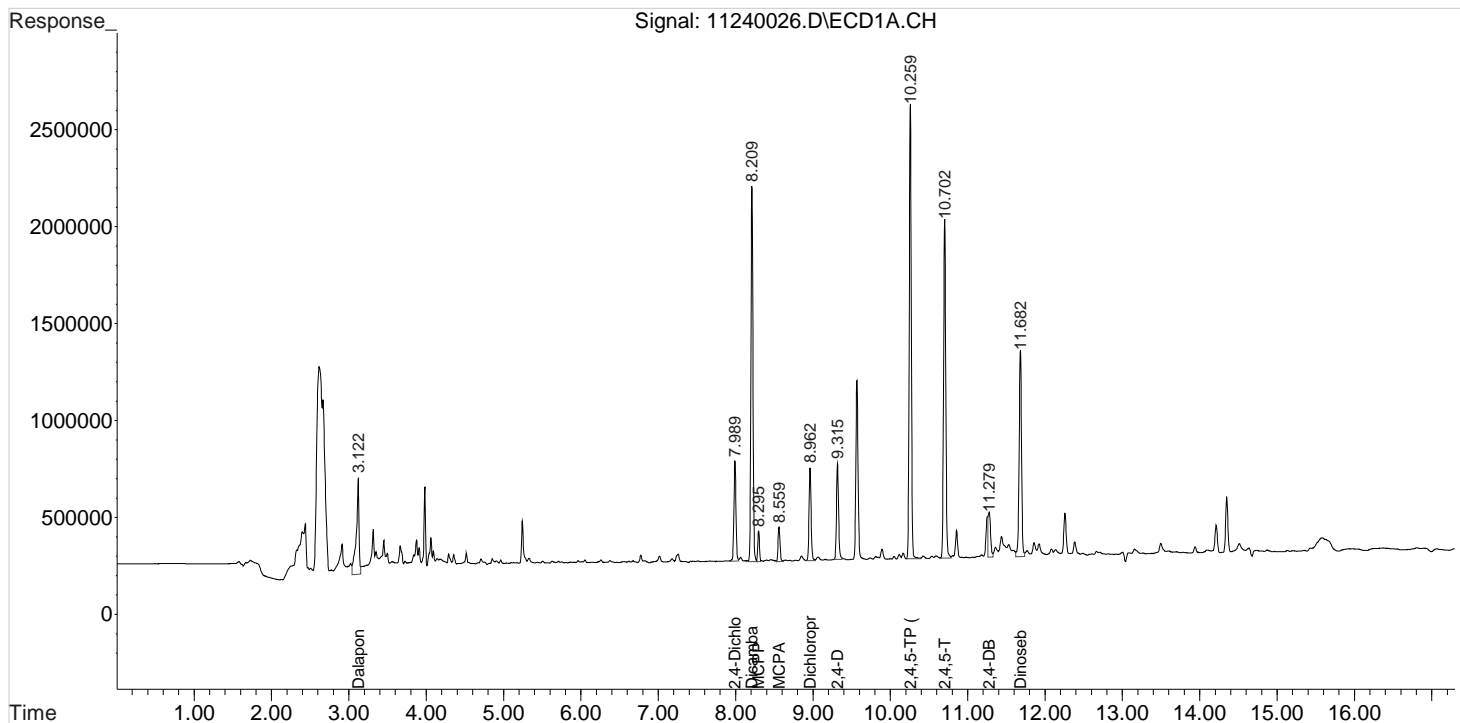
Data File : J:\gc24\data\112420\11240026.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 12:25 am
Sample : KQ20107638-02DMS
Misc :

Vial: 36
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:48:12 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

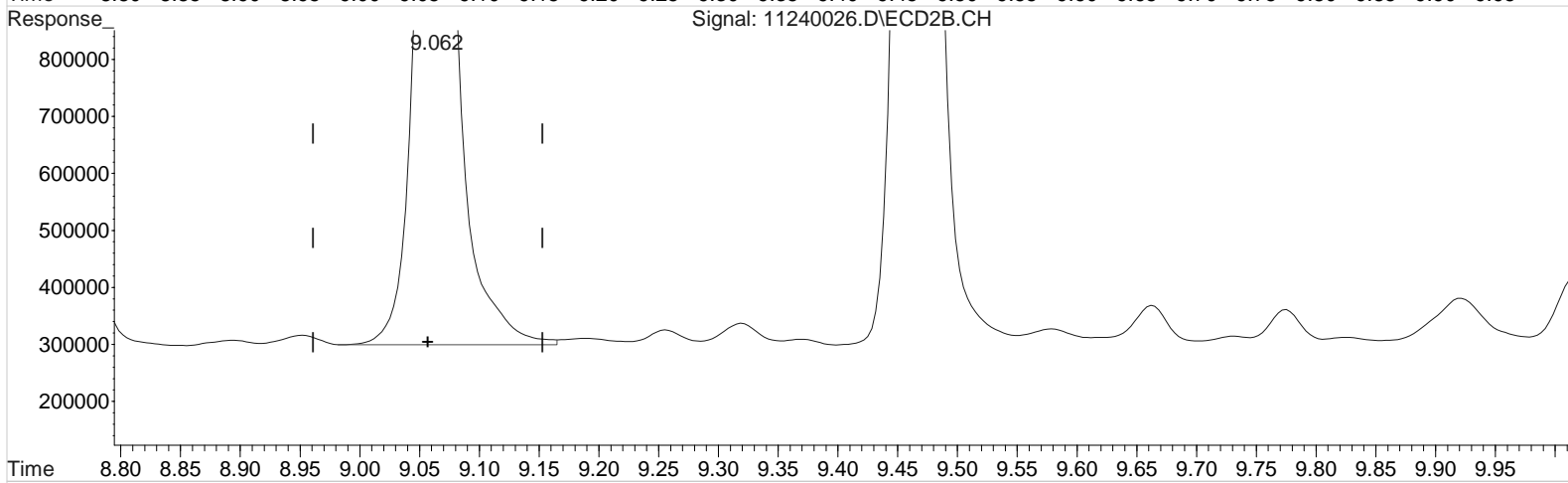
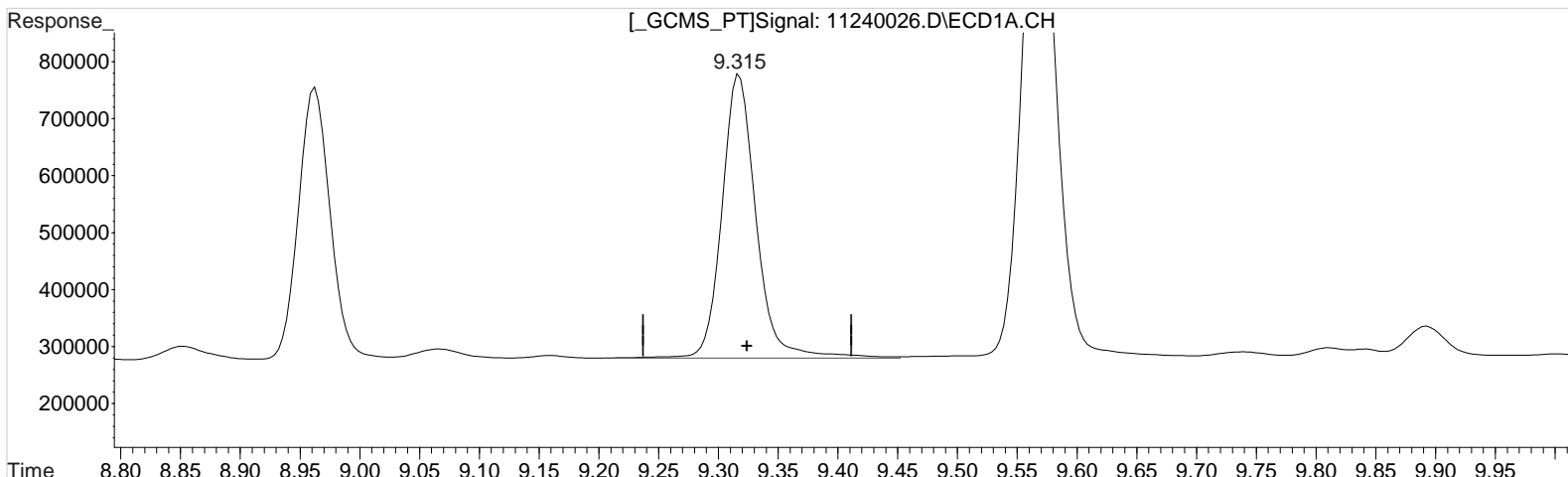
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240026.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 12:25 am Operator: UA
Sample : KQ20107638-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:47:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
9.315min 46.705 ppb
response 992026

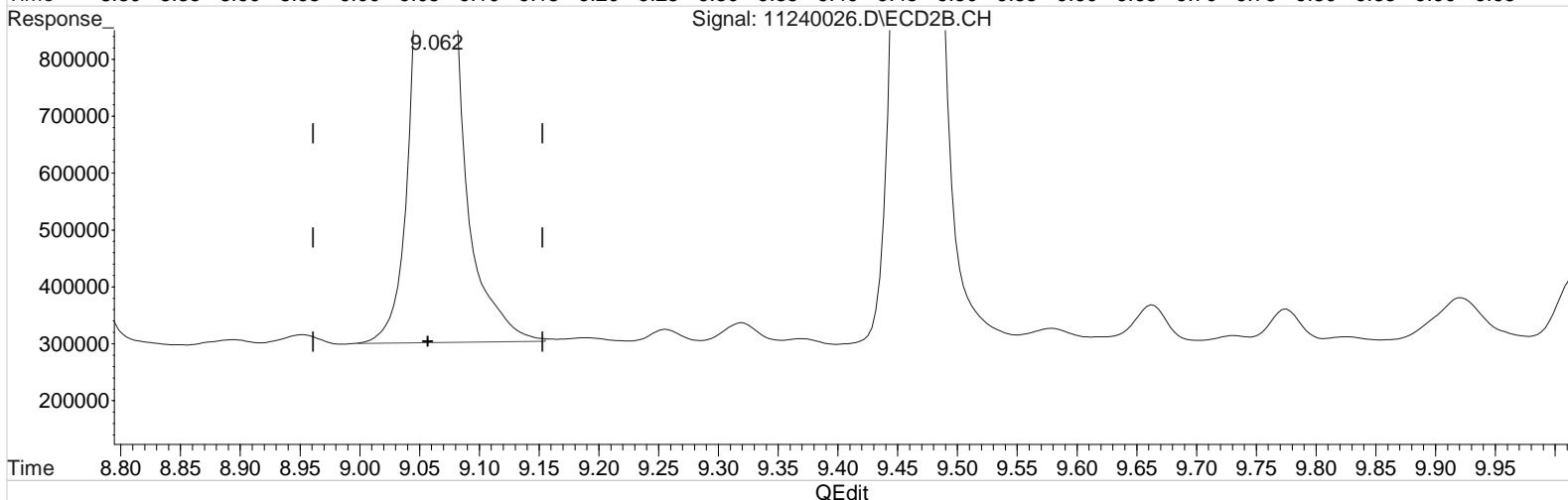
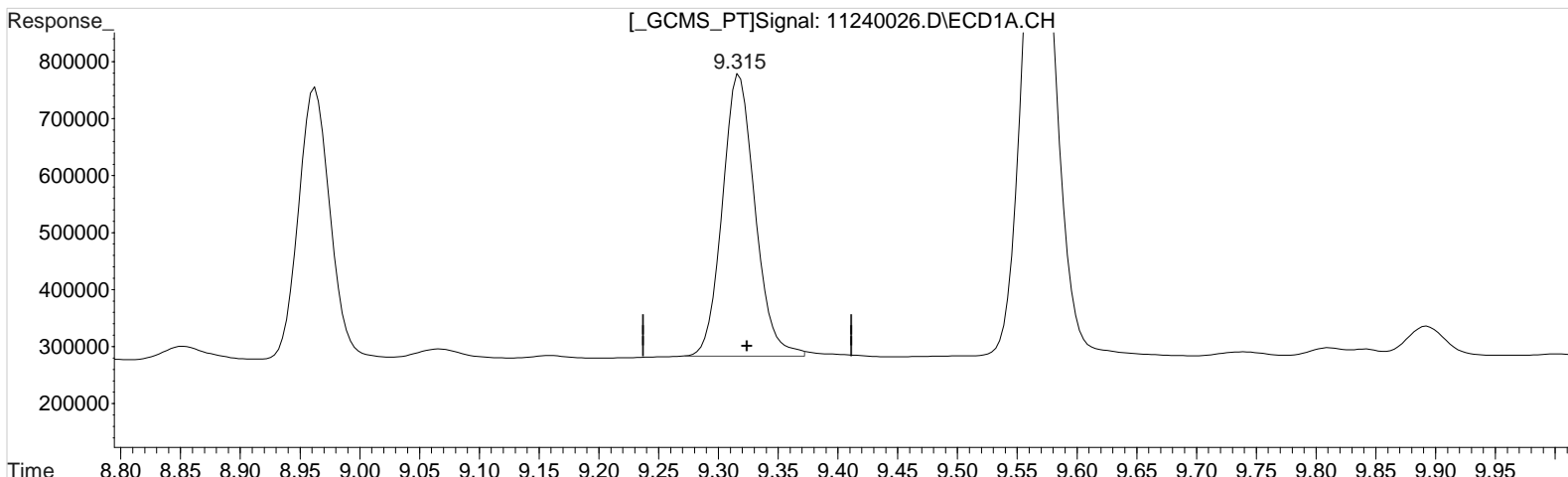
Manual Integration:
Before
11/25/20

(7) 2,4-D #2 (m)
9.062min 60.959 ppb
response 3121036

Data File : J:\gc24\data\112420\11240026.D Vial: 36
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 12:25 am Operator: UA
Sample : KQ20107638-02DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:47:41 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.315min 44.266 ppb m
response 940219

Manual Integration:

After

Baseline/Shoulder

11/25/20

(7) 2,4-D #2 (m)

9.062min 60.283 ppb m
response 3086424

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240044.D\
Lab ID: KQ2017639-02
RunType: DMS
Matrix: Sediment

Date Acquired: 11/25/20 07:16:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
Analytical Hold Time	X	
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Std MRL Unsupported by ICAL	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240044.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 07:16:00	Vial: 42
Run Type: DMS	Dilution: 20
Lab ID: KQ2017639-02	Raw Units: ppb

Bottle ID: K2010308-026.01	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot: 369506	Report Group: KQ2017639
Analysis: 8151A	Prep Method: Method	
	Prep Date: 11/10/20	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	7.99 ^{+0.01}	7.82	43838	190789	2.409	4.511	48	90	48	26 - 127 P	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	273121	600498	2.915	2.958	172J	174J	172 J	Y
2,4-D	9.32 ^{+0.01}	9.06	51781	164850	2.438	3.220	143U	189U	280 U	Y

see case narr

Prep Amount: 30.185 g **Dilution:** 20
Prep Final Amount: 50.00 mL **Basis Factor:** 56.30

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240044.D Vial: 50
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 7:16 am Operator: UA
 Sample : K2010308-26MS 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:02:37 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.990	7.819	43838	190789	2.409	4.511 #
Target Compounds						
1) m Dalapon	3.123	2.876	117697	182759	4.852	3.783
3) m Dicamba	8.206	7.919	262562	527778	3.762	3.561
4) m MCPP	8.320	8.106	64378	80608	1894.138	N.D. #
5) m MCPA	8.603	8.353	33202	310427	567.046	N.D. #
6) m Dichloroprop	8.956	8.753	89971	167801	4.825	4.023
7) m 2,4-D	9.316	9.063	51781	164850	2.438m	3.220m#
8) m 2,4,5-TP ...	10.253	10.126	273121	600498	2.915	2.958
9) m 2,4,5-T	10.696	10.533	164557	572765	1.994	2.993 #
10) m 2,4-DB	11.293	11.173	33827	269613	3.297	9.292 #
11) m Dinoseb	11.673	11.316	1000150	455842	16.166	3.333 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

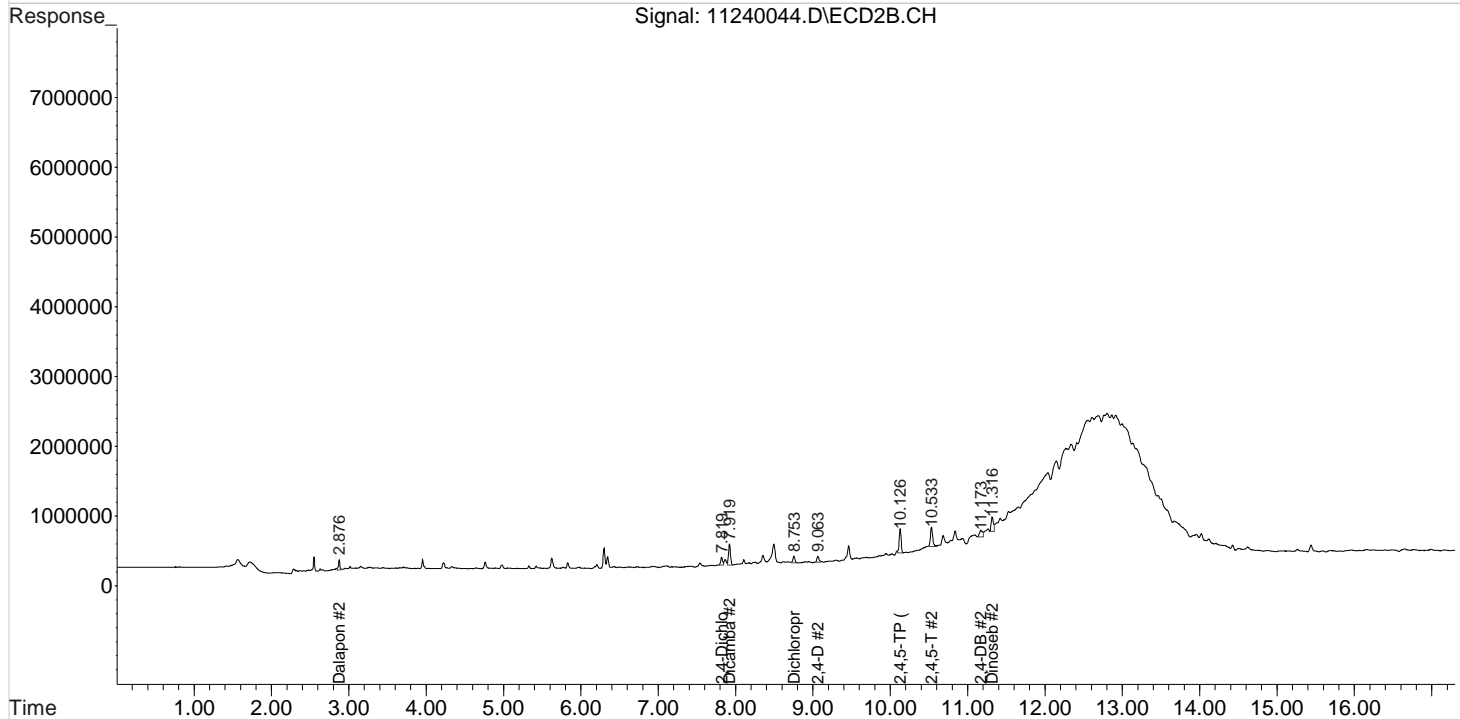
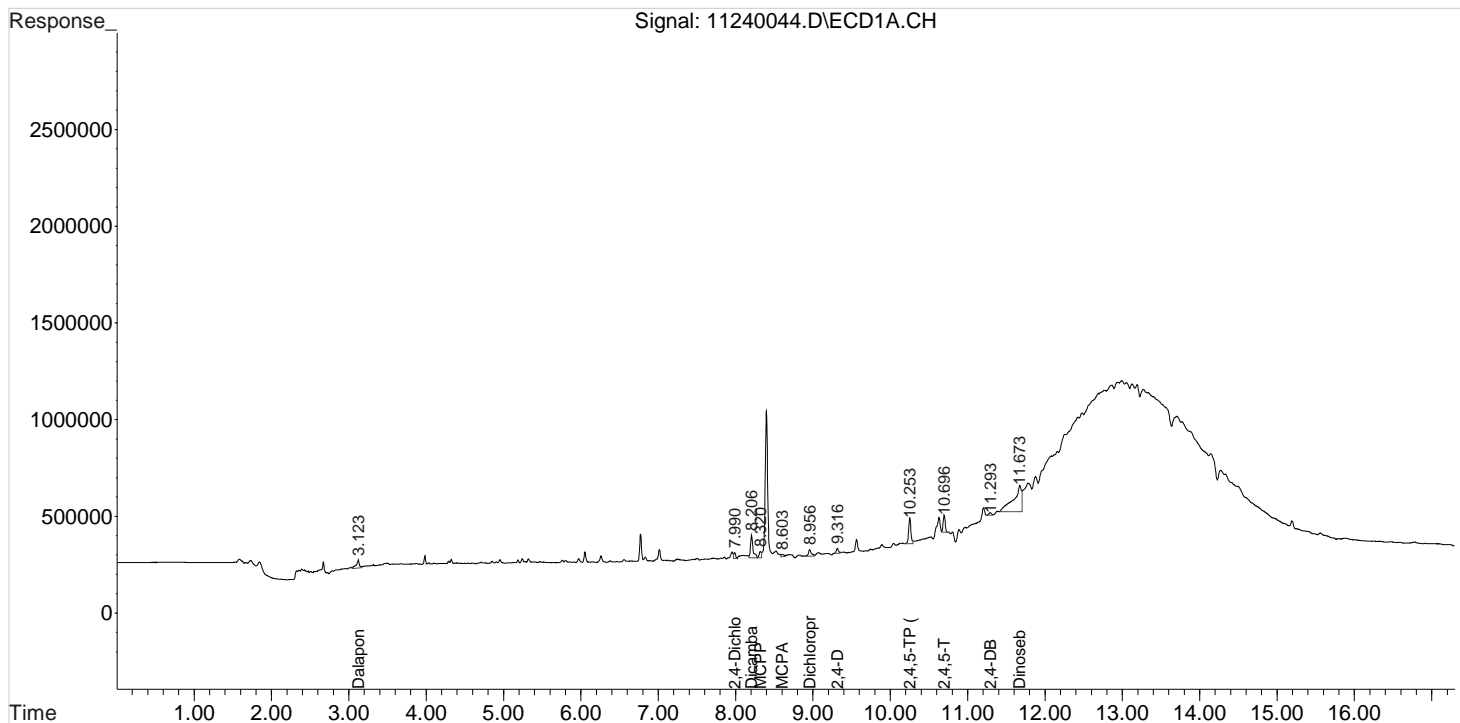
Data File : J:\gc24\data\112420\11240044.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 7:16 am
Sample : K2010308-26MS 20X
Misc :

Vial: 50
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:02:37 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

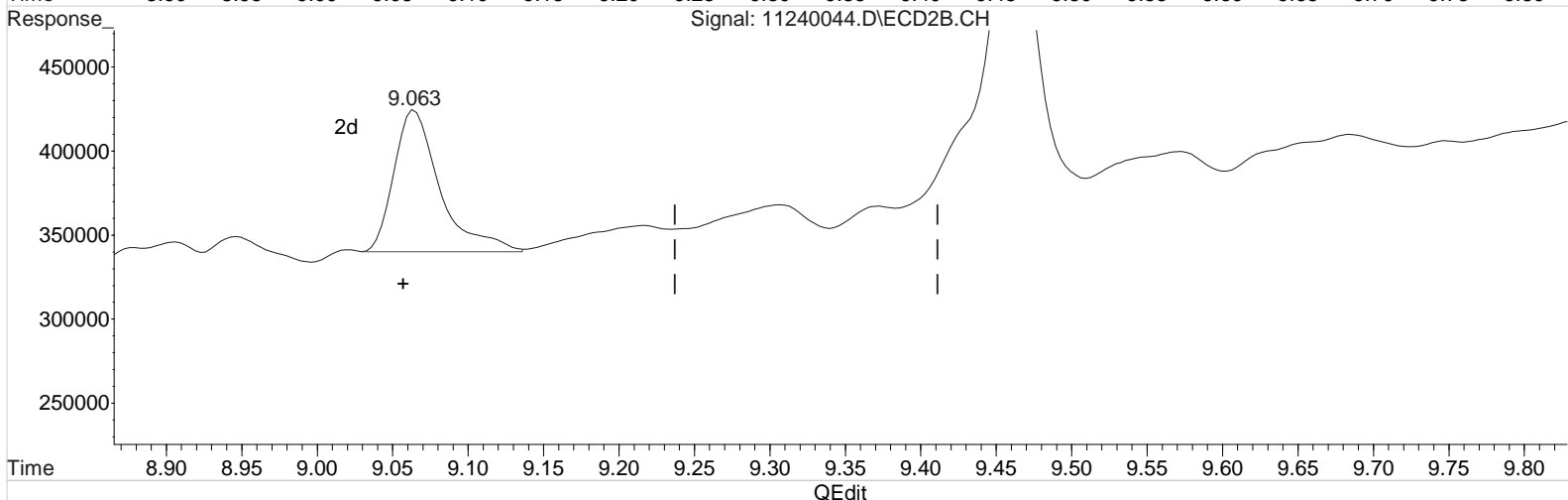
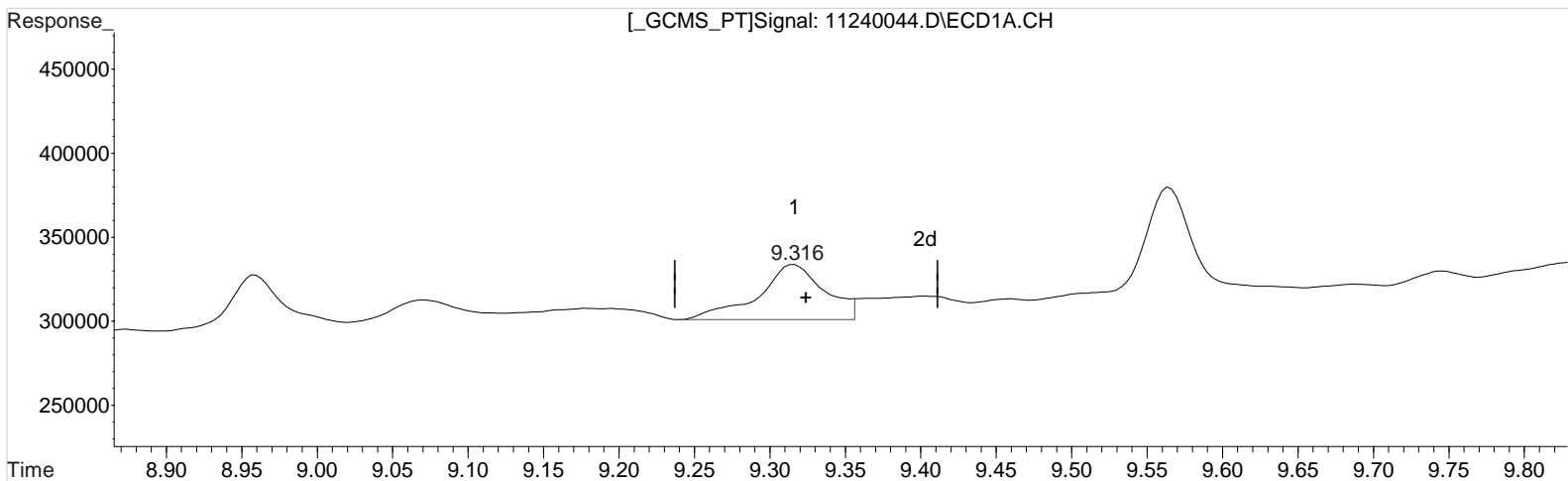
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240044.D Vial: 50
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 7:16 am Operator: UA
Sample : K2010308-26MS 20X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:02:01 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)

9.316min 4.848 ppb
response 102974

(7) 2,4-D #2 (m)

9.063min 3.490 ppb
response 178676

Manual Integration:

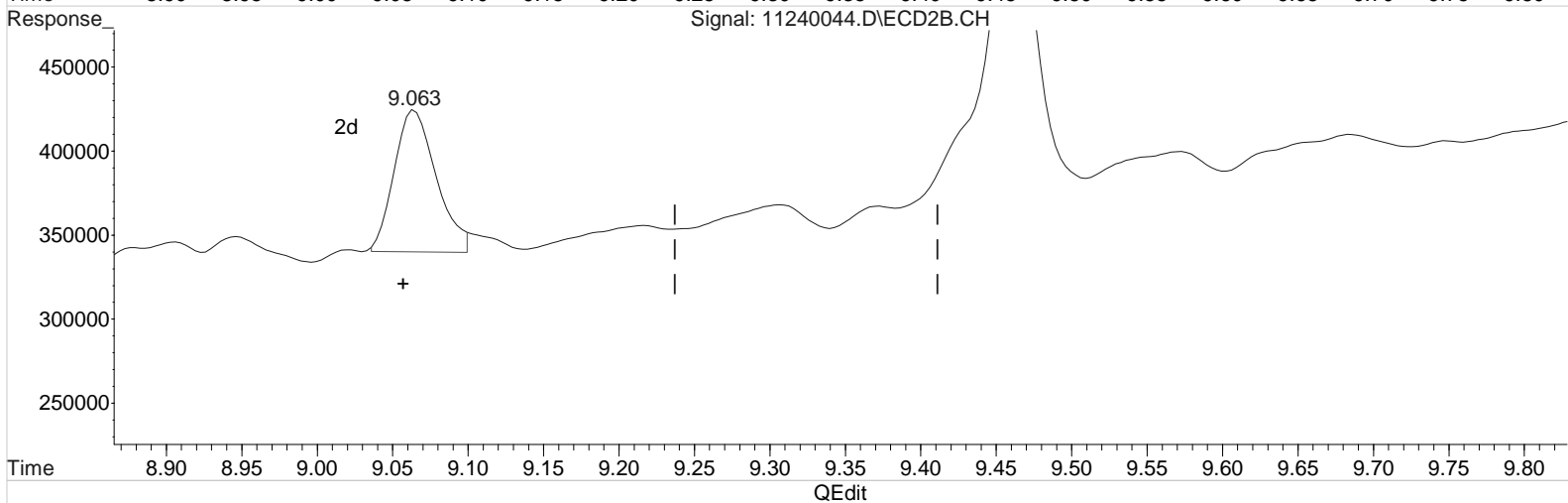
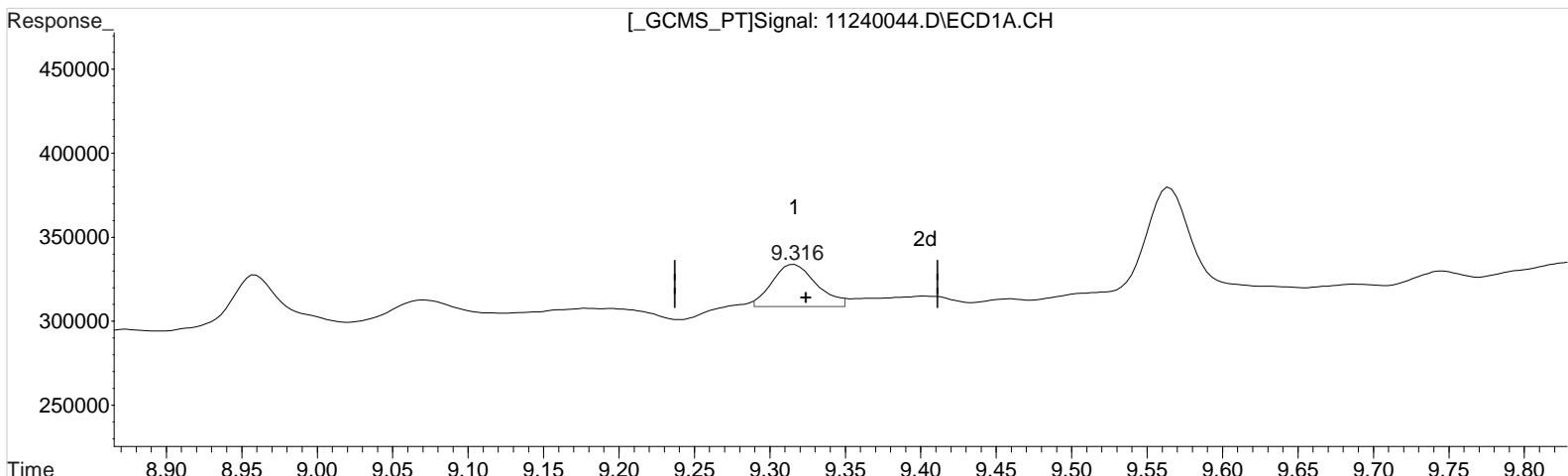
Before

11/25/20

Data File : J:\gc24\data\112420\11240044.D Vial: 50
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 7:16 am Operator: UA
 Sample : K2010308-26MS 20X Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:02:01 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(7) 2,4-D (m)
 9.316min 2.438 ppb m
 response 51781

(7) 2,4-D #2 (m)
 9.063min 3.220 ppb m
 response 164850

Manual Integration:
 After
 Baseline/Shoulder
 11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240004.D\
Lab ID: KQ2018825-02
RunType: CCB
Matrix: Sediment

Date Acquired: 11/24/20 16:03:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions		X

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Analyte Coelutions - RTX-CLP2	Dicamba	8.22			NR
	MCP	8.22			NR

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240004.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 16:03:00	Vial: 2
Run Type: CCB	Dilution: 1
Lab ID: KQ2018825-02	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.01 ^{+0.02}	7.84 ^{+0.02}	7052	29024	0.388	0.686				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.27 ^{+0.01}	10.14	6439	22180	0.069	0.109	0.12U	0.18U	2.4 U	Y
2,4-D	0.00	9.04 ^{-0.03}	0	95824	0.000	1.872	0U	3.1U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240004.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 4:03 pm Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:37:43 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.009	7.835	7052	29024	0.388	0.686 #
Target Compounds						
1) m Dalapon	3.132	2.902f	7478	42360	0.308	0.877 #
3) m Dicamba	8.219	7.929	9441	14941	0.135	0.101 #
4) m MCPP	8.219f	8.135	9441	6080	711.939	N.D. #
5) m MCPA	0.000	8.372	0	5772	N.D.	N.D.
6) m Dichloroprop	8.992	8.765	5056	6170	0.271	0.148 #
7) m 2,4-D	0.000	9.042	0	95824	N.D. d	1.872
8) m 2,4,5-TP ...	10.266	10.139	6439	22180	0.069	0.109 #
9) m 2,4,5-T	10.712	10.552	4969	19883	0.060	0.104 #
10) m 2,4-DB	11.259	11.189	10012	2662	0.976	0.092 #
11) m Dinoseb	11.679	11.325	4966	20176	0.080	0.148 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

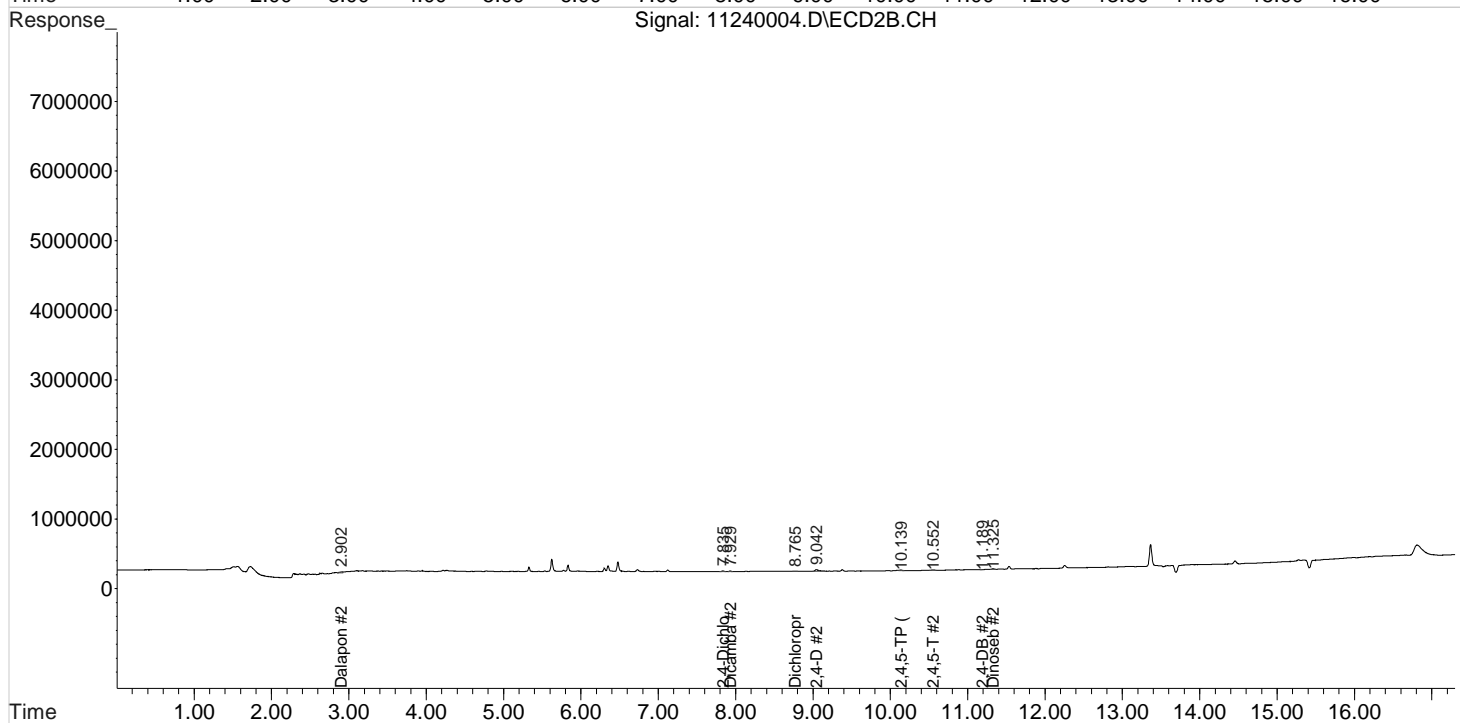
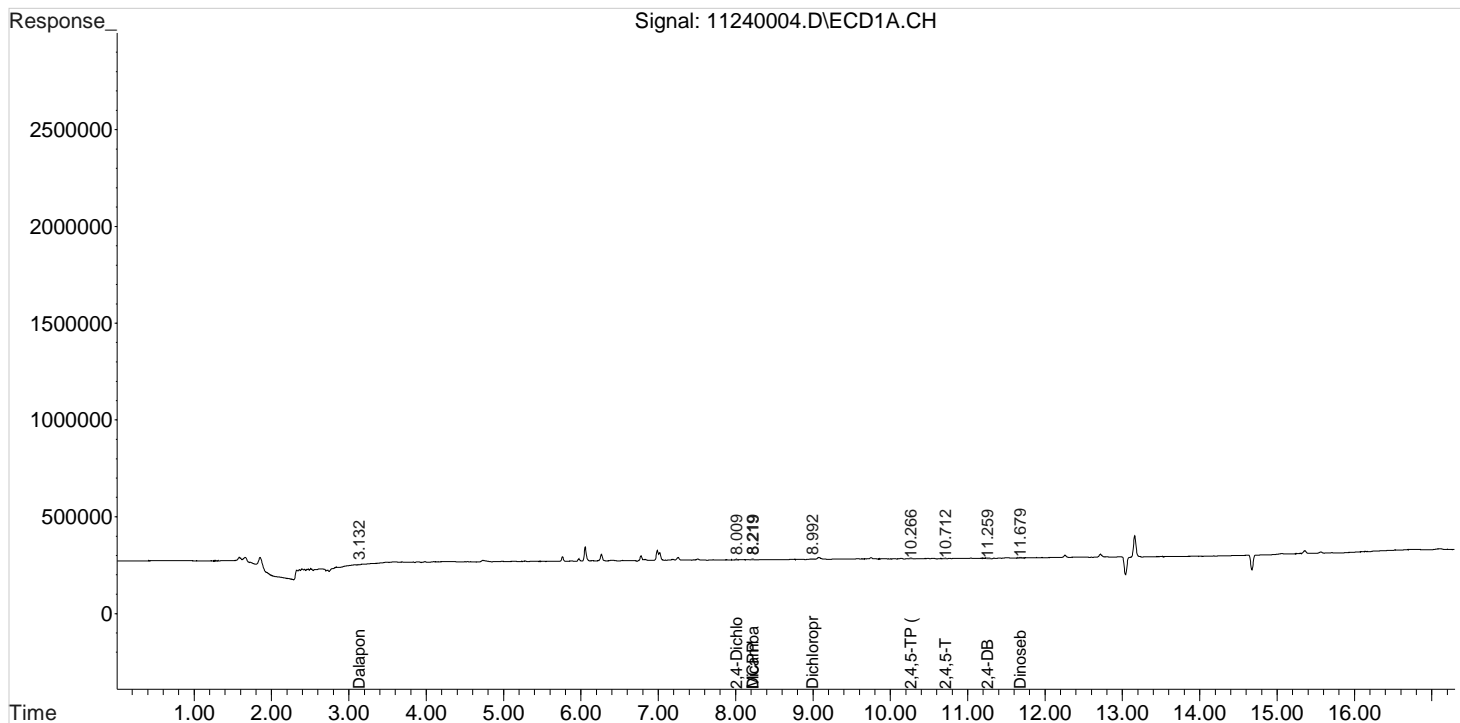
Data File : J:\gc24\data\112420\11240004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 4:03 pm
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:37:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240016.D\
Lab ID: KQ2018825-04
RunType: CCB
Matrix: Sediment

Date Acquired: 11/24/20 20:36:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240016.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 20:36:00	Vial: 4
Run Type: CCB	Dilution: 1
Lab ID: KQ2018825-04	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	8050	32318	0.442	0.764				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.26 ^{+0.01}	10.14 ^{+0.01}	8256	21676	0.088	0.107	0.15U	0.18U	2.4 U	Y
2,4-D	9.29 ^{-0.03}	9.04 ^{-0.02}	1436	108163	0.068	2.113	0.11U	3.5U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240016.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 8:36 pm Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:42:56 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.004	7.834	8050	32318	0.442	0.764 #
Target Compounds						
1) m Dalapon	3.131	2.901f	6420	45091	0.265	0.933 #
3) m Dicamba	8.214	7.927	7189	14099	0.103	0.095
4) m MCPP	8.298	8.124	1943	7118	550.588	N.D. #
5) m MCPA	8.504f	8.371	1463	6409	24.986	N.D. #
6) m Dichloroprop	8.994	8.764	4658	6384	0.250	0.153 #
7) m 2,4-D	9.288	9.041	1436	108163	0.068	2.113 #
8) m 2,4,5-TP ...	10.261	10.137	8256	21676	0.088	0.107
9) m 2,4,5-T	10.708	10.547	5572	19386	0.068	0.101 #
10) m 2,4-DB	11.258	11.187	19933	5284	1.943	0.182 #
11) m Dinoseb	11.681	11.324	6105	18473	0.099	0.135 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

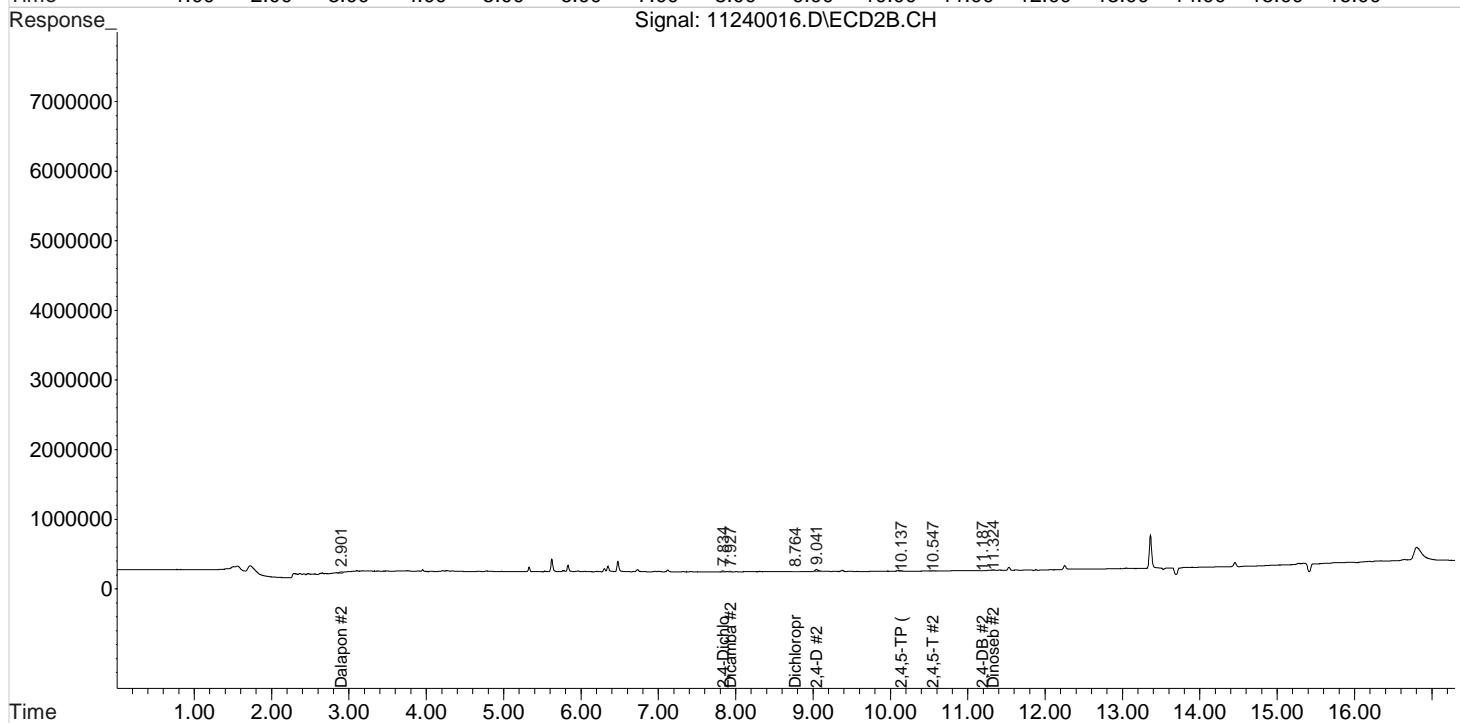
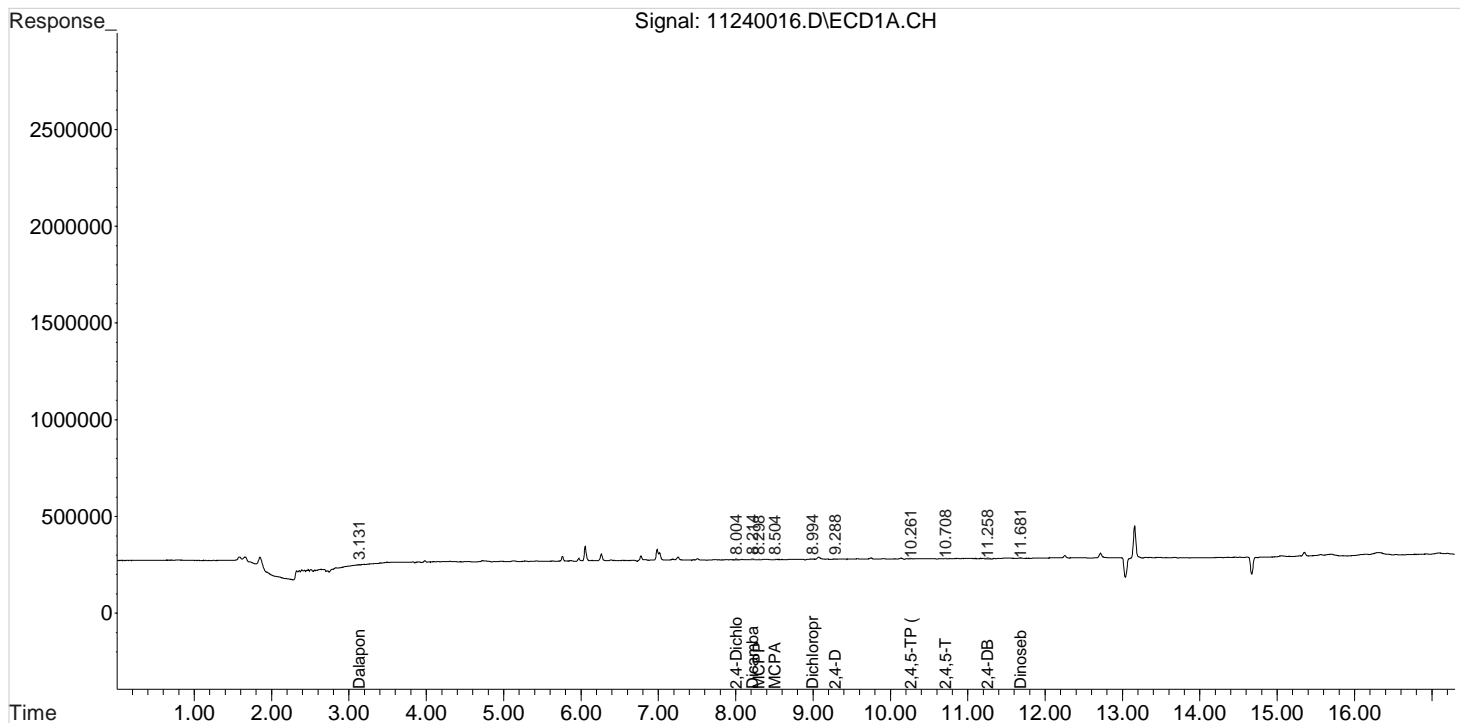
Data File : J:\gc24\data\112420\11240016.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 8:36 pm
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:42:56 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240028.D\
Lab ID: KQ2018825-06
RunType: CCB
Matrix: Sediment

Date Acquired: 11/25/20 01:10:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240028.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 01:10:00	Vial: 6
Run Type: CCB	Dilution: 1
Lab ID: KQ2018825-06	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.01}	7.83 ^{+0.01}	7257	37756	0.399	0.893				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	5721	21802	0.061	0.107	0.10U	0.18U	2.4 U	Y
2,4-D	9.34 ^{+0.02}	9.03 ^{-0.03}	3160	139787	0.149	2.730	0.25U	4.6U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240028.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 1:10 am Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:48:36 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.005	7.828	7257	37756	0.399	0.893 #
Target Compounds						
1) m Dalapon	3.128	2.901f	3586	43964	0.148	0.910 #
3) m Dicamba	8.208	7.921	6143	15395	0.088	0.104
4) m MCPP	8.295	8.124	1478	7112	540.582	N.D. #
5) m MCPA	8.491f	8.368	1429	7699	24.405	N.D. #
6) m Dichloroprop	8.988	8.754	27459	5469	1.473	0.131 #
7) m 2,4-D	9.338	9.034	3160	139787	0.149	2.730 #
8) m 2,4,5-TP ...	10.255	10.131	5721	21802	0.061	0.107 #
9) m 2,4,5-T	10.705	10.548	5160	16872	0.063	0.088 #
10) m 2,4-DB	11.258	11.131	23504	8200	2.291	0.283 #
11) m Dinoseb	11.678	11.321	5127	20641	0.083	0.151 #

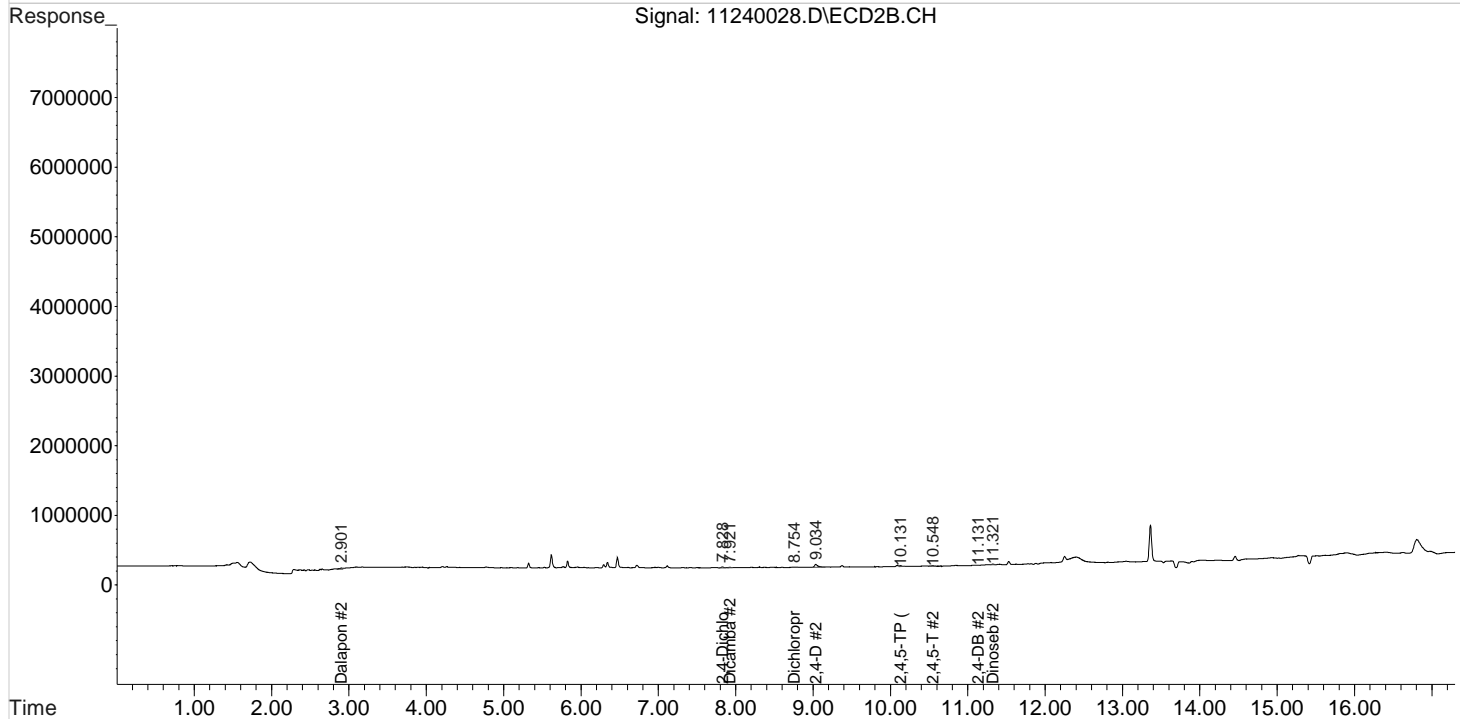
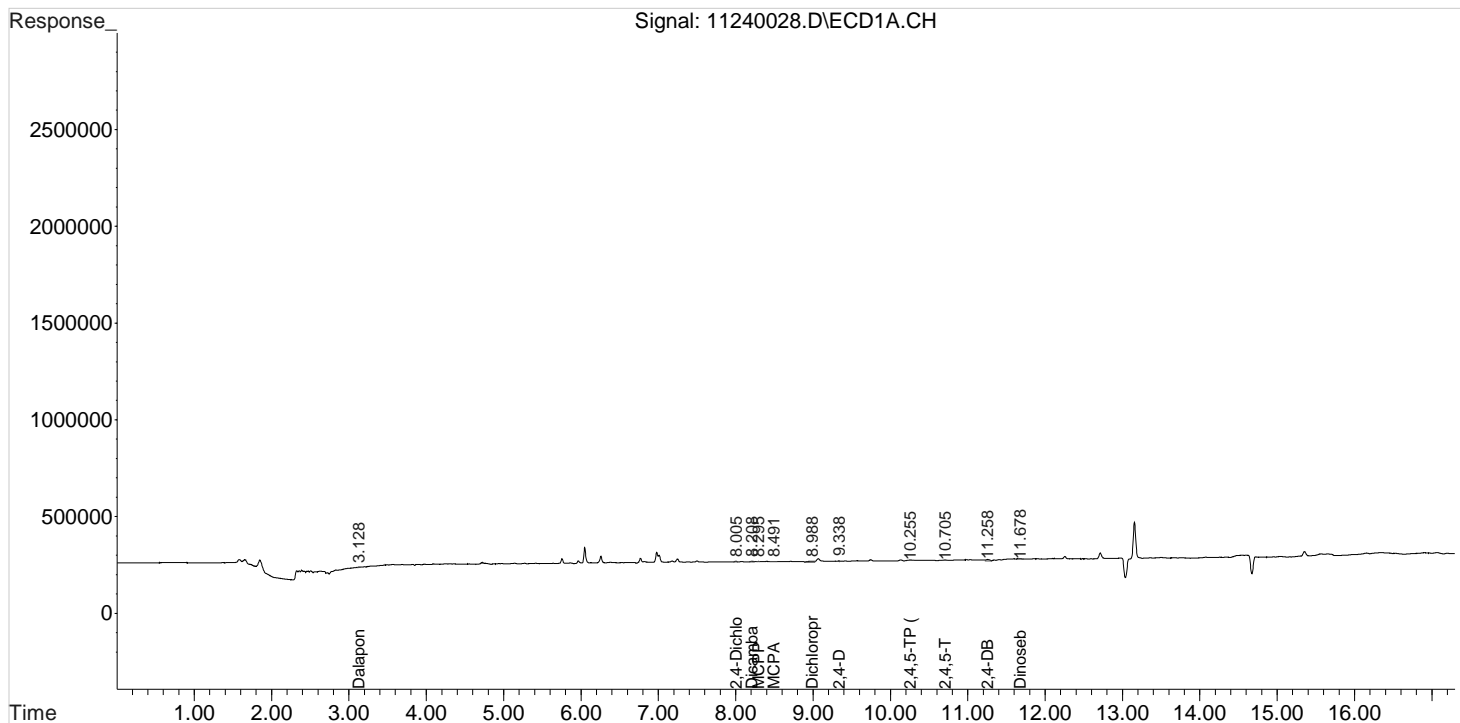
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\112420\11240028.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 1:10 am
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:48:36 2020
Quant Results File: 102120_8151.RES

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240040.D\
Lab ID: KQ2018825-08
RunType: CCB
Matrix: Sediment

Date Acquired: 11/25/20 05:45:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240040.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 05:45:00	Vial: 8
Run Type: CCB	Dilution: 1
Lab ID: KQ2018825-08	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.02}	7.83 ^{+0.01}	6146	42402	0.338	1.002				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	6650	23244	0.071	0.115	0.12U	0.19U	2.4 U	Y
2,4-D	0.00	9.03 ^{-0.03}	0	122356	0.000	2.390	0U	4.0U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240040.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 5:45 am Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 09:55:55 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.001	7.827	6146	42402	0.338	1.002 #
Target Compounds						
1) m Dalapon	0.000	2.900f	0	60151	N.D. d	1.245
3) m Dicamba	8.207	7.920	7992	21156	0.114	0.143
4) m MCPP	8.294	8.110	2085	8767	553.644	N.D. #
5) m MCPA	8.494f	8.367	1009	9188	17.232	N.D. #
6) m Dichloroprop	8.984	8.754	17246	6496	0.925	0.156 #
7) m 2,4-D	0.000	9.034	0	122356	N.D.	2.390 #
8) m 2,4,5-TP ...	10.254	10.130	6650	23244	0.071m	0.115 #
9) m 2,4,5-T	10.697	10.540	4645	20281	0.056	0.106 #
10) m 2,4-DB	11.247	11.200	34646	7158	3.377	0.247 #
11) m Dinoseb	11.671	11.317	5619	17416	0.091	0.127 #

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

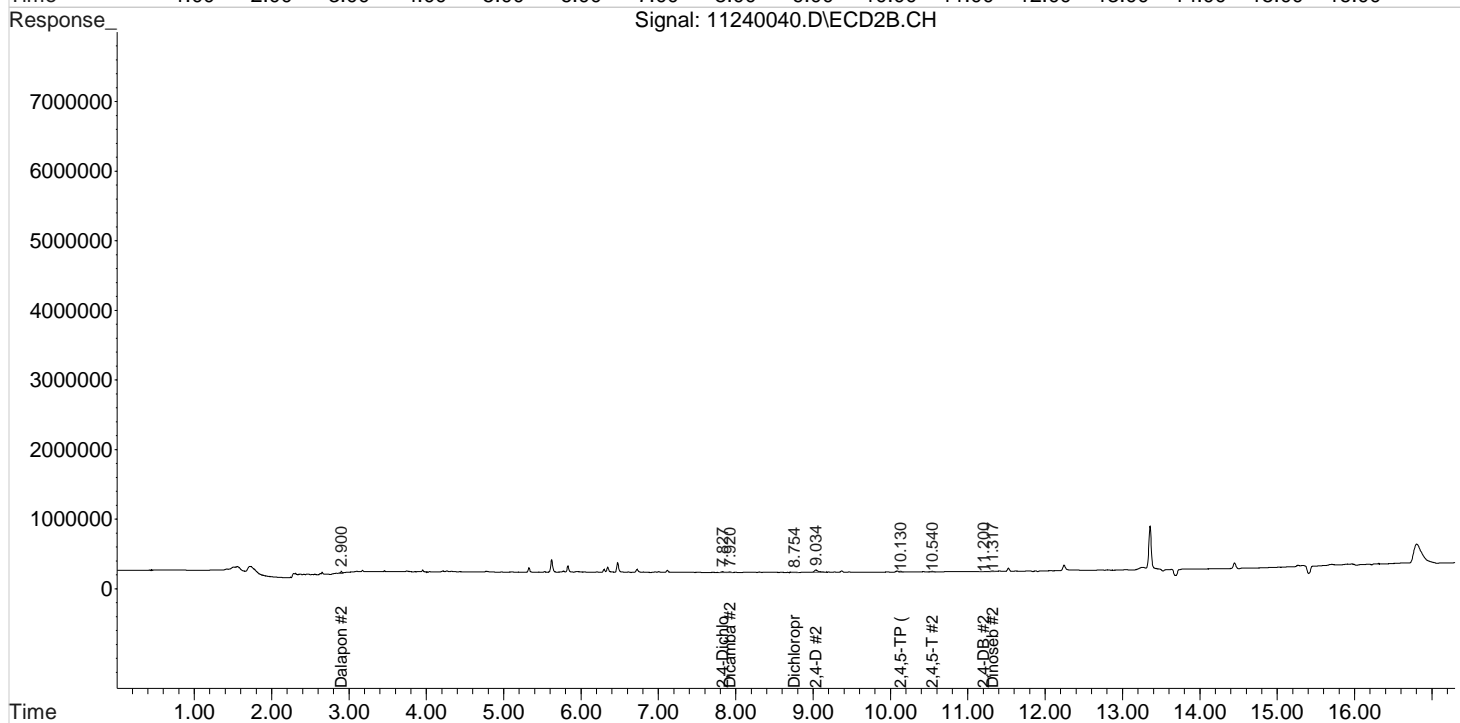
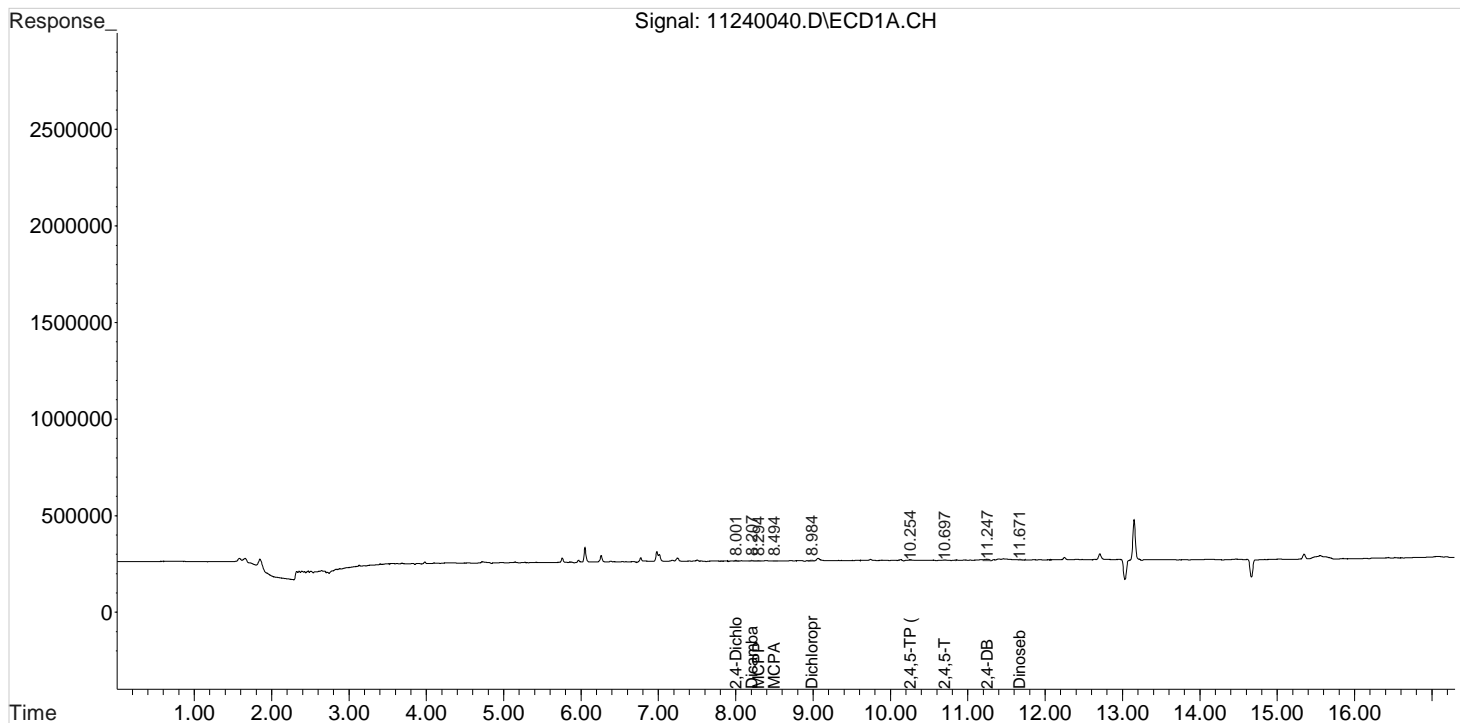
Data File : J:\gc24\data\112420\11240040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 5:45 am
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:55:55 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

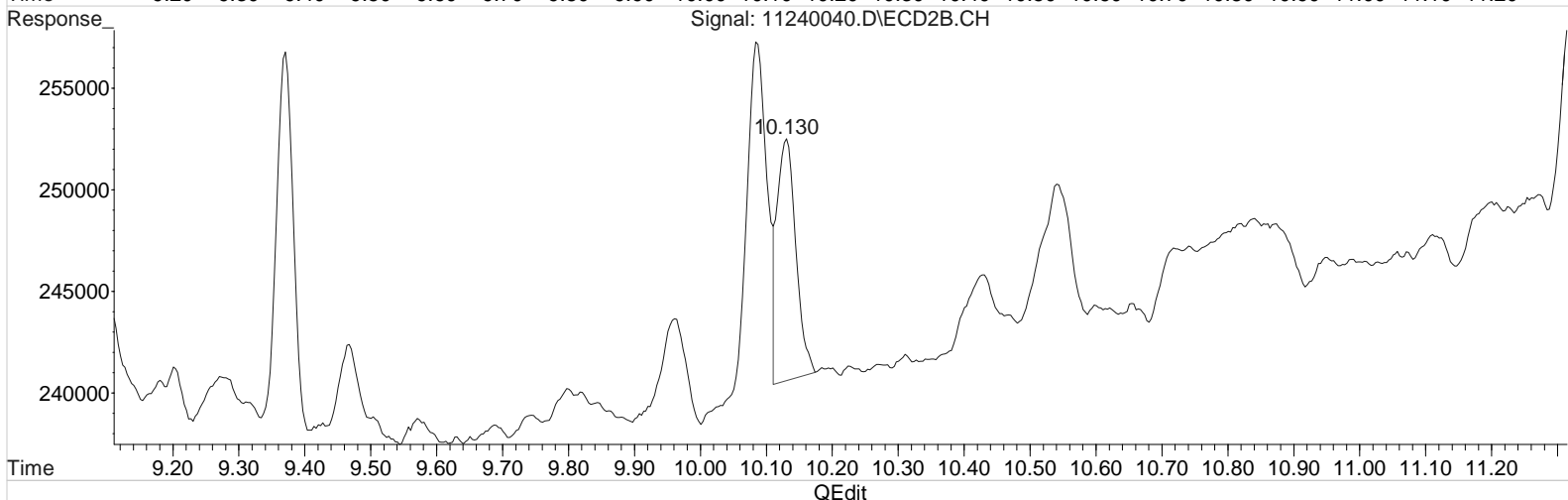
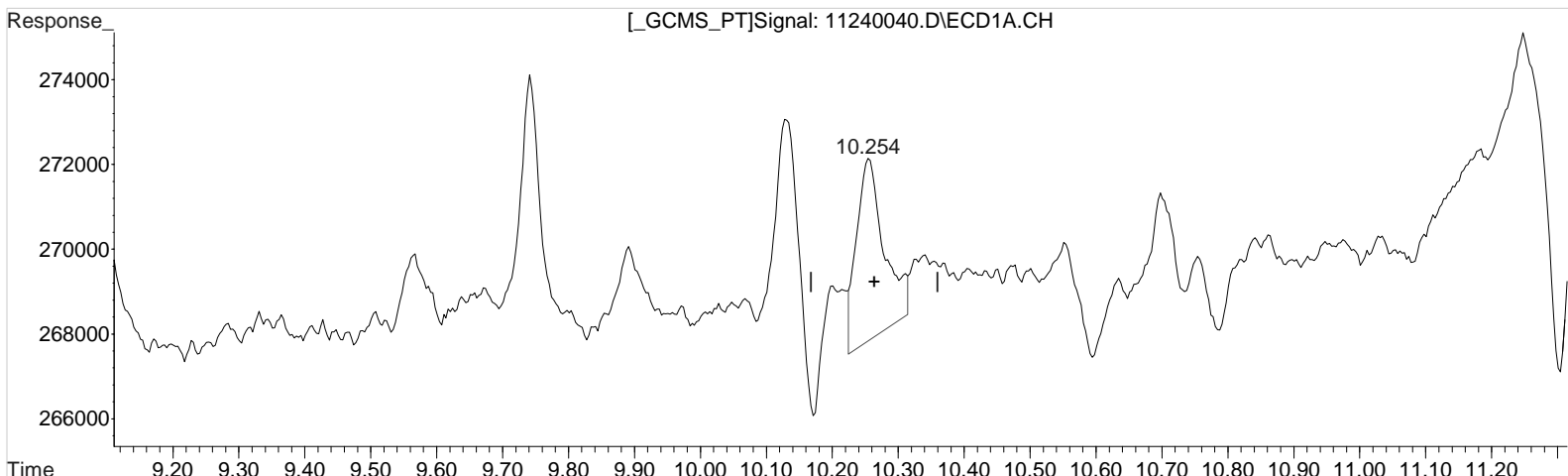
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\112420\11240040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 5:45 am Operator: UA
Sample : IB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:55:34 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)

10.254min 0.133 ppb

response 12482

Manual Integration:

Before

11/25/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.115 ppb

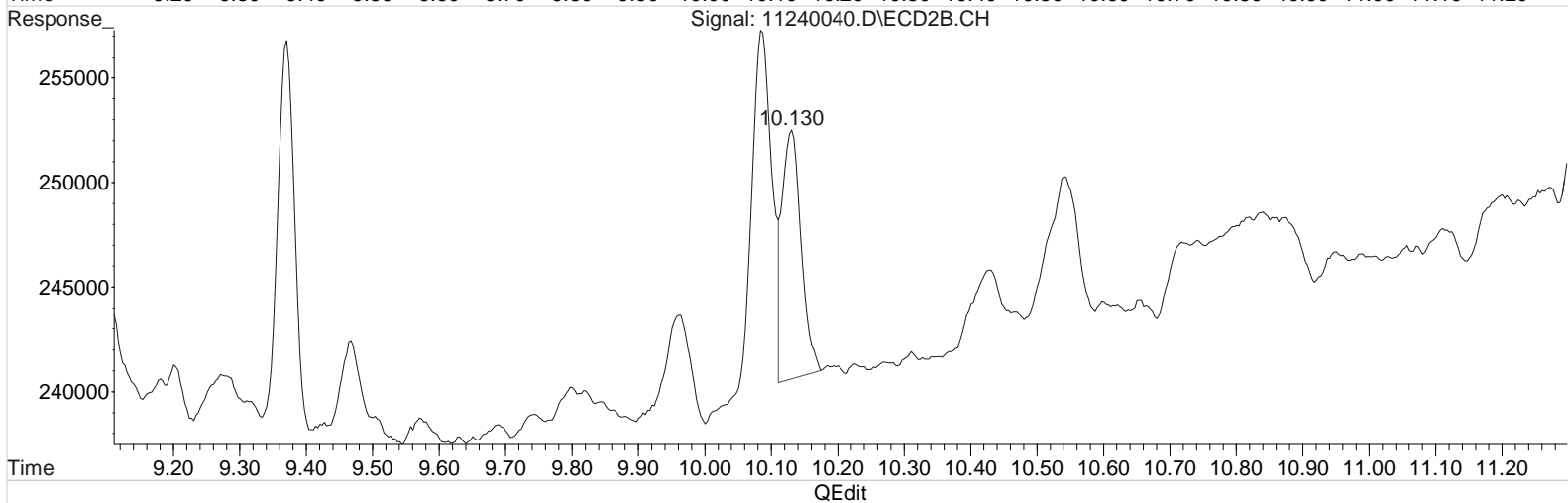
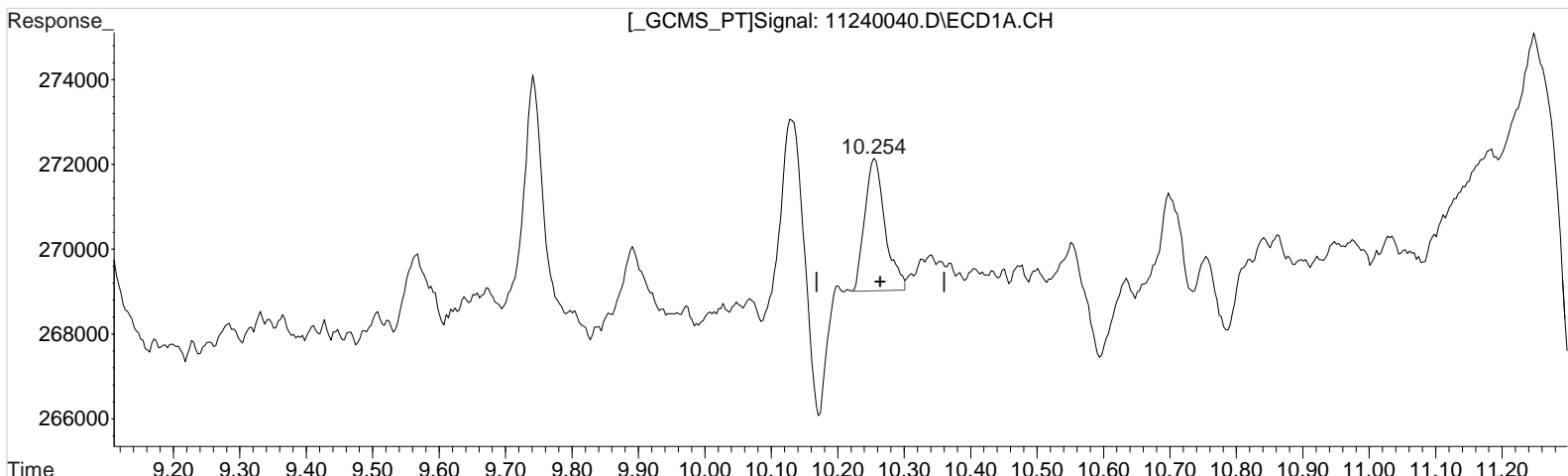
response 23244

Data File : J:\gc24\data\112420\11240040.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 5:45 am
Sample : IB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 09:55:34 2020
Quant Results File: 102120_8151.RES

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2
Signal #1 Info : 0.25 mm
Signal #2 Phase: ZB-XLB-HT
Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)

10.254min 0.071 ppb m
response 6650

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.115 ppb
response 23244

Manual Integration:

After

Baseline/Shoulder

11/25/20

Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240046.D\
Lab ID: KQ2018825-10
RunType: CCB
Matrix: Sediment

Date Acquired: 11/25/20 08:02:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240046.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 08:02:00	Vial: 10
Run Type: CCB	Dilution: 1
Lab ID: KQ2018825-10	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	% Rec	% Rec Criteria	Rpt?
DCAA	8.00 ^{+0.02}	7.83 ^{+0.01}	6504	47841	0.357	1.131				26 - 127	Y

Target Compounds

Final Conc.Units: ug/Kg

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Primary Conc	Rpt?
2,4,5-TP	10.25	10.13	6534	25372	0.070	0.125	0.12U	0.21U	2.4 U	Y
2,4-D	9.33 ^{+0.02}	9.04 ^{-0.02}	1635	127792	0.077	2.496	0.13U	4.2U	7.7 U	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240046.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 8:02 am Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 10:03:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.002	7.829	6504	47841	0.357	1.131 #
Target Compounds						
1) m Dalapon	3.132	2.902f	46009	27297	1.897	0.565 #
3) m Dicamba	8.206	7.922	7343	19386	0.105	0.131
4) m MCPP	8.296	8.119	2180	7283	555.688	N.D. #
5) m MCPA	8.579	8.365	1020	9320	17.420	N.D. #
6) m Dichloroprop	8.966	8.755	2268	5603	0.122	0.134
7) m 2,4-D	9.332	9.035	1635	127792	0.077	2.496 #
8) m 2,4,5-TP ...	10.252	10.129	6534	25372	0.070	0.125 #
9) m 2,4,5-T	10.699	10.542	4457	19859	0.054	0.104 #
10) m 2,4-DB	11.252	11.185	27195	6690	2.651	0.231 #
11) m Dinoseb	11.666	11.315	9040	21616	0.146	0.158

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

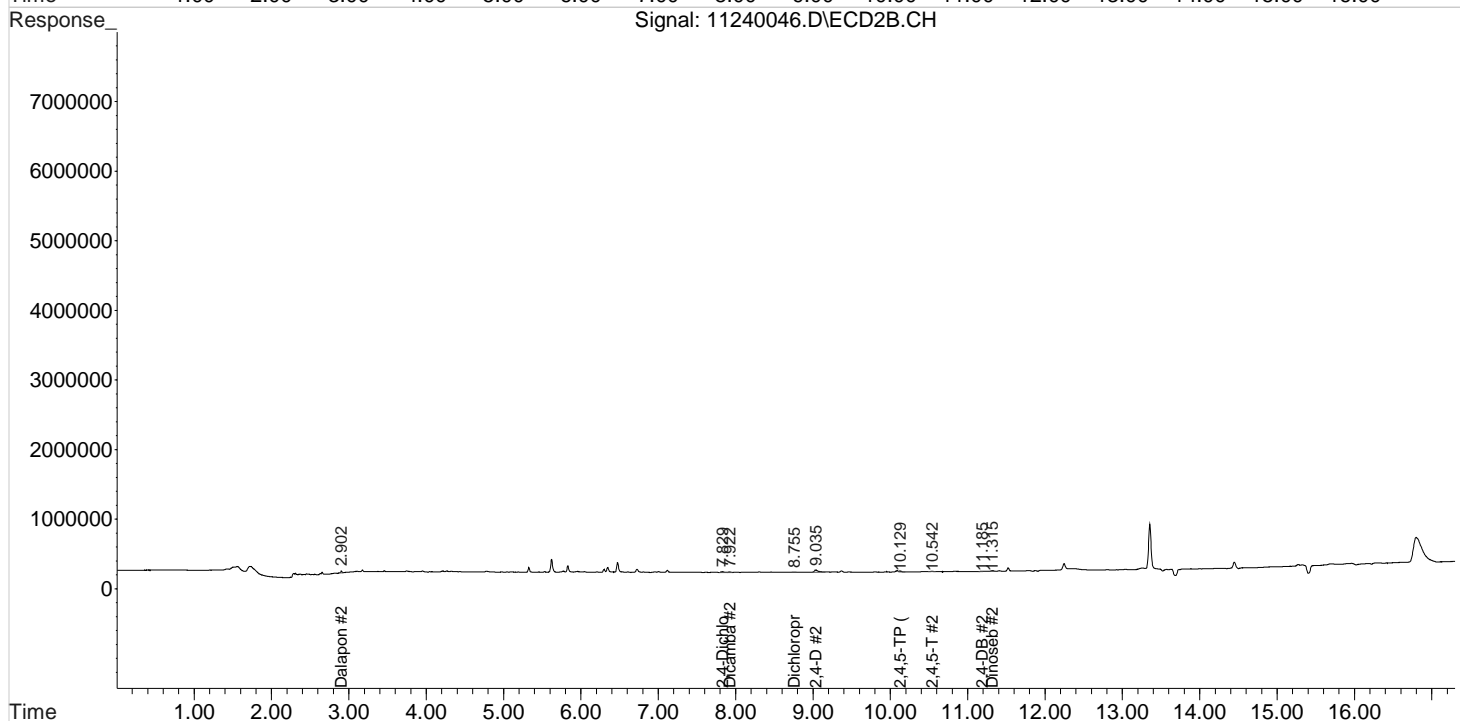
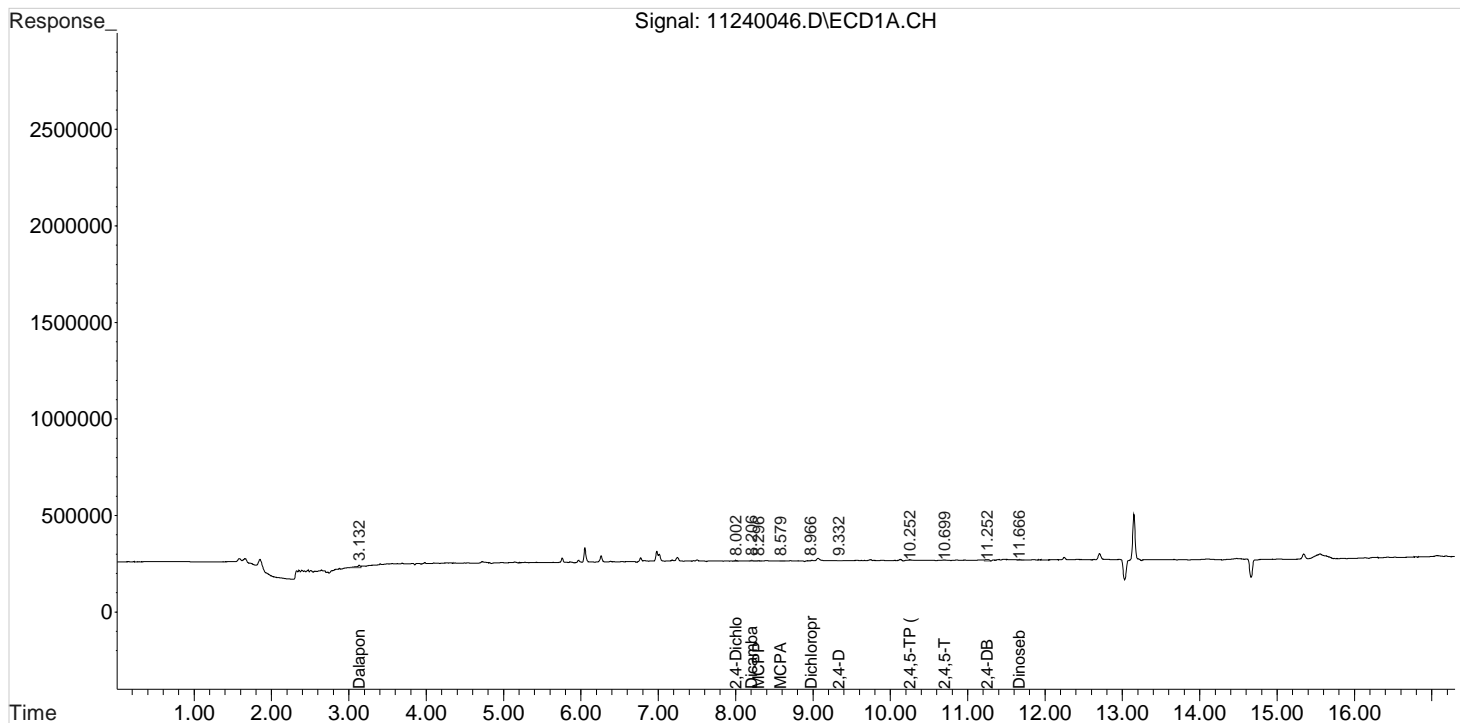
Data File : J:\gc24\data\112420\11240046.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 8:02 am
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 10:03:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240003.D\
Lab ID: KQ2018825-01
RunType: CCV
Matrix: Sediment

Date Acquired: 11/24/20 15:40:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240003.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 15:40:00	Vial: 1
Run Type: CCV	Dilution: 1
Lab ID: KQ2018825-01	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		% Rec		Rpt?
					Conc 1	Conc 2	1	2	
DCAA	7.99	7.82	1679913	4494611	92.320	106.261			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution		Final		Rpt?
					Conc 1	Conc 2	Conc 1	Conc 2	
2,4,5-TP	10.26	10.14	8337836	22241803	89.002	109.567	89.0	110	Y
2,4-D	9.32	9.07	1836587	5289382	86.468	103.311	86.5	103	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240003.D Vial: 2
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 3:40 pm Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 24 14:55:18 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.989	7.819	1679913	4494611	92.320	106.261
Target Compounds						
1) m Dalapon	3.123	2.876	2527593	5294085	104.194	109.580
3) m Dicamba	8.209	7.922	6614198	16602056	94.759	112.015
4) m MCPP	8.296	8.112	415252	1993123	9444.656	12356.484 #
5) m MCPA	8.559	8.359	559169	2687257	9549.870	12324.015 #
6) m Dichloroprop	8.963	8.759	1683418	4639956	90.274	111.230
7) m 2,4-D	9.316	9.066	1836587	5289382	86.468	103.311
8) m 2,4,5-TP ...	10.259	10.136	8337836	22241803	89.002	109.567
9) m 2,4,5-T	10.703	10.539	6456041	17423304	78.246	91.047
10) m 2,4-DB	11.286	11.172	778422	2398522	75.874	82.662
11) m Dinoseb	11.683	11.322	5049158	13089611	81.614	95.714

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

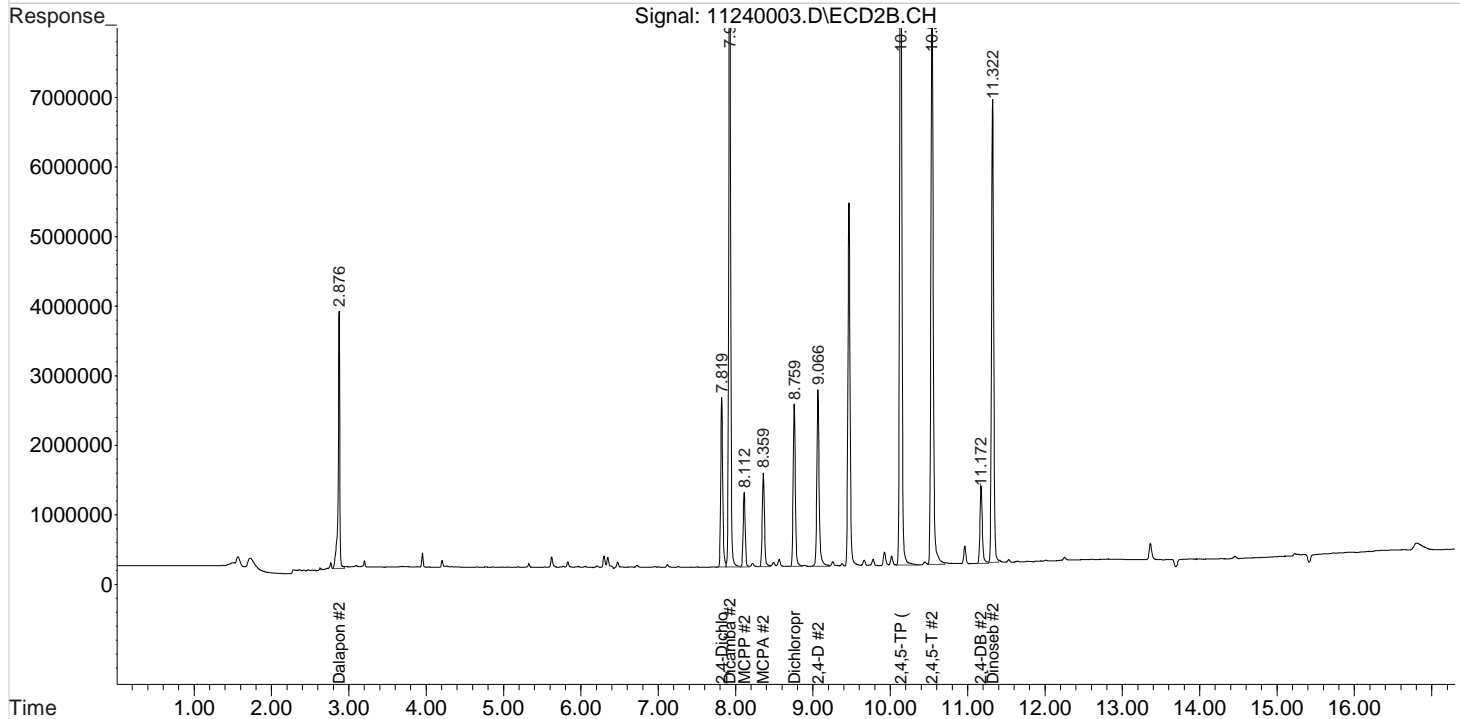
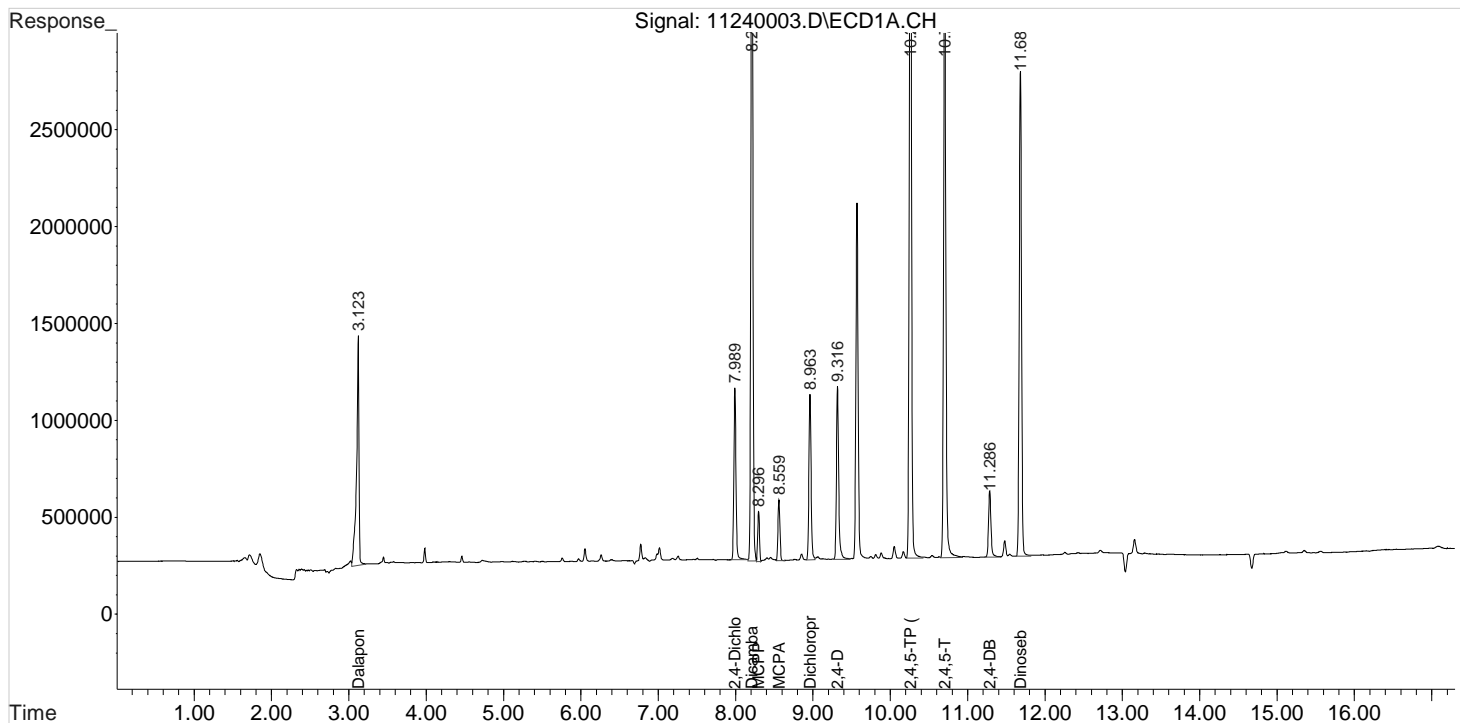
Data File : J:\gc24\data\112420\11240003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 3:40 pm
Sample : PENTA2-14N 100PB
Misc :

Vial: 2
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 24 14:55:18 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240015.D\
Lab ID: KQ2018825-03
RunType: CCV
Matrix: Sediment

Date Acquired: 11/24/20 20:14:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240015.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 20:14:00	Vial: 3
Run Type: CCV	Dilution: 1
Lab ID: KQ2018825-03	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.82	1666223	4610634	91.568	109.004			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.25	10.13	8350459	23006524	89.137	113.334	89.1	113	Y
2,4-D	9.32	9.06	1819366	5411083	85.657	105.688	85.7	106	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240015.D Vial: 2
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 8:14 pm Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:50:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.821	1666223	4610634	91.568	109.004
Target Compounds						
1) m Dalapon	3.121	2.874	2542989	5386051	104.829	111.483
3) m Dicamba	8.211	7.924	6546955	16995400	93.796	114.669
4) m MCPP	8.298	8.114	411306	2063234	9359.742	12841.048 #
5) m MCPA	8.561	8.361	558377	2749214	9536.344	12651.474 #
6) m Dichloroprop	8.961	8.757	1672529	4745731	89.691	113.765 #
7) m 2,4-D	9.318	9.064	1819366	5411083	85.657	105.688
8) m 2,4,5-TP ...	10.254	10.134	8350459	23006524	89.137	113.334 #
9) m 2,4,5-T	10.701	10.537	6479975	18165903	78.536	94.927
10) m 2,4-DB	11.281	11.174	779330	2561448	75.963	88.278
11) m Dinoseb	11.678	11.321	5129923	13895342	82.920	101.606

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

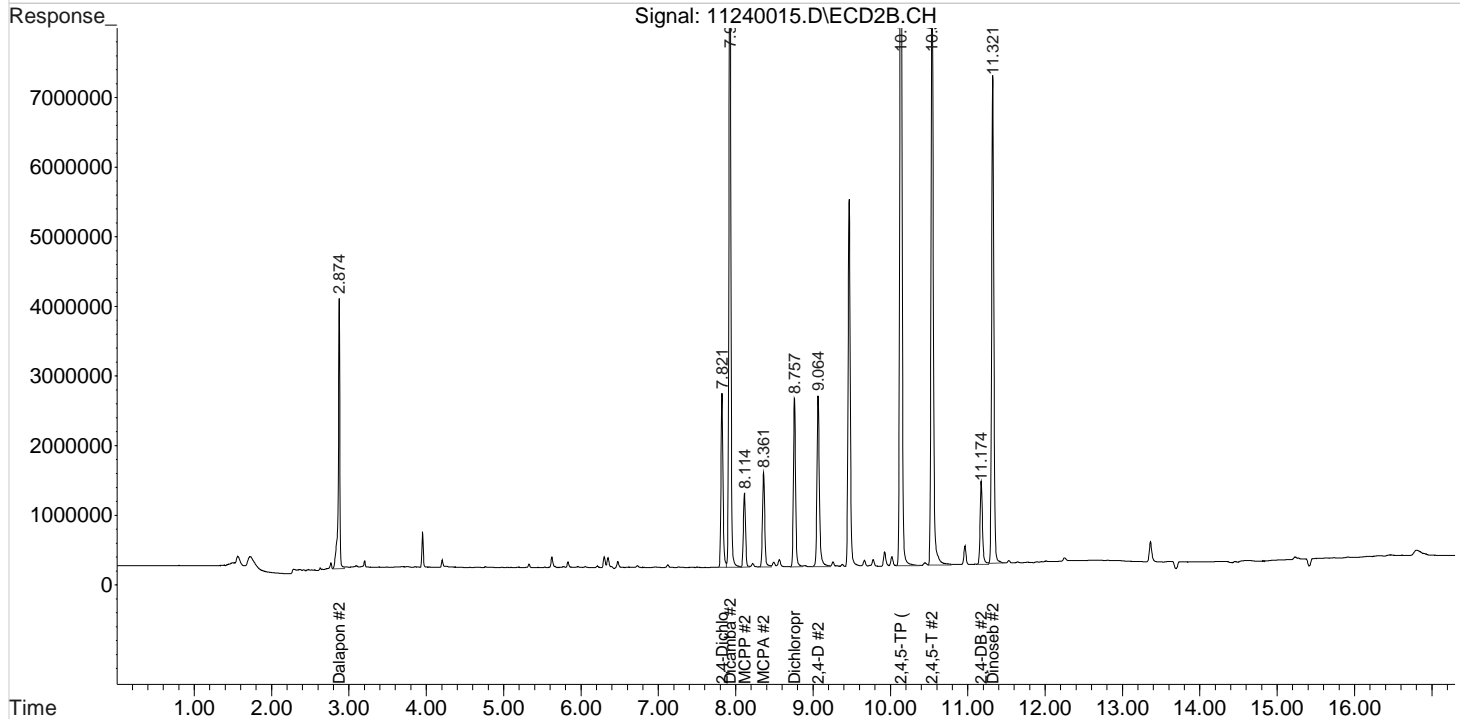
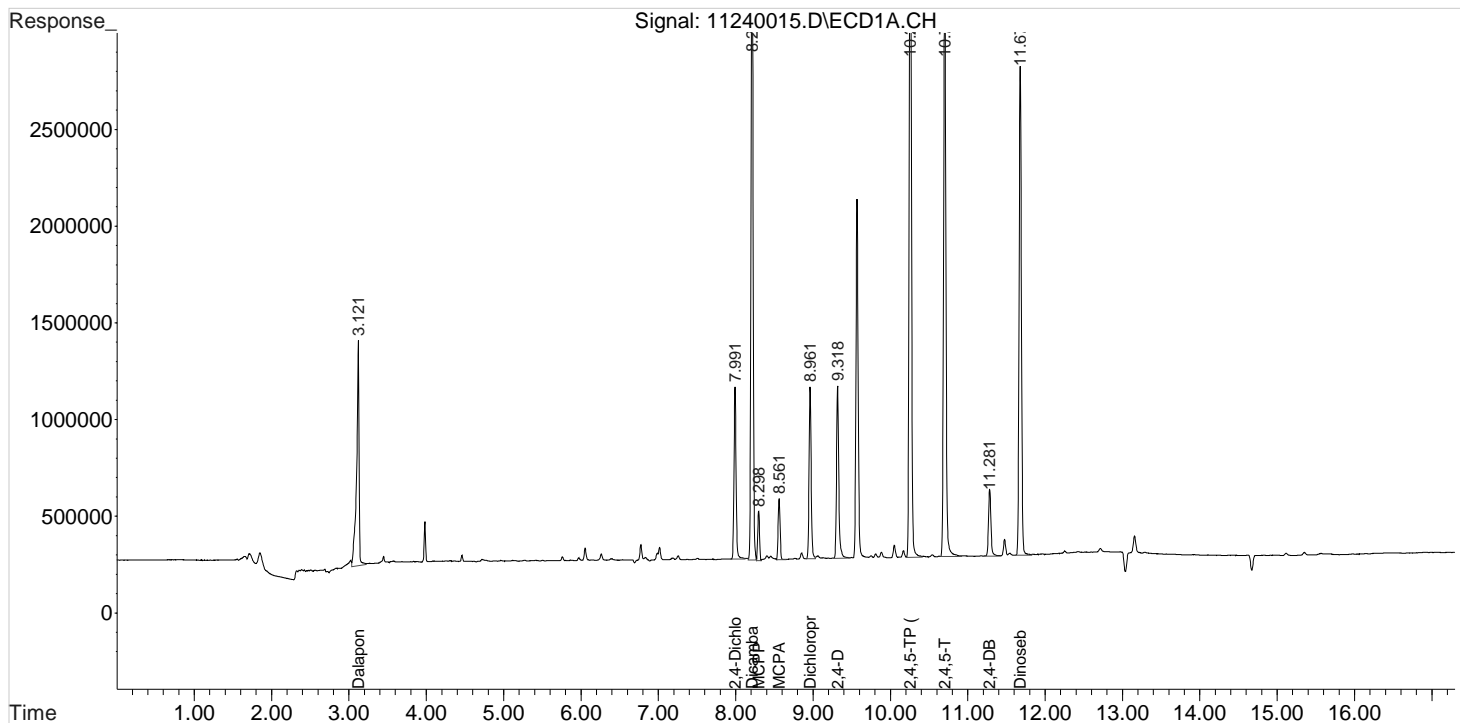
Data File : J:\gc24\data\112420\11240015.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 8:14 pm
Sample : PENTA2-14N 100PB
Misc :

Vial: 2
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:50:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240027.D\
Lab ID: KQ2018825-05
RunType: CCV
Matrix: Sediment

Date Acquired: 11/24/20 00:48:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240027.D\	Instrument: K-GC-24
Acqu Date: 11/24/20 00:48:00	Vial: 5
Run Type: CCV	Dilution: 1
Lab ID: KQ2018825-05	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.99	7.82	1608812	4489678	88.413	106.144			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.25	10.13	7776174	21739411	83.007	107.092	83.0	107	Y
2,4-D	9.31	9.06	1690937	5123218	79.610	100.066	79.6	100	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

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Data File : J:\gc24\data\112420\11240027.D Vial: 2
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 24 Nov 2020 12:48 am Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:50:59 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
System Monitoring Compounds						
2) s 2,4-Dichl...	7.987	7.816	1608812	4489678	88.413	106.144
Target Compounds						
1) m Dalapon	3.120	2.873	2377845	5379962	98.021	111.357
3) m Dicamba	8.207	7.920	6258452	16529951	89.663	111.528
4) m MCPP	8.290	8.106	399323	1943052	9101.878	12010.424 #
5) m MCPA	8.557	8.353	537642	2626253	9182.217	12001.592 #
6) m Dichloroprop	8.957	8.753	1569030	4550451	84.140	109.084 #
7) m 2,4-D	9.310	9.060	1690937	5123218	79.610	100.066 #
8) m 2,4,5-TP ...	10.253	10.130	7776174	21739411	83.007	107.092 #
9) m 2,4,5-T	10.697	10.533	5914413	16522132	71.682	86.337
10) m 2,4-DB	11.277	11.166	701524	2278913	68.379	78.540
11) m Dinoseb	11.673	11.316	4727282	12861696	76.411	94.048

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

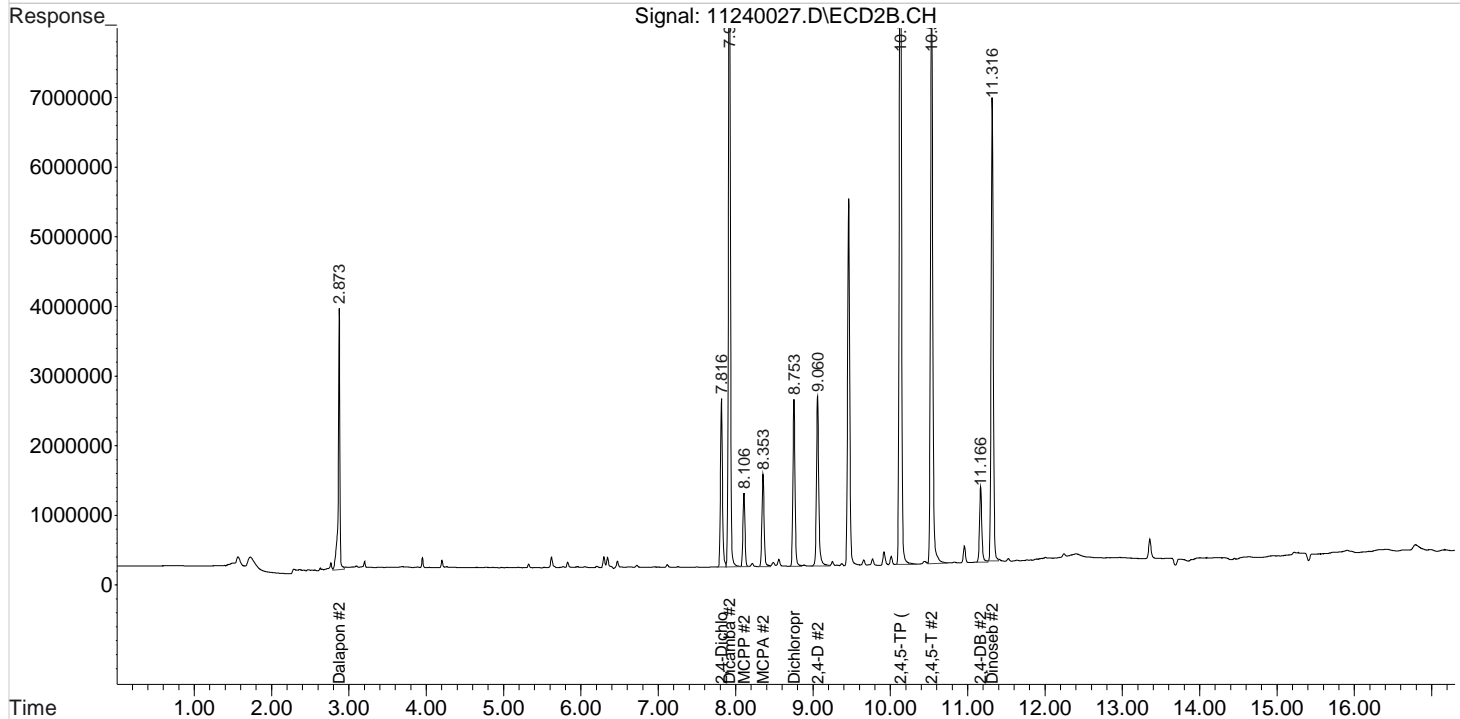
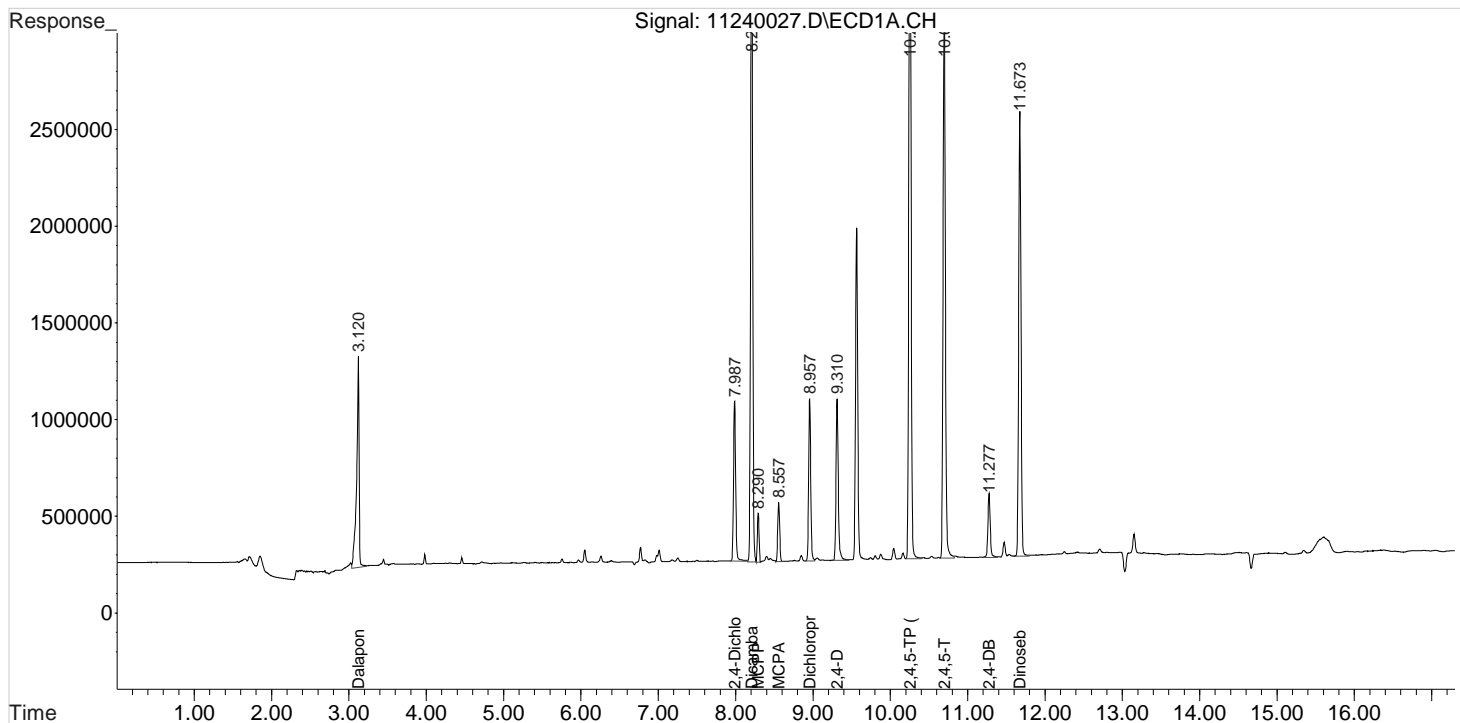
Data File : J:\gc24\data\112420\11240027.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 24 Nov 2020 12:48 am
Sample : PENTA2-14N 100PB
Misc :

Vial: 2
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:50:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240039.D\
Lab ID: KQ2018825-07
RunType: CCV
Matrix: Sediment

Date Acquired: 11/25/20 05:22:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240039.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 05:22:00	Vial: 7
Run Type: CCV	Dilution: 1
Lab ID: KQ2018825-07	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.98	7.82	1606817	4379951	88.303	103.550			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.25	10.13	7900908	21437453	84.338	105.604	84.3	106	Y
2,4-D	9.31	9.06	1702146	4993121	80.138	97.525	80.1	97.5	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240039.D Vial: 2
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 5:22 am Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:51:29 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.983	7.816	1606817	4379951	88.303	103.550
Target Compounds						
1) m Dalapon	3.123	2.872	2386863	5223852	98.393	108.126
3) m Dicamba	8.206	7.919	6285856	16081583	90.055	108.503
4) m MCPP	8.289	8.106	403289	1958983	9187.223	12120.530 #
5) m MCPA	8.556	8.352	538846	2584791	9202.780	11782.454 #
6) m Dichloroprop	8.956	8.752	1603861	4476662	86.008	107.315
7) m 2,4-D	9.313	9.059	1702146	4993121	80.138	97.525
8) m 2,4,5-TP ...	10.253	10.132	7900908	21437453	84.338	105.604 #
9) m 2,4,5-T	10.696	10.536	6013771	16740517	72.886	87.479
10) m 2,4-DB	11.279	11.169	704950	2367967	68.713	81.609
11) m Dinoseb	11.676	11.319	4844986	13121144	78.314	95.945

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

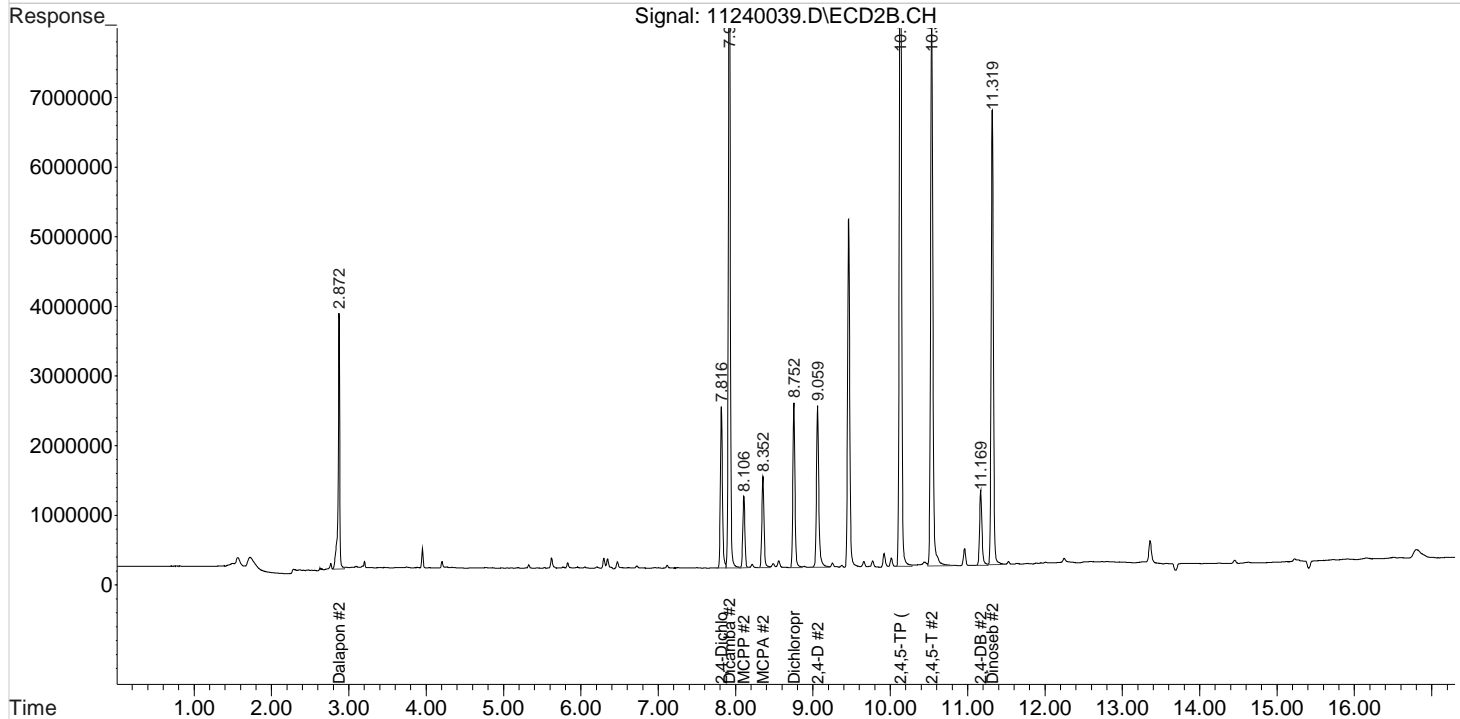
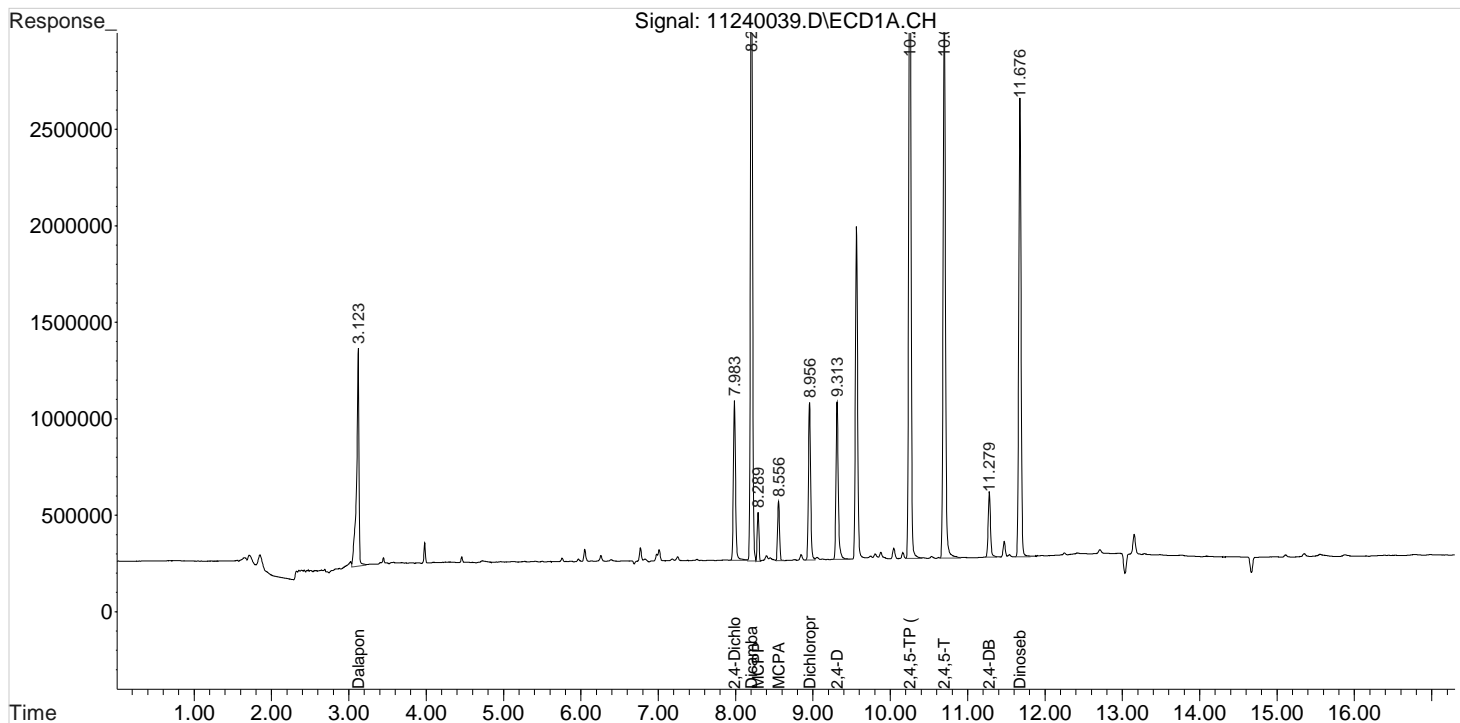
Data File : J:\gc24\data\112420\11240039.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 5:22 am
Sample : PENTA2-14N 100PB
Misc :

Vial: 2
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:51:29 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Validation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240045.D\
Lab ID: KQ2018825-09
RunType: CCV
Matrix: Sediment

Date Acquired: 11/25/20 07:39:00
Batch ID: 704970
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

Secondary Review: _____

Quantitation Report

1st *UA* 11/25/20
2nd *SW* 11/25/20

Data File: J:\gc24\data\112420\11240045.D\	Instrument: K-GC-24
Acqu Date: 11/25/20 07:39:00	Vial: 9
Run Type: CCV	Dilution: 1
Lab ID: KQ2018825-09	Raw Units: ppb

Bottle ID:	Tier: IV	Matrix: Sediment
Prod Code: HERB	Collect Date: 11/4/20	Receive Date: 11/6/20

Analysis Lot: 704970	Prep Lot:	Report Group: KQ2018825
Analysis: 8151A	Prep Method:	
	Prep Date:	

Title: Chlorinated Herbicides by GC	Calibration ID: KC2000566
	Report List ID: 11736

Surrogate Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	% Rec 1	% Rec 2	Rpt?
DCAA	7.98	7.82	1588868	4322228	87.317	102.185			Y

Target Compounds

Parameter Name	RT 1	RT 2	Resp 1	Resp 2	Solution Conc 1	Solution Conc 2	Final Conc 1	Final Conc 2	Rpt?
2,4,5-TP	10.25	10.13	7842626	21023566	83.716	103.565	83.7	104	Y
2,4-D	9.31	9.06	1683279	4900489	79.250	95.715	79.3	95.7	Y

Prep Amount: 30.00 g **Dilution:** 1
Prep Final Amount: 50.00 mL **Basis Factor:** 100.00

U: Undetected at or above MDL
J: Analyte detected above MDL, but below MRL
B: Hit above MRL also found in Method Blank
E: Analyte concentration above high point of ICAL
N: Presumptive evidence of compound

D: Result from dilution
m: Manual integration performed
d: Compound manually deleted
NR: Analyte not reported from this analysis

*: Result fails acceptance criteria
#: Acceptance criteria not applicable
?: Insufficient information to determine acceptance
e: Result >= MRL, but MRL less than low point of ICAL
c: check for co-elution

Printed: 11/25/20 13:19

\\alprews001\starlims\LIMSReps\QuantValidation.rpt

Data File : J:\gc24\data\112420\11240045.D Vial: 2
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 25 Nov 2020 7:39 am Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Nov 25 08:51:53 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.983	7.816	1588868	4322228	87.317	102.185
Target Compounds						
1) m Dalapon	3.123	2.876	2357824	5201012	97.196	107.653
3) m Dicamba	8.203	7.916	6234879	15794525	89.325	106.566
4) m MCPP	8.289	8.106	401880	1916014	9156.902	11823.554 #
5) m MCPA	8.553	8.352	532518	2553822	9094.706	11618.775 #
6) m Dichloroprop	8.953	8.752	1589864	4410380	85.258	105.726
7) m 2,4-D	9.309	9.059	1683279	4900489	79.250	95.715
8) m 2,4,5-TP ...	10.249	10.129	7842626	21023566	83.716	103.565
9) m 2,4,5-T	10.693	10.532	5942813	16208296	72.026	84.697
10) m 2,4-DB	11.276	11.166	723107	2298470	70.482	79.214
11) m Dinoseb	11.669	11.316	4798609	12889217	77.564	94.249

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

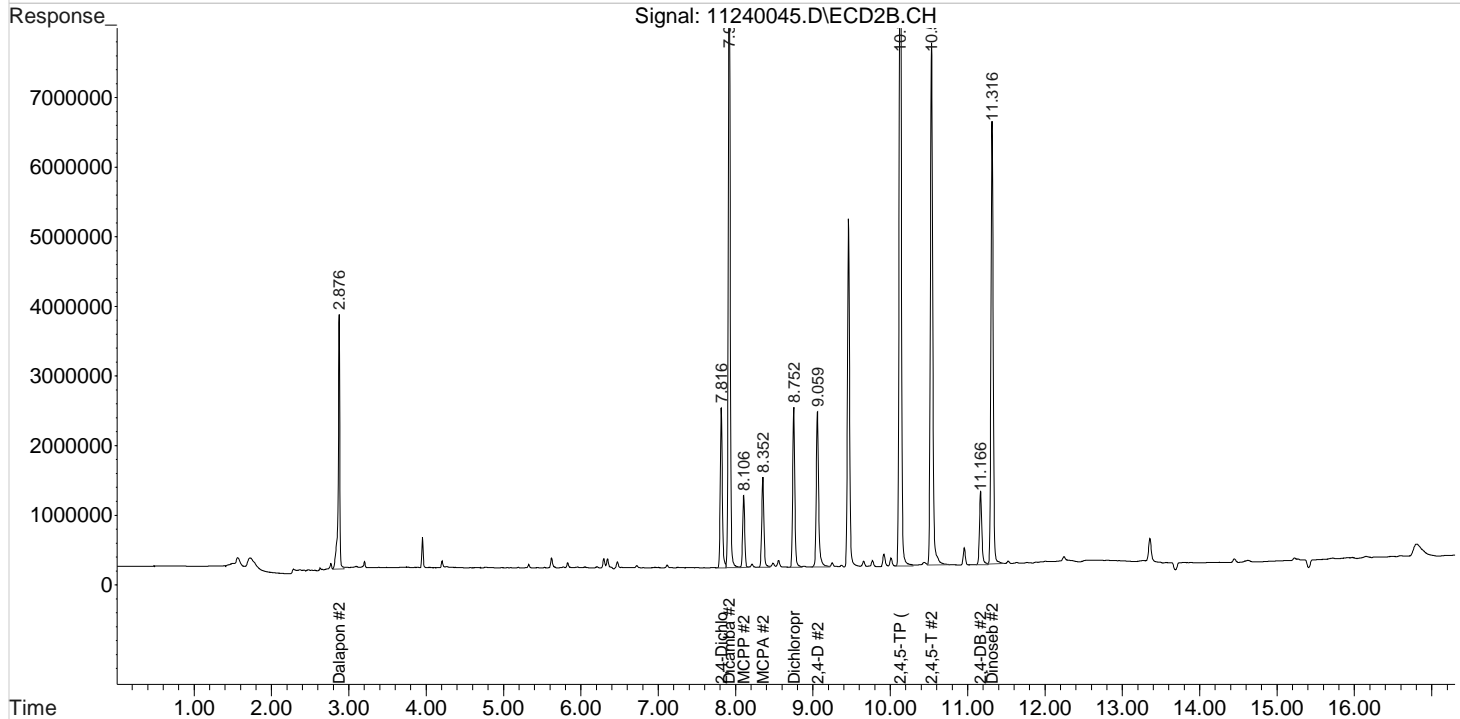
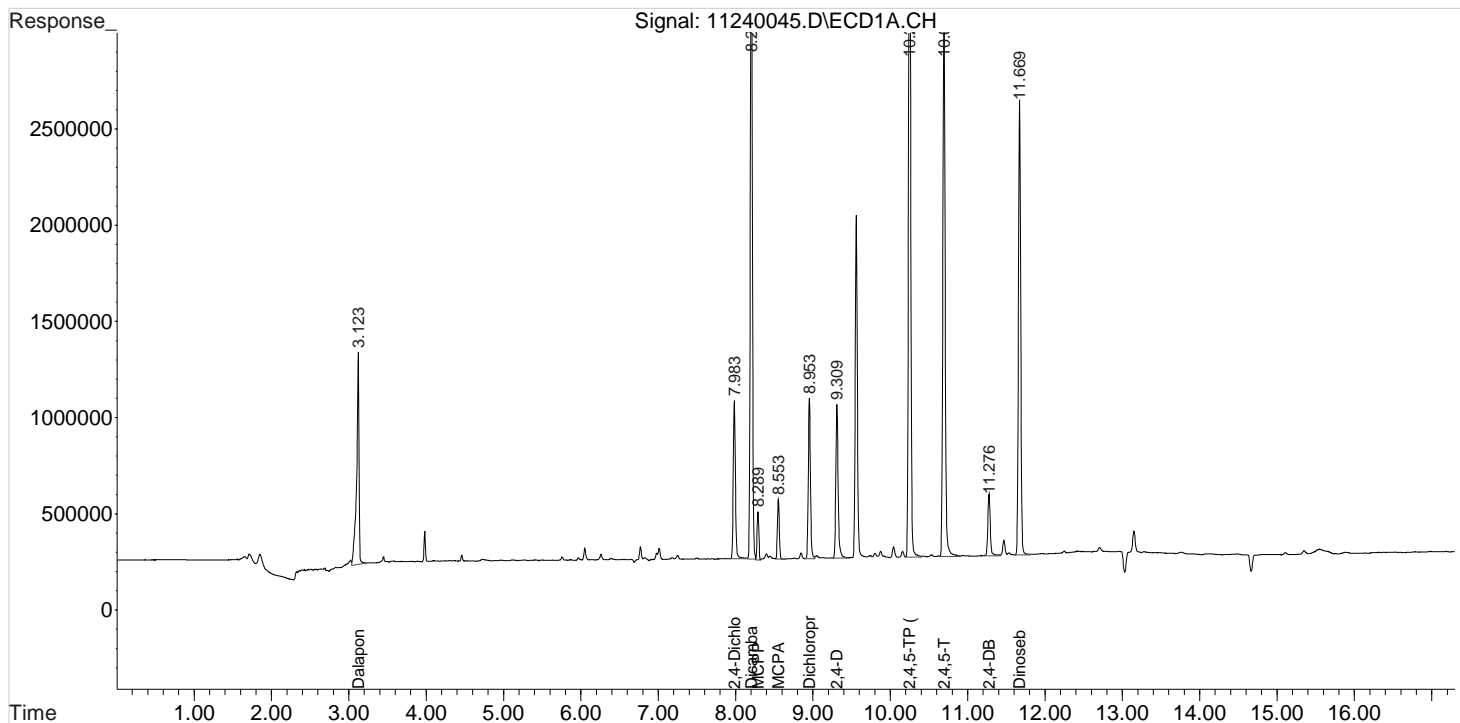
Data File : J:\gc24\data\112420\11240045.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 25 Nov 2020 7:39 am
Sample : PENTA2-14N 100PB
Misc :

Vial: 2
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Nov 25 08:51:53 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Injection Log

Directory: J:\gc24\data\102120

Line	Vial	FileName	Multiplier	SampleName	Misc Info	Injected
1	100	10210001.d	1.	CCV PRIMER		21 Oct 2020 12:34
2	100	10210002.d	1.	CCV PRIMER		21 Oct 2020 12:58
3	1	10210003.d	1.	IB		Unrecognized:Un
4	3	10210004.d	1.	PENTA2-14K 10PPB		Unrecognized:Un
5	4	10210005.d	1.	PENTA2-14L 25PPB		Unrecognized:Un
6	5	10210006.d	1.	PENTA2-14M 75PPB		Unrecognized:Un
7	6	10210007.d	1.	PENTA2-14N 100PB		Unrecognized:Un
8	7	10210008.d	1.	PENTA2-15A 125PB		Unrecognized:Un
9	8	10210009.d	1.	PENTA2-15B 150PB		Unrecognized:Un
10	9	10210010.d	1.	PENTA2-15C 175PB		Unrecognized:Un
11	10	10210011.d	1.	PENTA2-15D 200PB		Unrecognized:Un
12	11	10210012.d	1.	PENTA2-15E ICV 100 PPB		Unrecognized:Un

ICAL: Kc2000566

ALS-Kelso
Initial Calibration Checklist GC

Method: 8151A Herb
ICAL ID or Date: KC2000566
Instrument: GC-24

Primary Secondary

- The new ICAL is saved with a unique ID.
- ICAL was performed continuously (i.e. not interrupted by maintenance event).
- All analytes in blank are $< \frac{1}{2}$ MRL.
- ICAL contains minimum number of concentrations.
- No internal levels excluded for any analytes.
- Retention times updated using a midpoint of the calibration. Secondary reviewer double check peak IDs.
- Calibration files quantitated with new method.
- Check integrations. Primary reviewer must check all integrations electronically. Secondary reviewer will check low point and high point electronically.
- ICAL files added to calibration table.
- The average RF or COD meets method criteria for all analytes.
- ICV is quantitated against new ICAL.
- ICV meets method criteria.
- Linked in ^{LIMS}Stealth to an appropriate method. An appropriate method will be one that contains all analytes that were analyzed.
- All calibration reports included: ICAL SUMMARY, ICAL DETAILED, ICV SUMMARY.
- Enviroquant/Target responses match those in ^{LIMS}Stealth.
- All quant reports and manual integrations initialed and dated.

Data packet should be in the following order: Sequence log, Calibration Review, Stealth ICAL reports, and quant reports.

Primary: [Signature]

Date: 10-21-20

Secondary: [Signature]

Date: 10/22/20

Method Path : J:\gc24\Methods\
 Method File : 102120_8151.M
 Title : 103118_8151.m MJ215 CAL_KC1800
 Last Update : Wed Oct 21 17:31:59 2020
 Response Via : Initial Calibration

Calibration Files

1 =10210004.D 2 =10210005.D =
 4 =10210006.D 5 =10210007.D 6 =10210008.D

Compound	1	2	4	5	6	Avg	%RSD
1) m Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4 7.29
2) s 2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4 8.79
3) m Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4 5.27
4) m MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1 21.41
5) m MCPA	4.567	6.110	6.022	6.133	6.030	6.046	5.855 E1 8.95
6) m Dichloroprop	2.275	2.117	1.795	1.815	1.755	1.752	1.865 E4 11.40
7) m 2,4-D	2.488	2.377	2.075	2.056	2.029	2.025	2.124 E4 9.25
8) m 2,4,5-TP (Sil...	9.752	9.790	9.082	9.310	9.221	9.360	9.368 E4 2.80
9) m 2,4,5-T	8.692	8.723	8.157	8.121	8.142	8.264	8.251 E4 3.64
10) m 2,4-DB	1.110	1.172	1.003	0.994	1.001	1.003	1.026 E4 7.40
11) m Dinoseb	6.933	6.670	6.137	6.031	5.965	6.030	6.187 E4 6.41

Signal #2 Calibration Files

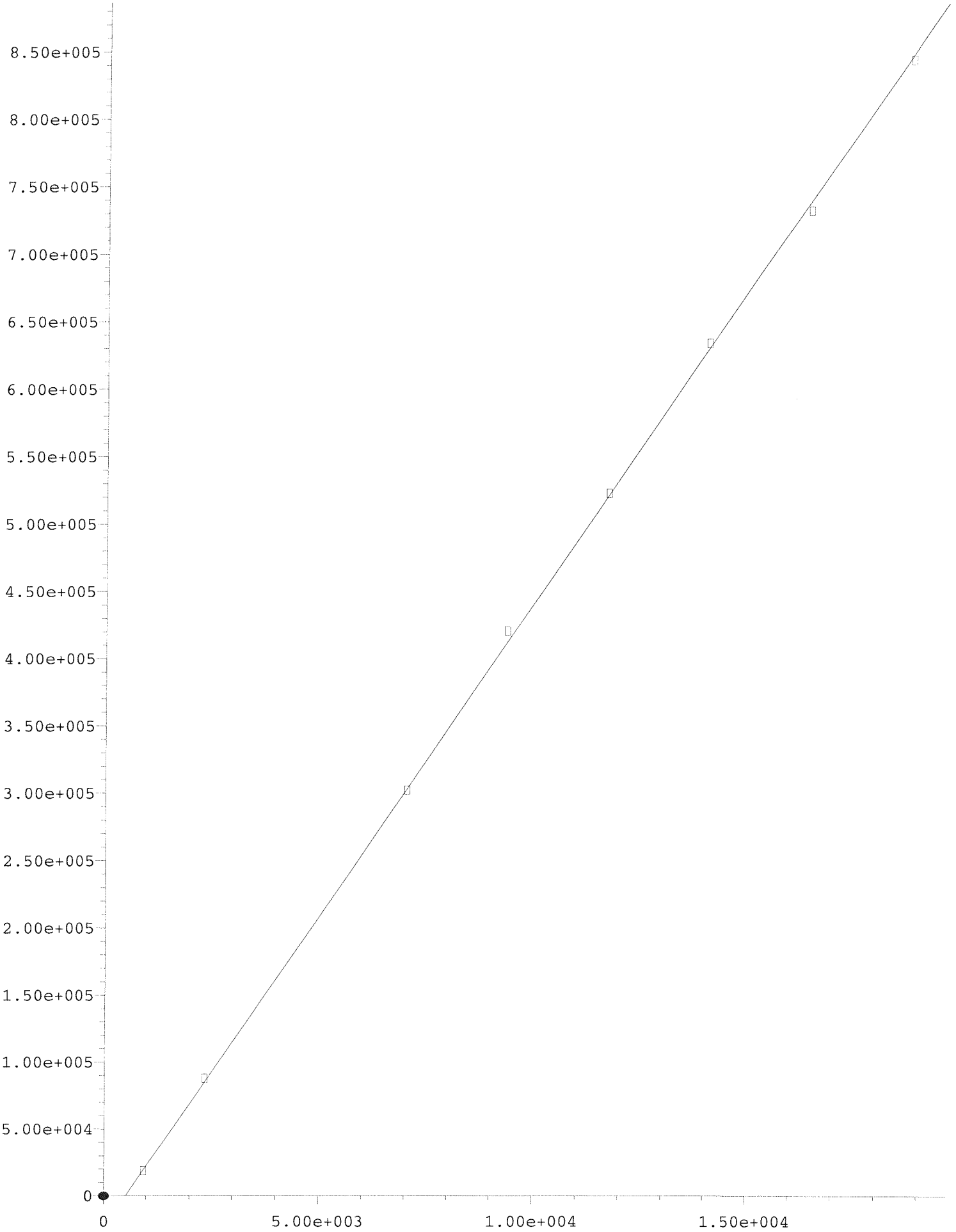
1 =10210004.D 2 =10210005.D =
 4 =10210006.D 5 =10210007.D 6 =10210008.D

Compound	1	2	4	5	6	Avg	%RSD
1) m Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4 4.39
2) s 2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4 15.77
3) m Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5 7.71
4) m MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2 32.32
5) m MCPA	5.322	3.724	2.492	2.323	2.218	2.130	2.789 E2 41.64
6) m Dichloroprop	5.440	4.793	3.993	3.939	3.868	3.809	4.172 E4 14.71
7) m 2,4-D	6.995	5.929	4.845	4.767	4.681	4.616	5.120 E4 17.22
8) m 2,4,5-TP (Sil...	2.358	2.178	1.953	1.956	1.949	1.947	2.030 E5 7.62
9) m 2,4,5-T	2.241	2.074	1.833	1.848	1.821	1.835	1.914 E5 8.20
10) m 2,4-DB	3.572	3.225	2.779	2.756	2.726	2.732	2.902 E4 11.07
11) m Dinoseb	1.678	1.515	1.309	1.301	1.294	1.286	1.368 E5 10.83

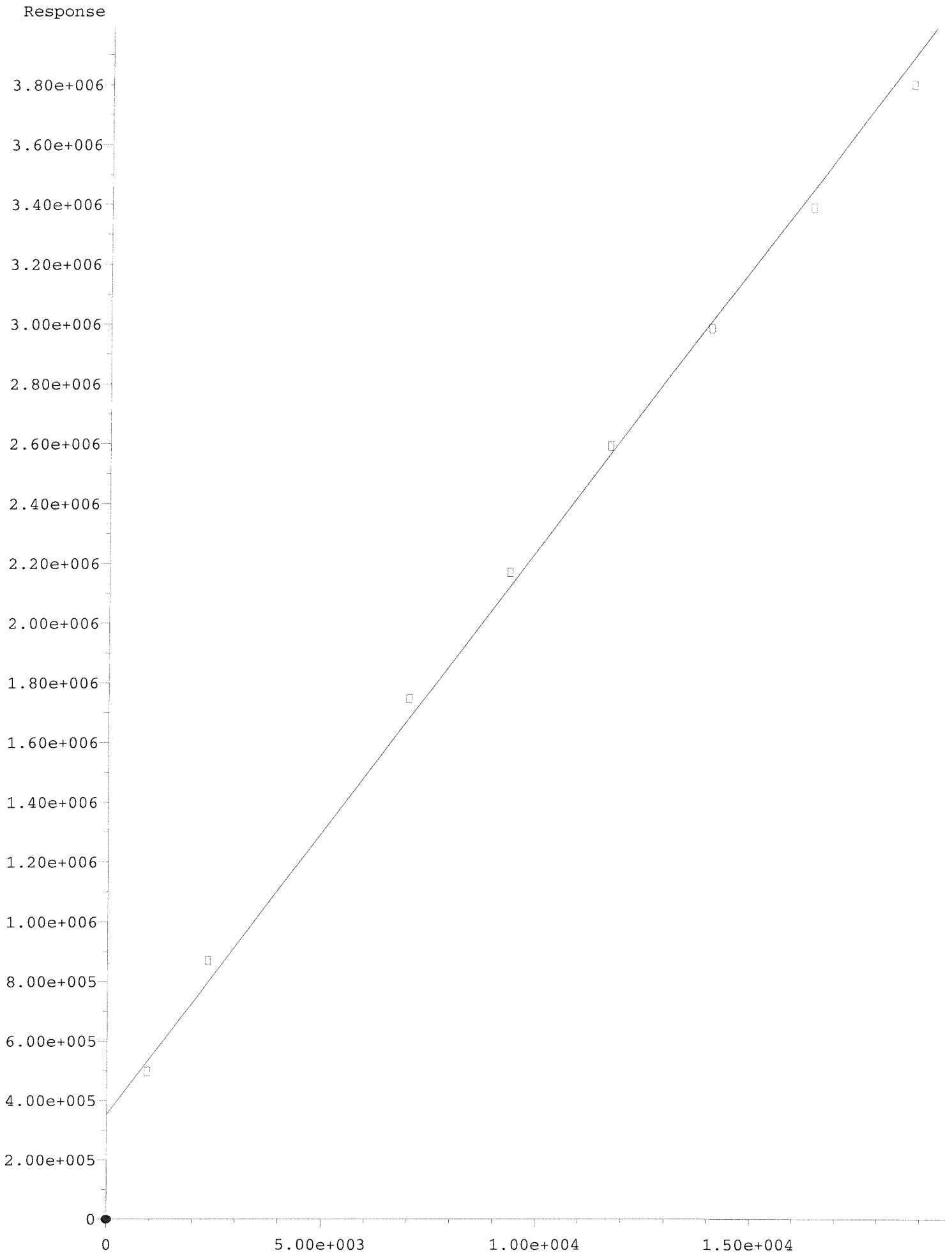
(#) = Out of Range ### Number of calibration levels exceeded format ###

102120_8151.M Wed Oct 21 17:48:58 2020

Response







Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: RTX-CLP2

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D	10/21/2020 16:32

Analyte			Curve Fit			Weighting					
2,4,5-T			Average RF			RSD = 3.638			Average RF = 8.251E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	8.692E4	02	23.700	8.723E4	03	71.100	8.157E4	04	94.800	8.121E4
05	118.490	8.142E4	06	142.190	8.264E4	07	165.890	7.962E4	08	189.590	7.946E4
2,4,5-TP			Average RF			RSD = 2.798			Average RF = 9.368E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.510	9.752E4	02	23.760	9.79E4	03	71.300	9.082E4	04	95.100	9.31E4
05	118.820	9.221E4	06	142.580	9.36E4	07	166.340	9.245E4	08	190.100	9.185E4
2,4-D			Average RF			RSD = 9.253			Average RF = 2.124E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	2.488E4	02	23.510	2.377E4	03	70.500	2.075E4	04	94.000	2.056E4
05	117.540	2.029E4	06	141.050	2.025E4	07	164.560	1.991E4	08	188.060	1.951E4
2,4-DB			Average RF			RSD = 7.4			Average RF = 1.026E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	1.11E4	02	23.670	1.172E4	03	71.000	1.003E4	04	94.700	9.938E3
05	118.330	1.001E4	06	142.000	1.003E4	07	165.670	9.847E3	08	189.340	9.399E3
Dalapon			Average RF			RSD = 7.292			Average RF = 2.426E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	2.671E4	02	22.770	2.733E4	03	68.300	2.254E4	04	91.100	2.374E4
05	113.830	2.344E4	06	136.600	2.385E4	07	159.360	2.357E4	08	182.130	2.287E4
Dicamba			Average RF			RSD = 5.272			Average RF = 6.98E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	7.596E4	02	23.510	7.54E4	03	70.500	6.777E4	04	94.000	6.892E4
05	117.540	6.778E4	06	141.050	6.83E4	07	164.560	6.719E4	08	188.060	6.708E4
Dichlorprop			Average RF			RSD = 11.4			Average RF = 1.865E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	2.275E4	02	23.590	2.117E4	03	70.800	1.795E4	04	94.400	1.815E4
05	117.960	1.755E4	06	141.550	1.752E4	07	165.140	1.724E4	08	188.730	1.684E4
Dinoseb			Average RF			RSD = 6.412			Average RF = 6.187E4		
#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	6.933E4	02	23.620	6.67E4	03	70.900	6.137E4	04	94.500	6.031E4
05	118.100	5.965E4	06	141.720	6.03E4	07	165.340	5.89E4	08	188.960	5.837E4

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: RTX-CLP2

MCPA

Average RF

RSD = 8.948

Average RF = 5.855E1

#	Amount	RF
01	934.770	45.67
05	11683.01	60.3
0		

#	Amount	RF
02	2336.600	61.1
06	14019.61	60.46
0		

#	Amount	RF
03	7010.000	60.22
07	16356.21	59.76
0		

#	Amount	RF
04	9346.000	61.33
08	18692.82	59.57
0		

MCPP

Linear

1/X

R2 =

0.99984741644702

Y=46.47 X+-2.364E+04

#	Amount	RF
01	938.770	20.01
05	11733.10	44.54
0		

#	Amount	RF
02	2346.620	37.4
06	14079.72	45.01
0		

#	Amount	RF
03	7040.000	42.91
07	16426.34	44.58
0		

#	Amount	RF
04	9386.000	44.8
08	18772.96	44.98
0		

2,4-Dichlorophenylacetic Acid

Average RF

RSD = 8.791

Average RF = 1.82E4

#	Amount	RF
01	9.020	2.115E4
05	112.730	1.738E4

#	Amount	RF
02	22.550	2.015E4
06	135.280	1.732E4

#	Amount	RF
03	67.600	1.798E4
07	157.830	1.694E4

#	Amount	RF
04	90.200	1.794E4
08	180.370	1.67E4

Analyte

2,4,5-T

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.480	9.99	5.3	02	23.700	25.1	5.7	03	71.100	70.3	-1.1
04	94.800	93.3	-1.6	05	118.490	117	-1.3	06	142.190	142	0.2
07	165.890	160	-3.5	08	189.590	183	-3.7				

2,4,5-TP

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.510	9.90	4.1	02	23.760	24.8	4.5	03	71.300	69.1	-3.1
04	95.100	94.5	-0.6	05	118.820	117	-1.6	06	142.580	142	-0.1
07	166.340	164	-1.3	08	190.100	186	-2.0				

2,4-D

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.400	11.0	17.2	02	23.510	26.3	11.9	03	70.500	68.9	-2.3
04	94.000	91.0	-3.2	05	117.540	112	-4.5	06	141.050	134	-4.7
07	164.560	154	-6.3	08	188.060	173	-8.2				

2,4-DB

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.470	10.2	8.2	02	23.670	27.0	14.3	03	71.000	69.4	-2.3
04	94.700	91.7	-3.1	05	118.330	116	-2.4	06	142.000	139	-2.3
07	165.670	159	-4.0	08	189.340	173	-8.4				

Dalapon

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.110	10.0	10.1	02	22.770	25.7	12.7	03	68.300	63.5	-7.1
04	91.100	89.1	-2.1	05	113.830	110	-3.4	06	136.600	134	-1.7
07	159.360	155	-2.8	08	182.130	172	-5.7				

Dicamba

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: RTX-CLP2

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.400	10.2	8.8	02	23.510	25.4	8.0	03	70.500	68.5	-2.9
04	94.000	92.8	-1.3	05	117.540	114	-2.9	06	141.050	138	-2.2
07	164.560	158	-3.7	08	188.060	181	-3.9				

Dichlorprop

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.440	11.5	22.0	02	23.590	26.8	13.5	03	70.800	68.2	-3.7
04	94.400	91.9	-2.7	05	117.960	111	-5.9	06	141.550	133	-6.0
07	165.140	153	-7.6	08	188.730	170	-9.7				

Dinoseb

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.450	10.6	12.1	02	23.620	25.5	7.8	03	70.900	70.3	-0.8
04	94.500	92.1	-2.5	05	118.100	114	-3.6	06	141.720	138	-2.5
07	165.340	157	-4.8	08	188.960	178	-5.6				

MCPA

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	934.770	729	-22.0	02	2336.600	2440	4.4	03	7010.000	7210	2.8
04	9346.000	9790	4.7	05	11683.010	12000	3.0	06	14019.610	14500	3.3
07	16356.210	16700	2.1	08	18692.820	19000	1.7				

MCPP

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	938.770	913	-2.8	02	2346.620	2400	2.2	03	7040.000	7010	-0.4
04	9386.000	9560	1.8	05	11733.100	11800	0.2	06	14079.720	14100	0.5
07	16426.340	16300	-1.0	08	18772.960	18700	-0.5				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated		#	Amount	Calculated		#	Amount	Calculated	
		Conc	%D			Conc	%D			Conc	%D
01	9.020	10.5	16.3	02	22.550	25.0	10.7	03	67.600	66.8	-1.2
04	90.200	88.9	-1.4	05	112.730	108	-4.5	06	135.280	129	-4.8
07	157.830	147	-6.9	08	180.370	166	-8.2				

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: ZB-XLB-HT

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: ZB-XLB-HT

#	Lab Code	Sample Name	File Location	Aquisition Date
01	KC2000566-01	PENTA2-14K 10PPB	J:\gc24\data\102120\10210004.D\10210004c.d	10/21/2020 13:46
02	KC2000566-02	PENTA2-14L 25PPB	J:\gc24\data\102120\10210005.D\10210005c.d	10/21/2020 14:09
03	KC2000566-03	PENTA2-14M 75PPB	J:\gc24\data\102120\10210006.D\10210006c.d	10/21/2020 14:33
04	KC2000566-04	PENTA2-14N 100PB	J:\gc24\data\102120\10210007.D\10210007c.d	10/21/2020 14:57
05	KC2000566-05	PENTA2-15A 125PB	J:\gc24\data\102120\10210008.D\10210008c.d	10/21/2020 15:21
06	KC2000566-06	PENTA2-15B 150PB	J:\gc24\data\102120\10210009.D\10210009c.d	10/21/2020 15:44
07	KC2000566-07	PENTA2-15C 175PB	J:\gc24\data\102120\10210010.D\10210010c.d	10/21/2020 16:08
08	KC2000566-08	PENTA2-15D 200PB	J:\gc24\data\102120\10210011.D\10210011c.d	10/21/2020 16:32

Analyte

Curve Fit

Weighting

2,4,5-T

Average RF

RSD = 8.204

Average RF = 1.914E5

#	Amount	RF
01	9.480	2.241E5
05	118.490	1.821E5

#	Amount	RF
02	23.700	2.074E5
06	142.190	1.835E5

#	Amount	RF
03	71.100	1.833E5
07	165.890	1.828E5

#	Amount	RF
04	94.800	1.848E5
08	189.590	1.83E5

2,4,5-TP

Average RF

RSD = 7.62

Average RF = 2.03E5

#	Amount	RF
01	9.510	2.358E5
05	118.820	1.949E5

#	Amount	RF
02	23.760	2.178E5
06	142.580	1.947E5

#	Amount	RF
03	71.300	1.953E5
07	166.340	1.946E5

#	Amount	RF
04	95.100	1.956E5
08	190.100	1.952E5

2,4-D

Average RF

RSD = 17.22

Average RF = 5.12E4

#	Amount	RF
01	9.400	6.995E4
05	117.540	4.681E4

#	Amount	RF
02	23.510	5.929E4
06	141.050	4.616E4

#	Amount	RF
03	70.500	4.845E4
07	164.560	4.575E4

#	Amount	RF
04	94.000	4.767E4
08	188.060	4.551E4

2,4-DB

Average RF

RSD = 11.07

Average RF = 2.902E4

#	Amount	RF
01	9.470	3.572E4
05	118.330	2.726E4

#	Amount	RF
02	23.670	3.225E4
06	142.000	2.732E4

#	Amount	RF
03	71.000	2.779E4
07	165.670	2.706E4

#	Amount	RF
04	94.700	2.756E4
08	189.340	2.717E4

Dalapon

Average RF

RSD = 4.39

Average RF = 4.831E4

#	Amount	RF
01	9.110	5.105E4
05	113.830	4.838E4

#	Amount	RF
02	22.770	5.207E4
06	136.600	4.664E4

#	Amount	RF
03	68.300	4.698E4
07	159.360	4.774E4

#	Amount	RF
04	91.100	4.631E4
08	182.130	4.733E4

Dicamba

Average RF

RSD = 7.713

Average RF = 1.482E5

#	Amount	RF
01	9.400	1.724E5
05	117.540	1.425E5

#	Amount	RF
02	23.510	1.593E5
06	141.050	1.416E5

#	Amount	RF
03	70.500	1.424E5
07	164.560	1.42E5

#	Amount	RF
04	94.000	1.43E5
08	188.060	1.426E5

Dichlorprop

Average RF

RSD = 14.71

Average RF = 4.172E4

#	Amount	RF
01	9.440	5.44E4
05	117.960	3.868E4

#	Amount	RF
02	23.590	4.793E4
06	141.550	3.809E4

#	Amount	RF
03	70.800	3.993E4
07	165.140	3.779E4

#	Amount	RF
04	94.400	3.939E4
08	188.730	3.751E4

Dinoseb

Average RF

RSD = 10.83

Average RF = 1.368E5

#	Amount	RF
01	9.450	1.678E5
05	118.100	1.294E5

#	Amount	RF
02	23.620	1.515E5
06	141.720	1.286E5

#	Amount	RF
03	70.900	1.309E5
07	165.340	1.279E5

#	Amount	RF
04	94.500	1.301E5
08	188.960	1.278E5

Initial Calibration - Detailed Report

Calibration ID: KC2000566

Instrument ID: K-GC-24

Column Name: ZB-XLB-HT

MCPA

			Linear	1/X	R2 = 0.9970434185726530	Y=189.2 X+3.555E5		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	532.2	02	2336.600	372.4	03	7010.000	249.2
05	11683.01	221.8	06	14019.61	213	07	16356.21	207.2
	0			0			0	
						08	9346.000	232.3
							18692.82	203.3
							0	

MCPP

			Linear	1/X	R2 = 0.9944121406118910	Y=144.7 X+2.053E5		
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	324.8	02	2346.620	262.9	03	7040.000	184.7
05	11733.10	164.5	06	14079.72	157.4	07	16426.34	153.2
	0			0			0	
						08	9386.000	172.7
							18772.96	150.1
							0	

2,4-Dichlorophenylacetic Acid

			Average RF	RSD = 15.77	Average RF = 4.23E4			
#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.020	5.587E4	02	22.550	4.943E4	03	67.600	4.041E4
05	112.730	3.892E4	06	135.280	3.822E4	07	157.830	3.814E4
						08	180.370	3.787E4

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.480	11.1	17.1	02	23.700	25.7	8.4	03	71.100	68.1	-4.2
04	94.800	91.6	-3.4	05	118.490	113	-4.8	06	142.190	136	-4.1
07	165.890	159	-4.5	08	189.590	181	-4.4				

2,4,5-TP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.510	11.0	16.2	02	23.760	25.5	7.3	03	71.300	68.6	-3.8
04	95.100	91.6	-3.7	05	118.820	114	-4.0	06	142.580	137	-4.1
07	166.340	159	-4.2	08	190.100	183	-3.8				

2,4-D

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	12.8	36.6	02	23.510	27.2	15.8	03	70.500	66.7	-5.4
04	94.000	87.5	-6.9	05	117.540	107	-8.6	06	141.050	127	-9.8
07	164.560	147	-10.6	08	188.060	167	-11.1				

2,4-DB

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.470	11.7	23.1	02	23.670	26.3	11.2	03	71.000	68.0	-4.2
04	94.700	90.0	-5.0	05	118.330	111	-6.1	06	142.000	134	-5.8
07	165.670	154	-6.8	08	189.340	177	-6.4				

Dalapon

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.110	9.63	5.7	02	22.770	24.5	7.8	03	68.300	66.4	-2.8
04	91.100	87.3	-4.1	05	113.830	114	0.1	06	136.600	132	-3.5
07	159.360	157	-1.2	08	182.130	178	-2.0				

Dicamba

Initial Calibration Verification Summary Report

Calibration ID:	KC2000566	Instrument ID:	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	Column Name:	ZB-XLB-HT

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.768	ppb	4.2	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	92.500	ppb	-2.7	<= 20
2,4-D	KC2000566-09	T	Average RF	94	83.643	ppb	-11.0	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	95.240	ppb	0.6	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	95.982	ppb	5.4	<= 20
Dicamba	KC2000566-09	T	Average RF	94	96.106	ppb	2.2	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	85.597	ppb	-9.3	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	94.362	ppb	-0.1	<= 20
MCPA	KC2000566-09	T	Linear	9346	10030.937	ppb	7.3	<= 20
MCPP	KC2000566-09	T	Linear	9386	10136.279	ppb	8.0	<= 20

Calibration ID:	KC2000566	Instrument ID:	K-GC-24
Datafile ID:	J:\gc24\data\102120\10210012.D	Column Name:	RTX-CLP2

Analyte	Lab Code	Type	Curve Fit	True Value	Calc Conc	Units	Result	Criteria
2,4,5-T	KC2000566-09	T	Average RF	94.80	98.209	ppb	3.6	<= 20
2,4,5-TP	KC2000566-09	T	Average RF	95.10	93.370	ppb	-1.8	<= 20
2,4-D	KC2000566-09	T	Average RF	94	90.423	ppb	-3.8	<= 20
2,4-DB	KC2000566-09	T	Average RF	94.70	93.935	ppb	-0.8	<= 20
Dalapon	KC2000566-09	T	Average RF	91.10	93.788	ppb	3.0	<= 20
Dicamba	KC2000566-09	T	Average RF	94	95.894	ppb	2.0	<= 20
Dichlorprop	KC2000566-09	T	Average RF	94.40	86.318	ppb	-8.6	<= 20
Dinoseb	KC2000566-09	T	Average RF	94.50	95.003	ppb	0.5	<= 20
MCPA	KC2000566-09	T	Average RF	9346	10069.096	ppb	7.7	<= 20
MCPP	KC2000566-09	T	Linear	9386	9672.717	ppb	3.1	<= 20

Initial Calibration - Detailed Report

Calibration ID: KC2000566	Instrument ID: K-GC-24
	Column Name: ZB-XLB-HT

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.400	10.9	16.3	02	23.510	25.3	7.5	03	70.500	67.7	-3.9
04	94.000	90.7	-3.5	05	117.540	113	-3.9	06	141.050	135	-4.5
07	164.560	158	-4.2	08	188.060	181	-3.8				

Dichlorprop

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.440	12.3	30.4	02	23.590	27.1	14.9	03	70.800	67.8	-4.3
04	94.400	89.1	-5.6	05	117.960	109	-7.3	06	141.550	129	-8.7
07	165.140	150	-9.4	08	188.730	170	-10.1				

Dinoseb

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.450	11.6	22.7	02	23.620	26.2	10.8	03	70.900	67.9	-4.2
04	94.500	89.9	-4.8	05	118.100	112	-5.4	06	141.720	133	-6.0
07	165.340	155	-6.5	08	188.960	177	-6.5				

MCPA

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	934.770	750	-19.7	02	2336.600	2720	16.4	03	7010.000	7350	4.9
04	9346.000	9600	2.7	05	11683.010	11800	1.1	06	14019.610	13900	-0.8
07	16356.210	16000	-2.0	08	18692.820	18200	-2.6				

MCPP

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	938.770	689	-26.6	02	2346.620	2840	21.2	03	7040.000	7570	7.5
04	9386.000	9780	4.2	05	11733.100	11900	1.6	06	14079.720	13900	-1.3
07	16426.340	16000	-2.8	08	18772.960	18100	-3.8				

2,4-Dichlorophenylacetic Acid

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D
01	9.020	11.9	32.1	02	22.550	26.4	16.9	03	67.600	64.6	-4.5
04	90.200	84.3	-6.5	05	112.730	104	-8.0	06	135.280	122	-9.7
07	157.830	142	-9.8	08	180.370	161	-10.5				

Data File : J:\gc24\data\102120\10210003.D Vial: 1
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 1:22 pm Operator: UA
 Sample : IB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:46:26 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	8.009	7.829	7280	43923	0.400	1.038 #
Target Compounds						
1) m Dalapon	3.136	2.865	9965	74917	0.411	1.551 #
3) m Dicamba	8.209	7.905	29172	27129	0.418	0.183 #
4) m MCPP	0.000	8.082	0	2122	N.D.	N.D.
5) m MCPA	8.552	8.362	2704	44075	46.181	N.D. #
6) m Dichloroprop	8.939	8.758	23826	6916	1.278	0.166 #
7) m 2,4-D	9.349	0.000	6880	0	0.324	N.D. d#
8) m 2,4,5-TP ...	10.259	10.129	9196	34595	0.098	0.170 #
9) m 2,4,5-T	10.709	10.539	13577	43959	0.165	0.230 #
10) m 2,4-DB	0.000	11.139	0	3230	N.D. d	0.111
11) m Dinoseb	11.682	11.315	11024	25541	0.178	0.187

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

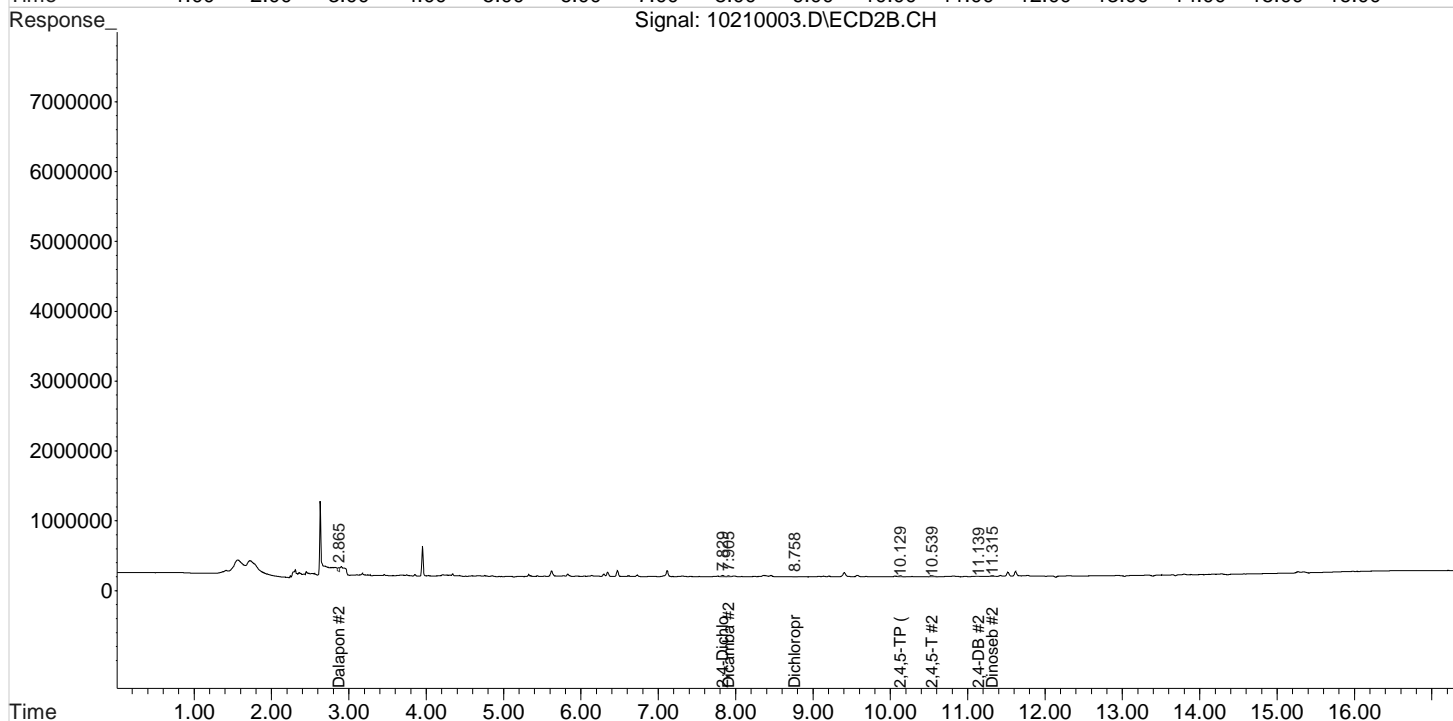
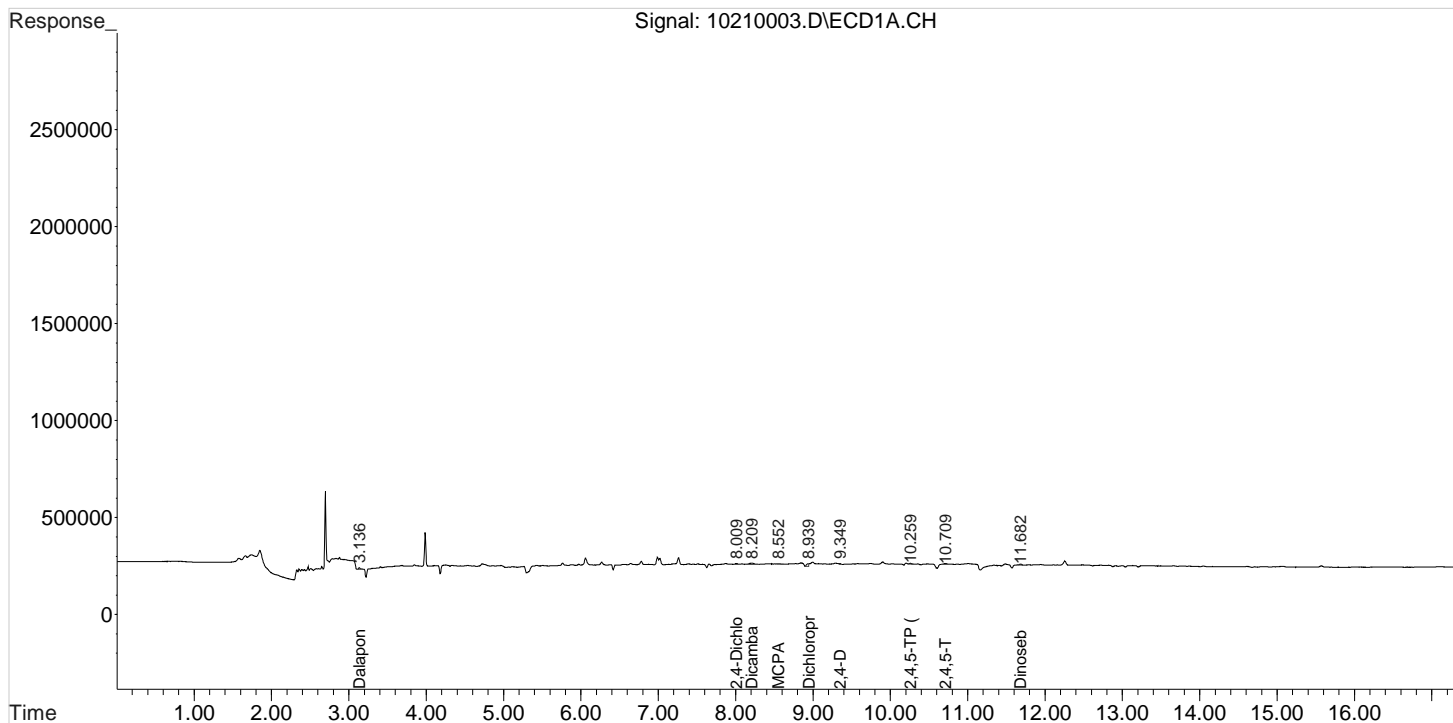
Data File : J:\gc24\data\102120\10210003.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:22 pm
Sample : IB
Misc :

Vial: 1
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:46:26 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210004.D Vial: 3
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 1:46 pm Operator: UA
 Sample : PENTA2-14K 10PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:30:40 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:28:50 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.820	190814	503954	10.736	12.487
Target Compounds						
1) m Dalapon	3.127	2.873	243340	465074	10.178	9.705
3) m Dicamba	8.217	7.920	714045	1620262	10.361m	11.193
4) m MCPP	8.300	8.106	18782	304912	432.162	1713.825 #
5) m MCPA	8.567	8.353	42691	497459	706.888	2049.337 #
6) m Dichloroprop	8.967	8.753	214760	513503	11.890	12.869
7) m 2,4-D	9.330	9.066	233900	657519	11.289	13.552
8) m 2,4,5-TP ...	10.263	10.130	927413	2242551	9.958m	11.308
9) m 2,4,5-T	10.710	10.536	823973	2124220	10.063	11.378
10) m 2,4-DB	11.290	11.173	105152	338252	10.371m	12.055
11) m Dinoseb	11.683	11.316	655169	1585317	10.776m	11.980

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

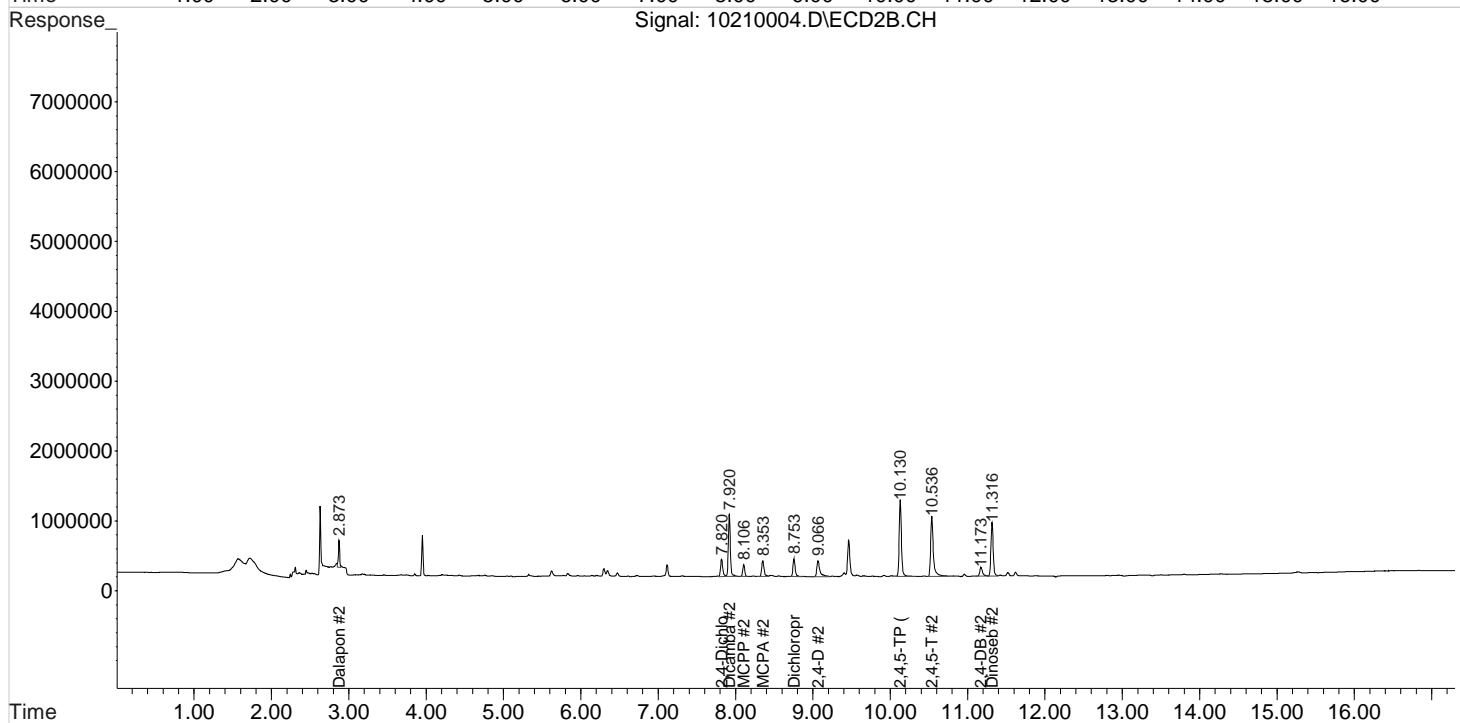
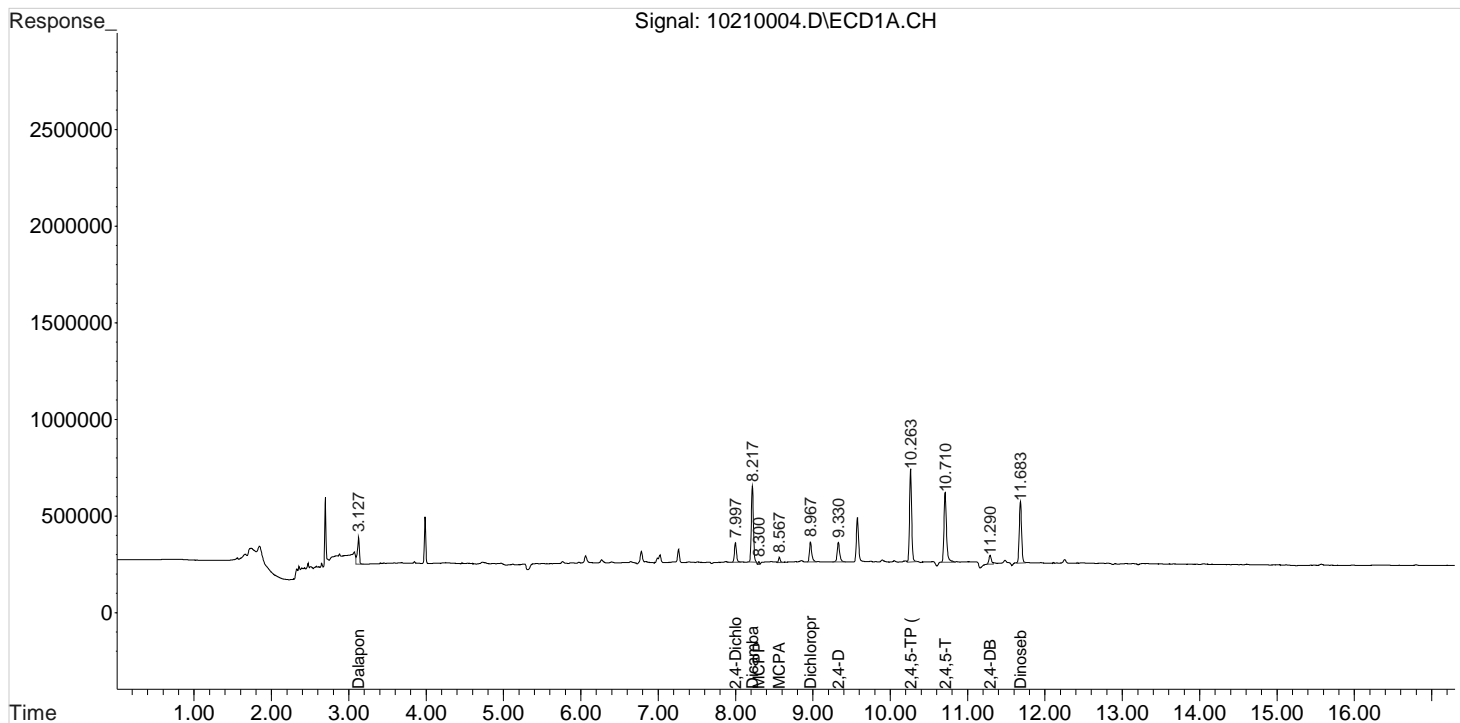
Data File : J:\gc24\data\102120\10210004.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm
Sample : PENTA2-14K 10PPB
Misc :

Vial: 3
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:30:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

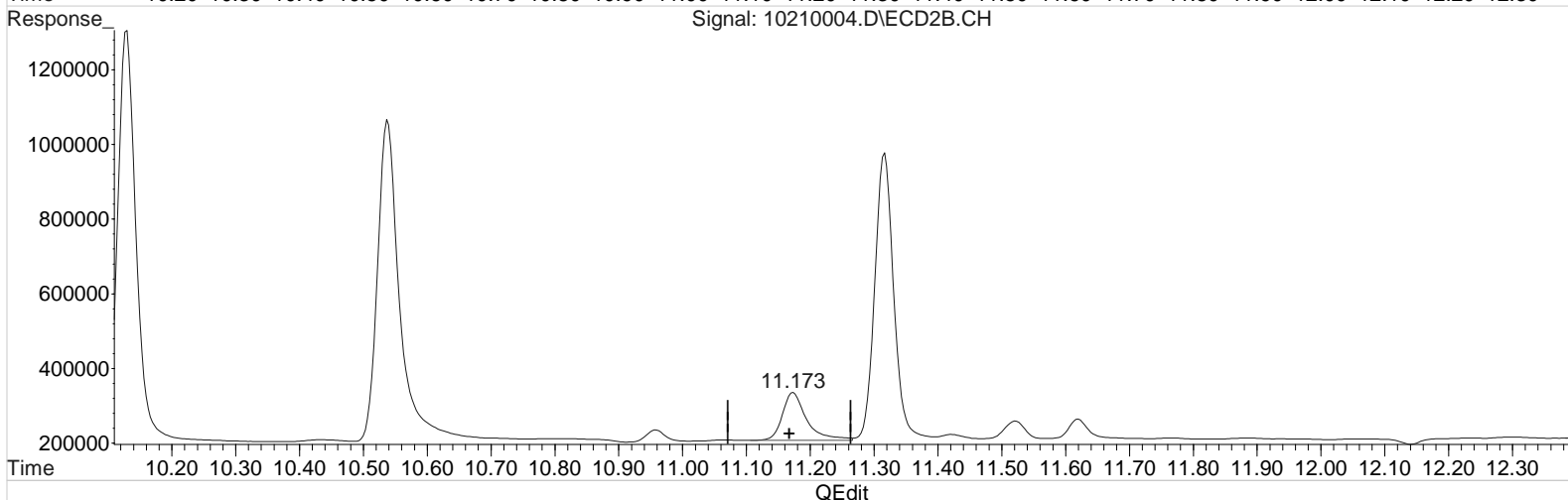
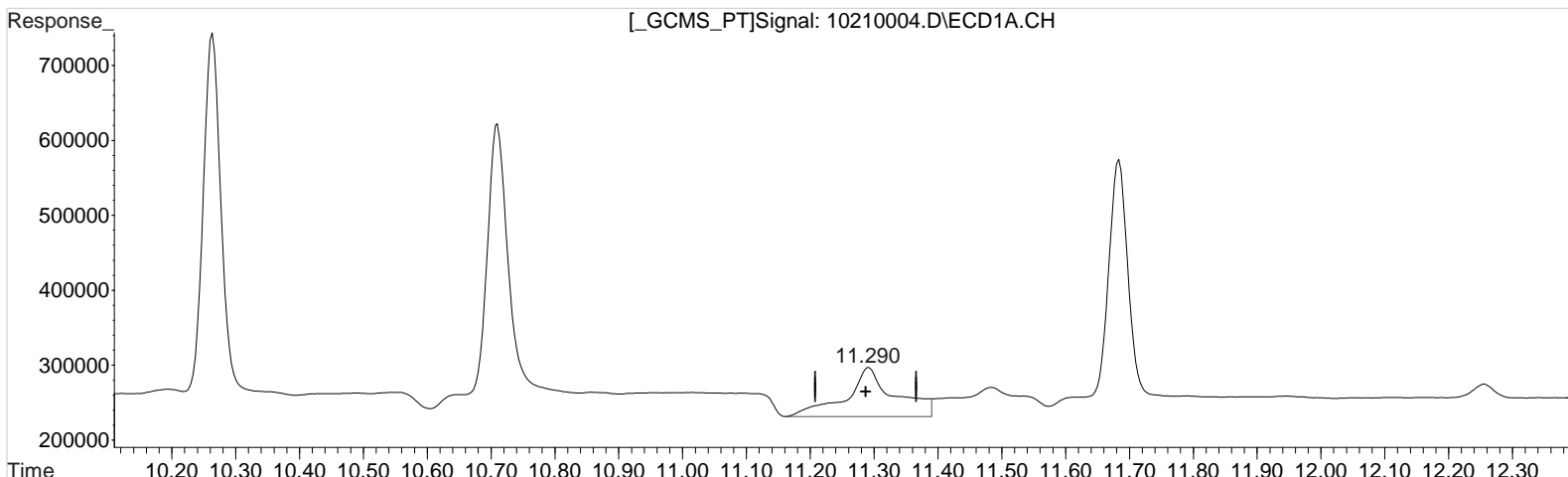
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)

11.290min 34.659 ppb
response 351402

Manual Integration:

Before

10/21/20

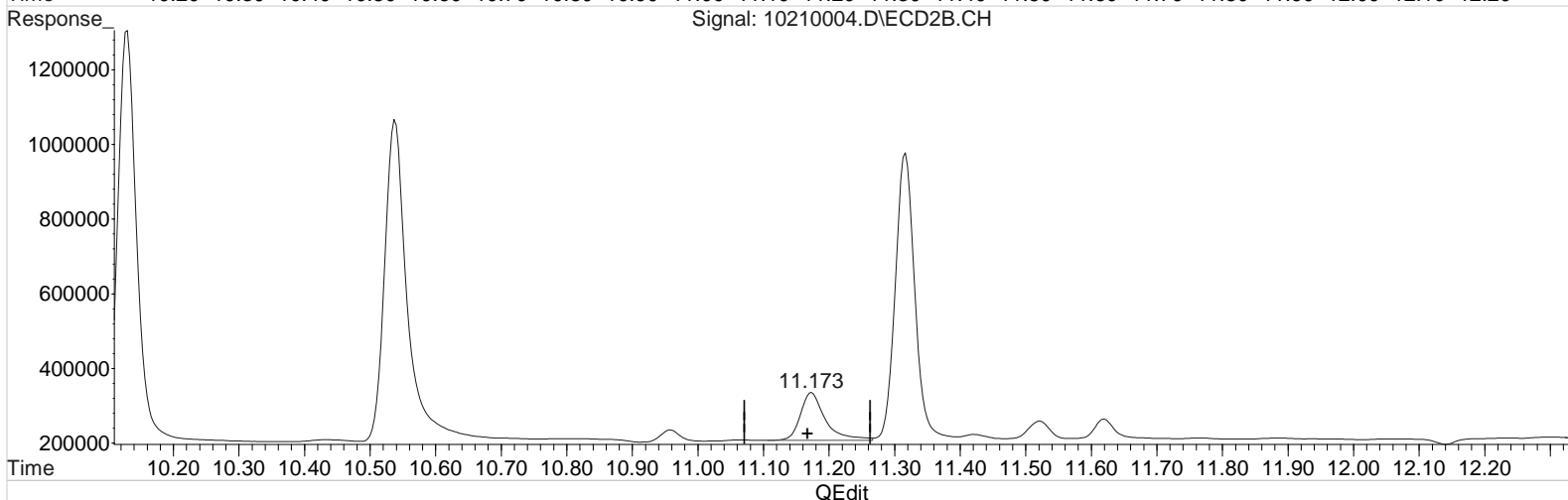
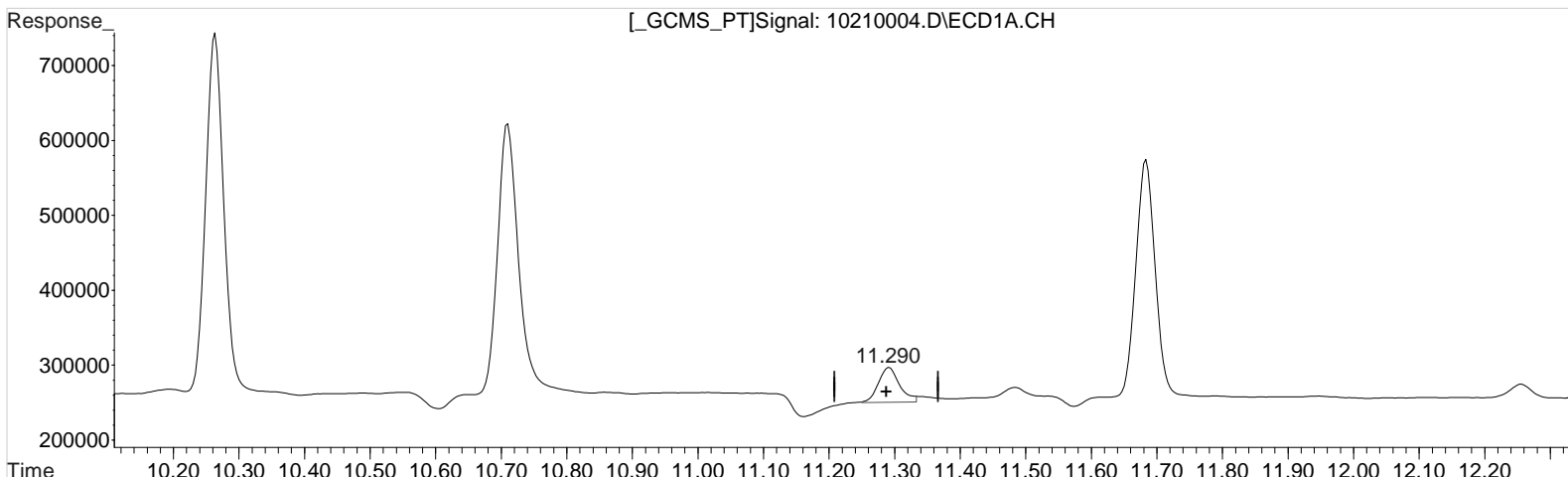
(10) 2,4-DB #2 (m)

11.173min 12.055 ppb
response 338252

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.290min 10.371 ppb m
response 105152

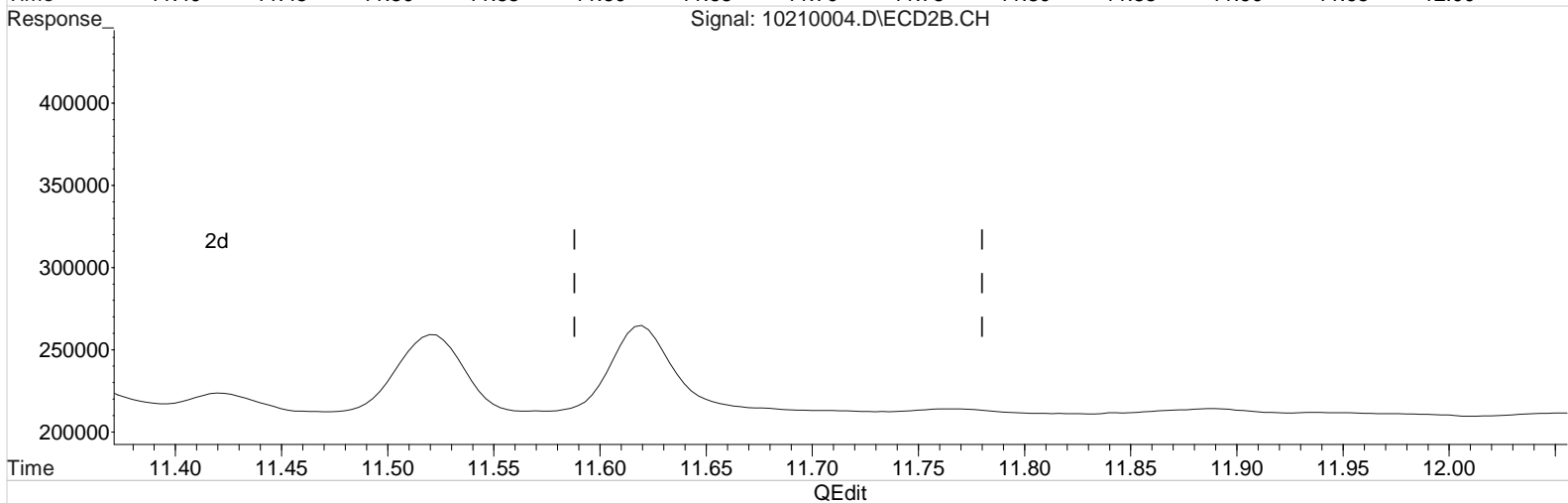
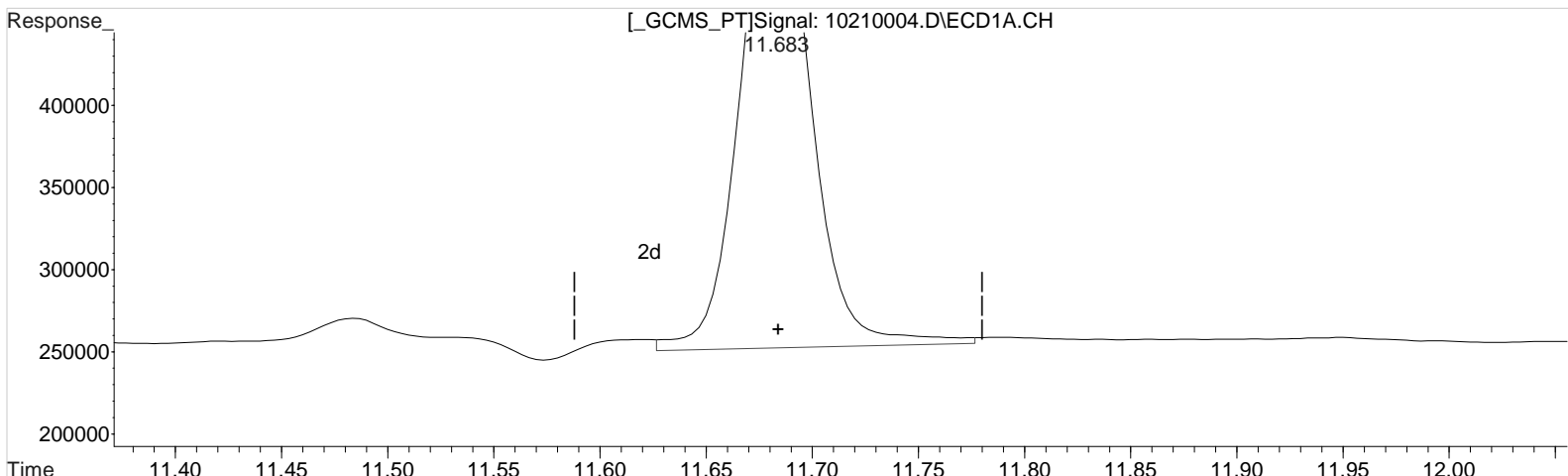
Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.173min 12.055 ppb
response 338252

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(11) Dinoseb (m)
11.683min 11.414 ppb
response 693954

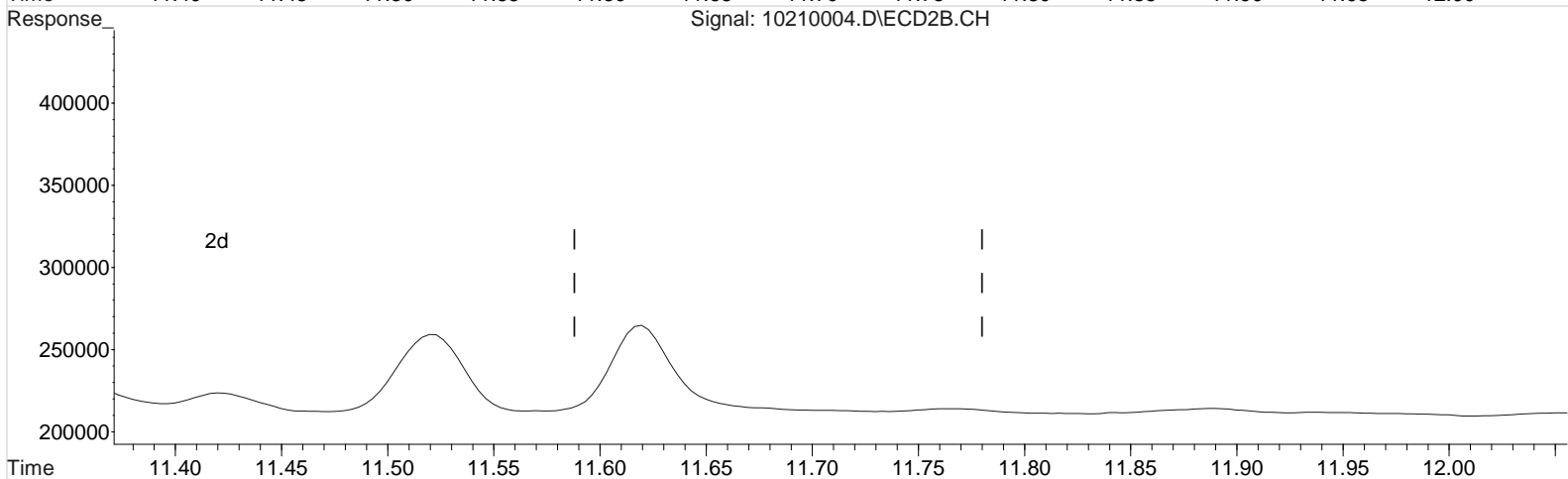
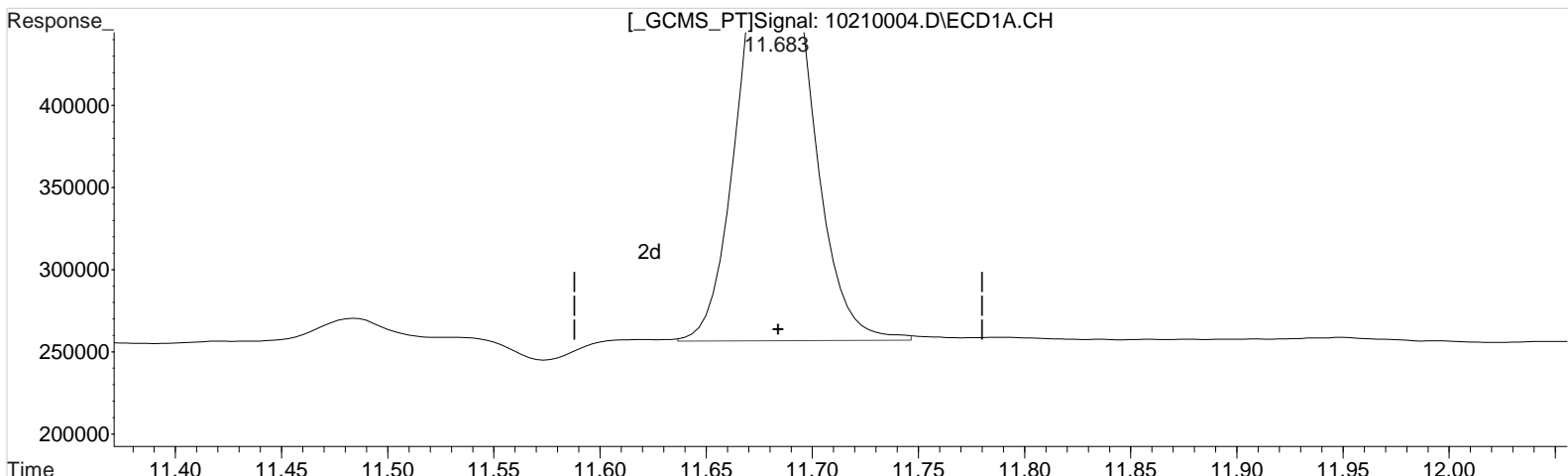
Manual Integration:
Before
10/21/20

(11) Dinoseb #2 (m)
11.316min 11.980 ppb
response 1585317

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(11) Dinoseb (m)
11.683min 10.776 ppb m
response 655169

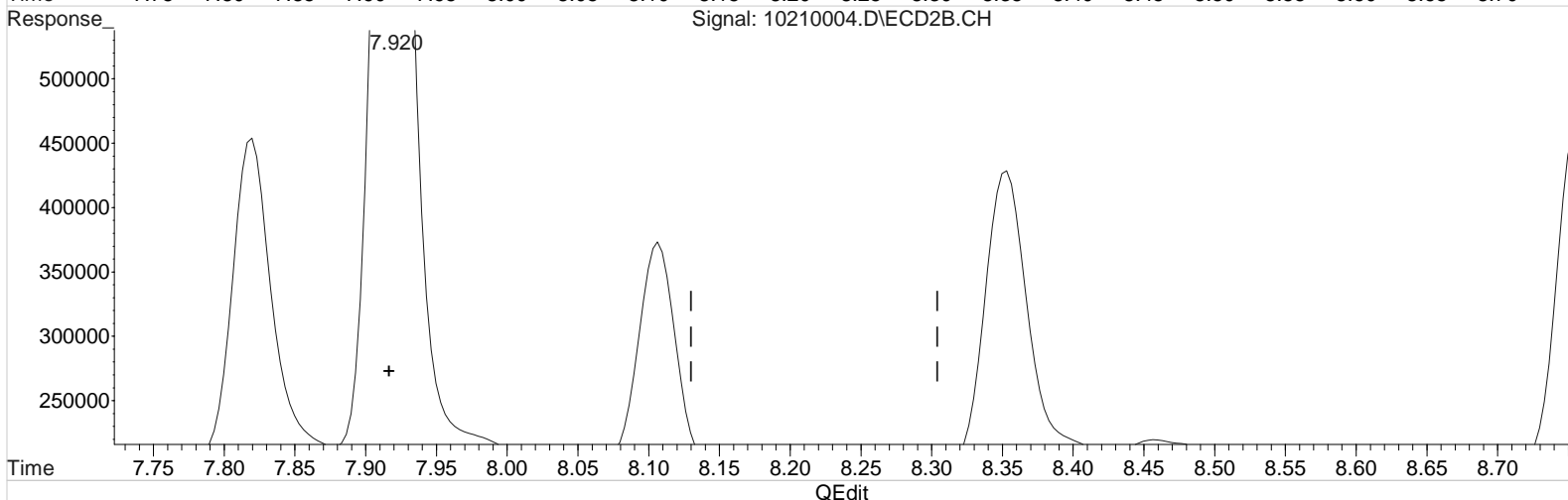
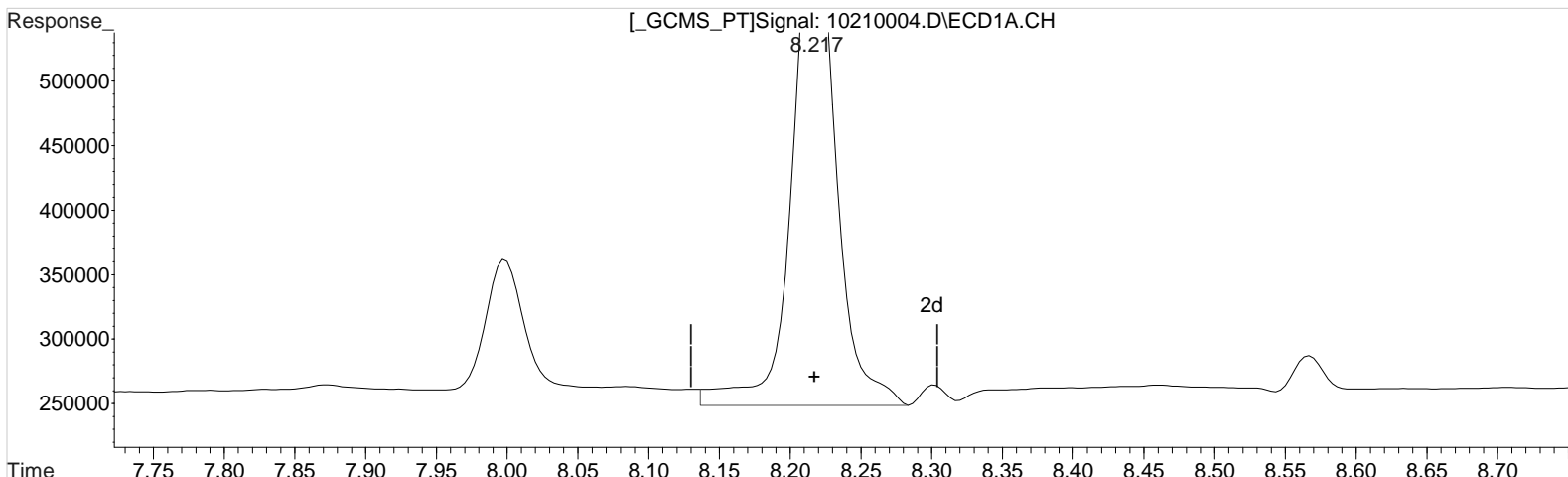
Manual Integration:
After
Baseline/Shoulder
10/21/20

(11) Dinoseb #2 (m)
11.316min 11.980 ppb
response 1585317

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.217min 12.005 ppb
response 827399

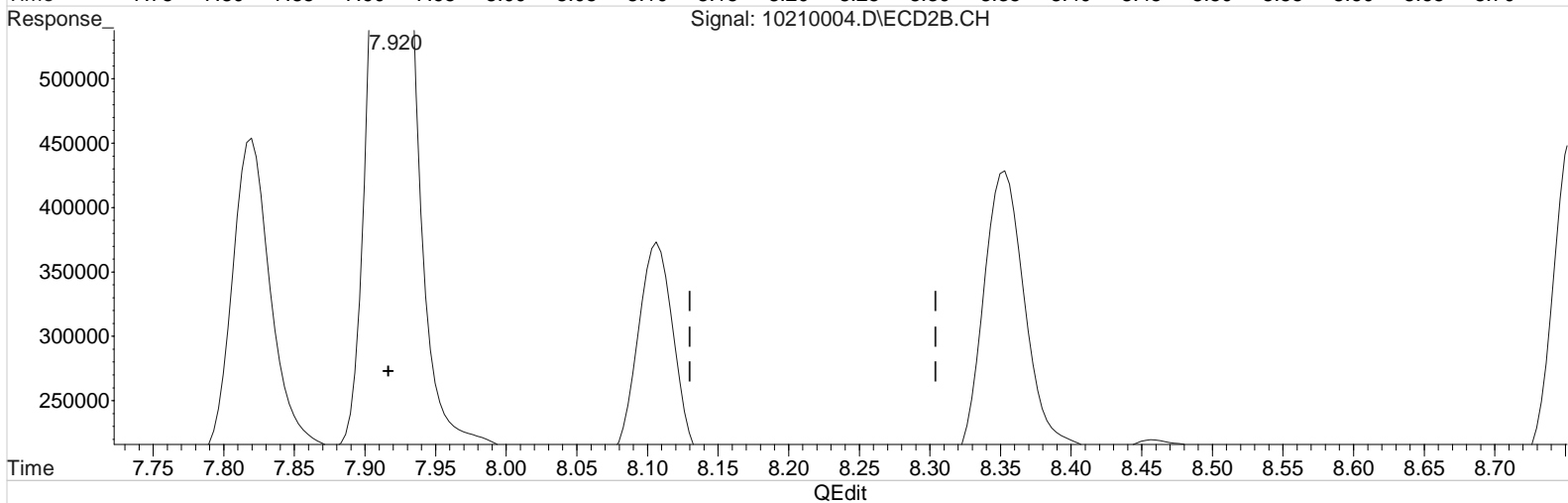
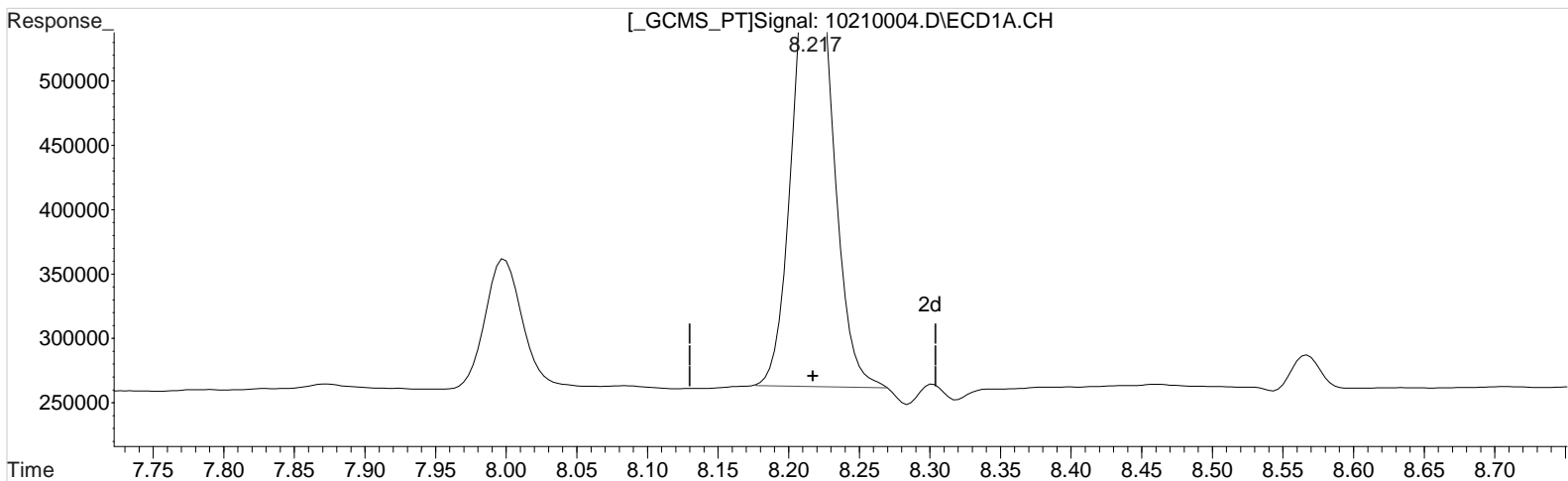
Manual Integration:
Before
10/21/20

(3) Dicamba #2 (m)
7.920min 11.193 ppb
response 1620262

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.217min 10.361 ppb m
response 714045

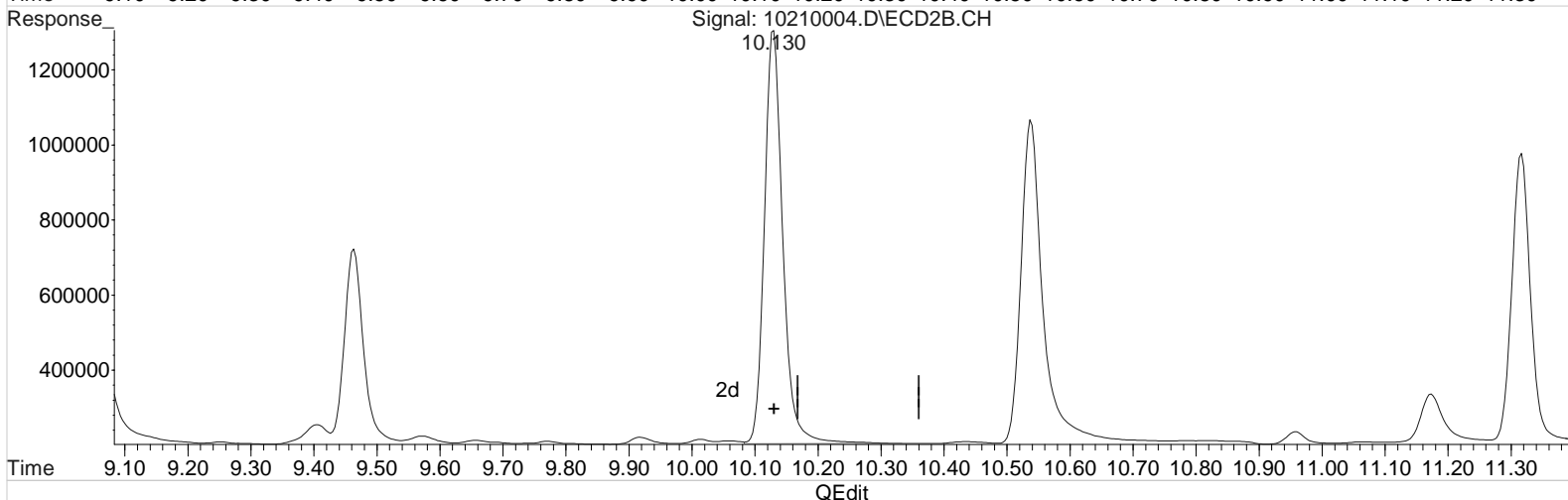
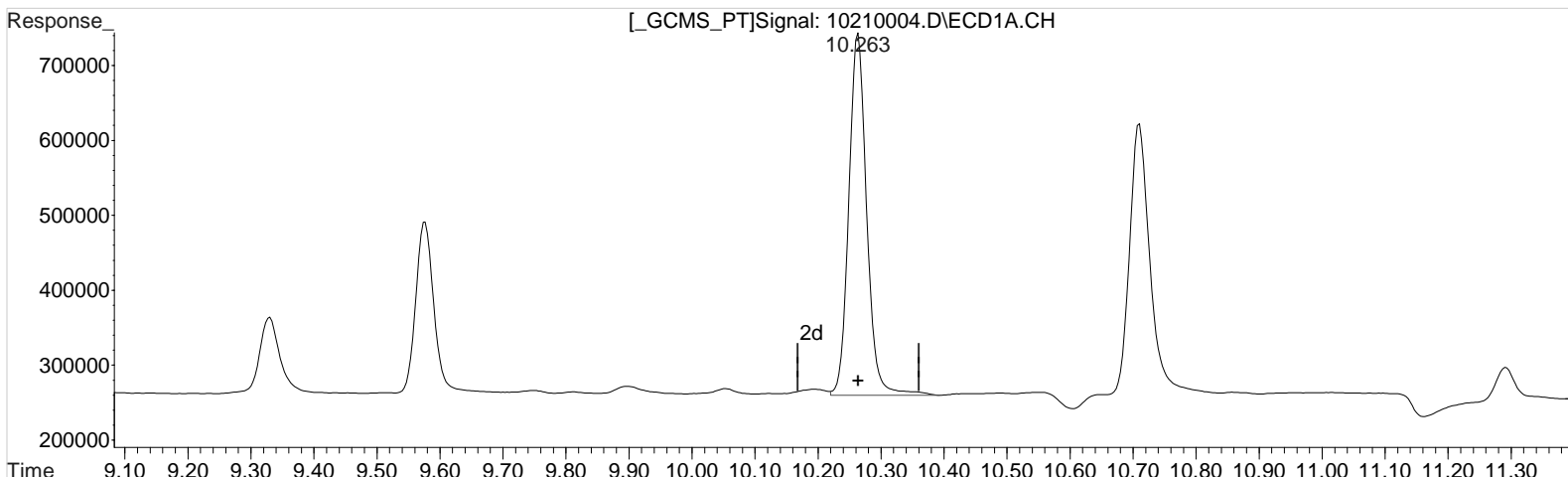
(3) Dicamba #2 (m)
7.920min 11.193 ppb
response 1620262

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)

10.263min 10.244 ppb

response 954083

Manual Integration:

Before

10/21/20

(8) 2,4,5-TP (Silvex) #2 (m)

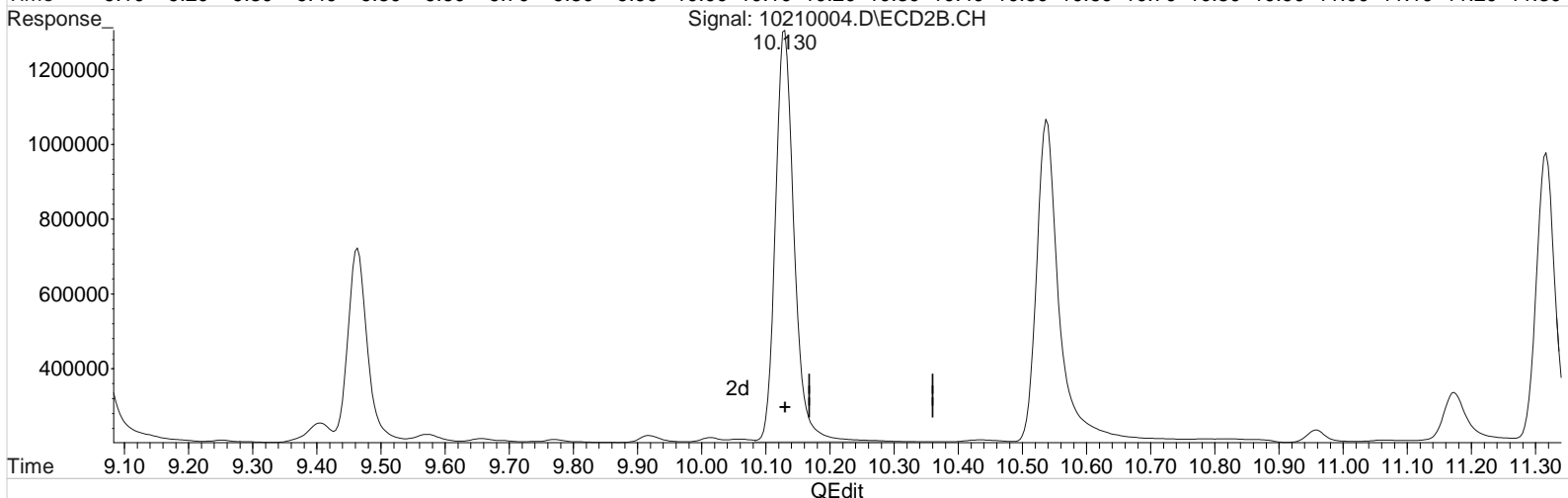
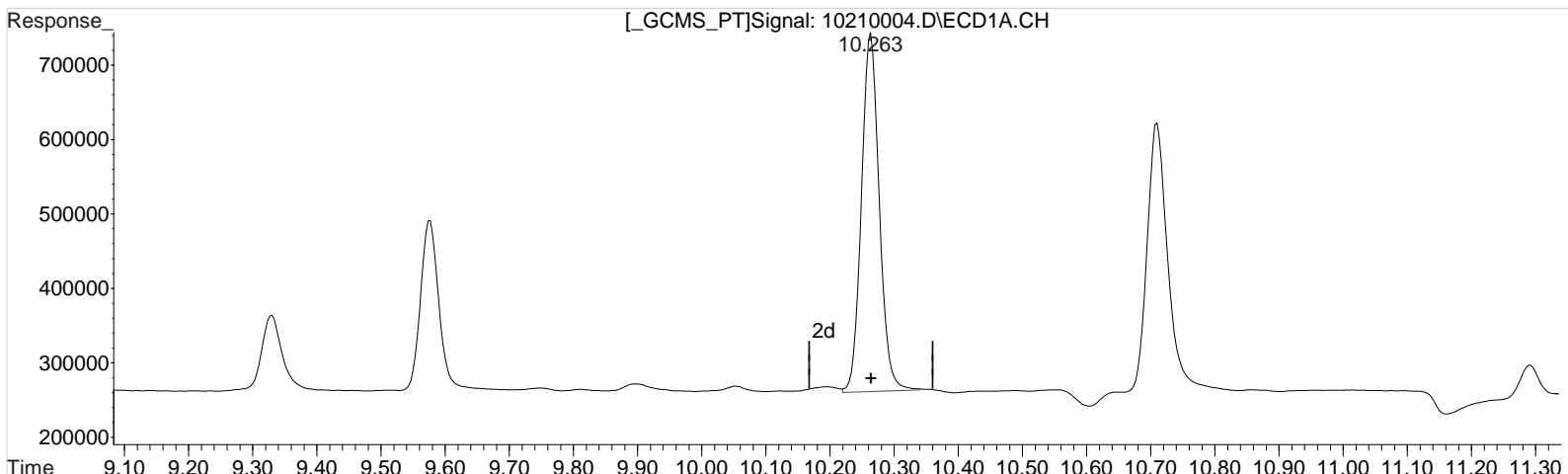
10.130min 11.308 ppb

response 2242551

Data File : J:\gc24\data\102120\10210004.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 1:46 pm Operator: UA
Sample : PENTA2-14K 10PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:29:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:28:50 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(8) 2,4,5-TP (Silvex) (m)
10.263min 9.958 ppb m
response 927413

(8) 2,4,5-TP (Silvex) #2 (m)
10.130min 11.308 ppb
response 2242551

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:09 pm Operator: UA
 Sample : PENTA2-14L 25PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:28:28 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:26:33 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds							
2) s	2,4-Dichl...	7.994	7.817	454333	1114582	26.144	28.691
Target Compounds							
1) m	Dalapon	3.128	2.874	622375	1185641	26.669m	25.104m
3) m	Dicamba	8.214	7.917	1772679	3745342	26.131m	26.313
4) m	MCPD	8.301	8.104	87770	616897	1973.683	3767.293 #
5) m	MCPA	8.564	8.351	142776	870257	2368.770	3935.605 #
6) m	Dichloroprop	8.968	8.751	499436	1130772	28.469	29.321
7) m	2,4-D	9.324	9.064	558866	1393959	27.651	29.833
8) m	2,4,5-TP ...	10.264	10.127	2326151	5175294	25.192	26.532
9) m	2,4,5-T	10.708	10.534	2067316	4914810	25.526m	26.821
10) m	2,4-DB	11.288	11.167	277452	763407	28.096m	27.903
11) m	Dinoseb	11.684	11.314	1575526	3578948	26.340	27.716

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

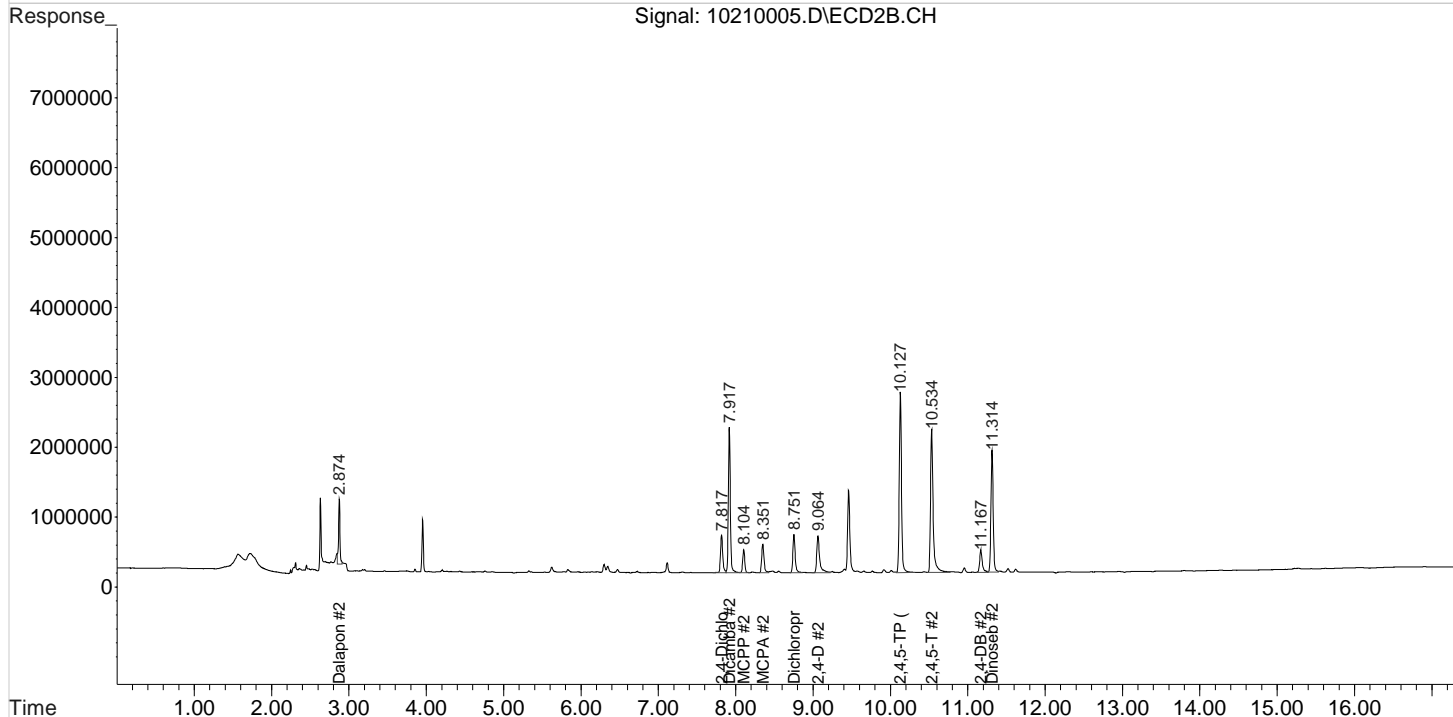
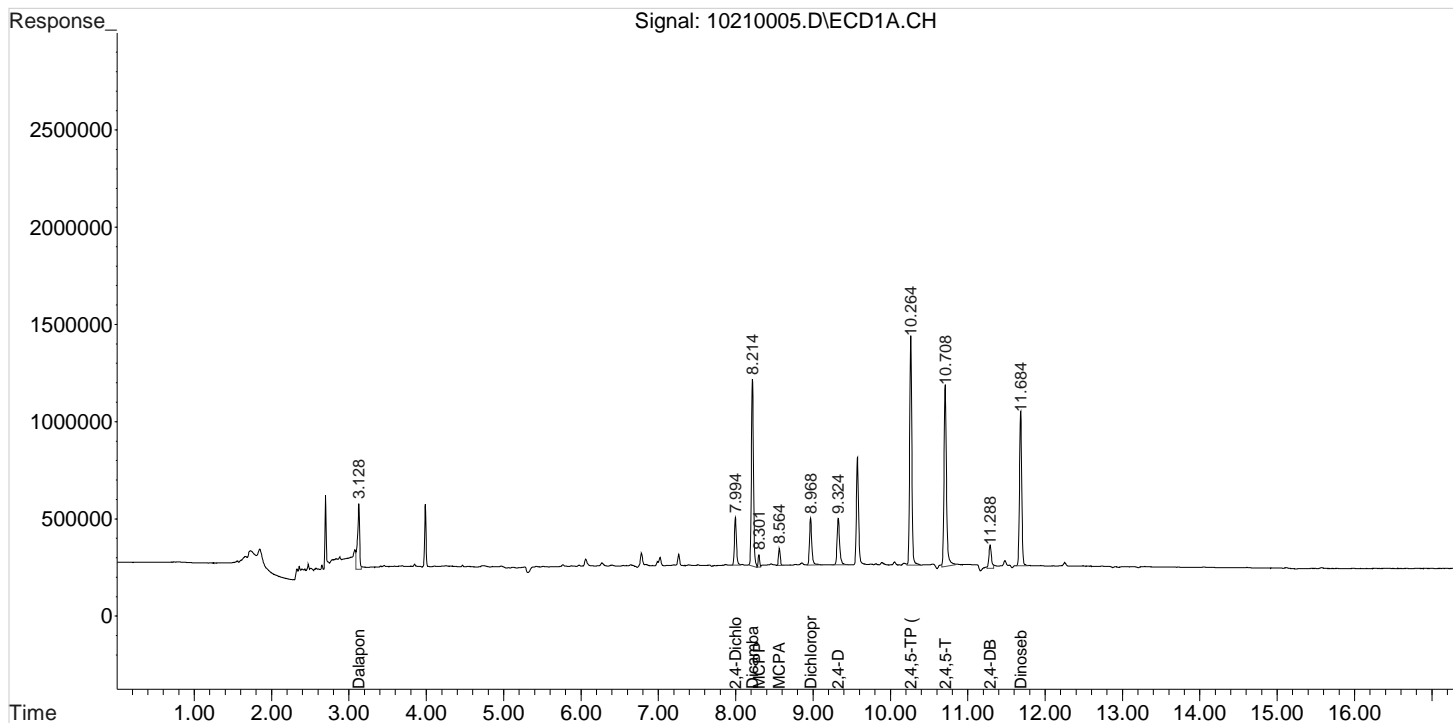
Data File : J:\gc24\data\102120\10210005.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm
Sample : PENTA2-14L 25PPB
Misc :

Vial: 4
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:28:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

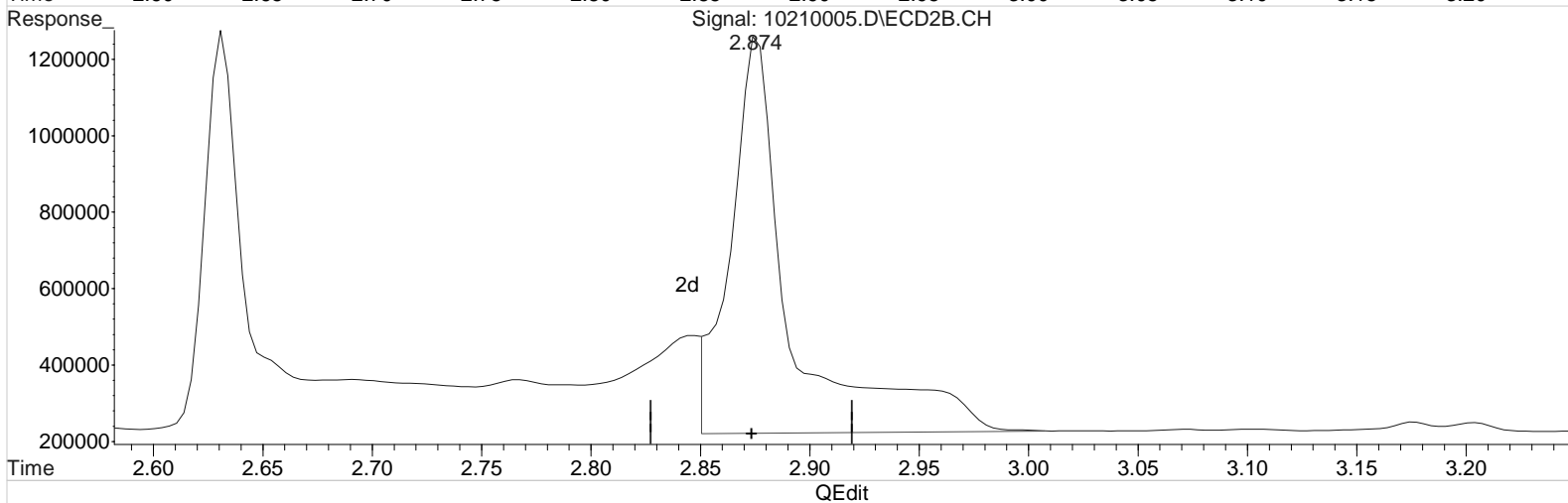
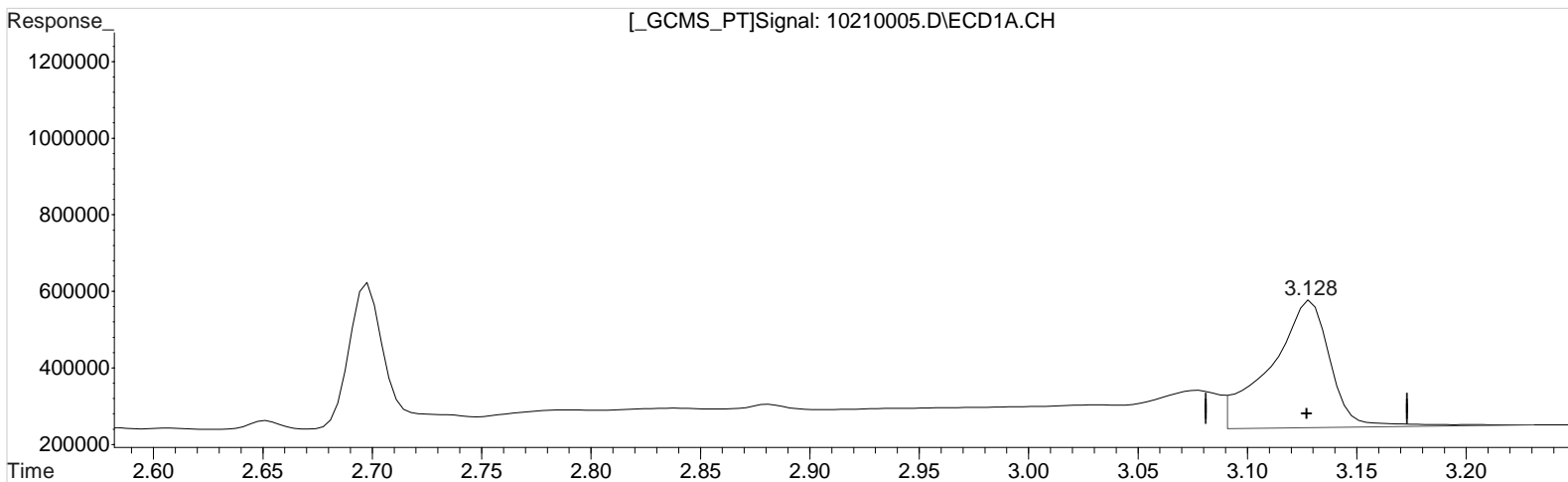
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.128min 26.760 ppb
response 624496

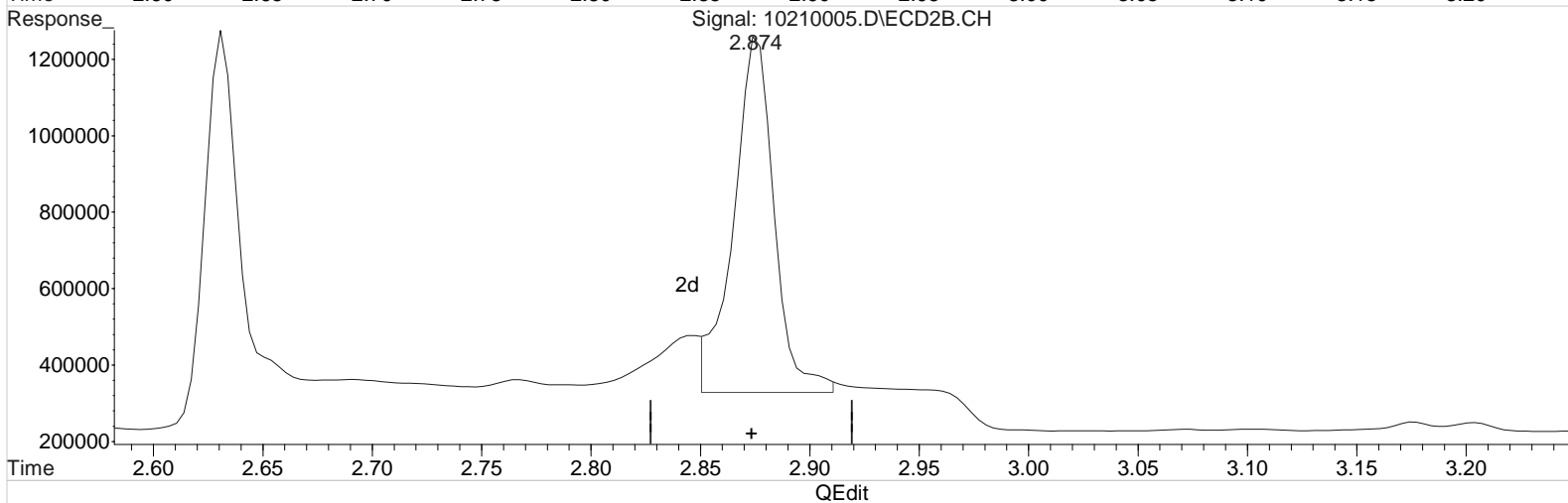
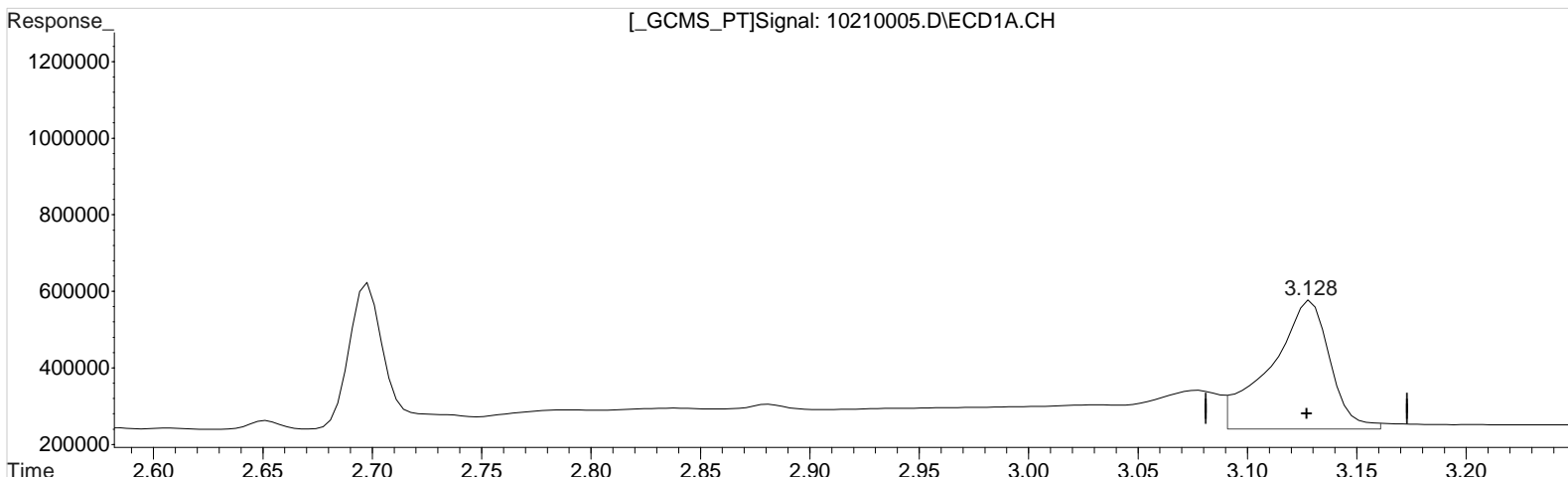
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.874min 42.153 ppb
response 1990871

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.128min 26.669 ppb m
response 622375

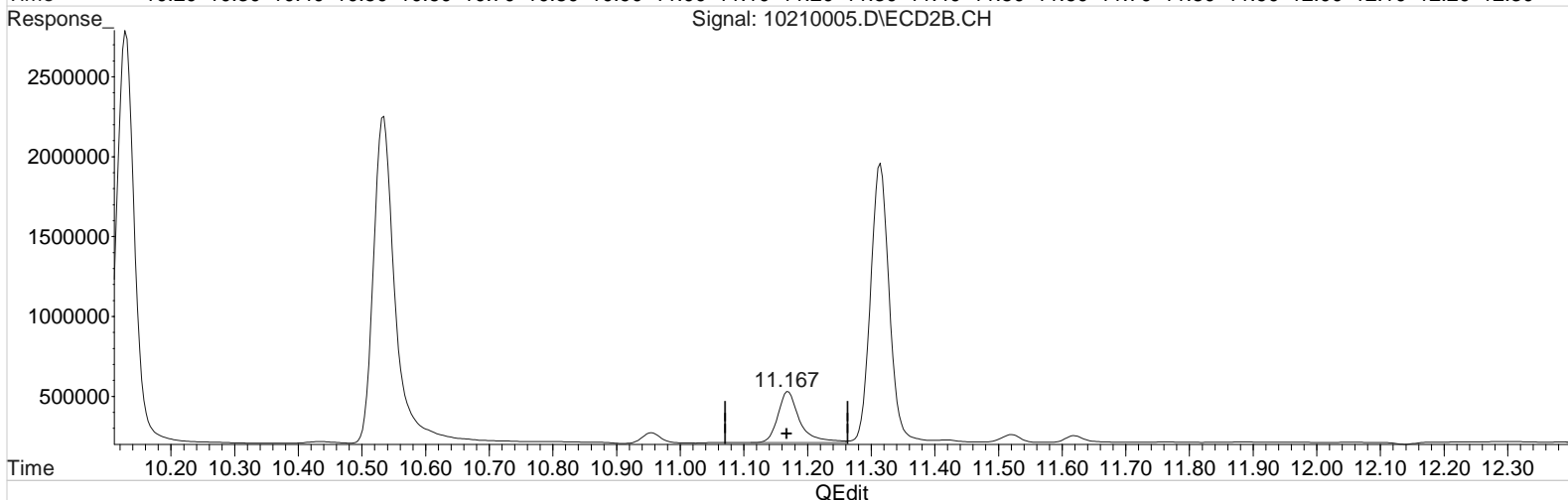
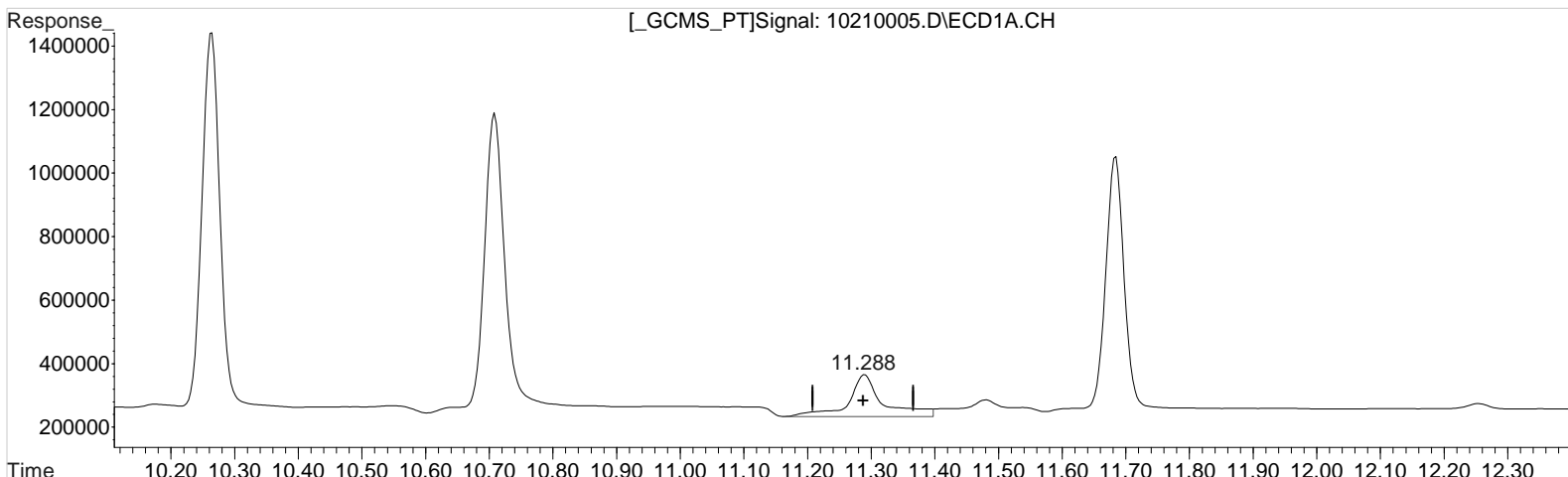
Manual Integration:
After
Baseline/Shoulder
10/21/20

(1) Dalapon #2 (m)
2.874min 25.104 ppb m
response 1185641

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 50.935 ppb
response 502979

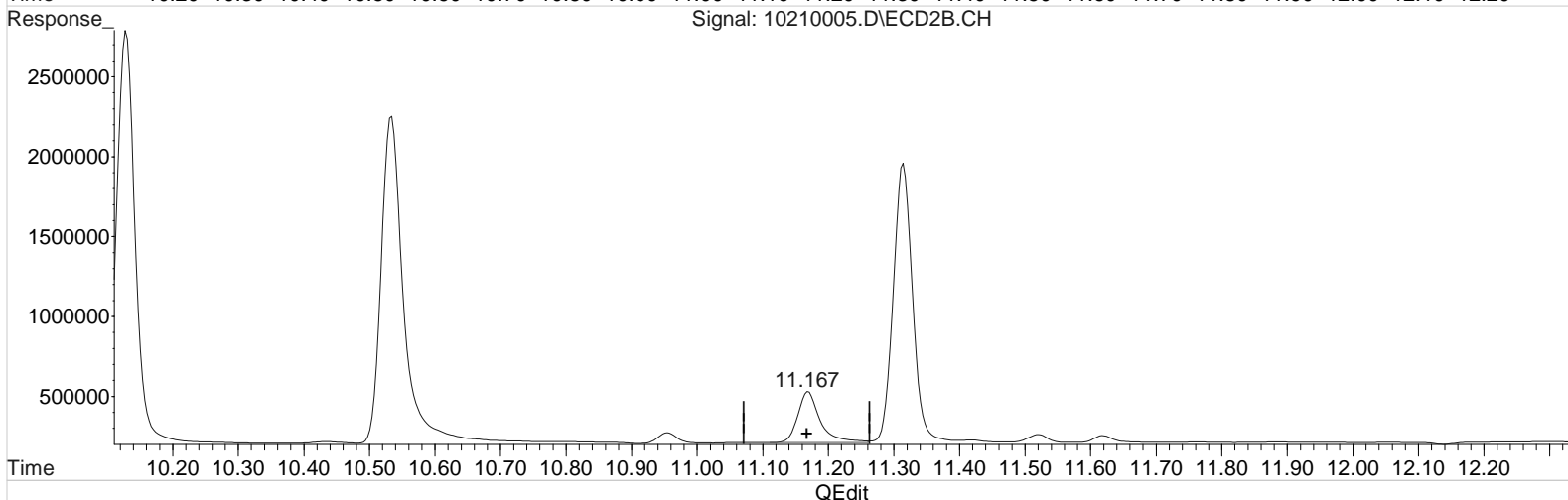
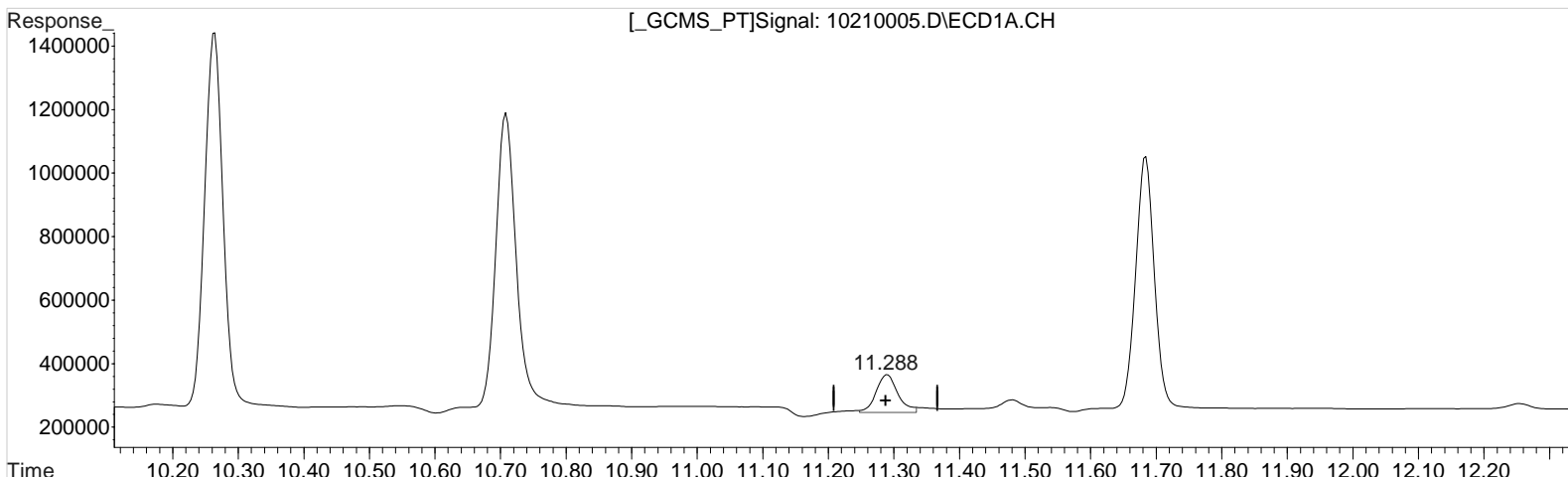
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.167min 27.903 ppb
response 763407

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 28.096 ppb m
response 277452

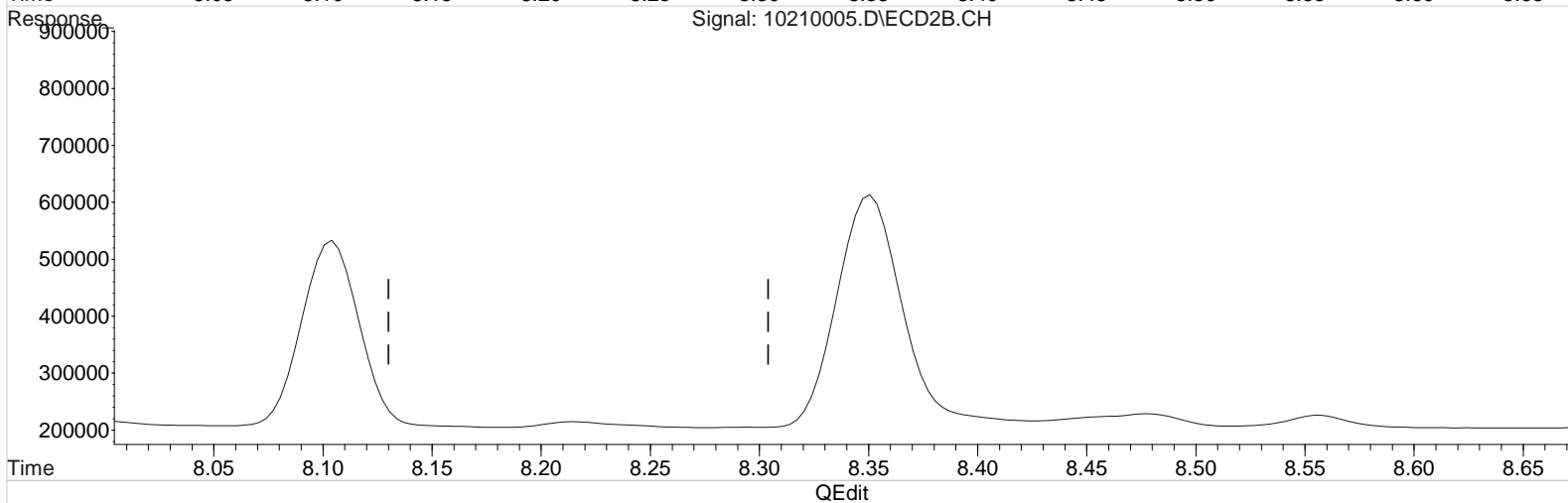
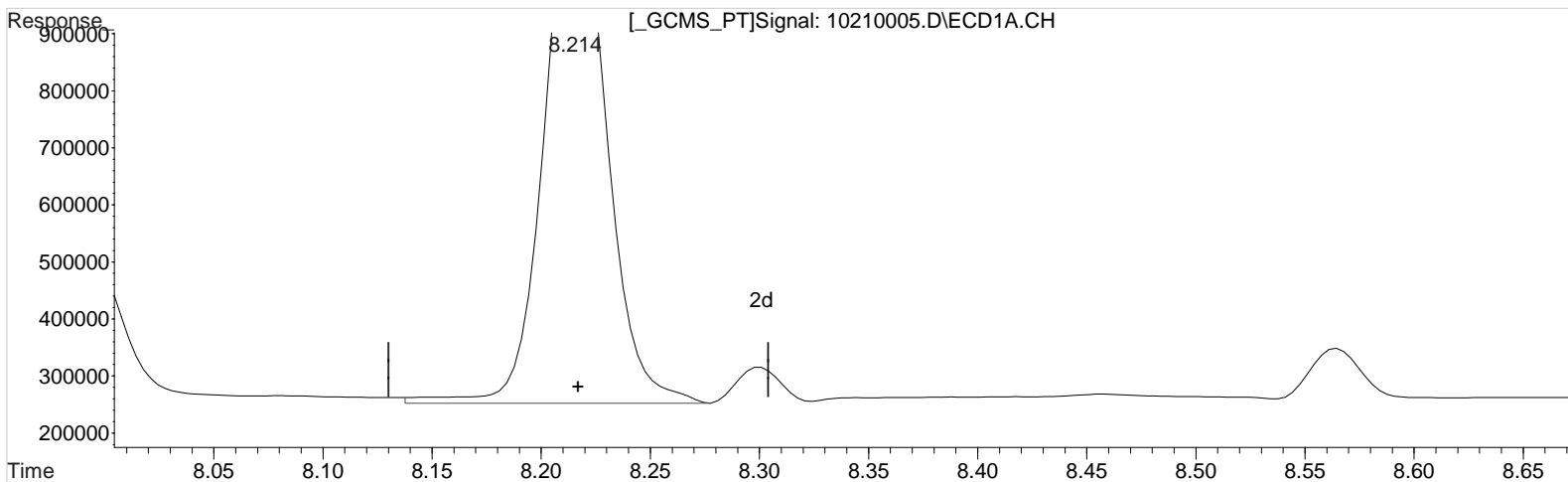
Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.167min 27.903 ppb
response 763407

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.214min 26.882 ppb
response 1823650

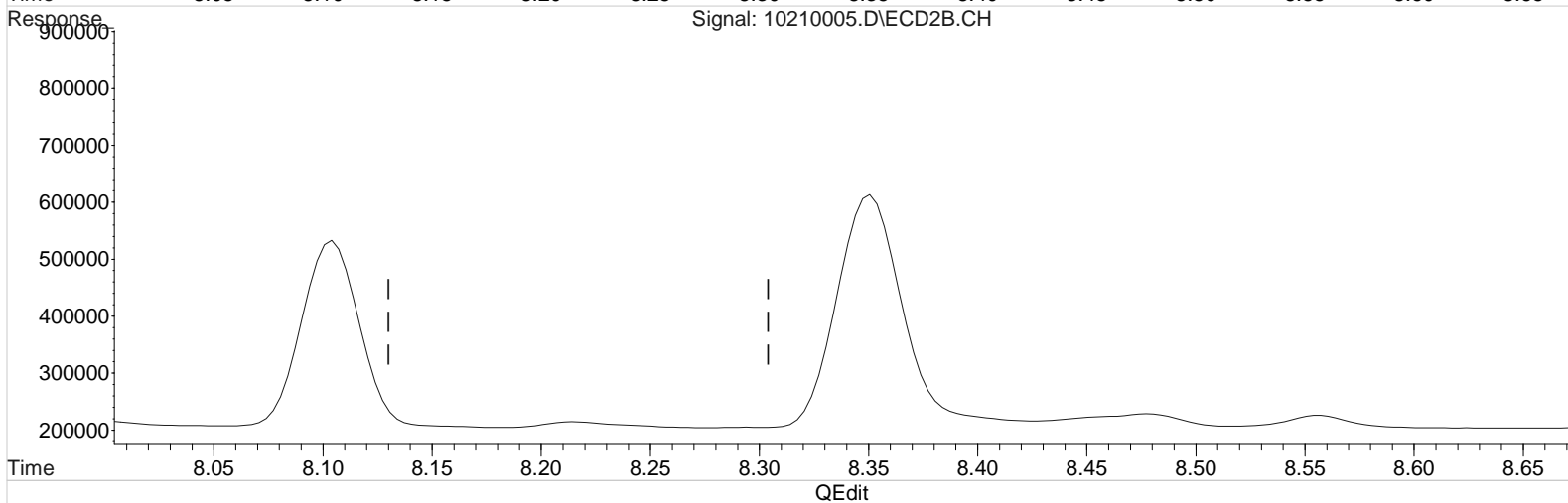
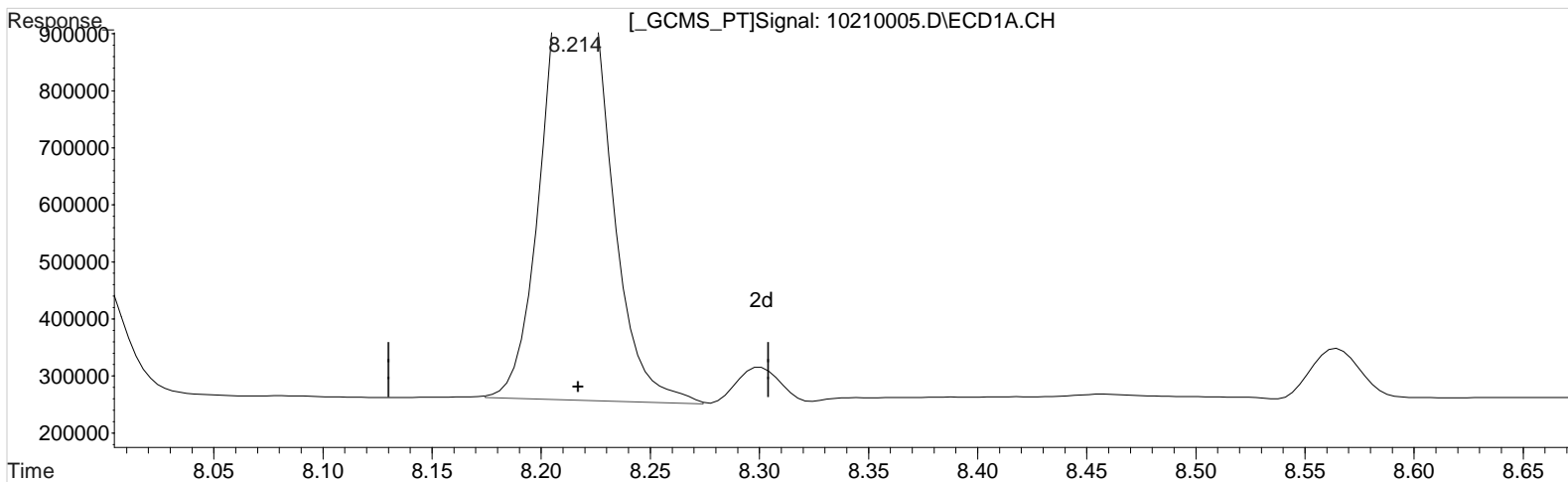
Manual Integration:
Before
10/21/20

(3) Dicamba #2 (m)
7.917min 26.313 ppb
response 3745342

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(3) Dicamba (m)
8.214min 26.131 ppb m
response 1772679

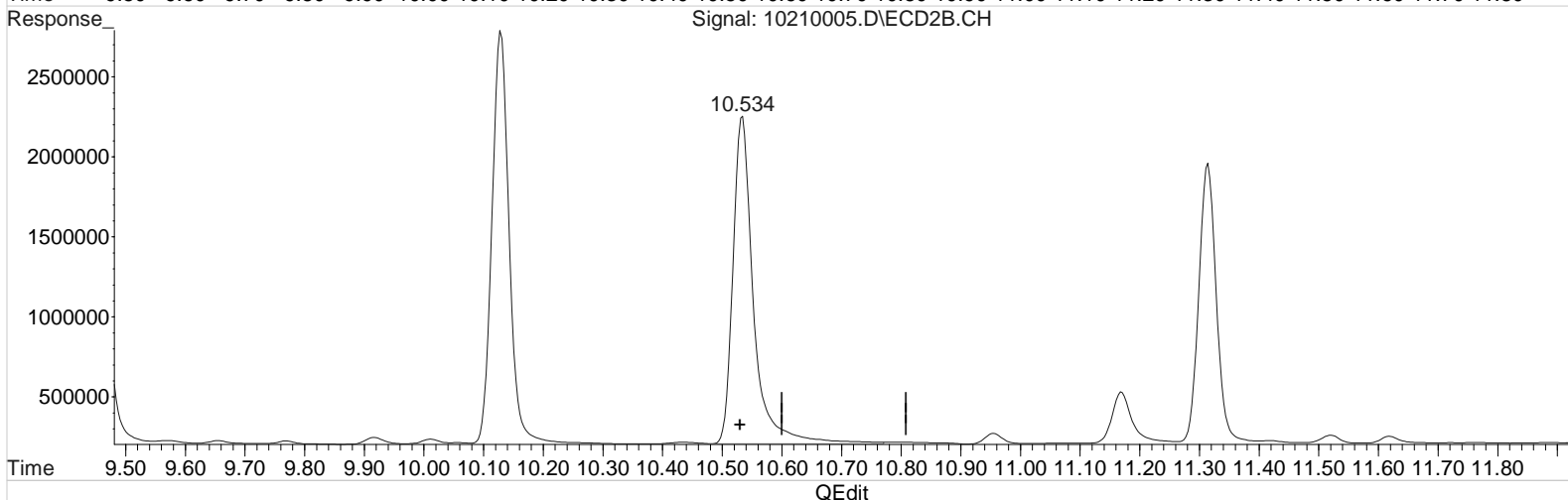
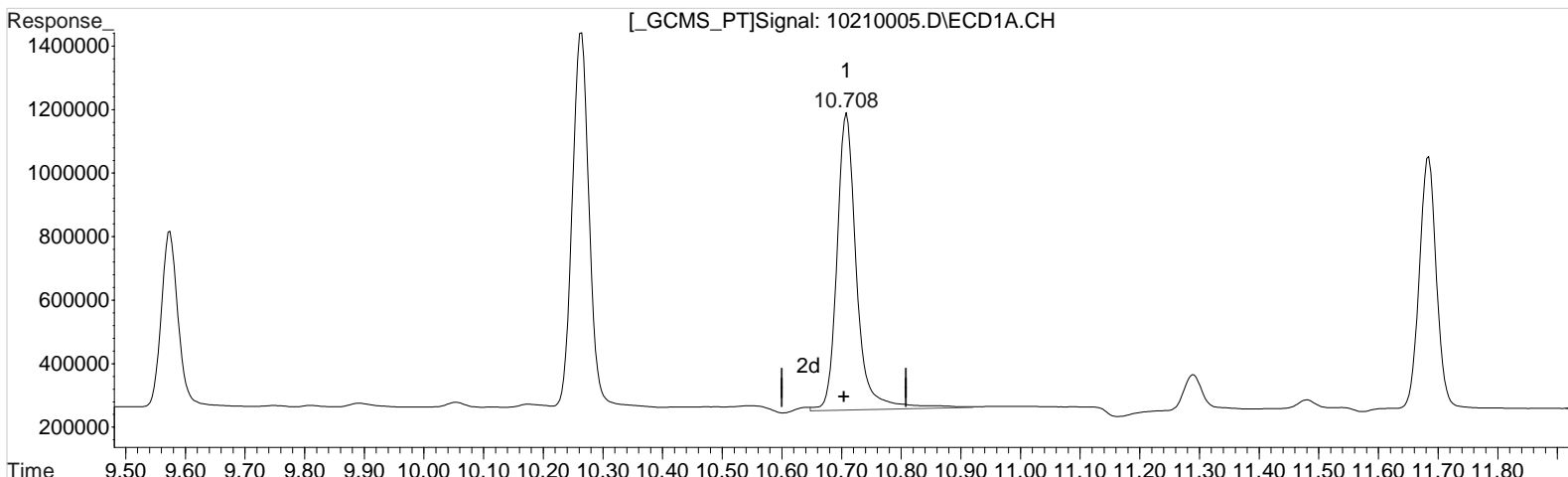
(3) Dicamba #2 (m)
7.917min 26.313 ppb
response 3745342

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210005.D Vial: 4
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:09 pm Operator: UA
 Sample : PENTA2-14L 25PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:26:50 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:26:33 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(9) 2,4,5-T (m)
 10.708min 26.371 ppb
 response 2135780

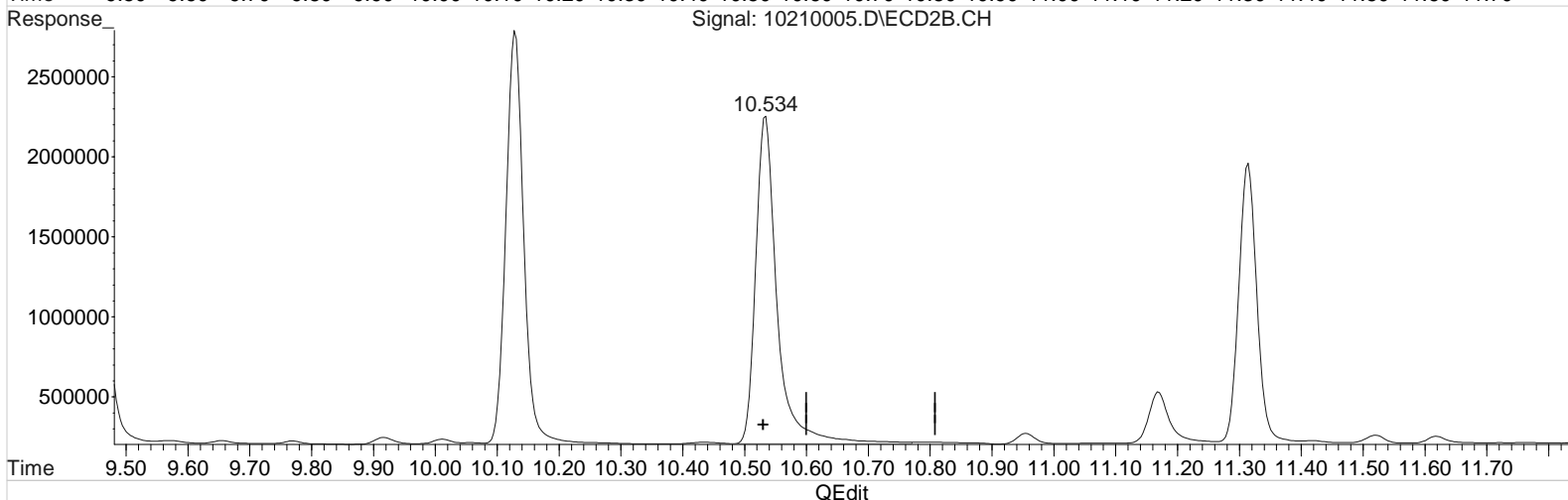
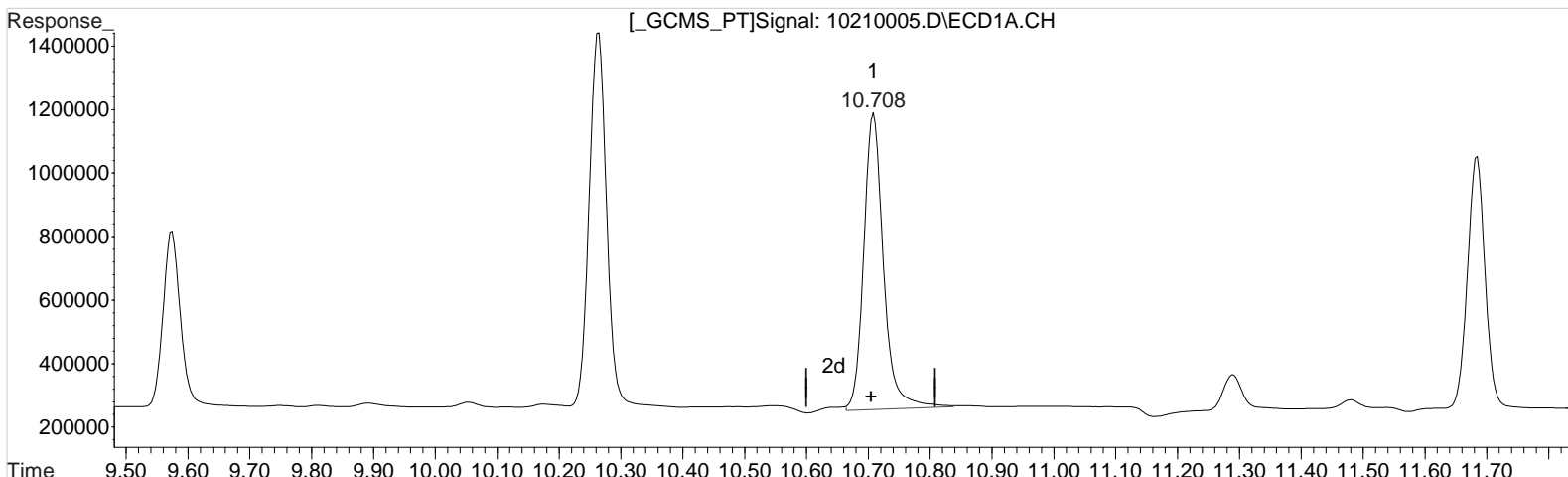
Manual Integration:
 Before
 10/21/20

(9) 2,4,5-T #2 (m)
 10.534min 26.821 ppb
 response 4914810

Data File : J:\gc24\data\102120\10210005.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:09 pm Operator: UA
Sample : PENTA2-14L 25PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:50 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:26:33 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(9) 2,4,5-T (m)
10.708min 25.526 ppb m
response 2067316

Manual Integration:
After
Baseline/Shoulder
10/21/20

(9) 2,4,5-T #2 (m)
10.534min 26.821 ppb
response 4914810

Data File : J:\gc24\data\102120\10210006.D Vial: 5
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:33 pm Operator: UA
 Sample : PENTA2-14M 75PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:26:03 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:24:19 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.994	7.813	1215646	2731831	70.442	70.893
Target Compounds						
1) m Dalapon	3.127	2.873	1539560	3208933	65.523m	67.872m
3) m Dicamba	8.214	7.917	4777999	10040786	70.417	70.550
4) m MCPP	8.300	8.103	302116	1300529	6746.467	8151.025
5) m MCPA	8.564	8.350	422140	1746556	7002.375	8103.973
6) m Dichloroprop	8.964	8.750	1271081	2826954	72.793	73.826
7) m 2,4-D	9.324	9.057	1462698	3415664	72.757	73.646
8) m 2,4,5-TP ...	10.260	10.127	6475348	13928120	69.897	71.425
9) m 2,4,5-T	10.704	10.530	5799509	13030282	71.712	71.109
10) m 2,4-DB	11.284	11.163	711824	1973095	72.304m	72.345
11) m Dinoseb	11.680	11.313	4350886	9284027	73.117	72.100

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

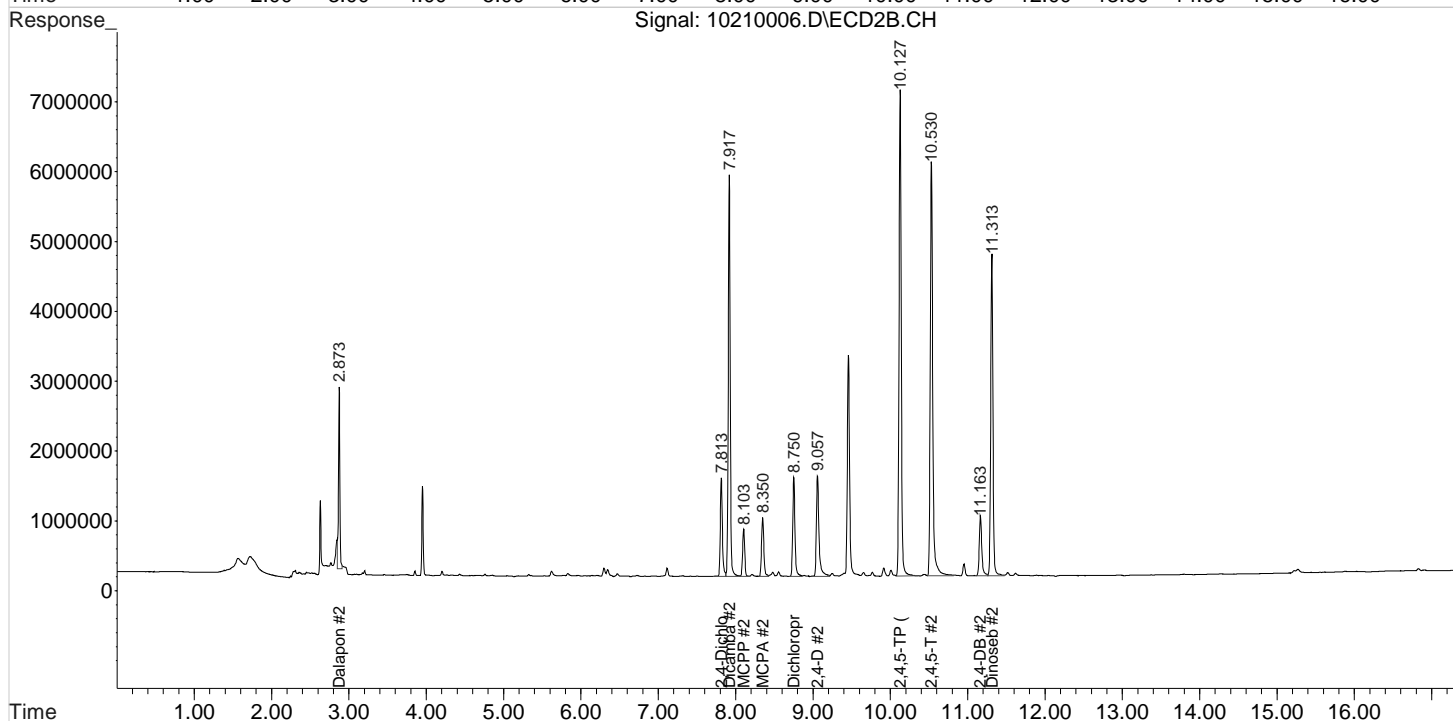
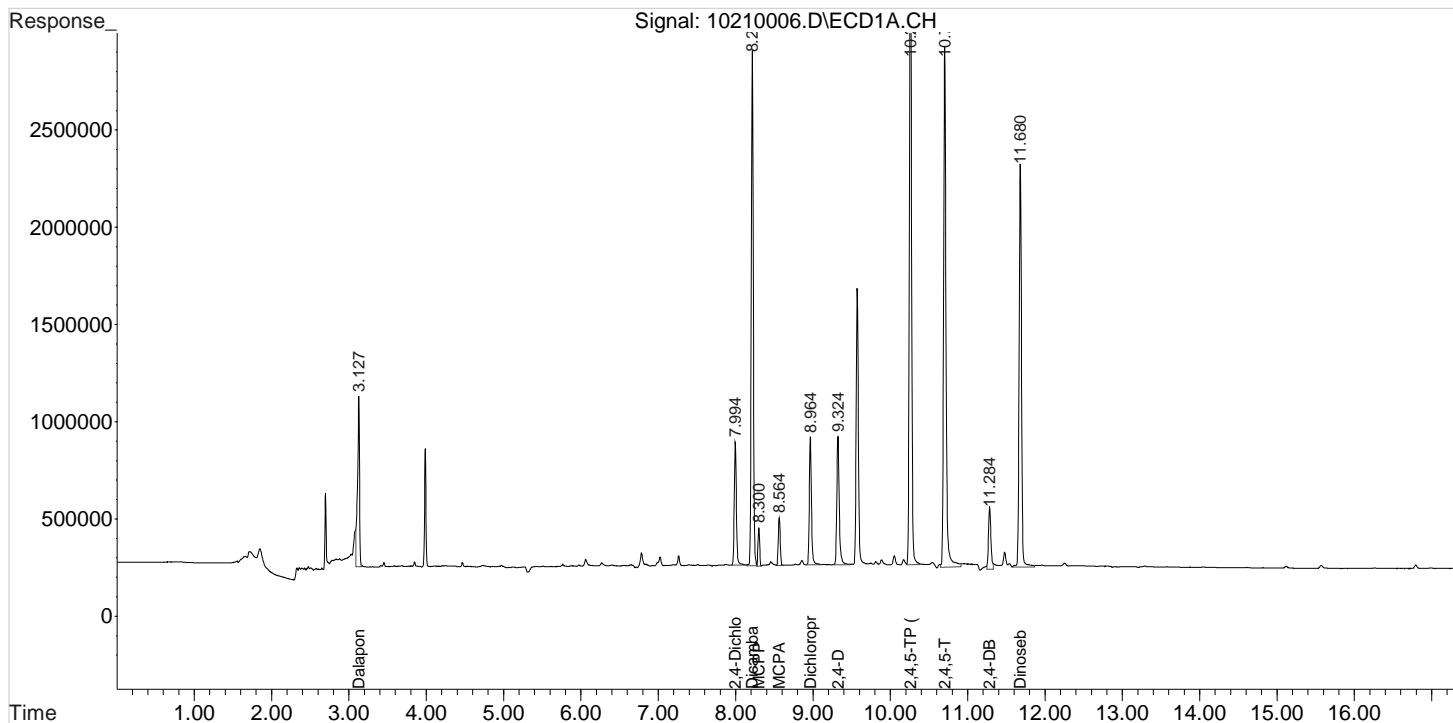
Data File : J:\gc24\data\102120\10210006.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm
Sample : PENTA2-14M 75PPB
Misc :

Vial: 5
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:26:03 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

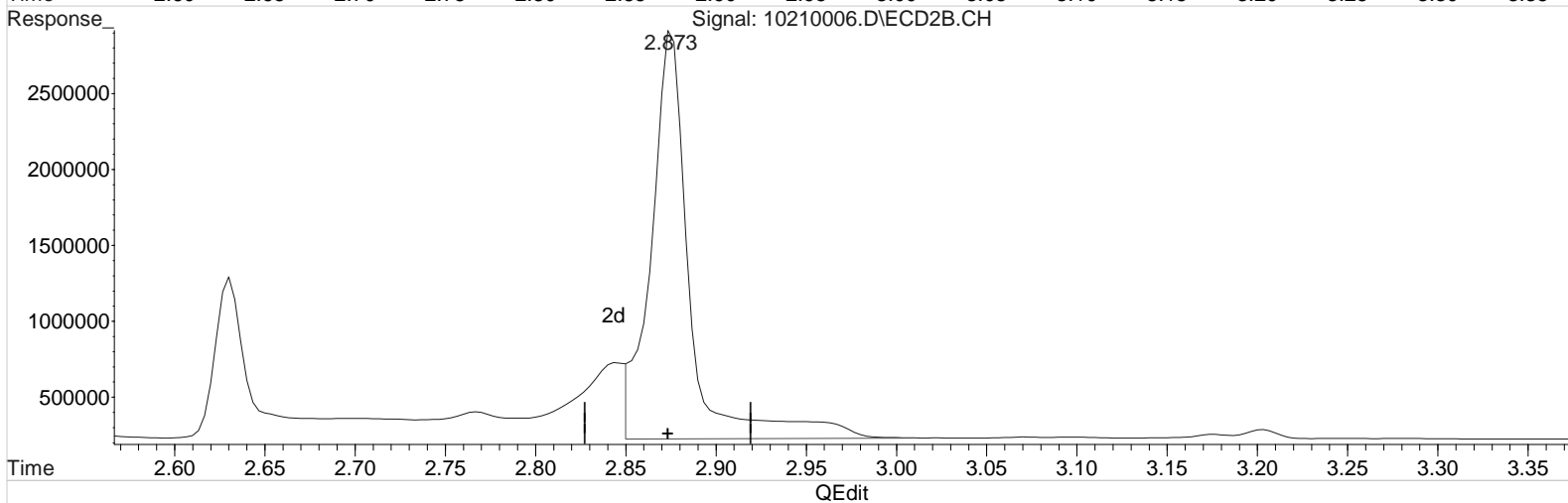
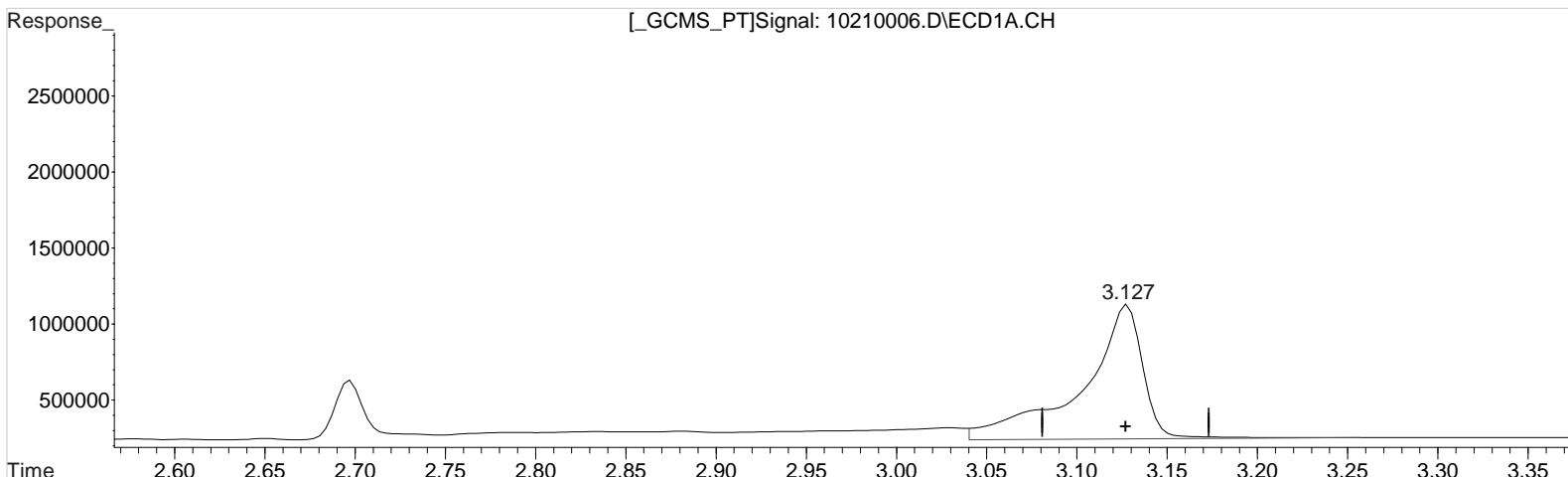
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 88.037 ppb
response 2068544

Manual Integration:
Before
10/21/20

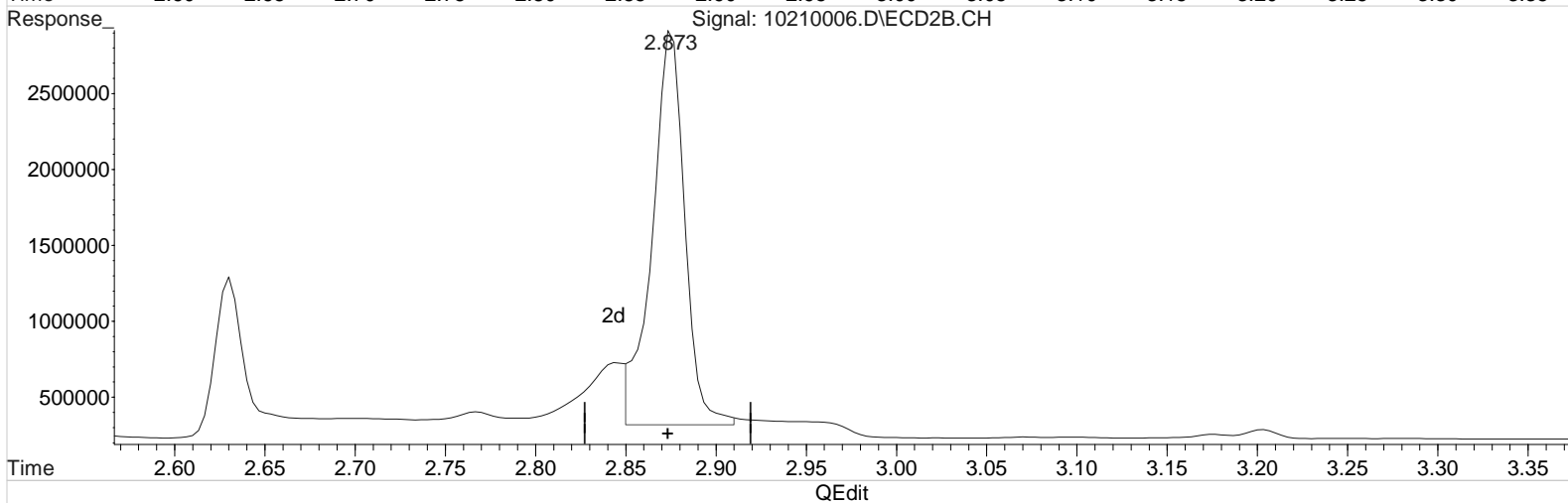
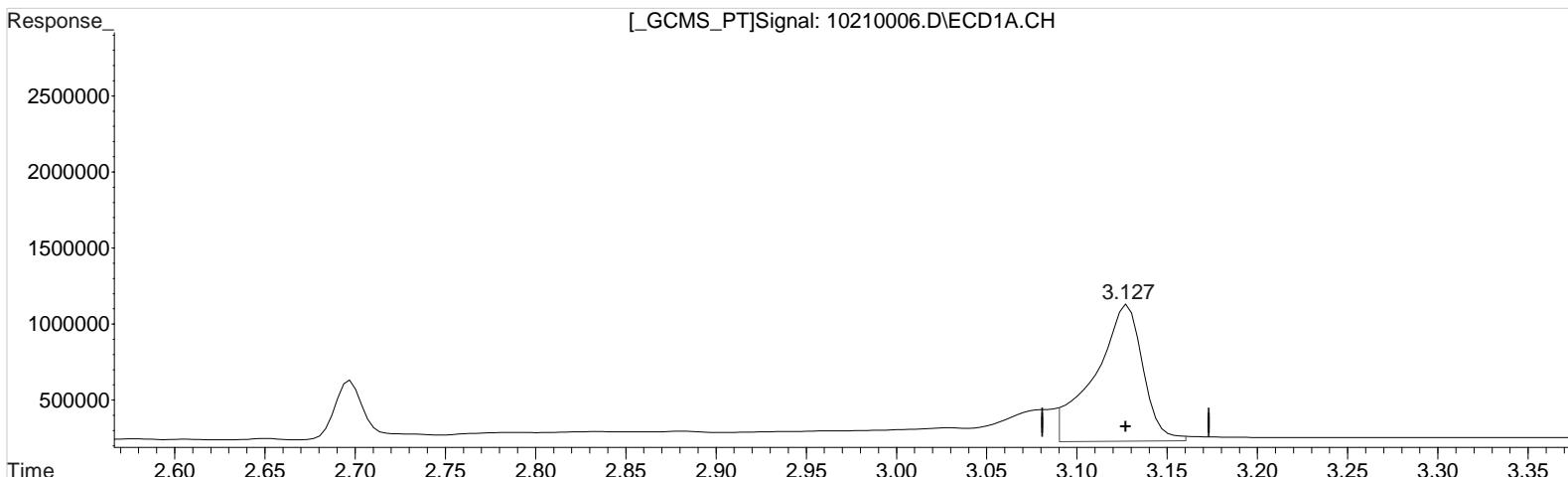
(1) Dalapon #2 (m)
2.873min 84.167 ppb
response 3979368

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210006.D Vial: 5
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:33 pm Operator: UA
 Sample : PENTA2-14M 75PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:24:40 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:24:19 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
 3.127min 70.095 ppb m
 response 1646979

Manual Integration:
 After
 Baseline/Shoulder
 10/21/20

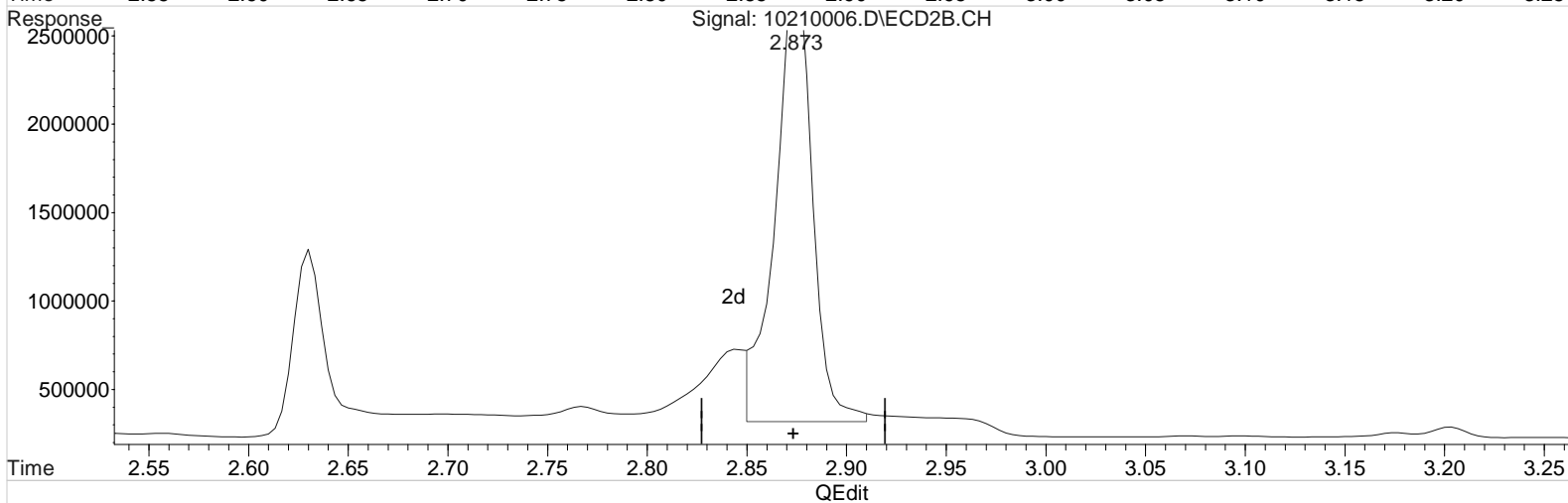
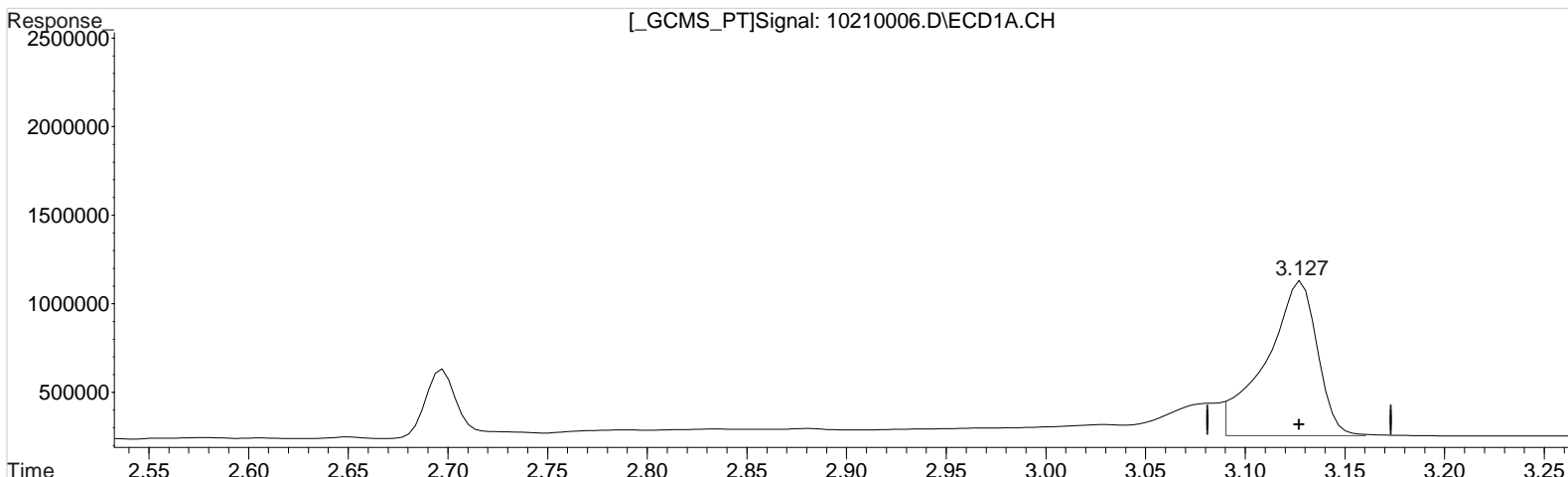
(1) Dalapon #2 (m)
 2.873min 67.872 ppb m
 response 3208933

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 65.523 ppb m
response 1539560

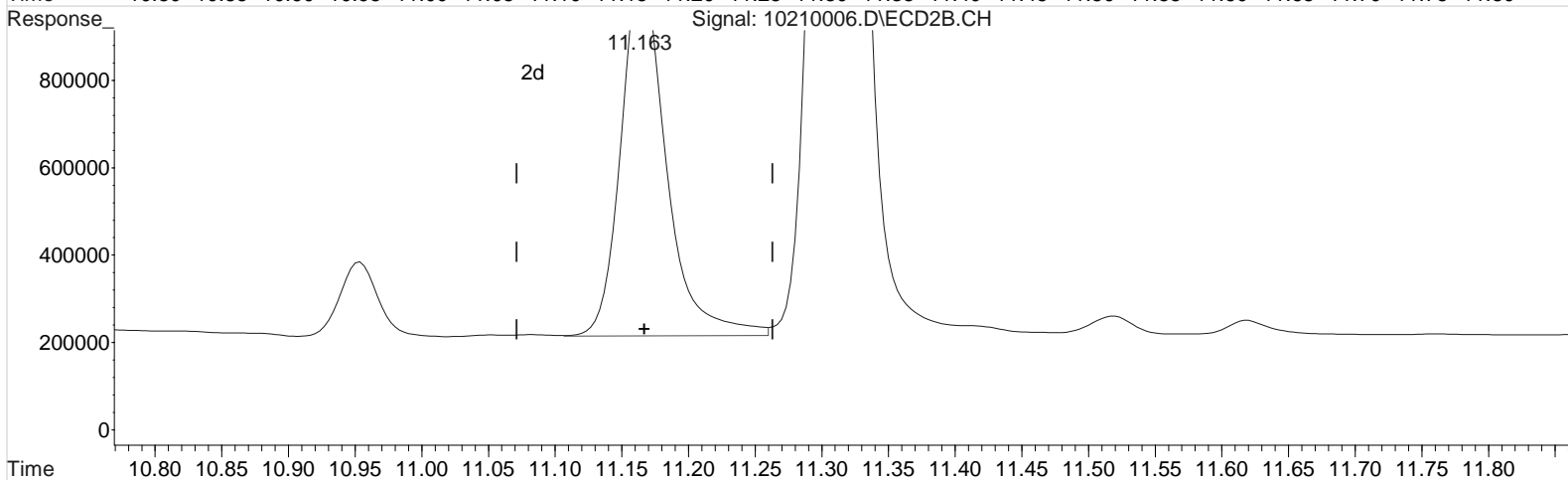
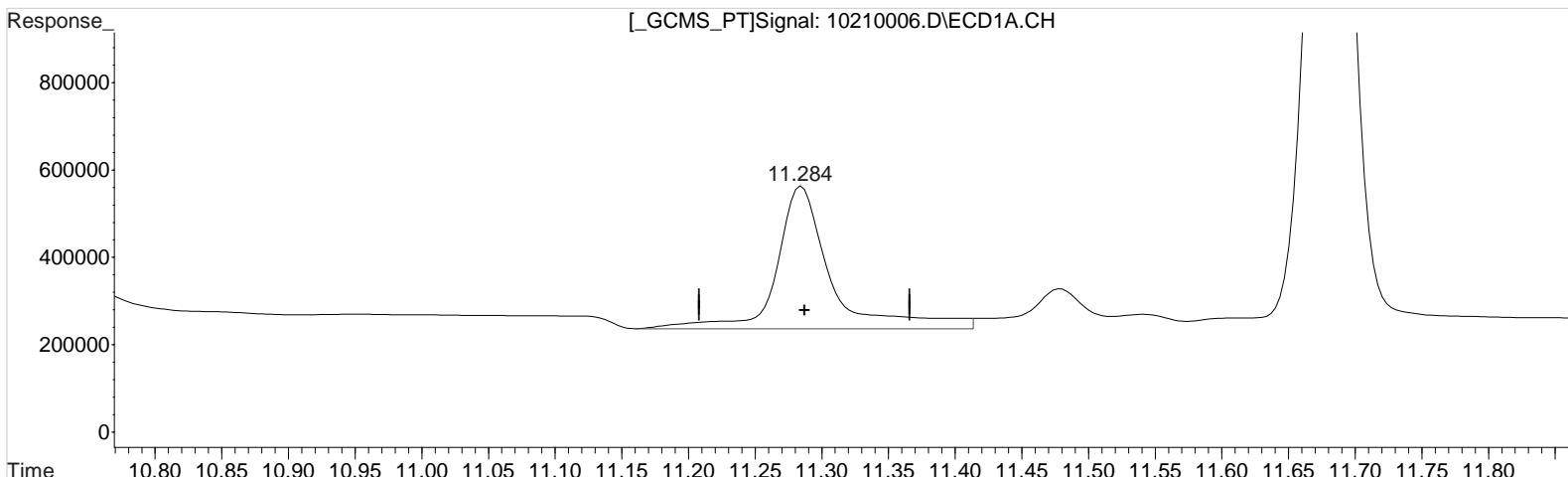
(1) Dalapon #2 (m)
2.873min 67.872 ppb m
response 3208933

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.284min 94.555 ppb
response 930876

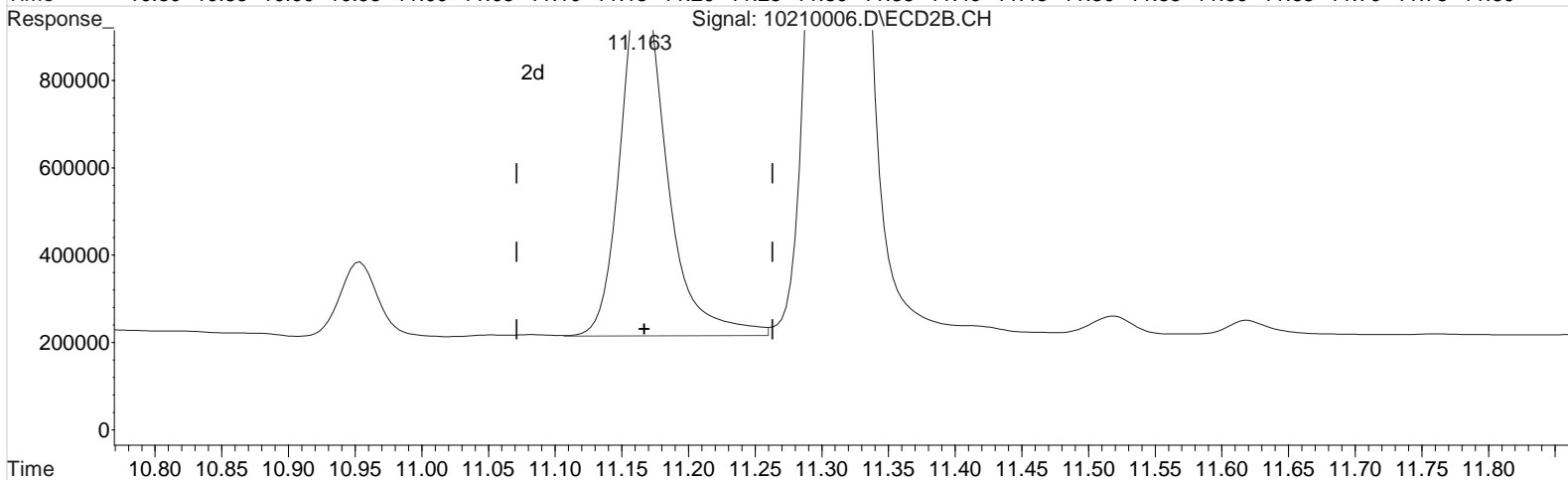
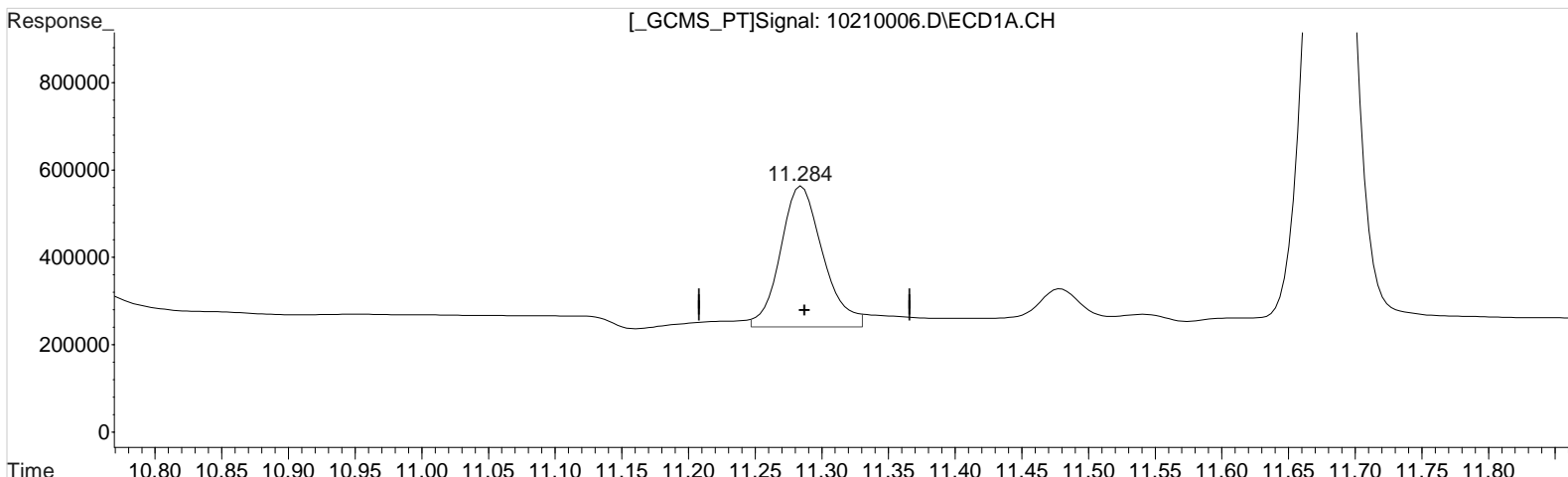
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.163min 72.345 ppb
response 1973095

Data File : J:\gc24\data\102120\10210006.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:33 pm Operator: UA
Sample : PENTA2-14M 75PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:40 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:24:19 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.284min 72.304 ppb m
response 711824

Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.163min 72.345 ppb
response 1973095

Data File : J:\gc24\data\102120\10210007.D Vial: 6
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 2:57 pm Operator: UA
 Sample : PENTA2-14N 100PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:16:06 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:14:34 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.997	7.817	1618486	3565715	90.200	90.200
Target Compounds						
1) m Dalapon	3.127	2.873	2162531	4219125	94.759m	90.872m
3) m Dicamba	8.217	7.917	6478443	13439517	94.000	94.000
4) m MCPP	8.300	8.107	420510	1620847	9386.000	9386.000
5) m MCPA	8.567	8.353	573212	2171147	9346.000	9346.000
6) m Dichloroprop	8.967	8.753	1713548	3718829	94.400	94.400
7) m 2,4-D	9.324	9.057	1932853	4480708	94.000	94.000
8) m 2,4,5-TP ...	10.264	10.130	8853387	18598859	95.100	95.100
9) m 2,4,5-T	10.704	10.530	7699095	17520598	94.800	95.204
10) m 2,4-DB	11.287	11.167	941169	2610405	93.789m	94.700
11) m Dinoseb	11.684	11.313	5699341	12298812	94.500	94.500

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

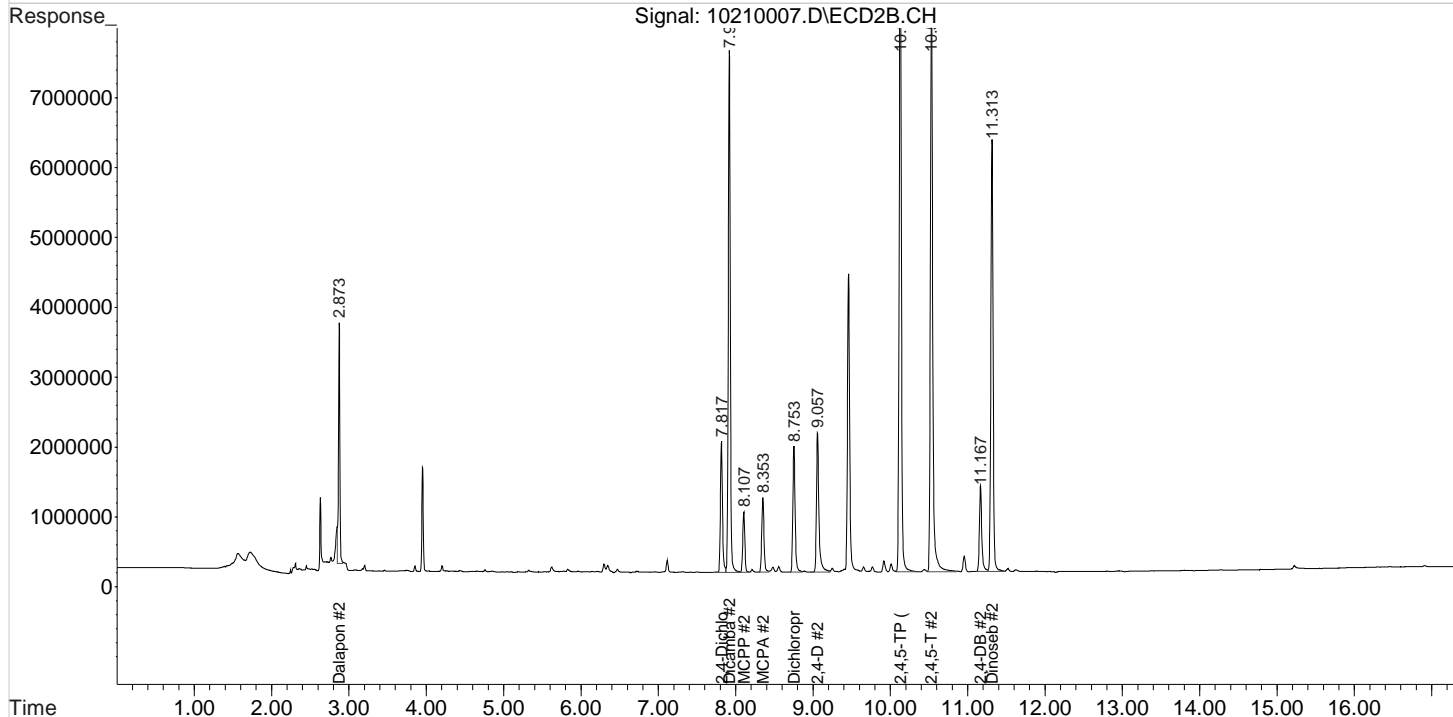
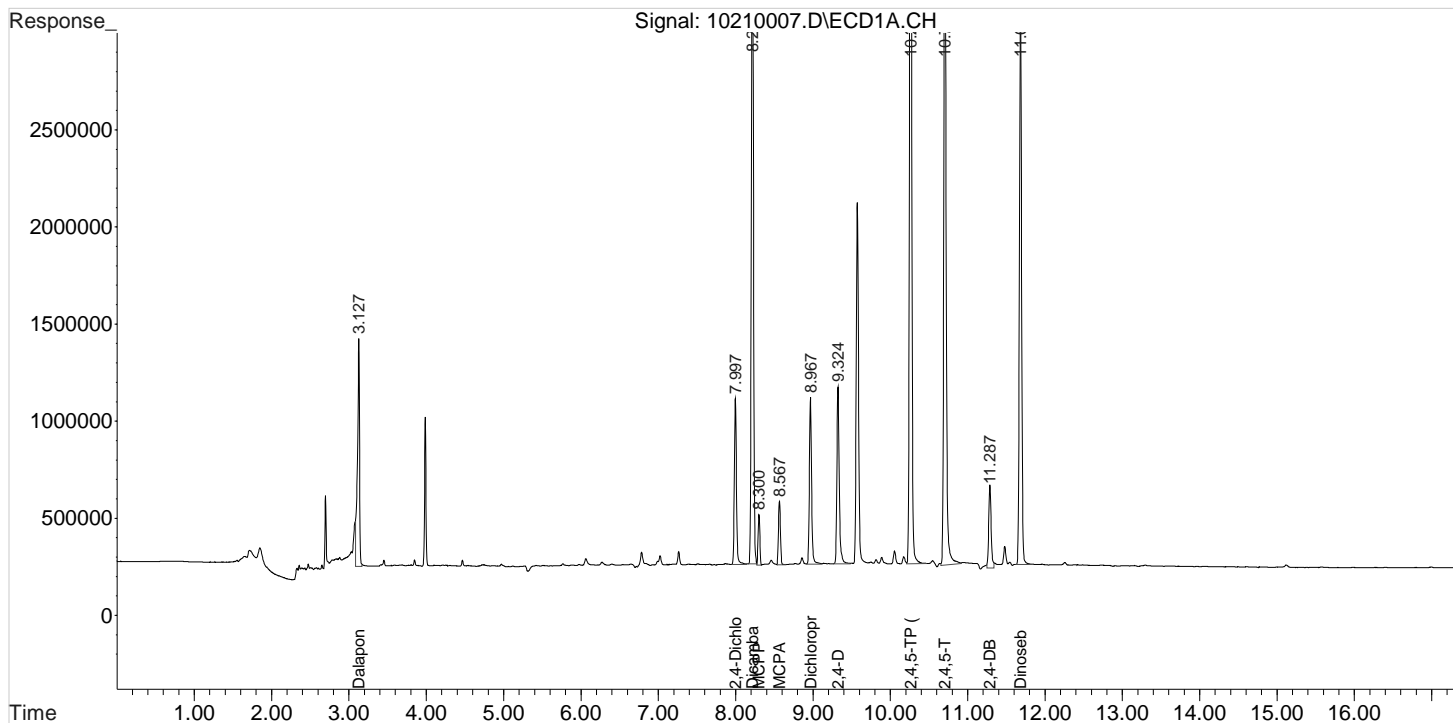
Data File : J:\gc24\data\102120\10210007.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm
Sample : PENTA2-14N 100PB
Misc :

Vial: 6
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:16:06 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

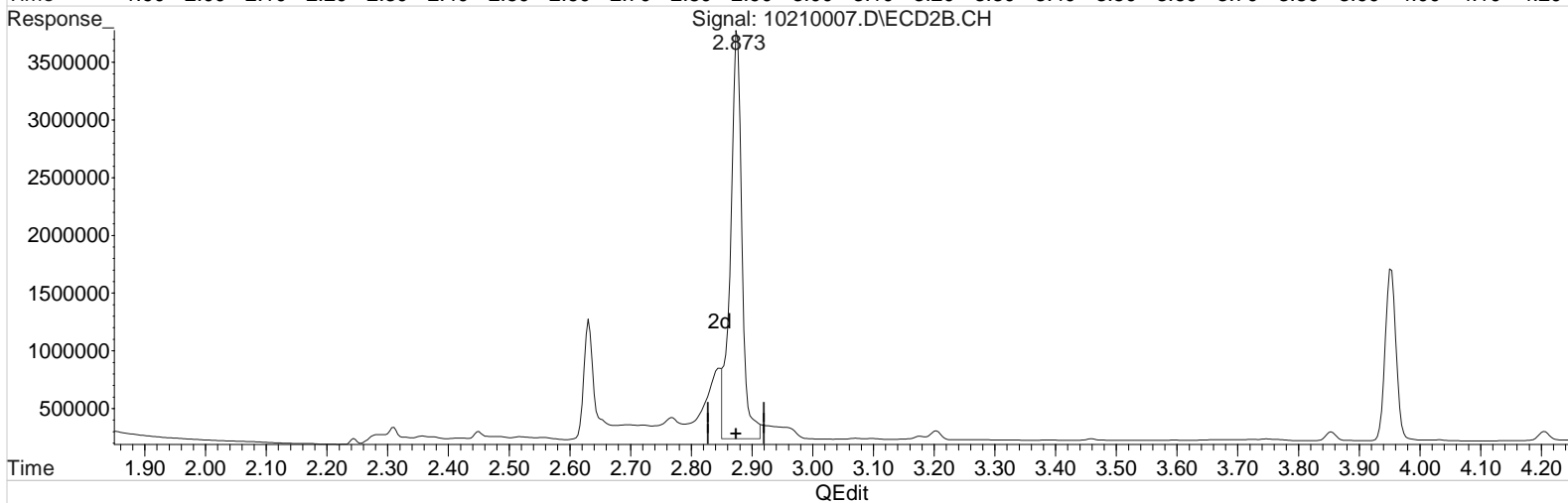
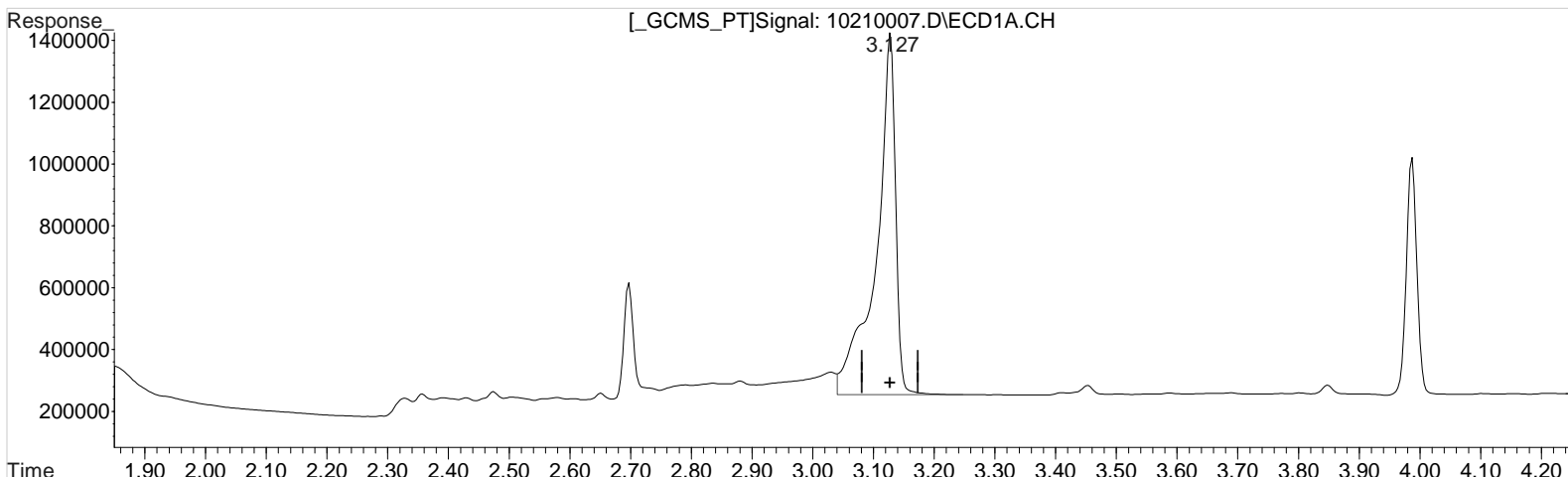
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 16:16:14 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 16:16:08 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 91.100 ppb
response 2583448

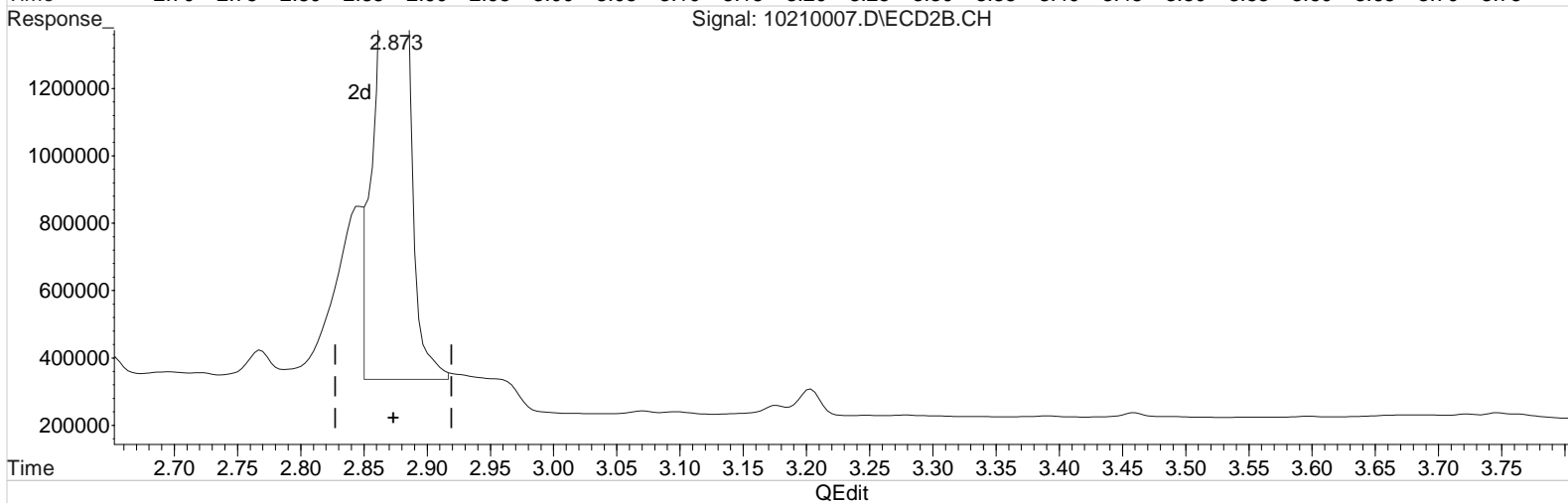
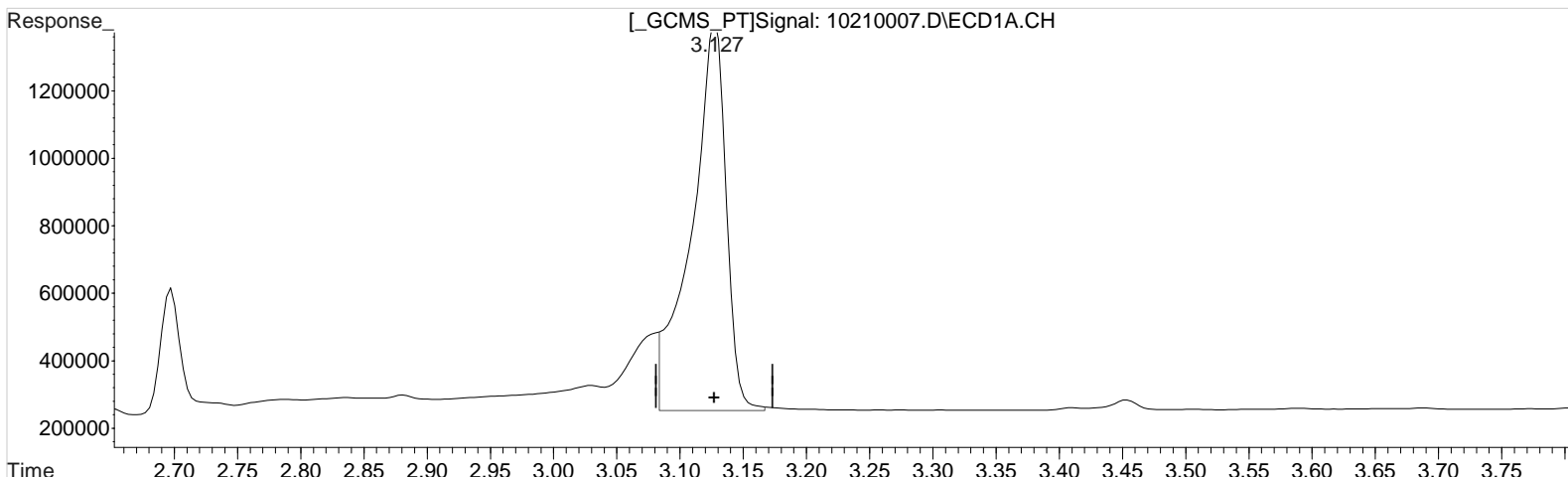
(1) Dalapon #2 (m)
2.873min 90.173 ppb m
response 4587035

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 94.759 ppb m
response 2162531

Manual Integration:
After
Baseline/Shoulder
10/21/20

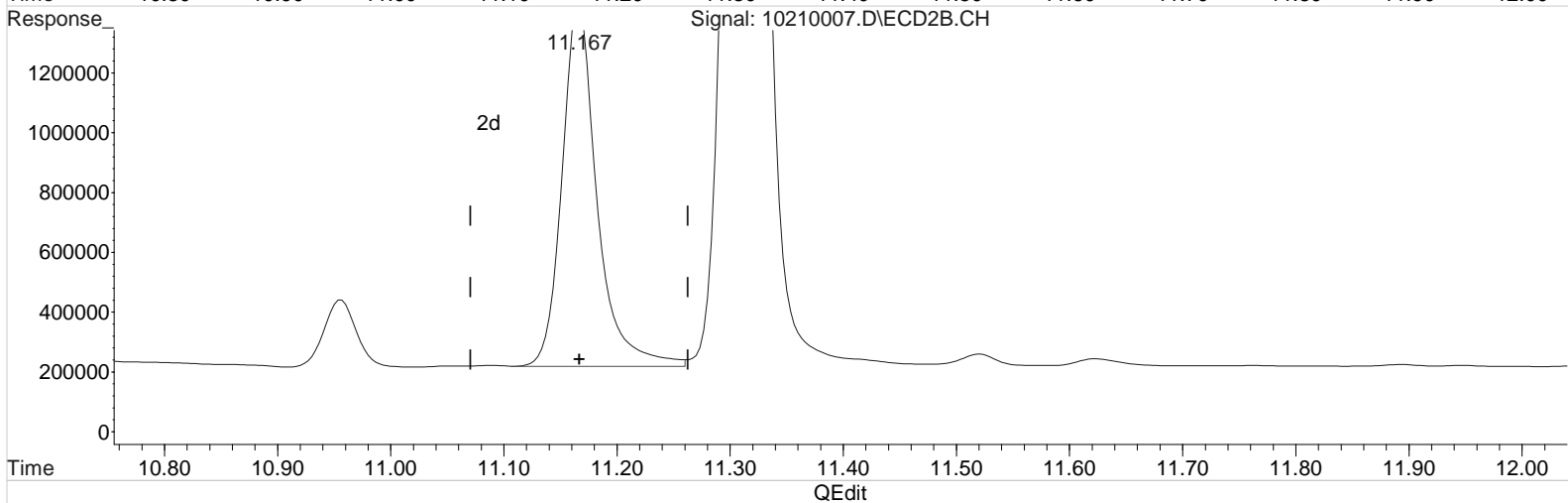
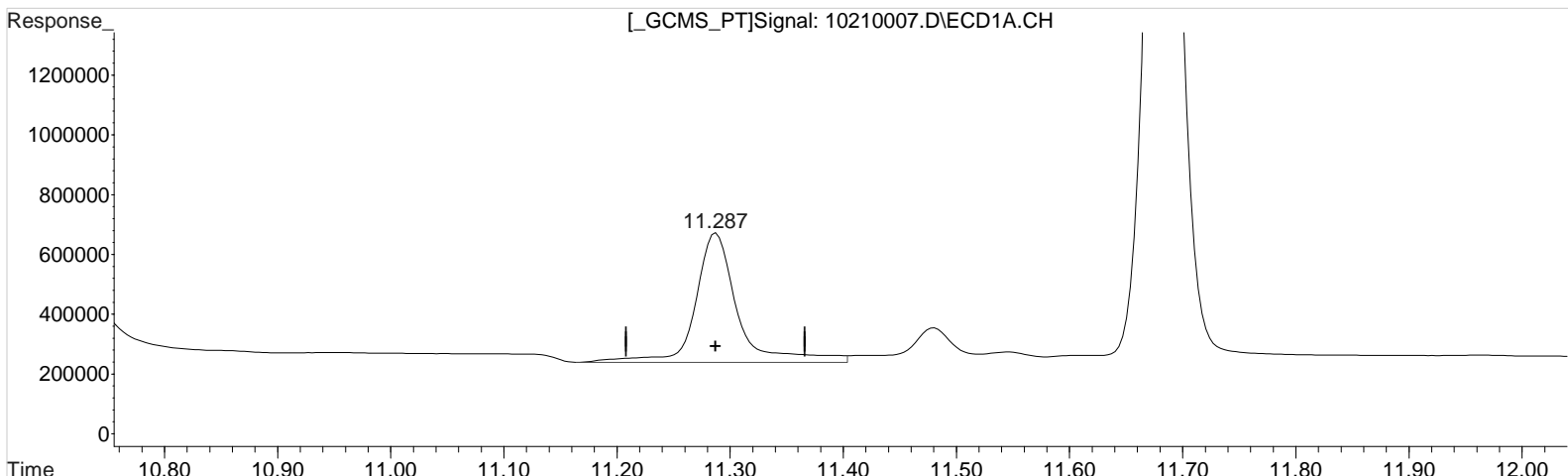
(1) Dalapon #2 (m)
2.873min 90.872 ppb m
response 4219125

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.287min 112.668 ppb
response 1130621

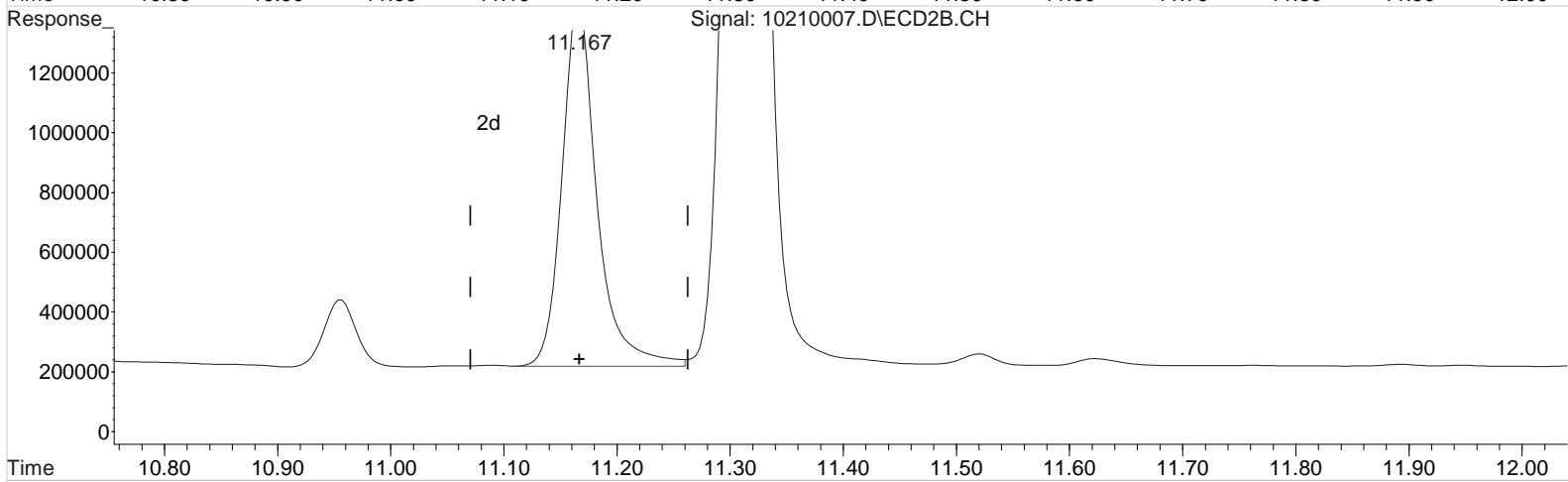
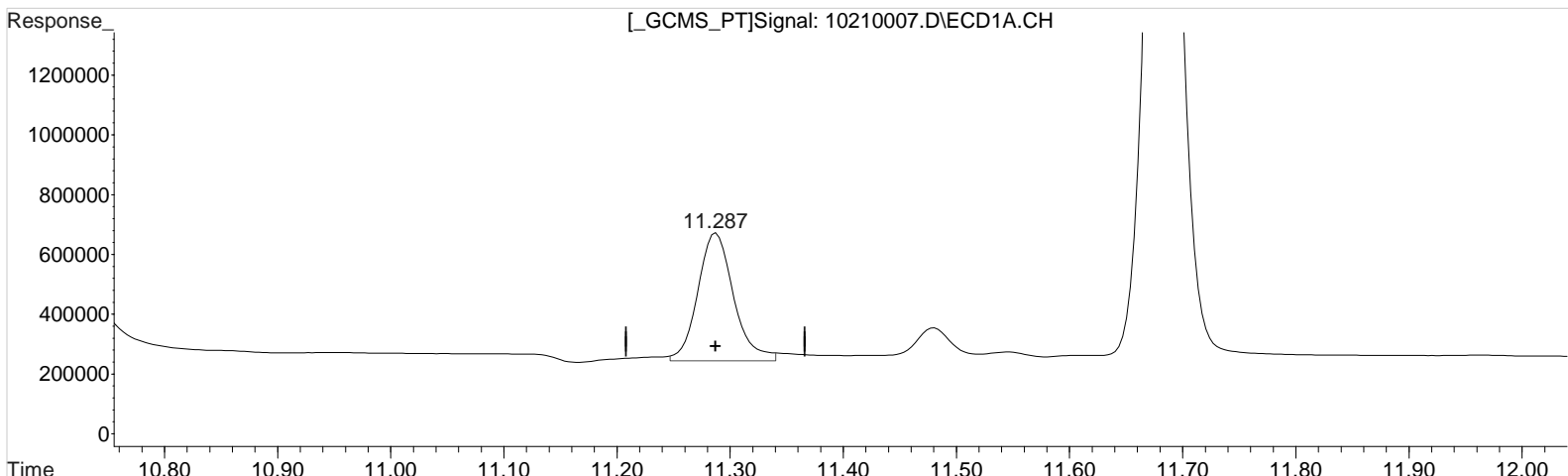
(10) 2,4-DB #2 (m)
11.167min 94.700 ppb
response 2610405

Manual Integration:
Before
10/21/20

Data File : J:\gc24\data\102120\10210007.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 2:57 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:14:42 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:14:34 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.287min 93.789 ppb m
response 941169

(10) 2,4-DB #2 (m)
11.167min 94.700 ppb
response 2610405

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210008.D Vial: 7
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 3:21 pm Operator: UA
 Sample : PENTA2-15A 125PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:24:02 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:22:48 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	1959232	4387572	113.731	114.146
Target Compounds						
1) m Dalapon	3.127	2.873	2668589	5506745	113.511m	117.152m
3) m Dicamba	8.213	7.916	7967267	16745862	117.390	117.694
4) m MCPP	8.300	8.106	522627	1929619	11655.124	12187.501
5) m MCPA	8.563	8.350	704455	2590948	11685.949	12109.753
6) m Dichloroprop	8.963	8.750	2070717	4562901	118.745	119.464
7) m 2,4-D	9.320	9.056	2385344	5502448	118.932	118.917
8) m 2,4,5-TP ...	10.260	10.126	10956862	23161274	118.135	118.763
9) m 2,4,5-T	10.703	10.530	9647622	21578156	119.497	117.574
10) m 2,4-DB	11.283	11.166	1184989	3225586	120.887m	118.254
11) m Dinoseb	11.680	11.313	7044640	15278779	118.457	118.795

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

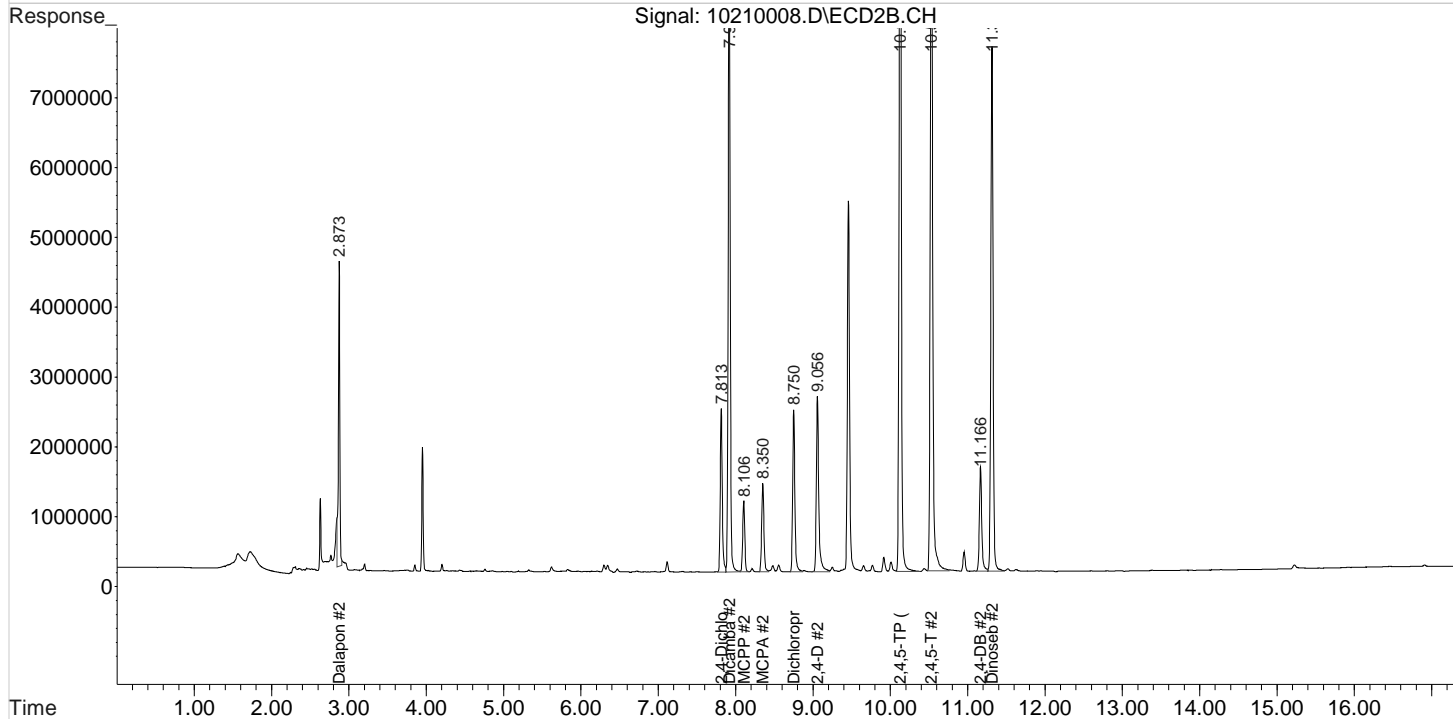
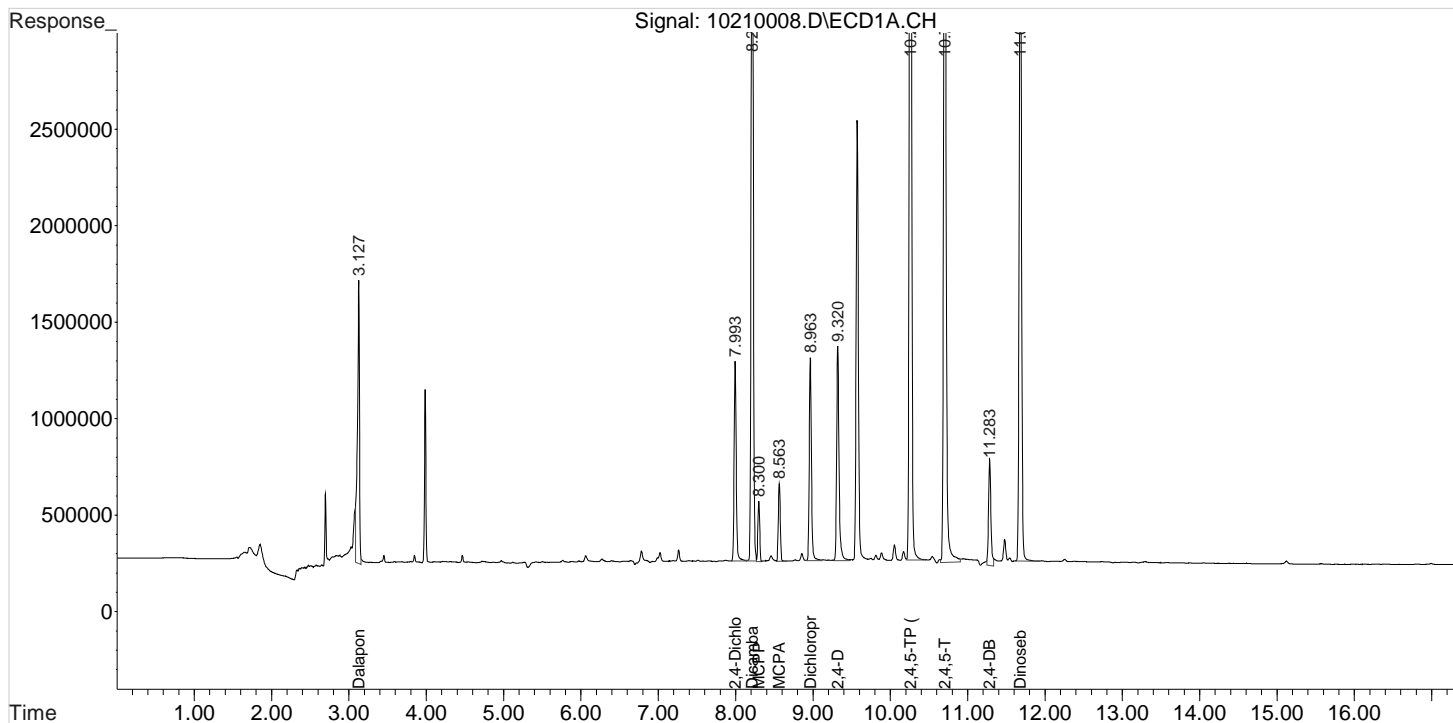
Data File : J:\gc24\data\102120\10210008.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm
Sample : PENTA2-15A 125PB
Misc :

Vial: 7
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:24:02 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

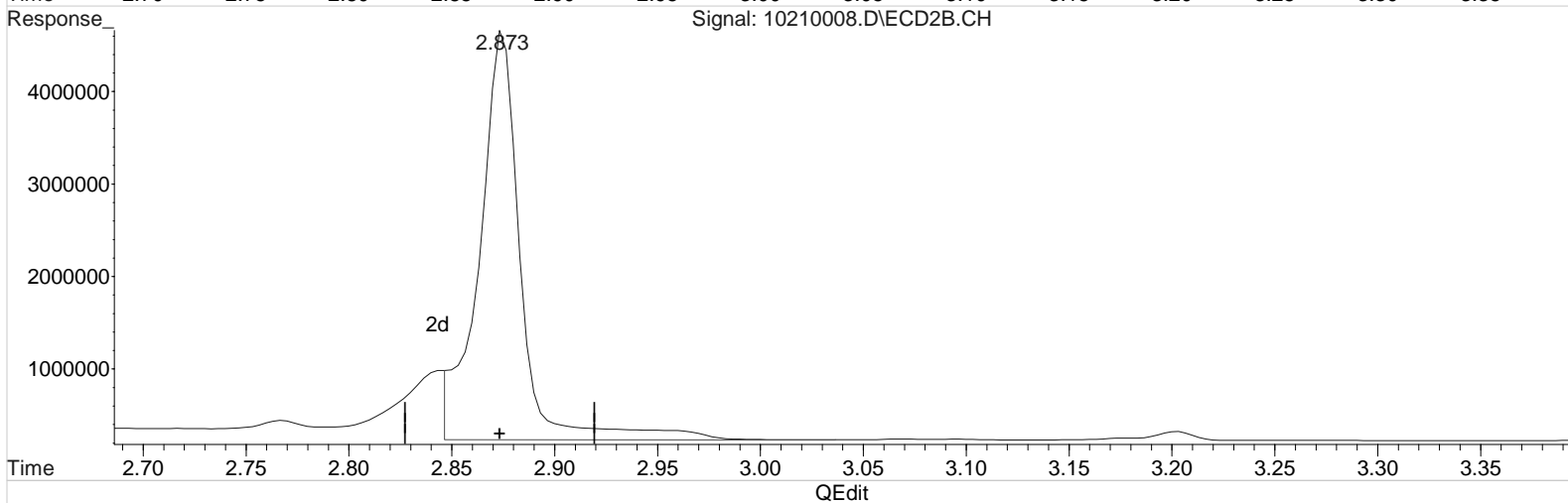
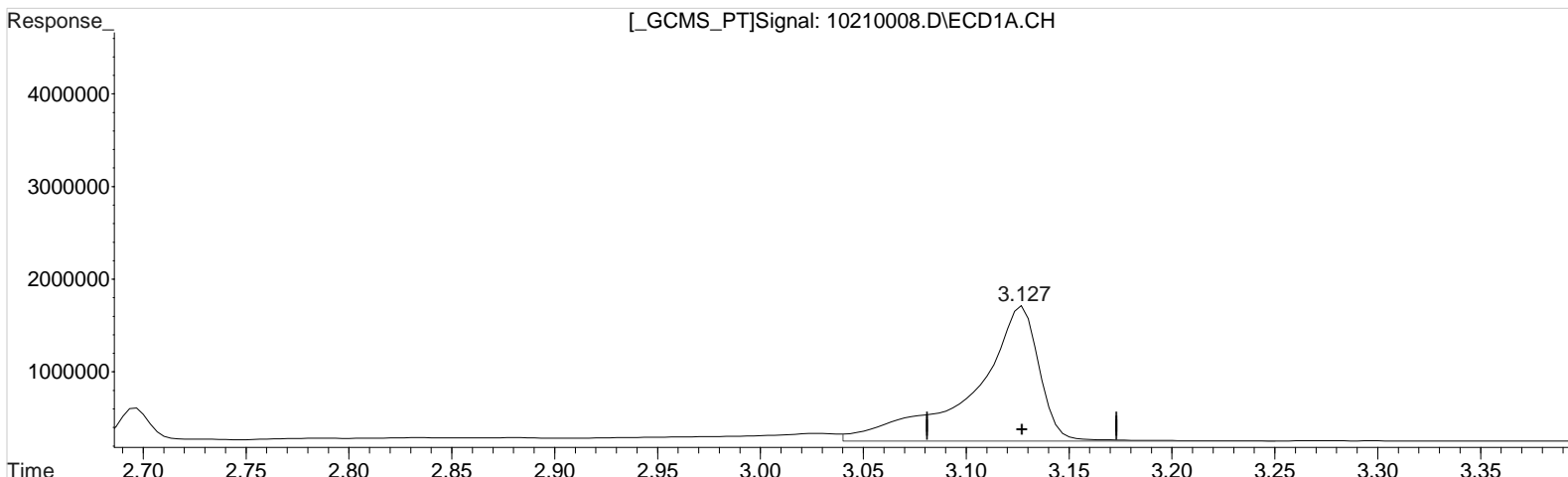
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 135.159 ppb
response 3177545

Manual Integration:
Before
10/21/20

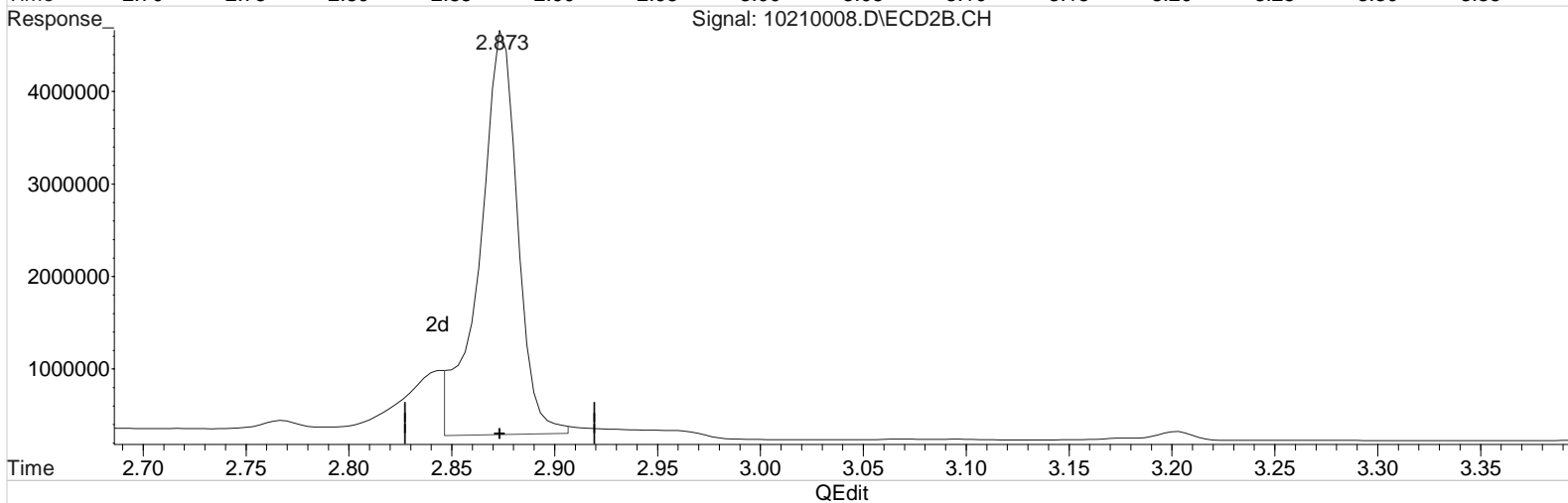
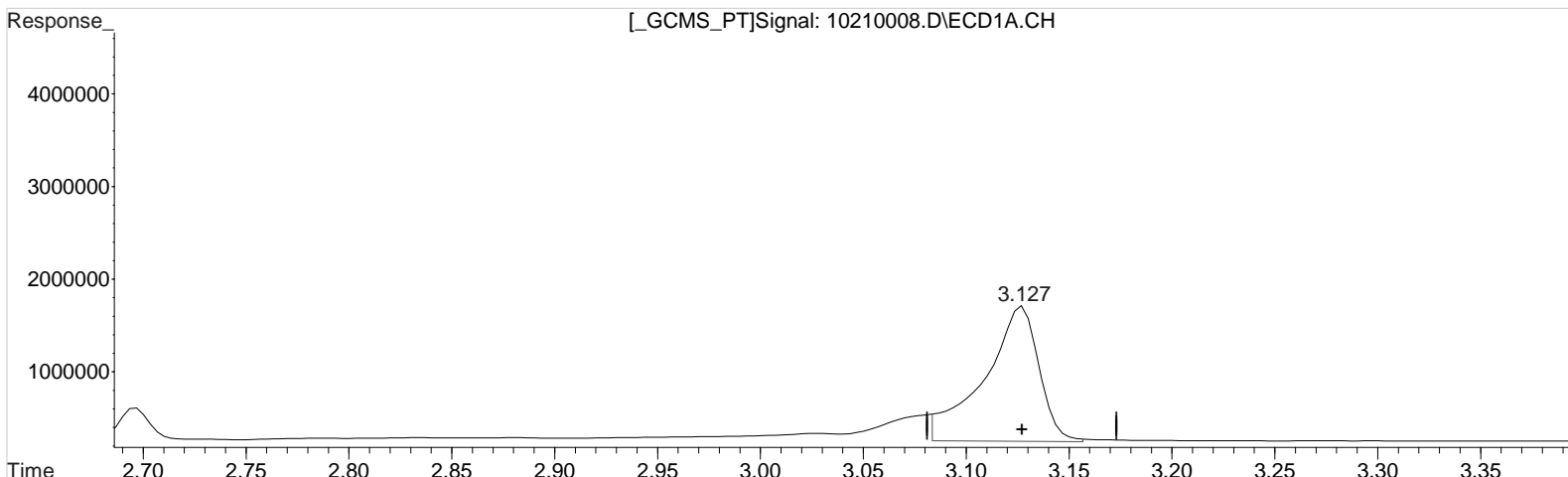
(1) Dalapon #2 (m)
2.873min 131.218 ppb
response 6167907

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 113.511 ppb m
response 2668589

Manual Integration:
After
Baseline/Shoulder
10/21/20

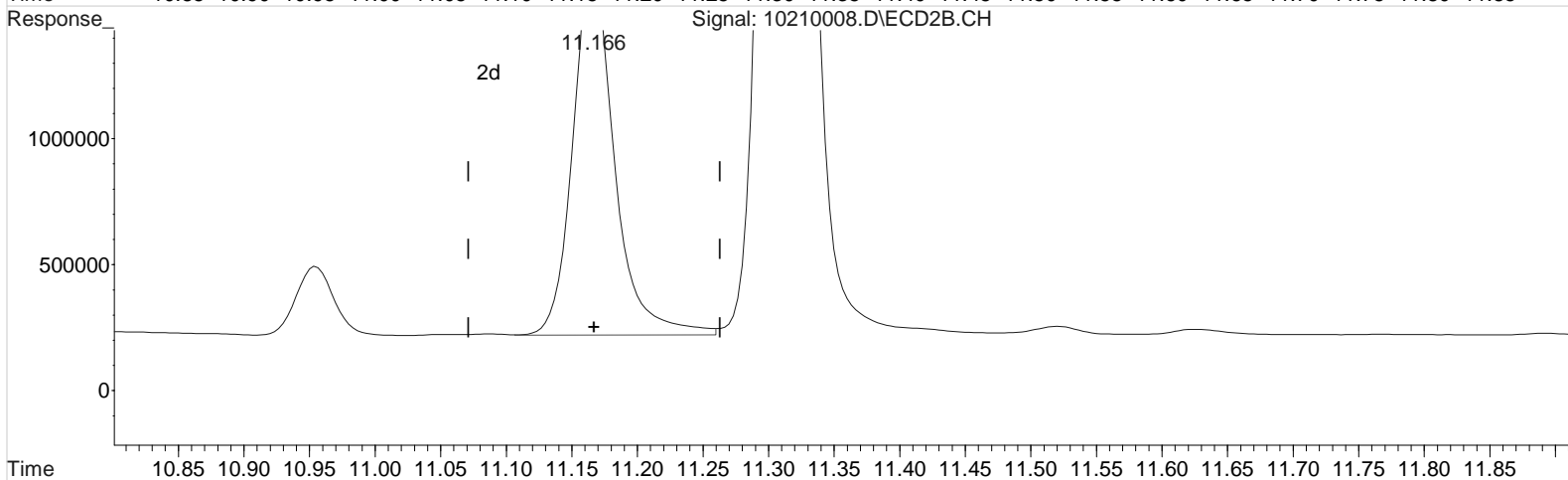
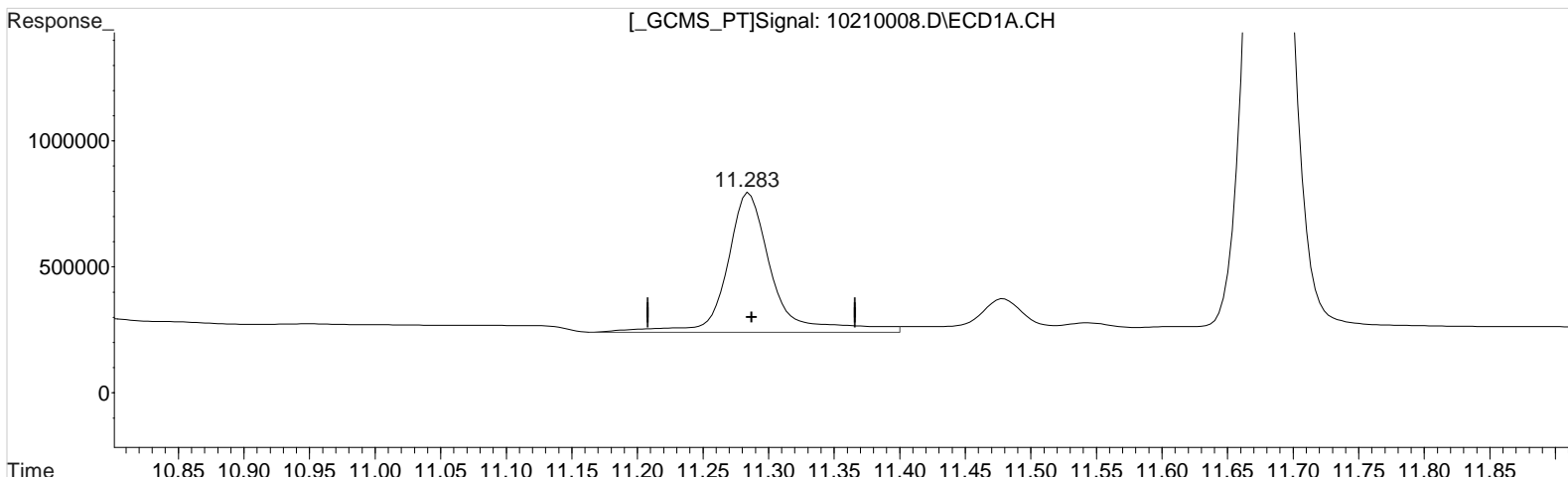
(1) Dalapon #2 (m)
2.873min 117.152 ppb m
response 5506745

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 135.786 ppb
response 1331036

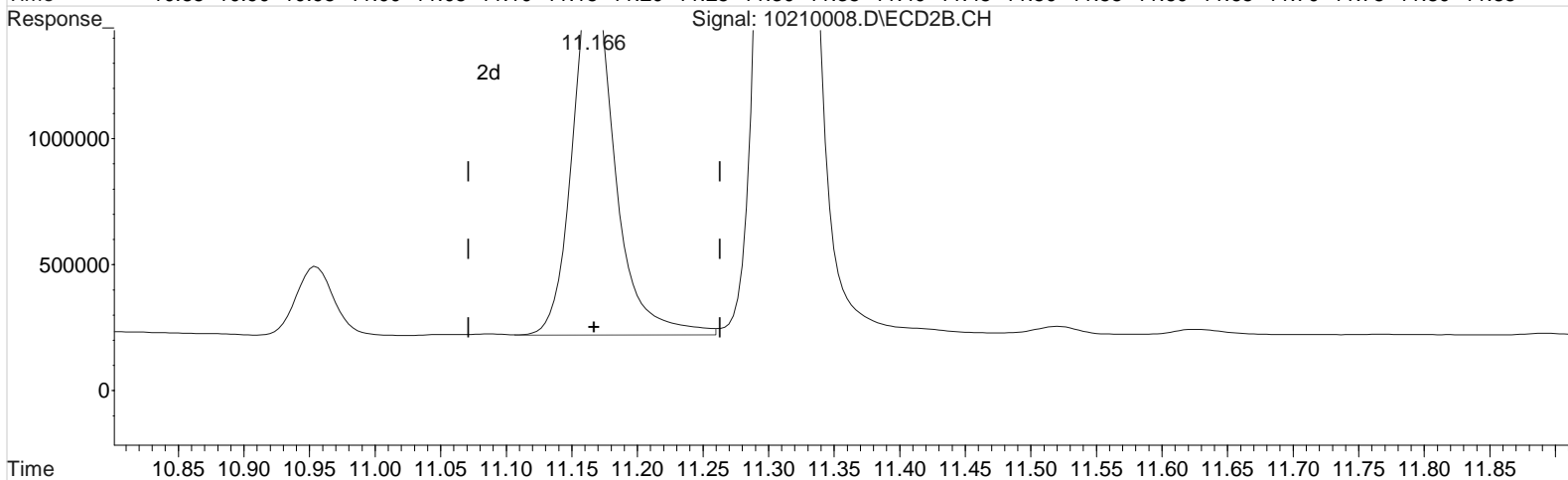
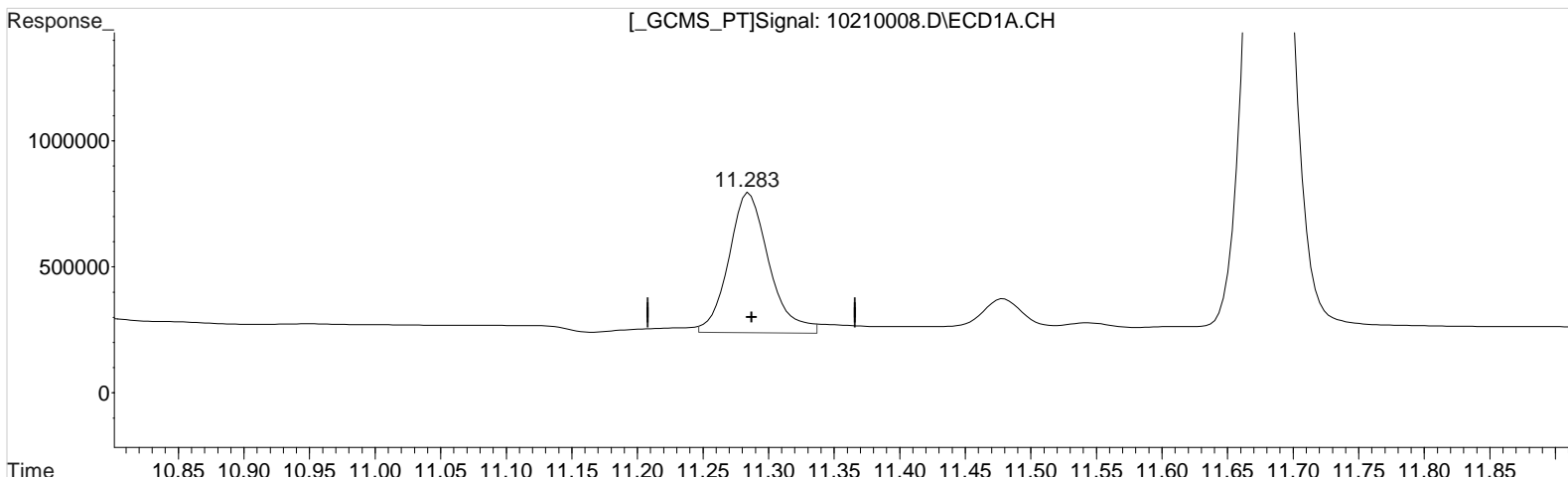
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.166min 118.254 ppb
response 3225586

Data File : J:\gc24\data\102120\10210008.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:21 pm Operator: UA
Sample : PENTA2-15A 125PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:59 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:22:48 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 120.887 ppb m
response 1184989

Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.166min 118.254 ppb
response 3225586

Data File : J:\gc24\data\102120\10210009.D Vial: 8
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 3:44 pm Operator: UA
 Sample : PENTA2-15B 150PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:22:31 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:20:52 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	2343632	5169864	136.302	134.240
Target Compounds						
1) m Dalapon	3.127	2.873	3258567	6370947	139.287m	135.187m
3) m Dicamba	8.213	7.916	9633232	19969572	142.235	140.119
4) m MCPP	8.297	8.103	633683	2215911	14149.230	13967.949
5) m MCPA	8.563	8.350	847585	2986150	14073.890	13936.089
6) m Dichloroprop	8.963	8.750	2480194	5391085	142.454	141.013
7) m 2,4-D	9.320	9.056	2855823	6510874	142.843	140.598
8) m 2,4,5-TP ...	10.260	10.126	13345050	27761527	144.324	142.275
9) m 2,4,5-T	10.703	10.530	11750806	26085006	146.702	142.112
10) m 2,4-DB	11.283	11.163	1423732	3879490	146.356m	142.303
11) m Dinoseb	11.680	11.310	8545635	18219499	144.368	141.640

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

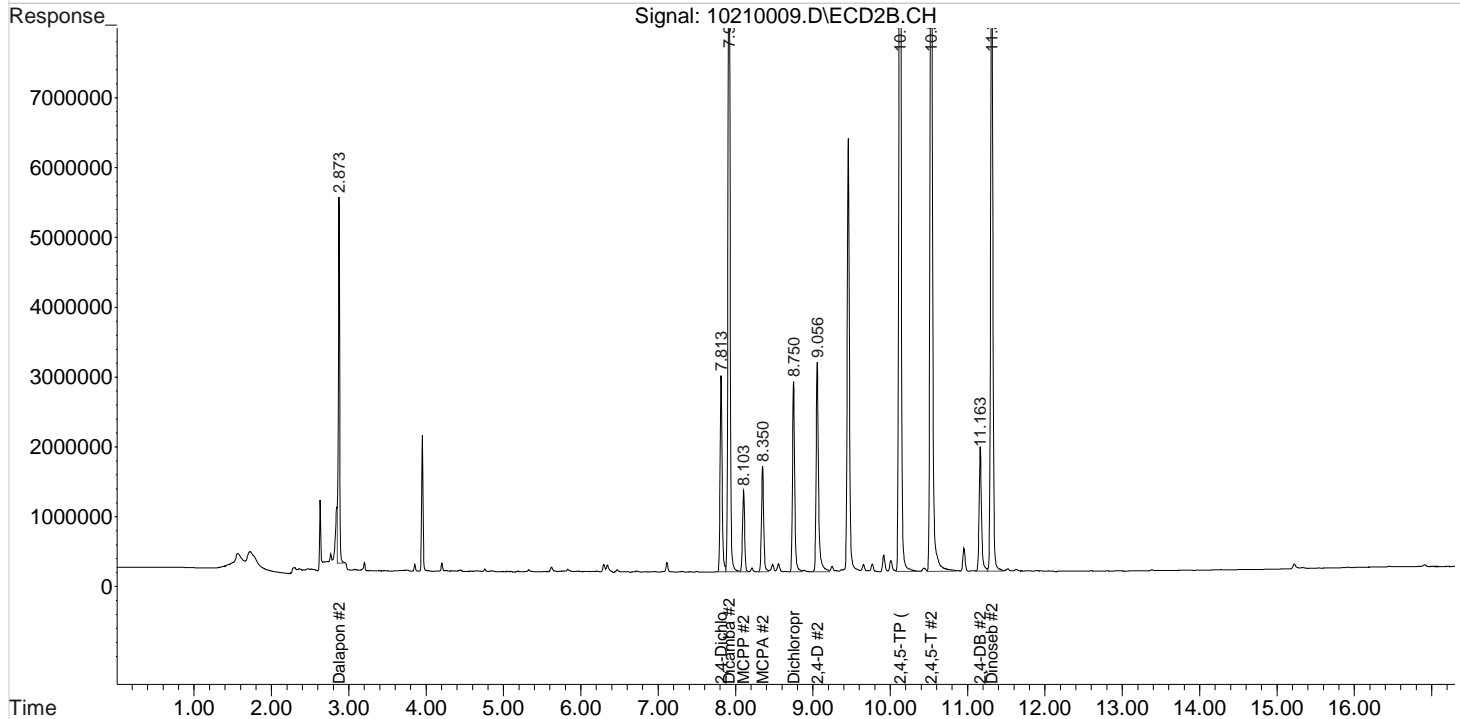
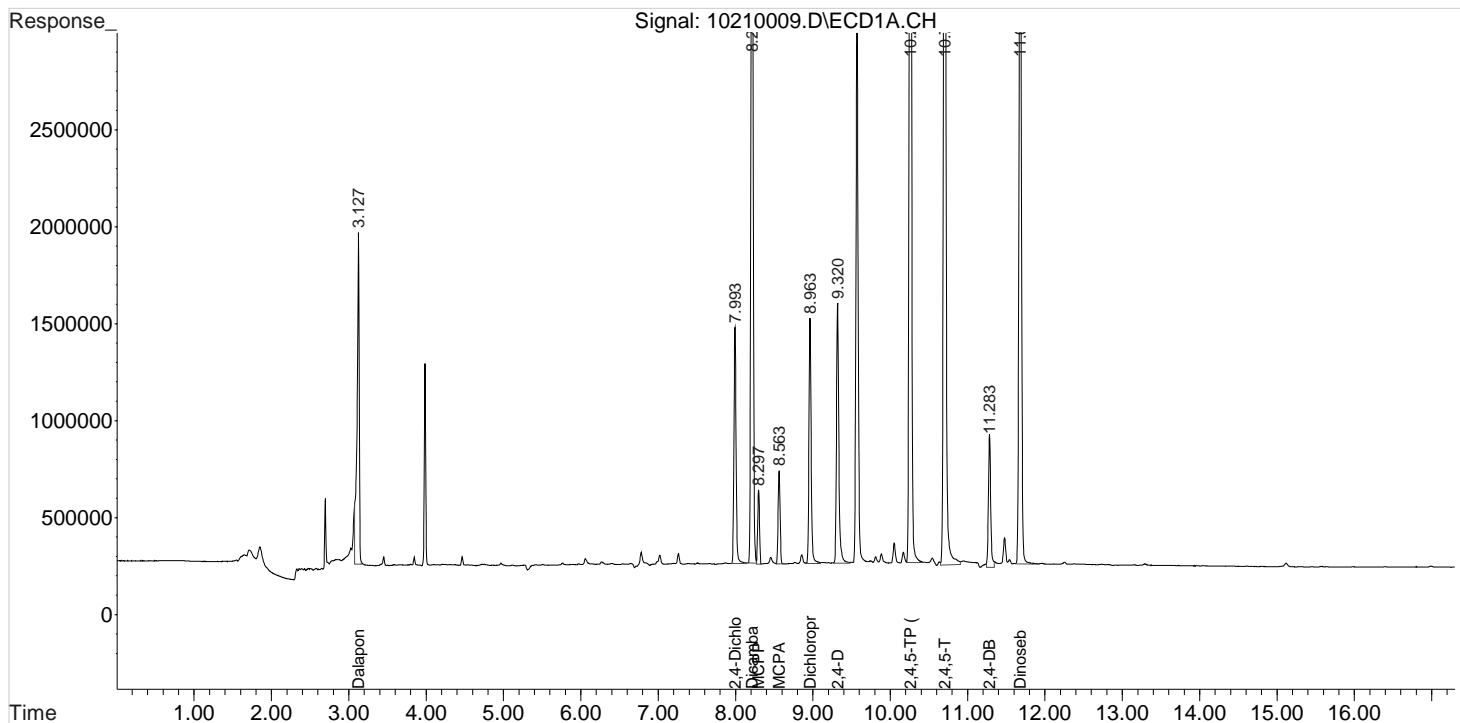
Data File : J:\gc24\data\102120\10210009.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm
Sample : PENTA2-15B 150PB
Misc :

Vial: 8
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:22:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

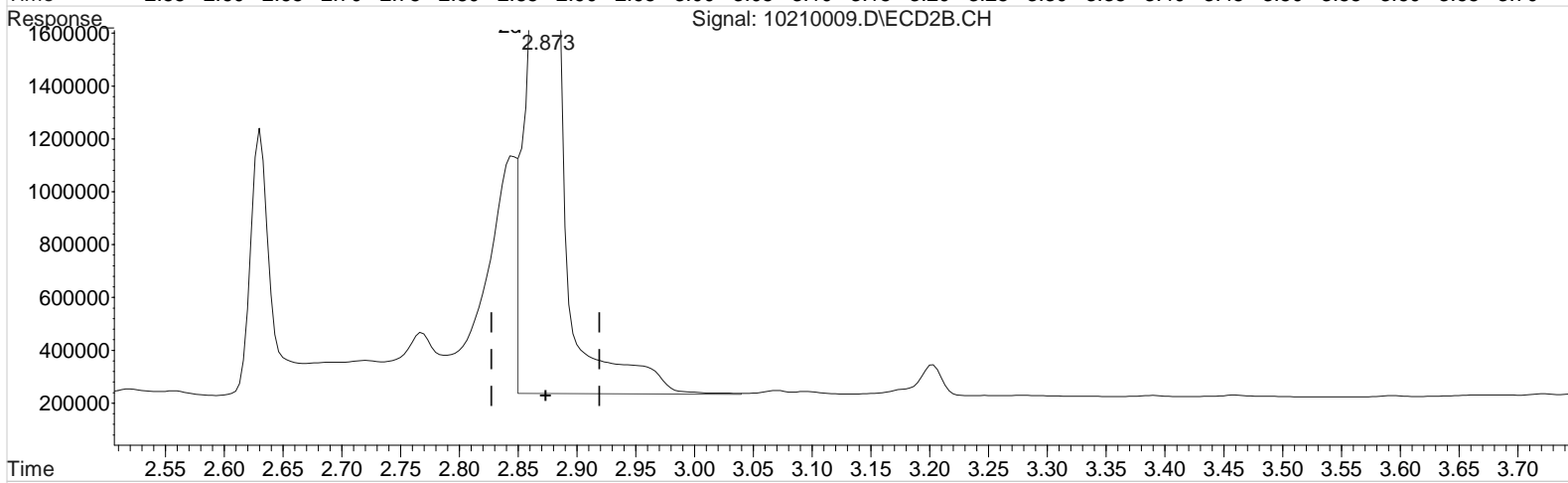
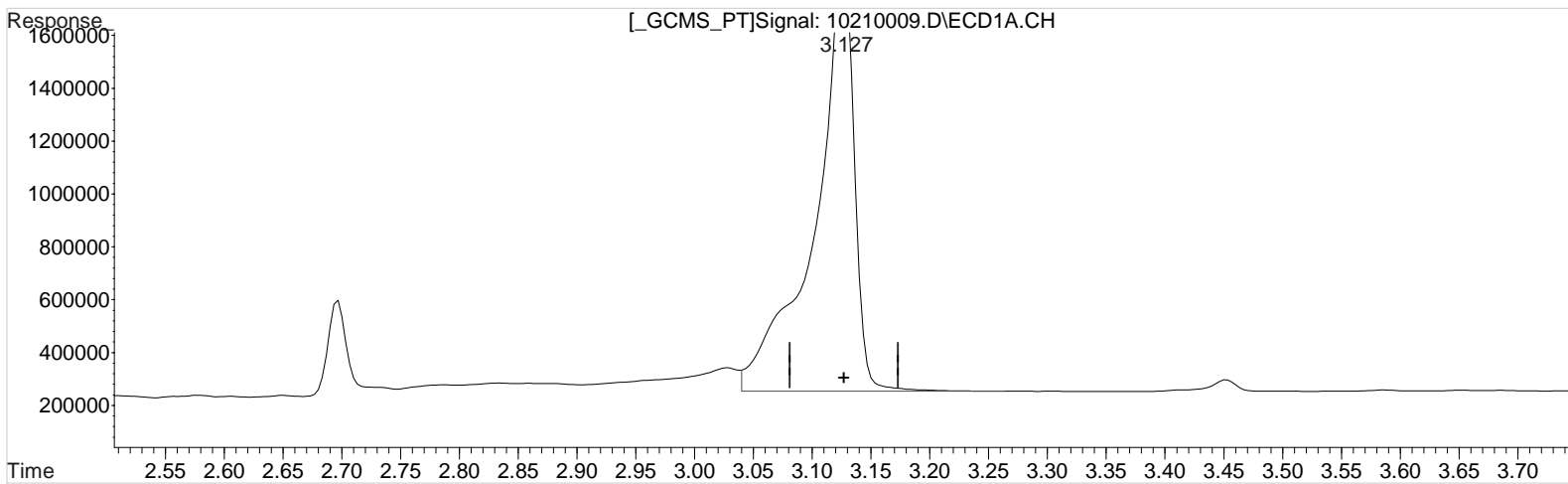
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(1) Dalapon (m)
3.127min 160.523 ppb
response 3755373

Manual Integration:
Before
10/21/20

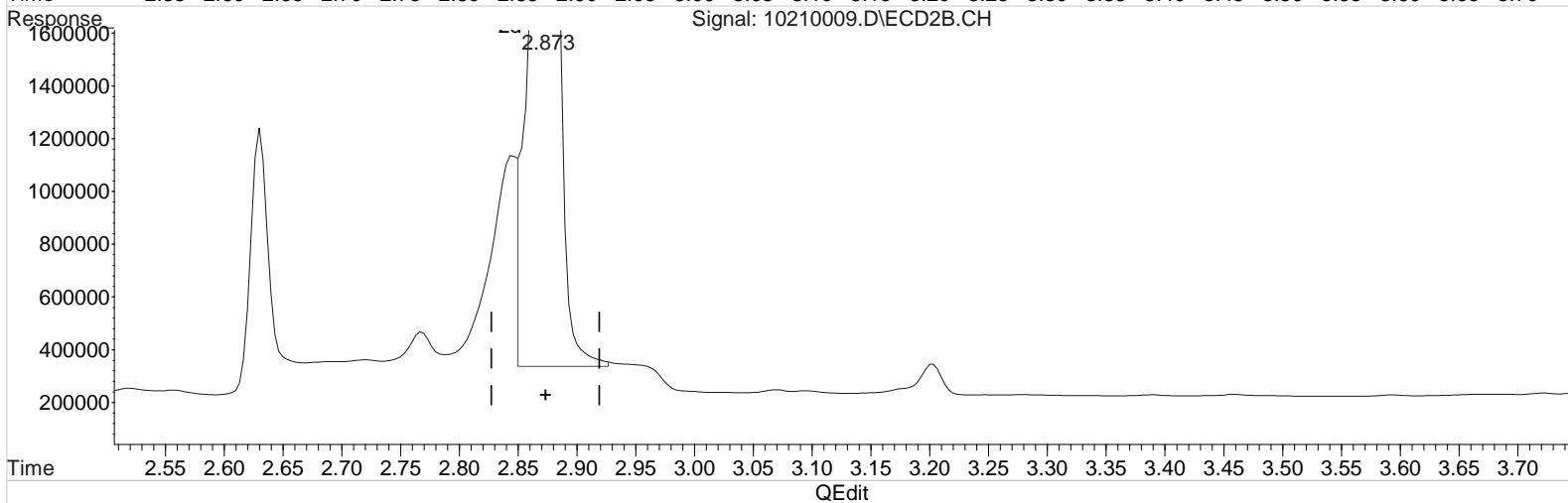
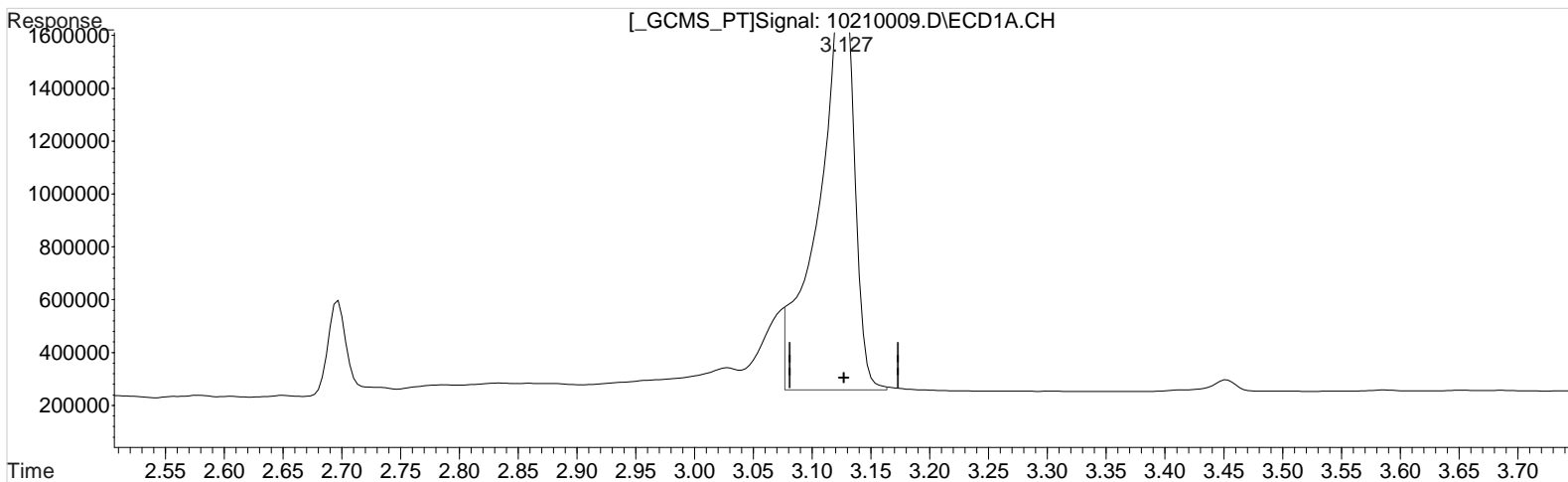
(1) Dalapon #2 (m)
2.873min 151.774 ppb
response 7152678

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.127min 139.287 ppb m
response 3258567

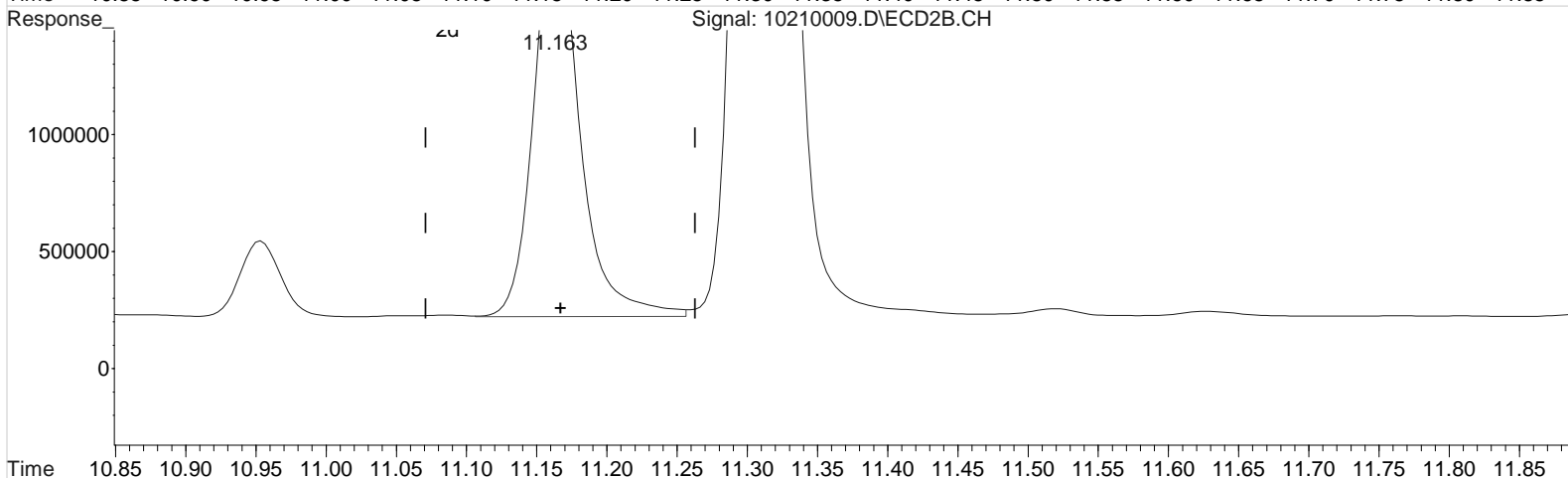
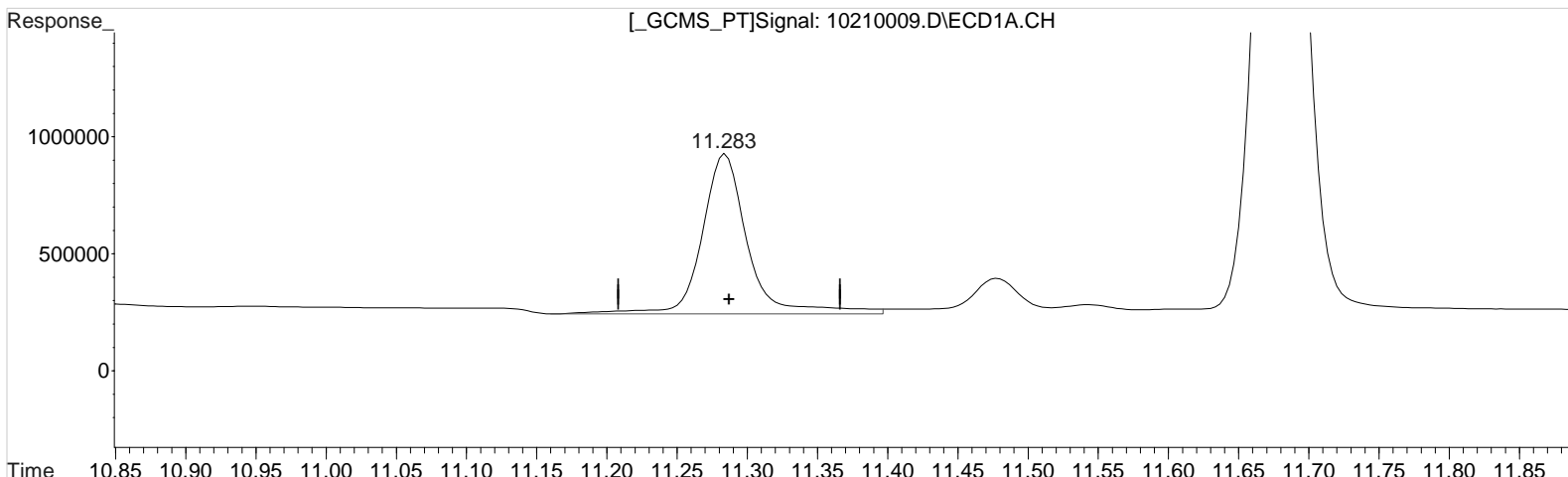
Manual Integration:
After
Baseline/Shoulder
10/21/20

(1) Dalapon #2 (m)
2.873min 135.187 ppb m
response 6370947

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 160.143 ppb
response 1557848

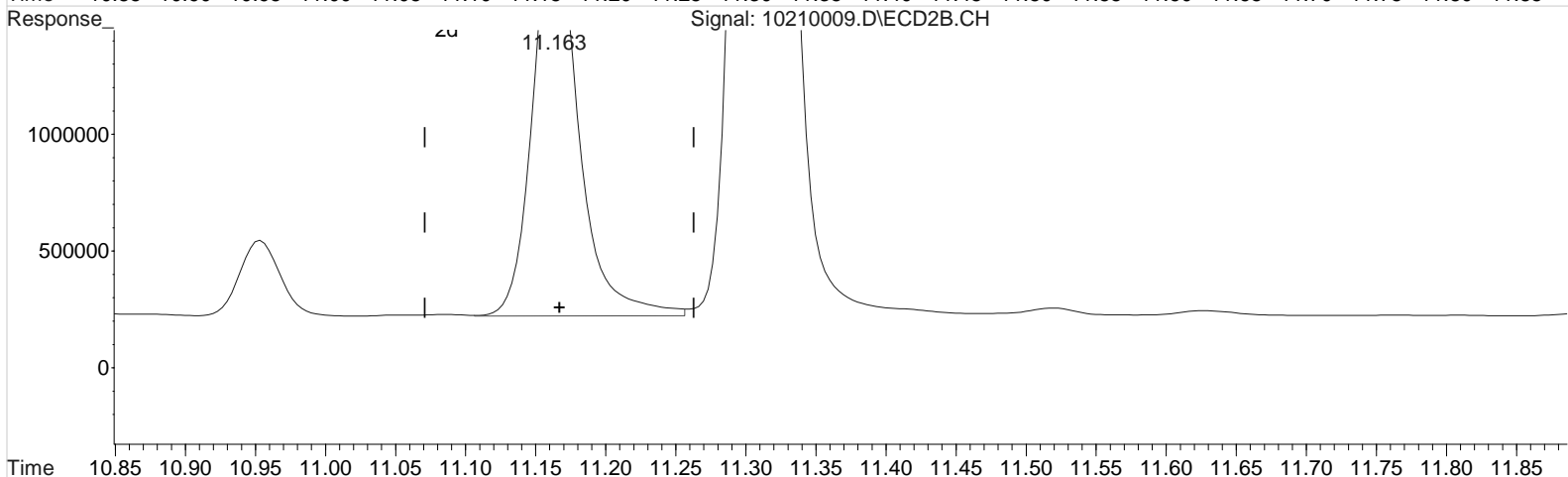
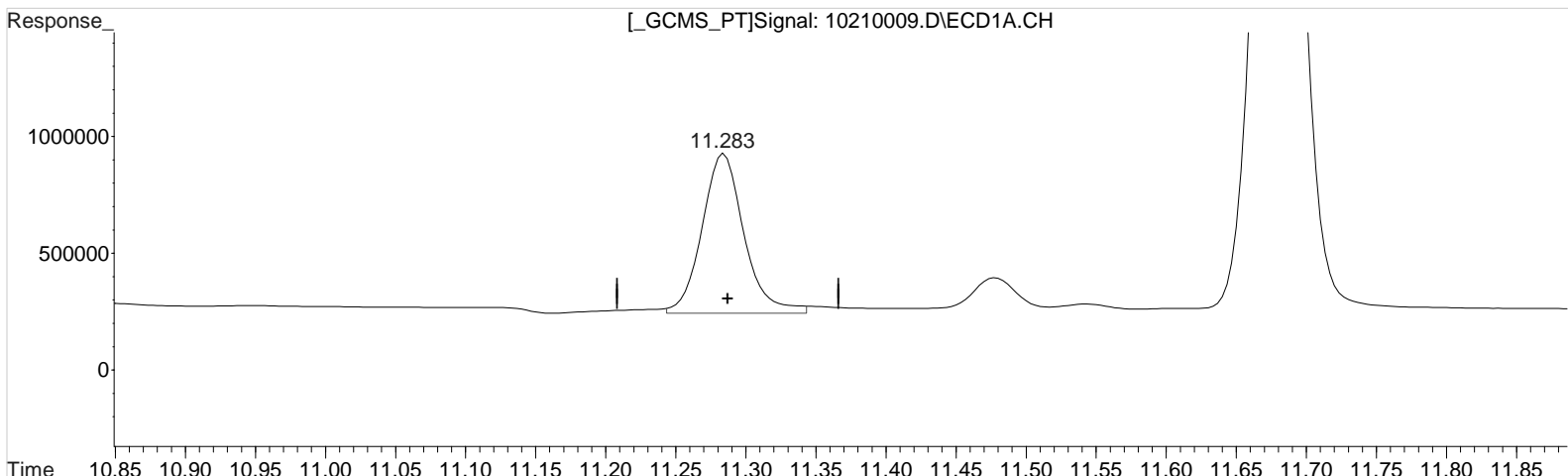
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.163min 142.303 ppb
response 3879490

Data File : J:\gc24\data\102120\10210009.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 3:44 pm Operator: UA
Sample : PENTA2-15B 150PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:21:21 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:20:52 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(10) 2,4-DB (m)
11.283min 146.356 ppb m
response 1423732

(10) 2,4-DB #2 (m)
11.163min 142.303 ppb
response 3879490

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210010.D Vial: 9
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:08 pm Operator: UA
 Sample : PENTA2-15C 175PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:20:38 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:19:22 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.993	7.813	2673899	6019072	154.374	155.532
Target Compounds						
1) m Dalapon	3.126	2.873	3756341	7607536	161.174m	162.479m
3) m Dicamba	8.213	7.916	11056277	23365839	162.598	163.645
4) m MCPP	8.300	8.106	732283	2515897	16313.328	15589.638
5) m MCPA	8.563	8.353	977526	3389231	16169.886	15560.846
6) m Dichloroprop	8.963	8.749	2846415	6241057	162.675	162.314
7) m 2,4-D	9.320	9.056	3276369	7528670	163.538	161.603
8) m 2,4,5-TP ...	10.260	10.129	15378740	32362961	166.306	165.616
9) m 2,4,5-T	10.703	10.529	13208642	30332986	164.413	164.939
10) m 2,4-DB	11.283	11.163	1631284	4482448	168.722m	163.801
11) m Dinoseb	11.683	11.313	9738174	21149943	164.104	163.966

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

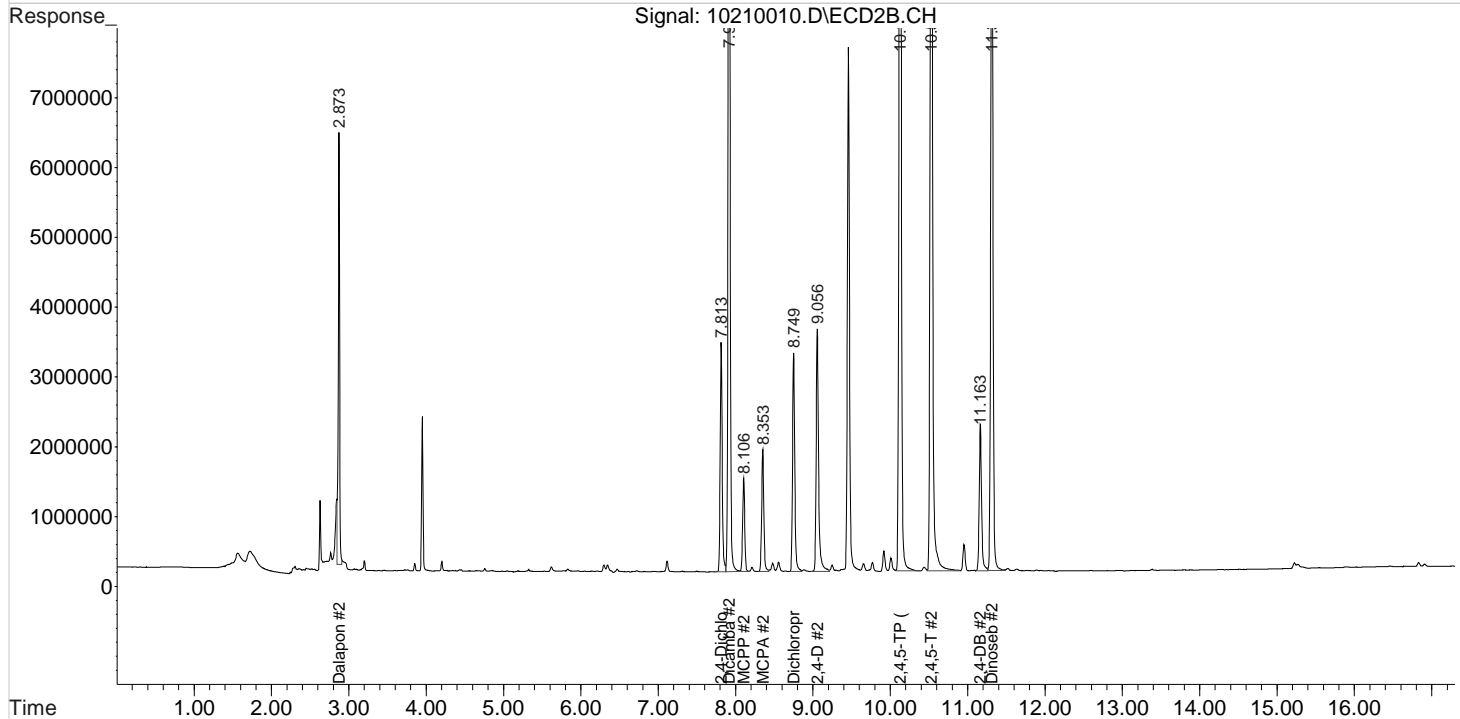
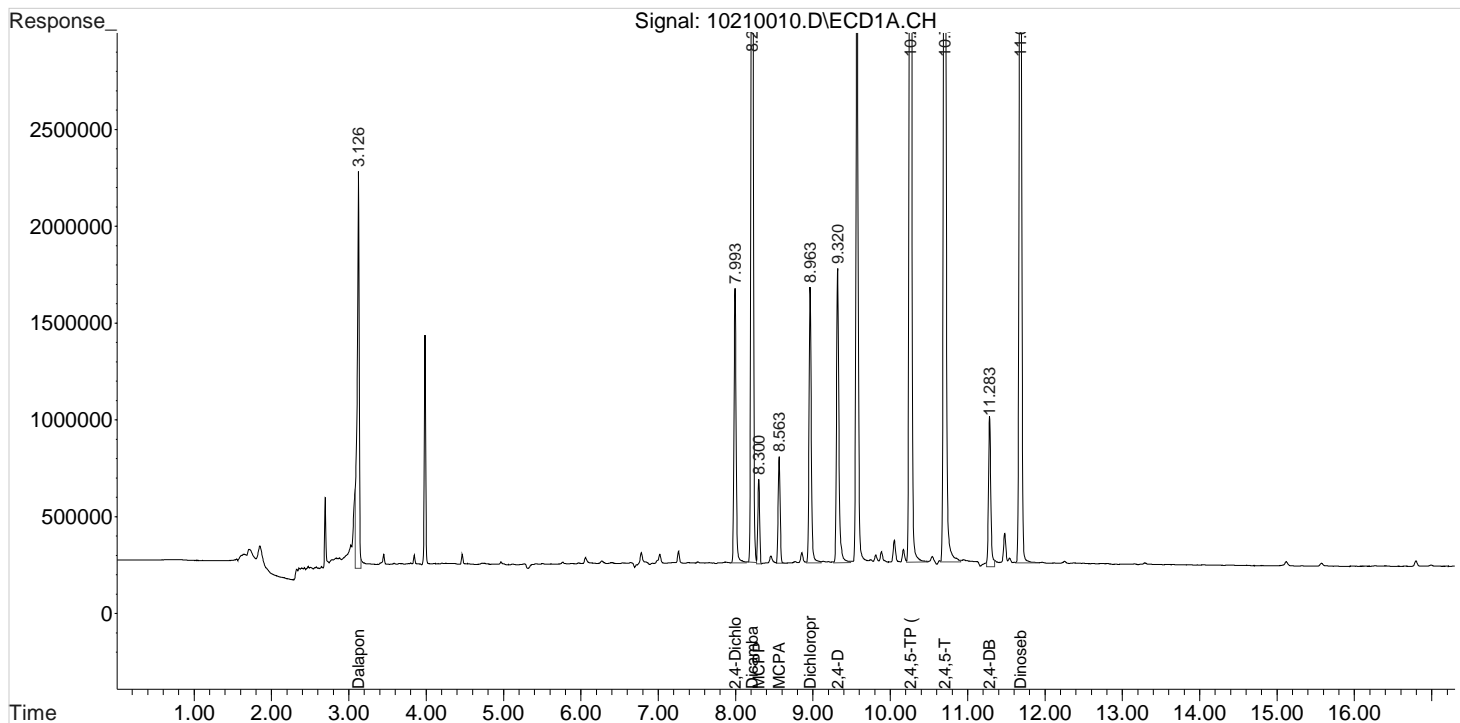
Data File : J:\gc24\data\102120\10210010.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm
Sample : PENTA2-15C 175PB
Misc :

Vial: 9
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:20:38 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

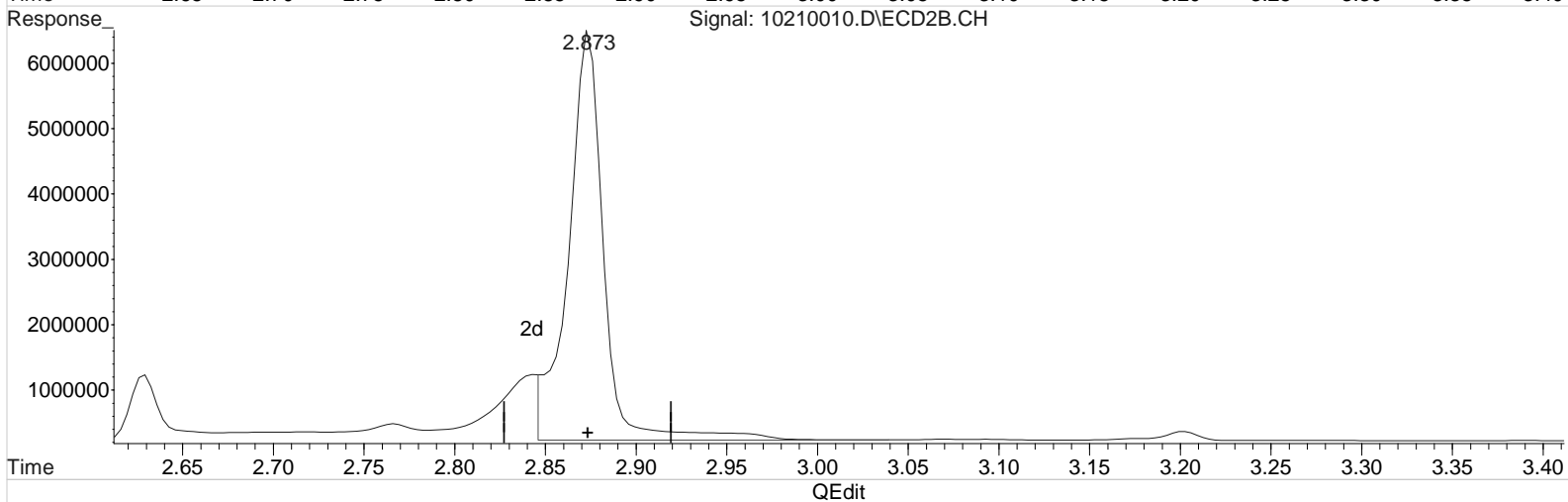
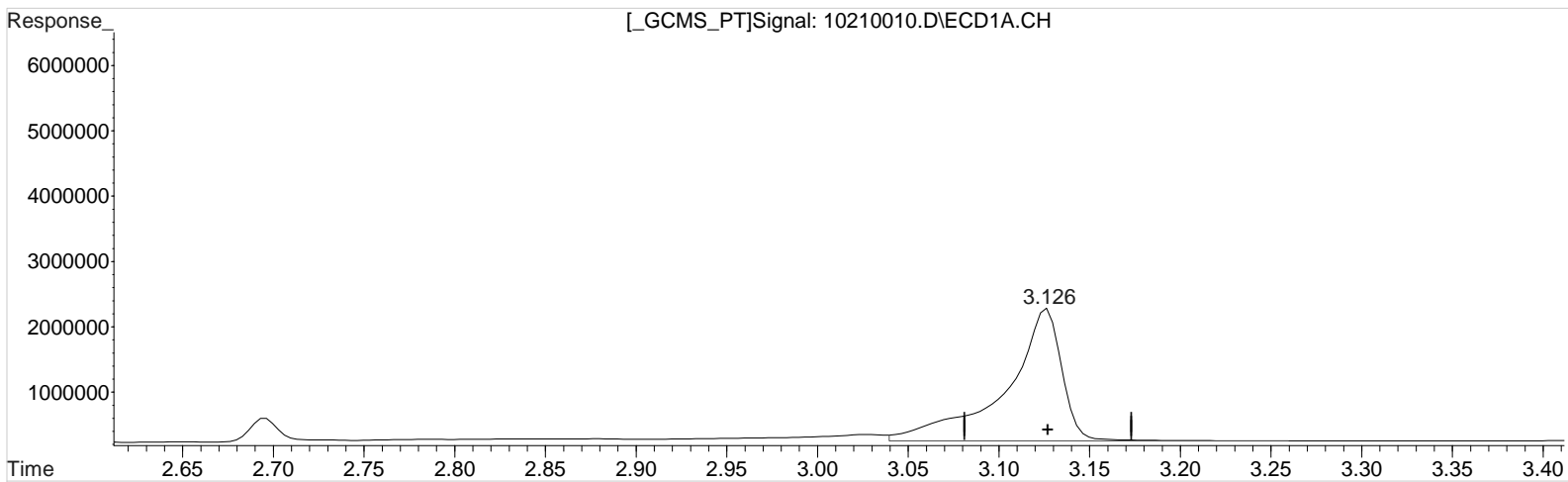
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.126min 186.524 ppb
response 4347148

Manual Integration:
Before
10/21/20

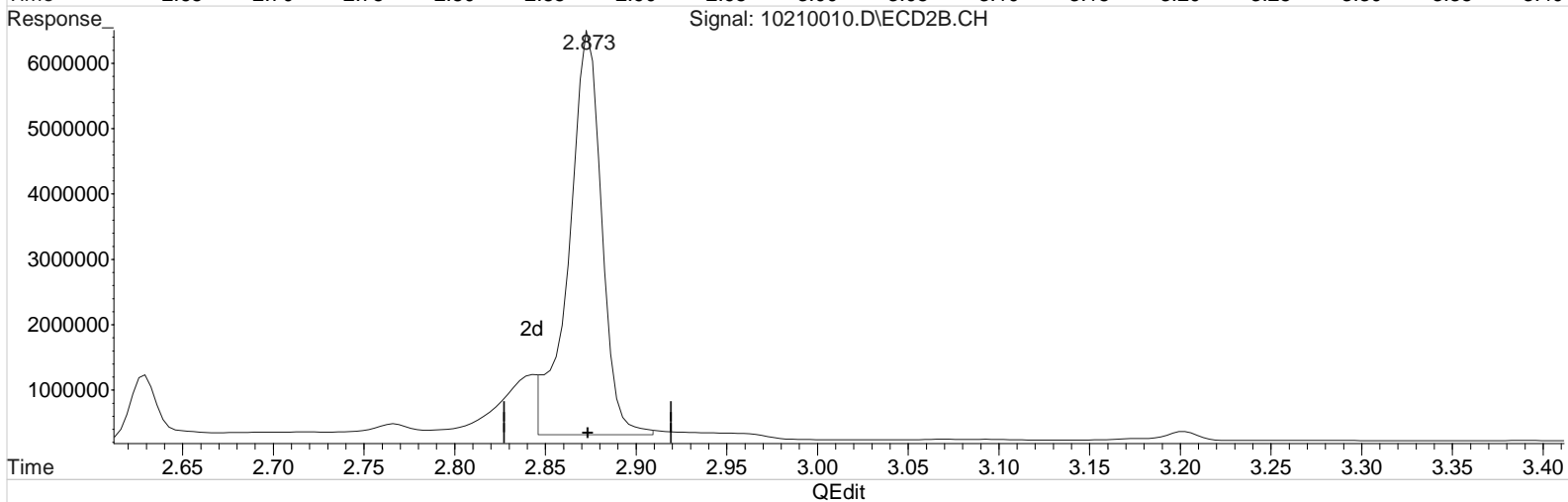
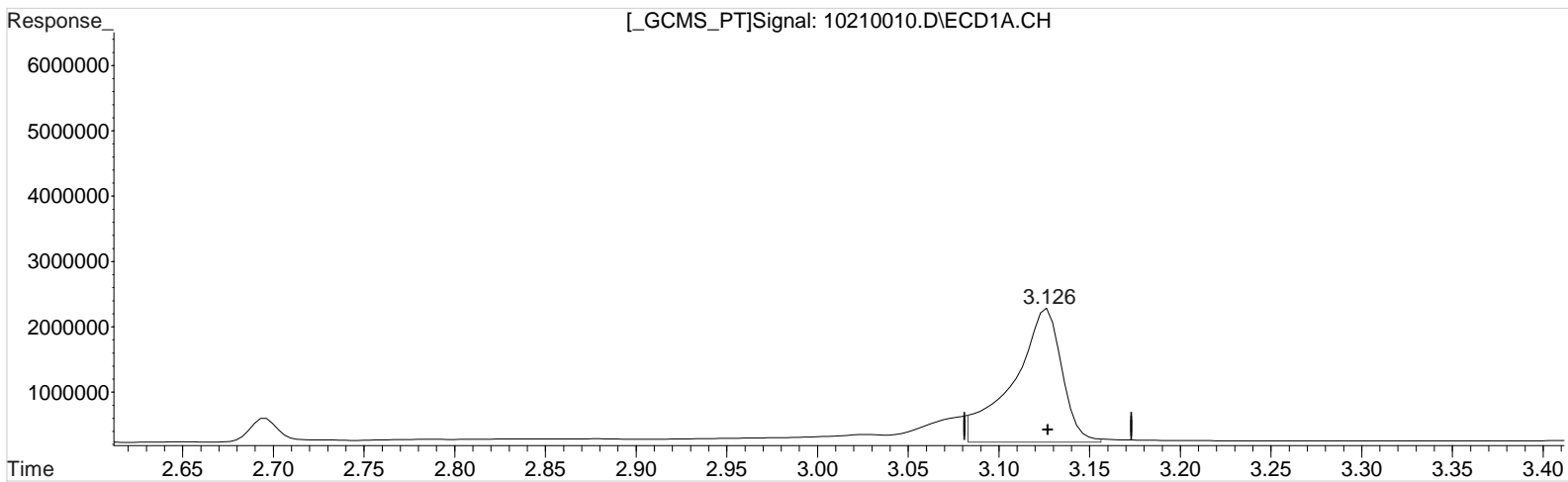
(1) Dalapon #2 (m)
2.873min 178.616 ppb
response 8363091

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.126min 161.174 ppb m
response 3756341

Manual Integration:
After
Baseline/Shoulder
10/21/20

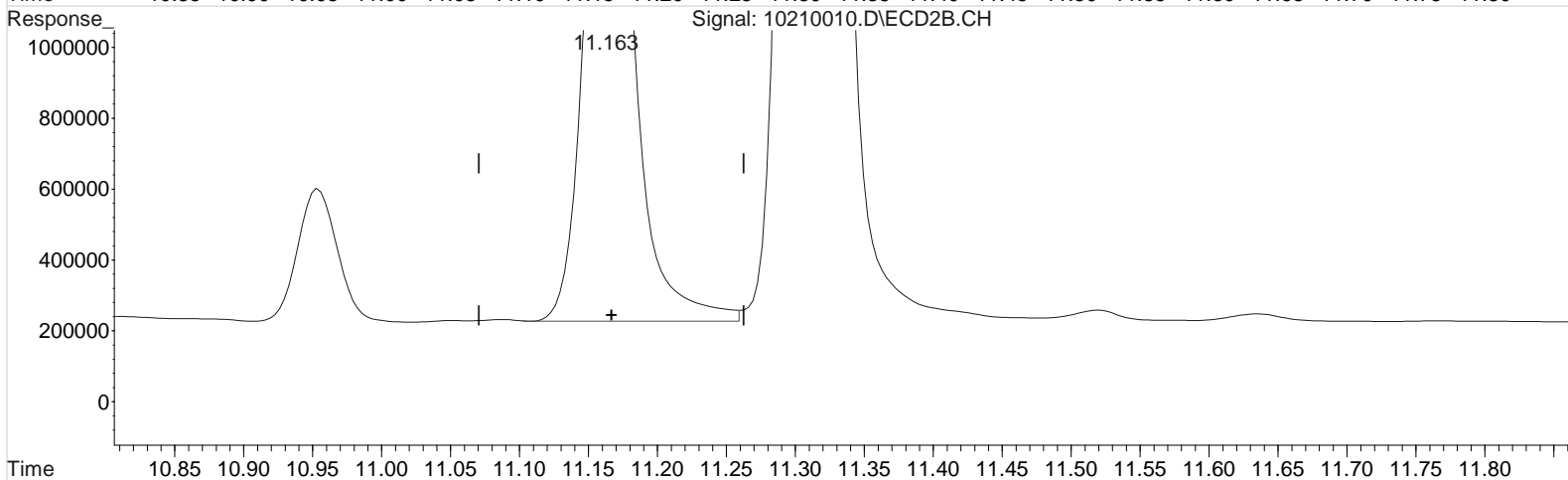
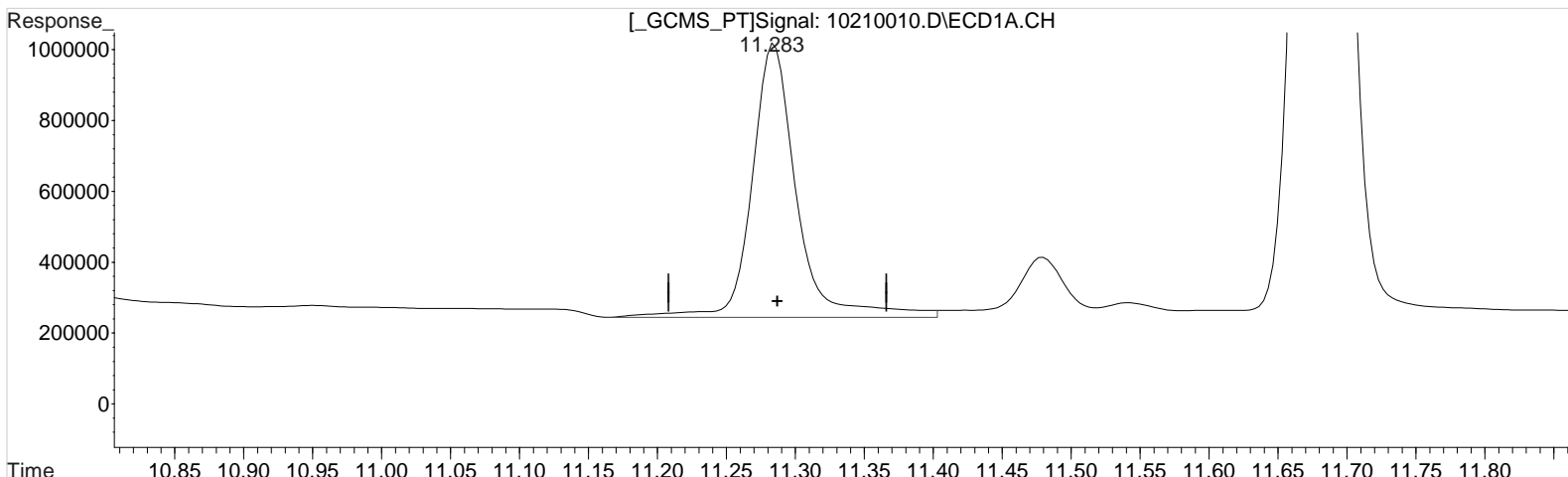
(1) Dalapon #2 (m)
2.873min 162.479 ppb m
response 7607536

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.283min 180.728 ppb
response 1747369

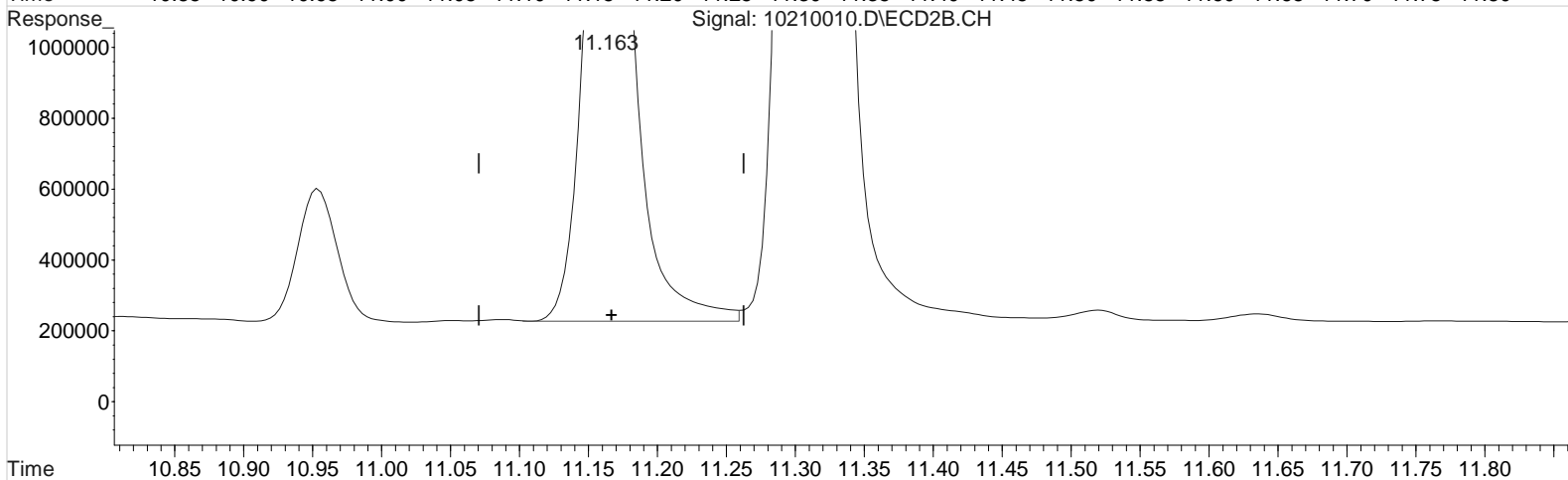
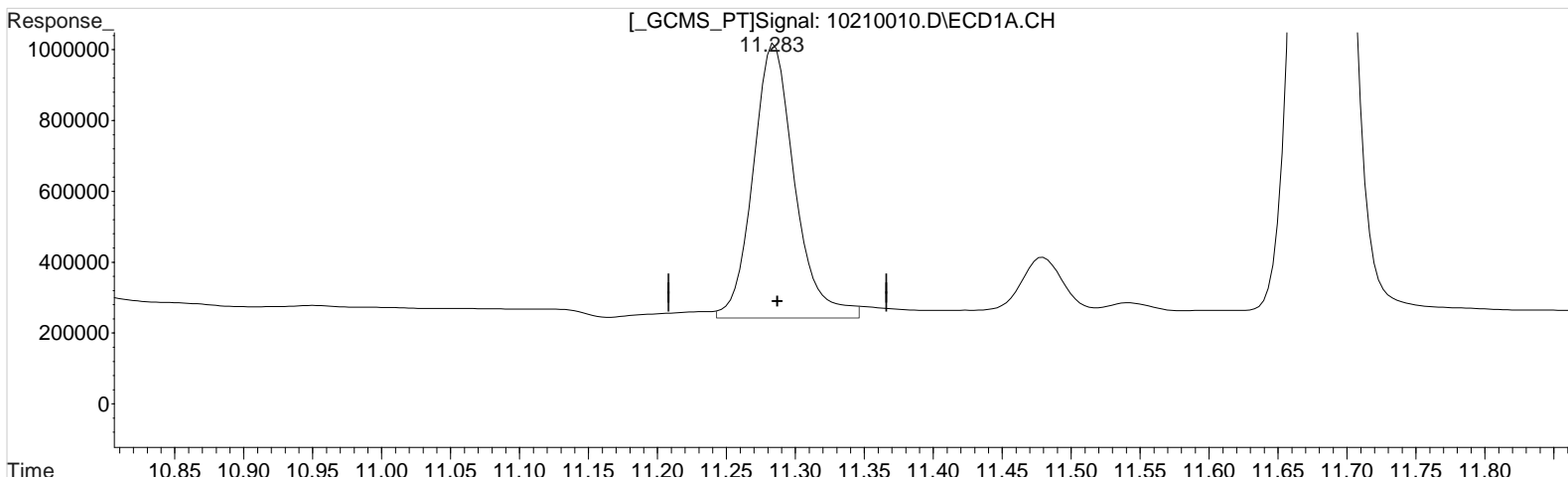
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.163min 163.801 ppb
response 4482448

Data File : J:\gc24\data\102120\10210010.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:08 pm Operator: UA
Sample : PENTA2-15C 175PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:31 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:19:22 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.283min 168.722 ppb m
response 1631284

(10) 2,4-DB #2 (m)
11.163min 163.801 ppb
response 4482448

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:32 pm Operator: UA
 Sample : PENTA2-15D 200PB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:19:09 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:16:23 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	7.991	7.814	3011902	6830371	167.857	172.784
Target Compounds						
1) m Dalapon	3.124	2.874	4166081	8620213	175.503m	186.129m
3) m Dicamba	8.214	7.914	12614321	26816087	183.029	187.560
4) m MCPP	8.298	8.104	844322	2817400	18845.702	16314.999
5) m MCPA	8.564	8.351	1113618	3800297	18157.111	16358.900
6) m Dichloroprop	8.964	8.751	3178809	7078599	175.122	179.686
7) m 2,4-D	9.321	9.057	3668350	8558209	178.402	179.541
8) m 2,4,5-TP ...	10.261	10.127	17460527	37116608	187.555	189.785
9) m 2,4,5-T	10.704	10.531	15065337	34693502	185.502	187.719
10) m 2,4-DB	11.288	11.167	1779525	5143484	179.055m	186.595
11) m Dinoseb	11.684	11.317	11030037	24155457	182.888	185.603

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

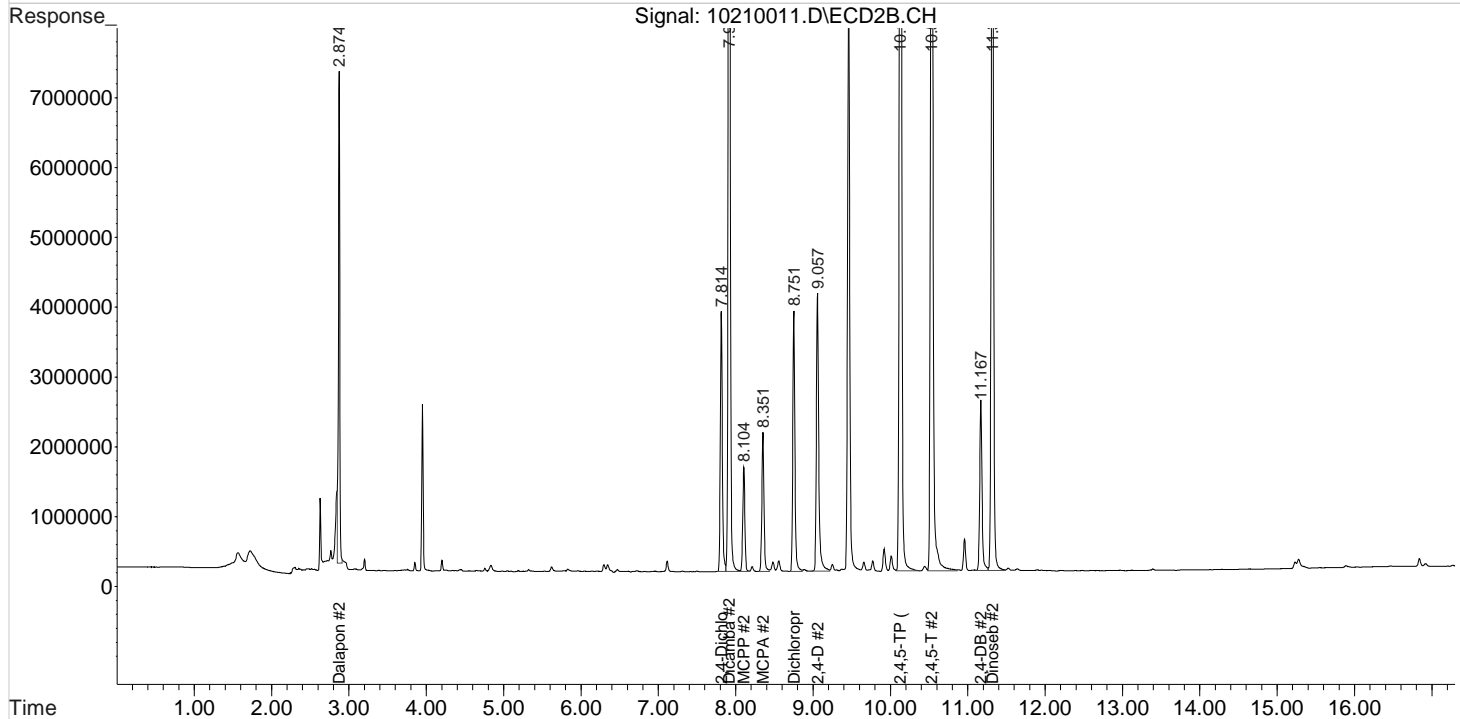
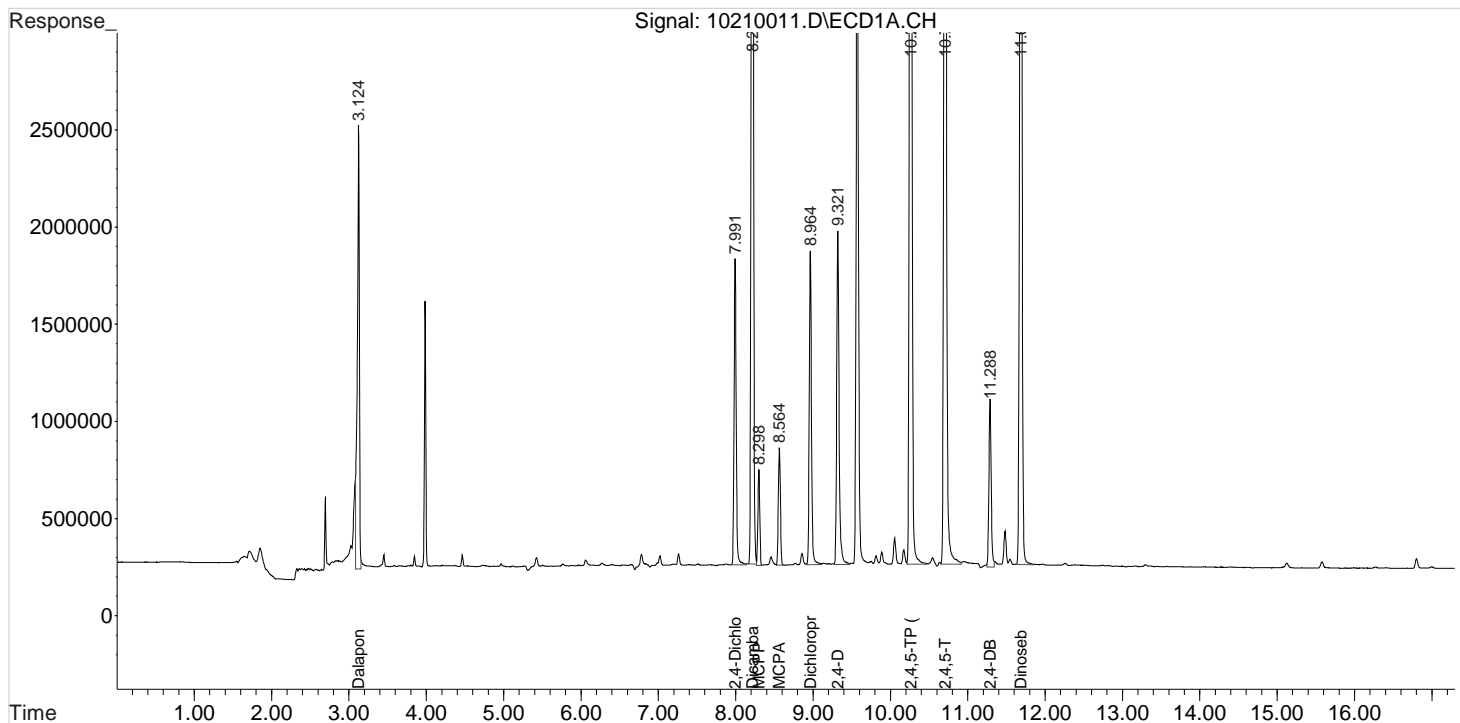
Data File : J:\gc24\data\102120\10210011.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm
Sample : PENTA2-15D 200PB
Misc :

Vial: 10
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

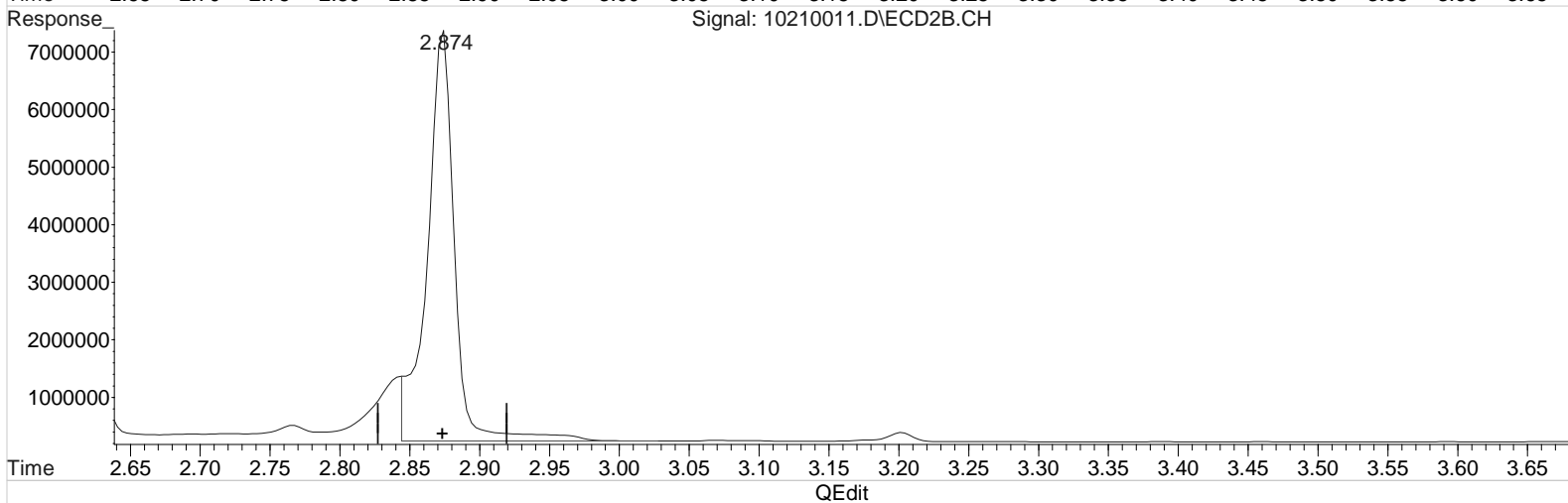
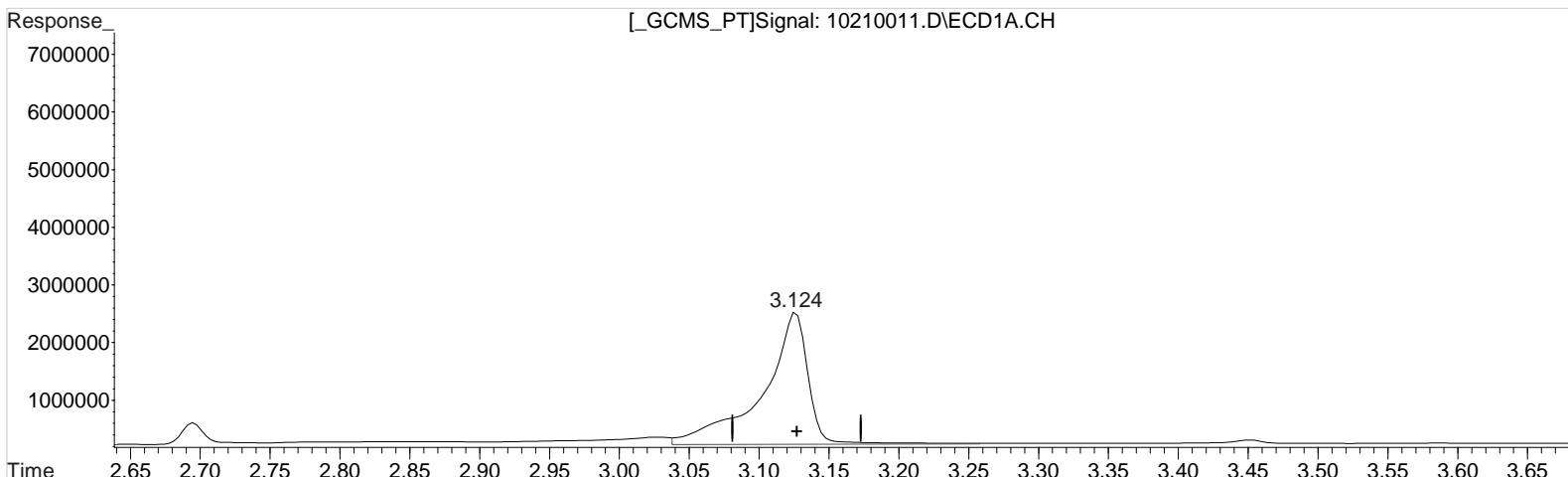
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 217.220 ppb
response 5156366

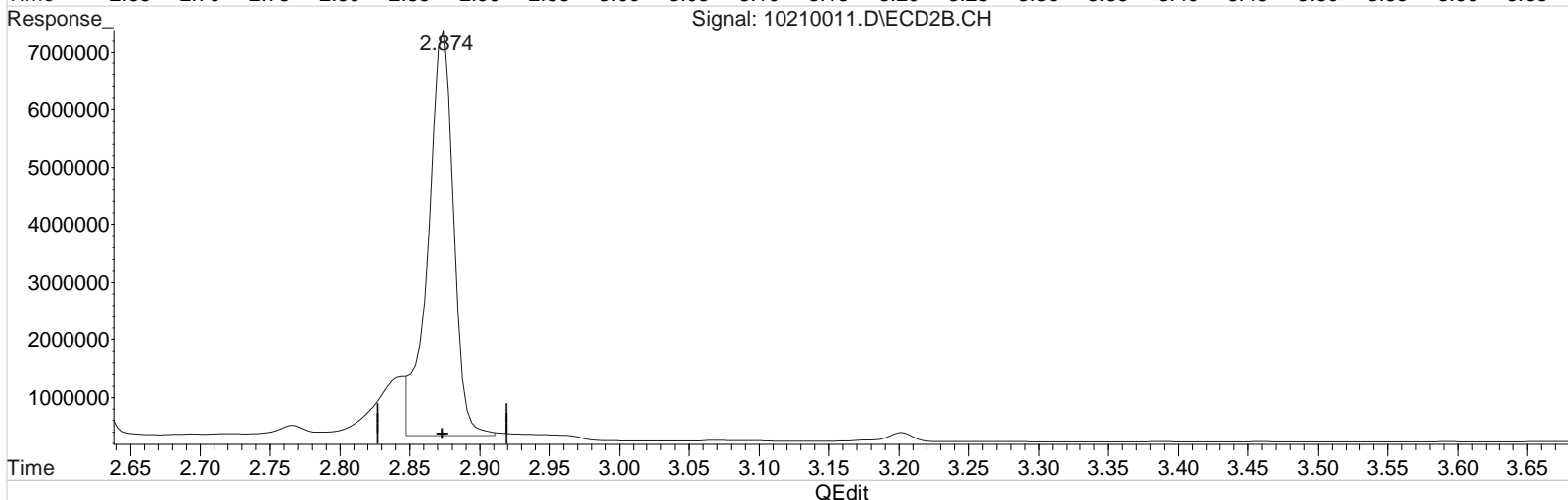
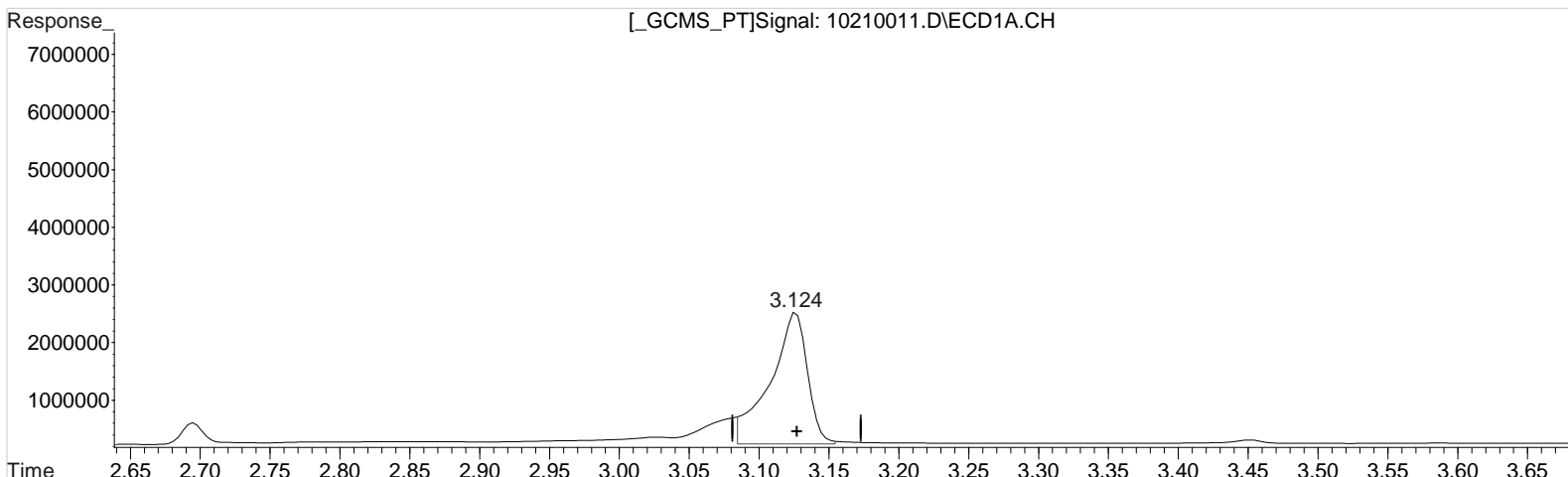
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.874min 208.116 ppb
response 9638480

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 175.503 ppb m
response 4166081

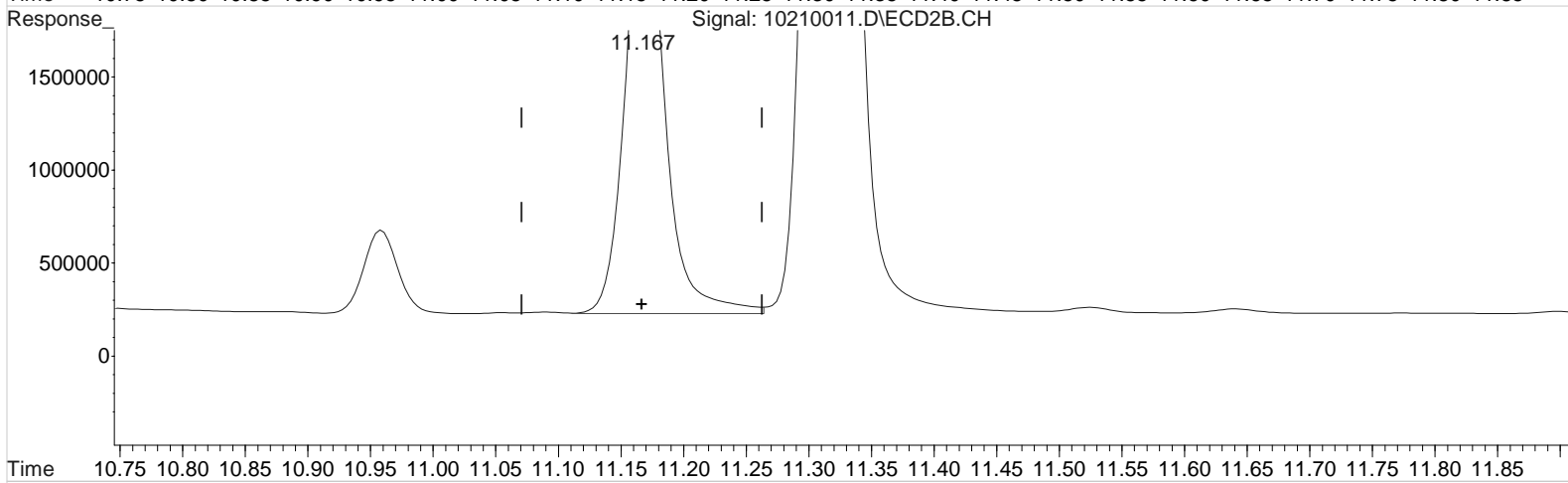
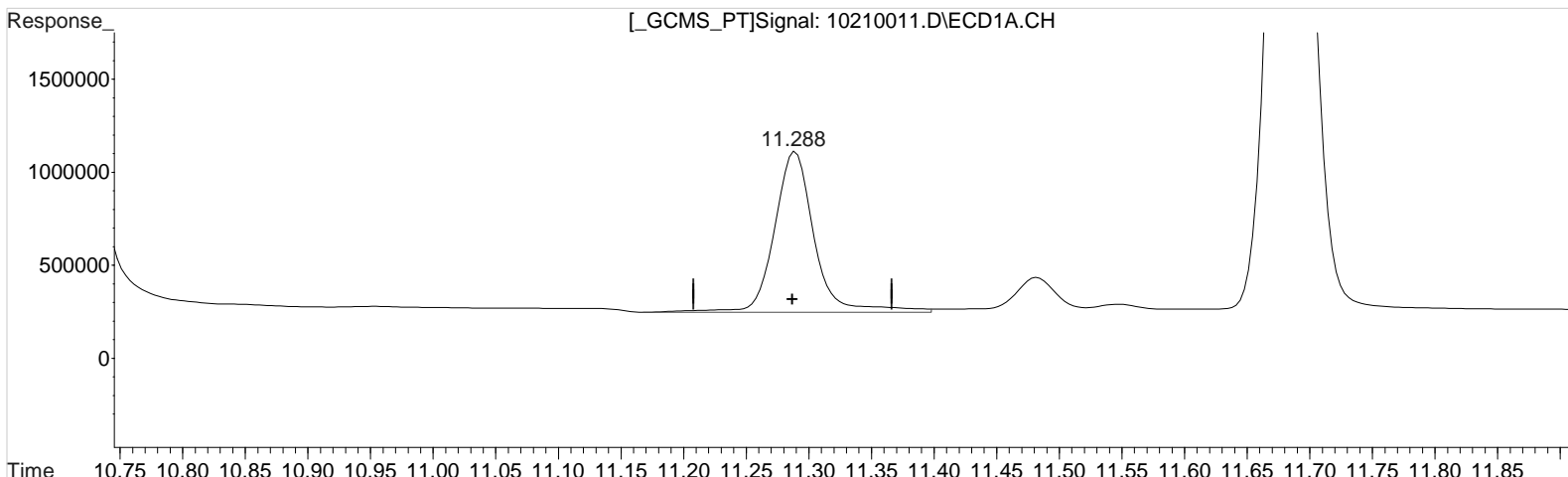
(1) Dalapon #2 (m)
2.874min 186.129 ppb m
response 8620213

Manual Integration:
After
Baseline/Shoulder
10/21/20

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 194.607 ppb
response 1934084

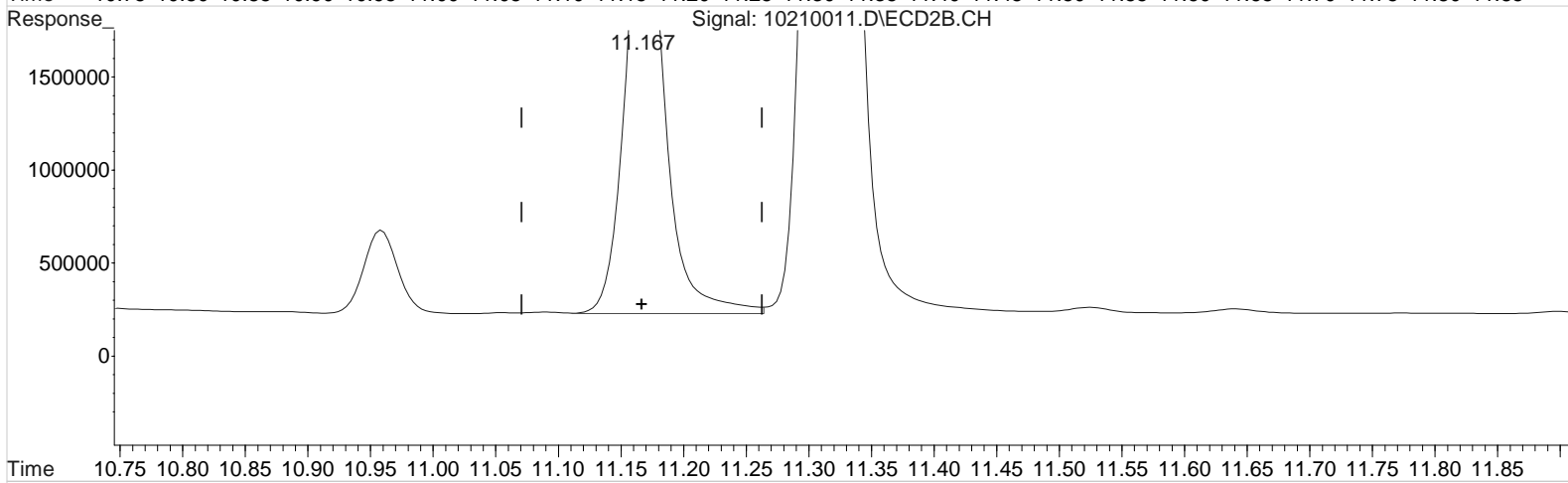
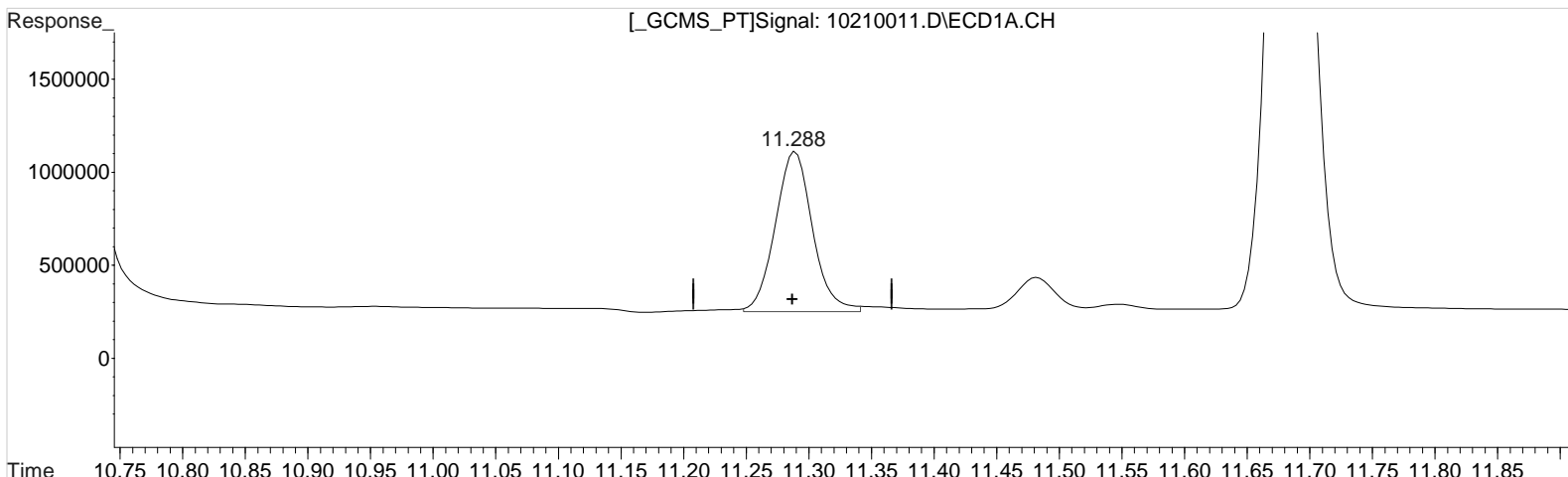
Manual Integration:
Before
10/21/20

(10) 2,4-DB #2 (m)
11.167min 186.595 ppb
response 5143484

Data File : J:\gc24\data\102120\10210011.D Vial: 10
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:32 pm Operator: UA
Sample : PENTA2-15D 200PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:17:43 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:16:23 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(10) 2,4-DB (m)
11.288min 179.055 ppb m
response 1779525

Manual Integration:
After
Baseline/Shoulder
10/21/20

(10) 2,4-DB #2 (m)
11.167min 186.595 ppb
response 5143484

Data File : J:\gc24\data\102120\10210012.D Vial: 11
 Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
 Acq On : 21 Oct 2020 4:56 pm Operator: UA
 Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
 Misc : Multiplr: 1.00
 Integration File signal 1: RTEINT.P
 Integration File signal 2: RTEINT2.P
 Quant Time: Oct 21 17:34:58 2020
 Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
 Quant Title : 103118_8151.m MJ215 CAL_KC1800
 QLast Update : Wed Oct 21 17:31:59 2020
 Response via : Initial Calibration
 DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
 Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
 Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm

Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb

System Monitoring Compounds						
2) s 2,4-Dichl...	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
1) m Dalapon	3.124	2.874	2275140	4637166	93.788m	95.982m
3) m Dicamba	8.214	7.917	6693399	14244119	95.894	96.106
4) m MCPP	8.301	8.107	425850	1671884	9672.717	10136.278
5) m MCPA	8.564	8.354	589571	2253395	10069.096	10030.937
6) m Dichloroprop	8.967	8.754	1609647	3570683	86.318	85.597
7) m 2,4-D	9.324	9.064	1920602	4282415	90.423	83.643
8) m 2,4,5-TP ...	10.264	10.134	8747020	18777316	93.370	92.500
9) m 2,4,5-T	10.711	10.537	8103188	18900875	98.209	98.768
10) m 2,4-DB	11.291	11.174	963718	2763456	93.935	95.240
11) m Dinoseb	11.687	11.320	5877452	12904696	95.003	94.362

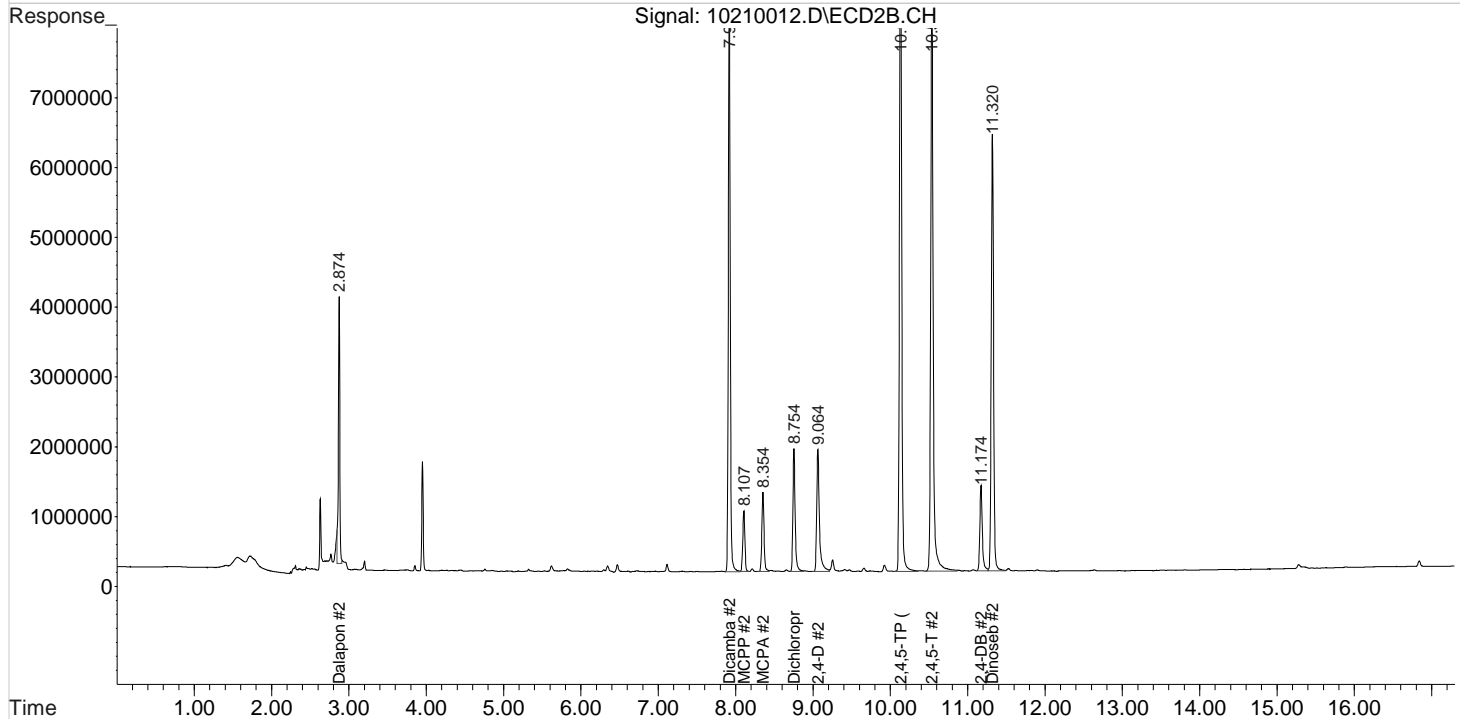
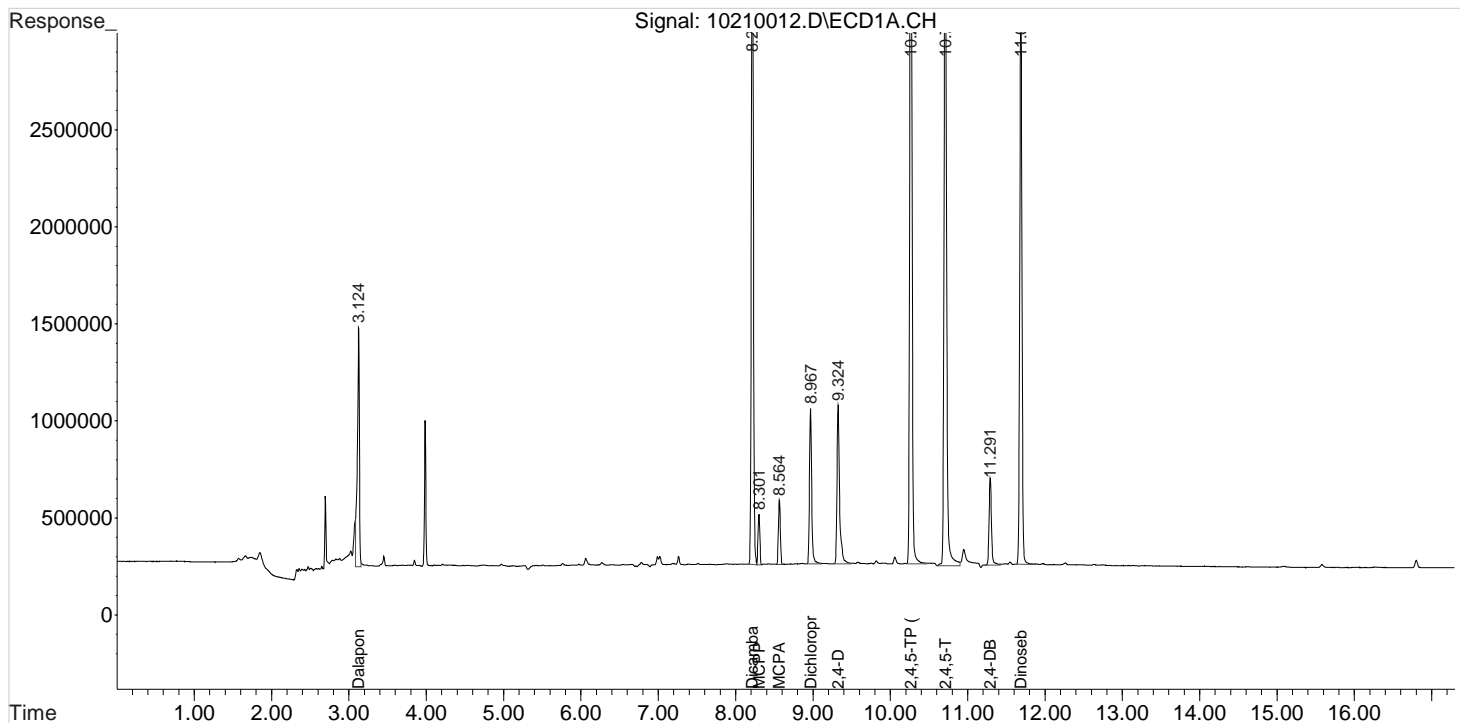
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data File : J:\gc24\data\102120\10210012.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm
Sample : PENTA2-15E ICV 100 PPB
Misc :
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:34:58 2020
Quant Results File: 102120_8151.RES

Vial: 11
Operator: UA
Inst : HP G1530A
Multiplr: 1.00

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

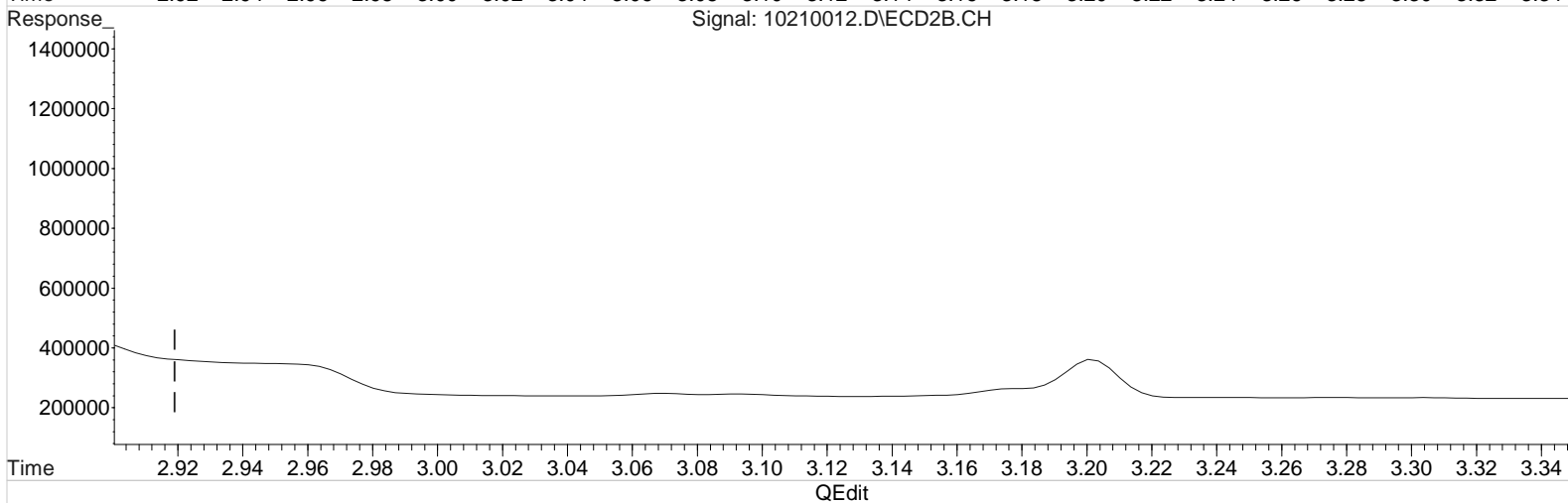
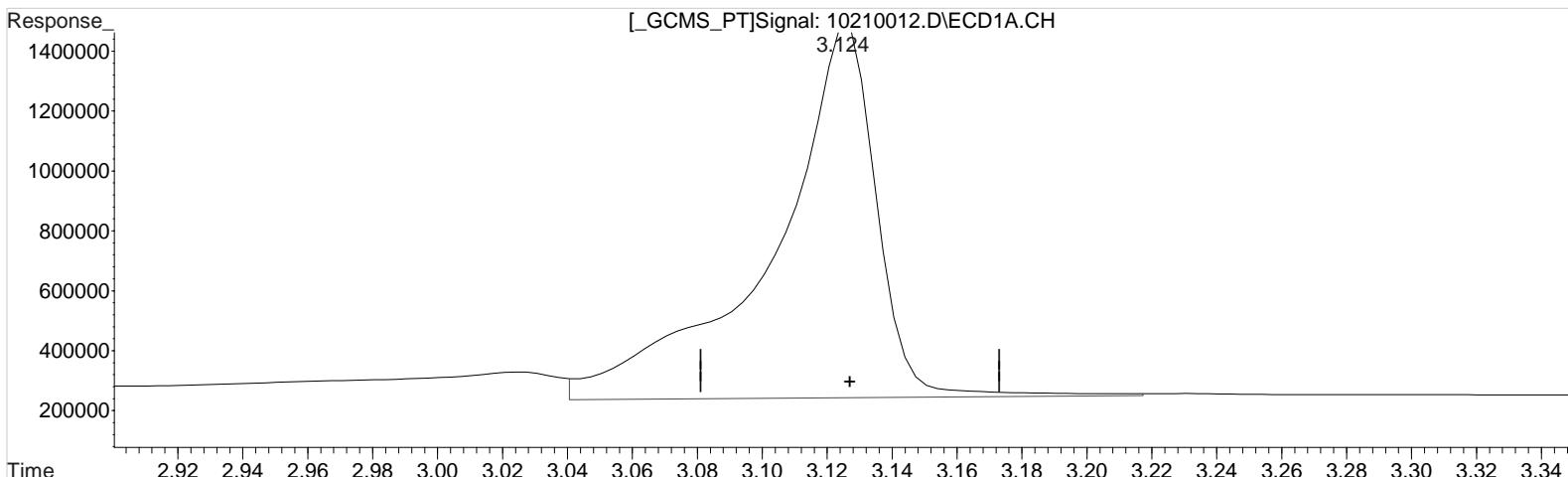
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 114.147 ppb
response 2769027

Manual Integration:
Before
10/21/20

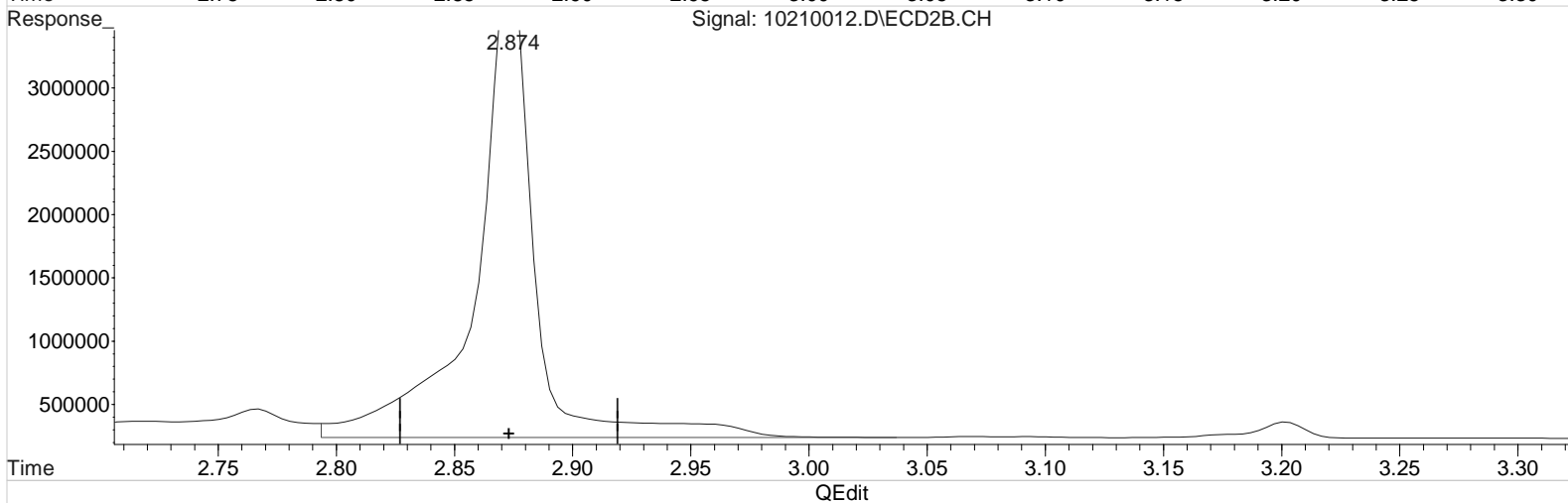
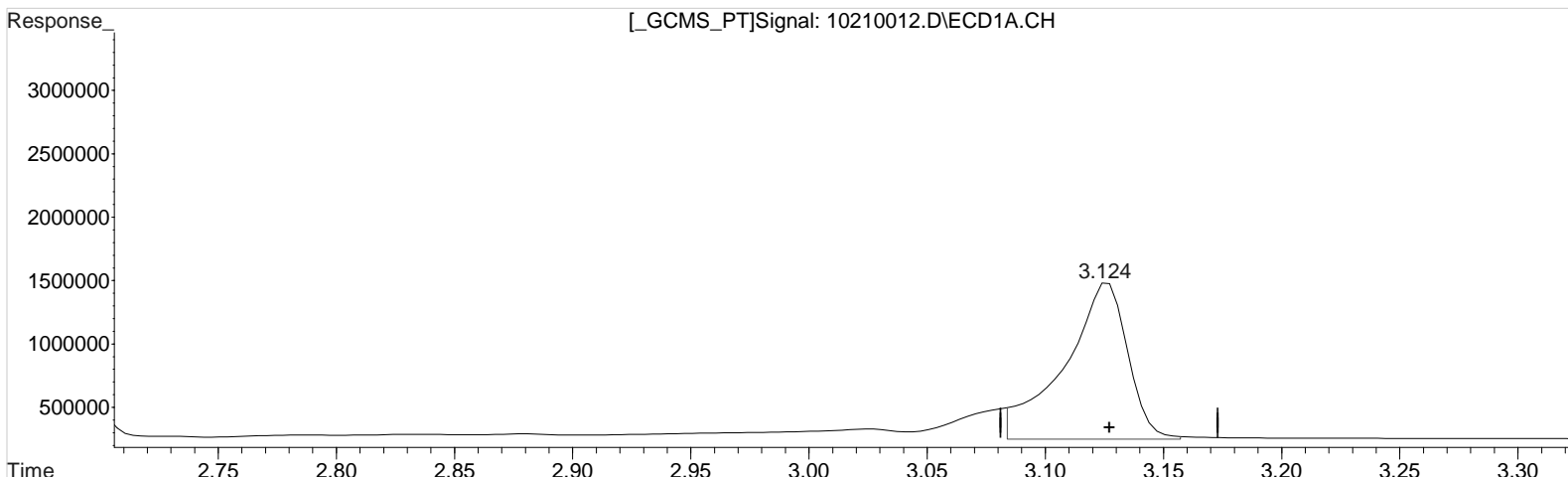
(1) Dalapon #2 (m)
2.874min 131.747 ppb
response 6365052

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 93.788 ppb m
response 2275140

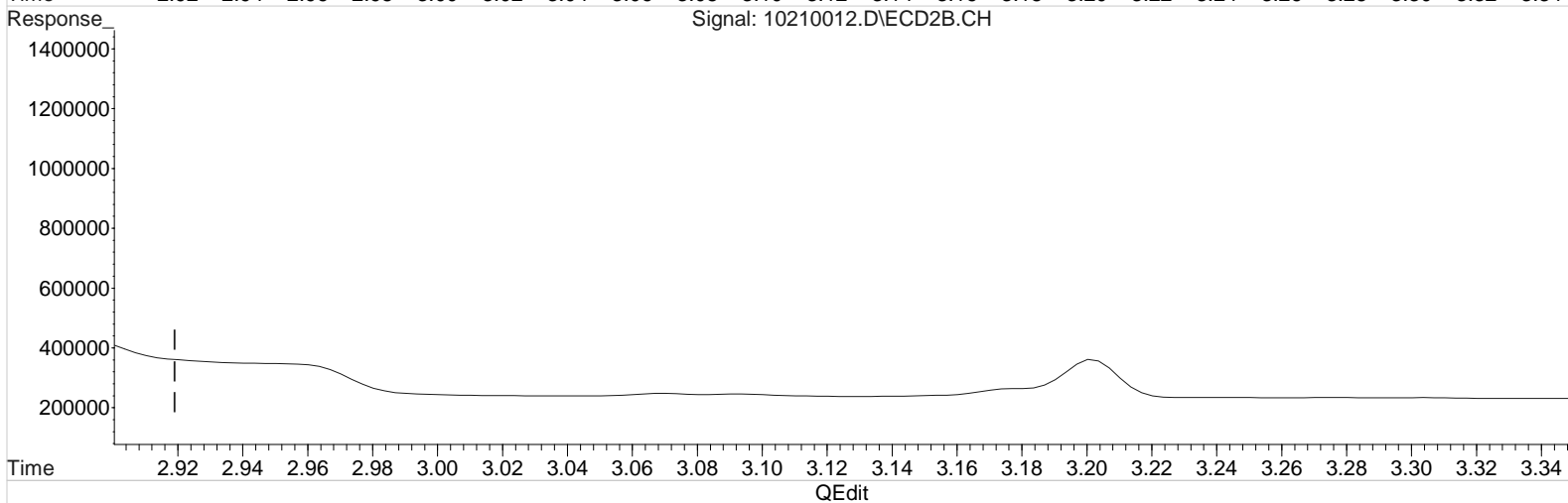
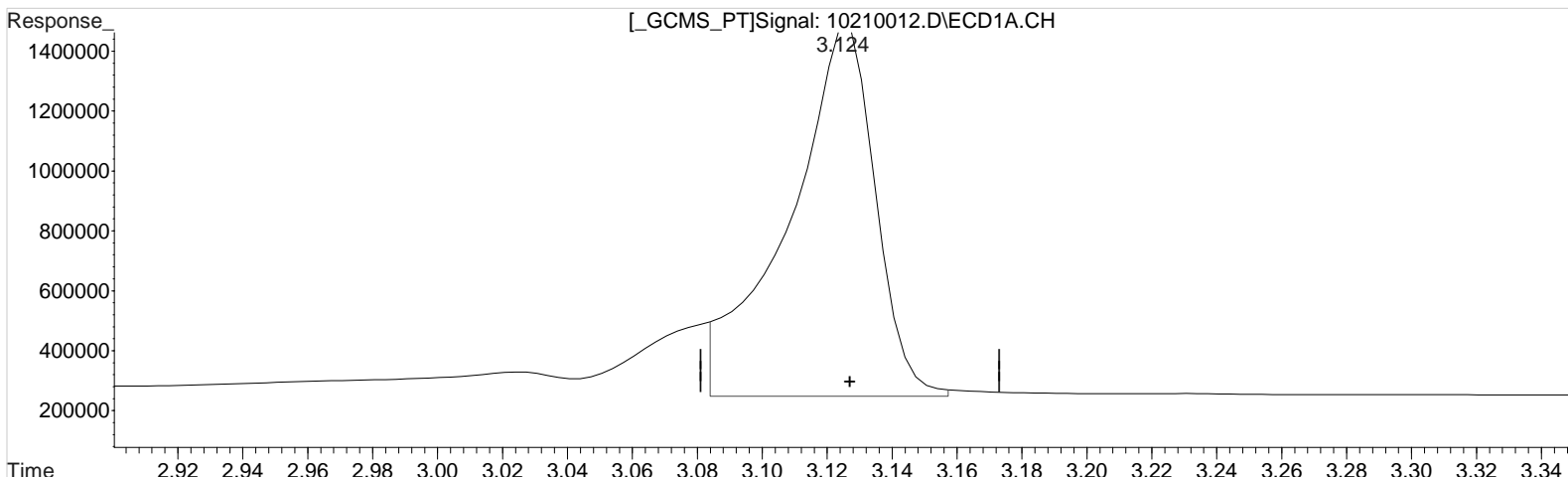
Manual Integration:
Before
10/21/20

(1) Dalapon #2 (m)
2.874min 131.747 ppb
response 6365052

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 93.788 ppb m
response 2275140

(1) Dalapon #2 (m)
2.874min 131.747 ppb
response 6365052

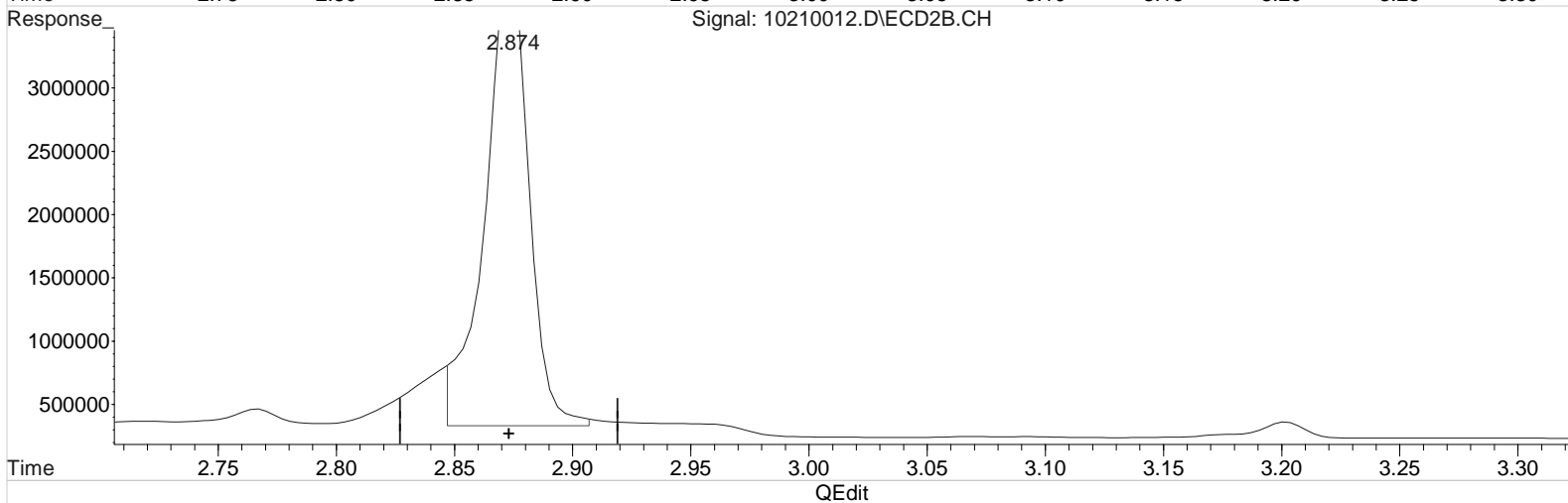
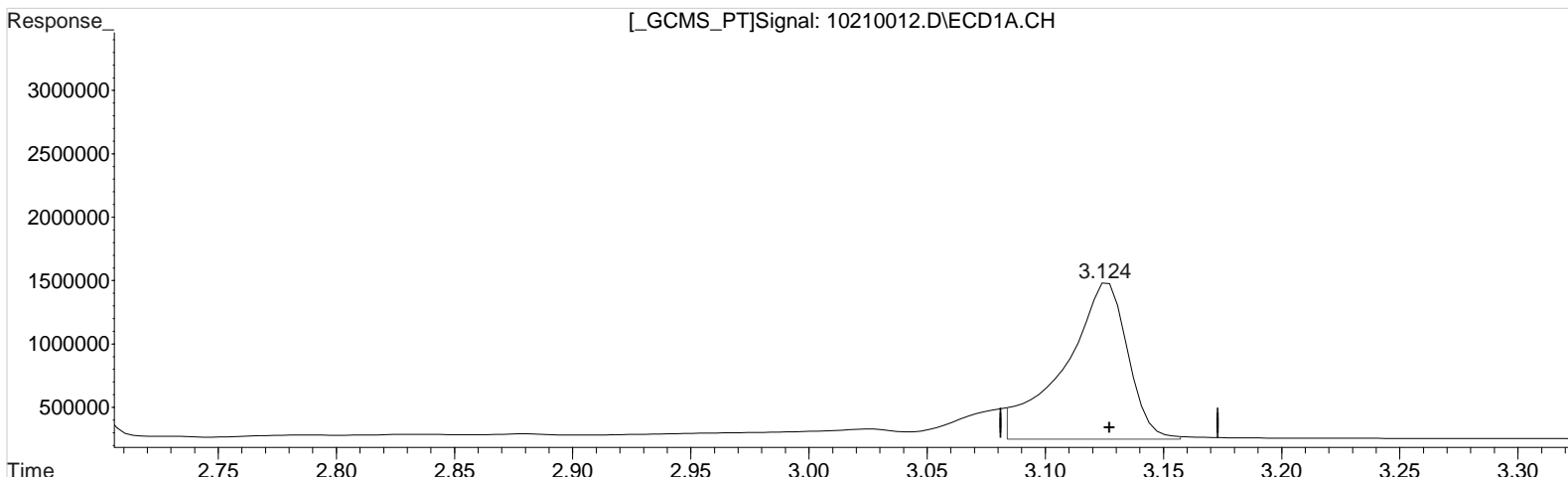
Manual Integration:
After
Baseline/Shoulder
10/21/20

(+) = Expected Retention Time

Data File : J:\gc24\data\102120\10210012.D Vial: 11
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Oct 2020 4:56 pm Operator: UA
Sample : PENTA2-15E ICV 100 PPB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Oct 21 17:33:07 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



(1) Dalapon (m)
3.124min 93.788 ppb m
response 2275140

(1) Dalapon #2 (m)
2.874min 95.982 ppb m
response 4637166

Manual Integration:
After
Baseline/Shoulder
10/21/20

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	11240001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	11240002	F:02:01		CCV PRIMER
No	3	Vial 2	8151A-17	11240003	F:03:01		PENTA2-14N 100PB
No	4	Vial 1	8151A-17	11240004	F:04:01		IB
No	5	Vial 3	8151A-17	11240005	F:05:01		KQ2010739-04MB
No	6	Vial 4	8151A-17	11240006	F:06:01		KQ2010739-03LCS
No	7	Vial 13	8151A-17	11240007	F:07:01		KQ2010738-04MB
No	8	Vial 14	8151A-17	11240008	F:08:01		KQ2010738-03LCS
No	9	Vial 15	8151A-17	11240009	F:09:01		K2010308-01
No	10	Vial 16	8151A-17	11240010	F:10:01		K2010308-02
No	11	Vial 17	8151A-17	11240011	F:11:01		K2010308-03
No	12	Vial 18	8151A-17	11240012	F:12:01		K2010308-04
No	13	Vial 19	8151A-17	11240013	F:13:01		K2010308-05
No	14	Vial 20	8151A-17	11240014	F:14:01		K2010308-06
No	15	Vial 2	8151A-17	11240015	F:15:01		PENTA2-14N 100PB
No	16	Vial 1	8151A-17	11240016	F:16:01		IB
No	17	Vial 21	8151A-17	11240017	F:17:01		K2010308-007
No	18	Vial 22	8151A-17	11240018	F:18:01		K2010308-008
No	19	Vial 23	8151A-17	11240019	F:19:01		K2010308-009
No	20	Vial 24	8151A-17	11240020	F:20:01		K2010308-010
No	21	Vial 25	8151A-17	11240021	F:21:01		K2010308-011
No	22	Vial 26	8151A-17	11240022	F:22:01		K2010308-012
No	23	Vial 33	8151A-17	11240023	F:23:01		K2010308-019
No	24	Vial 34	8151A-17	11240024	F:24:01		K2010308-020
No	25	Vial 35	8151A-17	11240025	F:25:01		KQ20107638-01MS
No	26	Vial 36	8151A-17	11240026	F:26:01		KQ20107638-02DMS
No	27	Vial 2	8151A-17	11240027	F:27:01		PENTA2-14N 100PB ✓
No	28	Vial 1	8151A-17	11240028	F:28:01		IB
No	29	Vial 37	8151A-17	11240029	F:29:01		K2010308-013 20X
No	30	Vial 38	8151A-17	11240030	F:30:01		K2010308-014 20X
No	31	Vial 39	8151A-17	11240031	F:31:01		K2010308-015 20X
No	32	Vial 40	8151A-17	11240032	F:32:01		K2010308-016 20X
No	33	Vial 41	8151A-17	11240033	F:33:01		K2010308-017 20X
No	34	Vial 42	8151A-17	11240034	F:34:01		K2010308-018 20X
No	35	Vial 43	8151A-17	11240035	F:35:01		K2010308-021 20X
No	36	Vial 44	8151A-17	11240036	F:36:01		K2010308-022 20X
No	37	Vial 45	8151A-17	11240037	F:37:01		K2010308-023 20X
No	38	Vial 46	8151A-17	11240038	F:38:01		K2010308-024 20X
No	39	Vial 2	8151A-17	11240039	F:39:01		PENTA2-14N 100PB ✓
No	40	Vial 1	8151A-17	11240040	F:40:01		IB
No	41	Vial 47	8151A-17	11240041	F:41:01		K2010308-025 20X
No	42	Vial 48	8151A-17	11240042	F:42:01		K2010308-026 20X
No	43	Vial 49	8151A-17	11240043	F:43:01		K2010308-26MS 2X
No	44	Vial 50	8151A-17	11240044	F:44:01		K2010308-26MS 2X
No	45	Vial 2	8151A-17	11240045	F:45:01		PENTA2-14N 100PB ✓
No	46	Vial 1	8151A-17	11240046	F:46:01		IB
No	47	none	STANDBY	11240047	F:47:01		STANBY

*Run #: 704970
ILAC: KC2000566*

DILUTION LOG

LAB ID.	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	By:	Solvent Lot #	COMMENTS / Ext. Date
K2010308-13	50ul	1ml	20X	11-24-20	UA	150-octane	Bad matrix
-14							
-15							
-16							
-17							
✓ -18	↓	↓	↓	↓	↓	↓	↓
<hr/>							
UA 11-24-20 K20108							
K2010308-21	50ul	1ml	20x	11-24-20	UA	150-octane	Bad matrix
-22							
-23							
-24							
-25							
✓ -26	↓	↓	↓	↓	↓	↓	↓
K2010308-26ms							
↓ -26ms	↓	↓	↓	↓	↓	↓	↓

UA
11-24-20

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	11230001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	11230002	F:02:01		CCV PRIMER
No	3	Vial 2	8151A-17	11230003	F:03:01		PENTA2-14N 100PB
No	4	Vial 1	8151A-17	11230004	F:04:01		IB
No	5	Vial 3	8151A-17	11230005	F:05:01		KQ20107639-04MB
No	6	Vial 4	8151A-17	11230006	F:06:01		KQ20107639-03LCS
No	7	Vial 5	8151A-17	11230007	F:07:01		K2010308-021-di
No	8	Vial 6	8151A-17	11230008	F:08:01		K2010308-022-di
No	9	Vial 7	8151A-17	11230009	F:09:01		K2010308-023-di
No	10	Vial 8	8151A-17	11230010	F:10:01		K2010308-024-di
No	11	Vial 9	8151A-17	11230011	F:11:01		K2010308-025-di
No	12	Vial 10	8151A-17	11230012	F:12:01		K2010308-026-di
No	13	Vial 11	8151A-17	11230013	F:13:01		KQ20107639-01MS-di
No	14	Vial 12	8151A-17	11230014	F:14:01		KQ20107639-02DMS-di
No	15	Vial 2	8151A-17	11230015	F:15:01		PENTA2-14N 100PB
No	16	Vial 1	8151A-17	11230016	F:16:01		IB
No	17	Vial 13	8151A-17	11230017	F:17:01		KQ20107638-04MB
No	18	Vial 14	8151A-17	11230018	F:18:01		KQ20107638-03LCS
No	19	Vial 15	8151A-17	11230019	F:19:01		K2010308-001
No	20	Vial 16	8151A-17	11230020	F:20:01		K2010308-002
No	21	Vial 17	8151A-17	11230021	F:21:01		K2010308-003
No	22	Vial 18	8151A-17	11230022	F:22:01		K2010308-004
No	23	Vial 19	8151A-17	11230023	F:23:01		K2010308-005
No	24	Vial 20	8151A-17	11230024	F:24:01		K2010308-006
No	25	Vial 21	8151A-17	11230025	F:25:01		K2010308-007
No	26	Vial 22	8151A-17	11230026	F:26:01		K2010308-008
No	27	Vial 2	8151A-17	11230027	F:27:01		PENTA2-14N 100PB
No	28	Vial 1	8151A-17	11230028	F:28:01		IB
No	29	Vial 23	8151A-17	11230029	F:29:01		K2010308-009
No	30	Vial 24	8151A-17	11230030	F:30:01		K2010308-010
No	31	Vial 25	8151A-17	11230031	F:31:01		K2010308-011
No	32	Vial 26	8151A-17	11230032	F:32:01		K2010308-012
No	33	Vial 27	8151A-17	11230033	F:33:01		K2010308-013-di
No	34	Vial 28	8151A-17	11230034	F:34:01		K2010308-014-di
No	35	Vial 29	8151A-17	11230035	F:35:01		K2010308-015-di
No	36	Vial 30	8151A-17	11230036	F:36:01		K2010308-016-di
No	37	Vial 31	8151A-17	11230037	F:37:01		K2010308-017-di
No	38	Vial 32	8151A-17	11230038	F:38:01		K2010308-018-di
No	39	Vial 2	8151A-17	11230039	F:39:01		PENTA2-14N 100PB
No	40	Vial 1	8151A-17	11230040	F:40:01		IB
No	41	Vial 33	8151A-17	11230041	F:41:01		K2010308-019
No	42	Vial 34	8151A-17	11230042	F:42:01		K2010308-020
No	43	Vial 35	8151A-17	11230043	F:43:01		KQ20107638-01MS
No	44	Vial 36	8151A-17	11230044	F:44:01		KQ20107638-02DMS
No	45	Vial 2	8151A-17	11230045	F:45:01		PENTA2-14N 100PB
No	46	Vial 1	8151A-17	11230046	F:46:01		IB
No	47	none	STANDBY	11230047	F:47:01		STANBY

Run #: 704671

20x

ccv

RR

20x

ccv