ALS Environmental
ALS Group USA, Corp
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Kelso, WA 98626
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December 04, 2020

Analytical Report for Service Request No: K2010456

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

RE: GascoSiltronic: US Moorings

Dear Delaney,

Enclosed are the results of the sample(s) submitted to our laboratory November 11, 2020
For your reference, these analyses have been assigned our service request number **K2010456.**

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
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Table of Contents

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.pjlabs.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/anlayte 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
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Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Service Request: K2010456
Date Received: 11/11/2020

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 five sediment samples were received for analysis at ALS Environmental on 11/11/2020. 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, 12/02/2020:The upper control criterion was exceeded for 2,4,5-TP in Continuing Calibration Verification (CCV) KQ2019199-05 and KQ2019199-07. The field samples analyzed in this sequence did not contain the analyte(s) in question. Since the apparent problem indicated a potential high bias, the data quality was not affected. No further corrective action was required.

A matrix spike (MS) and a duplicate matrix spike (DMS) were extracted in conjunction with sample USMPDI-057SC-B-08-10-201109. The percent recoveries for 2,4-D were not within the project specified QC limits follwoing the analyses of the MS/DMS. The percent recovery for 2,4-D was not within the project specified QC limits for the corresponding LCS. Since all percent recoveries for 2,4-D were within in-house established QC limits, no corrective actions were taken.

Approved by _____ Date 12/04/2020

Chain of Custody

ALS Environmental—Kelso Laboratory
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www.alsglobal.com

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

COC ID: ALS-20201109-165115

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

K2010456

Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
001	USMPDI-012SC-D-00-02-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
002	USMPDI-012SC-D-02-04-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
003	USMPDI-012SC-D-04-06-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
004	USMPDI-012SC-D-06-08-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
005	USMPDI-012SC-D-08-10-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
006	USMPDI-012SC-D-10-12-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
007	USMPDI-012SC-D-12-14-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
008	USMPDI-012SC-D-14-15.9-201109	N	SE	11/09/2020	12:45	1	☐				

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: James Nelte	Print Name: Naomi Pedersen	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: QA	Company	Company	Company	Company
Date/Time: 11/10/20 @ 0515	Date/Time: 11/11/20 1010	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/9/2020

Page 1 of 4

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

16201045k

COC ID: ALS-20201109-165115

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
008	USMPDI-012SC-D-14-15.9-201109	N	SE	11/09/2020	12:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
009	USMPDI-014SC-B-00-02-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
010	USMPDI-014SC-B-02-04-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
011	USMPDI-014SC-B-04-06-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
012	USMPDI-014SC-B-06-08-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
013	USMPDI-014SC-B-08-10-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
014	USMPDI-014SC-B-10-12-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
015	USMPDI-014SC-B-12-14-201109	N	SE	11/09/2020	14:45	1	☐				

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: James Mercer	Print Name: Naomi Pedersen	Print Name	Print Name	Print Name	Print Name
Company: AE	Company: ALS	Company	Company	Company	Company
Date/Time: 11/10/20 @ 0815	Date/Time: 11/11/20 1345	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/9/2020

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010456

COC ID: ALS-20201109-165115

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
015	USMPDI-014SC-B-12-14-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
016	USMPDI-014SC-B-14-16-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
017	USMPDI-014SC-B-16-17.3-201109	N	SE	11/09/2020	14:45	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
018	USMPDI-057SC-B-00-02-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
019	USMPDI-057SC-B-02-04-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
020	USMPDI-057SC-B-04-06-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
021	USMPDI-057SC-B-06-08-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
022	USMPDI-057SC-B-08-10-201109	N	SE	11/09/2020	9:20	2	X				

Comment:

Relinquished By:	Received By:	Relinquished By:	Received By:	Relinquished By:	Received By:
Signature	Signature	Signature	Signature	Signature	Signature
Print Name: James Nevin	Print Name: Naomi Pedersen	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: ALS	Company	Company	Company	Company
Date/Time: 11/10/20 @ 0815	Date/Time: 11/11/20 1345 NW 1000	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/9/2020

ANCHOR QEA
1201 3rd Avenue, Suite 2600, Seattle, WA 98101

ENVIRONMENTAL SAMPLE CHAIN OF CUSTODY

K2010456

COC ID: ALS-20201109-165115

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

Project: GascoSiltronic: US Moorings
Client: NW Natural

Sample Custodian: SN
Lab: ALS Environmental, Kelso, WA

COC Sample Number	Field Sample ID	Sample Type	Matrix	Collected Date	Collected Time	Containers #	Lab QC*	Test Request	Method	TAT**	Preservative
022	USMPDI-057SC-B-08-10-201109	N	SE	11/09/2020	9:20	2	X				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
023	USMPDI-057SC-B-10-12-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
024	USMPDI-057SC-B-12-13.5-201109	N	SE	11/09/2020	9:20	1	☐				
								Herbicides	SW8151A	30	4°C
								Total Solids (ALS)	SM2540G	30	4°C
025	USMPDI-1057SC-B-06-08-201109	FD	SE	11/09/2020		1	☐				
								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: James Keith	Print Name: Naomi Pedersen	Print Name	Print Name	Print Name	Print Name
Company: AQ	Company: ALS	Company	Company	Company	Company
Date/Time: 11/10/20 @ 0815	Date/Time: 11/11/20 1345 1600 NP	Date/Time	Date/Time	Date/Time	Date/Time

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

Date Printed: 11/9/2020

Page 4 of 4

PM Mark

Cooler Receipt and Preservation Form

Client Anchor Service Request K20 10456

Received: 11/11/20 Opened: 11/11/20 By: NP Unloaded: 11/11/20 By: NP

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 (Y) 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 NP 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 NA	Filed
8.2	5.6	IR02	AFS-20201109-165115	—	—	7720 4314 7169	

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: _____

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 Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/9/20
Sample Matrix:	Sediment	**Date Received:**	11/11/20
Analysis Method:	SM 2540 G	**Units:**	Percent
Prep Method:	None	**Basis:**	As Received

Solids, Total

Sample Name	Lab Code	Result	MRL	MDL	Dil.	Date Analyzed	Q
USMPDI-012SC-D-00-02-201109	K2010456-001	**72.3**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-02-04-201109	K2010456-002	**78.0**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-04-06-201109	K2010456-003	**86.6**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-06-08-201109	K2010456-004	**78.1**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-08-10-201109	K2010456-005	**84.0**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-10-12-201109	K2010456-006	**76.6**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-12-14-201109	K2010456-007	**68.7**	-	-	1	12/02/20 16:30	
USMPDI-012SC-D-14-15.9-201109	K2010456-008	**74.0**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-00-02-201109	K2010456-009	**51.4**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-02-04-201109	K2010456-010	**54.0**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-04-06-201109	K2010456-011	**56.1**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-06-08-201109	K2010456-012	**59.0**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-08-10-201109	K2010456-013	**58.2**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-10-12-201109	K2010456-014	**56.0**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-12-14-201109	K2010456-015	**61.0**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-14-16-201109	K2010456-016	**67.7**	-	-	1	12/02/20 16:30	
USMPDI-014SC-B-16-17.3-201109	K2010456-017	**68.0**	-	-	1	12/02/20 16:30	
USMPDI-057SC-B-00-02-201109	K2010456-018	**70.8**	-	-	1	12/02/20 16:30	
USMPDI-057SC-B-02-04-201109	K2010456-019	**66.6**	-	-	1	12/02/20 16:30	
USMPDI-057SC-B-04-06-201109	K2010456-020	**75.7**	-	-	1	12/02/20 16:30	
USMPDI-057SC-B-06-08-201109	K2010456-021	**75.5**	-	-	1	12/02/20 16:45	
USMPDI-057SC-B-08-10-201109	K2010456-022	**86.6**	-	-	1	12/02/20 16:45	
USMPDI-057SC-B-10-12-201109	K2010456-023	**76.4**	-	-	1	12/02/20 16:45	
USMPDI-057SC-B-12-13.5-201109	K2010456-024	**75.2**	-	-	1	12/02/20 16:45	
USMPDI-1057SC-B-06-08-201109	K2010456-025	**75.5**	-	-	1	12/02/20 16:45	
Method Blank	K2010456-MB1	ND U	-	-	1	12/02/20 16:30	
Method Blank	K2010456-MB2	ND U	-	-	1	12/02/20 16:45	

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20
Sample Matrix:	Sediment	**Date Received:**	11/11/20
Analysis Method:	SM 2540 G	**Units:**	Percent
Prep Method:	None	**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-012SC-D-02-04-201109	K2010456-002DUP	-	-	78.0	77.0	77.5	1	20	12/02/20
USMPDI-014SC-B-06-08-201109	K2010456-012DUP	-	-	59.0	58.7	58.9	<1	20	12/02/20
USMPDI-057SC-B-08-10-201109	K2010456-022DUP	-	-	86.6	86.6	86.6	<1	20	12/02/20

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

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-00-02-201109	**Units:**	ug/Kg
Lab Code:	K2010456-001	**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	69	3.4	1	12/02/20 10:30	11/12/20	
2,4-D	ND U	69	11	1	12/02/20 10:30	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	26 - 127	12/02/20 10:30	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-02-04-201109	**Units:**	ug/Kg
Lab Code:	K2010456-002	**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	12/02/20 10:53	11/12/20	
2,4-D	ND U	64	9.9	1	12/02/20 10:53	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	66	26 - 127	12/02/20 10:53	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-04-06-201109	**Units:**	ug/Kg
Lab Code:	K2010456-003	**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	58	2.8	1	12/02/20 11:16	11/12/20	
2,4-D	ND U	58	8.9	1	12/02/20 11:16	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	53	26 - 127	12/02/20 11:16	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-06-08-201109	**Units:**	ug/Kg
Lab Code:	K2010456-004	**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	12/02/20 11:39	11/12/20	
2,4-D	ND U	64	9.9	1	12/02/20 11:39	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	26 - 127	12/02/20 11:39	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-08-10-201109	**Units:**	ug/Kg
Lab Code:	K2010456-005	**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	59	2.9	1	12/02/20 12:02	11/12/20	
2,4-D	ND U	59	9.2	1	12/02/20 12:02	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	26 - 127	12/02/20 12:02	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-10-12-201109	**Units:**	ug/Kg
Lab Code:	K2010456-006	**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	12/02/20 13:11	11/12/20	
2,4-D	ND U	65	11	1	12/02/20 13:11	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	12/02/20 13:11	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-12-14-201109	**Units:**	ug/Kg
Lab Code:	K2010456-007	**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	73	3.5	1	12/02/20 13:33	11/12/20	
2,4-D	ND U	73	12	1	12/02/20 13:33	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	12/02/20 13:33	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 12:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-012SC-D-14-15.9-201109	**Units:**	ug/Kg
Lab Code:	K2010456-008	**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	3.3	1	12/02/20 13:56	11/12/20	
2,4-D	ND U	67	11	1	12/02/20 13:56	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	52	26 - 127	12/02/20 13:56	

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-00-02-201109	**Units:**	ug/Kg
Lab Code:	K2010456-009	**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	97	4.7	1	12/02/20 14:19	11/12/20	
2,4-D	ND U	97	15	1	12/02/20 14:19	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	12/02/20 14:19	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-02-04-201109	**Units:**	ug/Kg
Lab Code:	K2010456-010	**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	92	4.5	1	12/02/20 14:42	11/12/20	
2,4-D	ND U	92	15	1	12/02/20 14:42	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	26 - 127	12/02/20 14:42	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-04-06-201109	**Units:**	ug/Kg
Lab Code:	K2010456-011	**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	89	4.3	1	12/02/20 15:05	11/12/20	
2,4-D	ND U	89	14	1	12/02/20 15:05	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	57	26 - 127	12/02/20 15:05	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-06-08-201109	**Units:**	ug/Kg
Lab Code:	K2010456-012	**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	85	4.1	1	12/02/20 15:28	11/12/20	
2,4-D	ND U	85	14	1	12/02/20 15:28	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	64	26 - 127	12/02/20 15:28	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-08-10-201109	**Units:**	ug/Kg
Lab Code:	K2010456-013	**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	430	21	5	12/02/20 04:01	11/12/20	
2,4-D	ND U	430	67	5	12/02/20 04:01	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	71	26 - 127	12/02/20 04:01	

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-10-12-201109	**Units:**	ug/Kg
Lab Code:	K2010456-014	**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	440	22	5	12/02/20 04:24	11/12/20	
2,4-D	ND U	440	69	5	12/02/20 04:24	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	12/02/20 04:24	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-12-14-201109	**Units:**	ug/Kg
Lab Code:	K2010456-015	**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	410	20	5	12/02/20 04:47	11/12/20	
2,4-D	ND U	410	63	5	12/02/20 04:47	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	61	26 - 127	12/02/20 04:47	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-14-16-201109	**Units:**	ug/Kg
Lab Code:	K2010456-016	**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	74	3.6	1	12/02/20 15:51	11/12/20	
2,4-D	ND U	74	12	1	12/02/20 15:51	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	58	26 - 127	12/02/20 15:51	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 14:45
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-014SC-B-16-17.3-201109	**Units:**	ug/Kg
Lab Code:	K2010456-017	**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	73	3.6	1	12/02/20 16:14	11/12/20	
2,4-D	ND U	73	12	1	12/02/20 16:14	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	12/02/20 16:14	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-00-02-201109	**Units:**	ug/Kg
Lab Code:	K2010456-018	**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	70	3.4	1	12/02/20 16:37	11/12/20	
2,4-D	ND U	70	11	1	12/02/20 16:37	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	59	26 - 127	12/02/20 16:37	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-02-04-201109	**Units:**	ug/Kg
Lab Code:	K2010456-019	**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	370	18	5	12/02/20 05:10	11/12/20	
2,4-D	ND U	370	58	5	12/02/20 05:10	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	57	26 - 127	12/02/20 05:10	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-04-06-201109	**Units:**	ug/Kg
Lab Code:	K2010456-020	**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	66	3.2	1	12/02/20 06:19	11/13/20	
2,4-D	ND U	66	11	1	12/02/20 06:19	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	53	26 - 127	12/02/20 06:19	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-06-08-201109	**Units:**	ug/Kg
Lab Code:	K2010456-021	**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	66	3.2	1	12/02/20 06:42	11/13/20	
2,4-D	ND U	66	11	1	12/02/20 06:42	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	56	26 - 127	12/02/20 06:42	

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Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-08-10-201109	**Units:**	ug/Kg
Lab Code:	K2010456-022	**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	12/02/20 17:46	11/12/20	
2,4-D	ND U	57	8.9	1	12/02/20 17:46	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	54	26 - 127	12/02/20 17:46	

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-10-12-201109	**Units:**	ug/Kg
Lab Code:	K2010456-023	**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	12/02/20 07:04	11/13/20	
2,4-D	ND U	65	11	1	12/02/20 07:04	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	55	26 - 127	12/02/20 07:04	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20 09:20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-057SC-B-12-13.5-201109	**Units:**	ug/Kg
Lab Code:	K2010456-024	**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	66	3.2	1	12/02/20 07:27	11/13/20	
2,4-D	ND U	66	11	1	12/02/20 07:27	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	51	26 - 127	12/02/20 07:27	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20
Sample Matrix:	Sediment	**Date Received:**	11/11/20 10:10
Sample Name:	USMPDI-1057SC-B-06-08-201109	**Units:**	ug/Kg
Lab Code:	K2010456-025	**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	66	3.2	1	12/02/20 08:36	11/13/20	
2,4-D	ND U	66	11	1	12/02/20 08:36	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	50	26 - 127	12/02/20 08:36	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2017965-04	**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	12/02/20 05:33	11/13/20	
2,4-D	ND U	50	7.7	1	12/02/20 05:33	11/13/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	52	26 - 127	12/02/20 05:33	

Analytical Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	NA
Sample Matrix:	Sediment	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	ug/Kg
Lab Code:	KQ2018489-02	**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	12/02/20 09:44	11/12/20	
2,4-D	ND U	50	7.7	1	12/02/20 09:44	11/12/20	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
DCAA	63	26 - 127	12/02/20 09:44	

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment

Service Request: K2010456
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2017965-03

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	81.5	114	33		1	12/02/20 05:56
2,4-D	7.7	76.6	106	32		1	12/02/20 05:56

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment

Service Request: K2010456
Date Collected: NA
Date Received:

Sample Name: Lab Control Sample
Lab Code: KQ2018489-01

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	85.0	120	34		1	12/02/20 10:07
2,4-D	7.7	80.1	117	37		1	12/02/20 10:07

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment

Service Request: K2010456
Date Collected: 11/09/20 09:20
Date Received: 11/11/20

Sample Name: USMPDI-057SC-B-08-10-201109
Lab Code: KQ2018489-03

Units: ug/Kg
Basis: Dry
Percent Solids: 86.6

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	2.8	102	149	37		1	12/02/20 18:08
2,4-D	8.9	94.9	131	32		1	12/02/20 18:08

Confirmation Results

Client: Anchor QEA, LLC
Project: GascoSiltronic: US Moorings
SRM Matrix: Sediment

Service Request: K2010456
Date Collected: 11/09/20 09:20
Date Received: 11/11/20

Sample Name: USMPDI-057SC-B-08-10-201109
Lab Code: KQ2018489-04

Units: ug/Kg
Basis: Dry
Percent Solids: 86.6

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	2.8	101	147	37		1	12/02/20 18:31
2,4-D	8.9	94.5	130	32		1	12/02/20 18:31

Client: Anchor QEA, LLC **Service Request:** K2010456
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

SURROGATE RECOVERY SUMMARY
Chlorinated Herbicides by GC

Analysis Method: 8151A
Extraction Method: Method

Sample Name	Lab Code	DCAA 26-127
USMPDI-012SC-D-00-02-201109	K2010456-001	59
USMPDI-012SC-D-02-04-201109	K2010456-002	66
USMPDI-012SC-D-04-06-201109	K2010456-003	53
USMPDI-012SC-D-06-08-201109	K2010456-004	59
USMPDI-012SC-D-08-10-201109	K2010456-005	59
USMPDI-012SC-D-10-12-201109	K2010456-006	56
USMPDI-012SC-D-12-14-201109	K2010456-007	54
USMPDI-012SC-D-14-15.9-201109	K2010456-008	52
USMPDI-014SC-B-00-02-201109	K2010456-009	64
USMPDI-014SC-B-02-04-201109	K2010456-010	63
USMPDI-014SC-B-04-06-201109	K2010456-011	57
USMPDI-014SC-B-06-08-201109	K2010456-012	64
USMPDI-014SC-B-08-10-201109	K2010456-013	71
USMPDI-014SC-B-10-12-201109	K2010456-014	54
USMPDI-014SC-B-12-14-201109	K2010456-015	61
USMPDI-014SC-B-14-16-201109	K2010456-016	58
USMPDI-014SC-B-16-17.3-201109	K2010456-017	56
USMPDI-057SC-B-00-02-201109	K2010456-018	59
USMPDI-057SC-B-02-04-201109	K2010456-019	57
USMPDI-057SC-B-04-06-201109	K2010456-020	53
USMPDI-057SC-B-06-08-201109	K2010456-021	56
USMPDI-057SC-B-08-10-201109	K2010456-022	54
USMPDI-057SC-B-10-12-201109	K2010456-023	55
USMPDI-057SC-B-12-13.5-201109	K2010456-024	51
USMPDI-1057SC-B-06-08-201109	K2010456-025	50
Method Blank	KQ2017965-04	52
Method Blank	KQ2018489-02	63
Lab Control Sample	KQ2017965-03	58
Lab Control Sample	KQ2018489-01	61
USMPDI-057SC-B-08-10-201109	KQ2018489-03	63
USMPDI-057SC-B-08-10-201109	KQ2018489-04	64

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Collected:**	11/09/20
Sample Matrix:	Sediment	**Date Received:**	11/11/20
		Date Analyzed:	12/2/20
		Date Extracted:	11/12/20

Duplicate Matrix Spike Summary
Chlorinated Herbicides by GC

Sample Name:	USMPDI-057SC-B-08-10-201109	**Units:**	ug/Kg
Lab Code:	K2010456-022	**Basis:**	Dry
Analysis Method:	8151A		
Prep Method:	Method		

		Matrix Spike			**Duplicate Matrix Spike**					
		KQ2018489-03			KQ2018489-04					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
2,4,5-TP	ND U	102	192	53	101	192	53	34-129	<1	40
2,4-D	ND U	94.9	192	49	94.5	192	49	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	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20
Sample Matrix:	Sediment	**Date Extracted:**	11/13/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	705487

Lab Control Sample
KQ2017965-03

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	81.5	167	49	46-125
2,4-D	76.6	167	46	46-120

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Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20
Sample Matrix:	Sediment	**Date Extracted:**	11/12/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Units:**	ug/Kg
Prep Method:	Method	**Basis:**	Dry
		Analysis Lot:	705654

Lab Control Sample
KQ2018489-01

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
2,4,5-TP	85.0	167	51	46-125
2,4-D	80.1	167	48	46-120

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	NA
Sample Matrix:	Sediment	**Date Extracted:**	11/12/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369679

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-014SC-B-08-10-201109	K2010456-013	J:\gc24\data\120120\12010029.D\	12/02/20 04:01
USMPDI-014SC-B-10-12-201109	K2010456-014	J:\gc24\data\120120\12010030.D\	12/02/20 04:24
USMPDI-014SC-B-12-14-201109	K2010456-015	J:\gc24\data\120120\12010031.D\	12/02/20 04:47
USMPDI-057SC-B-02-04-201109	K2010456-019	J:\gc24\data\120120\12010032.D\	12/02/20 05:10

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 05:33
Sample Matrix:	Sediment	**Date Extracted:**	11/13/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017965-04	**File ID:**	J:\gc24\data\120120\12010033.D\
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369767

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Lab Control Sample	KQ2017965-03	J:\gc24\data\120120\12010034.D\	12/02/20 05:56
USMPDI-057SC-B-04-06-201109	K2010456-020	J:\gc24\data\120120\12010035.D\	12/02/20 06:19
USMPDI-057SC-B-06-08-201109	K2010456-021	J:\gc24\data\120120\12010036.D\	12/02/20 06:42
USMPDI-057SC-B-10-12-201109	K2010456-023	J:\gc24\data\120120\12010037.D\	12/02/20 07:04
USMPDI-057SC-B-12-13.5-201109	K2010456-024	J:\gc24\data\120120\12010038.D\	12/02/20 07:27
USMPDI-1057SC-B-06-08-201109	K2010456-025	J:\gc24\data\120120\12010041.D\	12/02/20 08:36

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Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 09:44
Sample Matrix:	Sediment	**Date Extracted:**	11/12/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:	Method Blank	**Instrument ID:**	K-GC-24
Lab Code:	KQ2018489-02	**File ID:**	J:\gc24\data\120120\12010044.D\
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369679

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-014SC-B-08-10-201109	K2010456-013	J:\gc24\data\120120\12010029.D\	12/02/20 04:01
USMPDI-014SC-B-10-12-201109	K2010456-014	J:\gc24\data\120120\12010030.D\	12/02/20 04:24
USMPDI-014SC-B-12-14-201109	K2010456-015	J:\gc24\data\120120\12010031.D\	12/02/20 04:47
USMPDI-057SC-B-02-04-201109	K2010456-019	J:\gc24\data\120120\12010032.D\	12/02/20 05:10
Lab Control Sample	KQ2018489-01	J:\gc24\data\120120\12010045.D\	12/02/20 10:07
USMPDI-012SC-D-00-02-201109	K2010456-001	J:\gc24\data\120120\12010046.D\	12/02/20 10:30
USMPDI-012SC-D-02-04-201109	K2010456-002	J:\gc24\data\120120\12010047.D\	12/02/20 10:53
USMPDI-012SC-D-04-06-201109	K2010456-003	J:\gc24\data\120120\12010048.D\	12/02/20 11:16
USMPDI-012SC-D-06-08-201109	K2010456-004	J:\gc24\data\120120\12010049.D\	12/02/20 11:39
USMPDI-012SC-D-08-10-201109	K2010456-005	J:\gc24\data\120120\12010050.D\	12/02/20 12:02
USMPDI-012SC-D-10-12-201109	K2010456-006	J:\gc24\data\120120\12010053.D\	12/02/20 13:11
USMPDI-012SC-D-12-14-201109	K2010456-007	J:\gc24\data\120120\12010054.D\	12/02/20 13:33
USMPDI-012SC-D-14-15.9-201109	K2010456-008	J:\gc24\data\120120\12010055.D\	12/02/20 13:56
USMPDI-014SC-B-00-02-201109	K2010456-009	J:\gc24\data\120120\12010056.D\	12/02/20 14:19
USMPDI-014SC-B-02-04-201109	K2010456-010	J:\gc24\data\120120\12010057.D\	12/02/20 14:42
USMPDI-014SC-B-04-06-201109	K2010456-011	J:\gc24\data\120120\12010058.D\	12/02/20 15:05
USMPDI-014SC-B-06-08-201109	K2010456-012	J:\gc24\data\120120\12010059.D\	12/02/20 15:28
USMPDI-014SC-B-14-16-201109	K2010456-016	J:\gc24\data\120120\12010060.D\	12/02/20 15:51
USMPDI-014SC-B-16-17.3-201109	K2010456-017	J:\gc24\data\120120\12010061.D\	12/02/20 16:14
USMPDI-057SC-B-00-02-201109	K2010456-018	J:\gc24\data\120120\12010062.D\	12/02/20 16:37
USMPDI-057SC-B-08-10-201109	K2010456-022	J:\gc24\data\120120\12010065.D\	12/02/20 17:46
USMPDI-057SC-B-08-10-201109MS	KQ2018489-03	J:\gc24\data\120120\12010066.D\	12/02/20 18:08
USMPDI-057SC-B-08-10-201109DMS	KQ2018489-04	J:\gc24\data\120120\12010067.D\	12/02/20 18:31

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	NA
Sample Matrix:	Sediment	**Date Extracted:**	11/13/20

Method Blank Summary
Chlorinated Herbicides by GC

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369767

This Method Blank applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-1057SC-B-06-08-201109	K2010456-025	J:\gc24\data\120120\12010041.D\	12/02/20 08:36

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Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	NA
Sample Matrix:	Sediment	**Date Extracted:**	11/12/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369679

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-014SC-B-08-10-201109	K2010456-013	J:\gc24\data\120120\12010029.D\	12/02/20 04:01
USMPDI-014SC-B-10-12-201109	K2010456-014	J:\gc24\data\120120\12010030.D\	12/02/20 04:24
USMPDI-014SC-B-12-14-201109	K2010456-015	J:\gc24\data\120120\12010031.D\	12/02/20 04:47
USMPDI-057SC-B-02-04-201109	K2010456-019	J:\gc24\data\120120\12010032.D\	12/02/20 05:10

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 05:56
Sample Matrix:	Sediment	**Date Extracted:**	11/13/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-24
Lab Code:	KQ2017965-03	**File ID:**	J:\gc24\data\120120\12010034.D\
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369767

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
Method Blank	KQ2017965-04	J:\gc24\data\120120\12010033.D\	12/02/20 05:33
USMPDI-057SC-B-04-06-201109	K2010456-020	J:\gc24\data\120120\12010035.D\	12/02/20 06:19
USMPDI-057SC-B-06-08-201109	K2010456-021	J:\gc24\data\120120\12010036.D\	12/02/20 06:42
USMPDI-057SC-B-10-12-201109	K2010456-023	J:\gc24\data\120120\12010037.D\	12/02/20 07:04
USMPDI-057SC-B-12-13.5-201109	K2010456-024	J:\gc24\data\120120\12010038.D\	12/02/20 07:27
USMPDI-1057SC-B-06-08-201109	K2010456-025	J:\gc24\data\120120\12010041.D\	12/02/20 08:36

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 10:07
Sample Matrix:	Sediment	**Date Extracted:**	11/12/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:	Lab Control Sample	**Instrument ID:**	K-GC-24
Lab Code:	KQ2018489-01	**File ID:**	J:\gc24\data\120120\12010045.D\
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369679

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-014SC-B-08-10-201109	K2010456-013	J:\gc24\data\120120\12010029.D\	12/02/20 04:01
USMPDI-014SC-B-10-12-201109	K2010456-014	J:\gc24\data\120120\12010030.D\	12/02/20 04:24
USMPDI-014SC-B-12-14-201109	K2010456-015	J:\gc24\data\120120\12010031.D\	12/02/20 04:47
USMPDI-057SC-B-02-04-201109	K2010456-019	J:\gc24\data\120120\12010032.D\	12/02/20 05:10
Method Blank	KQ2018489-02	J:\gc24\data\120120\12010044.D\	12/02/20 09:44
USMPDI-012SC-D-00-02-201109	K2010456-001	J:\gc24\data\120120\12010046.D\	12/02/20 10:30
USMPDI-012SC-D-02-04-201109	K2010456-002	J:\gc24\data\120120\12010047.D\	12/02/20 10:53
USMPDI-012SC-D-04-06-201109	K2010456-003	J:\gc24\data\120120\12010048.D\	12/02/20 11:16
USMPDI-012SC-D-06-08-201109	K2010456-004	J:\gc24\data\120120\12010049.D\	12/02/20 11:39
USMPDI-012SC-D-08-10-201109	K2010456-005	J:\gc24\data\120120\12010050.D\	12/02/20 12:02
USMPDI-012SC-D-10-12-201109	K2010456-006	J:\gc24\data\120120\12010053.D\	12/02/20 13:11
USMPDI-012SC-D-12-14-201109	K2010456-007	J:\gc24\data\120120\12010054.D\	12/02/20 13:33
USMPDI-012SC-D-14-15.9-201109	K2010456-008	J:\gc24\data\120120\12010055.D\	12/02/20 13:56
USMPDI-014SC-B-00-02-201109	K2010456-009	J:\gc24\data\120120\12010056.D\	12/02/20 14:19
USMPDI-014SC-B-02-04-201109	K2010456-010	J:\gc24\data\120120\12010057.D\	12/02/20 14:42
USMPDI-014SC-B-04-06-201109	K2010456-011	J:\gc24\data\120120\12010058.D\	12/02/20 15:05
USMPDI-014SC-B-06-08-201109	K2010456-012	J:\gc24\data\120120\12010059.D\	12/02/20 15:28
USMPDI-014SC-B-14-16-201109	K2010456-016	J:\gc24\data\120120\12010060.D\	12/02/20 15:51
USMPDI-014SC-B-16-17.3-201109	K2010456-017	J:\gc24\data\120120\12010061.D\	12/02/20 16:14
USMPDI-057SC-B-00-02-201109	K2010456-018	J:\gc24\data\120120\12010062.D\	12/02/20 16:37
USMPDI-057SC-B-08-10-201109	K2010456-022	J:\gc24\data\120120\12010065.D\	12/02/20 17:46
USMPDI-057SC-B-08-10-201109MS	KQ2018489-03	J:\gc24\data\120120\12010066.D\	12/02/20 18:08
USMPDI-057SC-B-08-10-201109DMS	KQ2018489-04	J:\gc24\data\120120\12010067.D\	12/02/20 18:31

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QA/QC Report

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	NA
Sample Matrix:	Sediment	**Date Extracted:**	11/13/20

Lab Control Sample Summary
Chlorinated Herbicides by GC

Sample Name:		**Instrument ID:**	
Lab Code:		**File ID:**	
Analysis Method:	8151A	**Analysis Lot:**	705487,705654
Prep Method:	Method	**Extraction Lot:**	369767

This Lab Control Sample applies to the following analyses.

Sample Name	Lab Code	File ID	Date Analyzed
USMPDI-1057SC-B-06-08-201109	K2010456-025	J:\gc24\data\120120\12010041.D\	12/02/20 08:36

Client: Anchor QEA, LLC **Service Request:** K2010456
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-24

#	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: GascoSiltronic: US Moorings

Service Request: K2010456
Calibration Date: 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

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

Signal ID: RTX-CLP2

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	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	

Client: Anchor QEA, LLC **Service Request:** K2010456
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** ZB-XLB-HT
Instrument ID: K-GC-24

#	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: GascoSiltronic: US Moorings

Service Request: K2010456
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

		Calibration Evaluation				Calibration Evaluation	
Analyte Name	Compound Type	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 **Service Request:** K2010456
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** RTX-CLP2
Instrument ID: K-GC-24

#	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 **Service Request:** K2010456
Project: GascoSiltronic: US Moorings **Calibration Date:** 10/21/2020

Initial Calibration Verification Summary
Chlorinated Herbicides by GC

Calibration ID: KC2000566 **Signal ID:** ZB-XLB-HT
Instrument ID: K-GC-24

#	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

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 03:38

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010028.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705487
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.3	9.368E4	8.013E4	-14.5	NA	±20	Average RF
2,4-D	94.0	75.3	2.124E4	1.702E4	-19.9	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	85.7	1.82E4	1.56E4	-14.3	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 03:38

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010028.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705487
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	111	2.03E5	2.361E5	16.3	NA	±20	Average RF
2,4-D	94.0	99.1	5.12E4	5.4E4	5.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	111	4.23E4	4.715E4	11.5	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010040.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705487
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.5	9.368E4	8.031E4	-14.3	NA	±20	Average RF
2,4-D	94.0	75.8	2.124E4	1.714E4	-19.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	85.3	1.82E4	1.553E4	-14.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010040.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705487
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	114	2.03E5	2.423E5	19.3	NA	±20	Average RF
2,4-D	94.0	101	5.12E4	5.514E4	7.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	114	4.23E4	4.829E4	14.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010040.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	114	2.03E5	2.423E5	19.3	NA	±20	Average RF
2,4-D	94.0	101	5.12E4	5.514E4	7.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	114	4.23E4	4.829E4	14.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 08:13

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010040.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.5	9.368E4	8.031E4	-14.3	NA	±20	Average RF
2,4-D	94.0	75.8	2.124E4	1.714E4	-19.3	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	85.3	1.82E4	1.553E4	-14.7	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 12:25

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010051.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.6	9.368E4	8.04E4	-14.2	NA	±20	Average RF
2,4-D	94.0	75.4	2.124E4	1.703E4	-19.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	85.6	1.82E4	1.558E4	-14.4	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 12:25

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010051.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	113	2.03E5	2.403E5	18.4	NA	±20	Average RF
2,4-D	94.0	100	5.12E4	5.465E4	6.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	113	4.23E4	4.762E4	12.6	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 17:00

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010063.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.3	9.368E4	8.011E4	-14.5	NA	±20	Average RF
2,4-D	94.0	75.1	2.124E4	1.697E4	-20.1	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	85.0	1.82E4	1.547E4	-15.0	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 17:00

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010063.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	115	2.03E5	2.456E5	21.0*	NA	±20	Average RF
2,4-D	94.0	102	5.12E4	5.572E4	8.8	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	116	4.23E4	4.914E4	16.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 21:34

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010075.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	82.2	9.368E4	8.101E4	-13.5	NA	±20	Average RF
2,4-D	94.0	75.7	2.124E4	1.71E4	-19.5	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	88.1	1.82E4	1.602E4	-11.9	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/02/20 21:34

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010075.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	116	2.03E5	2.467E5	21.5*	NA	±20	Average RF
2,4-D	94.0	103	5.12E4	5.634E4	10.0	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	116	4.23E4	4.917E4	16.3	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/03/20 00:38

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010083.D\	**Calibration ID:**	KC2000566
Signal ID:	RTX-CLP2	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	81.8	9.368E4	8.062E4	-13.9	NA	±20	Average RF
2,4-D	94.0	75.5	2.124E4	1.706E4	-19.7	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	87.8	1.82E4	1.598E4	-12.2	NA	±20	Average RF

Client:	Anchor QEA, LLC	**Service Request:**	K2010456
Project:	GascoSiltronic: US Moorings	**Date Analyzed:**	12/03/20 00:38

Continuing Calibration Verification (CCV) Summary
Chlorinated Herbicides by GC

Analysis Method:	8151A	**Calibration Date:**	10/21/2020
File ID:	J:\gc24\data\120120\12010083.D\	**Calibration ID:**	KC2000566
Signal ID:	ZB-XLB-HT	**Analysis Lot:**	705654
		Units:	ppb

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
2,4,5-TP	95.1	114	2.03E5	2.431E5	19.7	NA	±20	Average RF
2,4-D	94.0	103	5.12E4	5.592E4	9.2	NA	±20	Average RF

Analyte Name	Expected	Result	Average RF	CCV RF	% D	% Drift	Criteria	Curve Fit
DCAA	100	115	4.23E4	4.869E4	15.1	NA	±20	Average RF

Client: Anchor QEA, LLC **Service Request:**K2010456
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**705487
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\120120\12010027.D\	Continuing Calibration Blank	KQ2019138-02	12/2/2020	03:15:00	
J:\gc24\data\120120\12010028.D\	Continuing Calibration Verification	KQ2019138-01	12/2/2020	03:38:00	
J:\gc24\data\120120\12010029.D\	USMPDI-014SC-B-08-10-201109	K2010456-013	12/2/2020	04:01:00	
J:\gc24\data\120120\12010030.D\	USMPDI-014SC-B-10-12-201109	K2010456-014	12/2/2020	04:24:00	
J:\gc24\data\120120\12010031.D\	USMPDI-014SC-B-12-14-201109	K2010456-015	12/2/2020	04:47:00	
J:\gc24\data\120120\12010032.D\	USMPDI-057SC-B-02-04-201109	K2010456-019	12/2/2020	05:10:00	
J:\gc24\data\120120\12010033.D\	Method Blank	KQ2017965-04	12/2/2020	05:33:00	
J:\gc24\data\120120\12010034.D\	Lab Control Sample	KQ2017965-03	12/2/2020	05:56:00	
J:\gc24\data\120120\12010035.D\	USMPDI-057SC-B-04-06-201109	K2010456-020	12/2/2020	06:19:00	
J:\gc24\data\120120\12010036.D\	USMPDI-057SC-B-06-08-201109	K2010456-021	12/2/2020	06:42:00	
J:\gc24\data\120120\12010037.D\	USMPDI-057SC-B-10-12-201109	K2010456-023	12/2/2020	07:04:00	
J:\gc24\data\120120\12010038.D\	USMPDI-057SC-B-12-13.5-201109	K2010456-024	12/2/2020	07:27:00	
J:\gc24\data\120120\12010039.D\	Continuing Calibration Blank	KQ2019138-04	12/2/2020	07:50:00	
J:\gc24\data\120120\12010040.D\	Continuing Calibration Verification	KQ2019138-03	12/2/2020	08:13:00	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: Anchor QEA, LLC **Service Request:**K2010456
Project: GascoSiltronic: US Moorings

Analysis Run Log
Chlorinated Herbicides by GC

Analysis Method: 8151A **Analysis Lot:**705654
Instrument ID:K-GC-24

Raw Data File	Sample Name	Lab Code	Date Analyzed	Time Analyzed	Q
J:\gc24\data\120120\12010039.D\	Continuing Calibration Blank	KQ2019199-02	12/2/2020	07:50:00	
J:\gc24\data\120120\12010040.D\	Continuing Calibration Verification	KQ2019199-01	12/2/2020	08:13:00	
J:\gc24\data\120120\12010041.D\	USMPDI-1057SC-B-06-08-201109	K2010456-025	12/2/2020	08:36:00	
J:\gc24\data\120120\12010042.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	08:59:00	
J:\gc24\data\120120\12010044.D\	Method Blank	KQ2018489-02	12/2/2020	09:44:00	
J:\gc24\data\120120\12010045.D\	Lab Control Sample	KQ2018489-01	12/2/2020	10:07:00	
J:\gc24\data\120120\12010046.D\	USMPDI-012SC-D-00-02-201109	K2010456-001	12/2/2020	10:30:00	
J:\gc24\data\120120\12010047.D\	USMPDI-012SC-D-02-04-201109	K2010456-002	12/2/2020	10:53:00	
J:\gc24\data\120120\12010048.D\	USMPDI-012SC-D-04-06-201109	K2010456-003	12/2/2020	11:16:00	
J:\gc24\data\120120\12010049.D\	USMPDI-012SC-D-06-08-201109	K2010456-004	12/2/2020	11:39:00	
J:\gc24\data\120120\12010050.D\	USMPDI-012SC-D-08-10-201109	K2010456-005	12/2/2020	12:02:00	
J:\gc24\data\120120\12010051.D\	Continuing Calibration Verification	KQ2019199-03	12/2/2020	12:25:00	
J:\gc24\data\120120\12010052.D\	Continuing Calibration Blank	KQ2019199-04	12/2/2020	12:48:00	
J:\gc24\data\120120\12010053.D\	USMPDI-012SC-D-10-12-201109	K2010456-006	12/2/2020	13:11:00	
J:\gc24\data\120120\12010054.D\	USMPDI-012SC-D-12-14-201109	K2010456-007	12/2/2020	13:33:00	
J:\gc24\data\120120\12010055.D\	USMPDI-012SC-D-14-15.9-201109	K2010456-008	12/2/2020	13:56:00	
J:\gc24\data\120120\12010056.D\	USMPDI-014SC-B-00-02-201109	K2010456-009	12/2/2020	14:19:00	
J:\gc24\data\120120\12010057.D\	USMPDI-014SC-B-02-04-201109	K2010456-010	12/2/2020	14:42:00	
J:\gc24\data\120120\12010058.D\	USMPDI-014SC-B-04-06-201109	K2010456-011	12/2/2020	15:05:00	
J:\gc24\data\120120\12010059.D\	USMPDI-014SC-B-06-08-201109	K2010456-012	12/2/2020	15:28:00	
J:\gc24\data\120120\12010060.D\	USMPDI-014SC-B-14-16-201109	K2010456-016	12/2/2020	15:51:00	
J:\gc24\data\120120\12010061.D\	USMPDI-014SC-B-16-17.3-201109	K2010456-017	12/2/2020	16:14:00	
J:\gc24\data\120120\12010062.D\	USMPDI-057SC-B-00-02-201109	K2010456-018	12/2/2020	16:37:00	
J:\gc24\data\120120\12010063.D\	Continuing Calibration Verification	KQ2019199-05	12/2/2020	17:00:00	
J:\gc24\data\120120\12010064.D\	Continuing Calibration Blank	KQ2019199-06	12/2/2020	17:23:00	
J:\gc24\data\120120\12010065.D\	USMPDI-057SC-B-08-10-201109	K2010456-022	12/2/2020	17:46:00	
J:\gc24\data\120120\12010066.D\	USMPDI-057SC-B-08-10-201109 MS	KQ2018489-03	12/2/2020	18:08:00	
J:\gc24\data\120120\12010067.D\	USMPDI-057SC-B-08-10-201109 DMS	KQ2018489-04	12/2/2020	18:31:00	
J:\gc24\data\120120\12010068.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	18:54:00	
J:\gc24\data\120120\12010069.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	19:17:00	
J:\gc24\data\120120\12010070.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	19:40:00	
J:\gc24\data\120120\12010071.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	20:03:00	
J:\gc24\data\120120\12010072.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	20:26:00	
J:\gc24\data\120120\12010073.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	20:49:00	
J:\gc24\data\120120\12010074.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	21:12:00	
J:\gc24\data\120120\12010075.D\	Continuing Calibration Verification	KQ2019199-07	12/2/2020	21:34:00	
J:\gc24\data\120120\12010076.D\	Continuing Calibration Blank	KQ2019199-08	12/2/2020	21:57:00	
J:\gc24\data\120120\12010077.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	22:20:00	
J:\gc24\data\120120\12010078.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	22:43:00	
J:\gc24\data\120120\12010079.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	23:06:00	
J:\gc24\data\120120\12010080.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	23:29:00	
J:\gc24\data\120120\12010081.D\	ZZZZZZZ	ZZZZZZZ	12/2/2020	23:52:00	
J:\gc24\data\120120\12010082.D\	ZZZZZZZ	ZZZZZZZ	12/3/2020	00:15:00	
J:\gc24\data\120120\12010083.D\	Continuing Calibration Verification	KQ2019199-09	12/3/2020	00:38:00	
J:\gc24\data\120120\12010084.D\	Continuing Calibration Blank	KQ2019199-10	12/3/2020	01:00:00	

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2010456
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 369679
Analytical Method: 8151A **Extraction Date:** 11/12/20 10:09

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-012SC-D-00-02-201109	K2010456-001	11/9/20	11/11/20	30.008 g	50 mL	72.3
USMPDI-012SC-D-02-04-201109	K2010456-002	11/9/20	11/11/20	30.012 g	50 mL	78.0
USMPDI-012SC-D-04-06-201109	K2010456-003	11/9/20	11/11/20	30.030 g	50 mL	86.6
USMPDI-012SC-D-06-08-201109	K2010456-004	11/9/20	11/11/20	30.003 g	50 mL	78.1
USMPDI-012SC-D-08-10-201109	K2010456-005	11/9/20	11/11/20	30.103 g	50 mL	84.0
USMPDI-012SC-D-10-12-201109	K2010456-006	11/9/20	11/11/20	30.010 g	50 mL	76.6
USMPDI-012SC-D-12-14-201109	K2010456-007	11/9/20	11/11/20	30.072 g	50 mL	68.7
USMPDI-012SC-D-14-15.9-201109	K2010456-008	11/9/20	11/11/20	30.076 g	50 mL	74.0
USMPDI-014SC-B-00-02-201109	K2010456-009	11/9/20	11/11/20	30.097 g	50 mL	51.4
USMPDI-014SC-B-02-04-201109	K2010456-010	11/9/20	11/11/20	30.066 g	50 mL	54.0
USMPDI-014SC-B-04-06-201109	K2010456-011	11/9/20	11/11/20	30.090 g	50 mL	56.1
USMPDI-014SC-B-06-08-201109	K2010456-012	11/9/20	11/11/20	30.080 g	50 mL	59.0
USMPDI-014SC-B-08-10-201109	K2010456-013	11/9/20	11/11/20	30.008 g	50 mL	58.2
USMPDI-014SC-B-10-12-201109	K2010456-014	11/9/20	11/11/20	30.141 g	50 mL	56.0
USMPDI-014SC-B-12-14-201109	K2010456-015	11/9/20	11/11/20	30.110 g	50 mL	61.0
USMPDI-014SC-B-14-16-201109	K2010456-016	11/9/20	11/11/20	30.142 g	50 mL	67.7
USMPDI-014SC-B-16-17.3-201109	K2010456-017	11/9/20	11/11/20	30.233 g	50 mL	68.0
USMPDI-057SC-B-00-02-201109	K2010456-018	11/9/20	11/11/20	30.104 g	50 mL	70.8
USMPDI-057SC-B-02-04-201109	K2010456-019	11/9/20	11/11/20	30.096 g	50 mL	66.6
USMPDI-057SC-B-08-10-201109	K2010456-022	11/9/20	11/11/20	30.198 g	50 mL	86.6
Lab Control Sample	KQ2018489-01LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2018489-02MB	NA	NA	30.2330 g	50 mL	
Matrix Spike	KQ2018489-03MS	11/9/20	11/11/20	30.095 g	50 mL	86.6
Duplicate Matrix Spike	KQ2018489-04DMS	11/9/20	11/11/20	30.017 g	50 mL	86.6

Prep Summary Report

Client: Anchor QEA, LLC **Service Request:**K2010456
Project: GascoSiltronic: US Moorings
Sample Matrix: Sediment

Chlorinated Herbicides by GC

Prep Method: Method **Extraction Lot:** 369767
Analytical Method: 8151A **Extraction Date:** 11/13/20 11:38

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Amount	Percent Solids
USMPDI-057SC-B-04-06-201109	K2010456-020	11/9/20	11/11/20	30.055 g	50 mL	75.7
USMPDI-057SC-B-06-08-201109	K2010456-021	11/9/20	11/11/20	30.076 g	50 mL	75.5
USMPDI-057SC-B-10-12-201109	K2010456-023	11/9/20	11/11/20	30.044 g	50 mL	76.4
USMPDI-057SC-B-12-13.5-201109	K2010456-024	11/9/20	11/11/20	30.238 g	50 mL	75.2
USMPDI-1057SC-B-06-08-201109	K2010456-025	11/9/20	11/11/20	30.297 g	50 mL	75.5
Lab Control Sample	KQ2017965-03LCS	NA	NA	30.00 g	50 mL	
Method Blank	KQ2017965-04MB	NA	NA	30.2970 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:** 705632 **Method/Testcode:** SM 2540 G/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2010456-001	Solids, Total	N/A		Sediment	72.30 Percent	26.5046 g	72.3 Percent	1					12/2/20 16:30:00	N	IV
K2010456-002	Solids, Total	N/A		Sediment	78.00 Percent	29.4524 g	78.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-003	Solids, Total	N/A		Sediment	86.60 Percent	26.1248 g	86.6 Percent	1					12/2/20 16:30:00	N	IV
K2010456-004	Solids, Total	N/A		Sediment	78.10 Percent	31.2076 g	78.1 Percent	1					12/2/20 16:30:00	N	IV
K2010456-005	Solids, Total	N/A		Sediment	84.00 Percent	26.4713 g	84.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-006	Solids, Total	N/A		Sediment	76.60 Percent	32.3942 g	76.6 Percent	1					12/2/20 16:30:00	N	IV
K2010456-007	Solids, Total	N/A		Sediment	68.70 Percent	32.9289 g	68.7 Percent	1					12/2/20 16:30:00	N	IV
K2010456-008	Solids, Total	N/A		Sediment	74.00 Percent	25.3684 g	74.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-009	Solids, Total	N/A		Sediment	51.40 Percent	30.6161 g	51.4 Percent	1					12/2/20 16:30:00	N	IV
K2010456-010	Solids, Total	N/A		Sediment	54.00 Percent	30.8681 g	54.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-011	Solids, Total	N/A		Sediment	56.10 Percent	30.4161 g	56.1 Percent	1					12/2/20 16:30:00	N	IV
K2010456-012	Solids, Total	N/A		Sediment	59.00 Percent	27.2839 g	59.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-013	Solids, Total	N/A		Sediment	58.20 Percent	27.2527 g	58.2 Percent	1					12/2/20 16:30:00	N	IV
K2010456-014	Solids, Total	N/A		Sediment	56.00 Percent	29.2369 g	56.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-015	Solids, Total	N/A		Sediment	61.00 Percent	31.5889 g	61.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-016	Solids, Total	N/A		Sediment	67.70 Percent	25.4483 g	67.7 Percent	1					12/2/20 16:30:00	N	IV
K2010456-017	Solids, Total	N/A		Sediment	68.00 Percent	32.5844 g	68.0 Percent	1					12/2/20 16:30:00	N	IV
K2010456-018	Solids, Total	N/A		Sediment	70.80 Percent	35.8506 g	70.8 Percent	1					12/2/20 16:30:00	N	IV
K2010456-019	Solids, Total	N/A		Sediment	66.60 Percent	29.6522 g	66.6 Percent	1					12/2/20 16:30:00	N	IV
K2010456-020	Solids, Total	N/A		Sediment	75.70 Percent	26.4830 g	75.7 Percent	1					12/2/20 16:30:00	N	IV
KQ2019218-01	Solids, Total	DUP	K2010456-002	Sediment	77.00 Percent	28.6756 g	77.0 Percent	1				1	12/2/20 16:30:00	N	IV
KQ2019218-02	Solids, Total	DUP	K2010456-012	Sediment	58.70 Percent	28.4040 g	58.7 Percent	1				<1	12/2/20 16:30:00	N	IV
KQ2019218-03	Solids, Total	MB		Sediment	0.00 Percent	51.5834 g	0.0 Percent	1					12/2/20 16:30:00	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 #.: K2010456 Method: SM 2540 G

Run: 705632

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Sample Number		MB	456-001	456-002	456-002DUP	456-003	456-004
Crucible Number		SQUANCH	3U	408	KANE	PIE	PETER
SampleWeight		51.5834	26.5046	29.4524	28.6756	26.1248	31.2076
Tare Weight	Date	52.7314	57.2130	76.6074	48.2987	51.2281	46.5538
Tare + Dry Wt. (1)	12/3/2020	52.7294	76.3676	99.5736	70.3822	73.8352	70.9129
Tare + Dry Wt. (2)	12/3/2020	52.7303	76.3864	99.5858	70.3931	73.8463	70.9181
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	72.3%	78.0%	77.0%	86.6%	78.1%
Volatile Solids		-4793663.6%	398.4%	433.4%	318.6%	326.5%	291.1%

Sample Number		456-005	456-006	456-007	456-008	456-009	456-010
Crucible Number		FIRN	27	4	TYLER	19	LEXA
Sample Weight		26.4713	32.3942	32.9289	25.3684	30.6161	30.8681
Tare Weight	Date	49.4148	51.4110	52.6081	50.7331	49.8396	50.4922
Tare + Dry Wt. (1)	12/3/2020	71.6323	76.2305	75.2077	69.4902	65.5651	67.1438
Tare + Dry Wt. (2)	12/3/2020	71.6448	76.2392	75.2164	69.4959	65.5721	67.1522
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		84.0%	76.6%	68.7%	74.0%	51.4%	54.0%
Volatile Solids		322.3%	307.1%	332.7%	370.4%	416.8%	403.1%

% 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:	12/2/2020
Reviewed By:		Date:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010456 Method: SM 2540 G

Run: 705632

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Sample Number		456-011	456-012	456-012DUP	456-013	456-014	456-015
Crucible Number		JOHN	18	7MM	2	GWEN	20
SampleWeight		30.4161	27.2839	28.4010	27.2527	29.2369	31.5889
Tare Weight	Date	49.9595	50.6201	60.9681	51.9251	52.0883	49.9779
Tare + Dry Wt. (1)	12/3/2020	67.0073	66.7130	77.6300	67.7721	68.4434	69.2253
Tare + Dry Wt. (2)	12/3/2020	67.0208	66.7240	77.6406	67.7800	68.4523	69.2338
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		56.1%	59.0%	58.7%	58.2%	56.0%	61.0%
Volatile Solids		392.8%	414.3%	465.7%	427.5%	418.3%	359.5%

Sample Number		456-016	456-017	456-018	456-019	456-020	
Crucible Number		15	SNOW	AUG	NATO	11	
Sample Weight		25.4483	32.5844	35.8506	29.6522	26.4830	
Tare Weight	Date	51.0848	53.1104	75.0770	59.1381	51.5153	
Tare + Dry Wt. (1)	12/3/2020	68.2971	75.2464	100.4550	78.8666	71.5619	
Tare + Dry Wt. (2)	12/3/2020	68.3064	75.2614	100.4670	78.8750	71.5711	
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		67.7%	68.0%	70.8%	66.6%	75.7%	#DIV/0!
Volatile Solids		396.6%	339.8%	395.7%	399.6%	356.9%	#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:	12/2/2020
Reviewed By:		Date:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010456 Method: SM 2540 G

Run: 705632

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	16:30	12/2/2020	8:45	12/3/2020
105	9:50	12/3/2020	11:05	12/3/2020

Analyzed By:	BN	Date Analyzed:	12/2/2020
Reviewed By:		Date Reviewed:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010456 Method: SM 2540 G

Run: 705632

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9967	100.0%	CCV1	9.9987	100.0%	12/2/2020
CCV2	199.9972	100.0%	CCV2	9.9987	100.0%	12/2/2020
CCV3	199.9961	100.0%	CCV3	9.9982	100.0%	12/3/2020
CCV4	199.9963	100.0%	CCV4	9.9981	100.0%	12/3/2020
CCV5	199.9970	100.0%	CCV5	9.9989	100.0%	12/3/2020
CCV6	199.9972	100.0%	CCV6	9.9985	100.0%	12/3/2020
~~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:	12/2/2020
Reviewed By:		Date Reviewed:	12/3/20

Analytical Results Summary

Instrument Name: K-Balance-41 **Analyst:** BNETLING **Analysis Lot:** 705633 **Method/Testcode:** SM 2540 G/TS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
K2010456-021	Solids, Total	N/A		Sediment	75.50 Percent	27.9825 g	75.5 Percent	1					12/2/20 16:45:00	N	IV
K2010456-022	Solids, Total	N/A		Sediment	86.60 Percent	27.1851 g	86.6 Percent	1					12/2/20 16:45:00	Y	IV
K2010456-023	Solids, Total	N/A		Sediment	76.40 Percent	28.6250 g	76.4 Percent	1					12/2/20 16:45:00	N	IV
K2010456-024	Solids, Total	N/A		Sediment	75.20 Percent	32.2768 g	75.2 Percent	1					12/2/20 16:45:00	N	IV
K2010456-025	Solids, Total	N/A		Sediment	75.50 Percent	30.5287 g	75.5 Percent	1					12/2/20 16:45:00	N	IV
KQ2019221-01	Solids, Total	DUP	K2010456-022	Sediment	86.60 Percent	26.1568 g	86.6 Percent	1				<1	12/2/20 16:45:00	N	IV
KQ2019221-02	Solids, Total	MB		Sediment	0.00 Percent	50.0291 g	0.0 Percent	1					12/2/20 16:45:00	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 #.: K2010456 Method: SM 2540 G

Run: 705633

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Sample Number		MB	456-021	456-022	456-022DUP	456-023	456-024
Crucible Number		MURPHY	23	16	CLARKE	9MM	8
SampleWeight		50.0291	27.9825	27.1851	26.1568	28.6250	32.2768
Tare Weight	Date	52.7838	52.9458	53.7632	53.2504	77.5077	49.7253
Tare + Dry Wt. (1)	12/3/2020	52.7791	74.0527	77.2800	75.8851	99.3490	73.9759
Tare + Dry Wt. (2)	12/3/2020	52.7818	74.0721	77.2970	75.9014	99.3635	73.9932
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		0.0%	75.5%	86.6%	86.6%	76.4%	75.2%
Volatile Solids		-2639090.0%	350.6%	328.5%	335.1%	454.6%	304.9%

Sample Number		456-025					
Crucible Number		MEOW					
Sample Weight		30.5287					
Tare Weight	Date	54.8443					
Tare + Dry Wt. (1)	12/3/2020	77.8710					
Tare + Dry Wt. (2)	12/3/2020	77.8881					
Tare + Ash Wt. (1)							
Tare + Ash Wt. (2)							
Total Solids		75.5%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Volatile Solids		338.0%	#DIV/0!	#DIV/0!	#DIV/0!	#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:	12/2/2020
Reviewed By:		Date:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #: K2010456 Method: SM 2540 G

Run: 705633

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

Oven Temp and Times				
Oven Temp	Time In	Date In	Time Out	Date Out
105	16:45	12/2/2020	8:45	12/3/2020
105	9:55	12/3/202	11:05	12/3/2020

Analyzed By:	BN	Date Analyzed:	12/2/2020
Reviewed By:		Date Reviewed:	12/3/20

ALS Group USA, Corp.
dba ALS Environmental

Work Order #.: K2010456 Method: SM 2540 G

Run: 705633

Analysis: Total Solids / Volatile Solids Matrix: Soil/Solids

CCV Verification SN:1000122198, 6040						
	200.0000g	≤(+/- 0.5%)		10.0000g	≤(+/- 0.5%)	Date
CCV1	199.9967	100.0%	CCV1	9.9987	100.0%	12/2/2020
CCV2	199.9972	100.0%	CCV2	9.9987	100.0%	12/2/2020
CCV3	199.9961	100.0%	CCV3	9.9982	100.0%	12/3/2020
CCV4	199.9963	100.0%	CCV4	9.9981	100.0%	12/3/2020
CCV5	199.9970	100.0%	CCV5	9.9989	100.0%	12/3/2020
CCV6	199.9972	100.0%	CCV6	9.9985	100.0%	12/3/2020
~~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:	12/2/2020
Reviewed By:	JC	Date Reviewed:	12/3/20

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#: 369767
Team: Semivoa GC/BGREER
Number of Copies to make: 2

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/13/20 11:38

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010456-020	USMPDI-057SC-B-04-06-201109	.01	8151A/HERB		Sediment	30.055g	50.00mL	JGRIMES K-Balance-49
2	K2010456-021	USMPDI-057SC-B-06-08-201109	.01	8151A/HERB		Sediment	30.076g	50.00mL	JGRIMES K-Balance-49
3	K2010456-023	USMPDI-057SC-B-10-12-201109	.01	8151A/HERB		Sediment	30.044g	50.00mL	JGRIMES K-Balance-49
4	K2010456-024	USMPDI-057SC-B-12-13.5-201109	.01	8151A/HERB		Sediment	30.238g	50.00mL	JGRIMES K-Balance-49
5	K2010456-025	USMPDI-1057SC-B-06-08-201109	.01	8151A/HERB		Sediment	30.297g	50.00mL	JGRIMES K-Balance-49
6	K2010495-001	USMPDI-003SC-B-00-02-201110	.01	8151A/HERB		Sediment	30.032g	50.00mL	JGRIMES K-Balance-49
7	K2010495-002	USMPDI-003SC-B-02-04-201110	.01	8151A/HERB		Sediment	30.035g	50.00mL	JGRIMES K-Balance-49
8	K2010495-003	USMPDI-003SC-B-04-06-201110	.01	8151A/HERB		Sediment	30.139g	50.00mL	JGRIMES K-Balance-49
9	K2010495-004	USMPDI-003SC-B-06-08-201110	.01	8151A/HERB		Sediment	30.090g	50.00mL	JGRIMES K-Balance-49
10	K2010495-005	USMPDI-006SC-D-00-02-201110	.01	8151A/HERB		Sediment	30.258g	50.00mL	JGRIMES K-Balance-49
11	K2010495-006	USMPDI-006SC-D-02-04-201110	.01	8151A/HERB		Sediment	30.260g	50.00mL	JGRIMES K-Balance-49
12	K2010495-007	USMPDI-006SC-D-04-06-201110	.01	8151A/HERB		Sediment	30.024g	50.00mL	JGRIMES K-Balance-49
13	K2010495-008	USMPDI-006SC-D-06-08-201110	.01	8151A/HERB		Sediment	30.195g	50.00mL	JGRIMES K-Balance-49
14	K2010495-009	USMPDI-006SC-D-08-10-201110	.01	8151A/HERB		Sediment	30.150g	50.00mL	JGRIMES K-Balance-49
15	K2010495-010	USMPDI-006SC-D-10-12-201110	.01	8151A/HERB		Sediment	30.083g	50.00mL	JGRIMES K-Balance-49
16	K2010495-011	USMPDI-006SC-D-12-14-201110	.02	8151A/HERB		Sediment	30.008g	50.00mL	JGRIMES K-Balance-49
17	K2010495-012	USMPDI-1006SC-D-10-12-201110	.01	8151A/HERB		Sediment	30.132g	50.00mL	JGRIMES K-Balance-49
18	KQ2017965-01	K2010495-011 MS	.02	8151A/HERB		Solid	30.092g	50.00mL	JGRIMES K-Balance-49
19	KQ2017965-02	K2010495-011 DMS	.02	8151A/HERB		Solid	30.054g	50.00mL	JGRIMES K-Balance-49
20	KQ2017965-03	LCS		8151A/HERB		Solid	30.00g	50.00mL	
21	KQ2017965-04	MB		8151A/HERB		Solid	30.2970g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 213982 Logbook Ref: Penta02-15M Expires On: 05/22/2021

K2010456-020	1,000.00µL	K2010456-021	1,000.00µL	K2010456-023	1,000.00µL	K2010456-024	1,000.00µL	K2010456-025	1,000.00µL	K2010495-001	1,000.00µL
K2010495-002	1,000.00µL	K2010495-003	1,000.00µL	K2010495-004	1,000.00µL	K2010495-005	1,000.00µL	K2010495-006	1,000.00µL	K2010495-007	1,000.00µL
K2010495-008	1,000.00µL	K2010495-009	1,000.00µL	K2010495-010	1,000.00µL	K2010495-011	1,000.00µL	K2010495-012	1,000.00µL	KQ2017965-01	1,000.00µL
KQ2017965-02	1,000.00µL	KQ2017965-03	1,000.00µL	KQ2017965-04	1,000.00µL						

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 213989 Logbook Ref: penta02-16B Expires On: 05/22/2021

KQ2017965-01	1,000.00µL	KQ2017965-02	1,000.00µL	KQ2017965-03	1,000.00µL

Preparation Information Benchsheet

Prep Run#: 369767
Team: Semivoa GC/BGREER

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/13/20 11:38

Preparation Steps

Step:	Weigh	Step:	Extraction	Step:	Derivitization	Step:	Final Volume
Started:	11/13/20 11:38	Started:	11/24/20 15:05	Started:	11/30/20 09:25	Started:	11/30/20 09:55
Finished:	11/24/20 17:31	Finished:	11/24/20 15:35	Finished:	11/30/20 09:55	Finished:	11/30/20 11:45
By:	BGREER	By:	BGREER	By:	TNORRIS	By:	TNORRIS
Comments		Comments		Comments		Comments	

Comments: Hifflepuff 6H1-16 I-1

Reviewed By: ____________ Date: ____________

Chain of Custody

Relinquished By: TNorris Date: 11/30/20

Received By: ____________ Date: ____________

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 369679
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/12/20 10:09

#	Lab Code	Client ID	B#	Method /Test	pH	Matrix	Amt. Ext.	Final Vol	Sample Description
1	K2010456-001	USMPDI-012SC-D-00-02-201109	.01	8151A/HERB		Sediment	30.008g	50.00mL	JGRIMES K-Balance-49
2	K2010456-002	USMPDI-012SC-D-02-04-201109	.01	8151A/HERB		Sediment	30.012g	50.00mL	JGRIMES K-Balance-49
3	K2010456-003	USMPDI-012SC-D-04-06-201109	.01	8151A/HERB		Sediment	30.030g	50.00mL	JGRIMES K-Balance-49
4	K2010456-004	USMPDI-012SC-D-06-08-201109	.01	8151A/HERB		Sediment	30.003g	50.00mL	JGRIMES K-Balance-49
5	K2010456-005	USMPDI-012SC-D-08-10-201109	.01	8151A/HERB		Sediment	30.103g	50.00mL	JGRIMES K-Balance-49
6	K2010456-006	USMPDI-012SC-D-10-12-201109	.01	8151A/HERB		Sediment	30.010g	50.00mL	JGRIMES K-Balance-49
7	K2010456-007	USMPDI-012SC-D-12-14-201109	.01	8151A/HERB		Sediment	30.072g	50.00mL	JGRIMES K-Balance-49
8	K2010456-008	USMPDI-012SC-D-14-15.9-201109	.01	8151A/HERB		Sediment	30.076g	50.00mL	JGRIMES K-Balance-49
9	K2010456-009	USMPDI-014SC-B-00-02-201109	.01	8151A/HERB		Sediment	30.097g	50.00mL	JGRIMES K-Balance-49
10	K2010456-010	USMPDI-014SC-B-02-04-201109	.01	8151A/HERB		Sediment	30.066g	50.00mL	JGRIMES K-Balance-49
11	K2010456-011	USMPDI-014SC-B-04-06-201109	.01	8151A/HERB		Sediment	30.090g	50.00mL	JGRIMES K-Balance-49
12	K2010456-012	USMPDI-014SC-B-06-08-201109	.01	8151A/HERB		Sediment	30.080g	50.00mL	JGRIMES K-Balance-49
13	K2010456-013	USMPDI-014SC-B-08-10-201109	.01	8151A/HERB		Sediment	30.008g	50.00mL	JGRIMES K-Balance-49
14	K2010456-014	USMPDI-014SC-B-10-12-201109	.01	8151A/HERB		Sediment	30.141g	50.00mL	JGRIMES K-Balance-49
15	K2010456-015	USMPDI-014SC-B-12-14-201109	.01	8151A/HERB		Sediment	30.110g	50.00mL	JGRIMES K-Balance-49
16	K2010456-016	USMPDI-014SC-B-14-16-201109	.01	8151A/HERB		Sediment	30.142g	50.00mL	JGRIMES K-Balance-49
17	K2010456-017	USMPDI-014SC-B-16-17.3-201109	.01	8151A/HERB		Sediment	30.233g	50.00mL	JGRIMES K-Balance-49
18	K2010456-018	USMPDI-057SC-B-00-02-201109	.01	8151A/HERB		Sediment	30.104g	50.00mL	JGRIMES K-Balance-49
19	K2010456-019	USMPDI-057SC-B-02-04-201109	.01	8151A/HERB		Sediment	30.096g	50.00mL	JGRIMES K-Balance-49
20	K2010456-022	USMPDI-057SC-B-08-10-201109	.01	8151A/HERB		Sediment	30.198g	50.00mL	JGRIMES K-Balance-49
21	KQ2018489-03	K2010456-022 MS	.01	8151A/HERB		Solid	30.095g	50.00mL	JGRIMES K-Balance-49
22	KQ2018489-04	K2010456-022 DMS	.01	8151A/HERB		Solid	30.017g	50.00mL	JGRIMES K-Balance-49
23	KQ2018489-01	LCS		8151A/HERB		Solid	30.00g	50.00mL	
24	KQ2018489-02	MB		8151A/HERB		Solid	30.2330g	50.00mL	

Spiking Solutions

Name: 8151A 5ppm Herbicide surrogate Inventory ID 213982 Logbook Ref: Penta02-15M Expires On: 05/22/2021

K2010456-001	1,000.00µL	K2010456-002	1,000.00µL	K2010456-003	1,000.00µL	K2010456-004	1,000.00µL	K2010456-005	1,000.00µL	K2010456-006	1,000.00µL
K2010456-007	1,000.00µL	K2010456-008	1,000.00µL	K2010456-009	1,000.00µL	K2010456-010	1,000.00µL	K2010456-011	1,000.00µL	K2010456-012	1,000.00µL
K2010456-013	1,000.00µL	K2010456-014	1,000.00µL	K2010456-015	1,000.00µL	K2010456-016	1,000.00µL	K2010456-017	1,000.00µL	K2010456-018	1,000.00µL
K2010456-019	1,000.00µL	K2010456-022	1,000.00µL	KQ2018489-01	1,000.00µL	KQ2018489-02	1,000.00µL	KQ2018489-03	1,000.00µL	KQ2018489-04	1,000.00µL

Name: 8151A 5-500ppm Herbicides matrix spike Inventory ID 213989 Logbook Ref: penta02-16B Expires On: 05/22/2021

Preparation Information Benchsheet

Prep Run#: 369679
Team: Semivoa GC/BGREER
KQ2018489-01 1,000.00µL KQ2018489-03 1,000.00µL KQ2018489-04 1,000.00µL

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Prepped
Prep Date/Time: 11/12/20 10:09

Preparation Steps

Step:	Weigh
Started:	11/12/20 10:09
Finished:	11/24/20 17:31
By:	BGREER
Comments	

Step:	Extraction
Started:	11/24/20 15:40
Finished:	11/24/20 16:10
By:	BGREER
Comments	

Step:	Derivitization
Started:	11/30/20 08:25
Finished:	11/30/20 08:55
By:	TNORRIS
Comments	

Step:	Final Volume
Started:	11/30/20 08:55
Finished:	11/30/20 12:00
By:	TNORRIS
Comments	

Comments: _____

Reviewed By: _____ Date: 12-3-20

Chain of Custody

Relinquished By: Morris Date: 11/30/20

Received By: _____ Date: 11-30-20

Extracts Examined
Yes No

Preparation Information Benchsheet

Prep Run#: 369679
Team: Semivoa GC/BGREER
Number of Copies to make: 1

Prep WorkFlow: OrgHerbS(14)
Prep Method: Method

Status: Draft
Prep Date/Time: 11/12/20 10:09 AM

#	Lab Code	Client ID	B#	√	Method /Test	Matrix	Amt. Ext. g	pH	Int. Vol mL	Final Vol mL	Surr Amt µl	Spike Amt µl
1	**K2010456-001**	USMPDI-012SC-D-00-02-201109	.01	✓	8151A / HERB	Sediment	*	N/A		50	1000	⊥
2	**K2010456-002**	USMPDI-012SC-D-02-04-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
3	**K2010456-003**	USMPDI-012SC-D-04-06-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
4	**K2010456-004**	USMPDI-012SC-D-06-08-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
5	**K2010456-005**	USMPDI-012SC-D-08-10-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
6	**K2010456-006**	USMPDI-012SC-D-10-12-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
7	**K2010456-007**	USMPDI-012SC-D-12-14-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
8	**K2010456-008**	USMPDI-012SC-D-14-15.9-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
9	**K2010456-009**	USMPDI-014SC-B-00-02-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
10	**K2010456-010**	USMPDI-014SC-B-02-04-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
11	**K2010456-011**	USMPDI-014SC-B-04-06-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
12	**K2010456-012**	USMPDI-014SC-B-06-08-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
13	**K2010456-013**	USMPDI-014SC-B-08-10-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
14	**K2010456-014**	USMPDI-014SC-B-10-12-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
15	**K2010456-015**	USMPDI-014SC-B-12-14-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
16	**K2010456-016**	USMPDI-014SC-B-14-16-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
17	**K2010456-017**	USMPDI-014SC-B-16-17.3-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
18	**K2010456-018**	USMPDI-057SC-B-00-02-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
19	**K2010456-019**	USMPDI-057SC-B-02-04-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	1
20	**K2010456-022**	USMPDI-057SC-B-08-10-201109	.01	✓	8151A / HERB	Sediment	*	1		50	1	⊥
21	**KQ2018489-03**	K2010456-022 MS	.01	✓	8151A / HERB	Solid	*	1		50	1	1000
22	**KQ2018489-04**	K2010456-022 DMS	.01	✓	8151A / HERB	Solid	*	1		50	1	1
23	**KQ2018489-01**	LCS	—	—	8151A / HERB	Solid	30.000	1		50	1	⊥
24	**KQ2018489-02**	MB	—	—	8151A / HERB	Solid	30.233	⊥		50	⊥	—

Comments: * See preprep sheet

Surrogate ID: Penta02-15M 5ppm Ace xp: 5/22/21 1000µl

Spike ID: Penta02-16B 5-500ppm Ace xp: 5/22/21

Witnessed By: [signature]

Analyst: BGreer

Assisted By: [signature]

Pre-Prep Information Benchsheet

Prep Run #: 369679 **Container Lot No:** 090720-1TW **Prep Due Date:** Nov-17-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010456-001	.01	HERB : 8151A/	30.008g		JGRIMES K-Balance-49
2	K2010456-002	.01	HERB : 8151A/	30.012g		JGRIMES K-Balance-49
3	K2010456-003	.01	HERB : 8151A/	30.030g		JGRIMES K-Balance-49
4	K2010456-004	.01	HERB : 8151A/	30.003g		JGRIMES K-Balance-49
5	K2010456-005	.01	HERB : 8151A/	30.103g		JGRIMES K-Balance-49
6	K2010456-006	.01	HERB : 8151A/	30.010g		JGRIMES K-Balance-49
7	K2010456-007	.01	HERB : 8151A/	30.072g		JGRIMES K-Balance-49
8	K2010456-008	.01	HERB : 8151A/	30.076g		JGRIMES K-Balance-49
9	K2010456-009	.01	HERB : 8151A/	30.097g		JGRIMES K-Balance-49
10	K2010456-010	.01	HERB : 8151A/	30.066g		JGRIMES K-Balance-49
11	K2010456-011	.01	HERB : 8151A/	30.090g		JGRIMES K-Balance-49
12	K2010456-012	.01	HERB : 8151A/	30.080g		JGRIMES K-Balance-49
13	K2010456-013	.01	HERB : 8151A/	30.008g		JGRIMES K-Balance-49
14	K2010456-014	.01	HERB : 8151A/	30.141g		JGRIMES K-Balance-49
15	K2010456-015	.01	HERB : 8151A/	30.110g		JGRIMES K-Balance-49
16	K2010456-016	.01	HERB : 8151A/	30.142g		JGRIMES K-Balance-49
17	K2010456-017	.01	HERB : 8151A/	30.233g		JGRIMES K-Balance-49
18	K2010456-018	.01	HERB : 8151A/	30.104g		JGRIMES K-Balance-49
19	K2010456-019	.01	HERB : 8151A/	30.096g		JGRIMES K-Balance-49
☐ 20	~~K2010456-020~~	.01	HERB : 8151A/	30.055g		JGRIMES K-Balance-49

☐ Added to 369767 BG 11/21/20

Delivered to freezer

11-12-20

Relinquished By: JG	Date/Time: 10:13	Received By:	Date/Time:

~~369767~~

Pre-Prep Information Benchsheet

Prep Run #: ~~369680~~

Container Lot No: 090720-1TW

Prep Due Date: Nov-17-2020

#	Lab Code	Bottle	Test Name	Weight	Sample Comments	Test Comments
1	K2010456-021	.01	HERB : 8151A/	30.076g		JGRIMES K-Balance-49
Δ 2	~~K2010456-022~~	.01	HERB : 8151A/	30.198g		JGRIMES K-Balance-49
Δ 3	~~K2010456-022 MS~~ KQ2017848-01	.01	HERB : 8151A/	30.095g		JGRIMES K-Balance-49
Δ 4	~~K2010456-022 DMS~~ KQ2017848-02	.01	HERB : 8151A/	30.017g		JGRIMES K-Balance-49
5	K2010456-023	.01	HERB : 8151A/	30.044g		JGRIMES K-Balance-49
6	K2010456-024	.01	HERB : 8151A/	30.238g		JGRIMES K-Balance-49
7	K2010456-025	.01	HERB : 8151A/	30.297g		JGRIMES K-Balance-49

Δ Added to 369679 BG 11/21/20

Delivered to freezer

11-12-20

Relinquished By: JG	Date/Time: 10:13	Received By:	Date/Time:

Additional Prep Information for EPA Method 8151A

Herbicides in Soil

Service Request # K2010456 **Work Group #** KQ2018489

Acidified Sulfate Lot # DZ03-870 Matrix Sand Lot # 012418

Ethyl Ether Lot # DZ487 Hydrochloric Acid Lot # S8242

Wrist Action Shaker Start (time/date/initial): 15:40 11/24/20 GL/BG

Wrist Action Shaker Stop (time/date/initial): 16:10 11/24/20 BG/~~BG~~ GL

N-Evap (time/date/initial): 0820 11/25/20 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): 0930 11/25/20 BG 37% KOH Lot # DZ03-80M

Saponification Stop (time/date/initial): 1245 11/25/20 BG

Extraction Start (time/date/initial): 1320 11/25/20 BG Sulfuric Acid Lot # DZ0397H

Extraction Stop (time/date/initial): 1405 11/25/20 BG

Derivatization Start (time/date/initial): 0825 11/30/20 TW Diazomethane Lot # DZ03-45

Derivatization Stop (time/date/initial): 0855 11/30/20 TW

Pipette (5 mL) Lot # 07420677

Solvent Exchange to Iso-Octane (time/date/initial): 0855 11/30/20 TW

Iso-Octane Lot # DY719-45 N-Evap Thermometer ID: X-SVM-010

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

Pipette (1 mL) Lot # 07720674

Vial: red Vial Storage: ______

Archive Storage: SR 11 ox

Additional Comments: completed 1200 11/30/20 TW

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

R:\Extractions\Active Benchsheets\8151\8151_Soil_Herbicides.doc Reviewed by: Cindy Williams 2/25/20 SOP: SOC-8151 Rev. 18

DILUTION LOG

LAB ID.	ALIQUOT	FINAL VOLUME	DILUTION FACTOR	DATE	By:	Solvent Lot #	COMMENTS / Ext. Date
K2010456-13	200ul	1mL	5X	11-30-20	UA	Iso-octane	Bed matrix
-14	↓	↓	↓	↓	↓	↓	↓
-15	↓	↓	↓	↓	↓	↓	↓
-19	↓	↓	↓	↓	↓	↓	↓

R:\SVG\FORMS\DILUTION LOG.DOC

UA
11-30-20

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010046.D\
Lab ID: K2010456-001
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 10:30:00
Batch ID: 705654
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: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010046.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 10:30:00	**Vial:**	28
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-001	**Raw Units:**	ppb

Bottle ID:	K2010456-001.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1079334	4042179	59.315	95.565	59	96	59	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 -0.01	10.12 -0.02	8529	22351	0.091	0.110	0.21U	0.25U	3.4 U	Y
2,4-D	9.33 +0.01	9.03 -0.04	5552	54381	0.261	1.062	0.60U	2.4U	11 U	Y

Prep Amount:	30.008 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	72.30

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:31:56 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...	7.980	7.810	1079334	4042179	59.315m	95.565 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.327	9.027	5552	54381	0.261m	1.062 #
8)	m	2,4,5-TP ...	10.247	10.117	8529	22351	0.091	0.110m
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

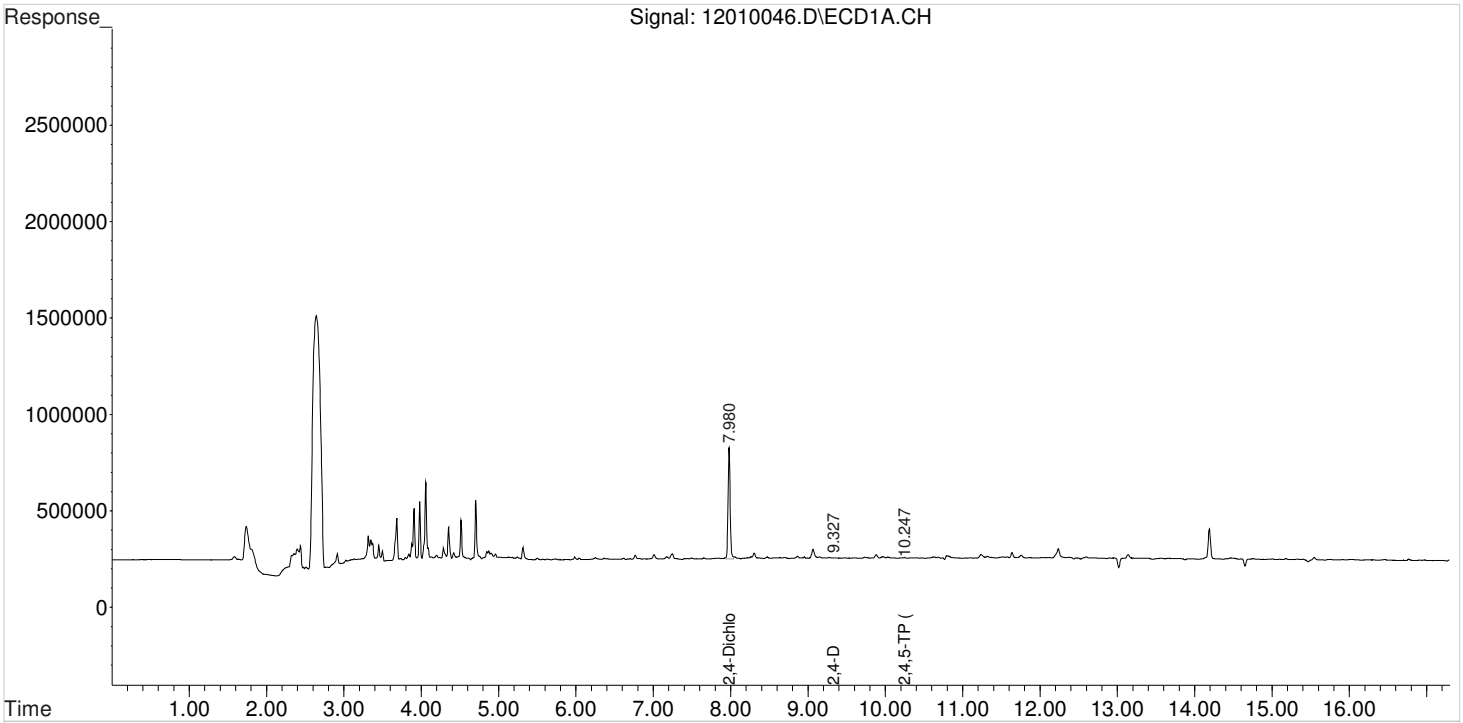
Quantitation Report (QT Reviewed)

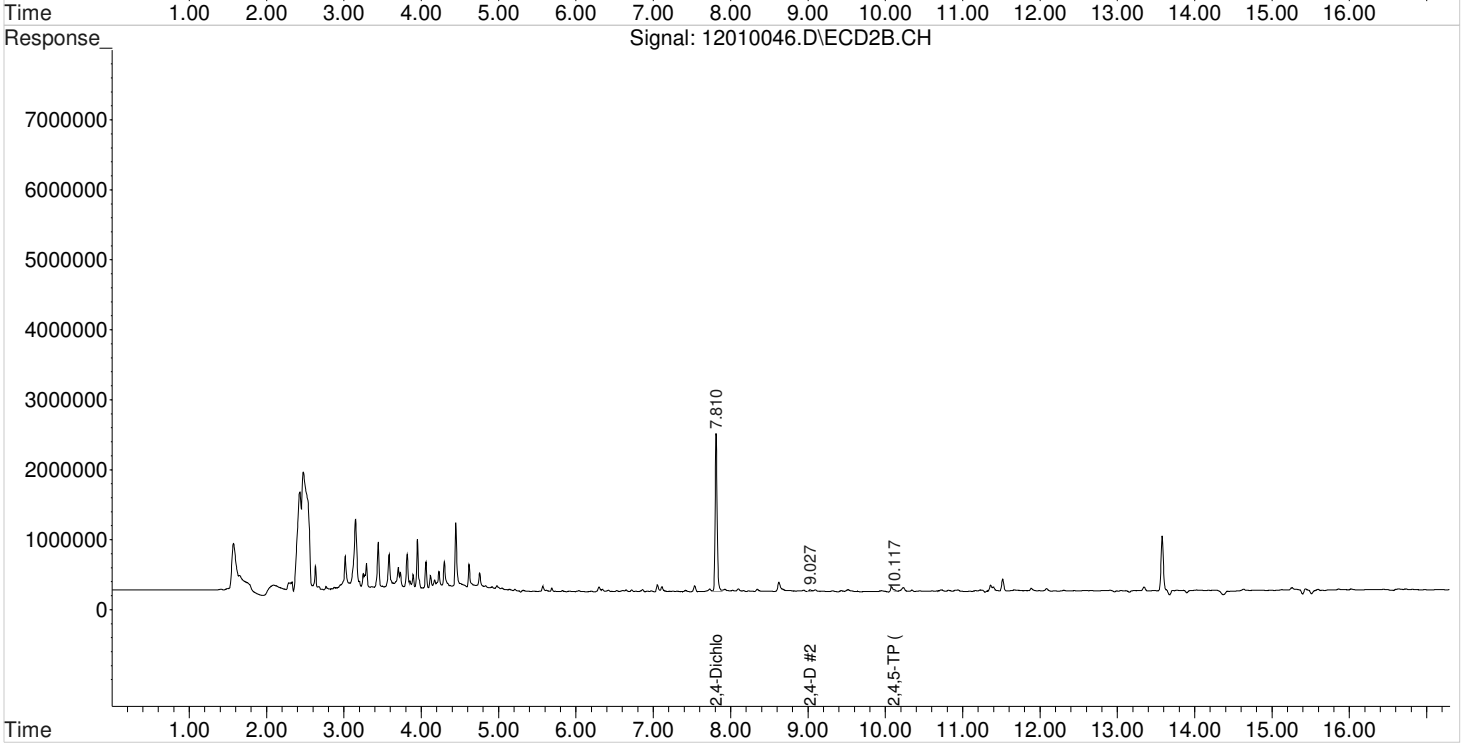
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:31:56 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





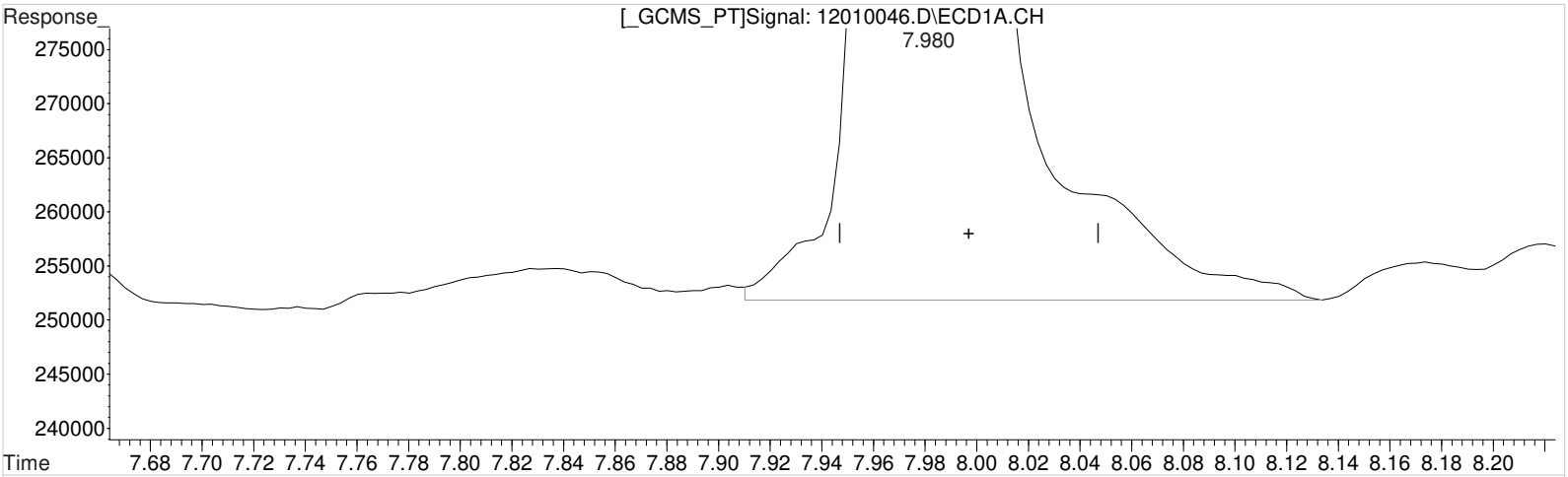
Quantitation Report (Qedit)

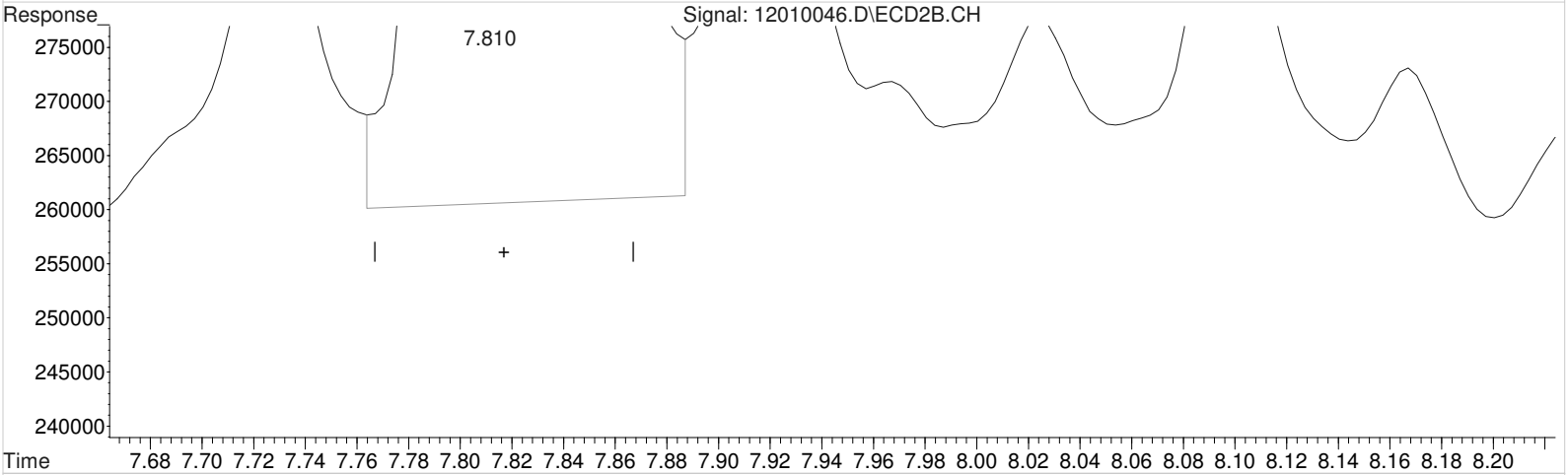
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:23 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





QEdit

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

7.980min 60.955 ppb

response 1109175

Manual Integration:

Before

12/02/20

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

7.810min 95.565 ppb

response 4042179

(+) = Expected Retention Time

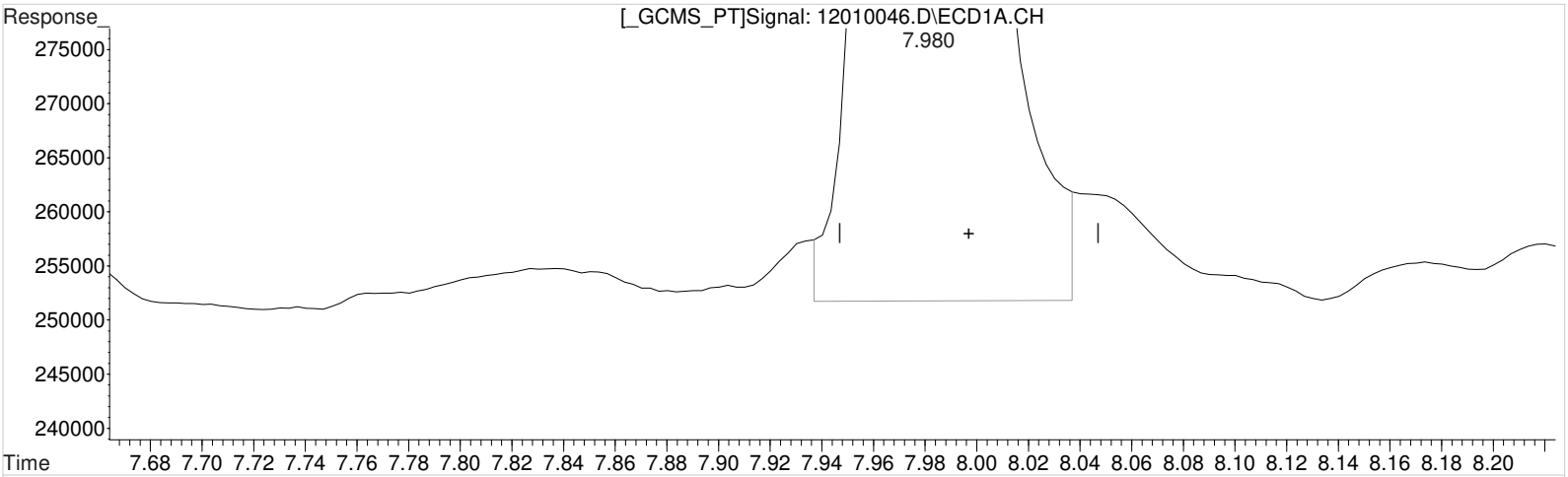
Quantitation Report (Qedit)

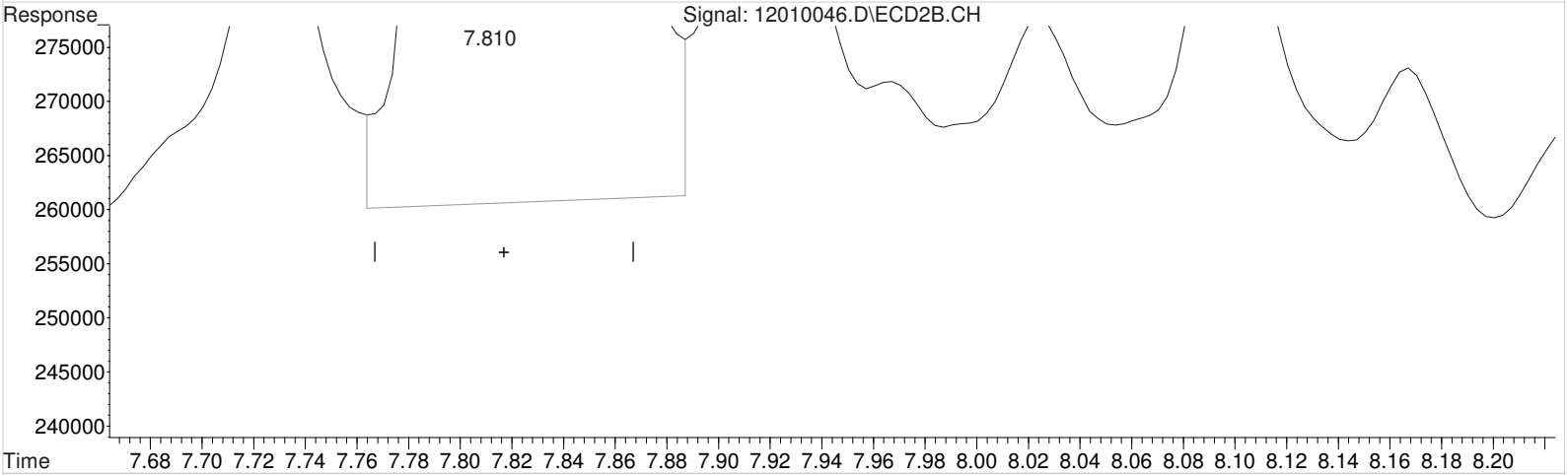
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:23 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





QEdit

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

7.980min 59.315 ppb m

response 1079334

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 95.565 ppb

response 4042179

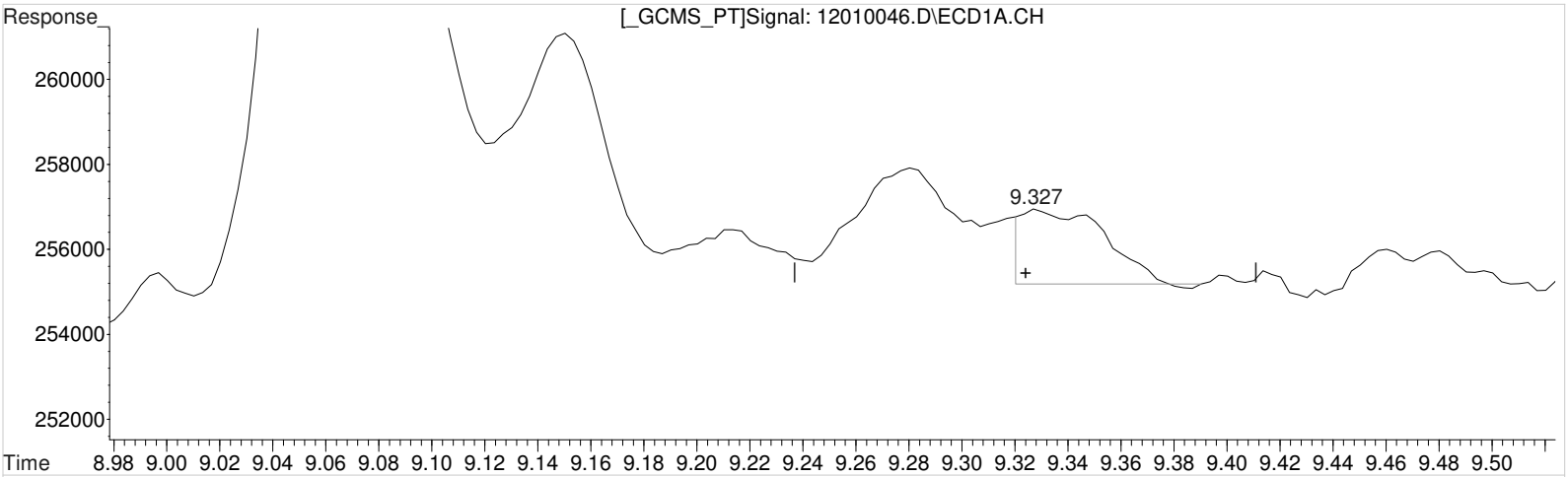
(+) = Expected Retention Time

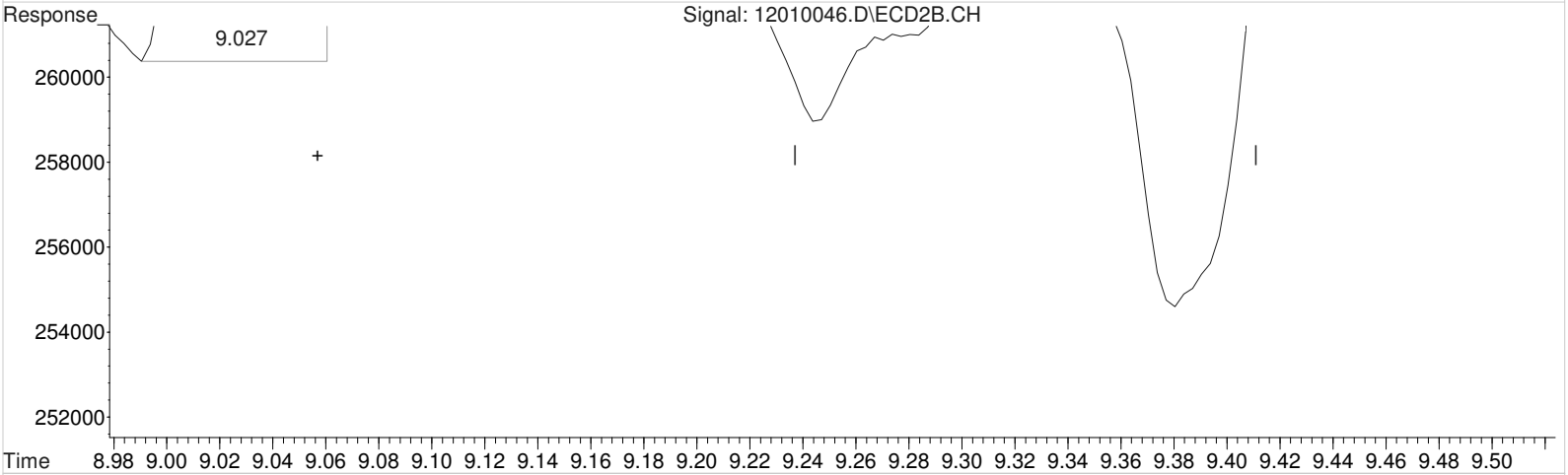
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:23 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





QEdit

(7) 2,4-D (m)

9.327min 0.175 ppb

response 3716

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.027min 1.062 ppb

response 54381

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:23 2020
Quant Results File: 102120_8151.RES

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Quant Title : 103118_8151.m MJ215 CAL_KC1800
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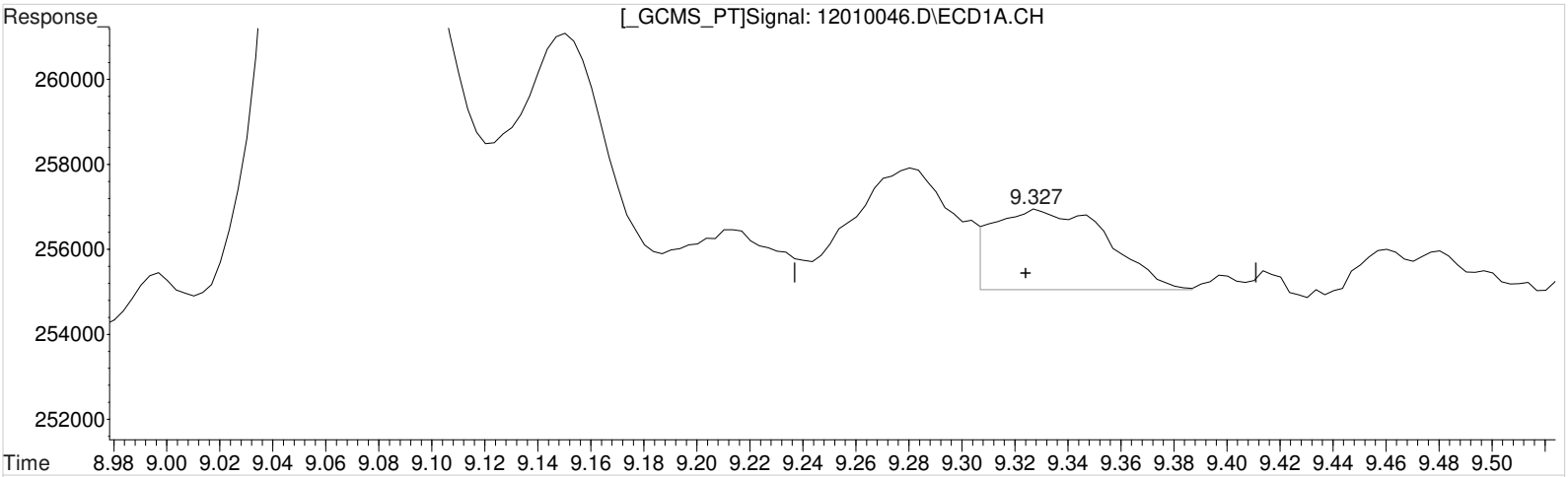
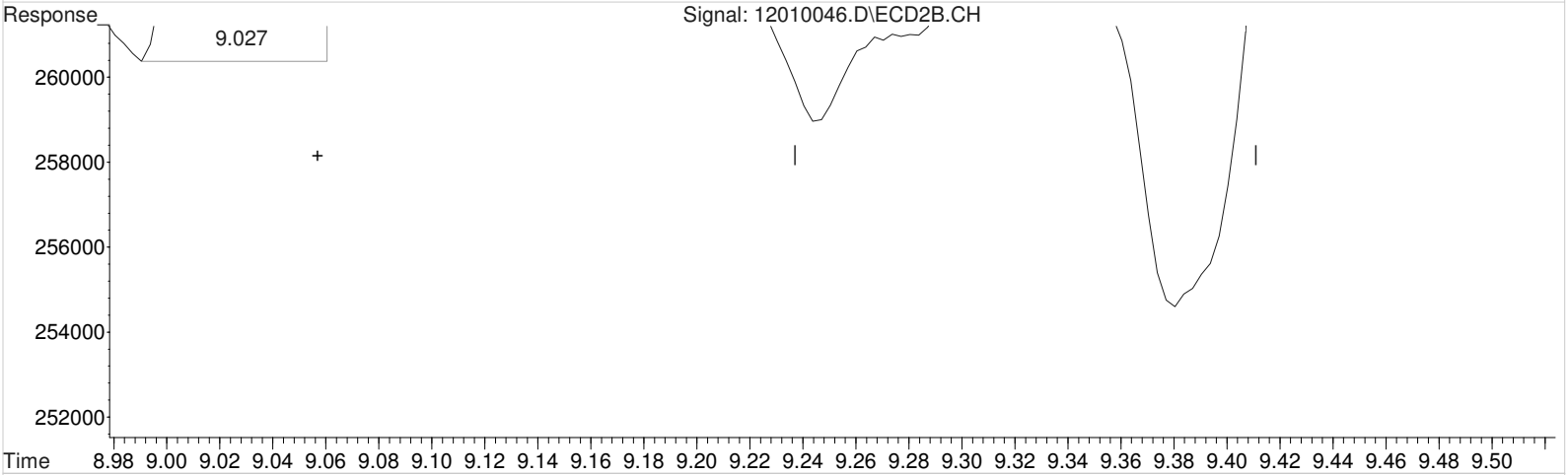
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(7) 2,4-D (m)

9.327min 0.261 ppb m

response 5552

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.027min 1.062 ppb

response 54381

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
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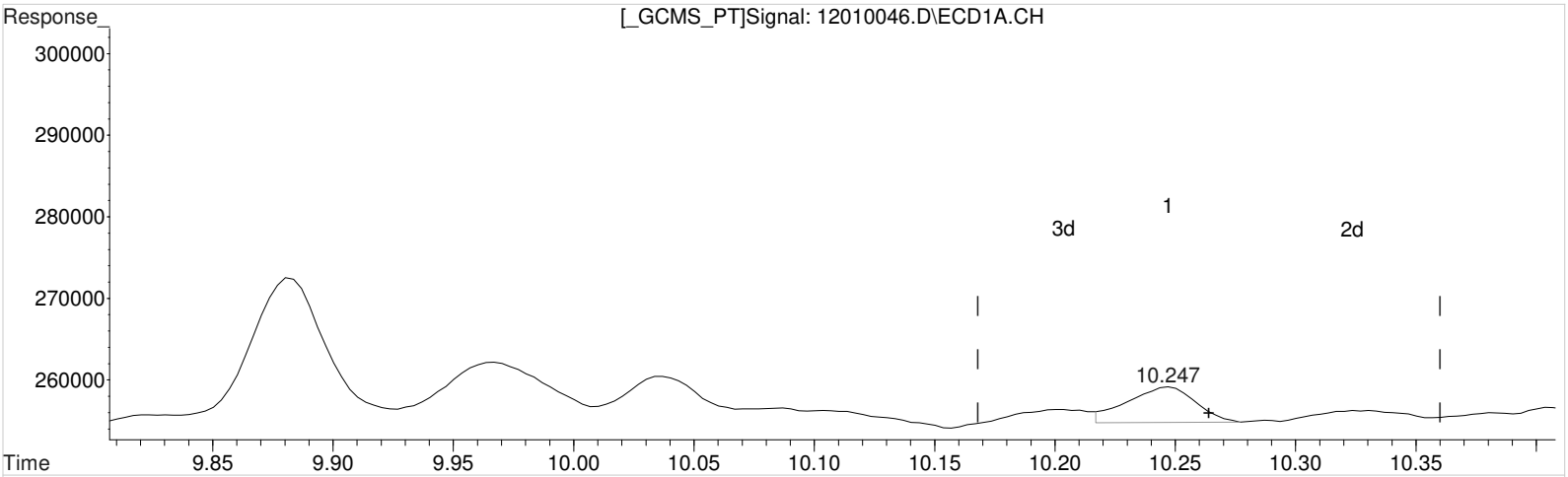
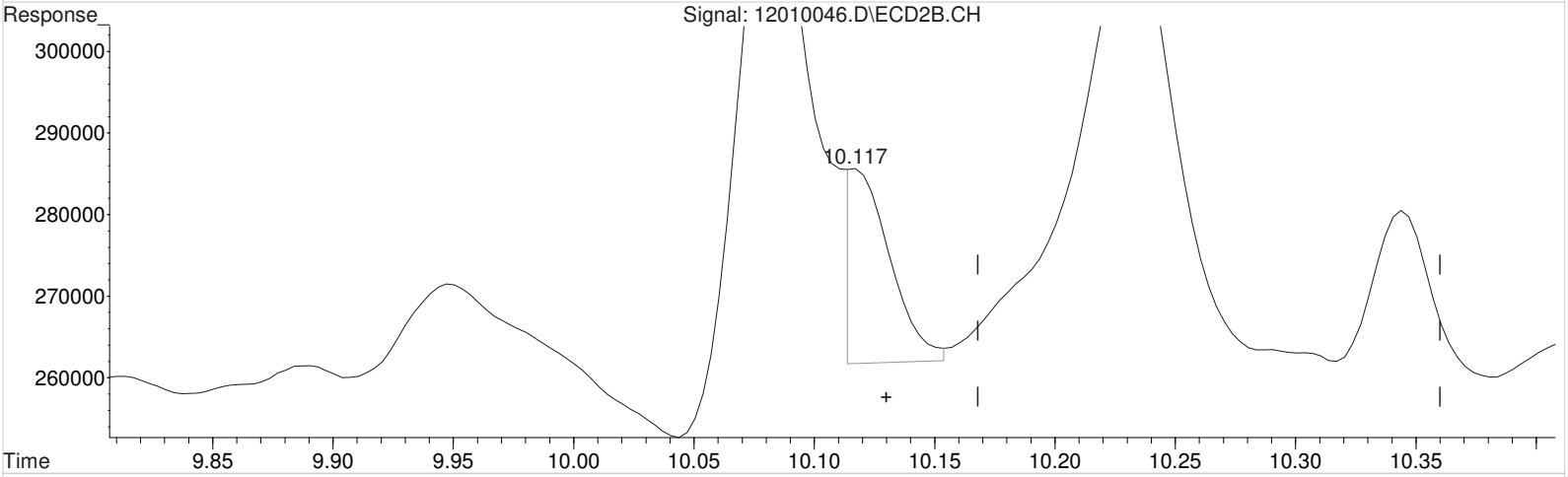
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.247min 0.091 ppb

response 8529

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.117min 0.129 ppb

response 26124

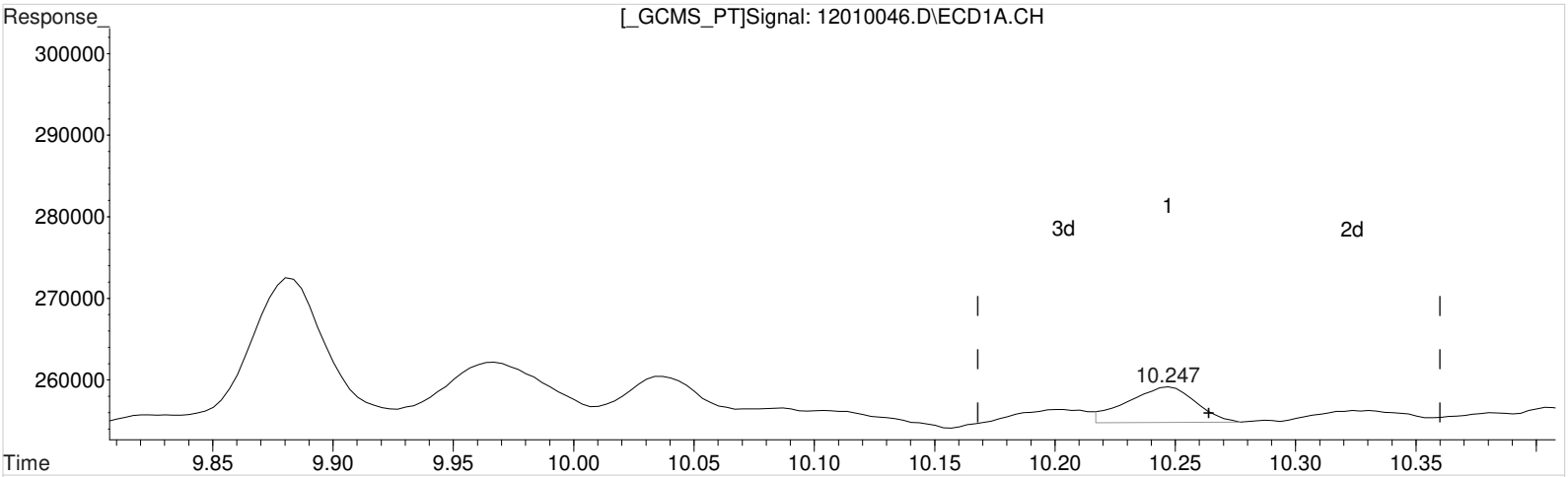
(+) = Expected Retention Time

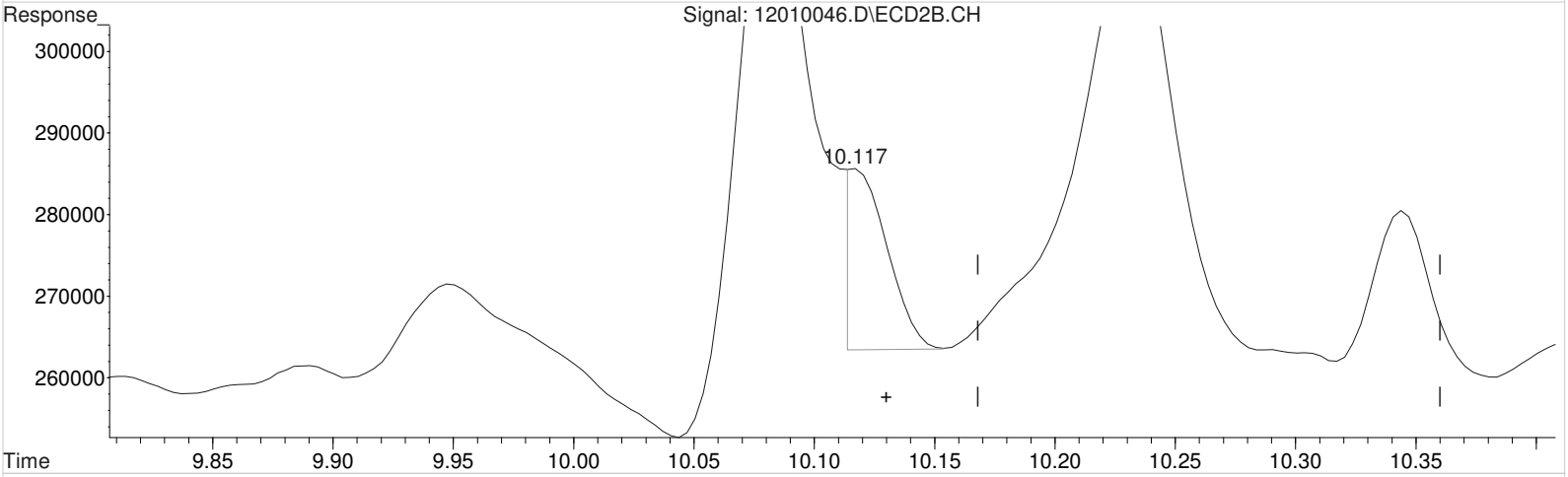
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010046.D Vial: 53
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:30 am Operator: UA
Sample : K2010456-001 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:23 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.247min 0.091 ppb

response 8529

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.117min 0.110 ppb m

response 22351

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010047.D\
Lab ID: K2010456-002
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 10:53:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010047.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 10:53:00	**Vial:**	29
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-002	**Raw Units:**	ppb

Bottle ID:	K2010456-002.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1194851	4563077	65.663	107.880	66	108	66	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 -0.01	10.13 -0.01	7169	17310	0.077	0.085	0.16U	0.18U	3.1 U	Y
2,4-D	9.29 -0.03	9.04 -0.03	15473	60340	0.728	1.179	1.6U	2.5U	9.9 U	Y

Prep Amount:	30.012 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.00

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:37:16 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...	7.985	7.815	1194851	4563077	65.663m	107.880m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.288	9.035	15473	60340	0.728m	1.179 #
8)	m	2,4,5-TP ...	10.255	10.125	7169	17310	0.077	0.085m
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

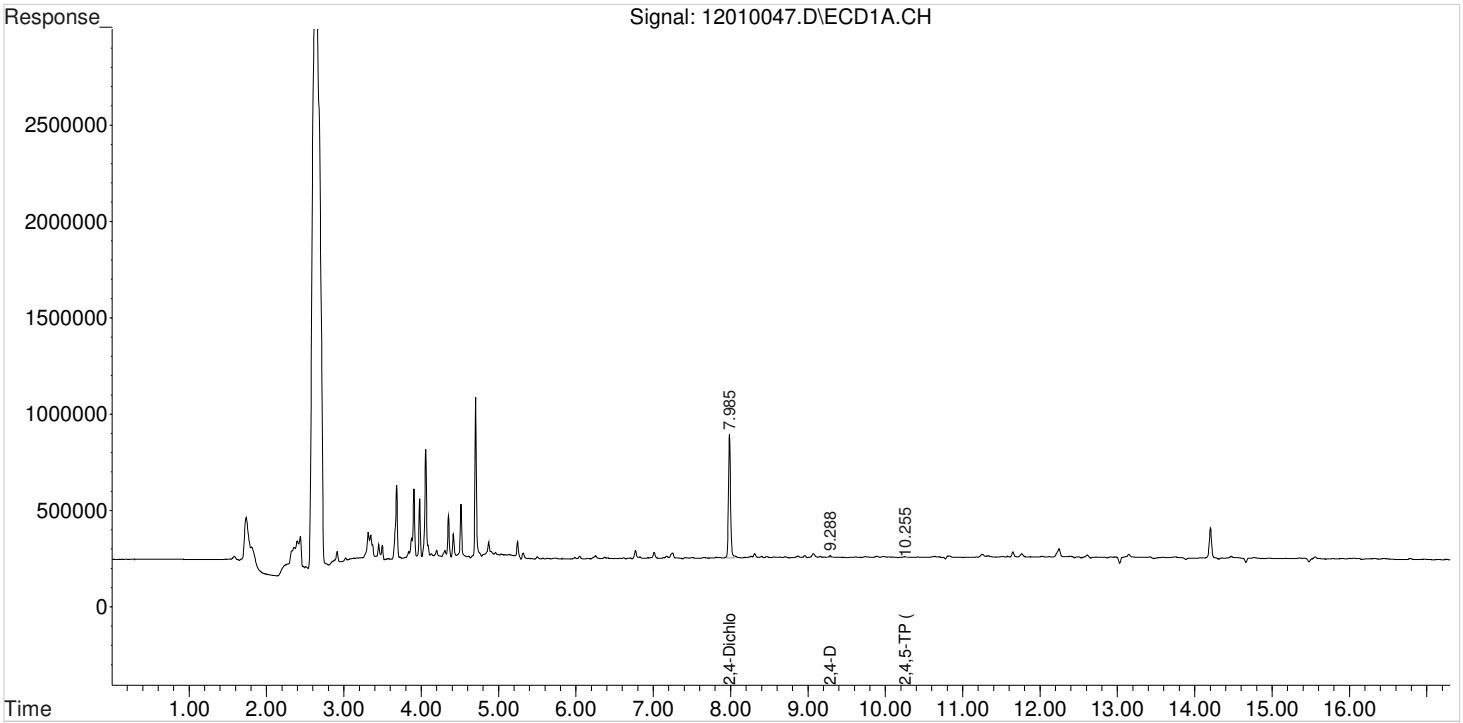
Quantitation Report (QT Reviewed)

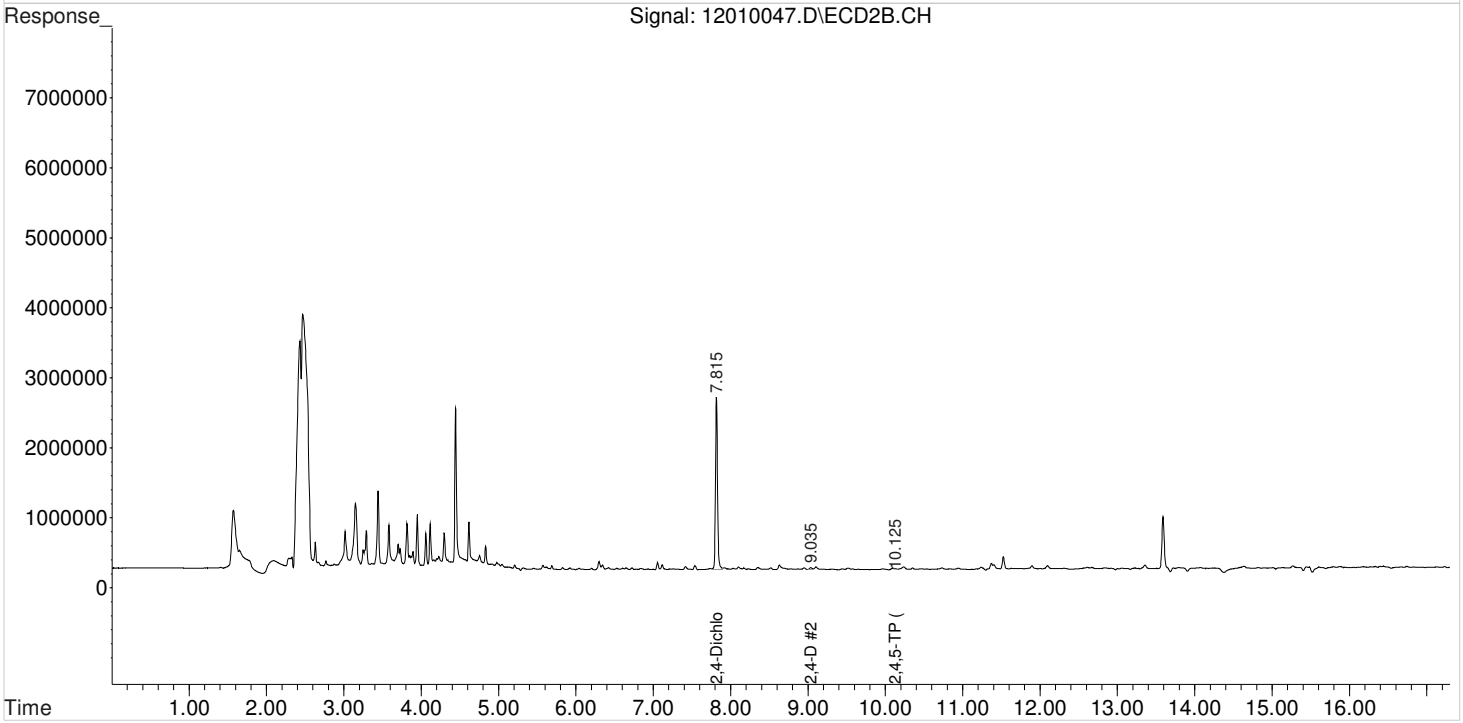
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:37:16 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



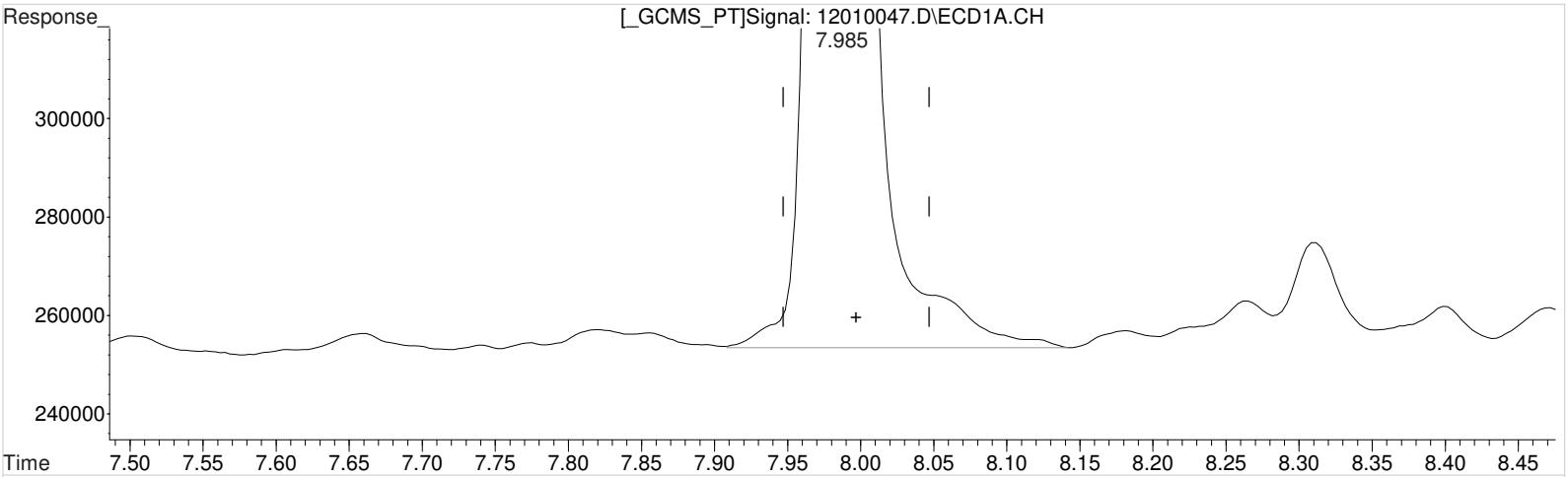


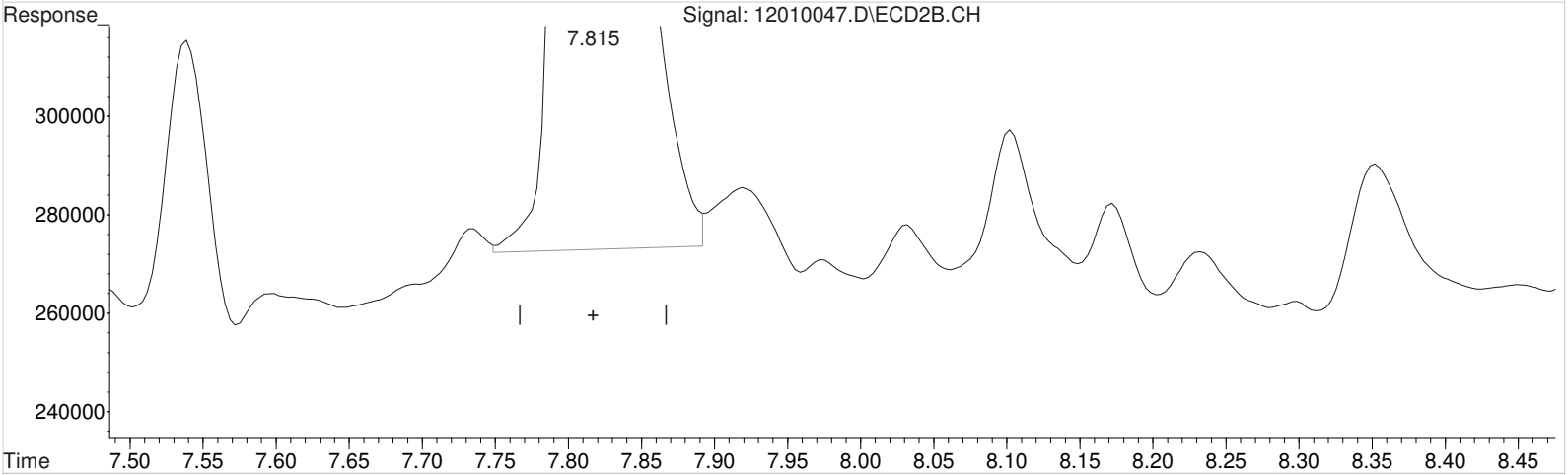
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

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

7.985min 67.362 ppb

response 1225761

Manual Integration:

Before

12/02/20

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

7.815min 105.488 ppb

response 4461913

(+) = Expected Retention Time

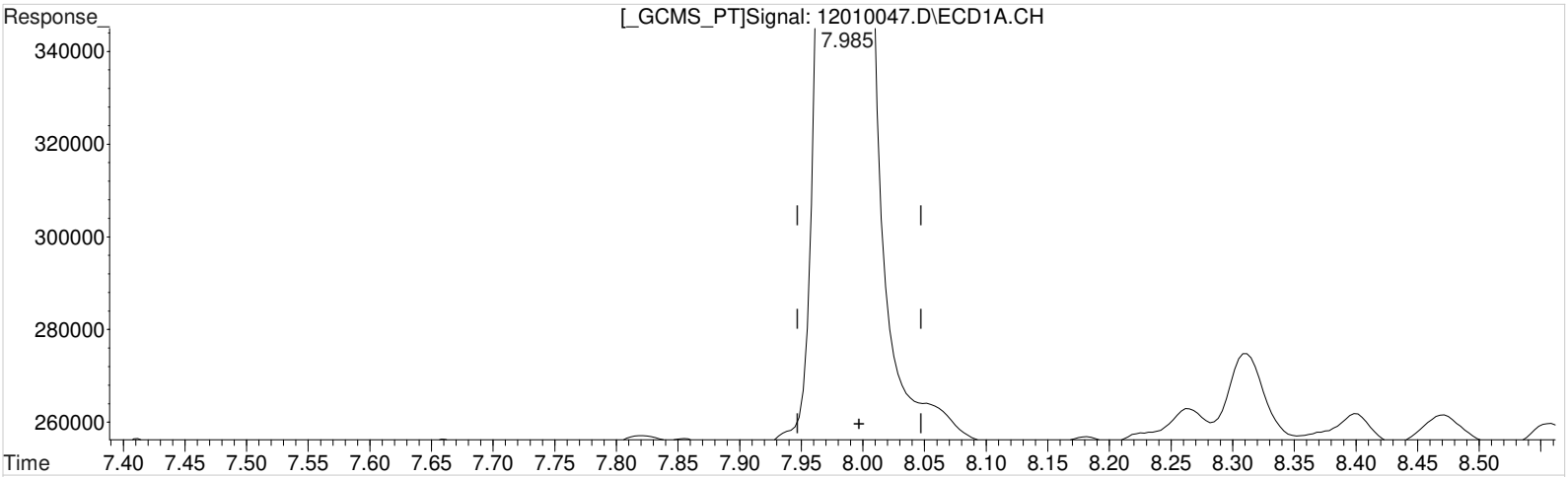
Quantitation Report (Qedit)

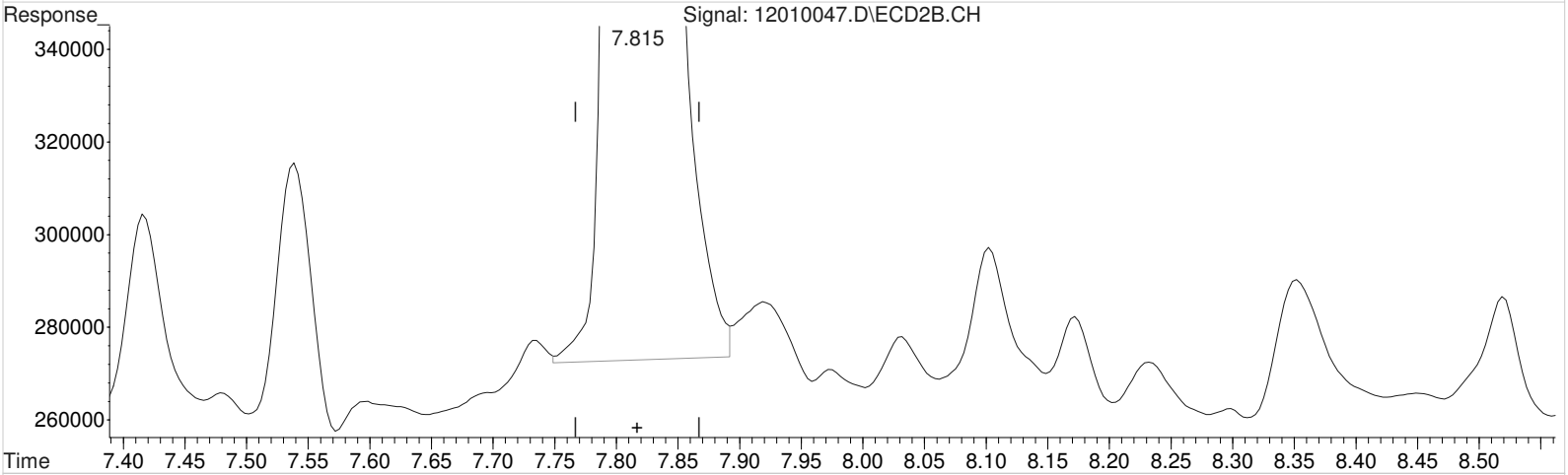
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

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

7.985min 65.663 ppb m

response 1194851

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

7.815min 105.488 ppb

response 4461913

Manual Integration:

Before

12/02/20

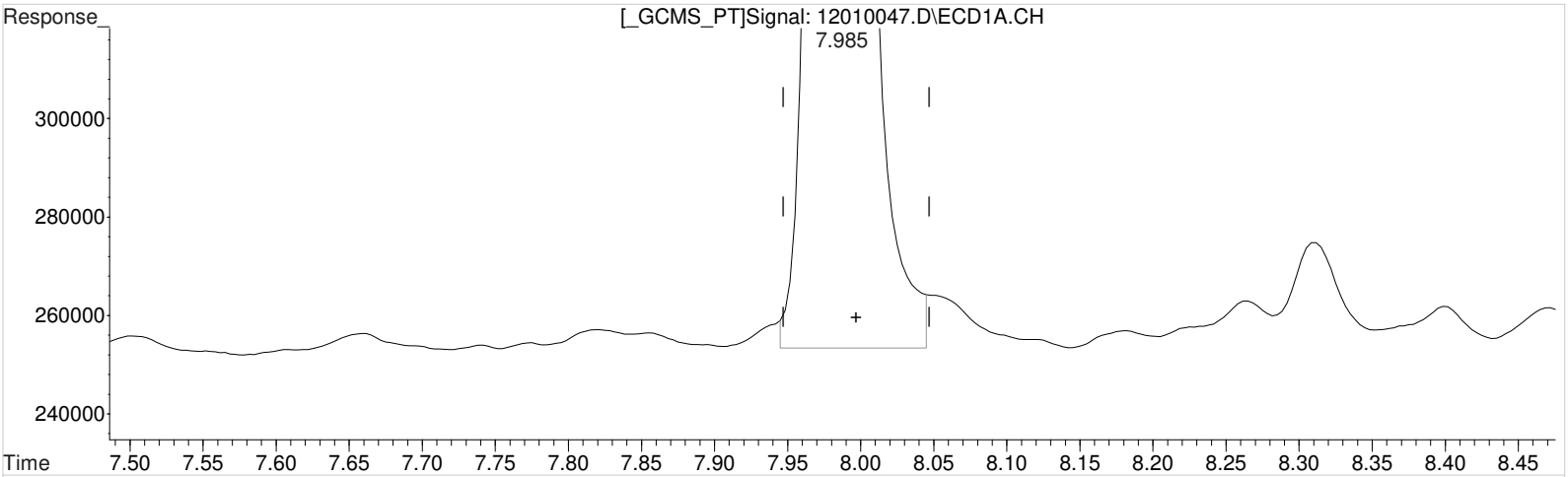
(+) = Expected Retention Time

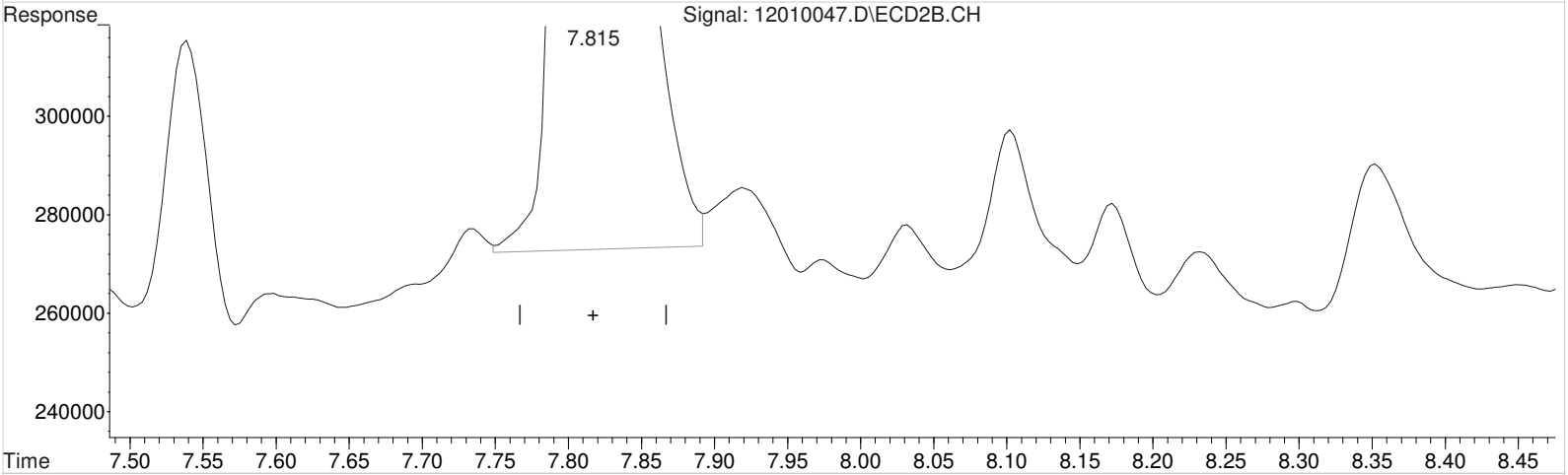
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

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

7.985min 65.663 ppb m

response 1194851

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.815min 105.488 ppb

response 4461913

(+) = Expected Retention Time

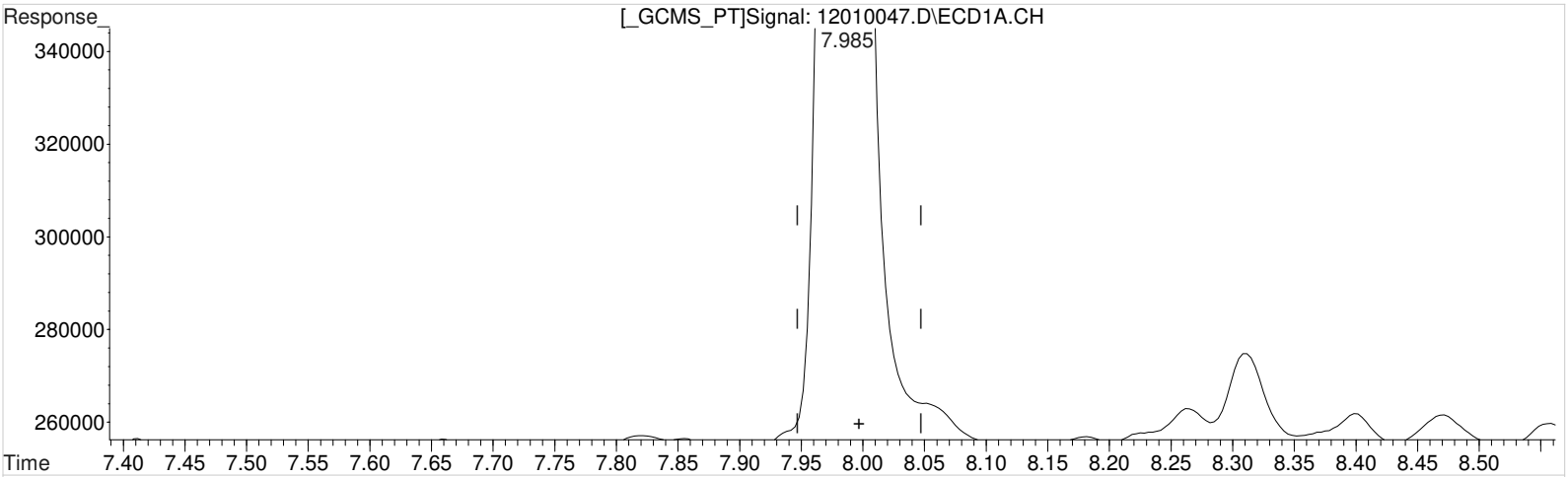
Quantitation Report (Qedit)

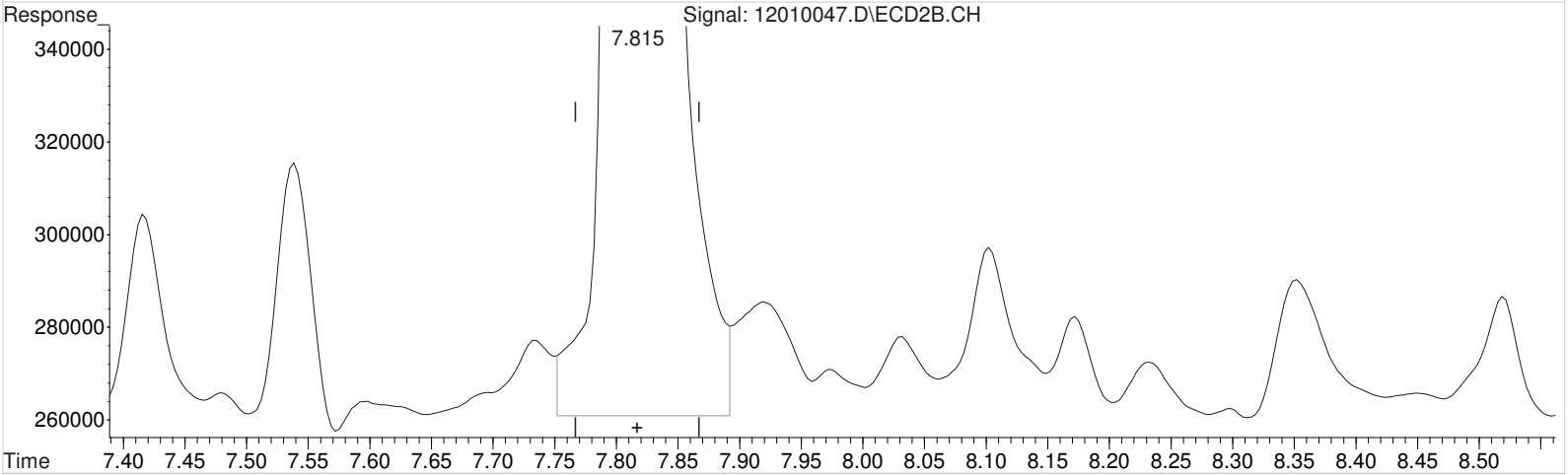
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

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

7.985min 65.663 ppb m

response 1194851

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.815min 107.880 ppb m

response 4563077

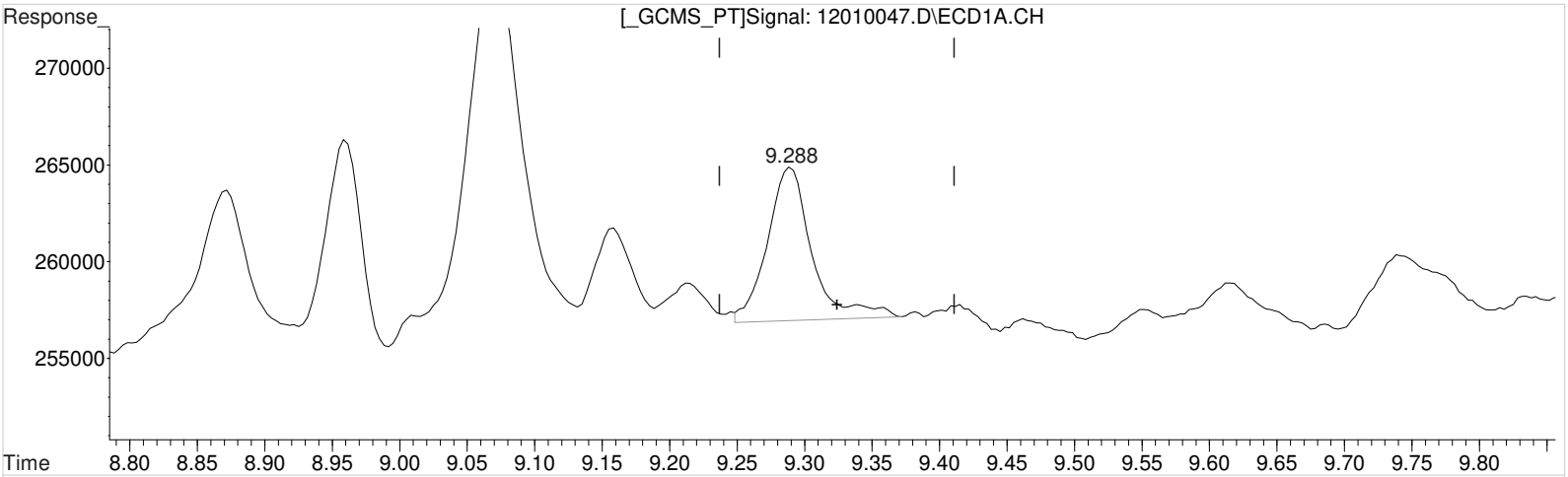
(+) = Expected Retention Time

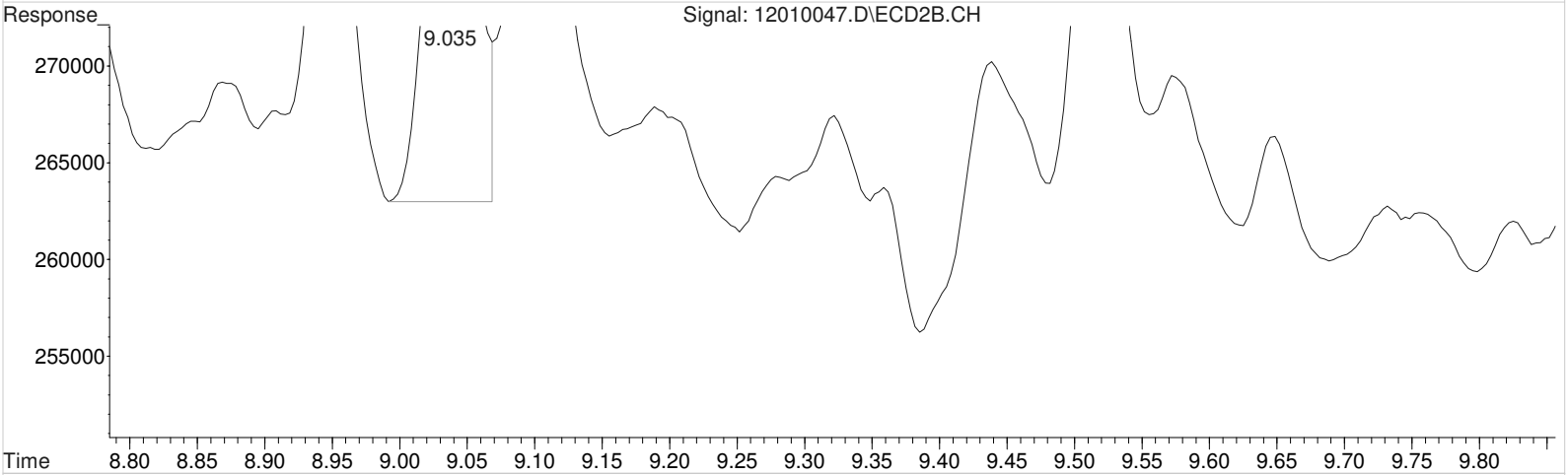
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

(7) 2,4-D (m)

9.288min 0.855 ppb

response 18158

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.035min 1.179 ppb

response 60340

(+) = Expected Retention Time

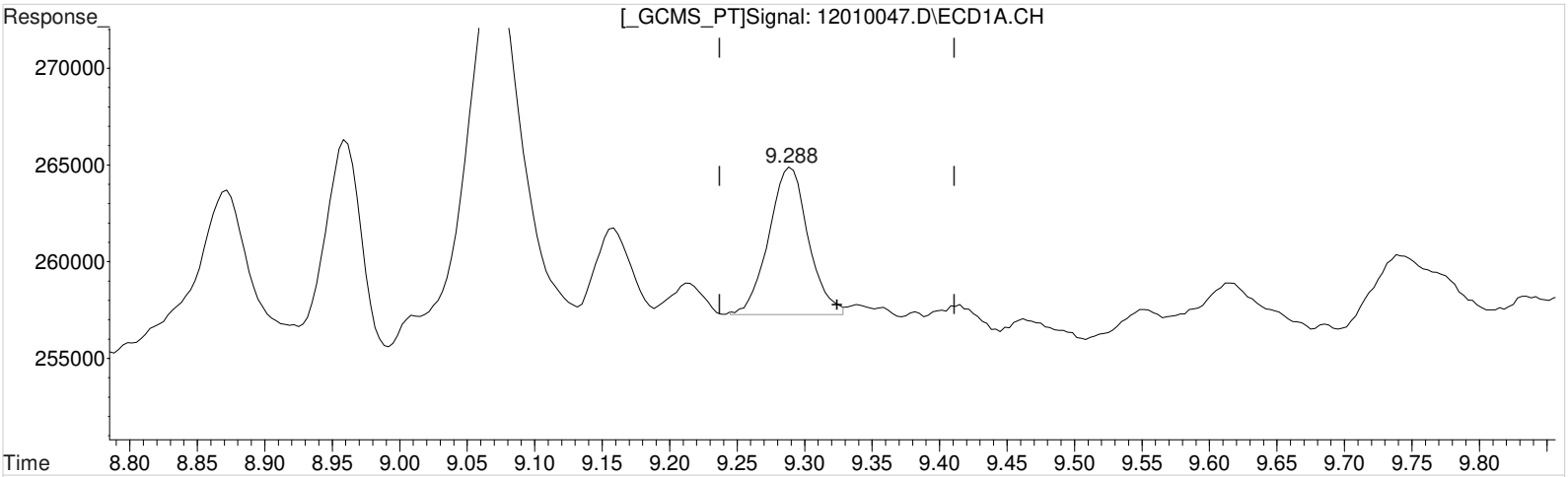
Quantitation Report (Qedit)

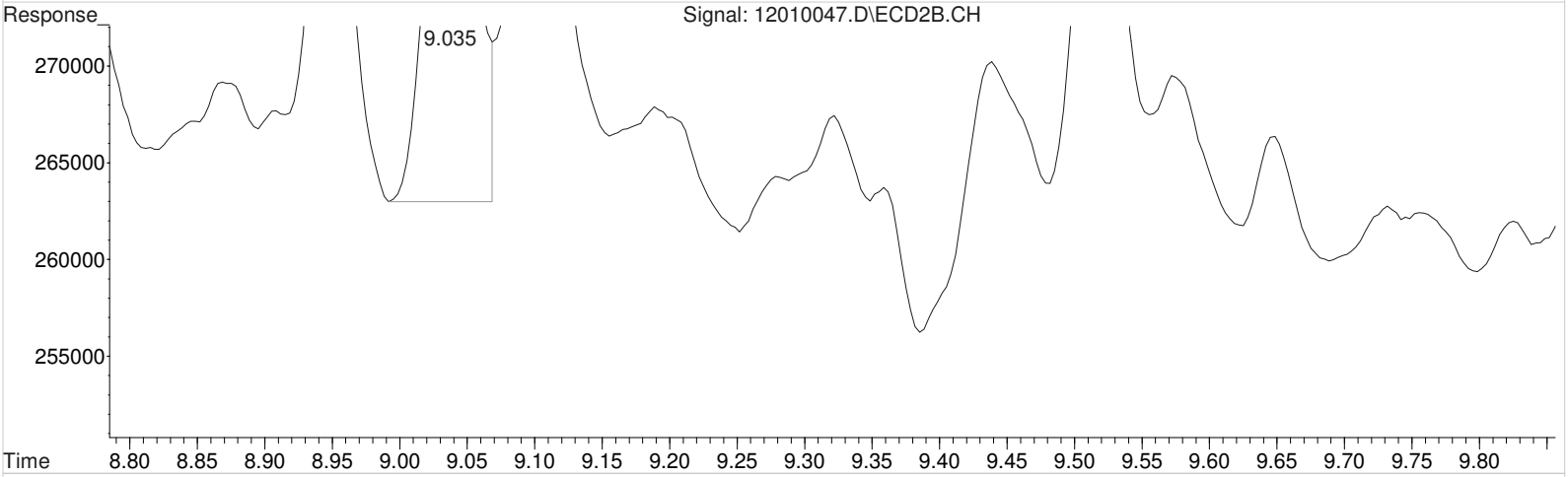
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

(7) 2,4-D (m)

9.288min 0.728 ppb m

response 15473

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.035min 1.179 ppb

response 60340

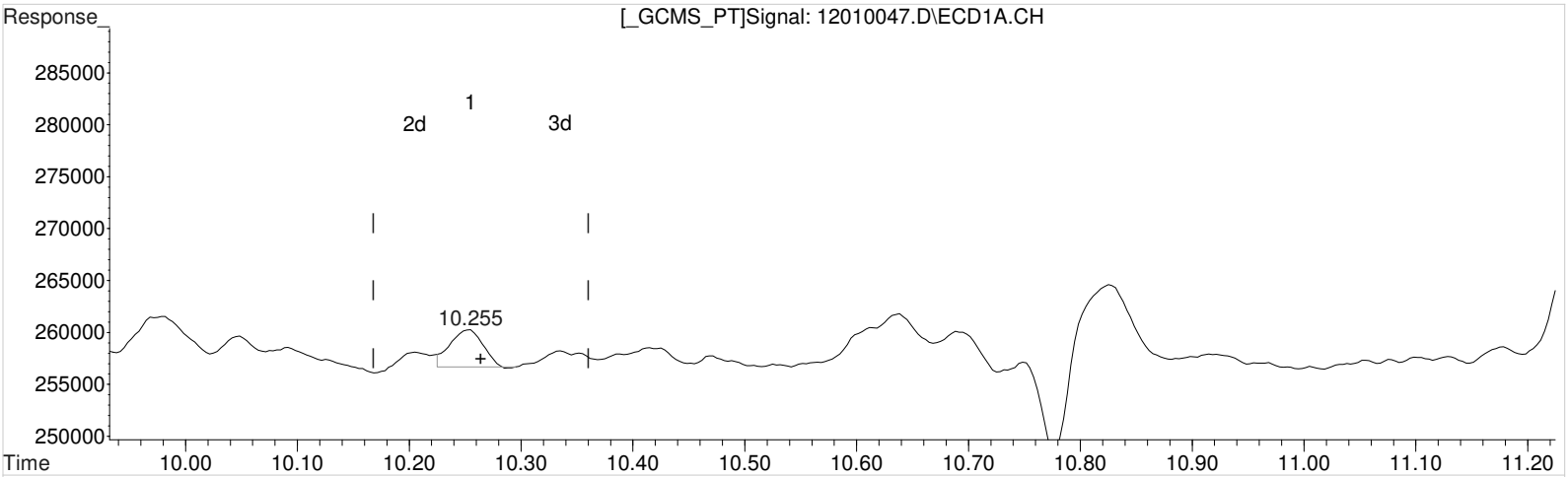
(+) = Expected Retention Time

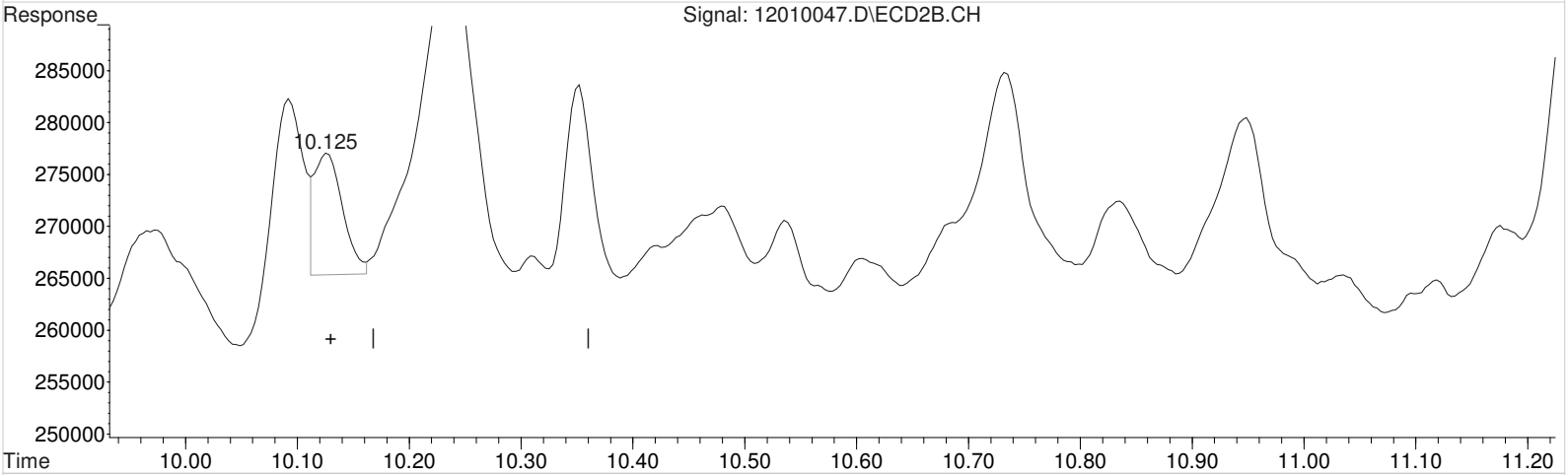
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.255min 0.077 ppb

response 7169

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.125min 0.099 ppb

response 20140

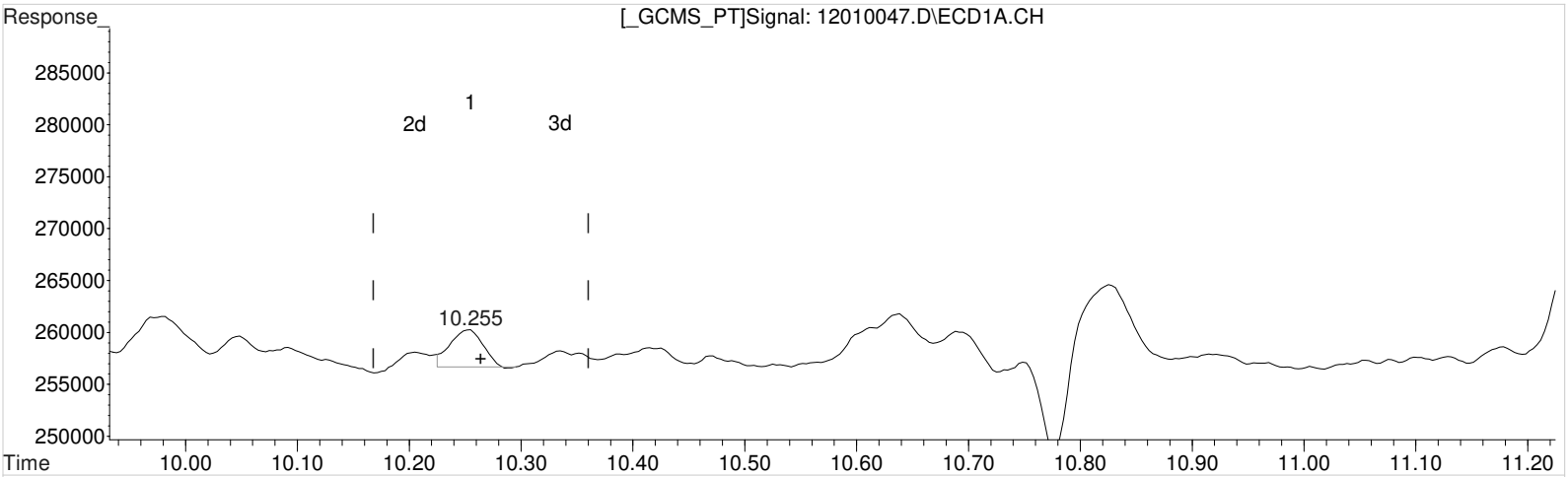
(+) = Expected Retention Time

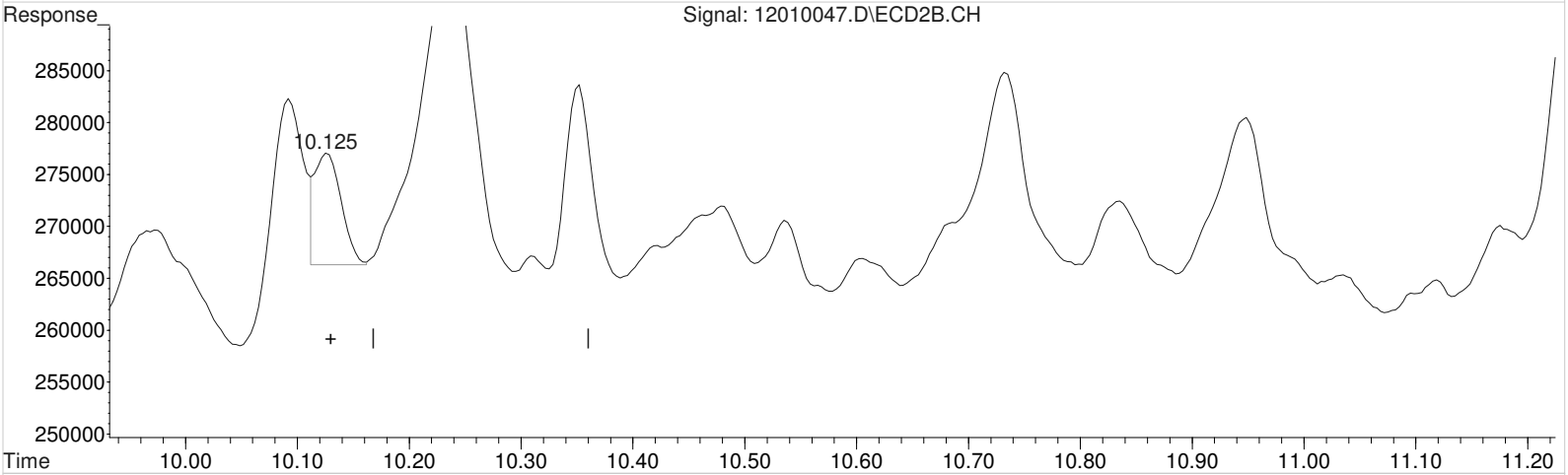
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010047.D Vial: 54
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:53 am Operator: UA
Sample : K2010456-002 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:26 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.255min 0.077 ppb

response 7169

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.125min 0.085 ppb m

response 17310

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010048.D\
Lab ID: K2010456-003
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 11:16:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010048.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 11:16:00	**Vial:**	30
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-003	**Raw Units:**	ppb

Bottle ID:	K2010456-003.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	971751	3689189	53.403	87.219	53	87	53	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 -0.01	10.12 -0.02	5176	8624	0.055	0.042	0.11U	0.081U	2.8 U	Y
2,4-D	9.28 -0.04	9.03 -0.04	17215	59955	0.810	1.171	1.6U	2.3U	8.9 U	Y

Prep Amount:	30.030 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.60

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010048.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:16 am Operator: UA
Sample : K2010456-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:46:45 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...	7.980	7.813	971751	3689189	53.403m	87.219 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.283	9.033	17215	59955	0.810	1.171 #
8)	m	2,4,5-TP ...	10.246	10.116	5176	8624	0.055	0.042
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

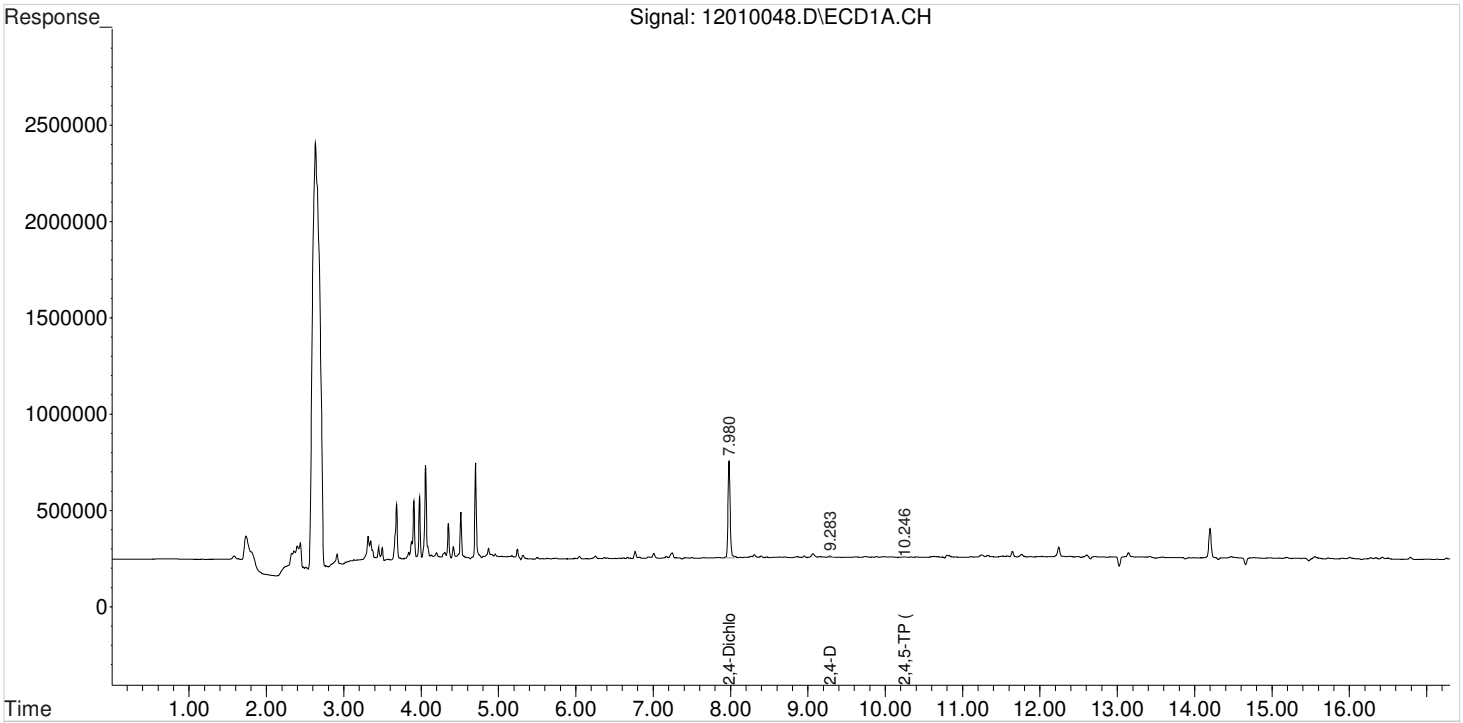
Quantitation Report (QT Reviewed)

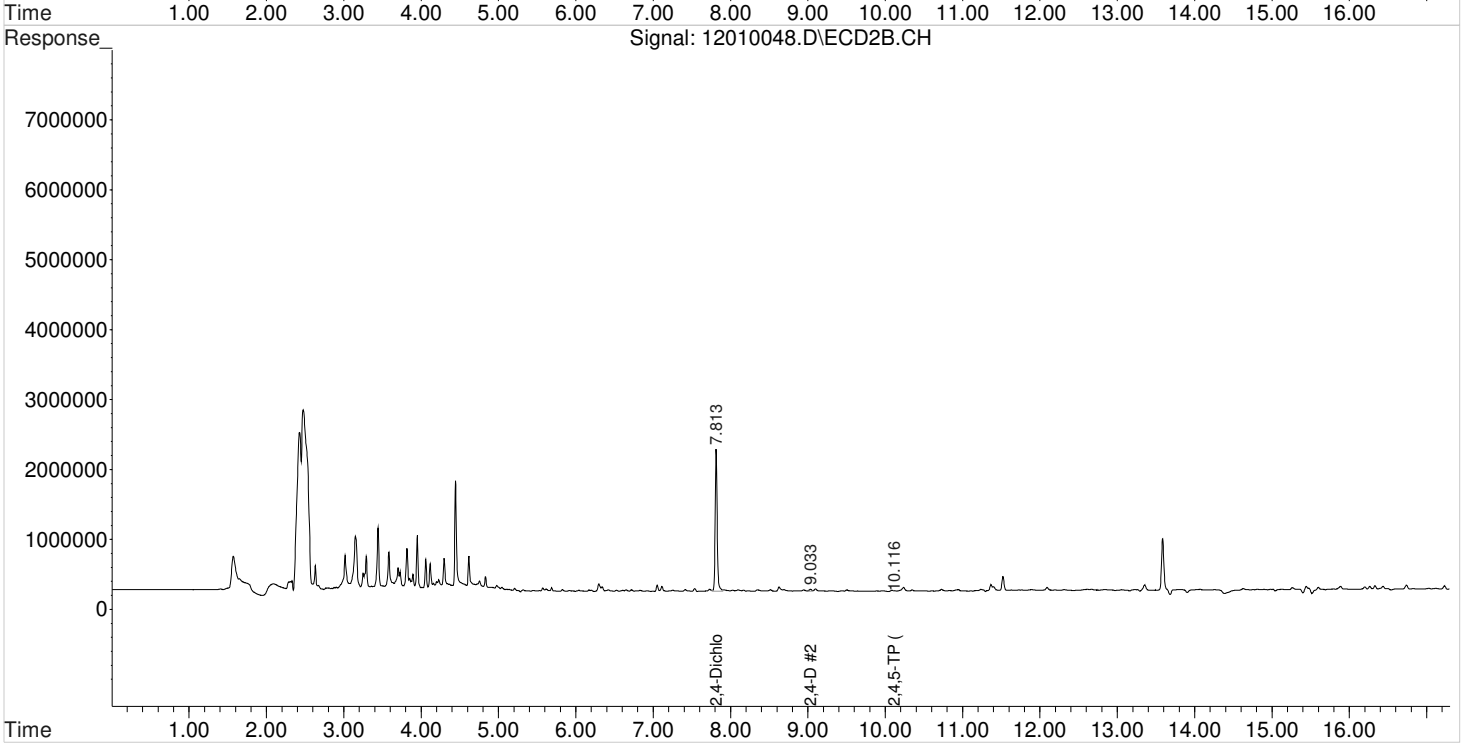
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010048.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:16 am Operator: UA
Sample : K2010456-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:46:45 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



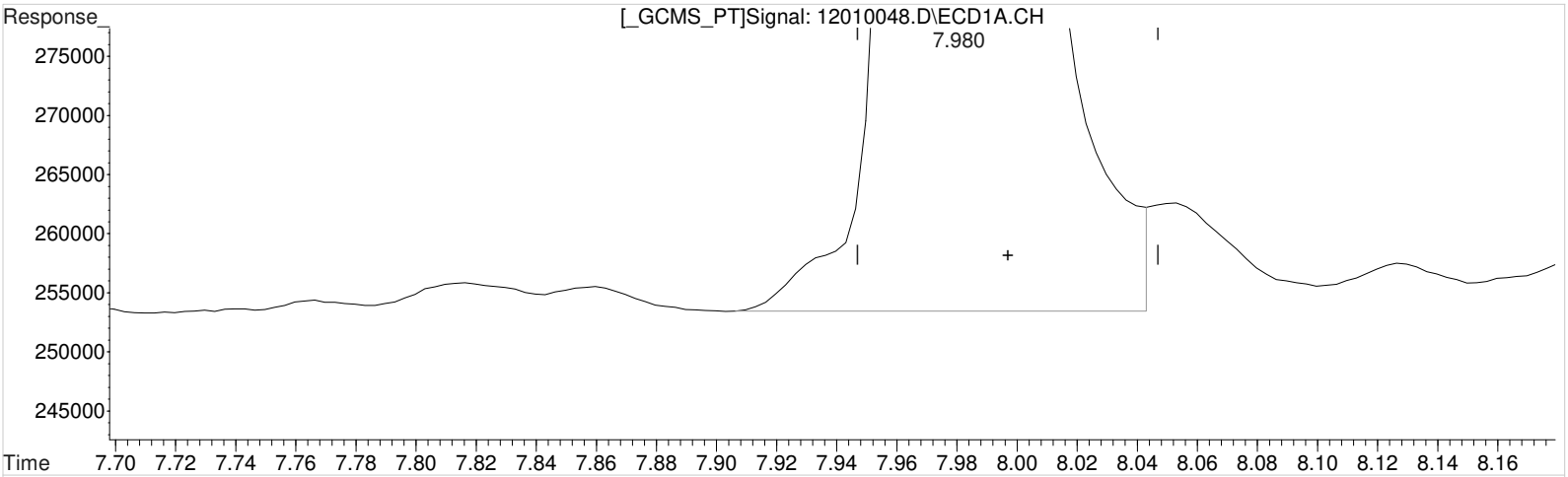


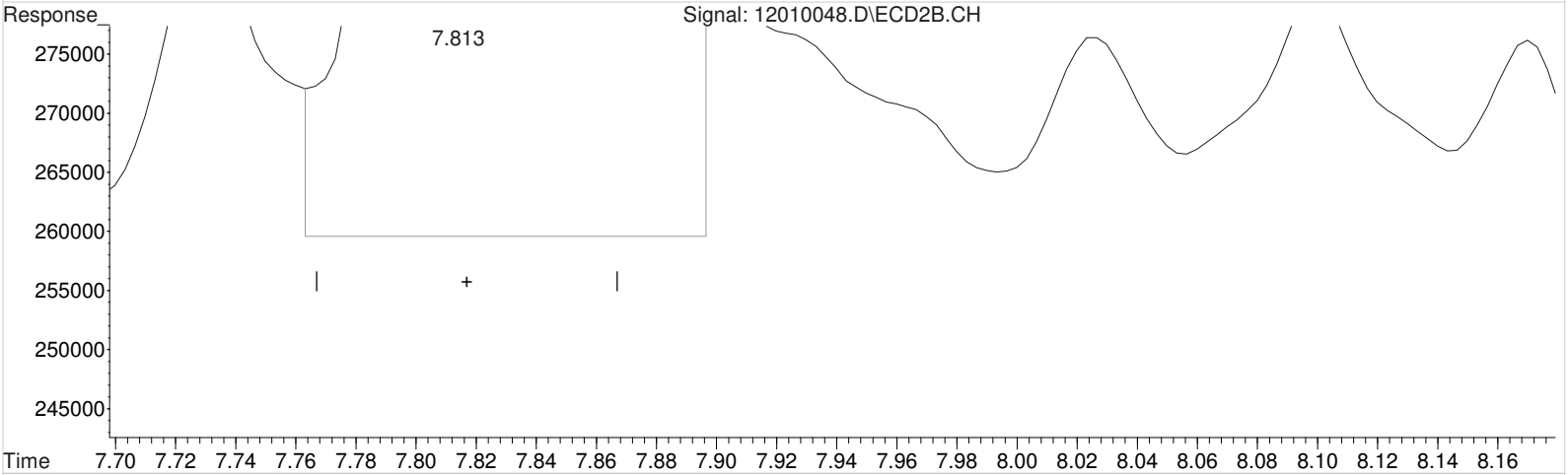
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010048.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:16 am Operator: UA
Sample : K2010456-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:29 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





QEdit

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

7.980min 53.676 ppb

response 976715

Manual Integration:

Before

12/02/20

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

7.813min 87.219 ppb

response 3689189

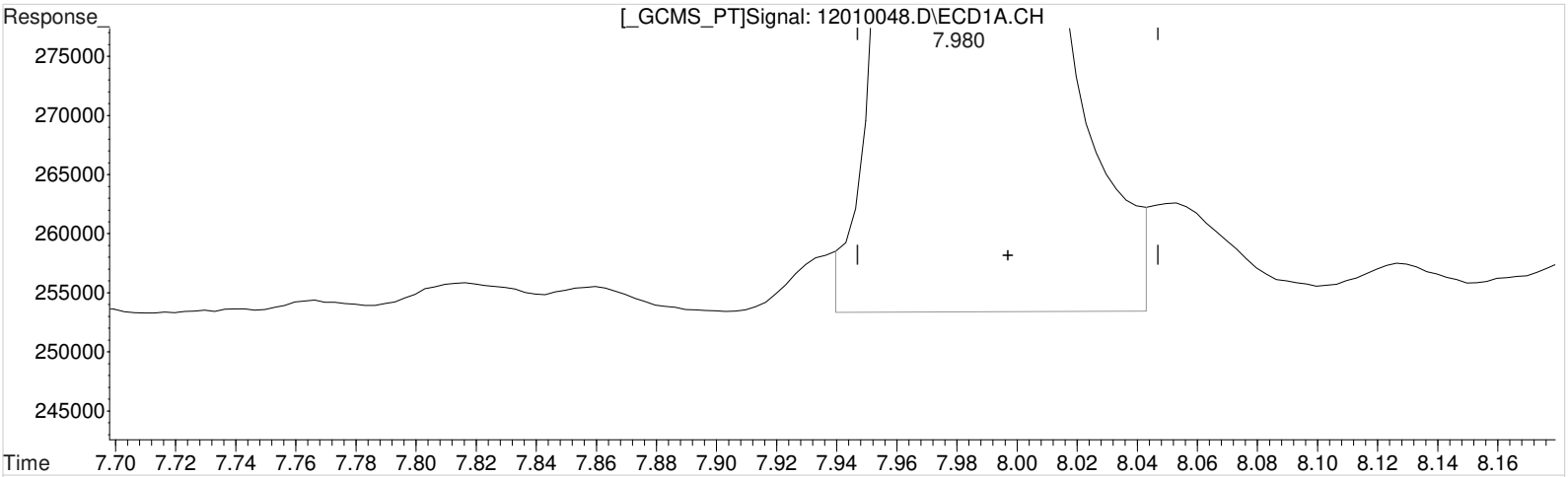
(+) = Expected Retention Time

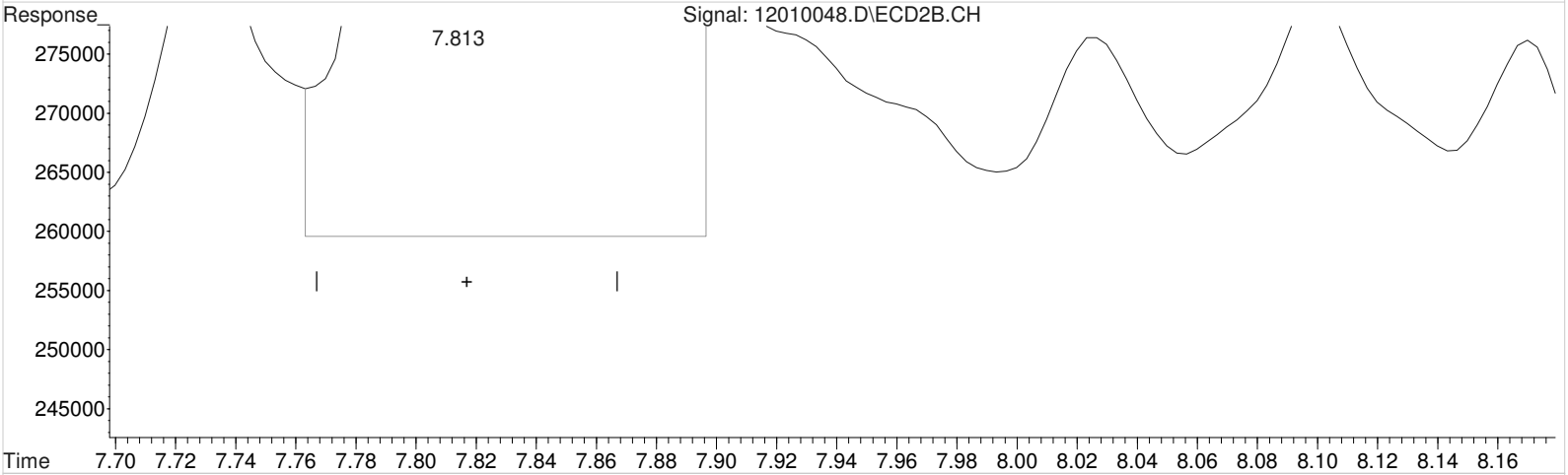
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010048.D Vial: 55
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:16 am Operator: UA
Sample : K2010456-003 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:29 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





QEdit

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

7.980min 53.403 ppb m

response 971751

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.813min 87.219 ppb

response 3689189

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010049.D\
Lab ID: K2010456-004
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 11:39:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
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Secondary Review: _____

1st UA 12/03/20
2nd 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010049.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 11:39:00	**Vial:**	31
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-004	**Raw Units:**	ppb

Bottle ID:	K2010456-004.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1071564	4019400	58.888	95.026	59	95	59	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	10.24 -0.02	10.11 -0.03	4500	9323	0.048	0.046	0.10U	0.098U	3.1 U	Y
2,4-D	9.28 -0.04	9.03 -0.04	9137	68865	0.430	1.345	0.92U	2.9U	9.9 U	Y

Prep Amount:	30.003 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	78.10

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:50:13 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...	7.979	7.810	1071564	4019400	58.888m	95.026m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.279	9.026	9137	68865	0.430m	1.345 #
8)	m	2,4,5-TP ...	10.243	10.113	4500	9323	0.048	0.046
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

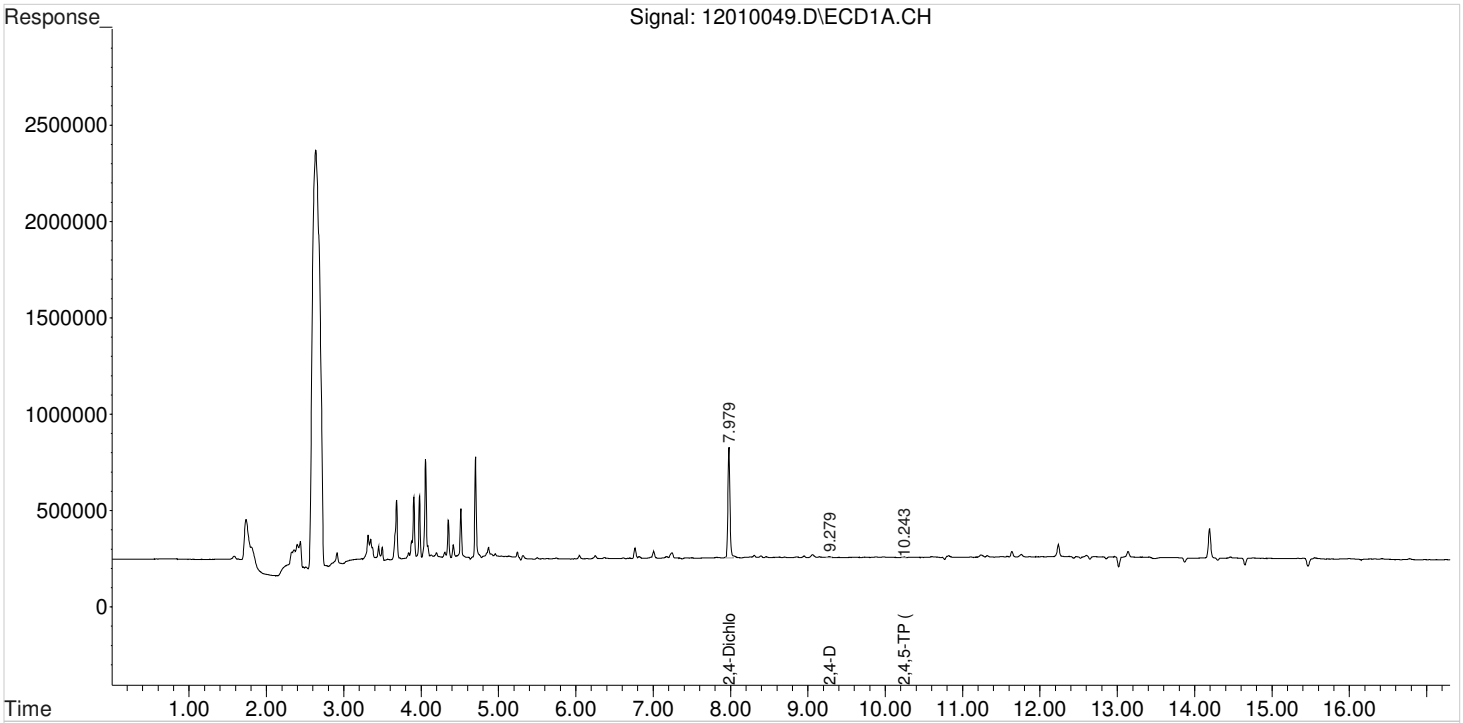
Quantitation Report (QT Reviewed)

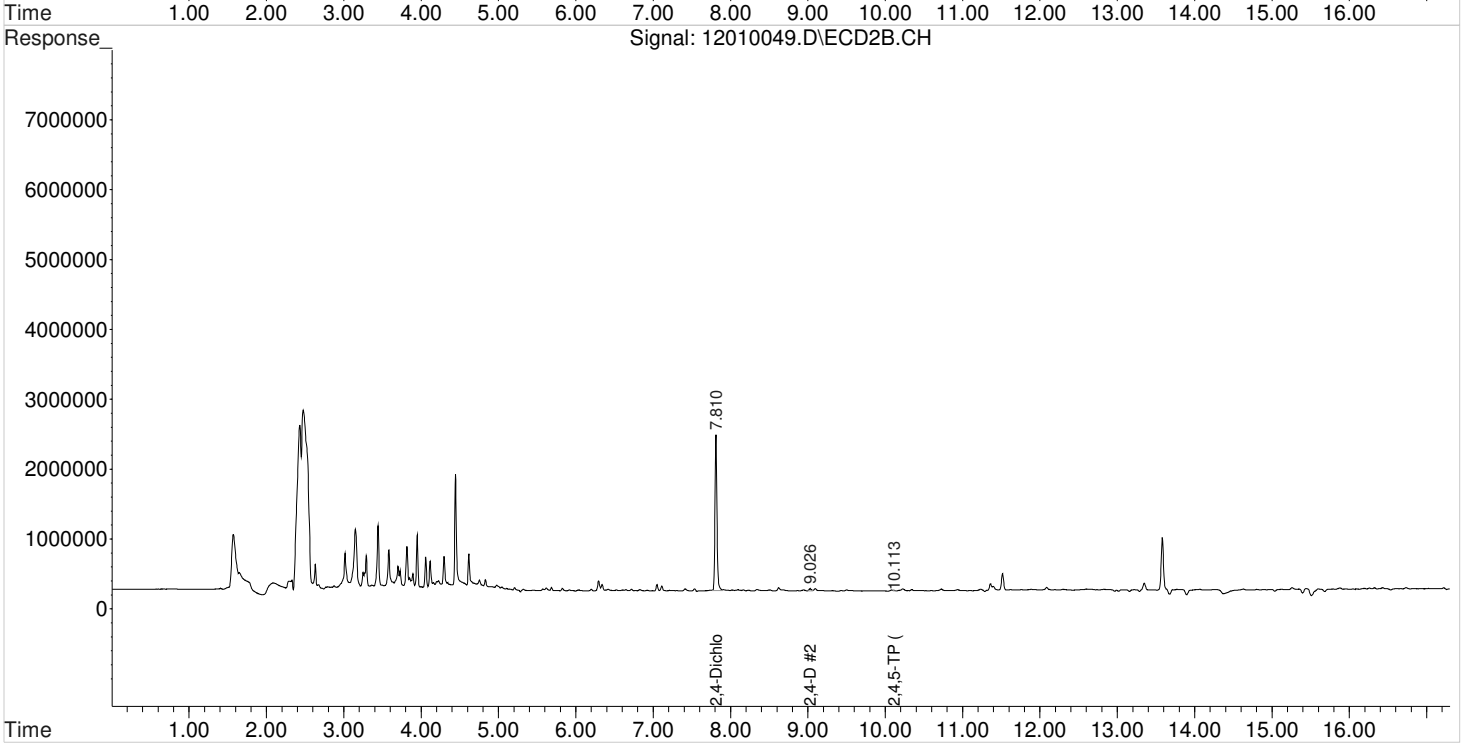
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:50:13 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





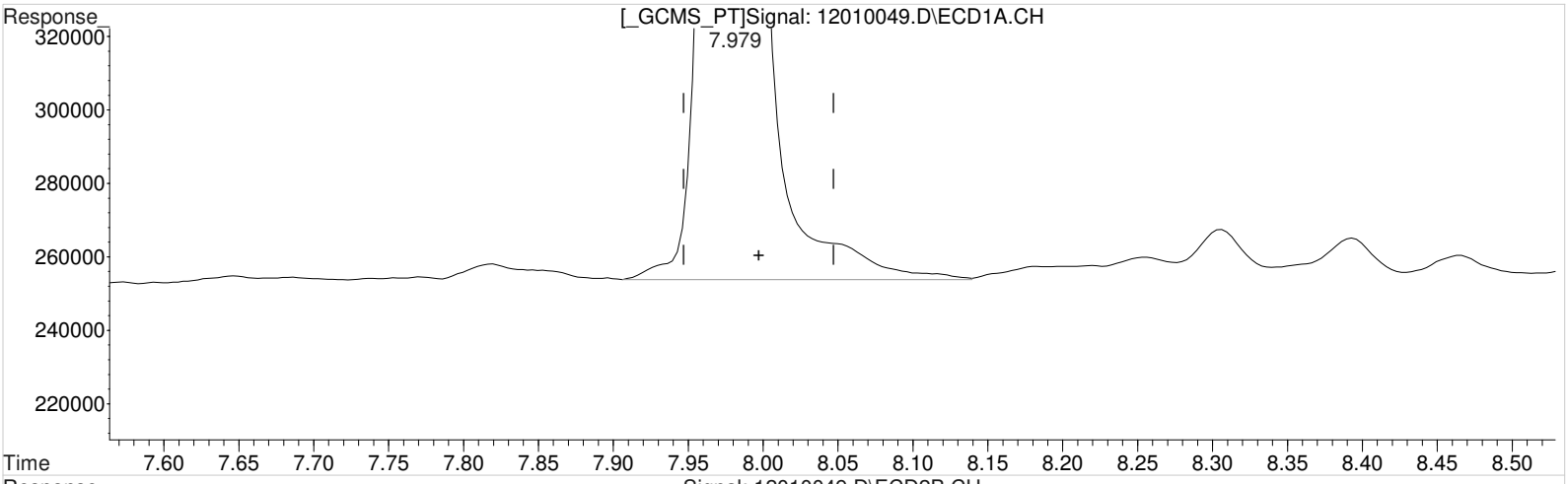
Quantitation Report (Qedit)

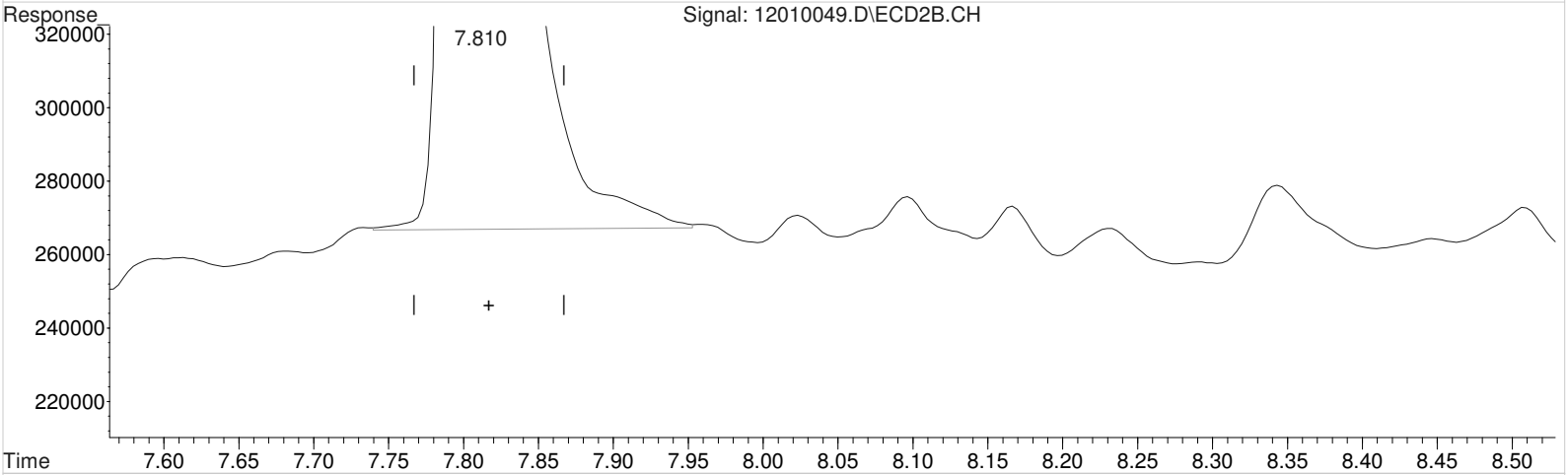
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

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

7.979min 60.508 ppb

response 1101033

Manual Integration:

Before

12/02/20

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

7.810min 94.432 ppb

response 3994260

(+) = Expected Retention Time

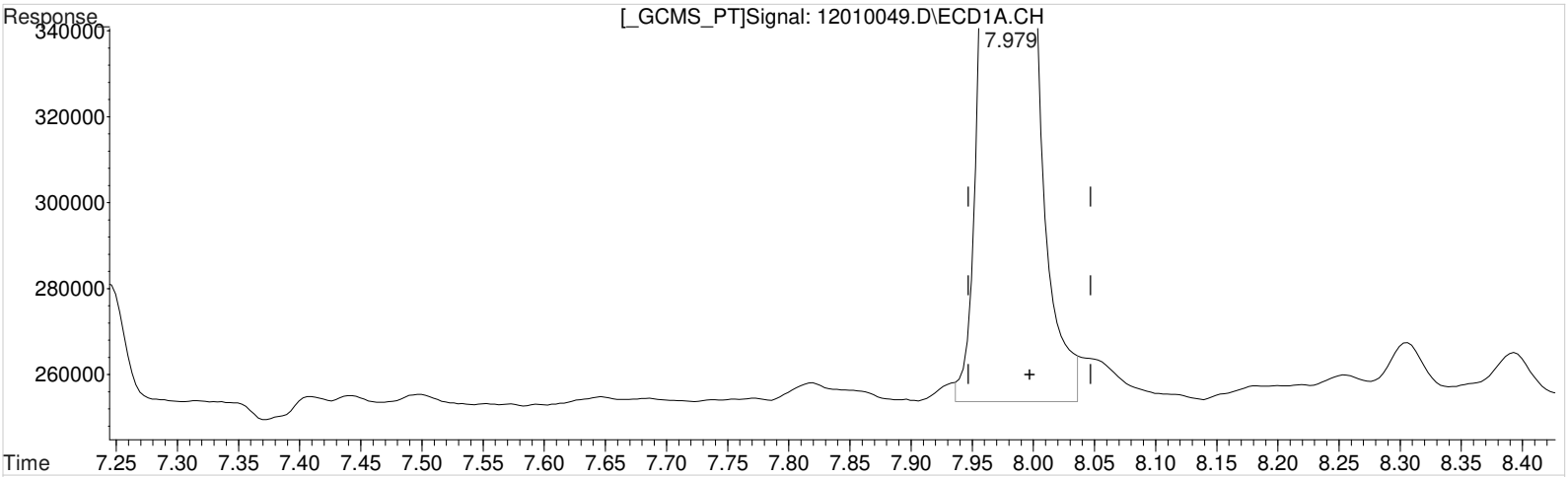
Quantitation Report (Qedit)

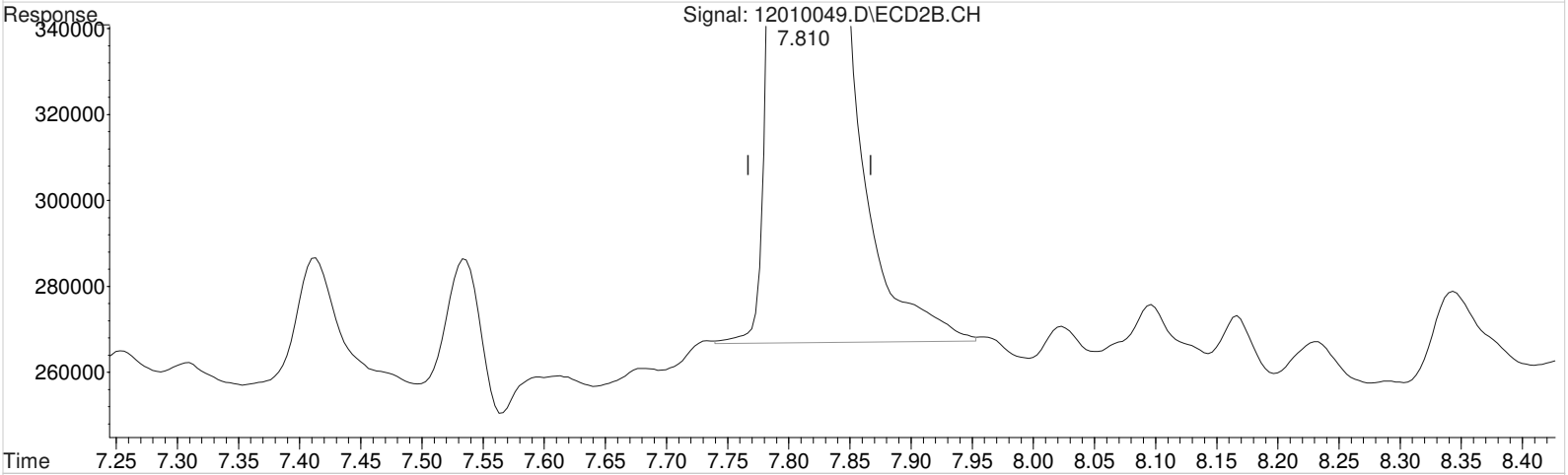
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

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

7.979min 58.888 ppb m

response 1071564

Manual Integration:

Before

12/02/20

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

7.810min 94.432 ppb

response 3994260

(+) = Expected Retention Time

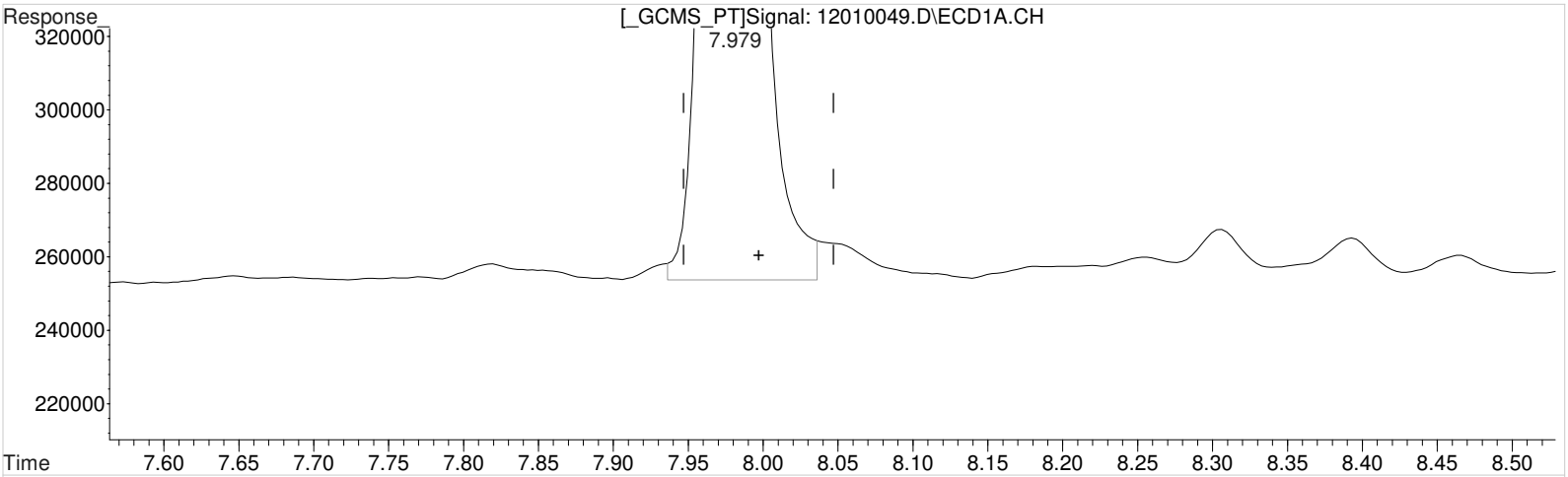
Quantitation Report (Qedit)

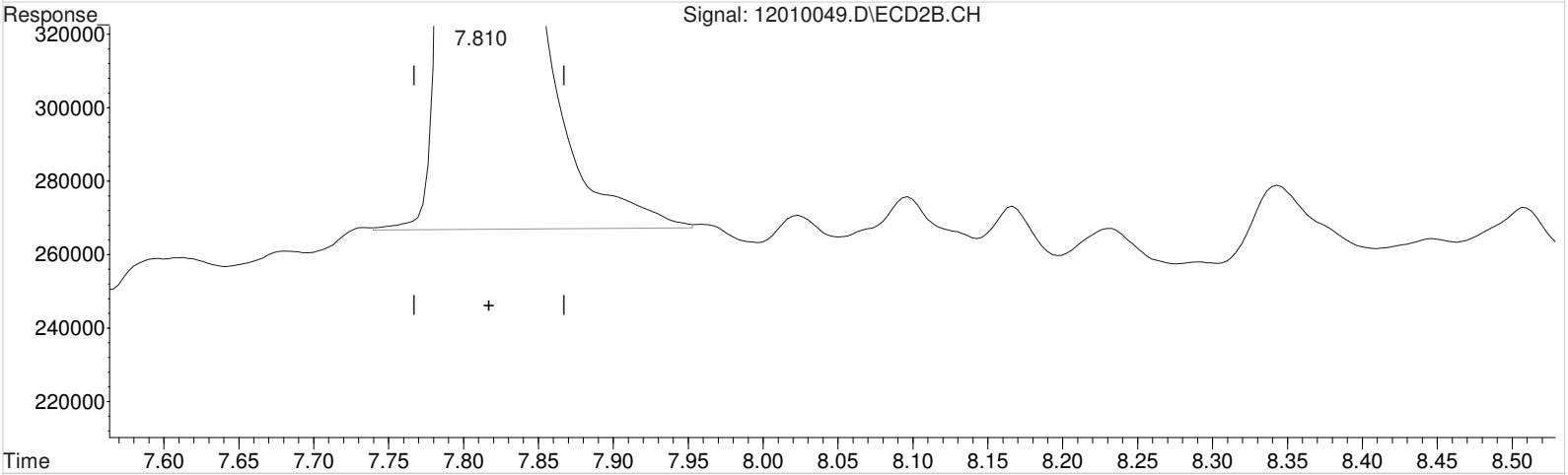
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

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

7.979min 58.888 ppb m

response 1071564

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 94.432 ppb

response 3994260

(+) = Expected Retention Time

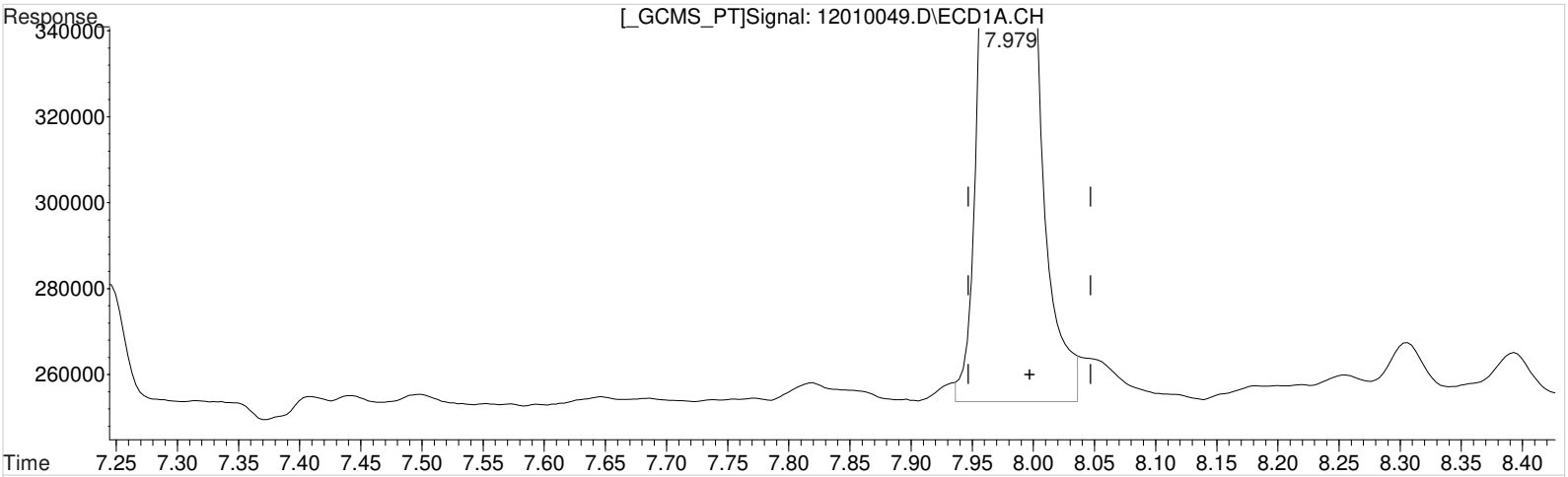
Quantitation Report (Qedit)

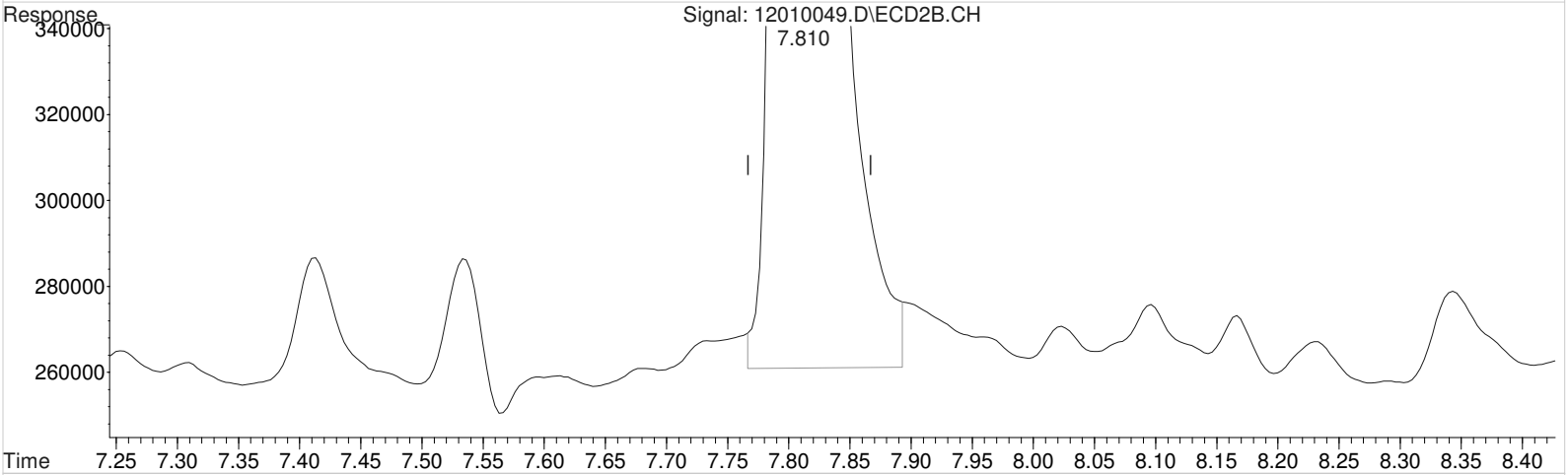
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

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

7.979min 58.888 ppb m

response 1071564

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 95.026 ppb m

response 4019400

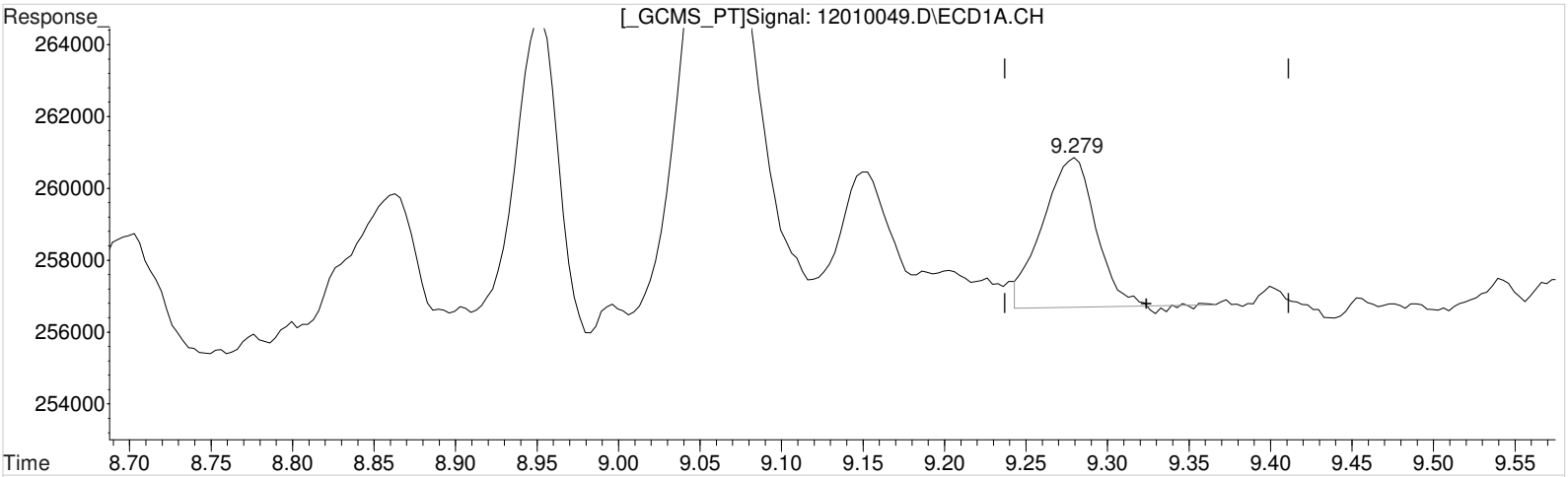
(+) = Expected Retention Time

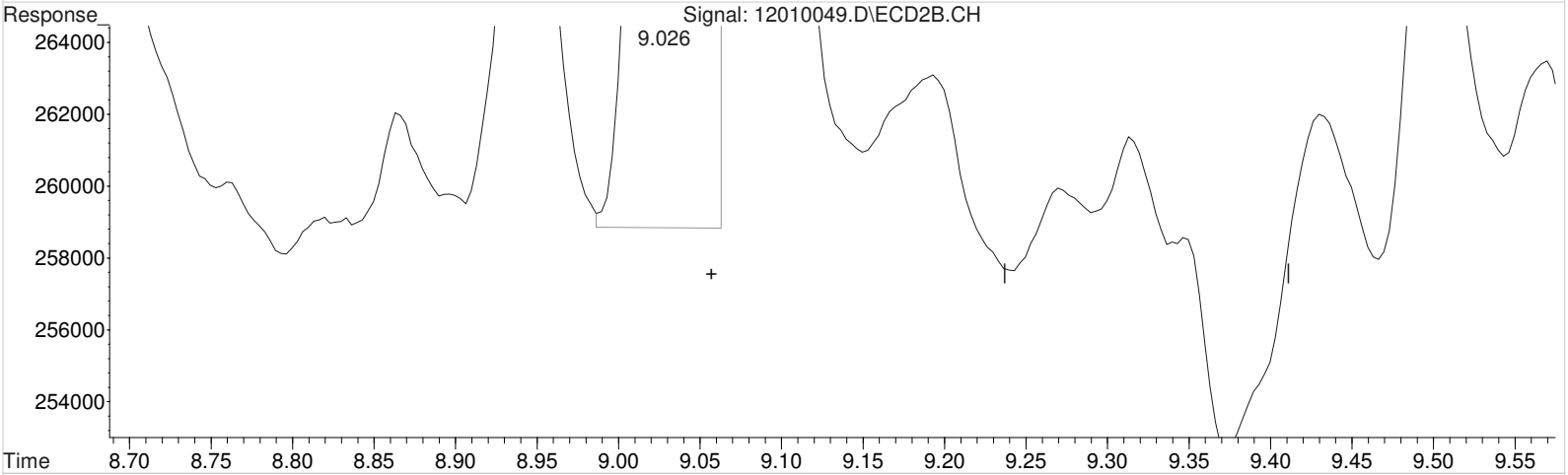
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

(7) 2,4-D (m)

9.279min 0.439 ppb

response 9327

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.026min 1.345 ppb

response 68865

(+) = Expected Retention Time

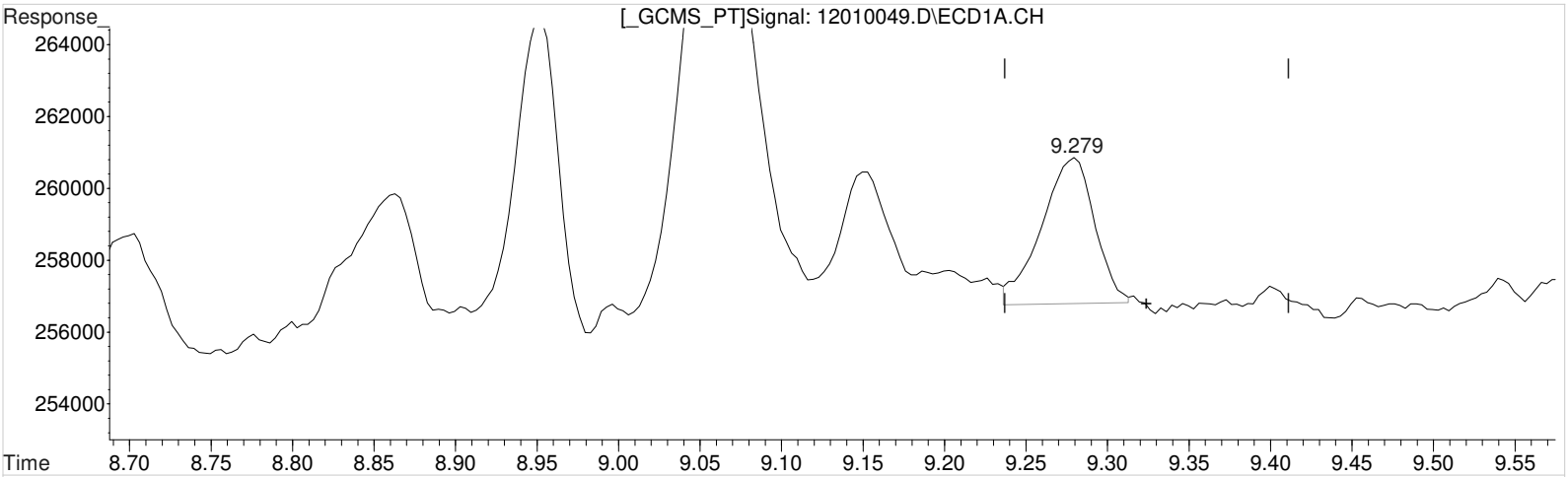
Quantitation Report (Qedit)

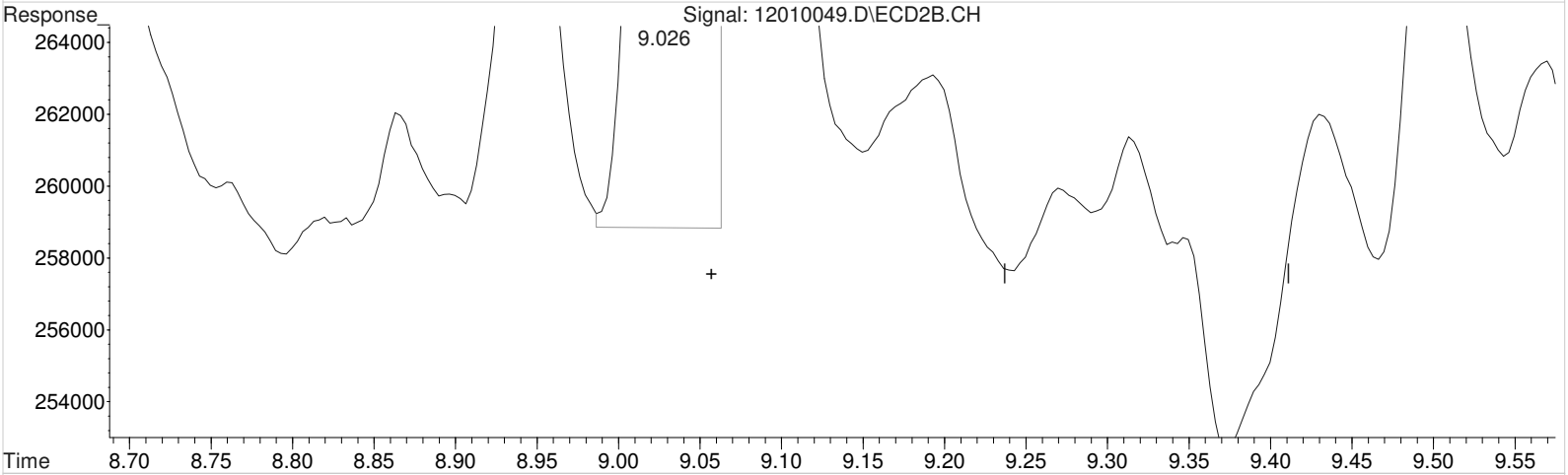
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010049.D Vial: 56
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 11:39 am Operator: UA
Sample : K2010456-004 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:32 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





QEdit

(7) 2,4-D (m)

9.279min 0.430 ppb m

response 9137

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.026min 1.345 ppb

response 68865

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010050.D\
Lab ID: K2010456-005
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 12:02:00
Batch ID: 705654
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: _____

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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010050.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 12:02:00	**Vial:**	32
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-005	**Raw Units:**	ppb

Bottle ID:	K2010456-005.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1072550	4038785	58.942	95.484	59	95	59	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 -0.01	10.12 -0.02	6017	25229	0.064	0.124	0.13U	0.25U	2.9 U	Y
2,4-D	9.36 +0.04	9.03 -0.04	3174	55880	0.149	1.091	0.29U	2.2U	9.2 U	Y

Prep Amount:	30.103 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	84.00

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010050.D Vial: 57
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:02 pm Operator: UA
Sample : K2010456-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:51:30 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...	7.981	7.814	1072550	4038785	58.942m	95.484 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.357	9.028	3174	55880	0.149	1.091 #
8)	m	2,4,5-TP ...	10.247	10.118	6017	25229	0.064	0.124 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

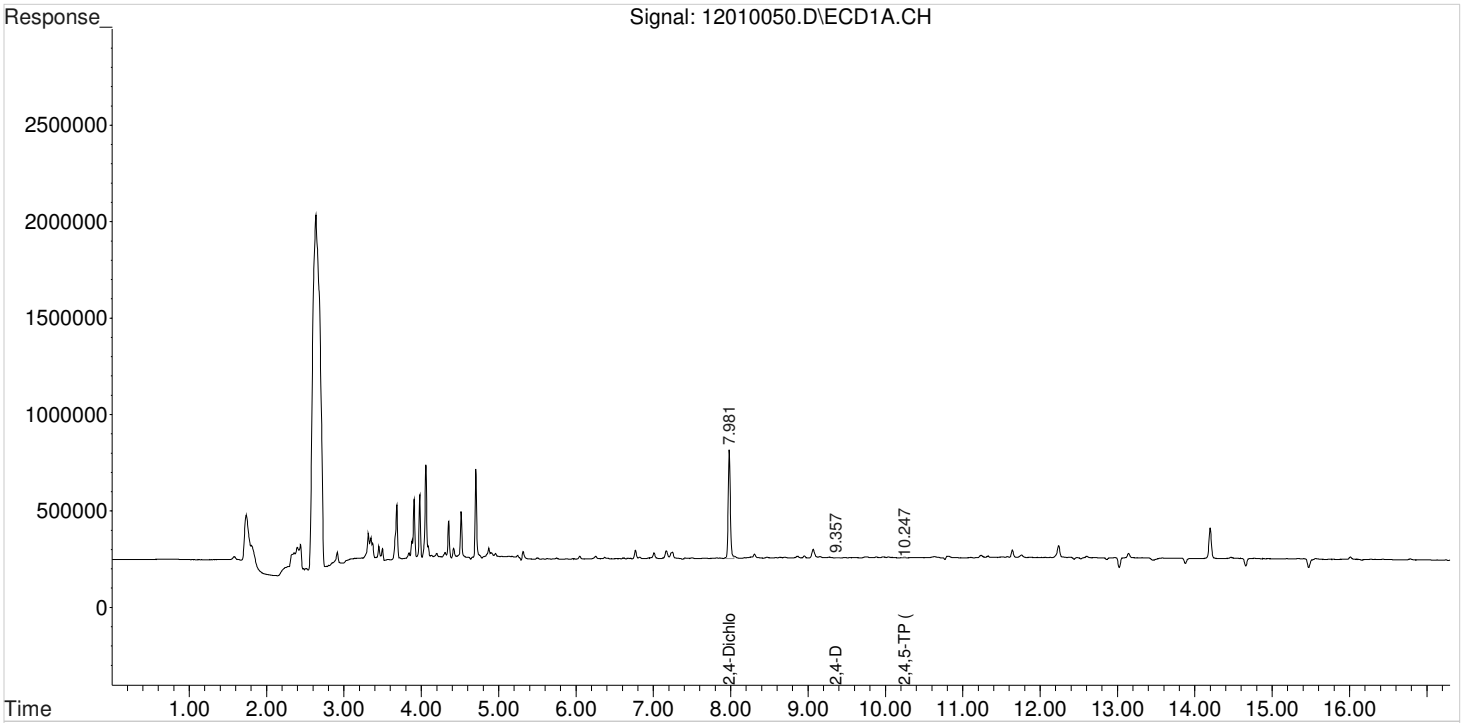
Quantitation Report (QT Reviewed)

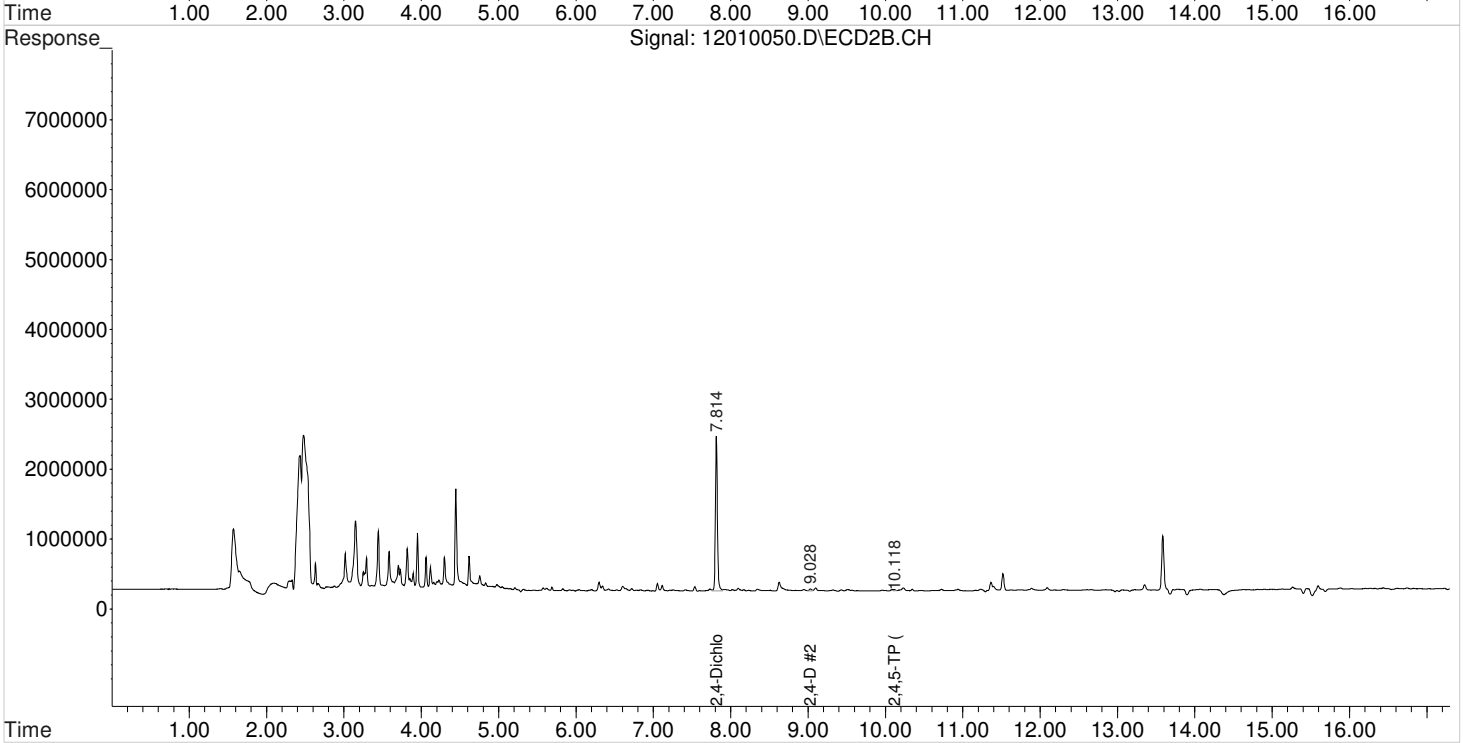
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010050.D Vial: 57
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:02 pm Operator: UA
Sample : K2010456-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:51:30 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





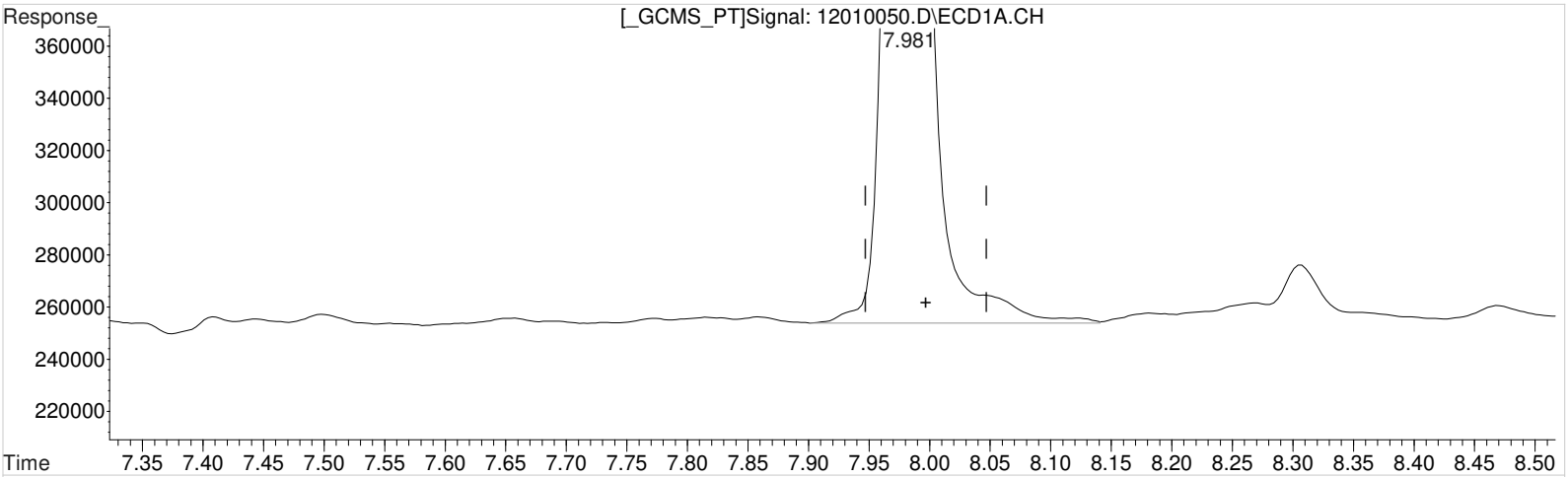
Quantitation Report (Qedit)

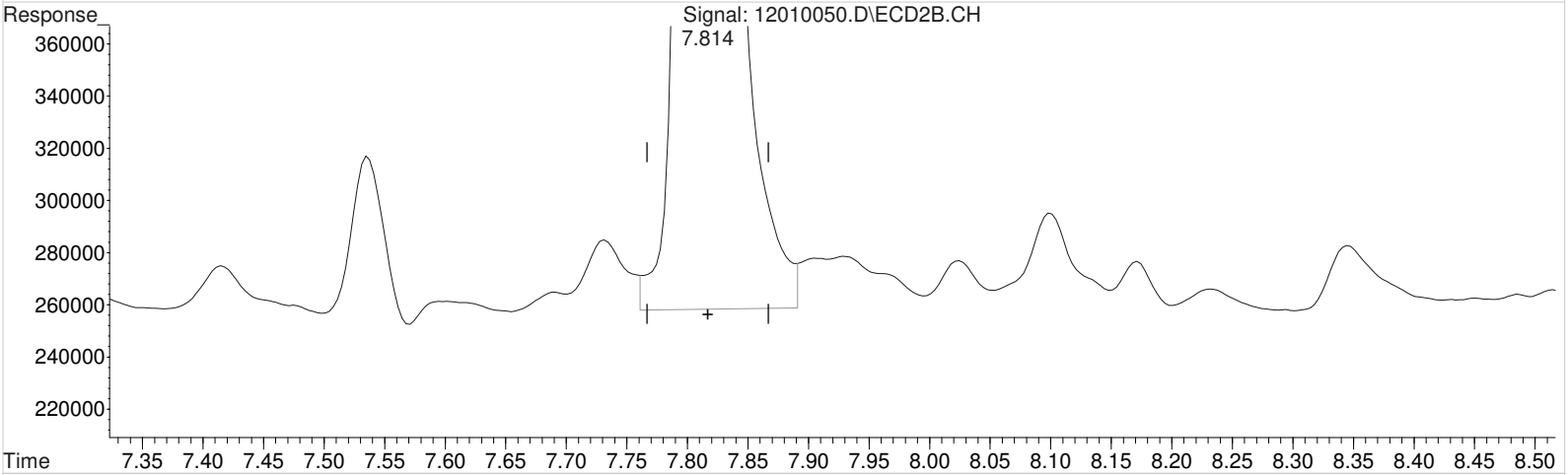
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010050.D Vial: 57
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:02 pm Operator: UA
Sample : K2010456-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:35 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





QEdit

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

7.981min 60.691 ppb

response 1104365

Manual Integration:

Before

12/02/20

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

7.814min 95.484 ppb

response 4038785

(+) = Expected Retention Time

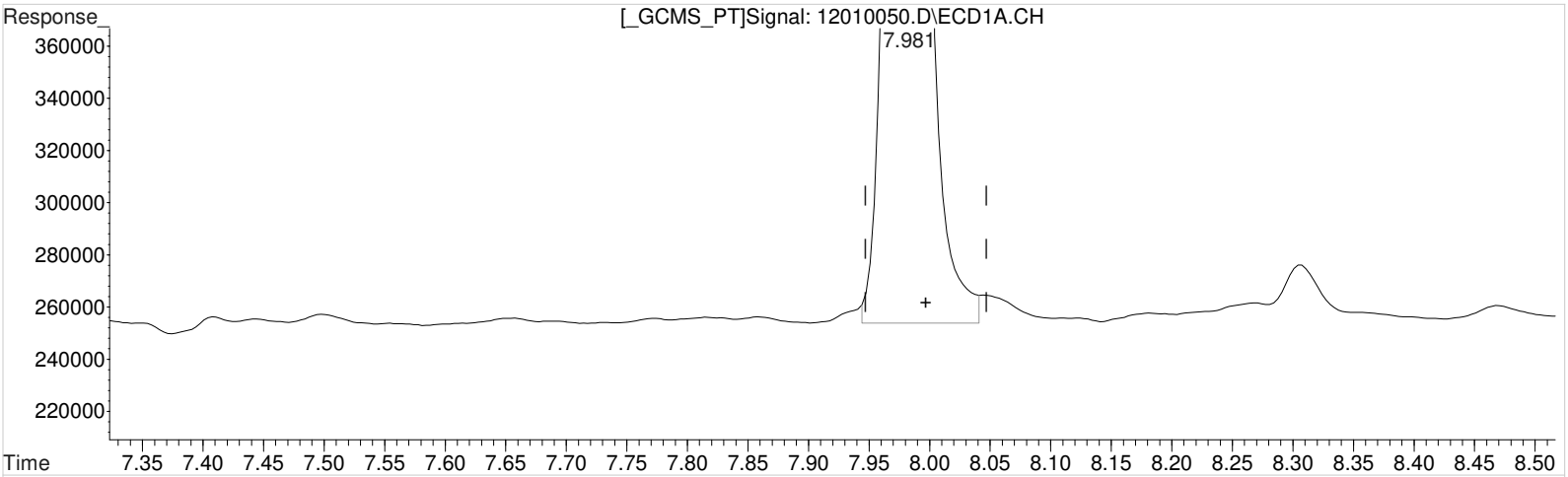
Quantitation Report (Qedit)

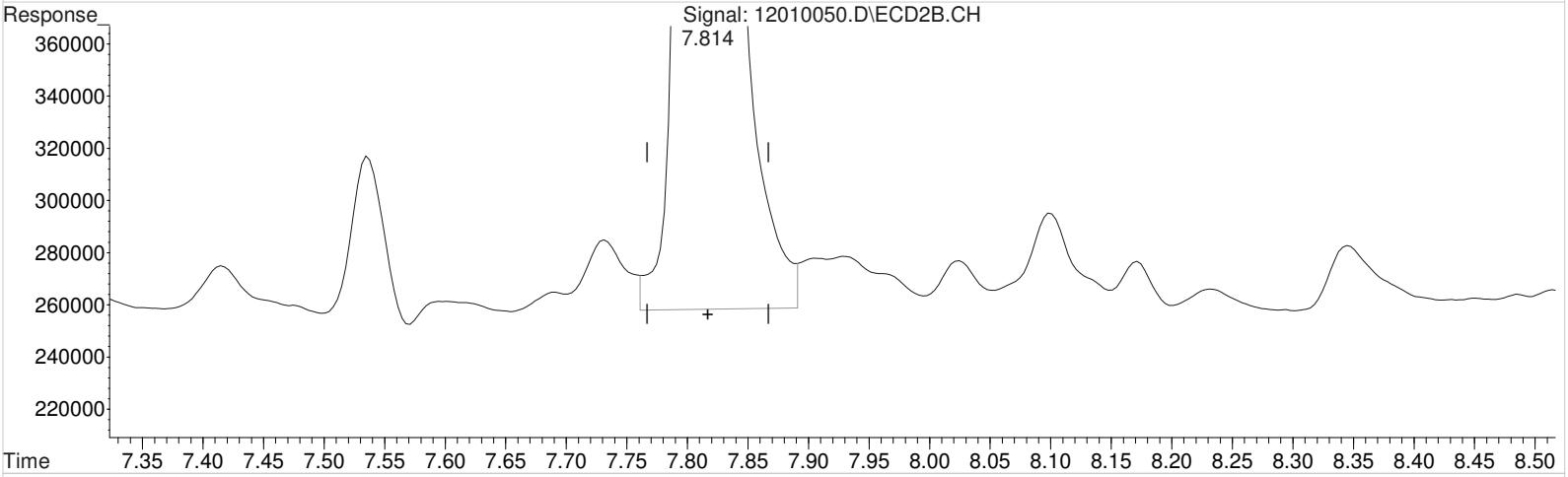
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010050.D Vial: 57
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:02 pm Operator: UA
Sample : K2010456-005 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:35 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





QEdit

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

7.981min 58.942 ppb m

response 1072550

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.814min 95.484 ppb

response 4038785

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010053.D\
Lab ID: K2010456-006
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 13:11:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010053.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 13:11:00	**Vial:**	24
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-006	**Raw Units:**	ppb

Bottle ID:	K2010456-006.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	1014135	3835069	55.732	90.668	56	91	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	10.11 -0.02	6208	8110	0.066	0.040 CCV	0.14U	0.087U	3.2 U	Y
2,4-D	9.28 -0.03	9.03 -0.03	19036	73253	0.896	1.431	1.9U	3.1U	11 U	Y

Prep Amount:	30.010 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.60

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:14:57 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	7.813	1014135	3835069	55.732m	90.668 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.283	9.033	19036	73253	0.896	1.431 #
8)	m	2,4,5-TP ...	10.250	10.110	6208	8110	0.066	0.040m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

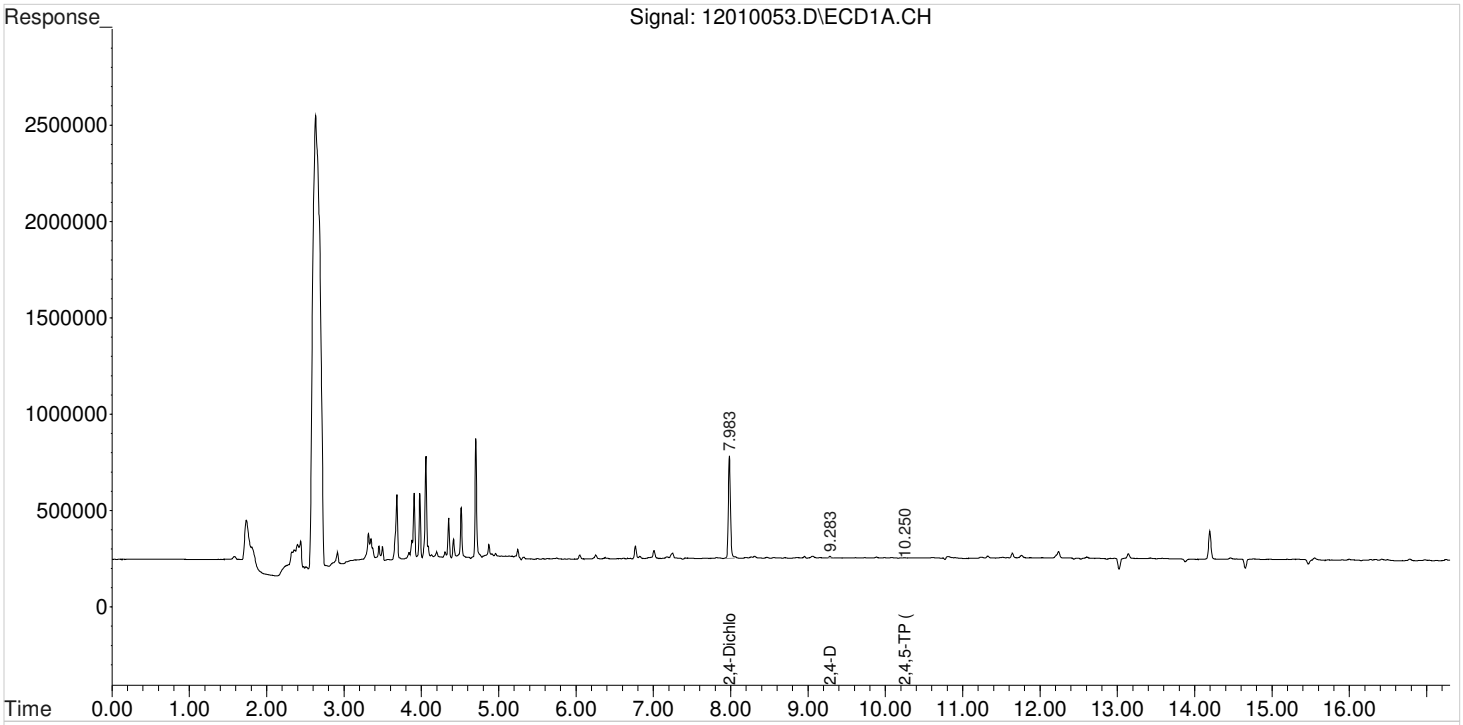
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

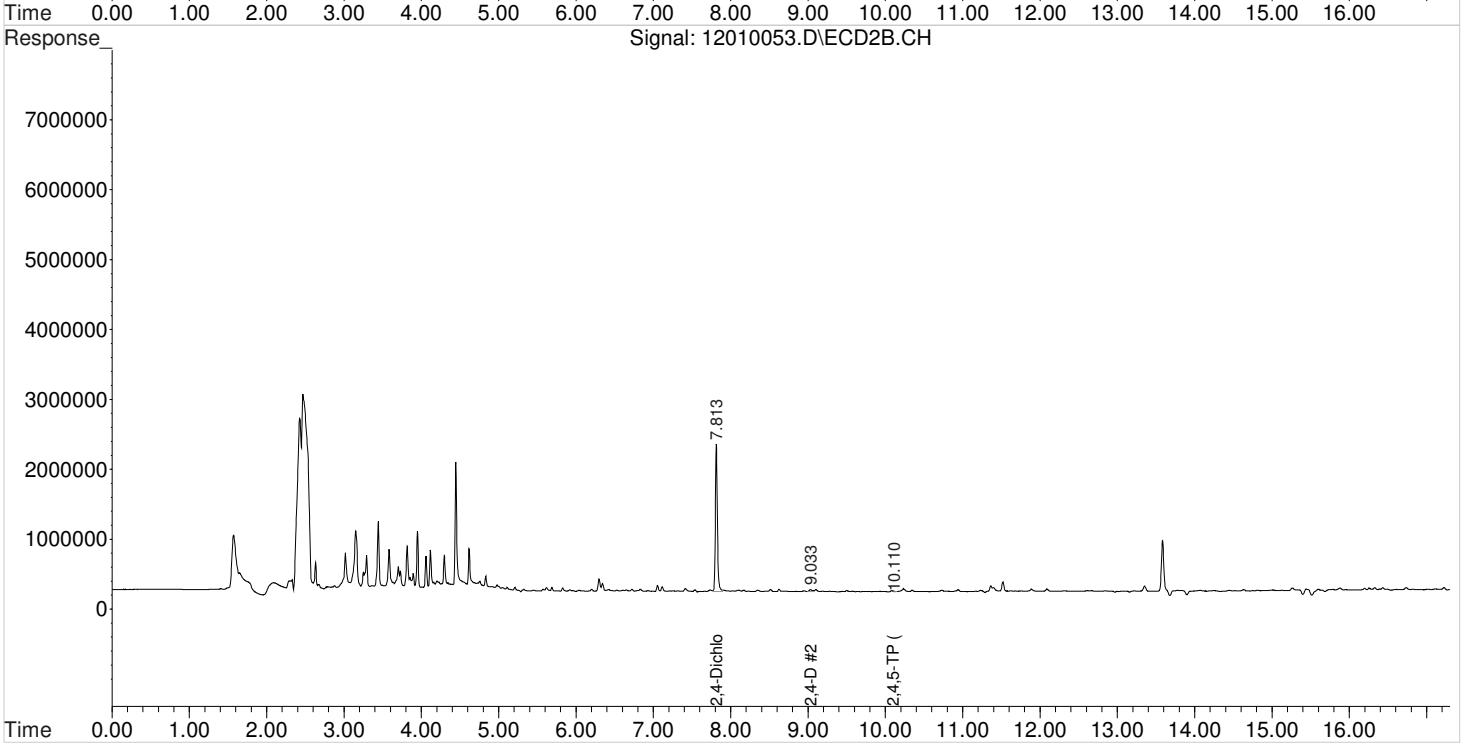
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:14:57 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



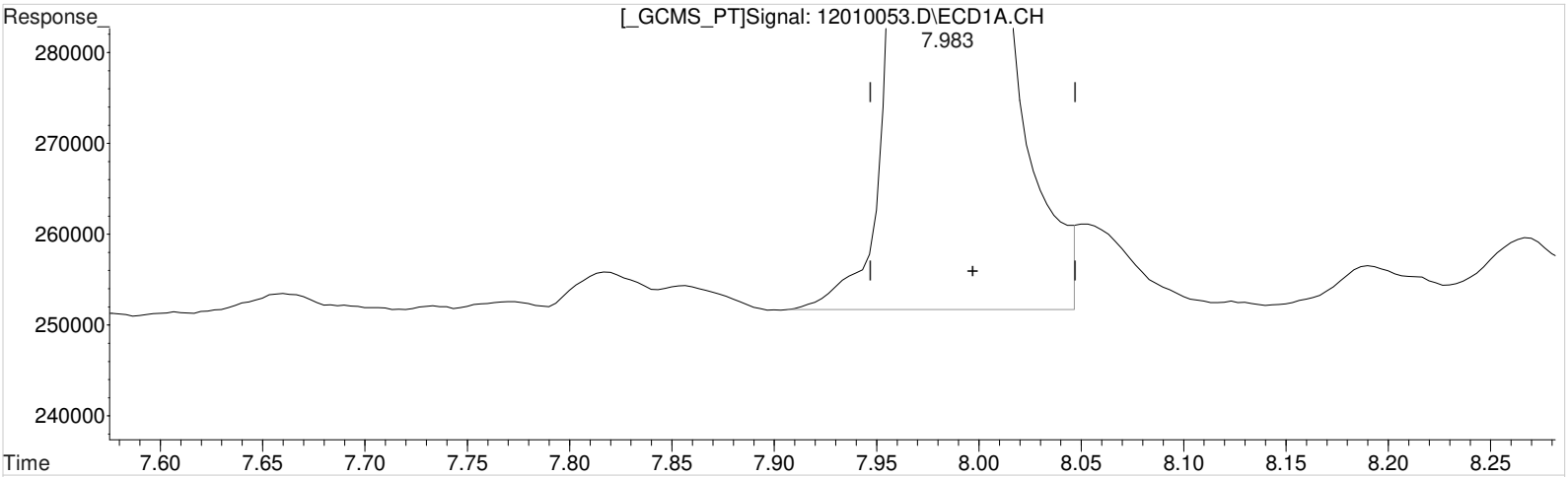


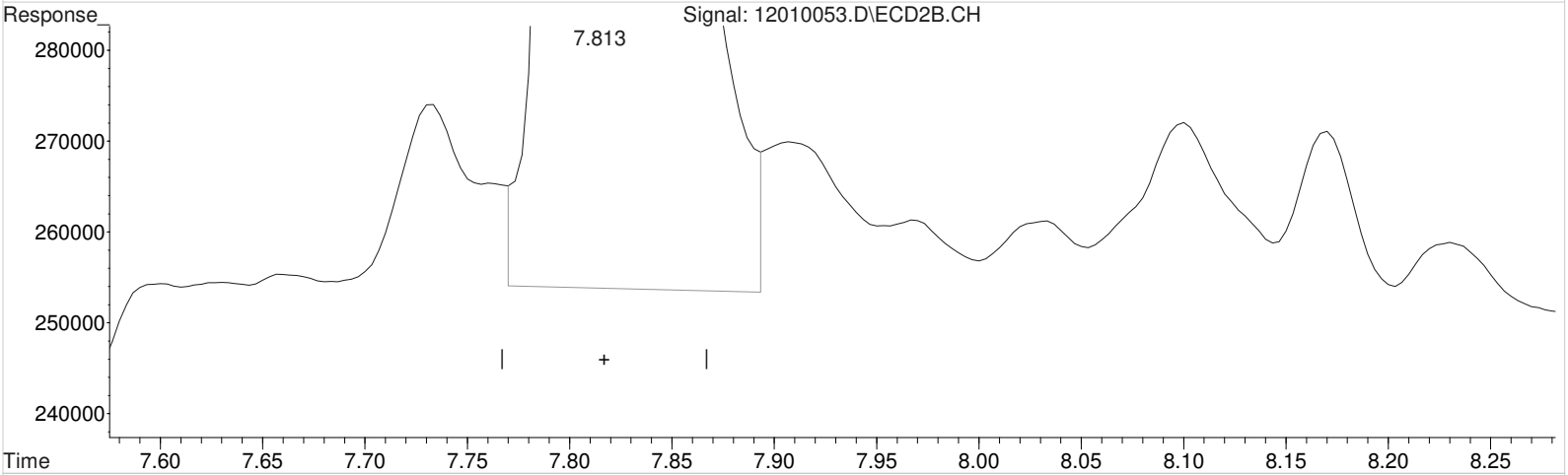
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:14 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





QEdit

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

7.983min 56.020 ppb

response 1019376

Manual Integration:

Before

12/02/20

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

7.813min 90.668 ppb

response 3835069

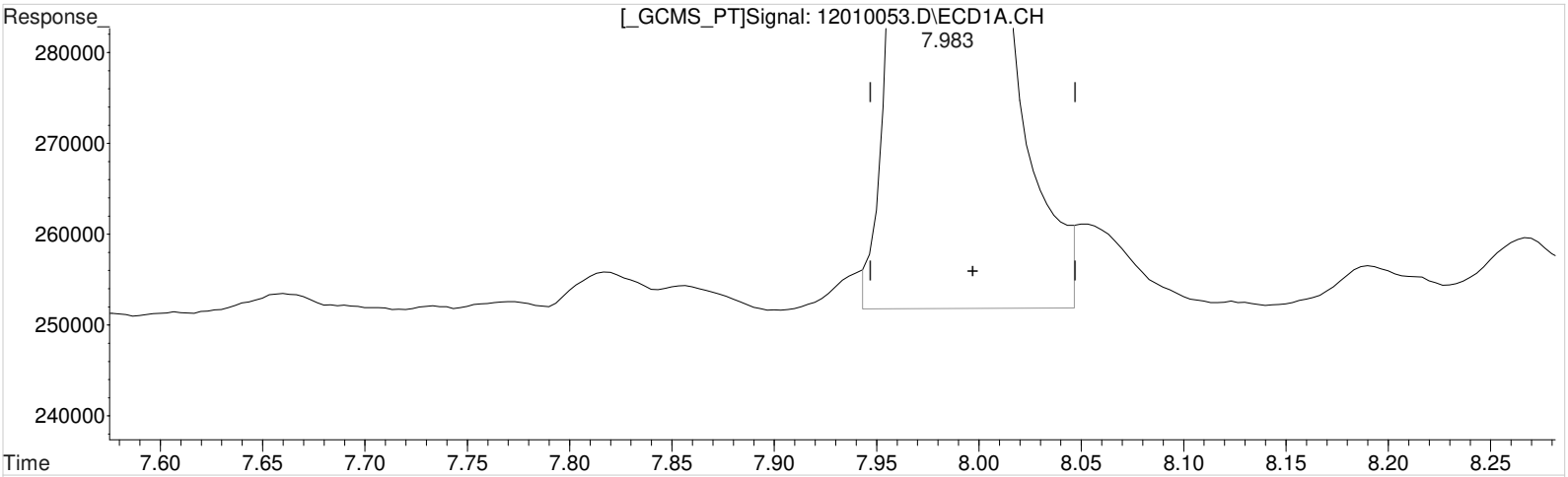
(+) = Expected Retention Time

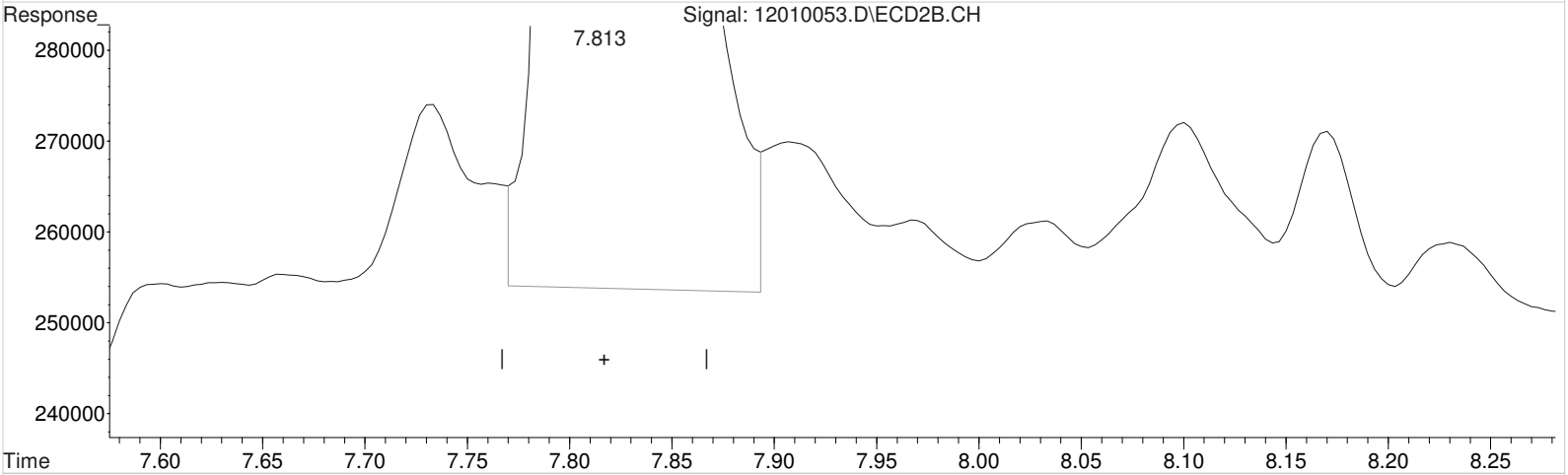
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:14 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





QEdit

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

7.983min 55.732 ppb m

response 1014135

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.813min 90.668 ppb

response 3835069

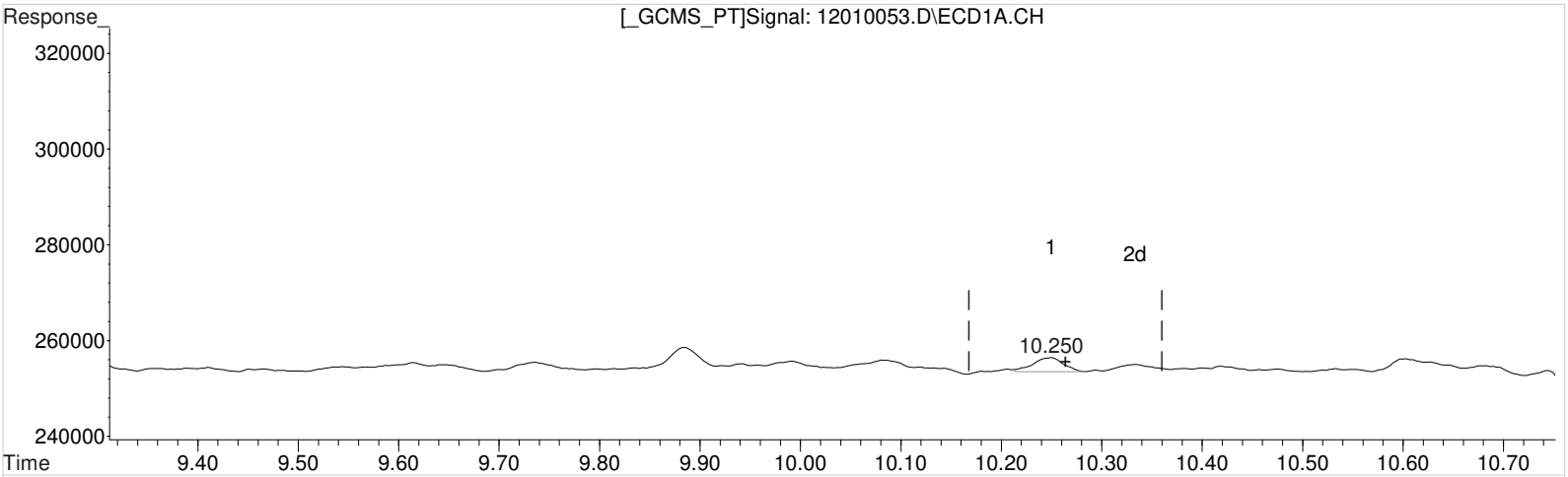
(+) = Expected Retention Time

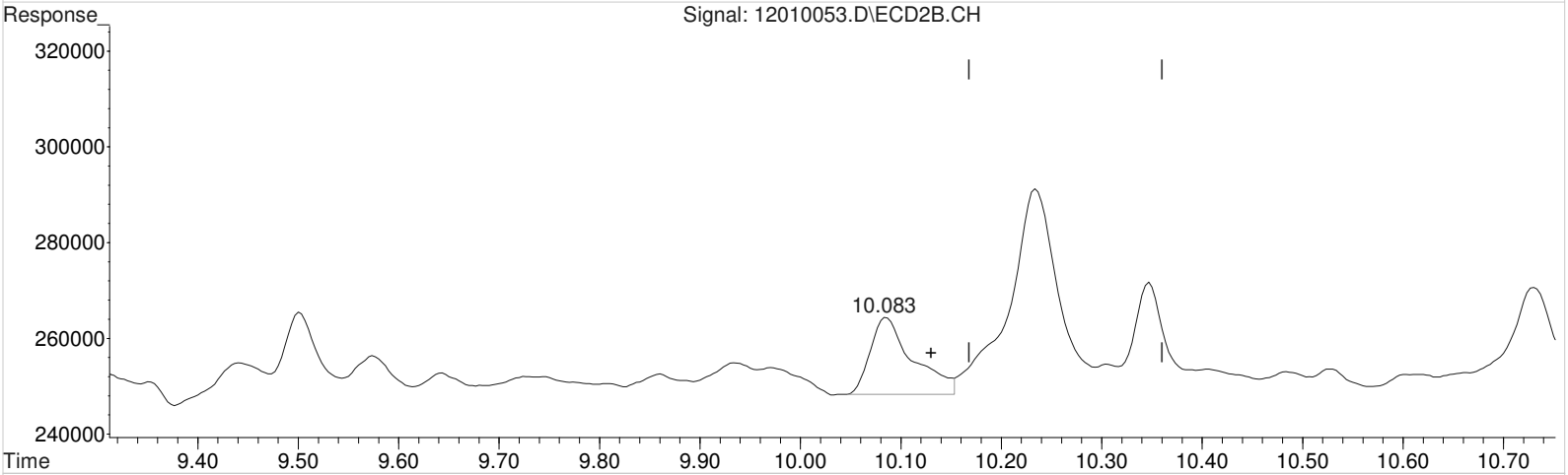
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:14 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 0.066 ppb

response 6208

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.083min 0.236 ppb

response 47849

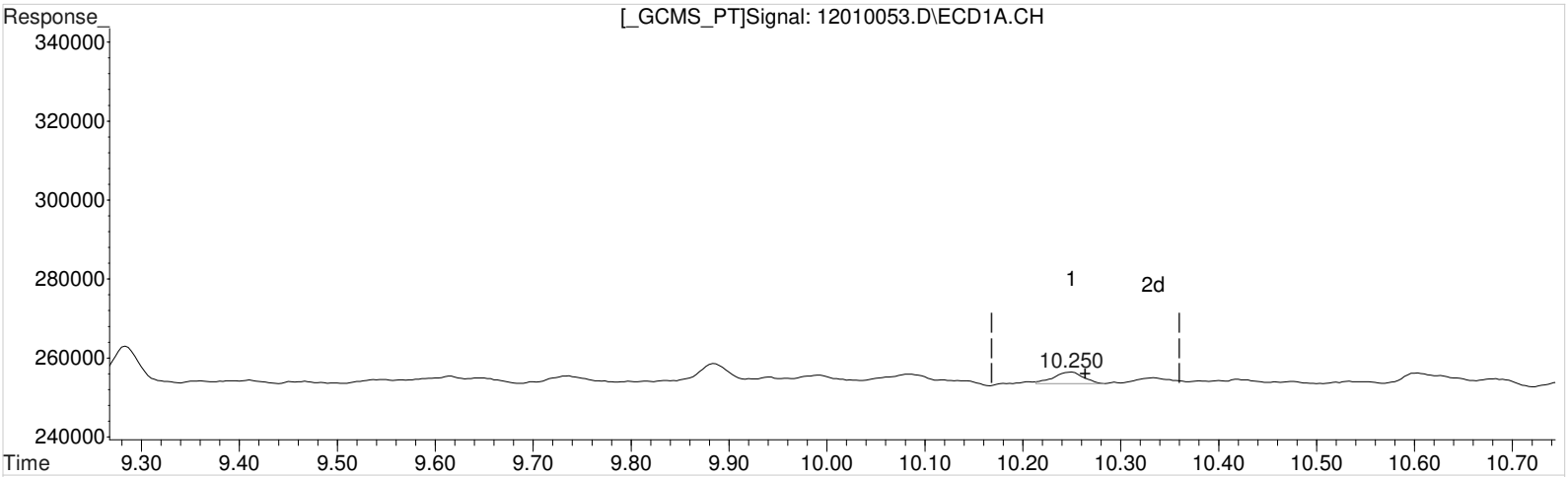
(+) = Expected Retention Time

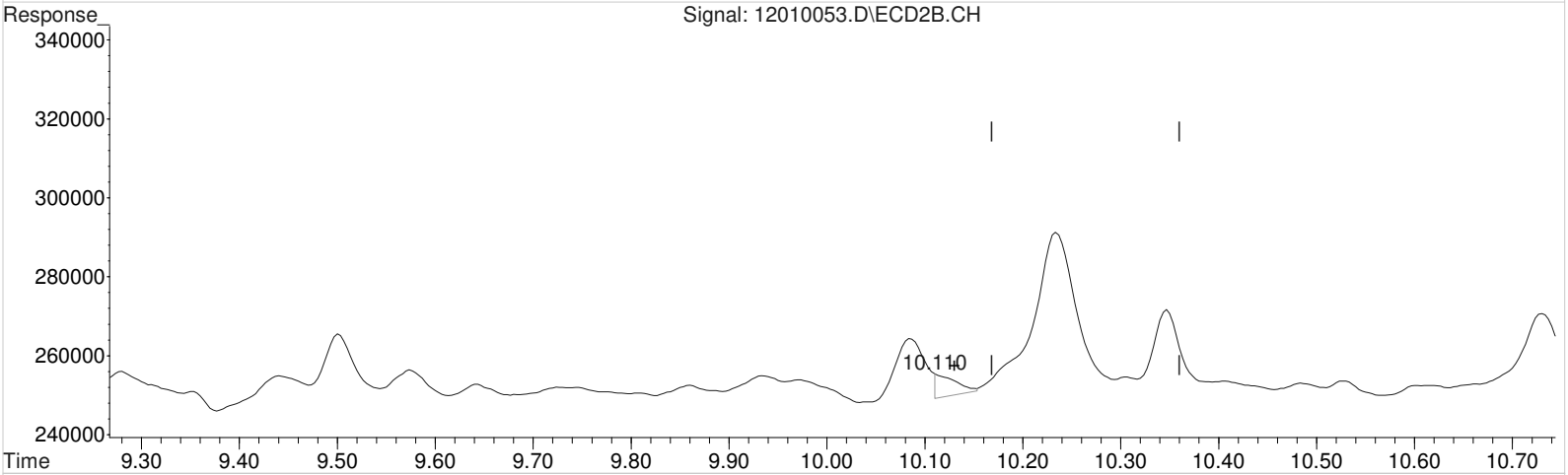
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010053.D Vial: 58
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:11 pm Operator: UA
Sample : K2010456-006 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:58:46 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 0.066 ppb

response 6208

Manual Integration:

After

Wrong Peak

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.110min 0.040 ppb m

response 8110

(+) = Expected Retention Time

1st UA 12/03/20
2nd 4W 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010054.D\
Lab ID: K2010456-007
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 13:33:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010054.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 13:33:00	**Vial:**	33
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-007	**Raw Units:**	ppb

Bottle ID:	K2010456-007.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	989167	3775648	54.360	89.263	54	89	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	10.24 -0.01	10.11 -0.02	5219	17301	0.056	0.085 CCV	0.14U	0.21U	3.5 U	Y
2,4-D	9.27 -0.04	9.03 -0.03	3423	57457	0.161	1.122	0.39U	2.7U	12 U	Y

Prep Amount:	30.072 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	68.70

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:01:44 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...	7.980	7.813	989167	3775648	54.360m	89.263m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.266f	9.030	3423	57457	0.161	1.122 #
8)	m	2,4,5-TP ...	10.243	10.106	5219	17301	0.056	0.085m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

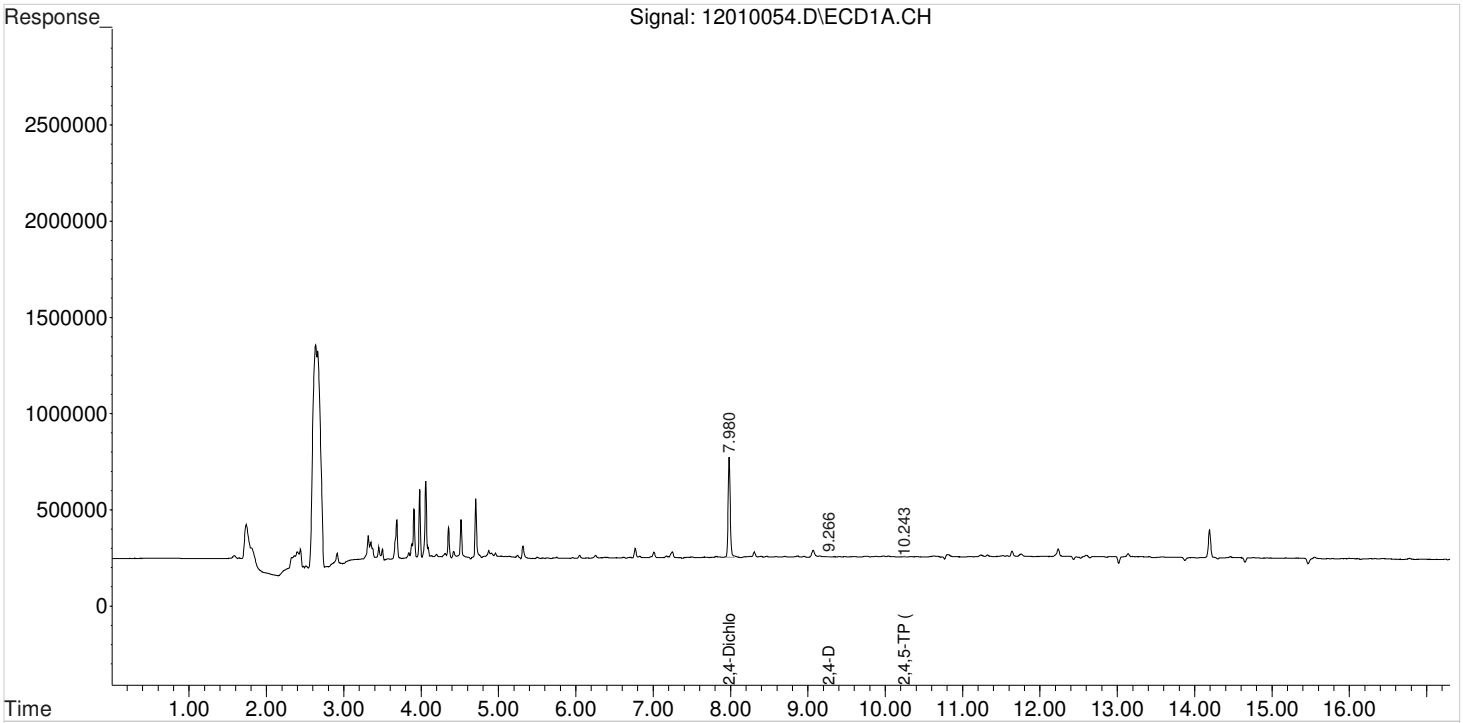
Quantitation Report (QT Reviewed)

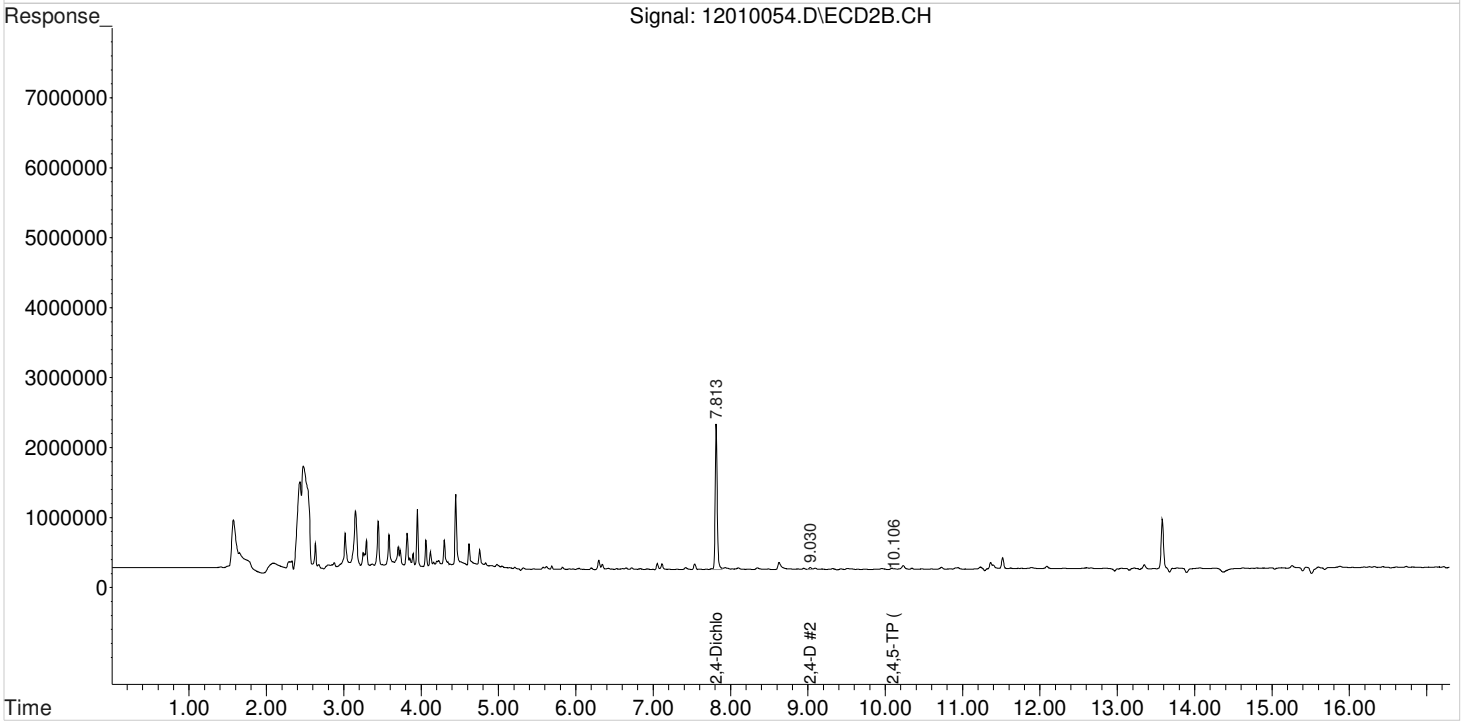
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:01:44 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





1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
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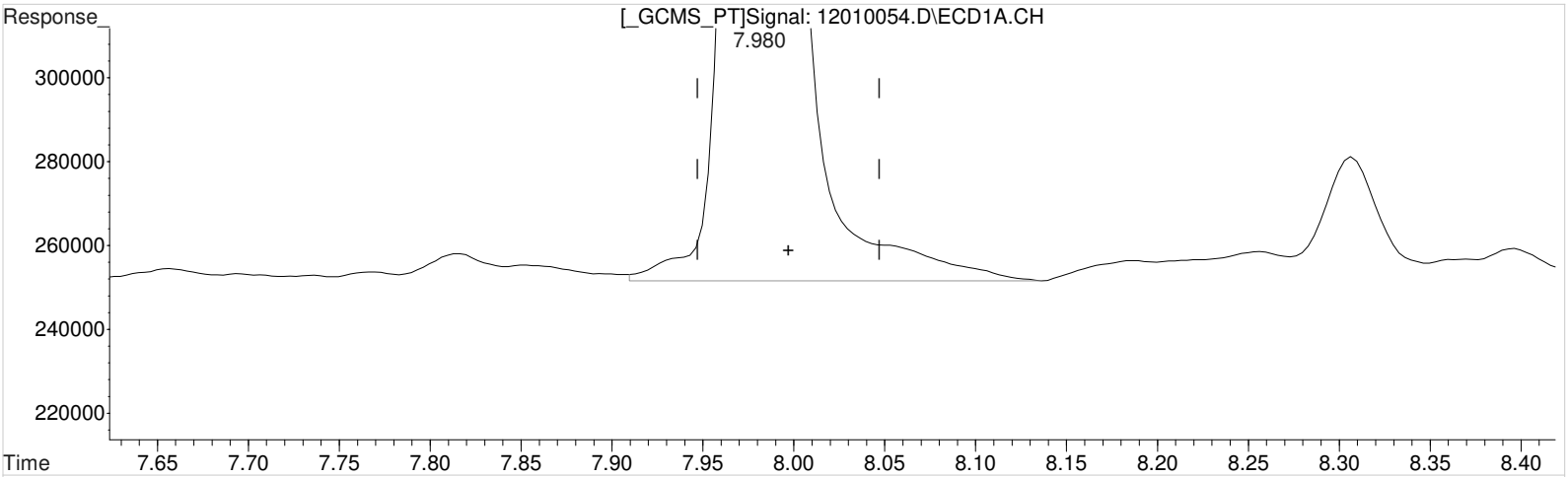
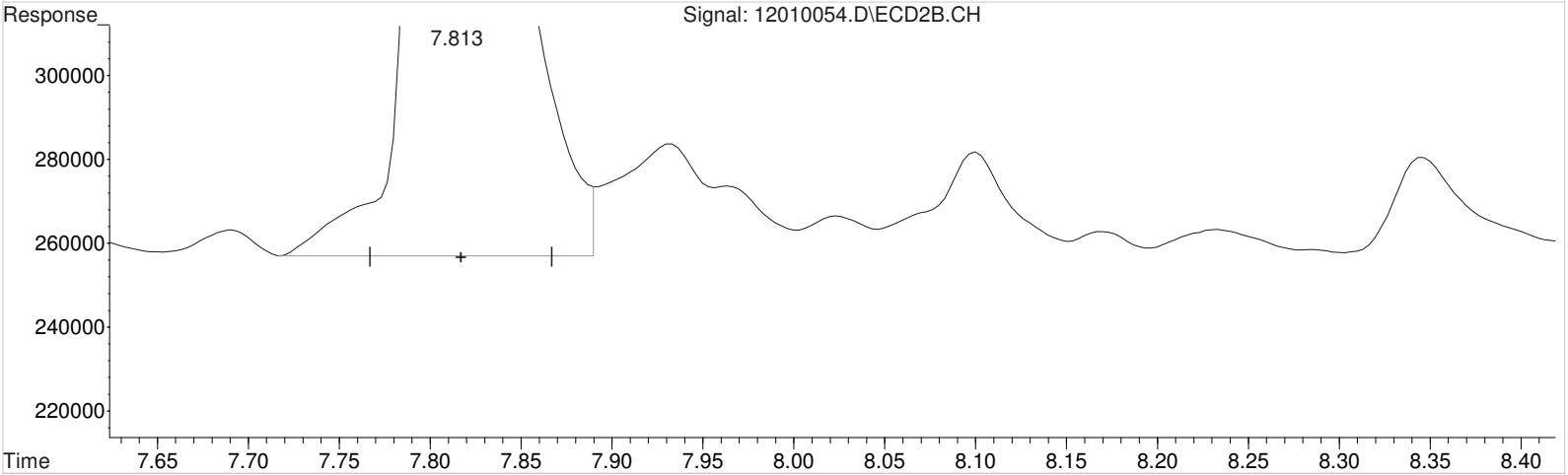
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.980min 56.379 ppb

response 1025898

Manual Integration:

Before

12/02/20

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

7.813min 89.822 ppb

response 3799296

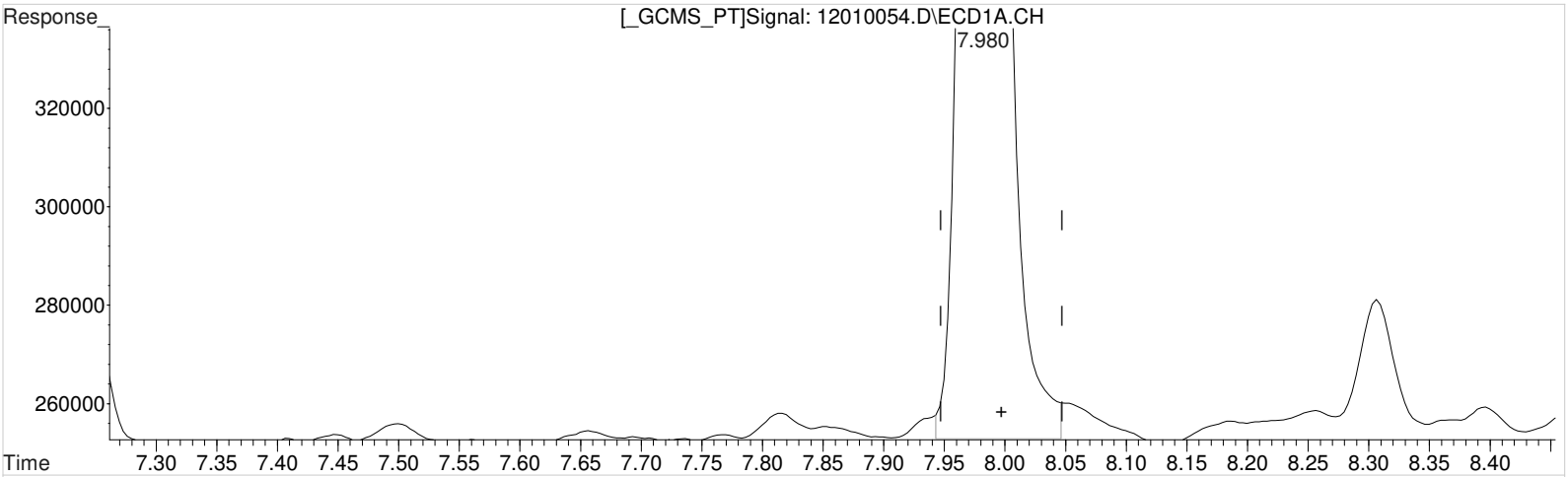
(+) = Expected Retention Time

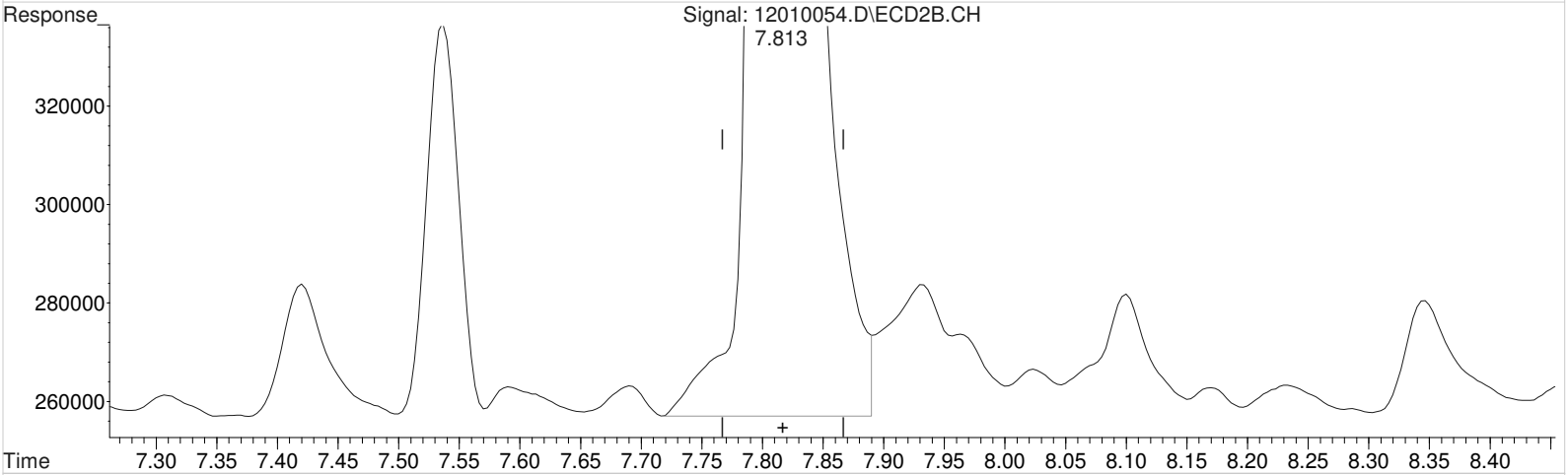
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:17 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





QEdit

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

7.980min 54.360 ppb m

response 989167

Manual Integration:

Before

12/02/20

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

7.813min 89.822 ppb

response 3799296

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:17 2020
Quant Results File: 102120_8151.RES

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QLast Update : Wed Oct 21 17:31:59 2020
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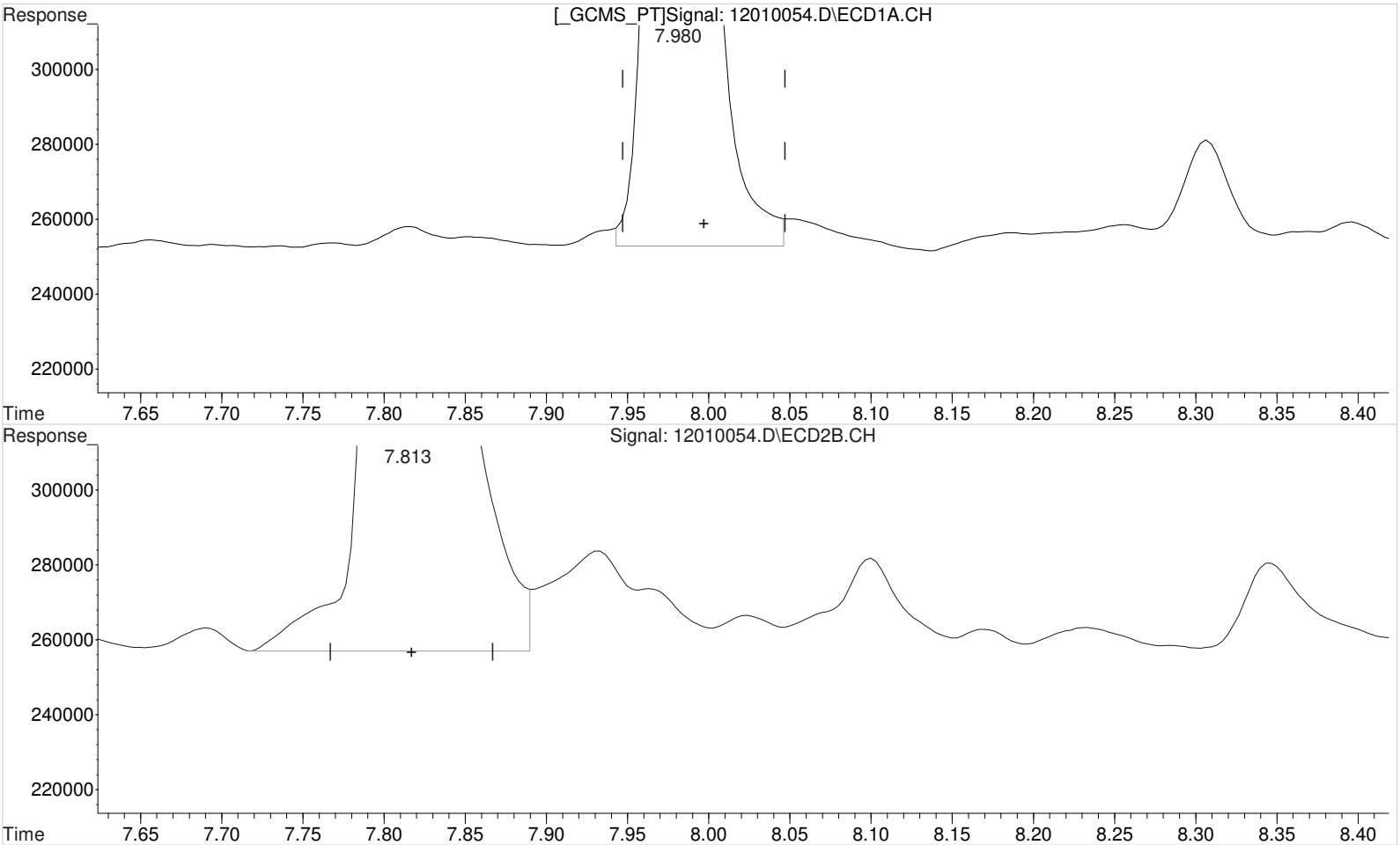
DataAcq Meth:8151A-17.M

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

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

7.980min 54.360 ppb m

response 989167

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.813min 89.822 ppb

response 3799296

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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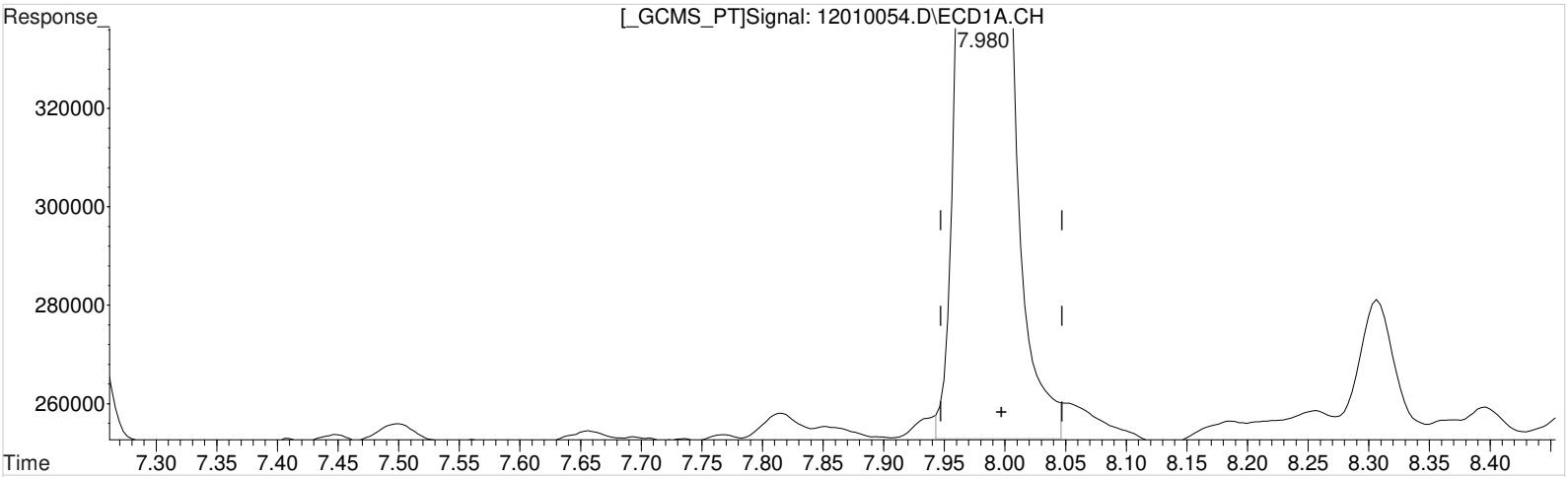
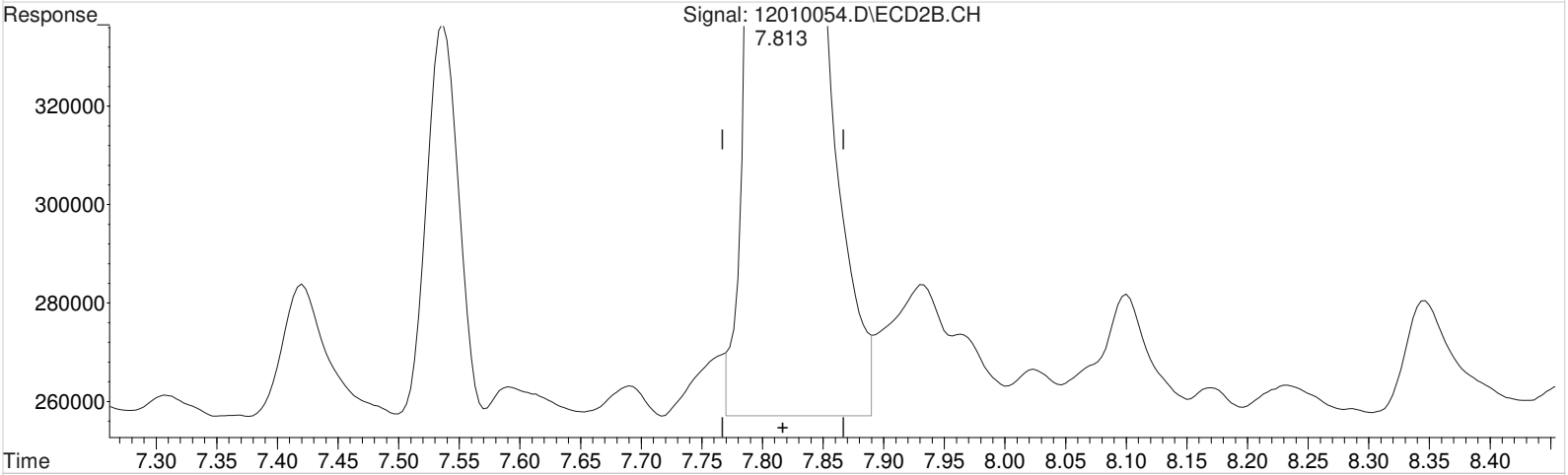
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.980min 54.360 ppb m

response 989167

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.813min 89.263 ppb m

response 3775648

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
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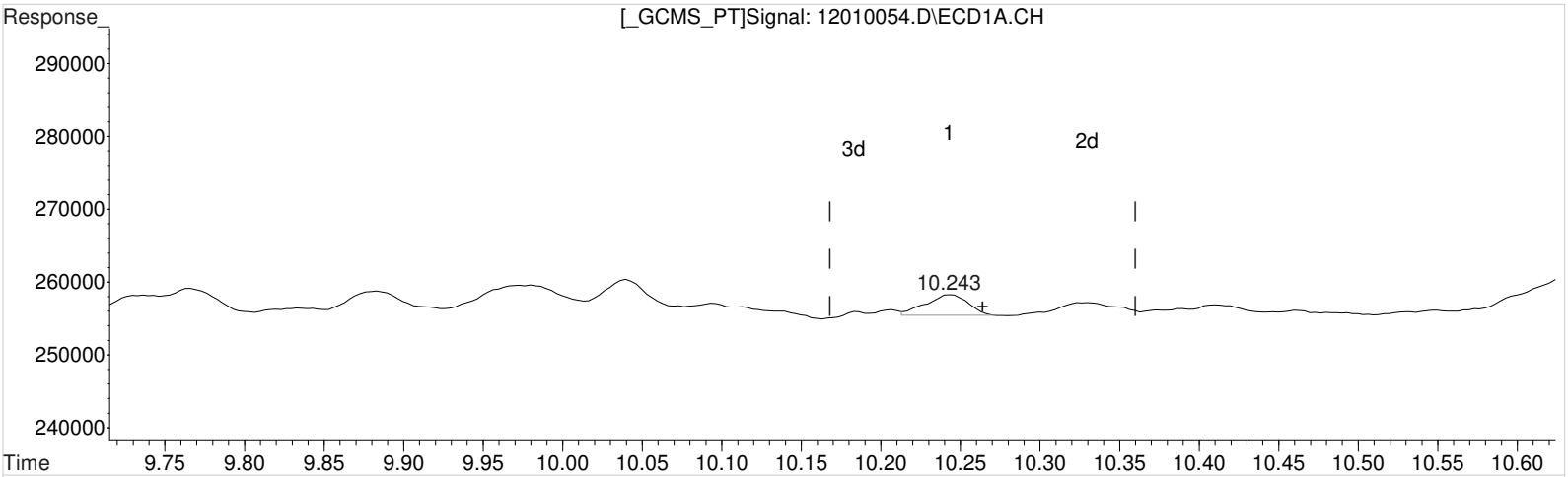
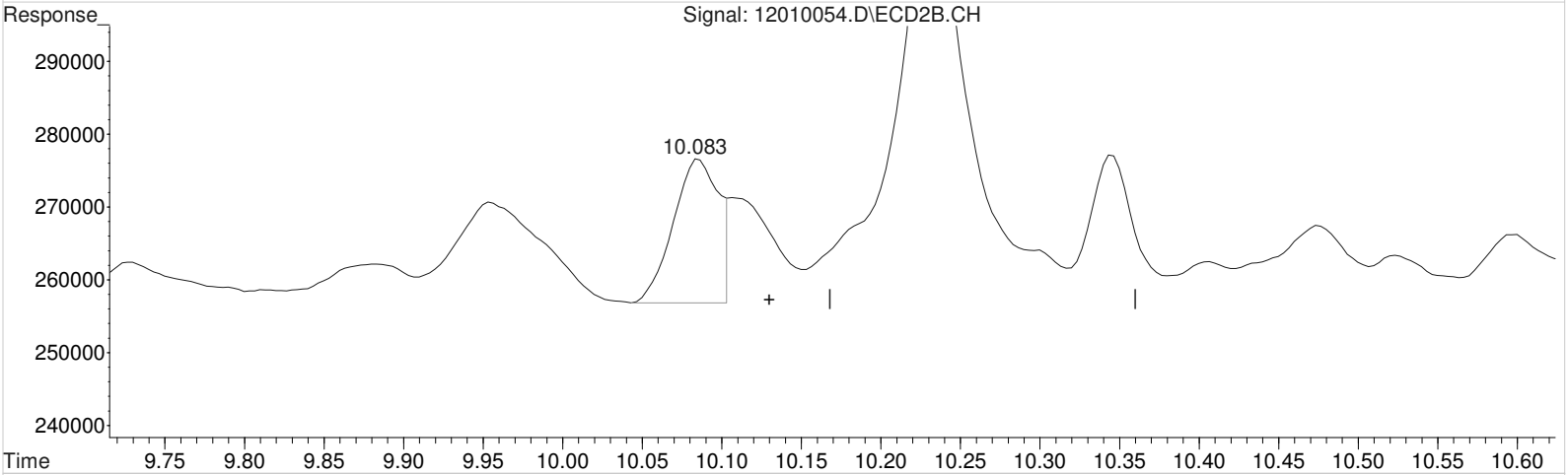
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.243min 0.056 ppb

response 5219

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.083min 0.201 ppb

response 40773

(+) = Expected Retention Time

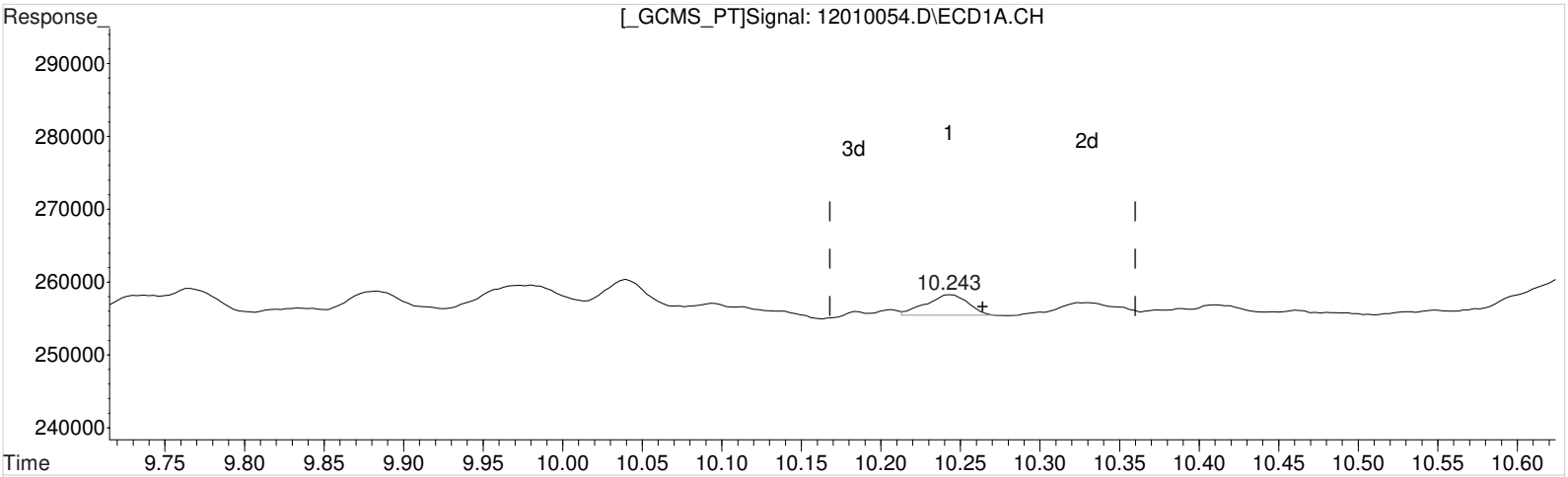
Quantitation Report (Qedit)

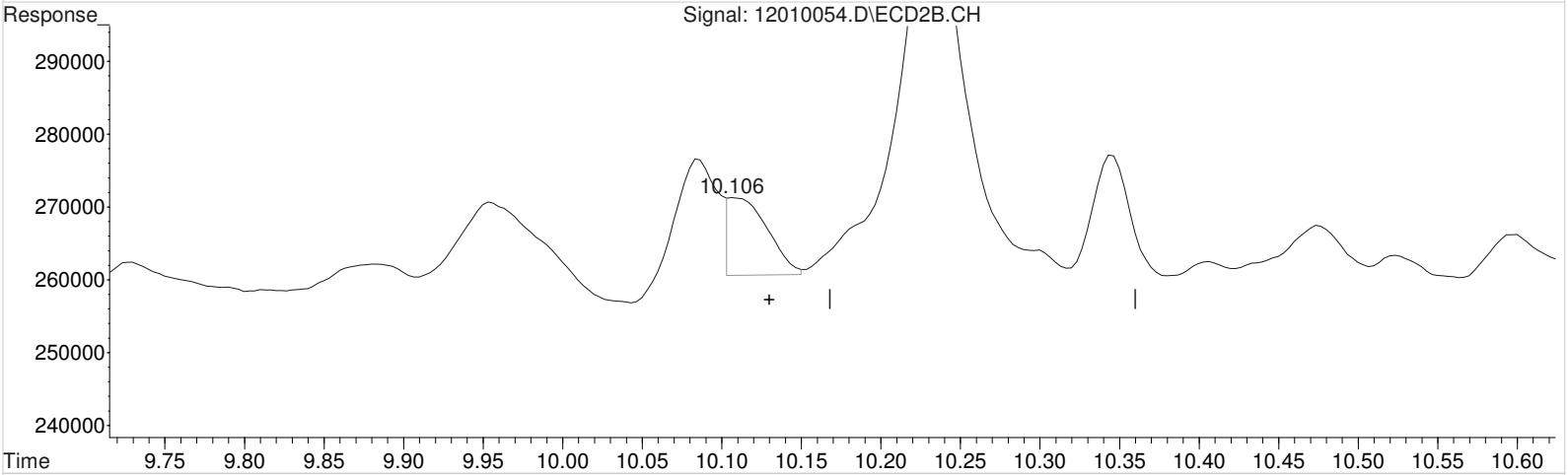
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010054.D Vial: 59
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:33 pm Operator: UA
Sample : K2010456-007 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:17 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.243min 0.056 ppb

response 5219

Manual Integration:

After

Wrong Peak

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.106min 0.085 ppb m

response 17301

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010055.D\
Lab ID: K2010456-008
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 13:56:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Printed: 12/3/20 17:23
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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010055.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 13:56:00	**Vial:**	34
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-008	**Raw Units:**	ppb

Bottle ID:	K2010456-008.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.82	943254	3690879	51.837	87.259	52	87	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	9434	31629	0.101	0.156 CCV	0.23U	0.35U	3.3 U	Y
2,4-D	9.32 +0.01	9.04 -0.02	1281	38424	0.060	0.750	0.13U	1.7U	11 U	Y

Prep Amount:	30.076 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	74.00

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: 12/3/20 17:23
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:03:52 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.984	7.818	943254	3690879	51.837m	87.259m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.324	9.038	1281	38424	0.060	0.750 #
8) m	2,4,5-TP ...	10.251	10.128	9434	31629	0.101	0.156 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

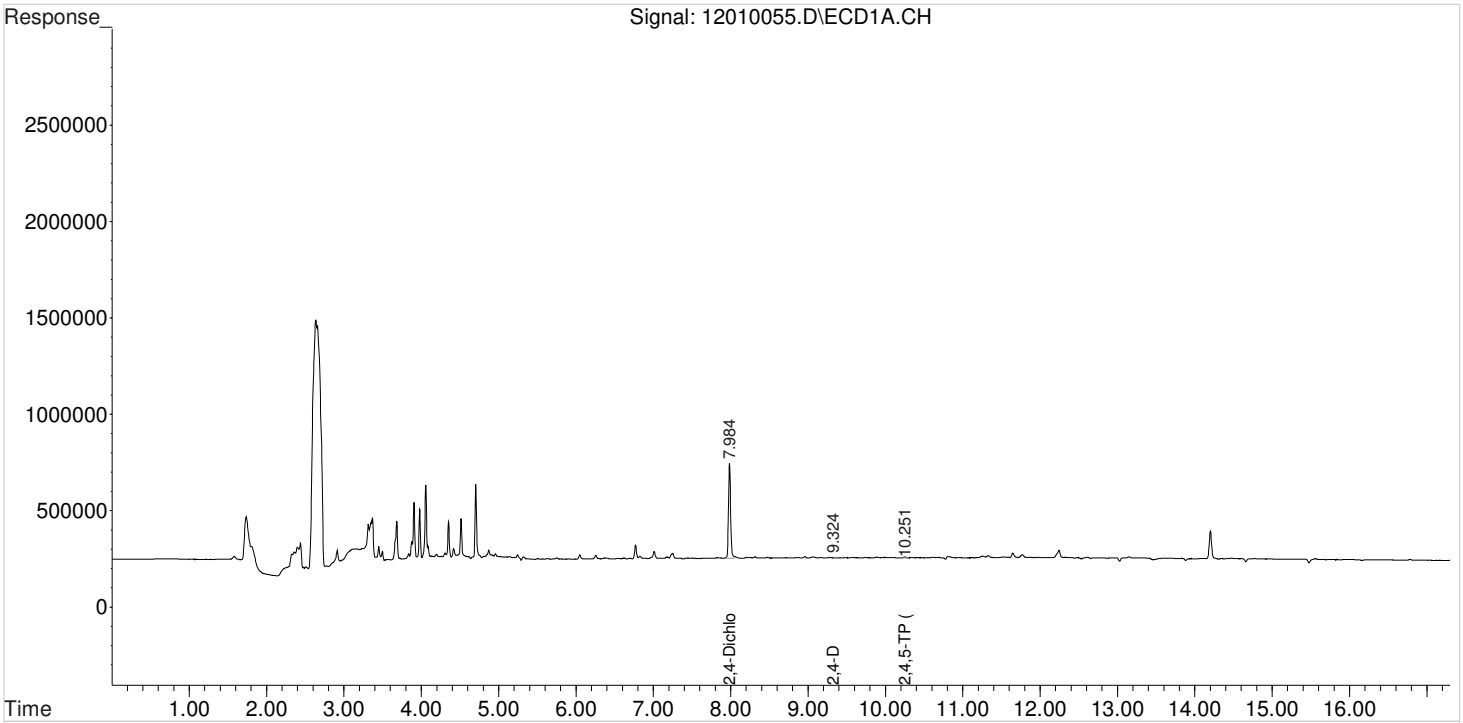
Quantitation Report (QT Reviewed)

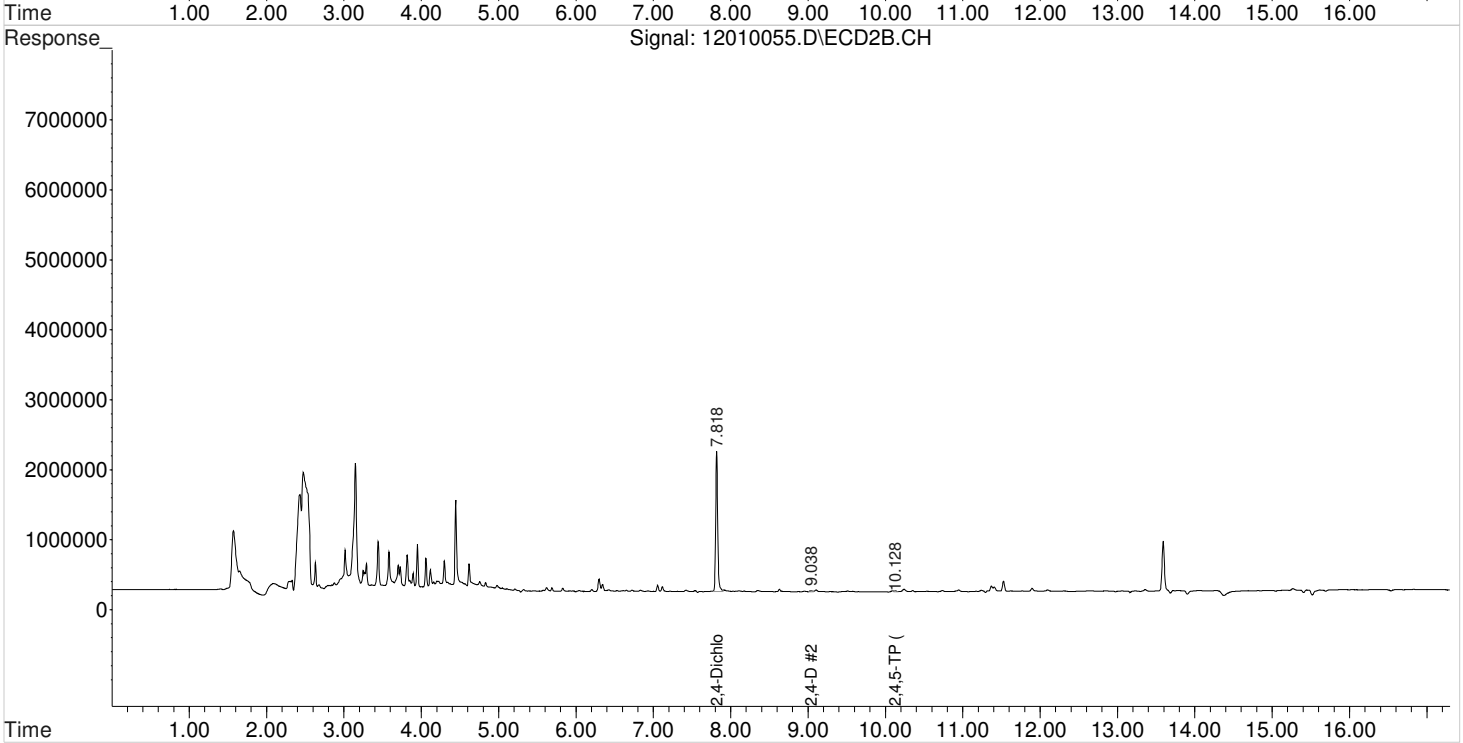
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:03:52 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





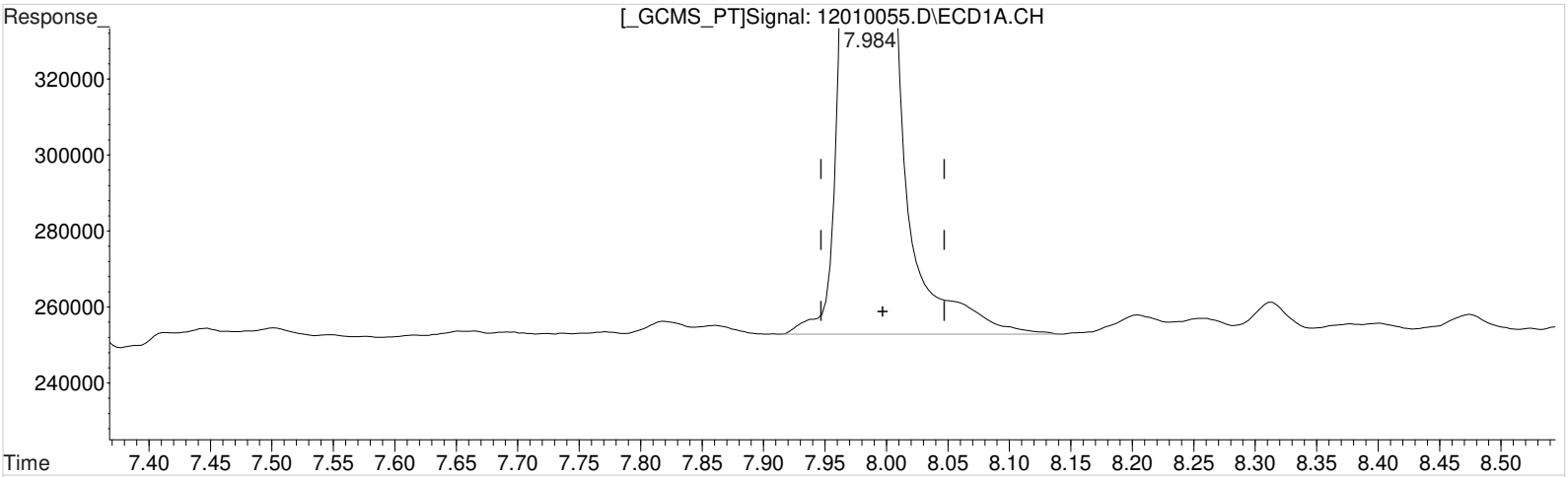
Quantitation Report (Qedit)

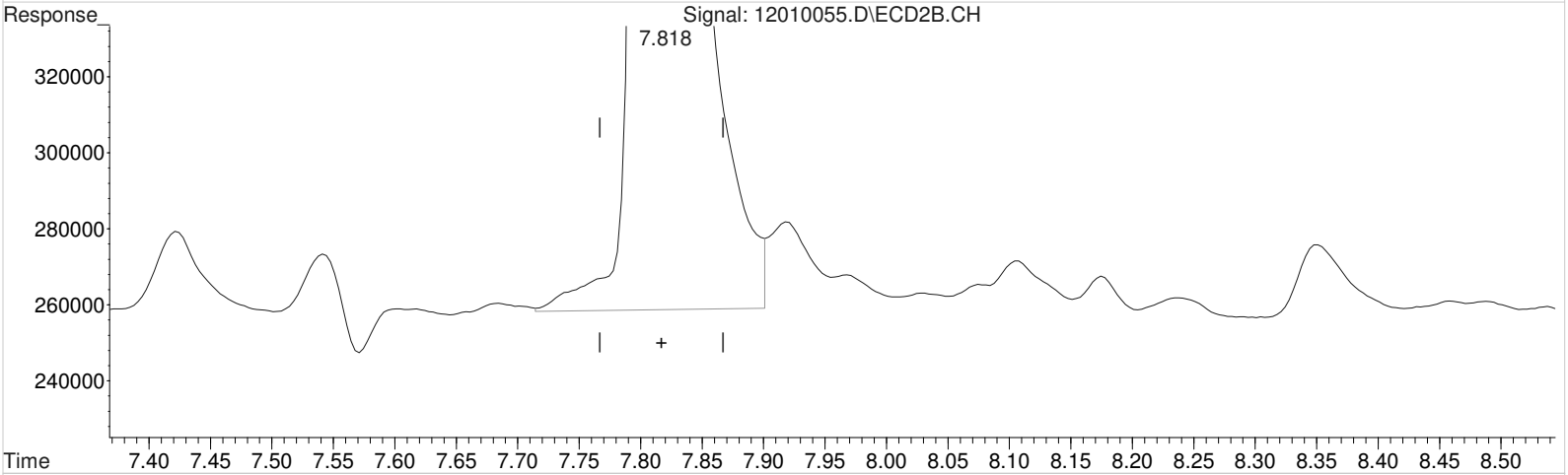
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:21 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 17:31:59 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





QEdit

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

7.984min 53.197 ppb

response 968006

Manual Integration:

Before

12/02/20

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

7.818min 87.719 ppb

response 3710330

(+) = Expected Retention Time

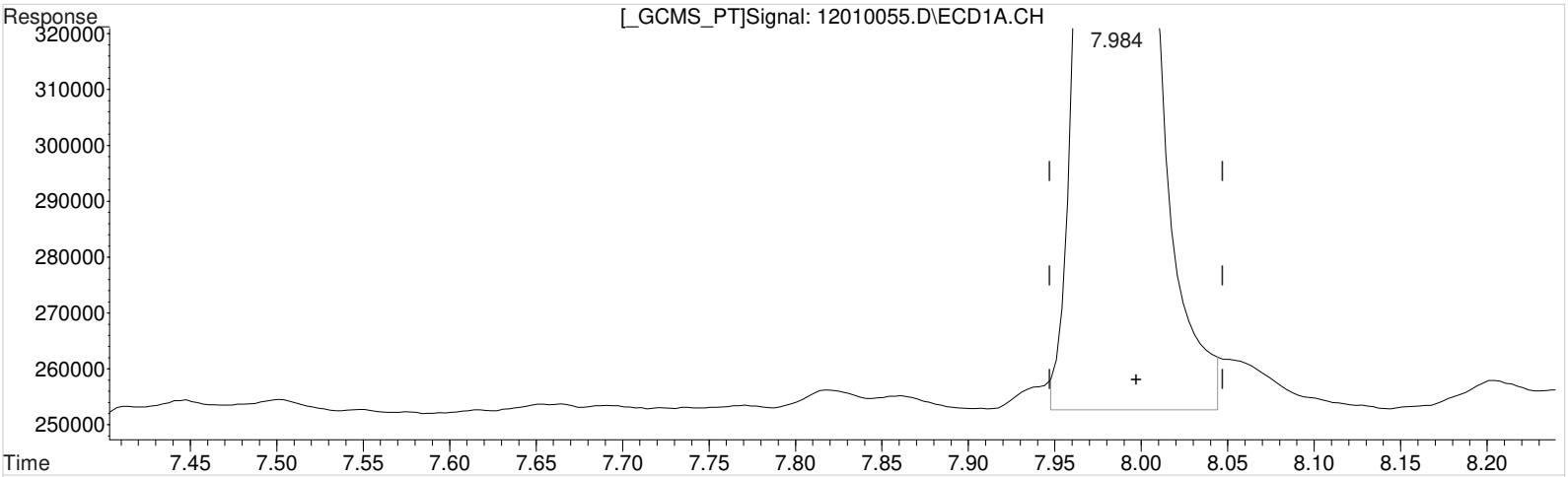
Quantitation Report (Qedit)

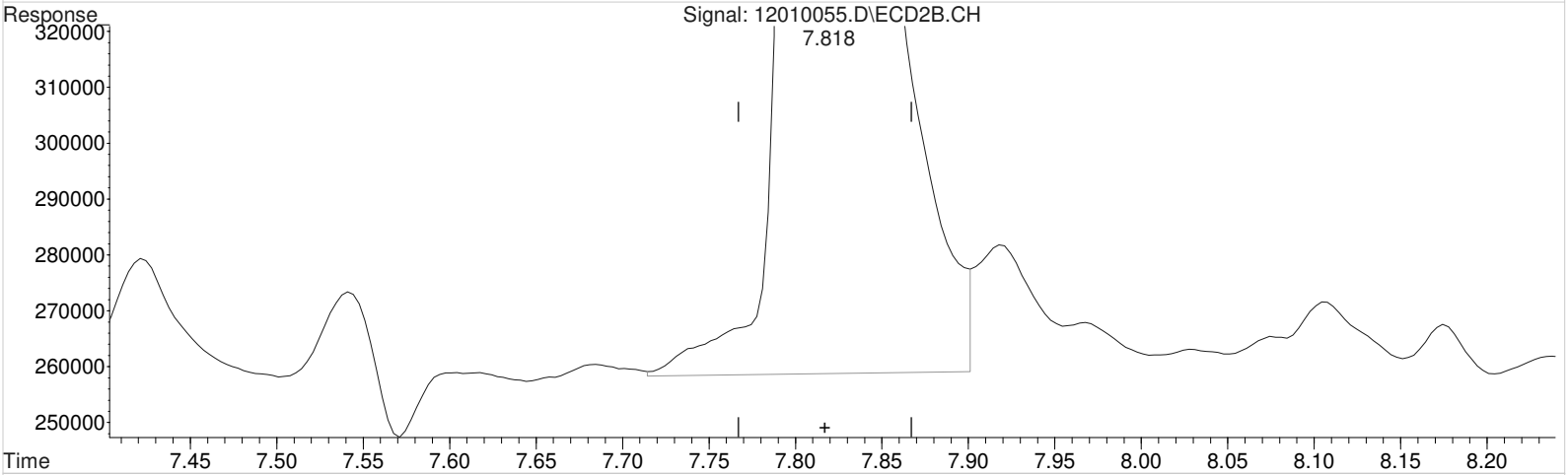
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:21 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 17:31:59 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





QEdit

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

7.984min 51.837 ppb m

response 943254

Manual Integration:

Before

12/02/20

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

7.818min 87.719 ppb

response 3710330

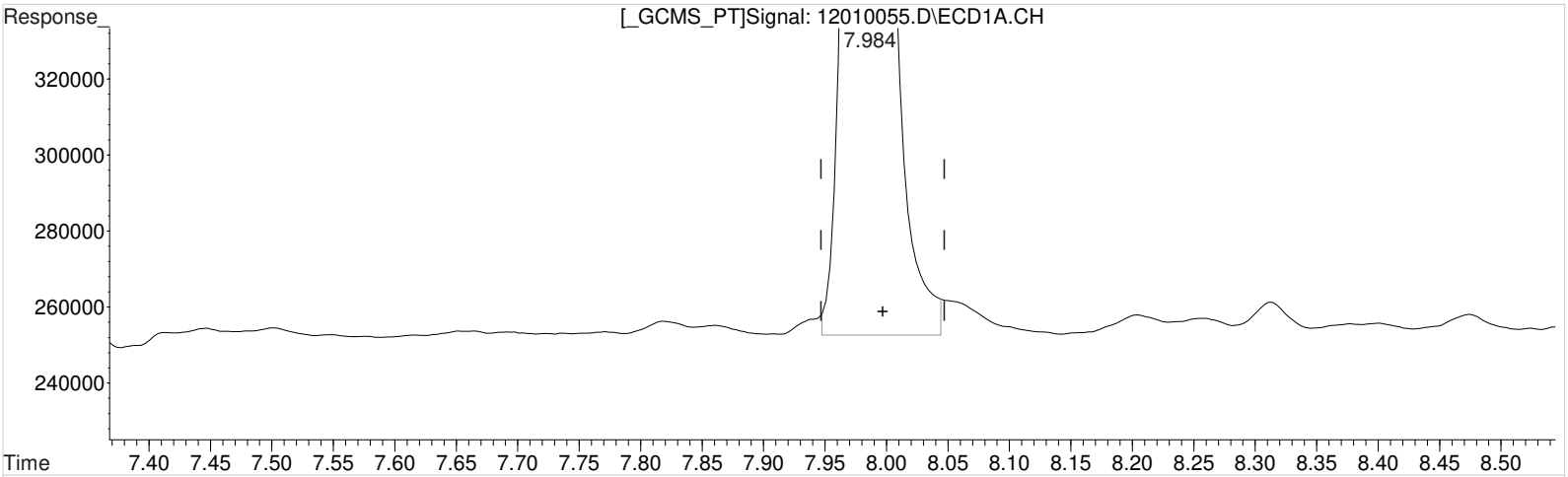
(+) = Expected Retention Time

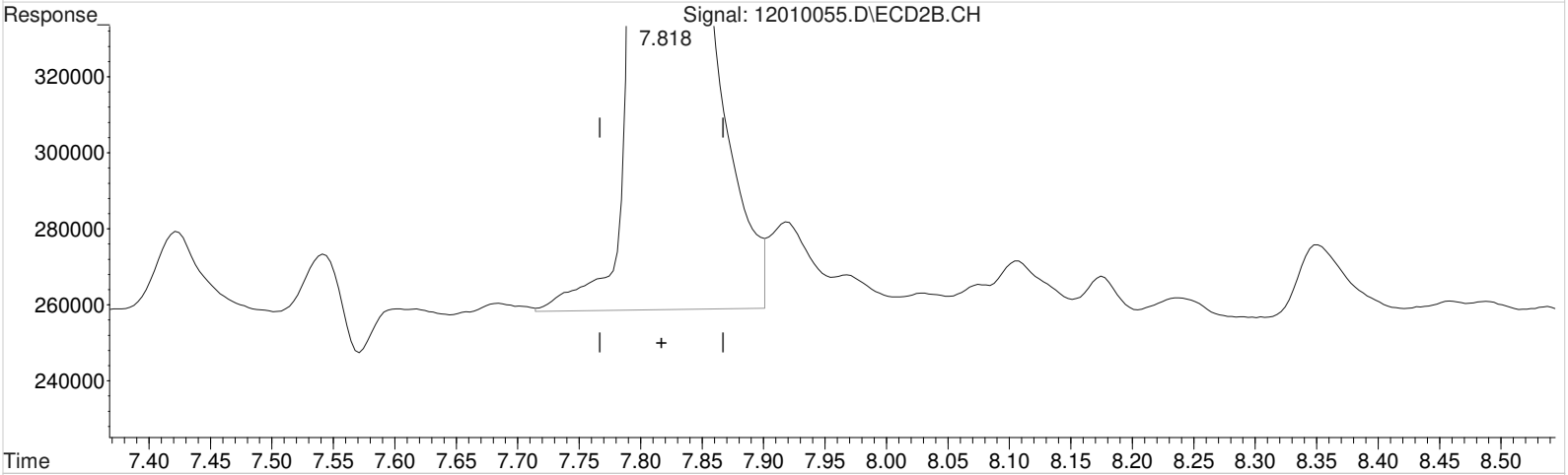
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:21 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 17:31:59 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





QEdit

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

7.984min 51.837 ppb m

response 943254

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.818min 87.719 ppb

response 3710330

(+) = Expected Retention Time

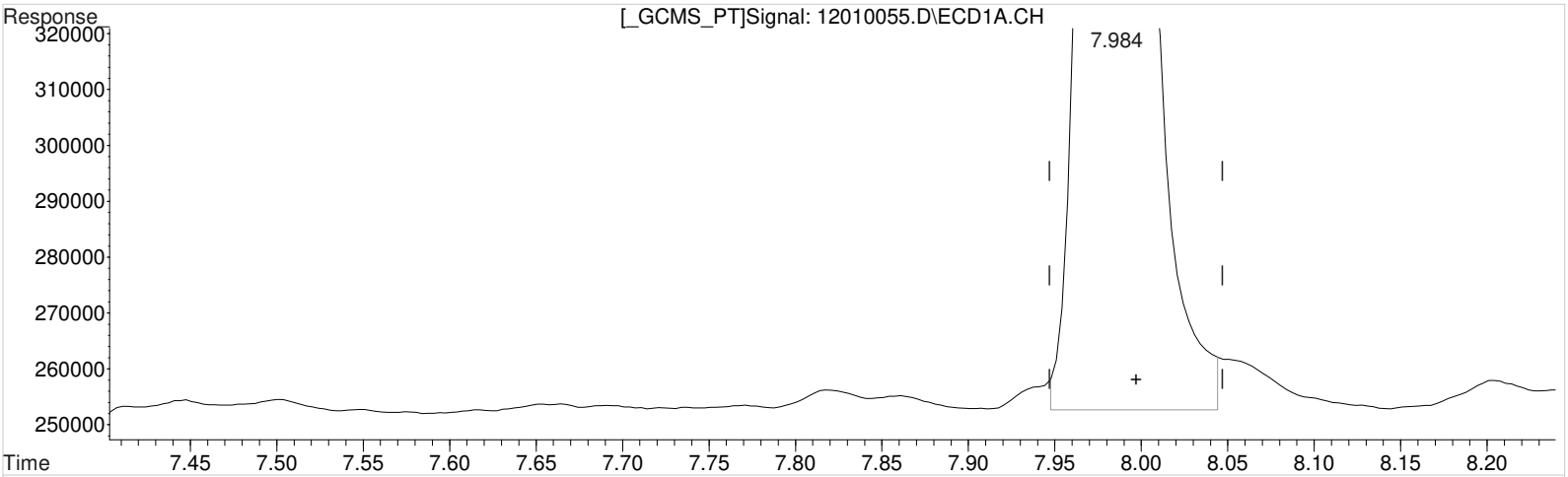
Quantitation Report (Qedit)

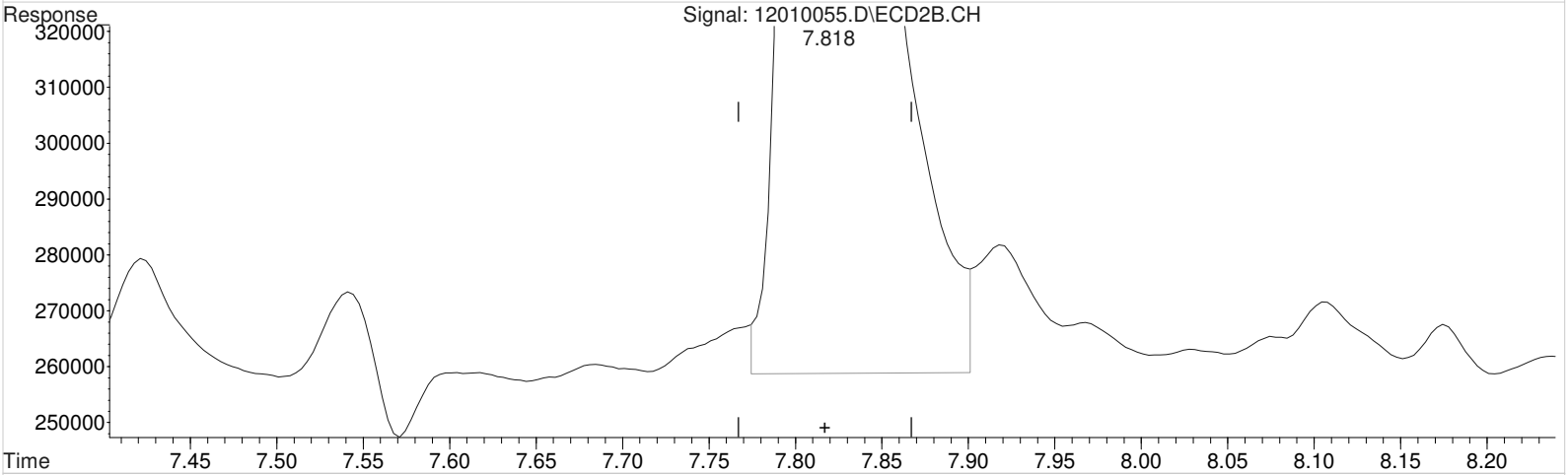
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010055.D Vial: 60
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 1:56 pm Operator: UA
Sample : K2010456-008 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:21 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 17:31:59 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





QEdit

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

7.984min 51.837 ppb m

response 943254

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.818min 87.259 ppb m

response 3690879

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010056.D\
Lab ID: K2010456-009
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 14:19:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010056.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 14:19:00	**Vial:**	35
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-009	**Raw Units:**	ppb

Bottle ID:	K2010456-009.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	1157994	4431364	63.638	104.766	64	105	64	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	10.24 -0.01	10.08 -0.05	6443	214955	0.069	1.059 CCV	0.22U	3.4U	4.7 U	Y
2,4-D	9.33 +0.02	9.03 -0.03	5640	87633	0.266	1.712	0.86U	5.5U	15 U	Y

Prep Amount:	30.097 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	51.40

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

Printed: 12/3/20 17:23
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:19 pm Operator: UA
Sample : K2010456-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:06:37 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...	7.977	7.811	1157994	4431364	63.638m	104.766m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.334	9.027	5640	87633	0.266	1.712 #
8) m	2,4,5-TP ...	10.244	10.084	6443	214955	0.069	1.059 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

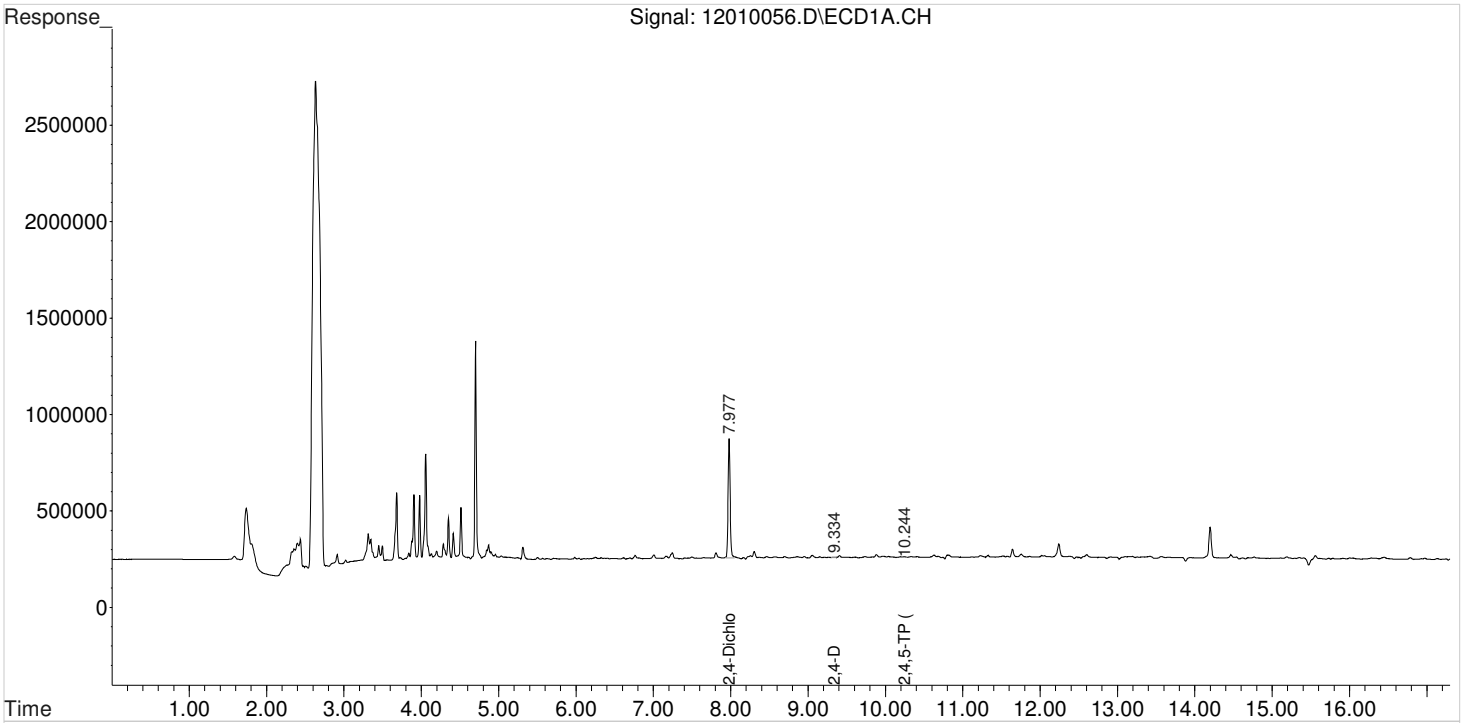
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

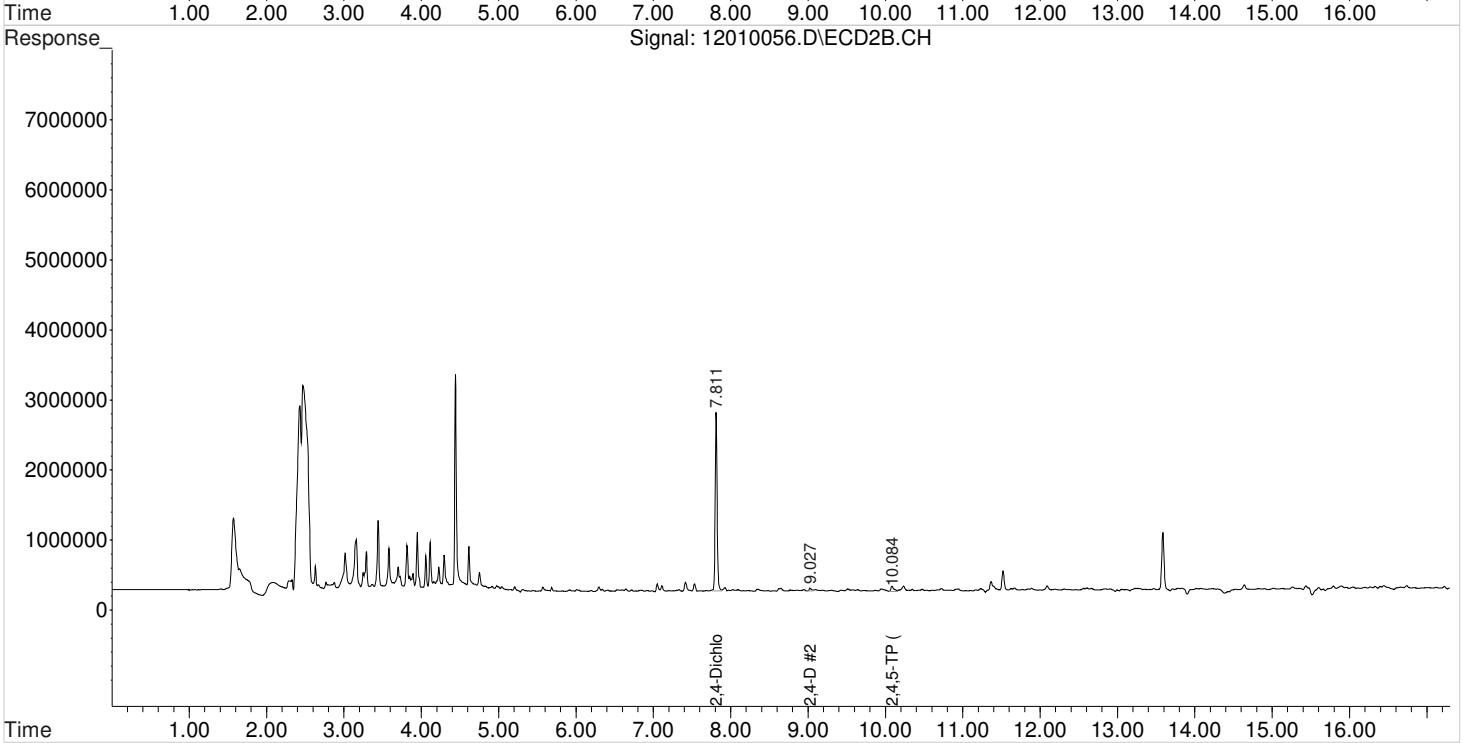
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:19 pm Operator: UA
Sample : K2010456-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:06:37 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



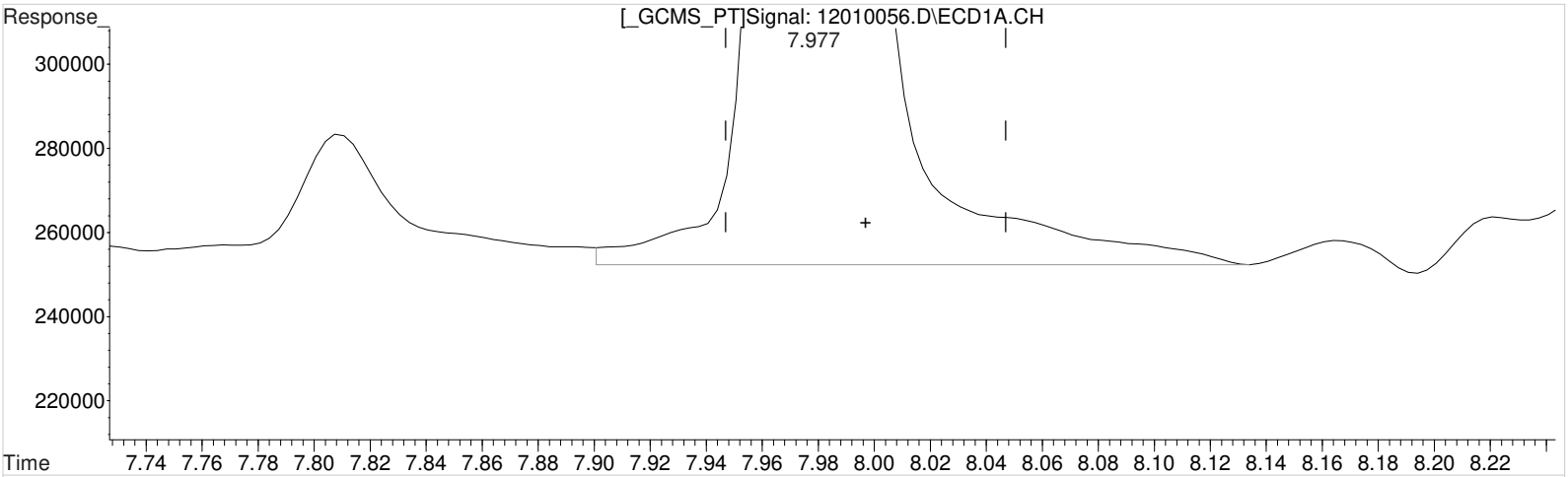


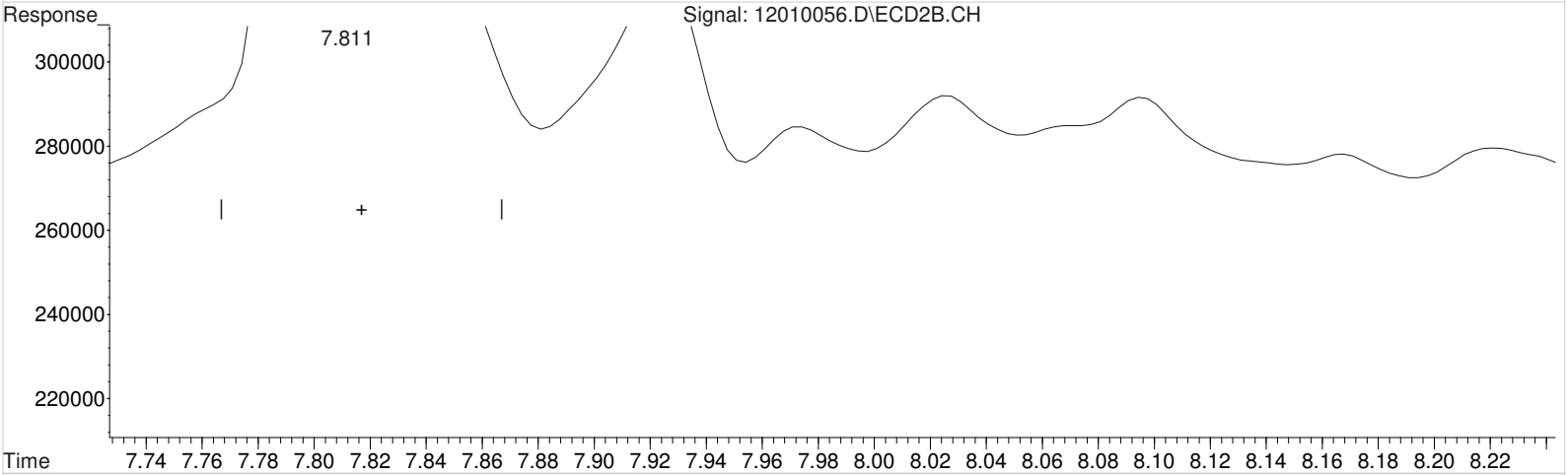
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:19 pm Operator: UA
Sample : K2010456-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:24 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





QEdit

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

7.977min 67.431 ppb

response 1227013

Manual Integration:

Before

12/02/20

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

7.811min 105.396 ppb

response 4458028

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:19 pm Operator: UA
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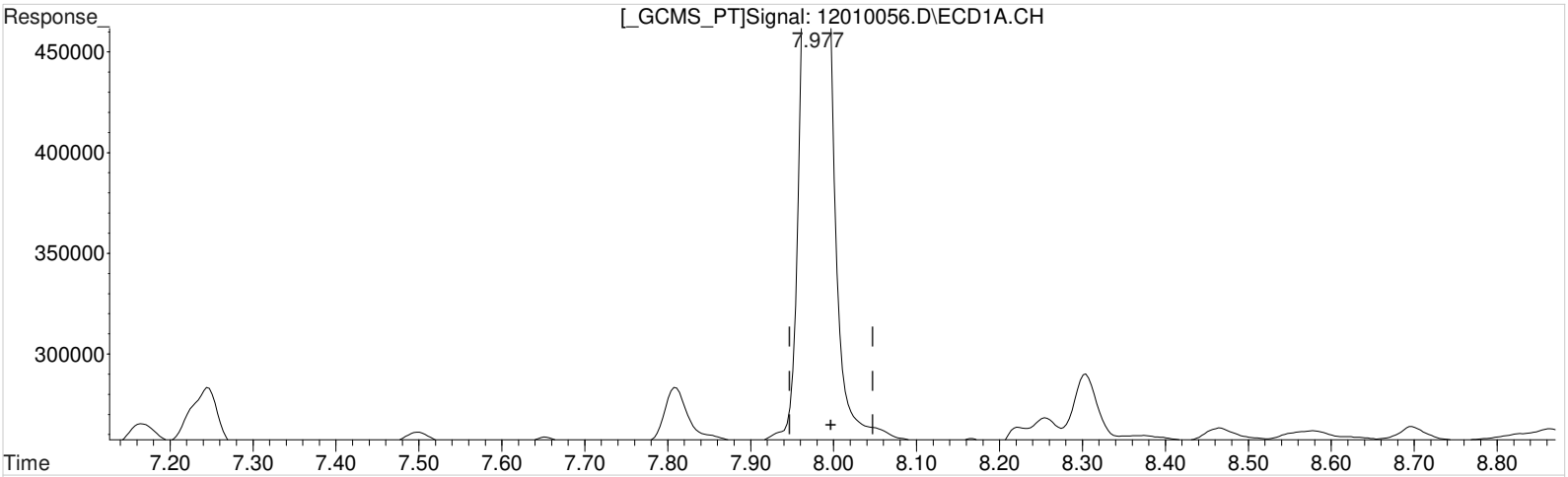
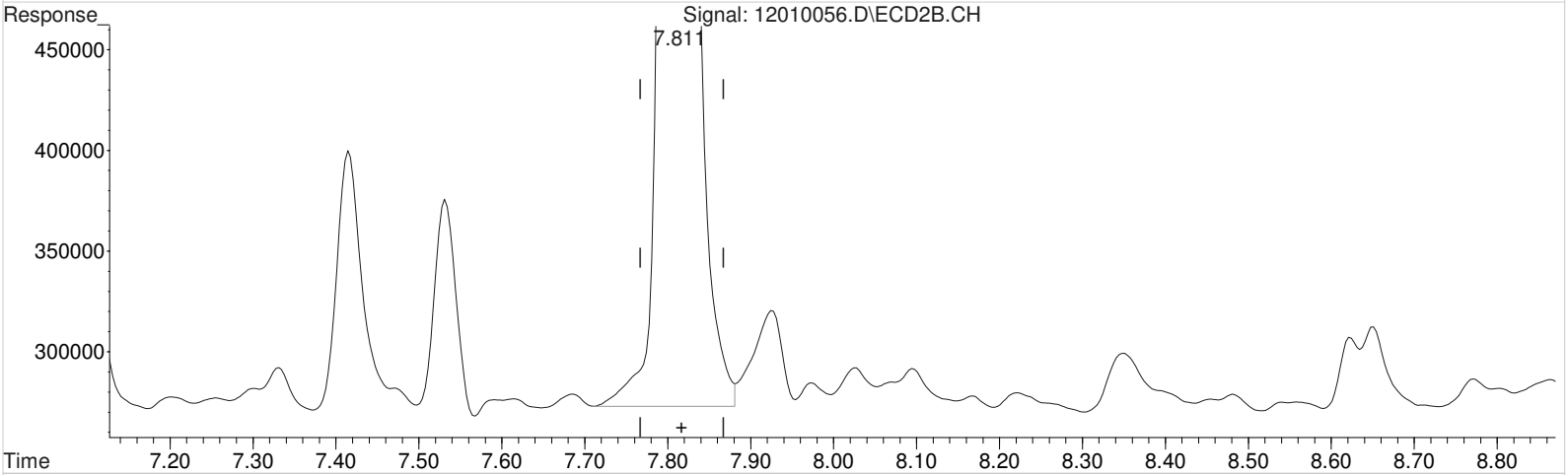
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.977min 63.638 ppb m

response 1157994

Manual Integration:

Before

12/02/20

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

7.811min 105.396 ppb

response 4458028

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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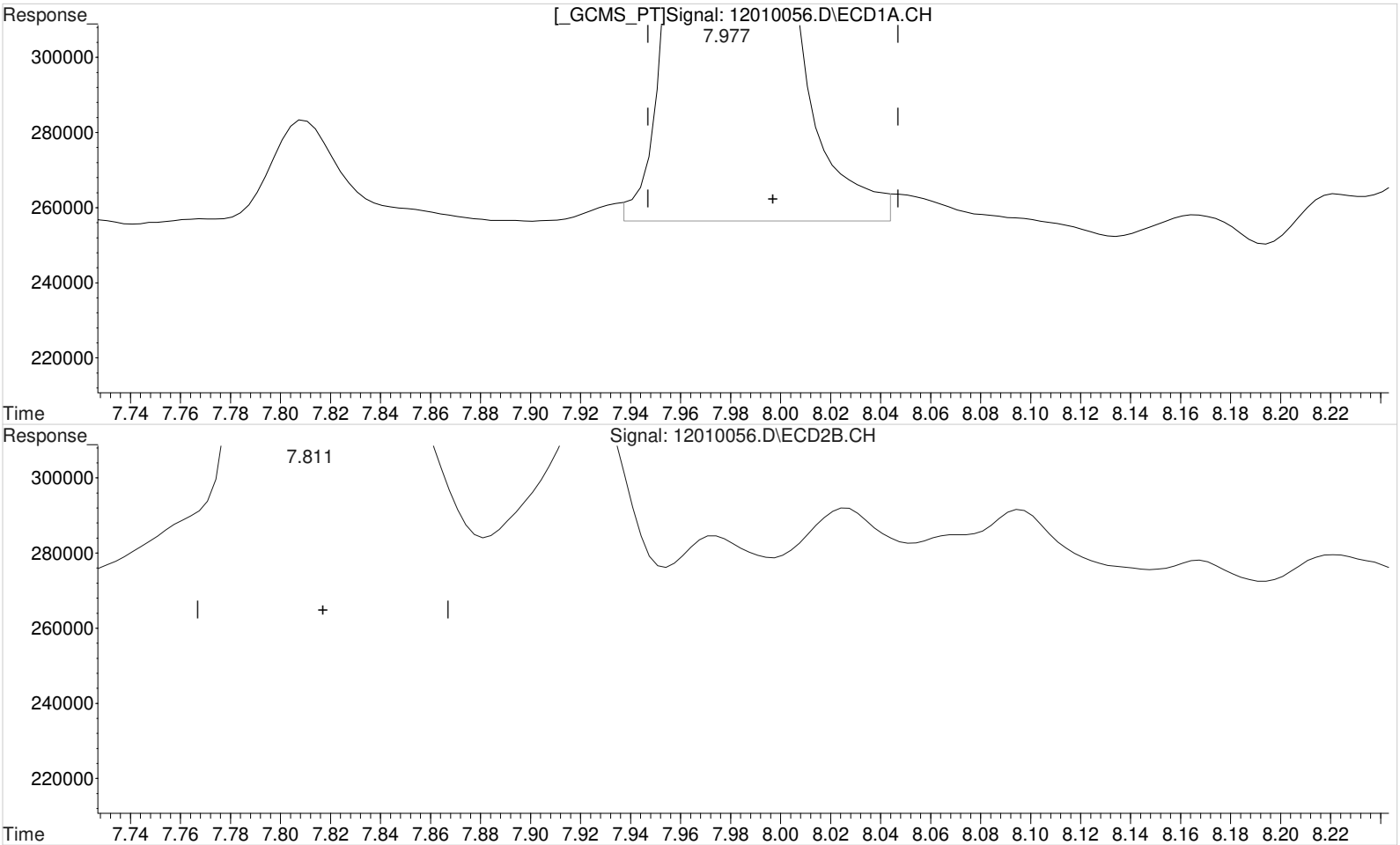
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

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

7.977min 63.638 ppb m

response 1157994

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.811min 105.396 ppb

response 4458028

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010056.D Vial: 61
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:19 pm Operator: UA
Sample : K2010456-009 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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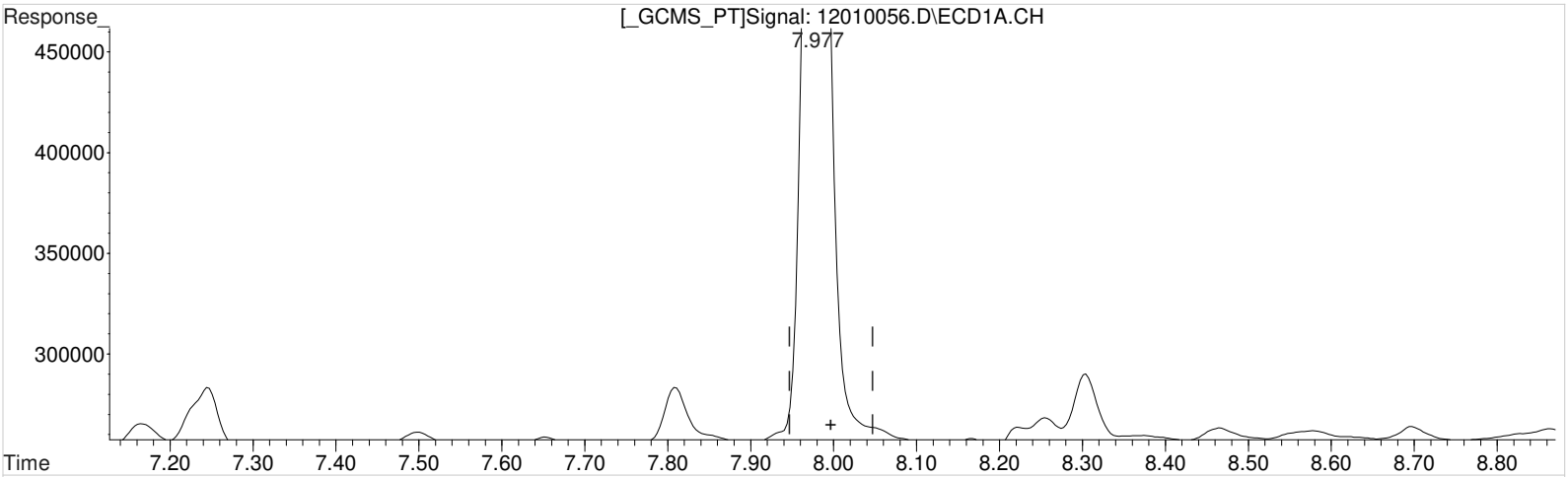

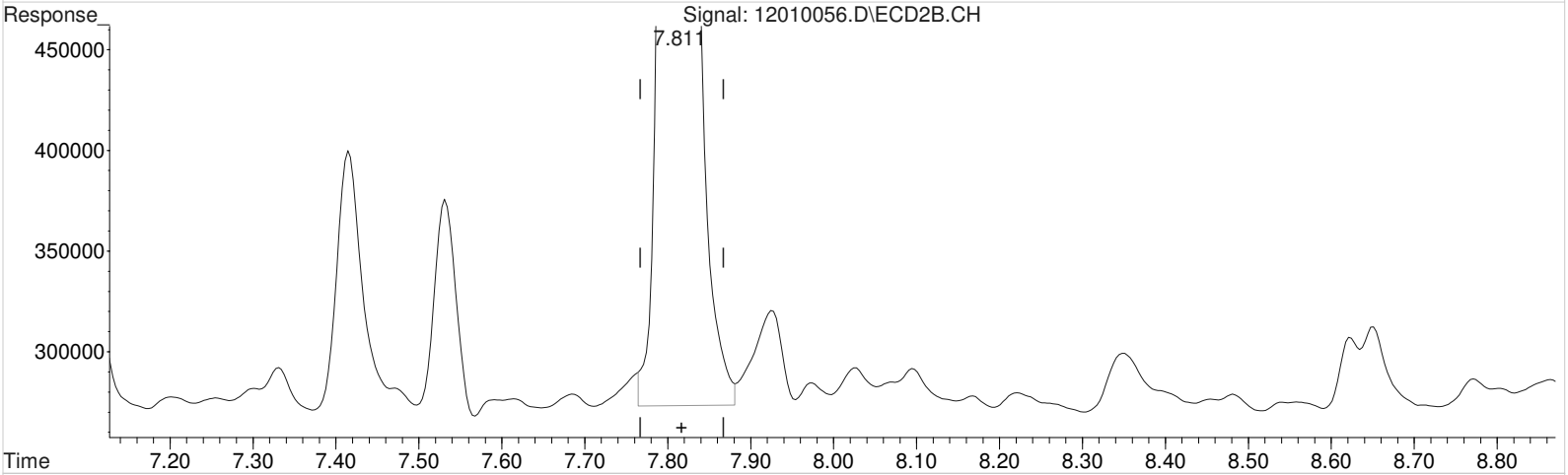

QEdit

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

7.977min 63.638 ppb m

response 1157994

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.811min 104.766 ppb m

response 4431364

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010057.D\
Lab ID: K2010456-010
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 14:42:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010057.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 14:42:00	**Vial:**	36
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-010	**Raw Units:**	ppb

Bottle ID:	K2010456-010.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	1147214	4415146	63.045	104.382	63	104	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	10.24 -0.01	10.08 -0.05	7221	330852	0.077	1.630 CCV	0.24U	5.0J	4.5 U	Y
2,4-D	9.32 +0.01	9.09 +0.03	11839	76272	0.557	1.490	1.7U	4.6U	15 U	Y

Prep Amount:	30.066 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	54.00

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:13:37 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...	7.977	7.810	1147214	4415146	63.045m	104.382m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.323	9.090	11839	76272	0.557	1.490m#
8)	m	2,4,5-TP ...	10.240	10.080f	7221	330852	0.077	1.630m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
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Quant Title : 103118_8151.m MJ215 CAL_KC1800
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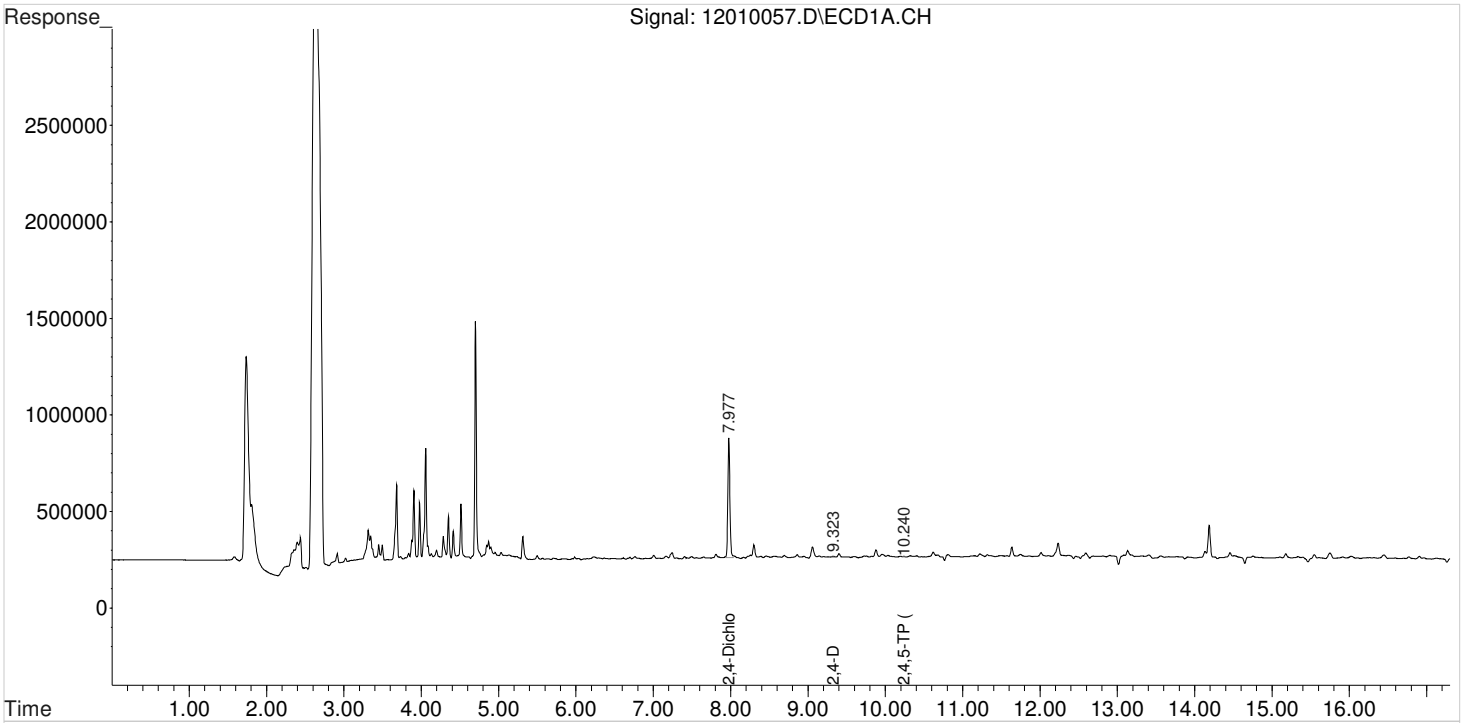
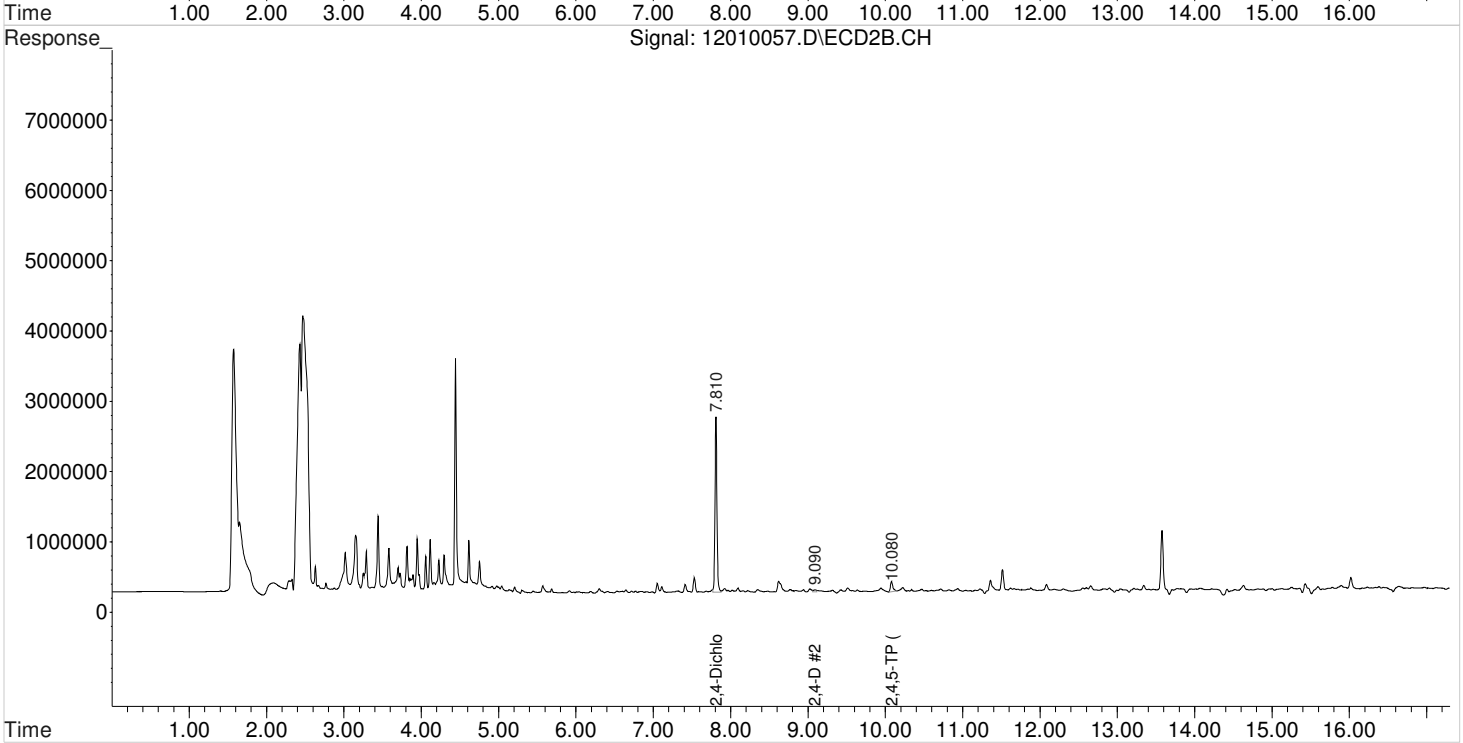
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:28 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 17:31:59 2020
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Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
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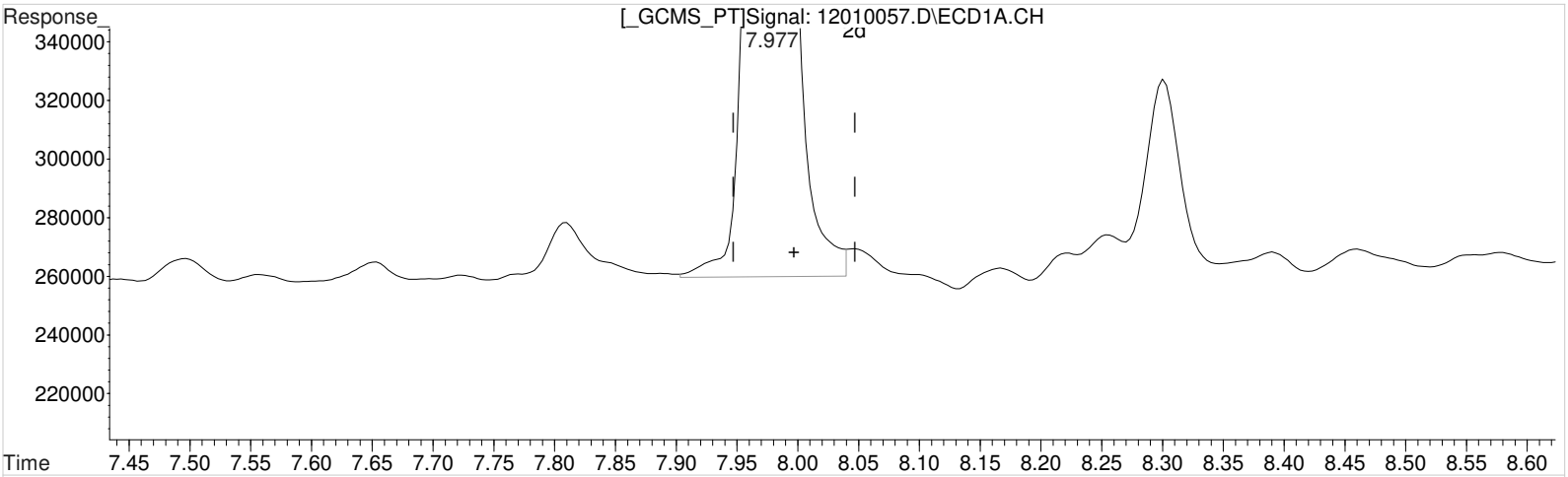

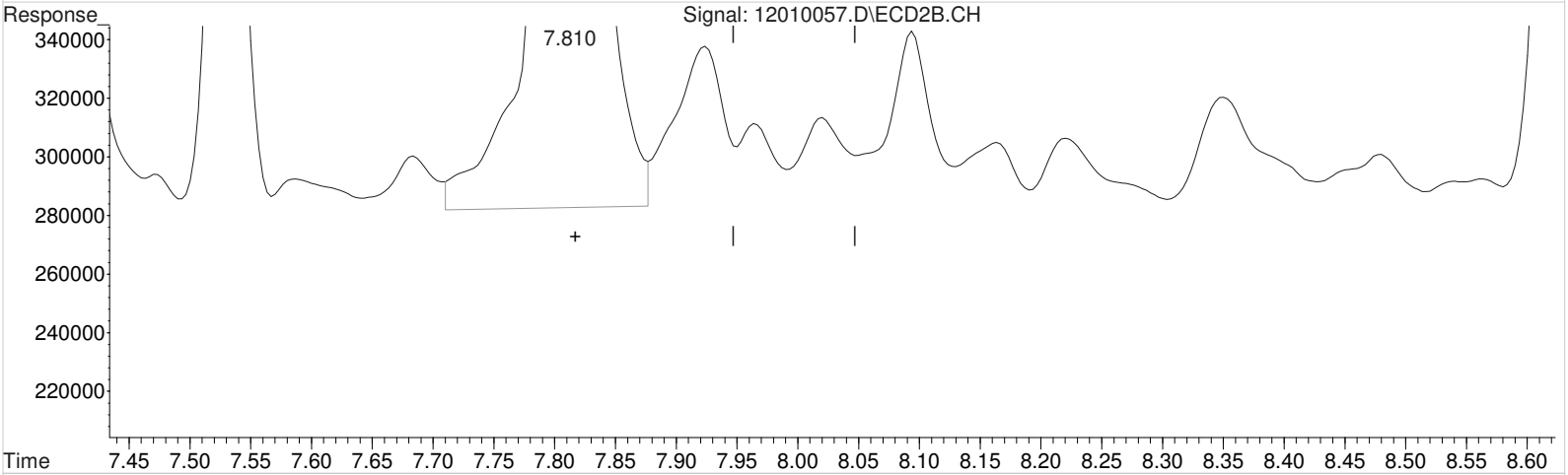

QEdit

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

7.977min 63.934 ppb

response 1163384

Manual Integration:

Before

12/02/20

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

7.810min 106.473 ppb

response 4503590

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
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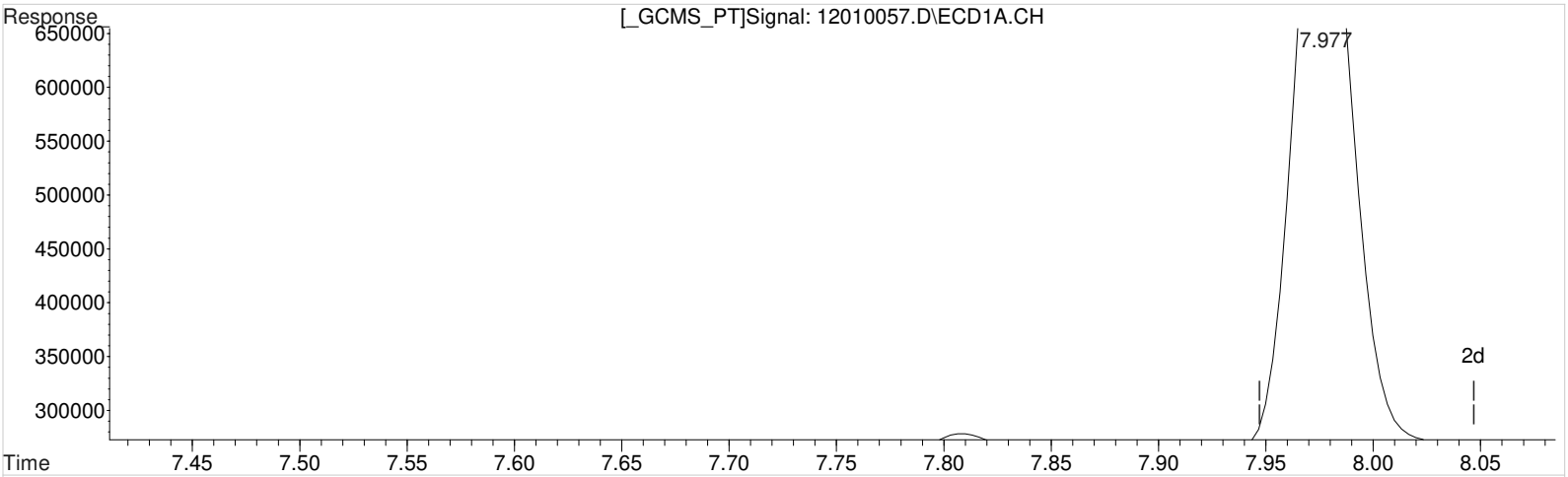

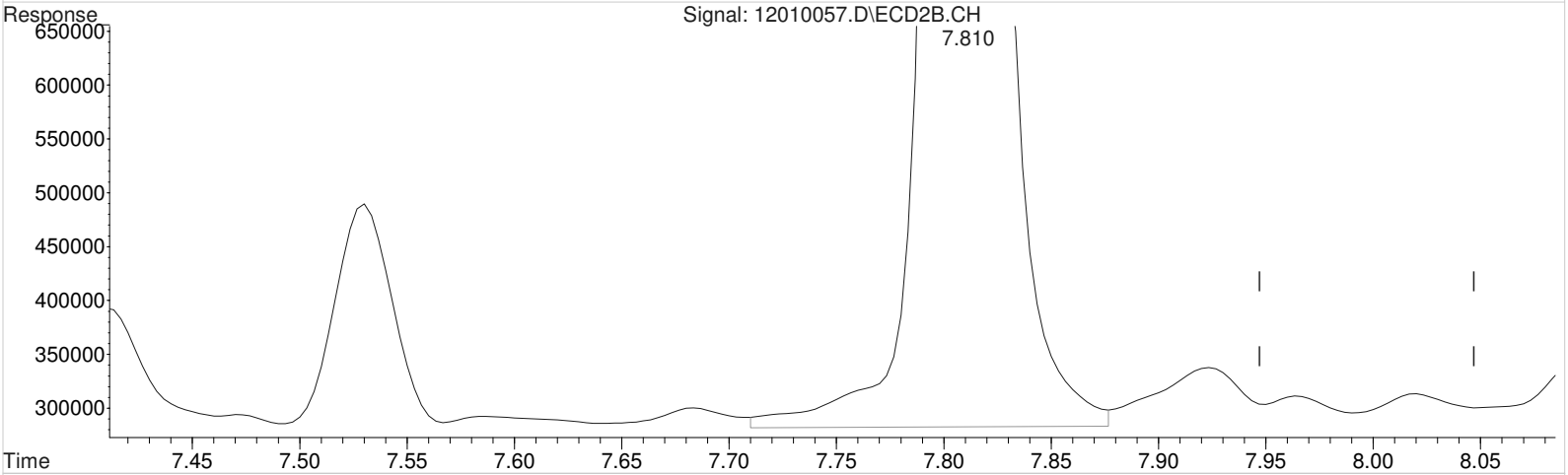

QEdit

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

7.977min 63.045 ppb m

response 1147214

Manual Integration:

Before

12/02/20

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

7.810min 106.473 ppb

response 4503590

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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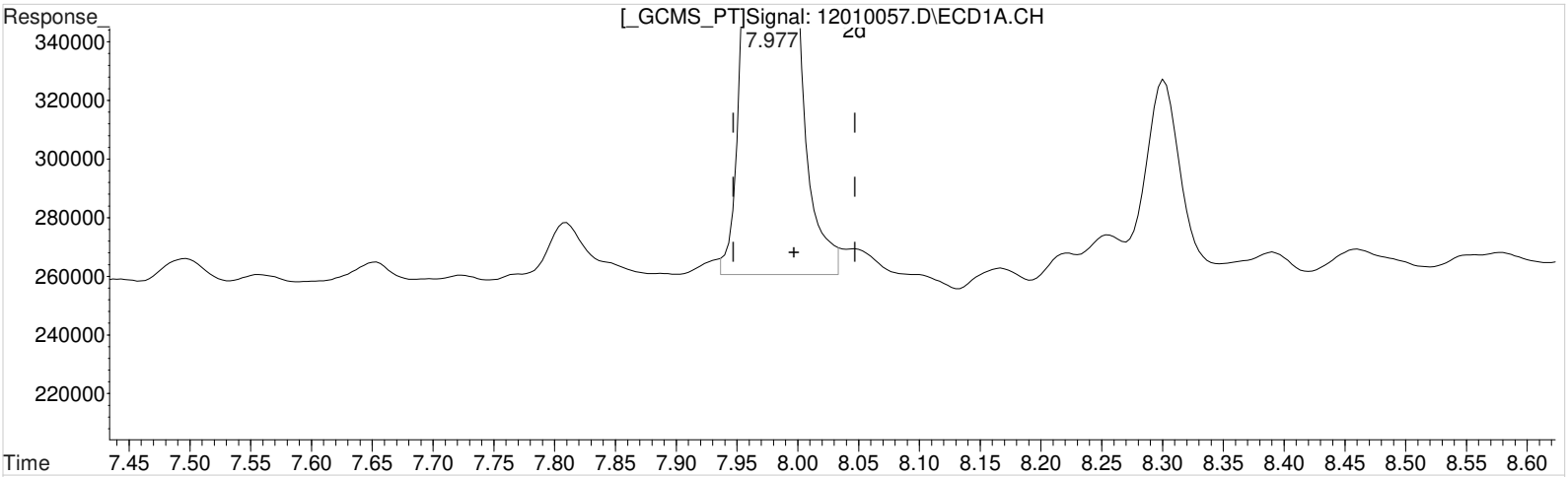

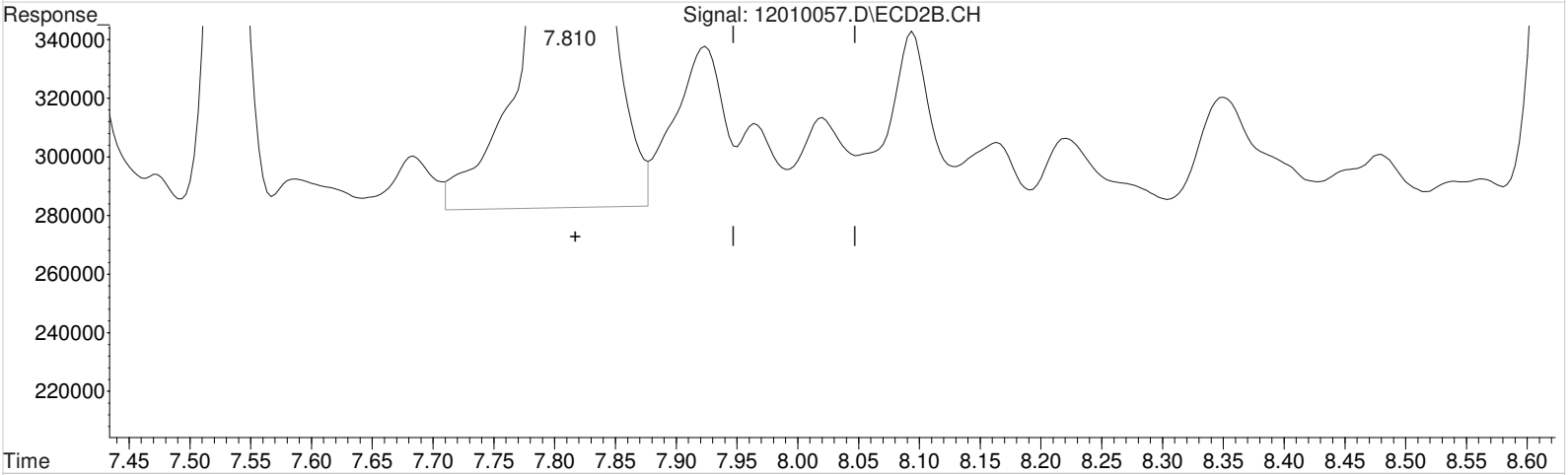

QEdit

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

7.977min 63.045 ppb m

response 1147214

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 106.473 ppb

response 4503590

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
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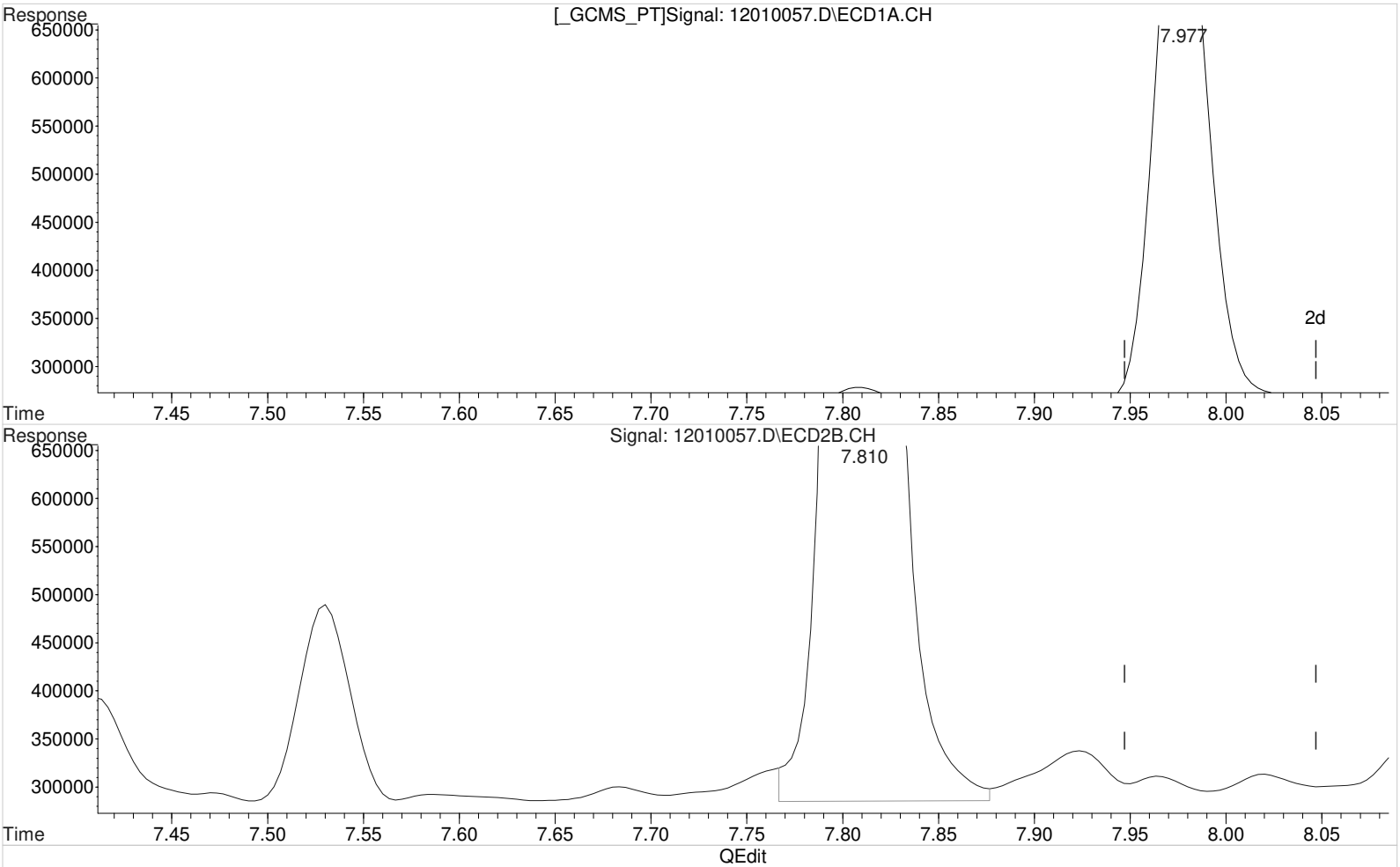
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

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

7.977min 63.045 ppb m

response 1147214

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 104.382 ppb m

response 4415146

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
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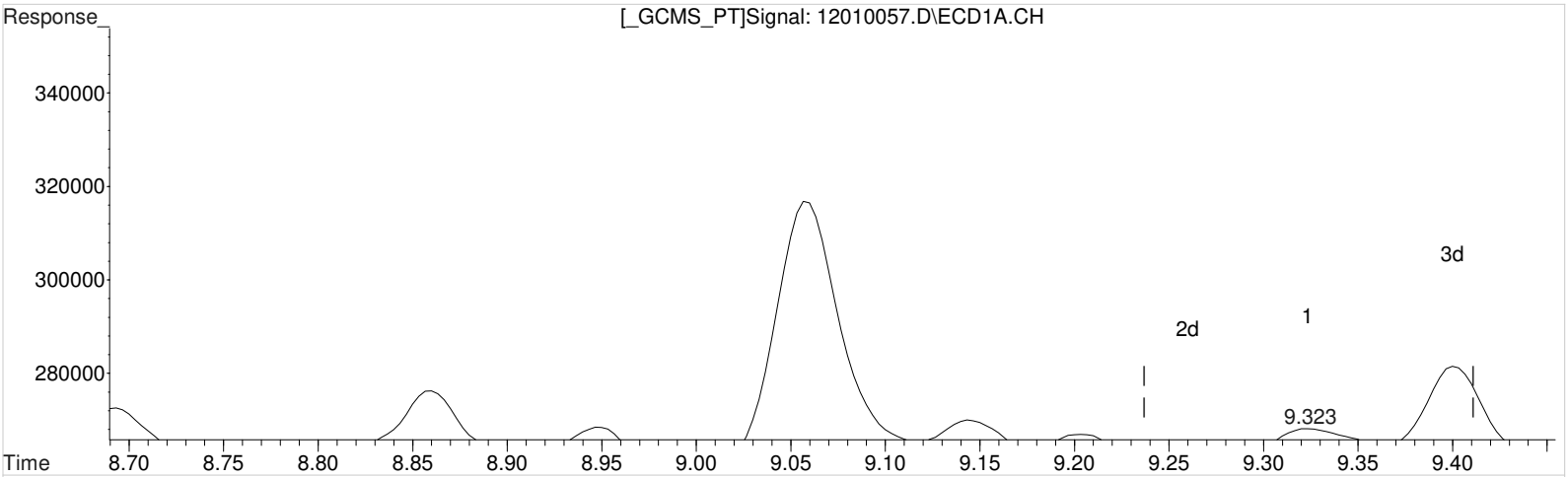
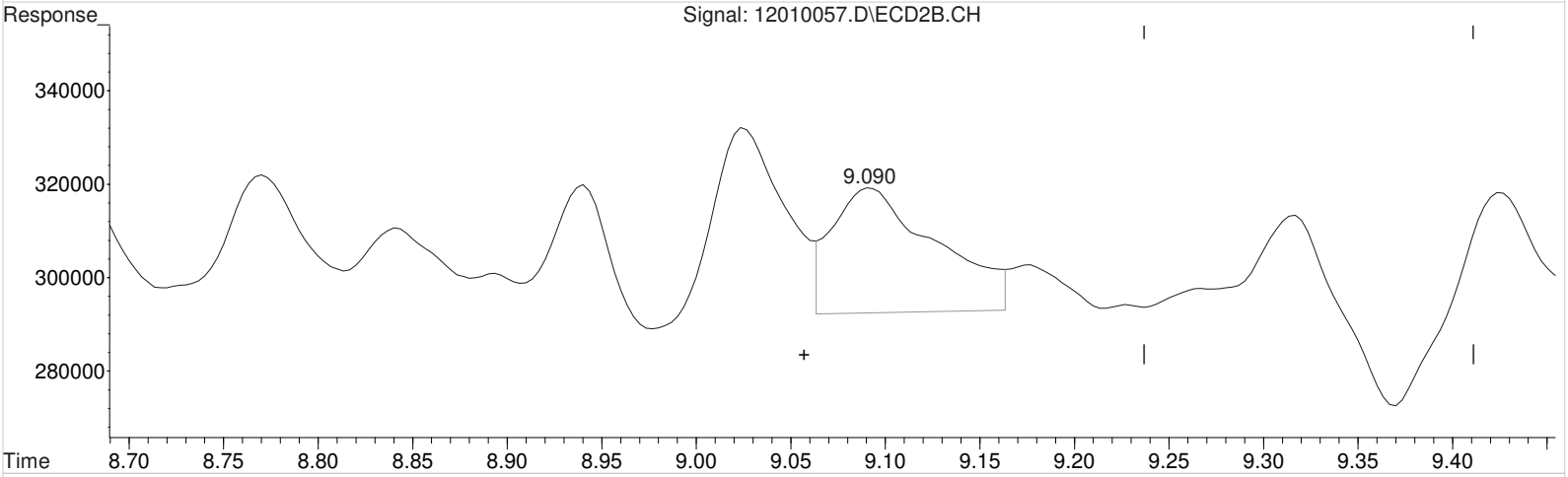
Quant Time: Dec 02 16:54:28 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 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





QEdit

(7) 2,4-D (m)

9.323min 0.557 ppb

response 11839

(7) 2,4-D #2 (m)

9.090min 2.003 ppb

response 102560

Manual Integration:

Before

12/02/20

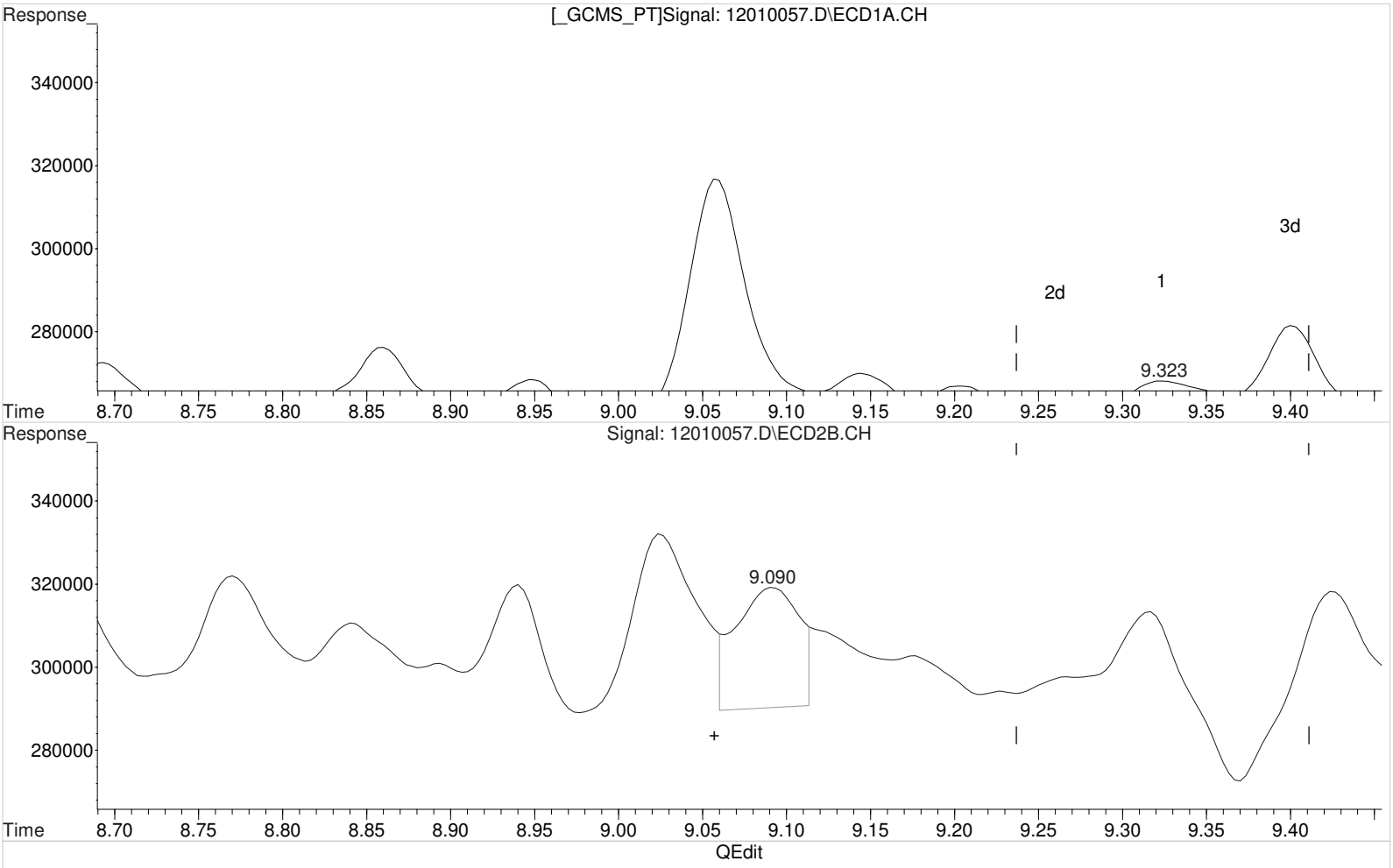
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:28 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 17:31:59 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



QEdit

(7) 2,4-D (m)

9.323min 0.557 ppb

response 11839

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.090min 1.490 ppb m

response 76272

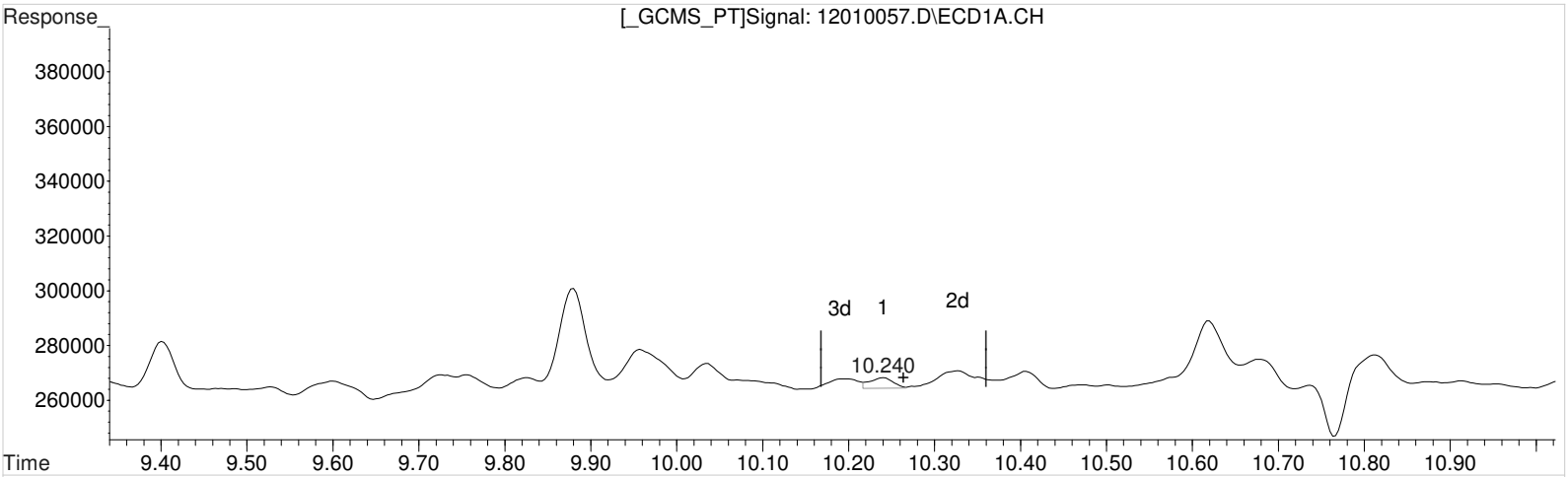
(+) = Expected Retention Time

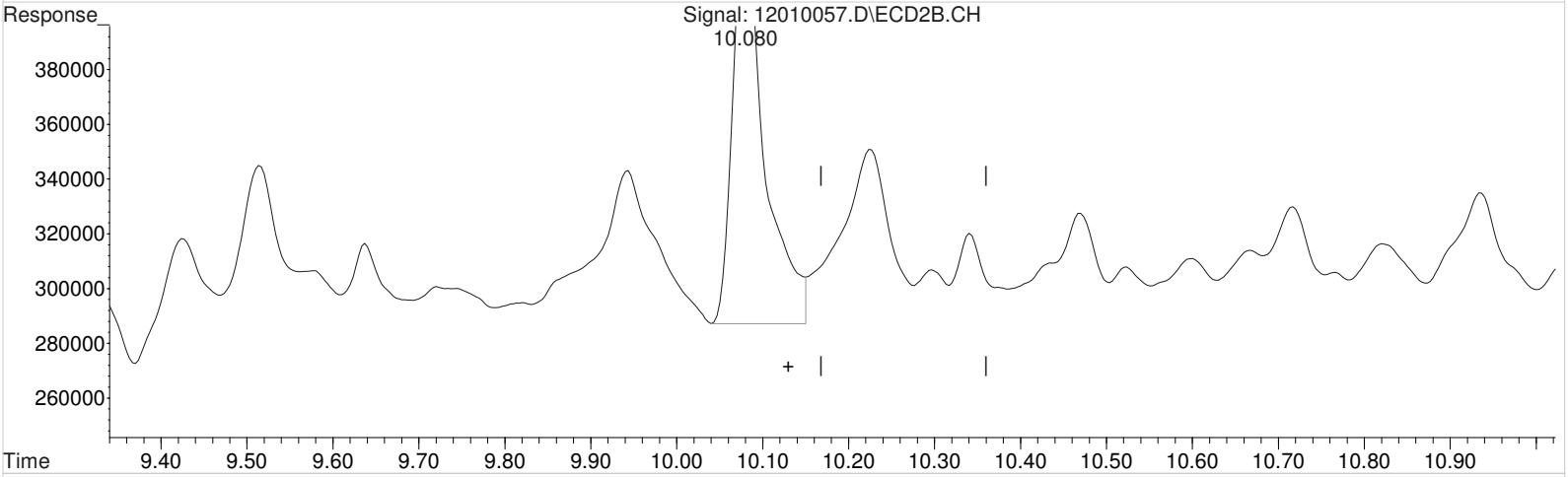
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:28 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.240min 0.077 ppb

response 7221

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.080min 1.863 ppb

response 378231

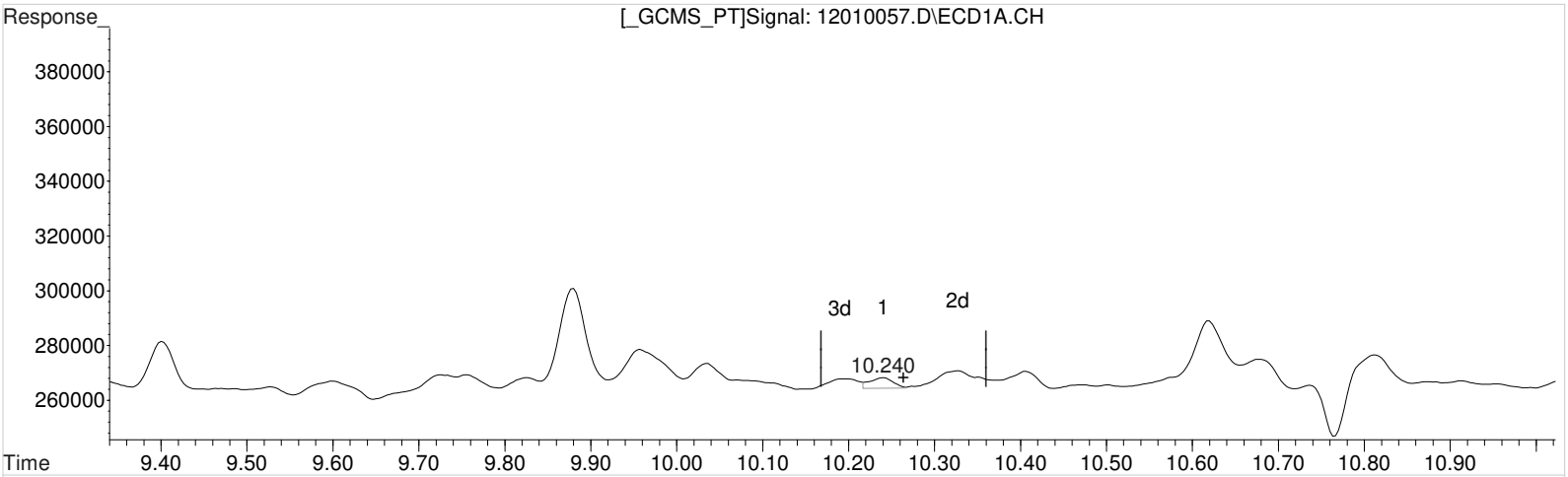
(+) = Expected Retention Time

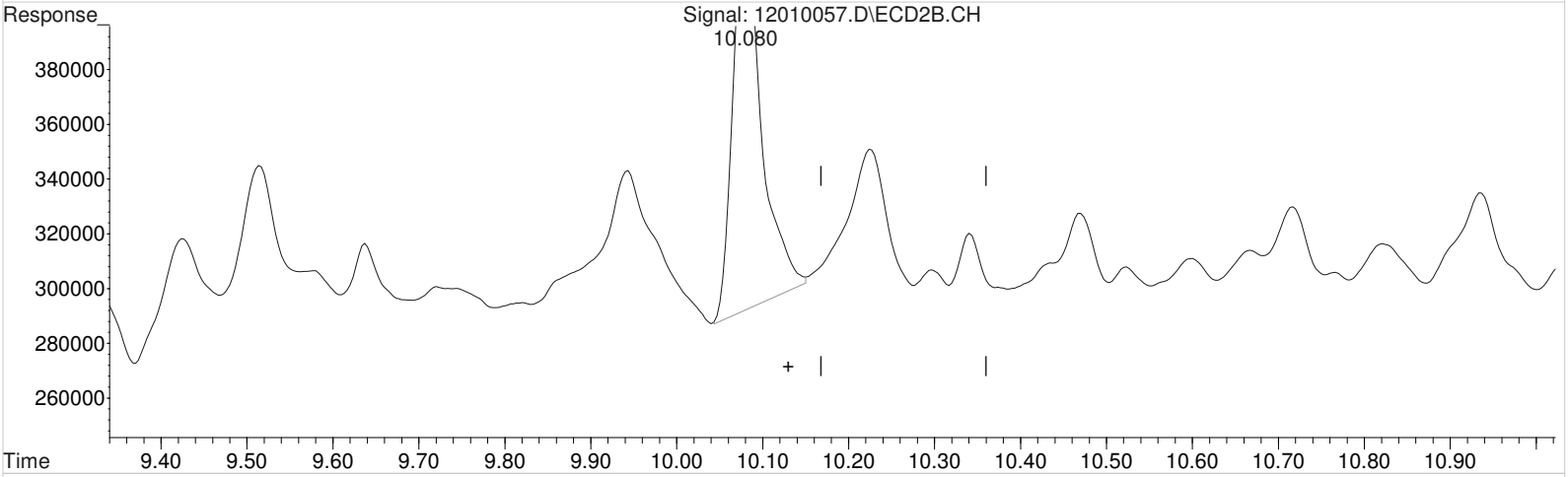
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010057.D Vial: 62
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 2:42 pm Operator: UA
Sample : K2010456-010 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:28 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.240min 0.077 ppb

response 7221

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.080min 1.630 ppb m

response 330852

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010058.D\
Lab ID: K2010456-011
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 15:05:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010058.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 15:05:00	**Vial:**	37
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-011	**Raw Units:**	ppb

Bottle ID:	K2010456-011.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	1031946	3946520	56.711	93.303	57	93	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	10.24 -0.01	10.08 -0.05	9032	301355	0.096	1.485 CCV	0.28U	4.4J	4.3 U	Y
2,4-D	9.32 +0.01	9.09 +0.03	10173	23536	0.479	0.460	1.4U	1.4U	14 U	Y

Prep Amount:	30.090 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	56.10

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:16:41 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.976	7.810	1031946	3946520	56.711m	93.303m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.320	9.090	10173	23536	0.479	0.460
8) m	2,4,5-TP ...	10.240	10.080f	9032	301355	0.096	1.485m#
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

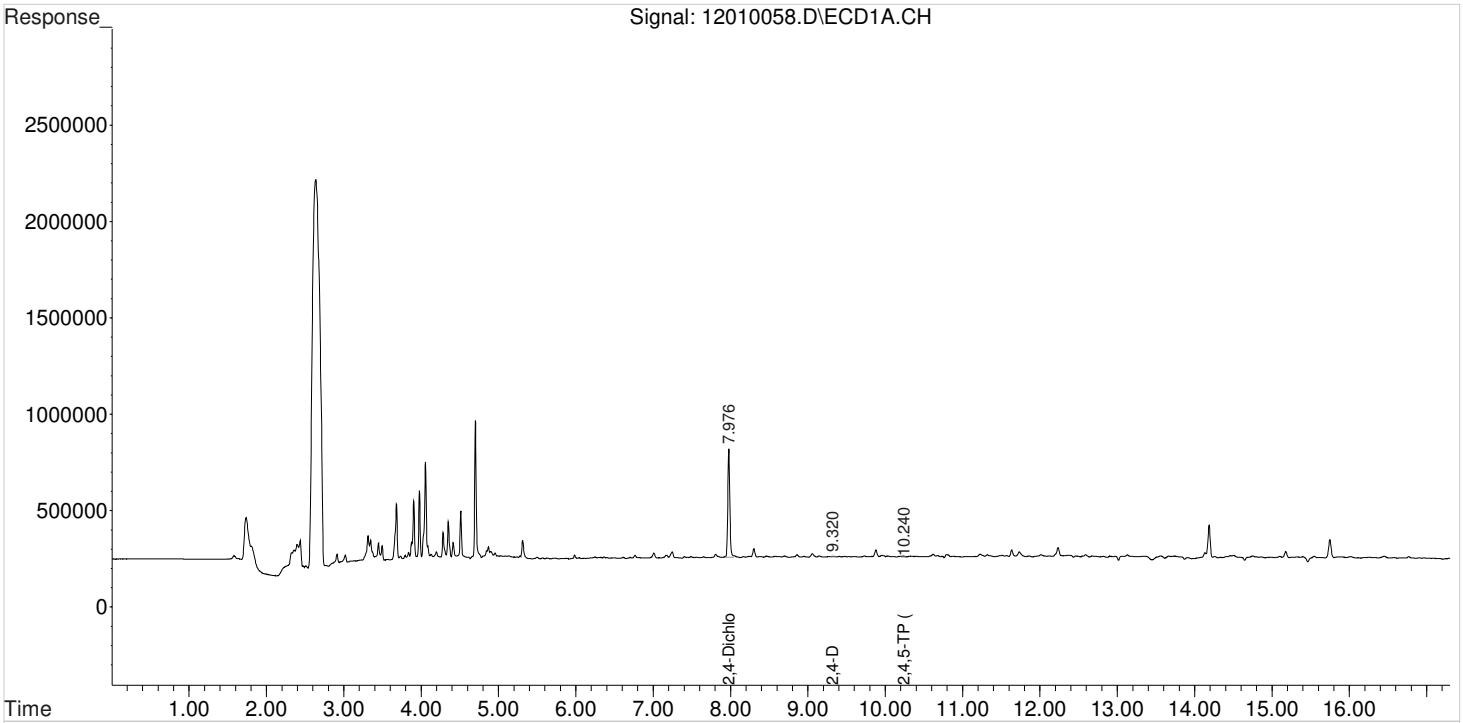
Quantitation Report (QT Reviewed)

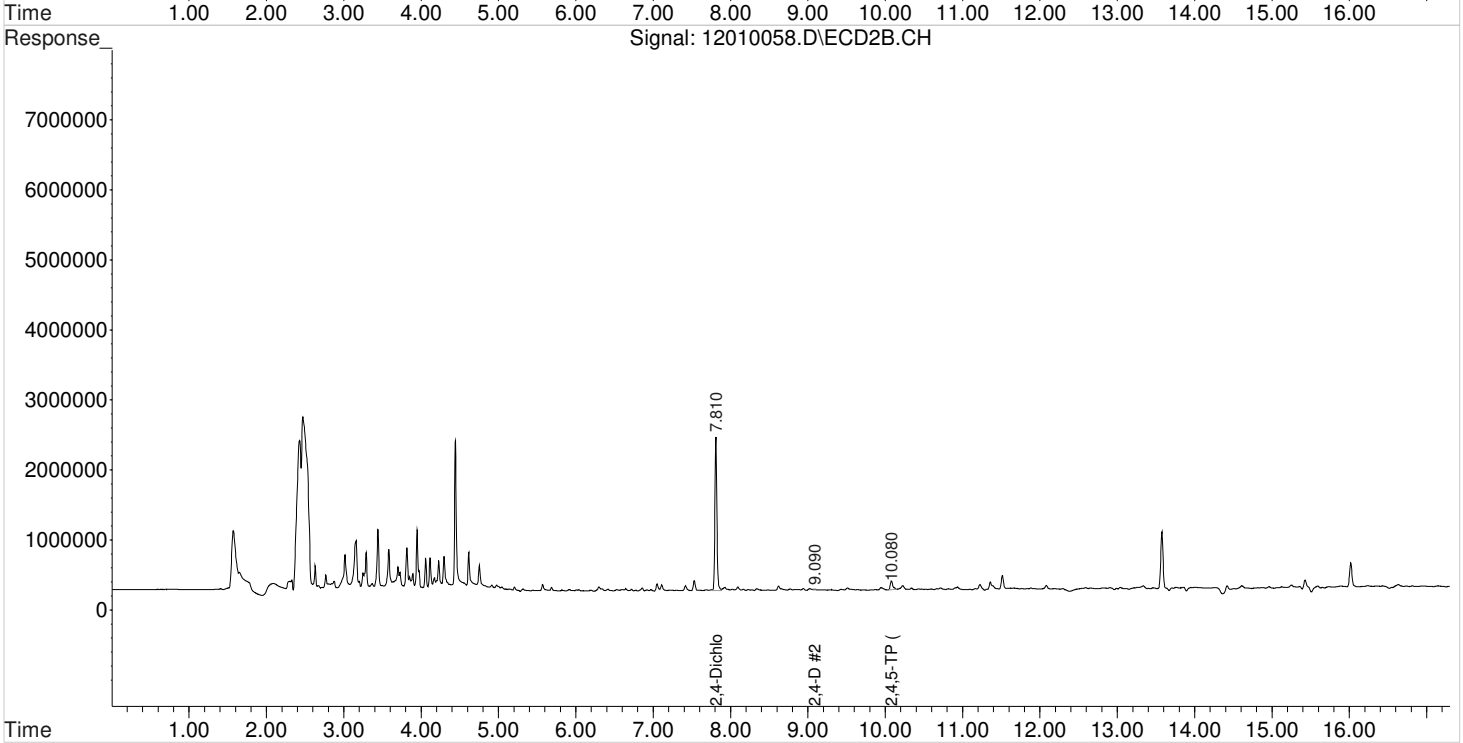
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 17:16:41 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



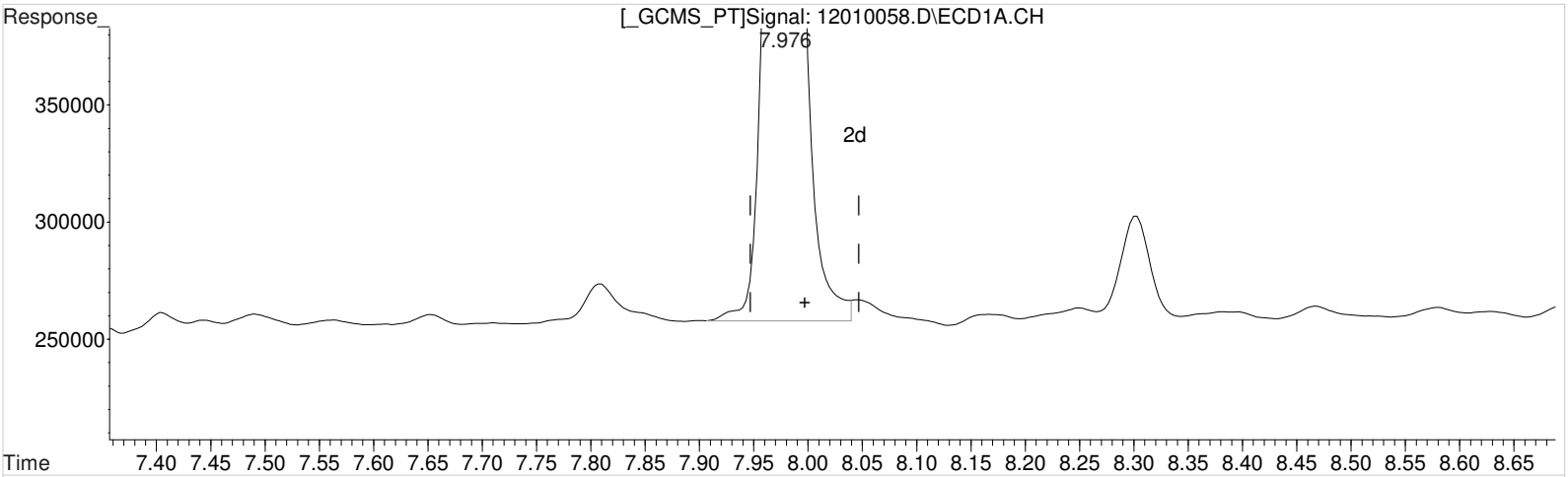


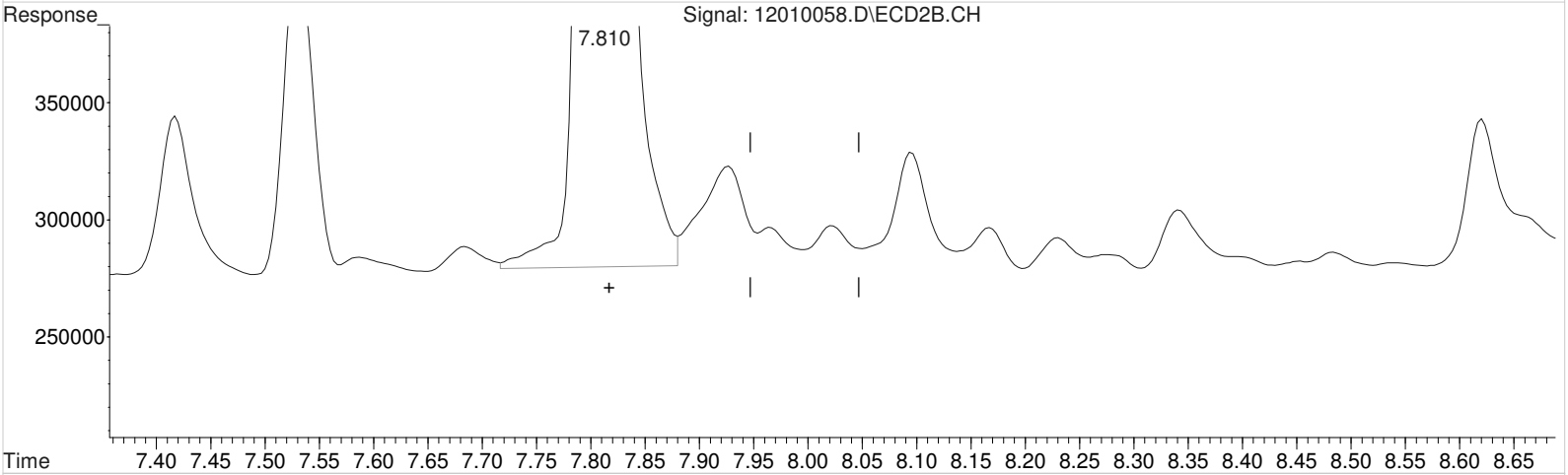
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:31 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





QEdit

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

7.976min 57.192 ppb

response 1040706

Manual Integration:

Before

12/02/20

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

7.810min 93.648 ppb

response 3961125

(+) = Expected Retention Time

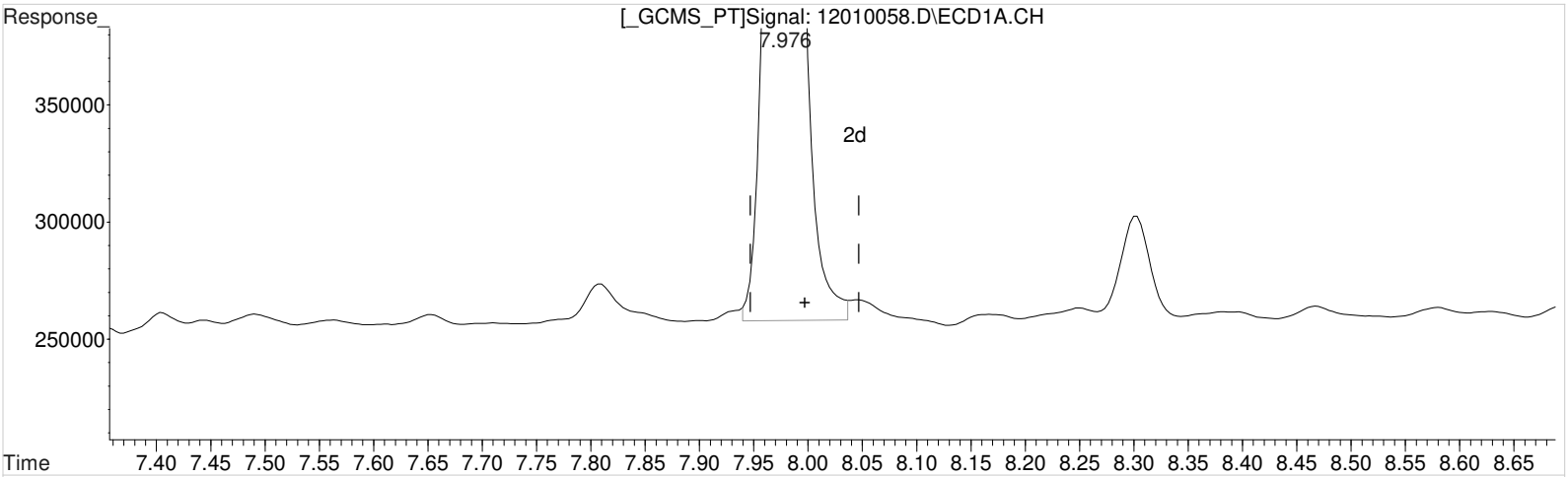
Quantitation Report (Qedit)

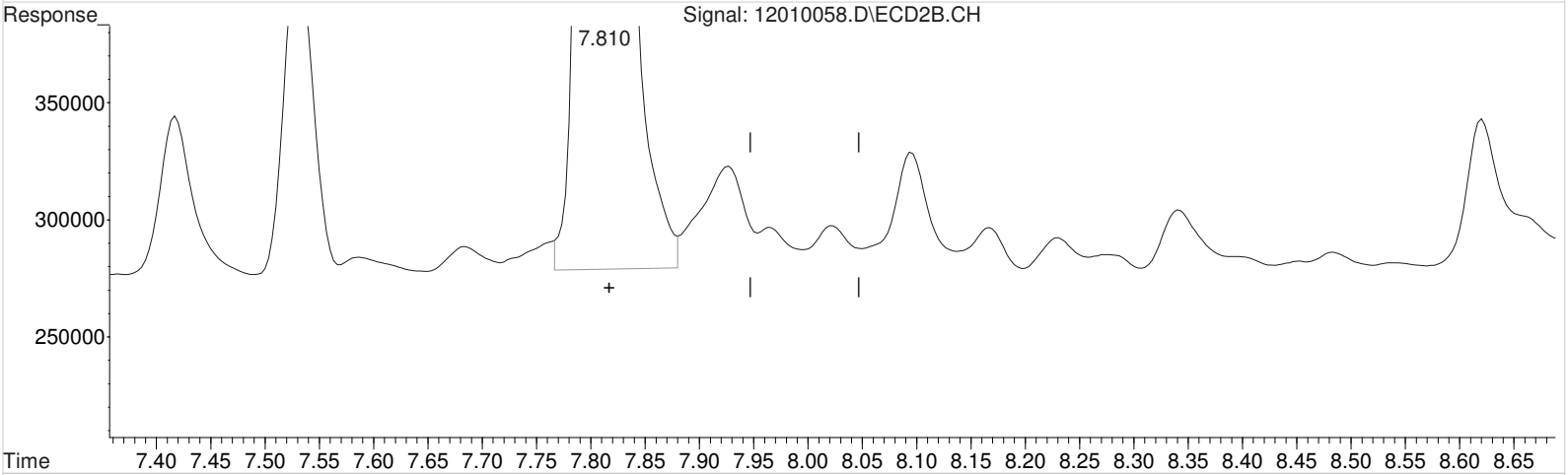
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:31 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





QEdit

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

7.976min 56.711 ppb m

response 1031946

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.810min 93.303 ppb m

response 3946520

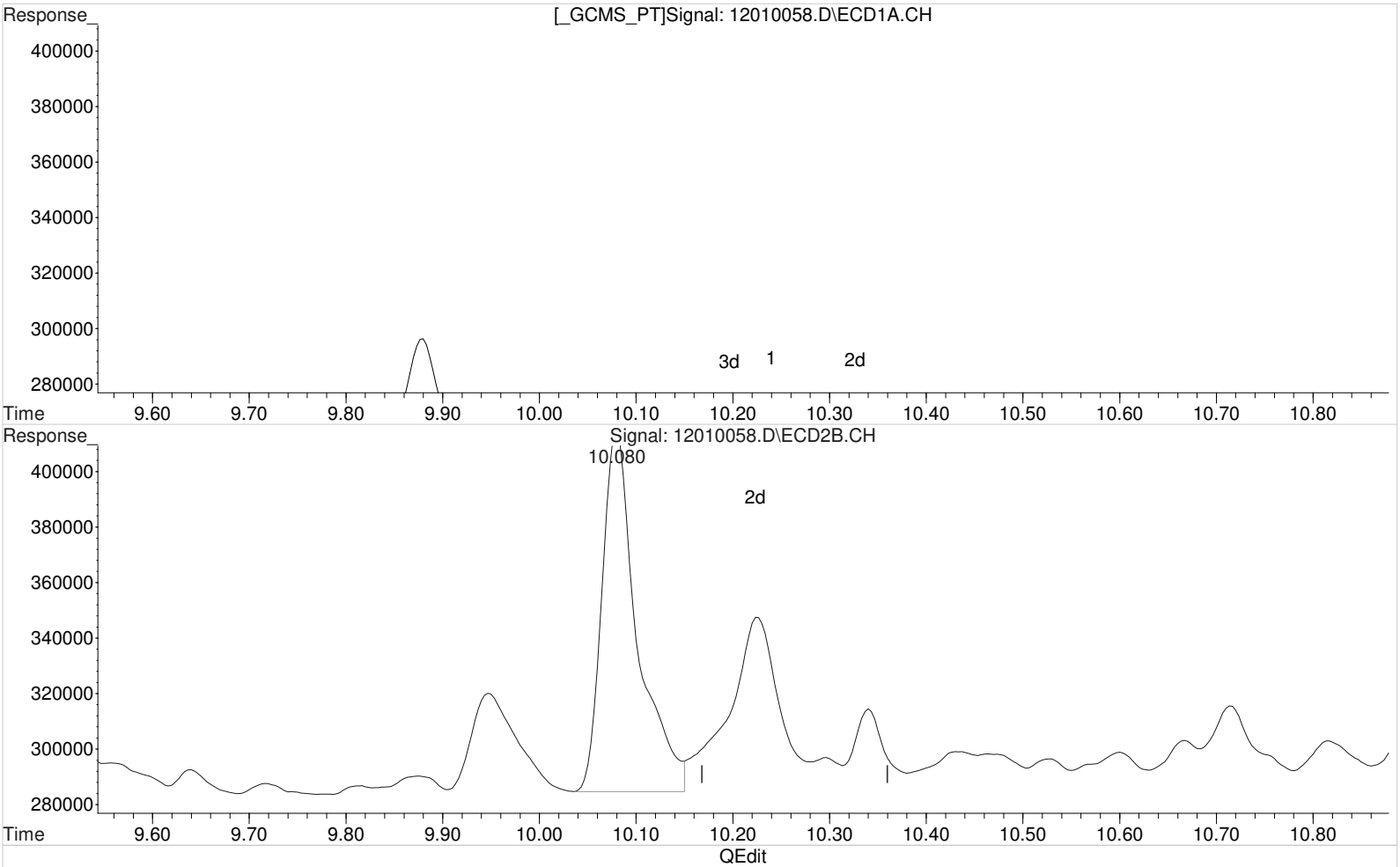
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:31 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



QEdit

(8) 2,4,5-TP (Silvex) (m)

10.240min 0.096 ppb

response 9032

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.080min 1.633 ppb

response 331504

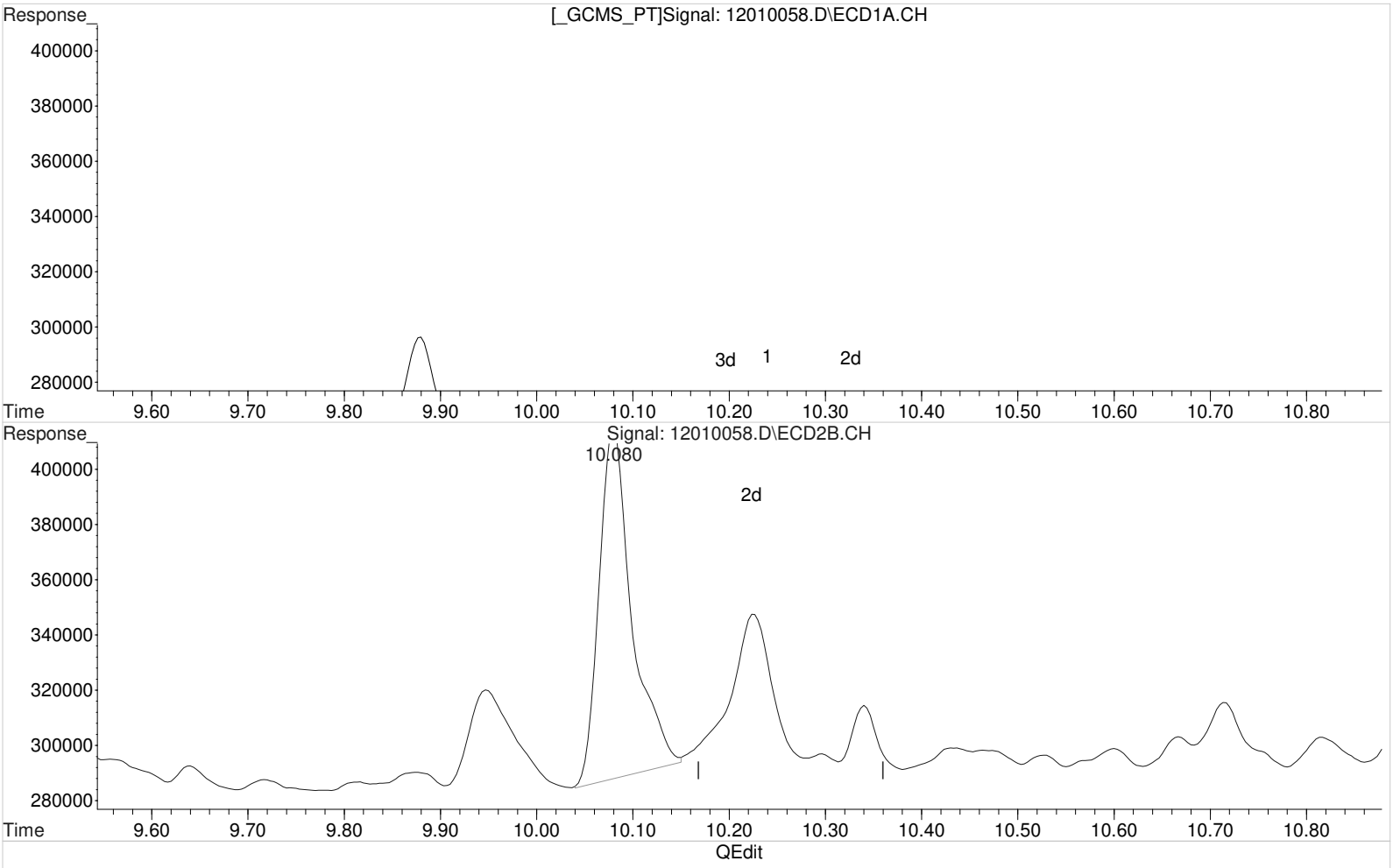
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010058.D Vial: 63
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:05 pm Operator: UA
Sample : K2010456-011 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:54:31 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



QEdit

(8) 2,4,5-TP (Silvex) (m)

10.240min 0.096 ppb

response 9032

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.080min 1.485 ppb m

response 301355

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010059.D\
Lab ID: K2010456-012
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 15:28:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010059.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 15:28:00	**Vial:**	38
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-012	**Raw Units:**	ppb

Bottle ID:	K2010456-012.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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 -0.01	1155935	4405580	63.525	104.156	64	104	64	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	10.24 -0.01	10.08 -0.05	8091	338232	0.086	1.666 CCV	0.24U	4.7J	4.1 U	Y
2,4-D	9.32 +0.01	9.02 -0.04	11296	107409	0.532	2.098	1.5U	5.9U	14 U	Y

Prep Amount:	30.080 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	59.00

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:40:47 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...	7.981	7.811	1155935	4405580	63.525m	104.156m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.324	9.024	11296	107409	0.532m	2.098 #
8)	m	2,4,5-TP ...	10.244	10.084	8091	338232	0.086	1.666m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

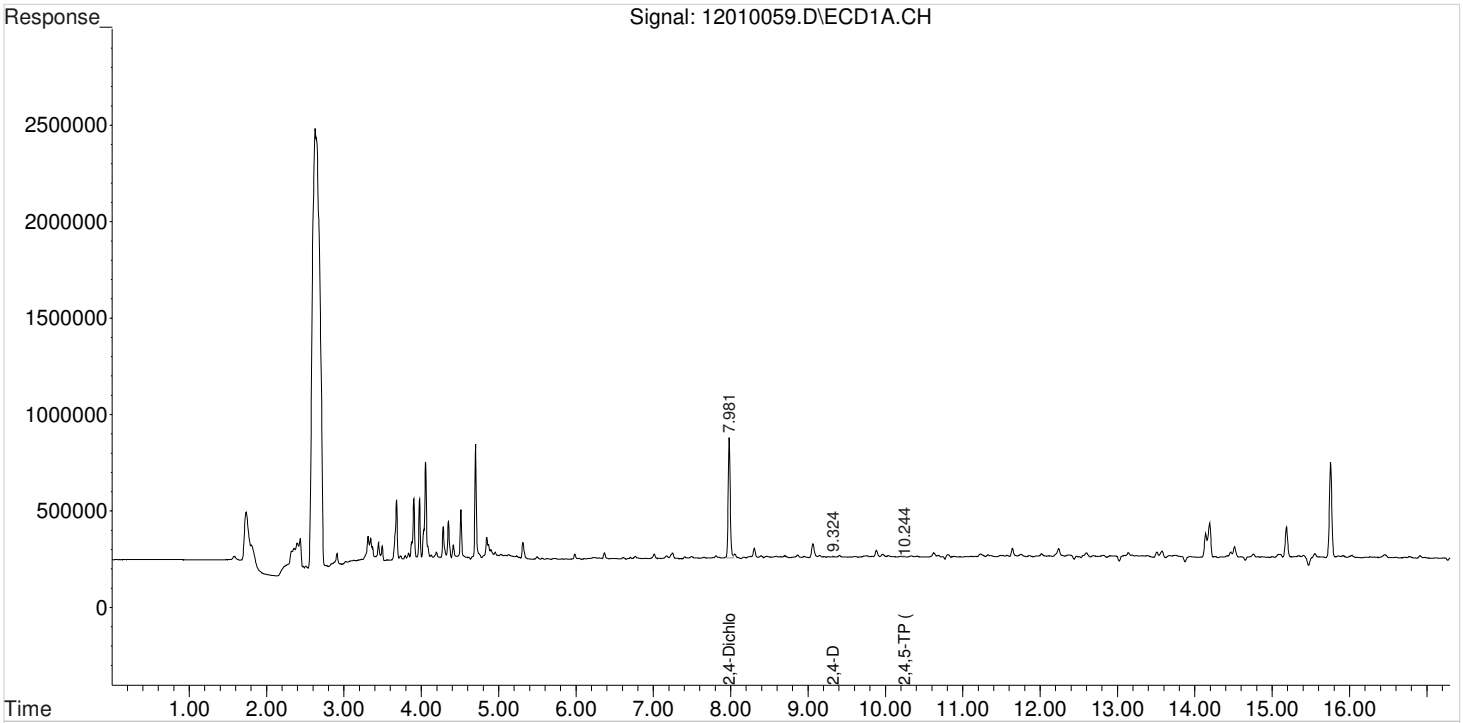
Quantitation Report (QT Reviewed)

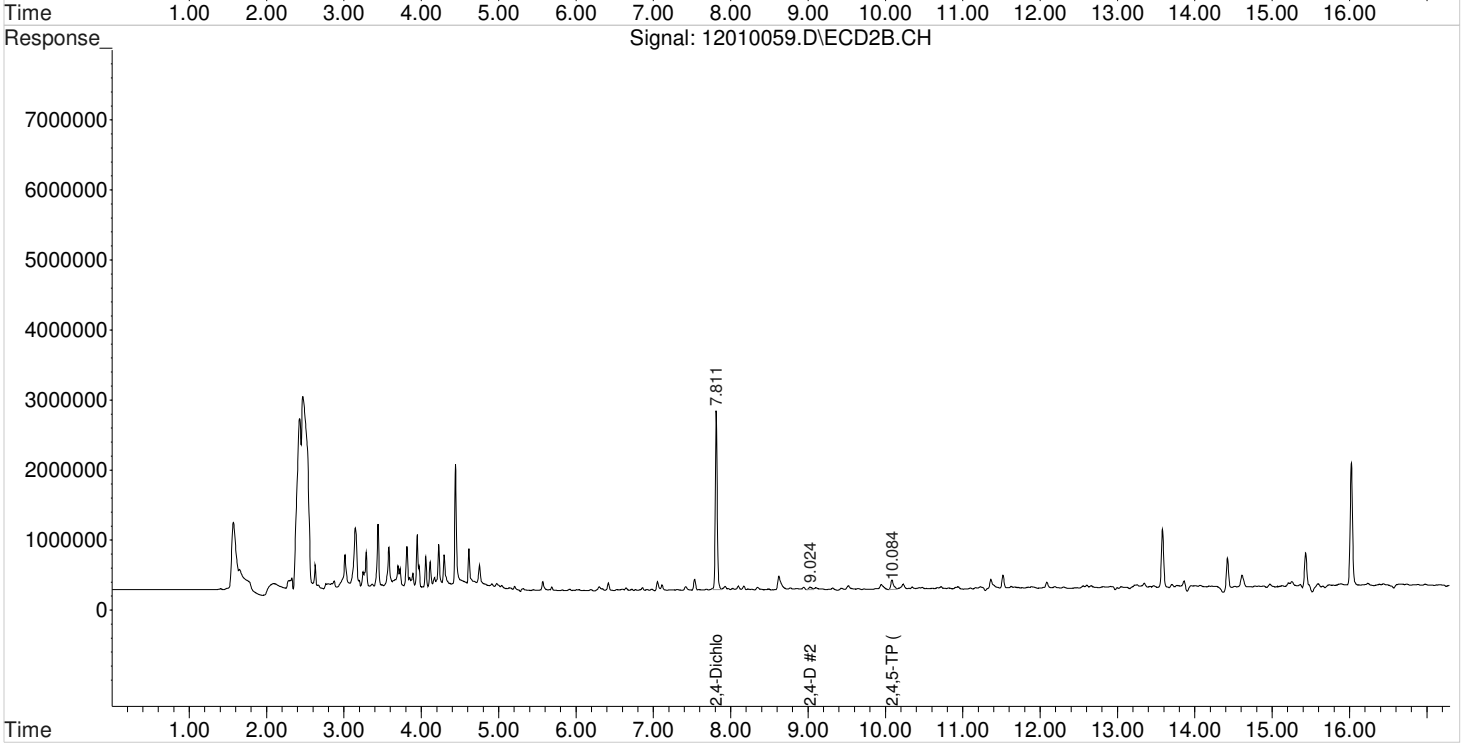
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:40:47 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





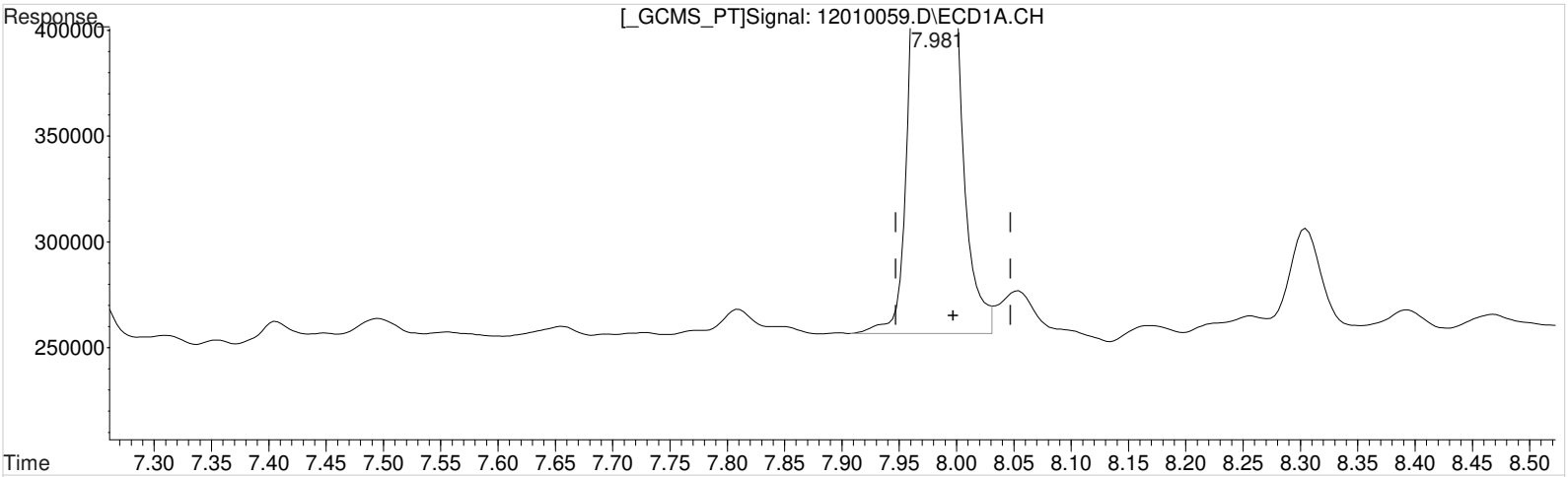
Quantitation Report (Qedit)

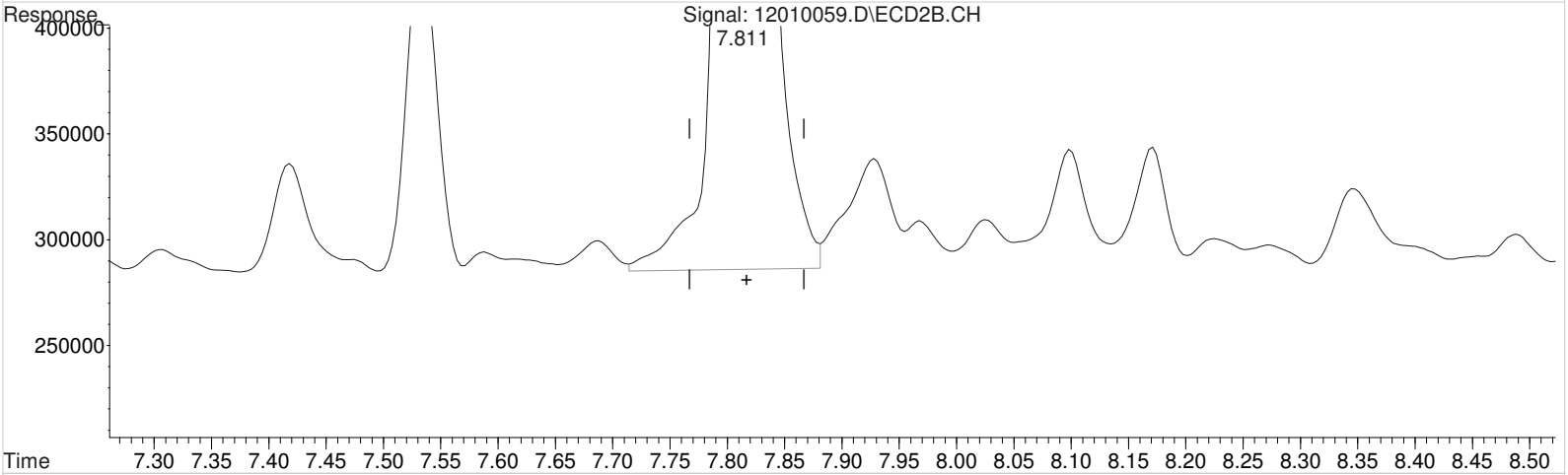
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:00 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





QEdit

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

7.981min 63.668 ppb

response 1158546

Manual Integration:

Before

12/02/20

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

7.811min 106.095 ppb

response 4487611

(+) = Expected Retention Time

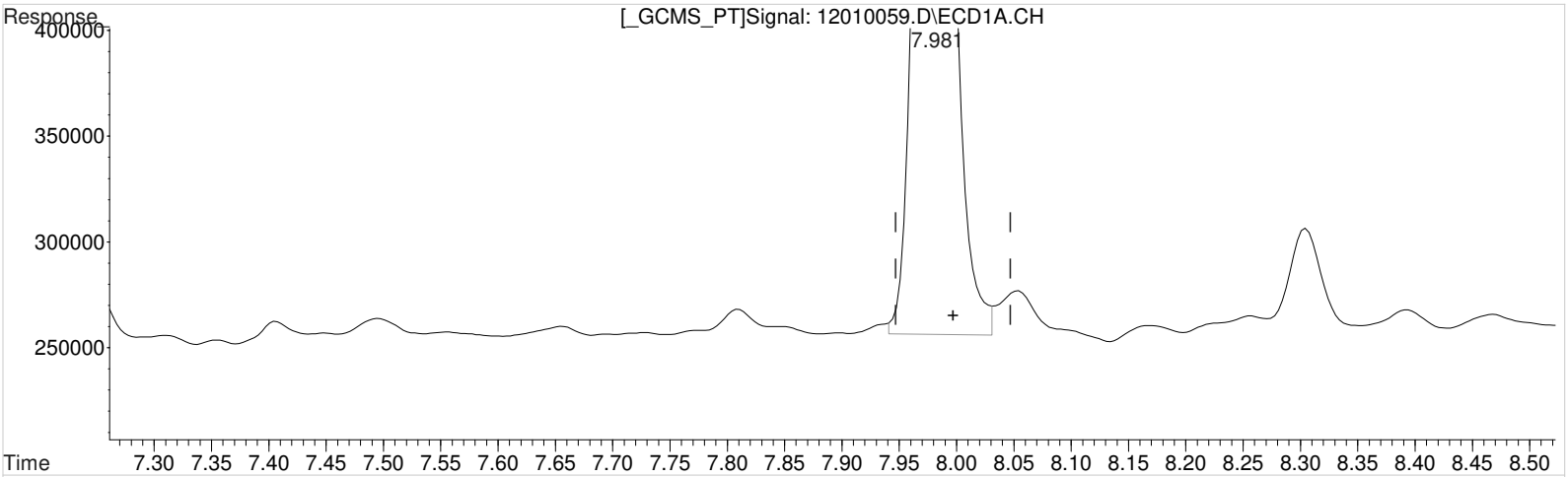
Quantitation Report (Qedit)

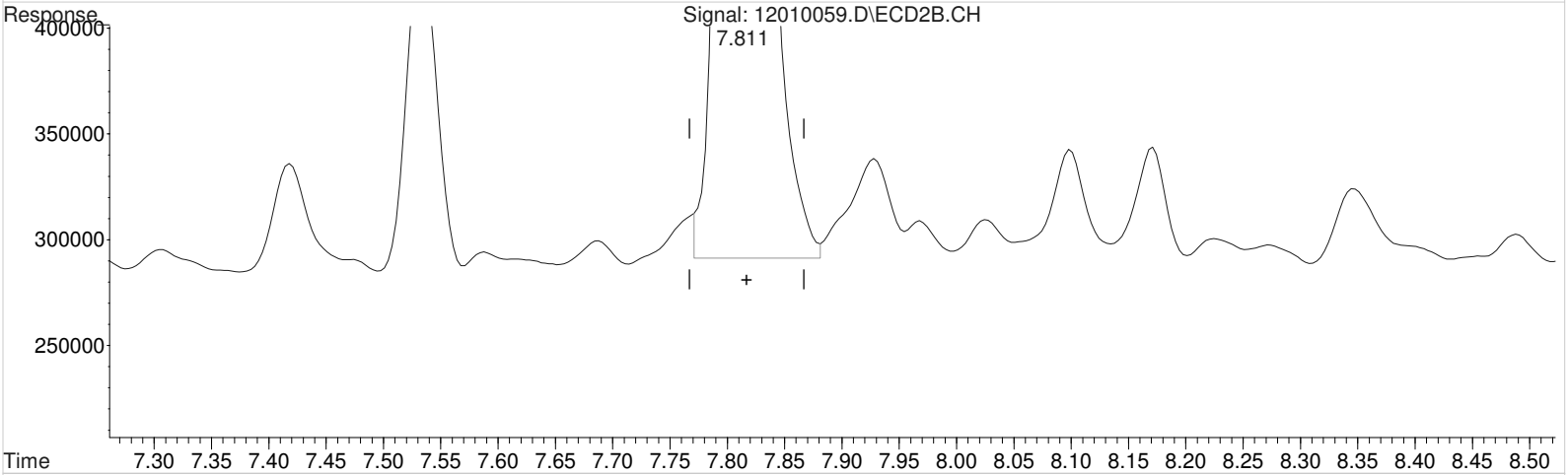
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:00 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





QEdit

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

7.981min 63.525 ppb m

response 1155935

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.811min 104.156 ppb m

response 4405580

(+) = Expected Retention Time

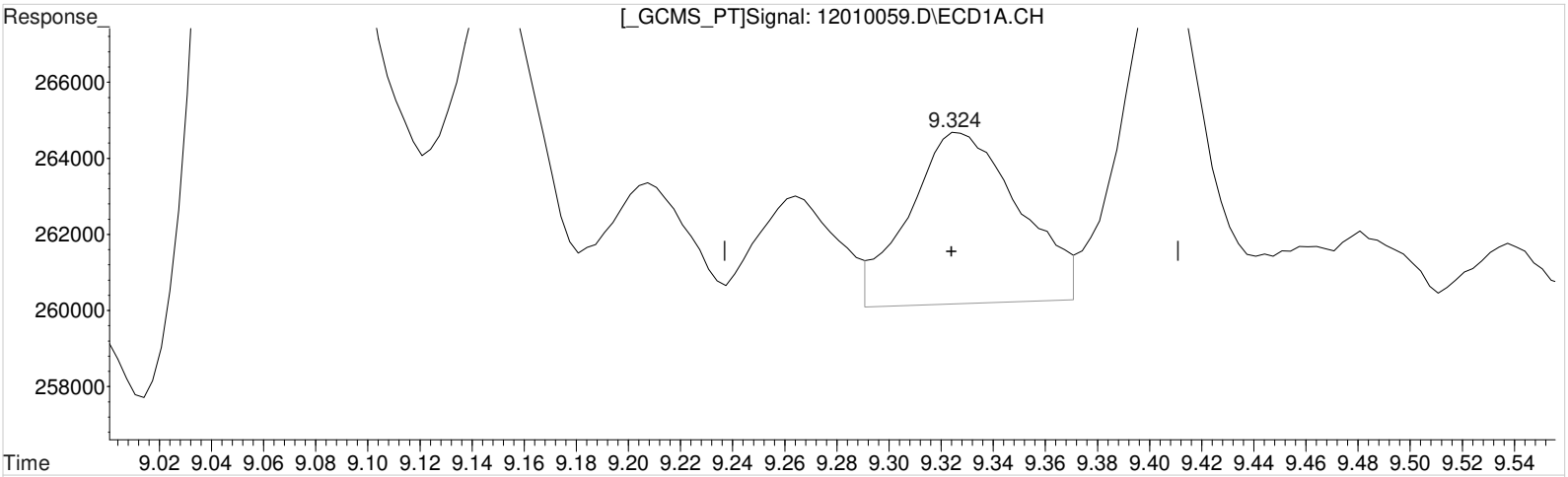
Quantitation Report (Qedit)

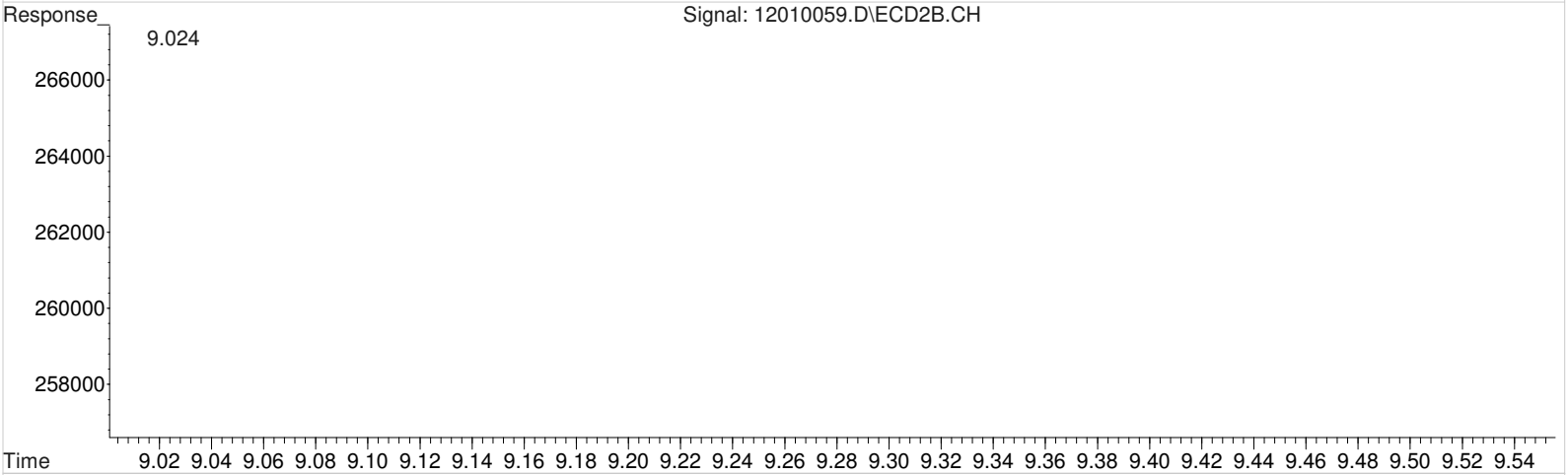
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:00 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





QEdit

(7) 2,4-D (m)

9.324min 0.625 ppb

response 13267

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.024min 2.098 ppb

response 107409

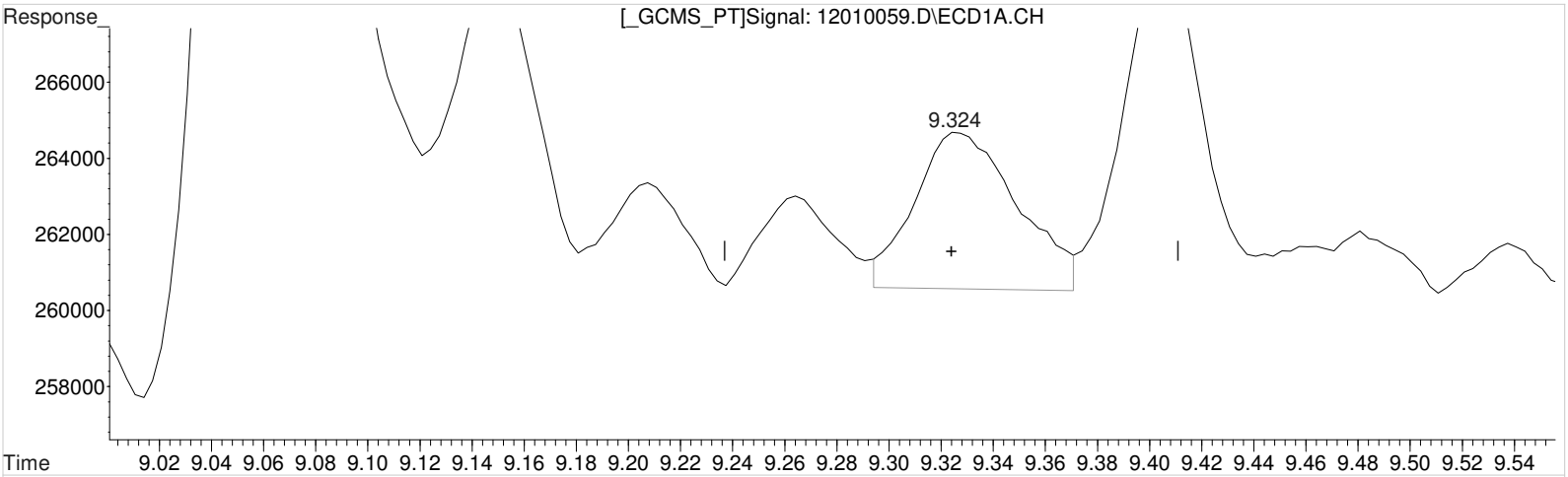
(+) = Expected Retention Time

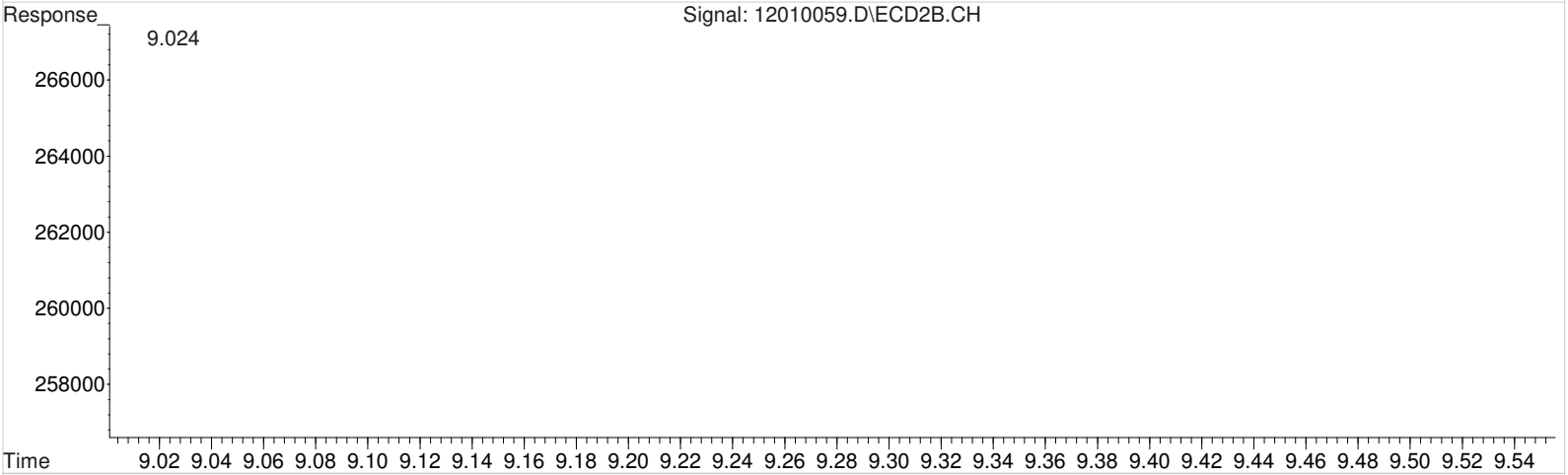
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:00 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





QEdit

(7) 2,4-D (m)

9.324min 0.532 ppb m

response 11296

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.024min 2.098 ppb

response 107409

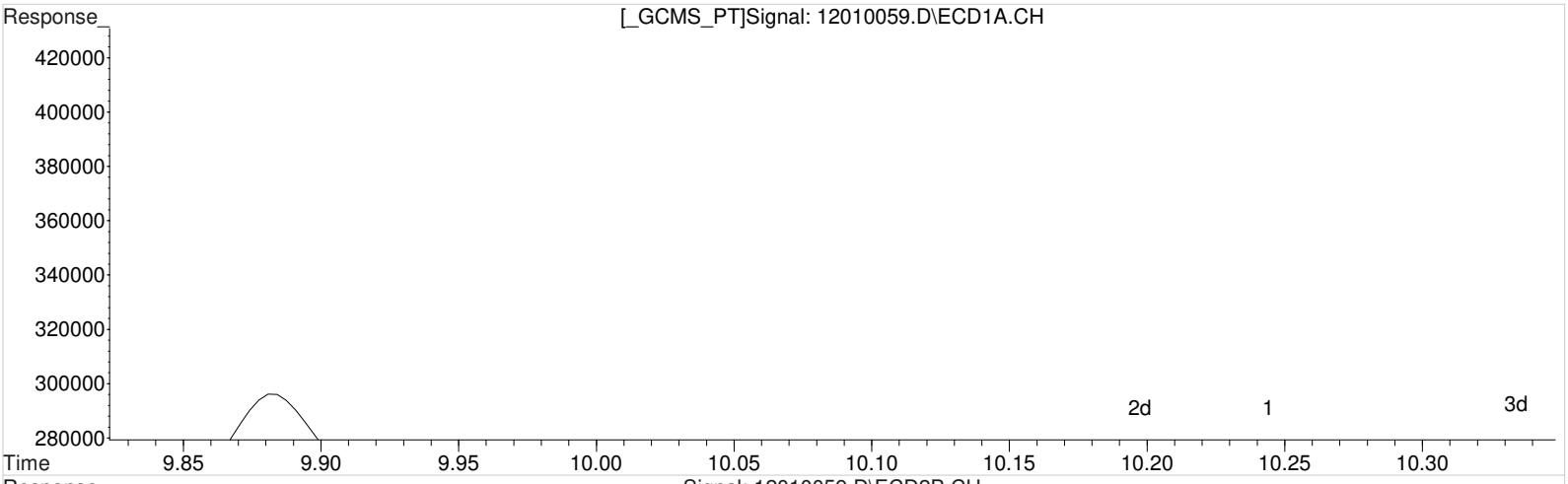
(+) = Expected Retention Time

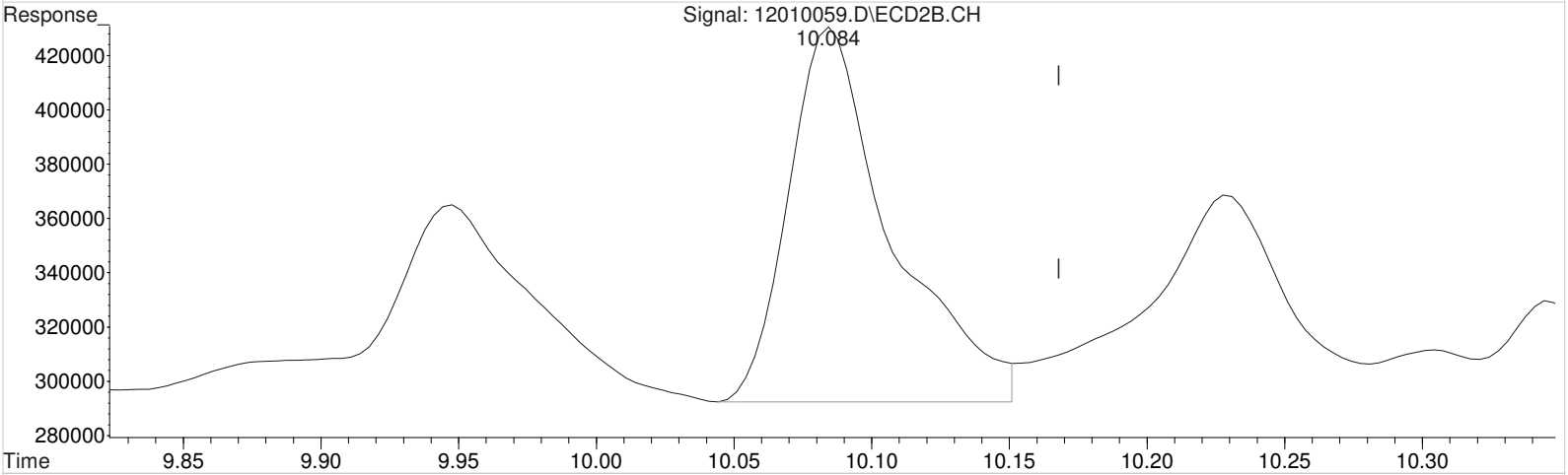
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:00 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.244min 0.086 ppb

response 8091

(8) 2,4,5-TP (Silvex) #2 (m)

10.084min 1.765 ppb

response 358264

Manual Integration:

Before

12/02/20

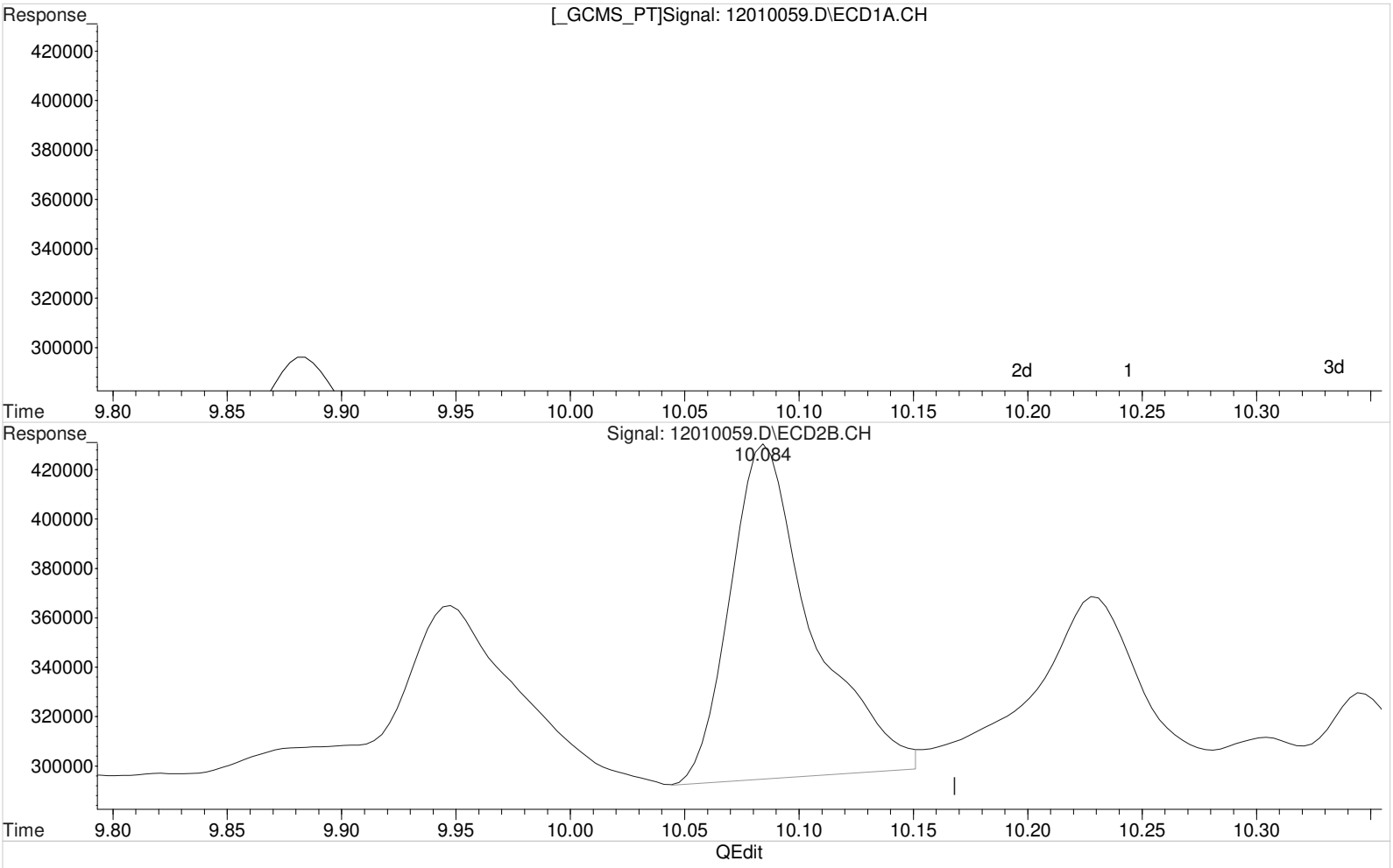
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010059.D Vial: 64
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:28 pm Operator: UA
Sample : K2010456-012 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:28:45 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



QEdit

(8) 2,4,5-TP (Silvex) (m)

10.244min 0.086 ppb

response 8091

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.084min 1.666 ppb m

response 338232

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010029.D\
Lab ID: K2010456-013
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 04:01:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010029.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 04:01:00	**Vial:**	5
Run Type:	N/A	**Dilution:**	5
Lab ID:	K2010456-013	**Raw Units:**	ppb

Bottle ID:	K2010456-013.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	256638	1008377	14.104	23.840	71	119	71	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	10.13 -0.01	9267	23365	0.099	0.115	1.4U	1.6U	21 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	13242	50824	0.623	0.993	8.9U	14U	67 U	Y

Prep Amount:	30.008 g	**Dilution:**	5
Prep Final Amount:	50.00 mL	**Basis Factor:**	58.20

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: 12/3/20 17:17
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:52:38 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...	7.993	7.826	256638	1008377	14.104	23.840m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.283	9.036	13242	50824	0.623	0.993m#
8) m	2,4,5-TP ...	10.256	10.133	9267	23365	0.099	0.115
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

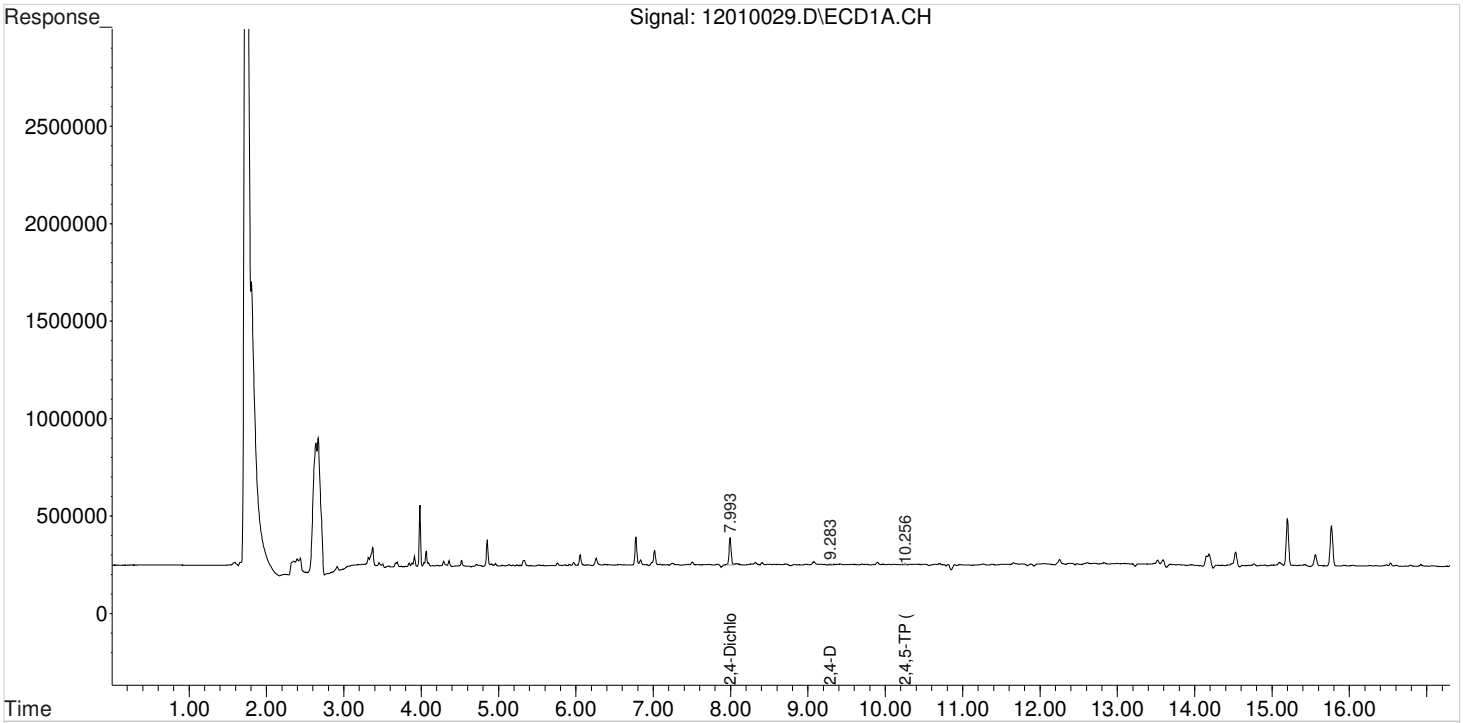
Quantitation Report (QT Reviewed)

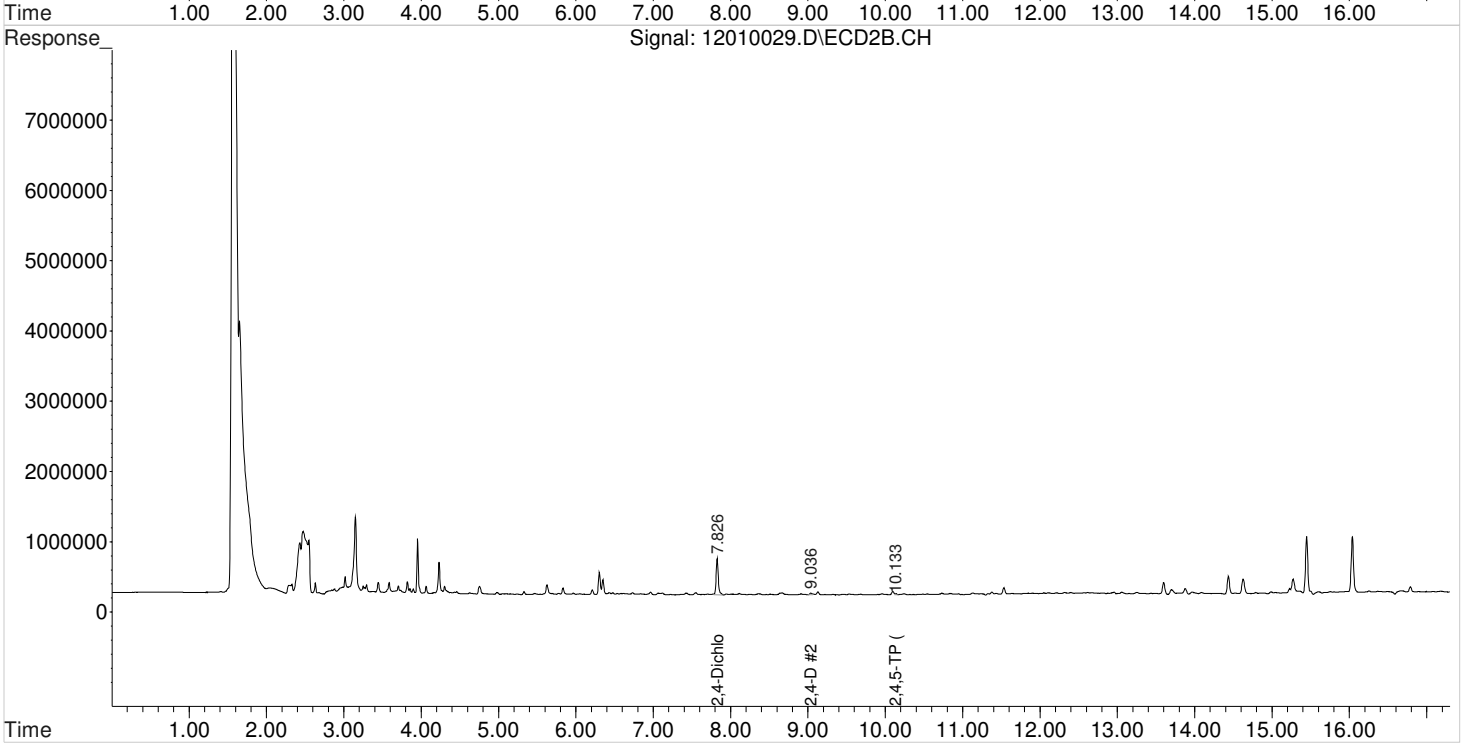
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:52:38 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



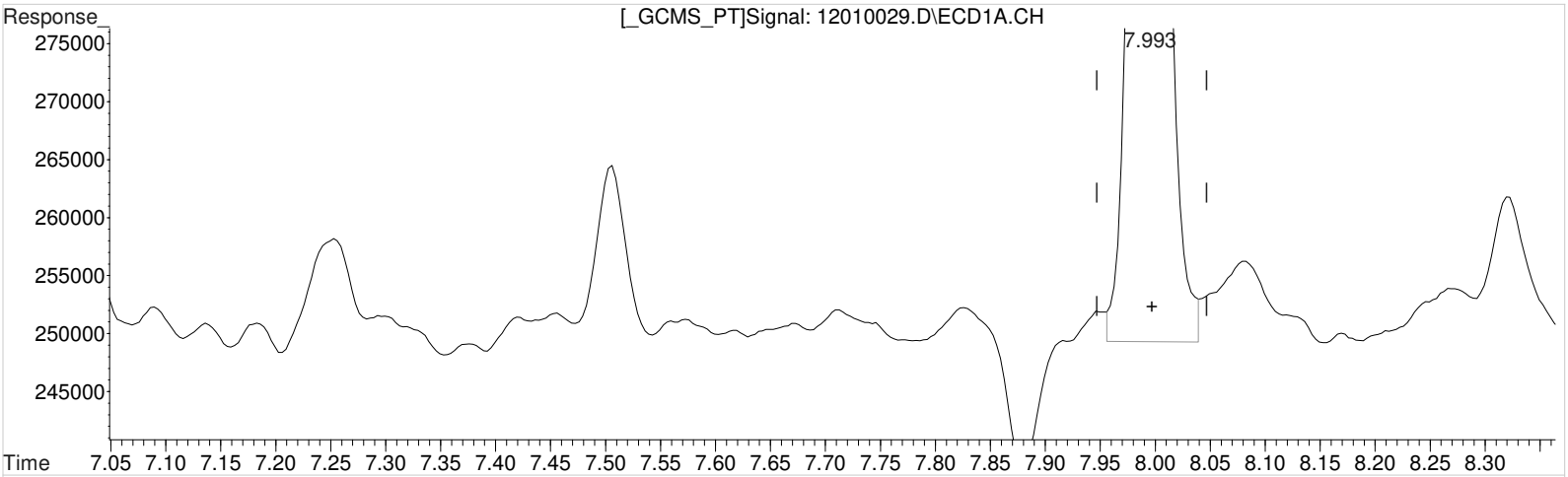


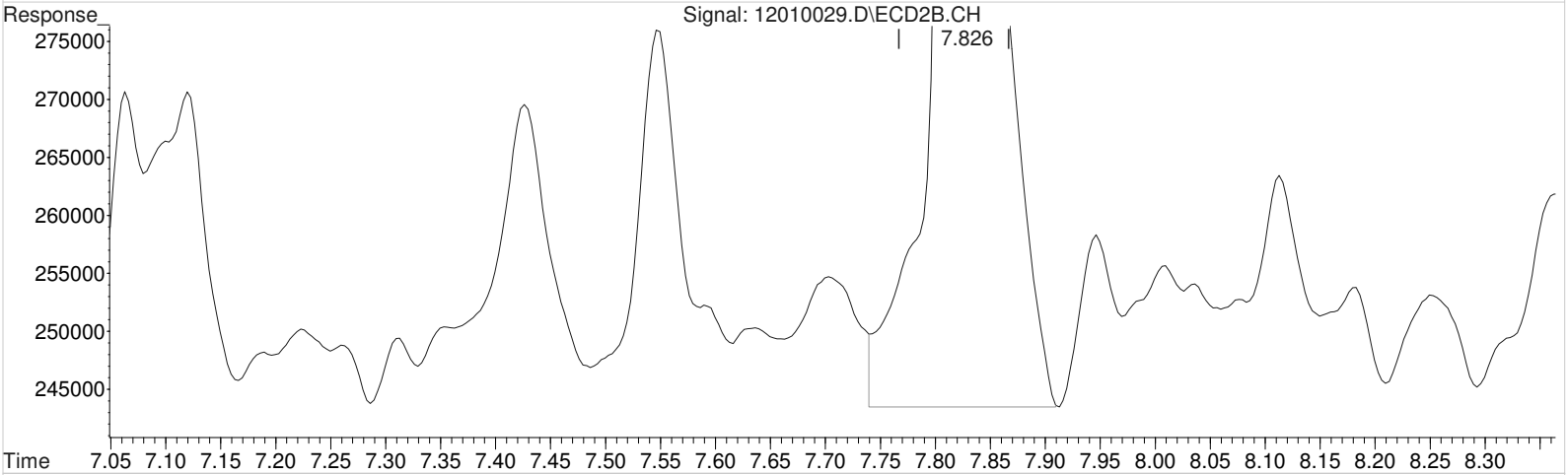
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:49 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





QEdit

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

7.993min 14.104 ppb

response 256638

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

7.826min 24.935 ppb

response 1054682

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

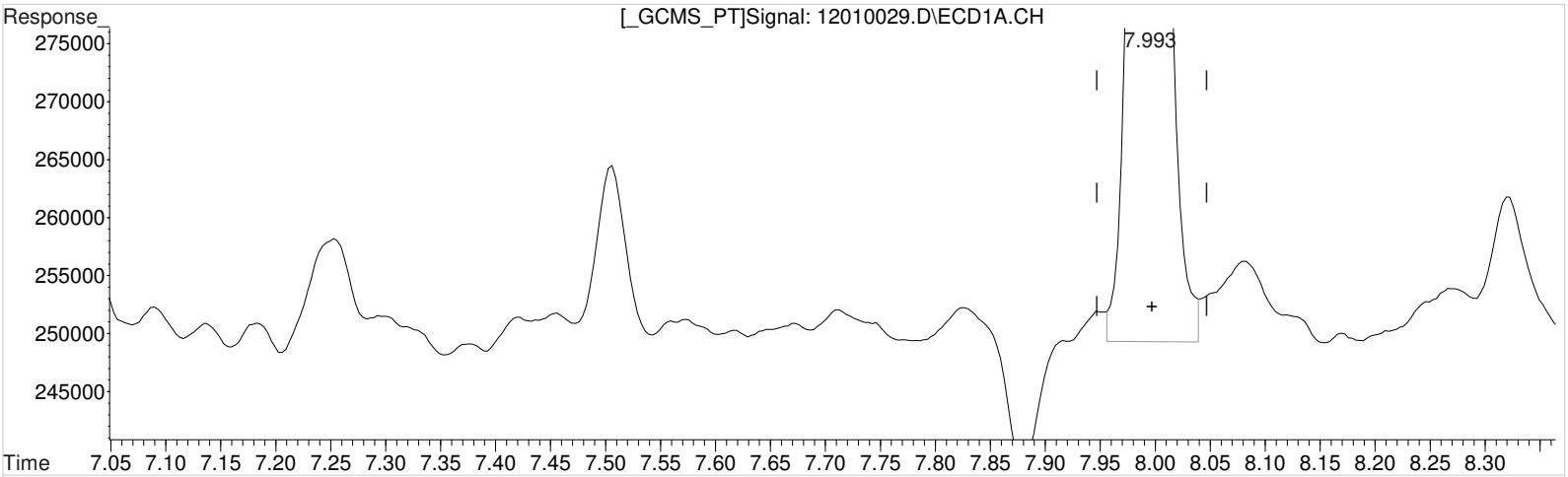
Quantitation Report (Qedit)

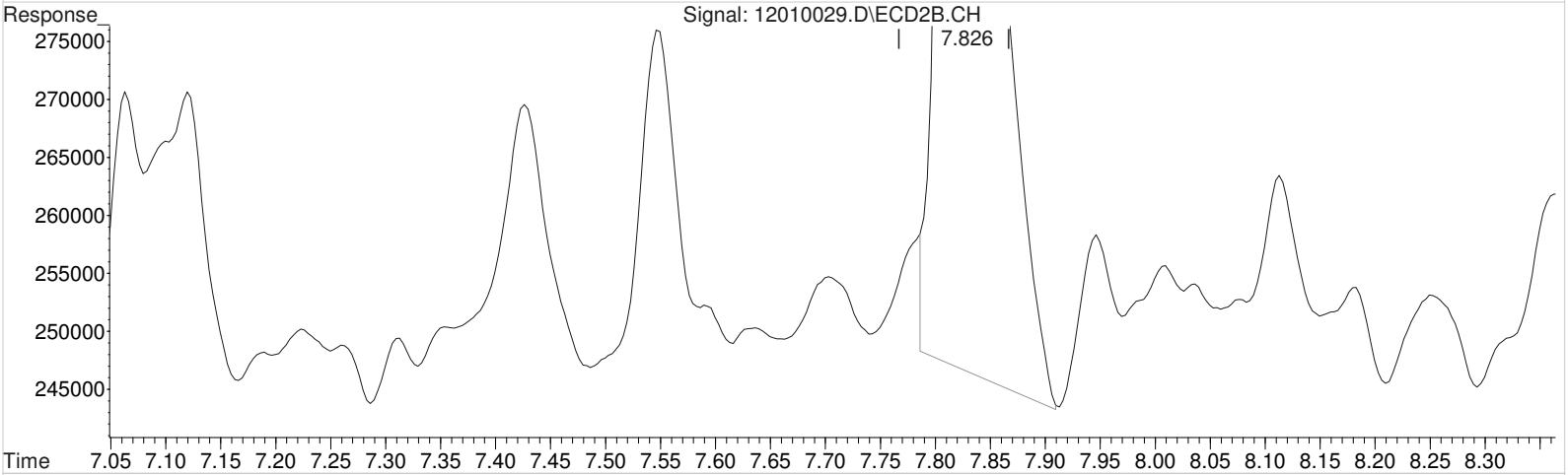
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:49 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





QEdit

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

7.993min 14.104 ppb

response 256638

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.826min 23.840 ppb m

response 1008377

(+) = Expected Retention Time

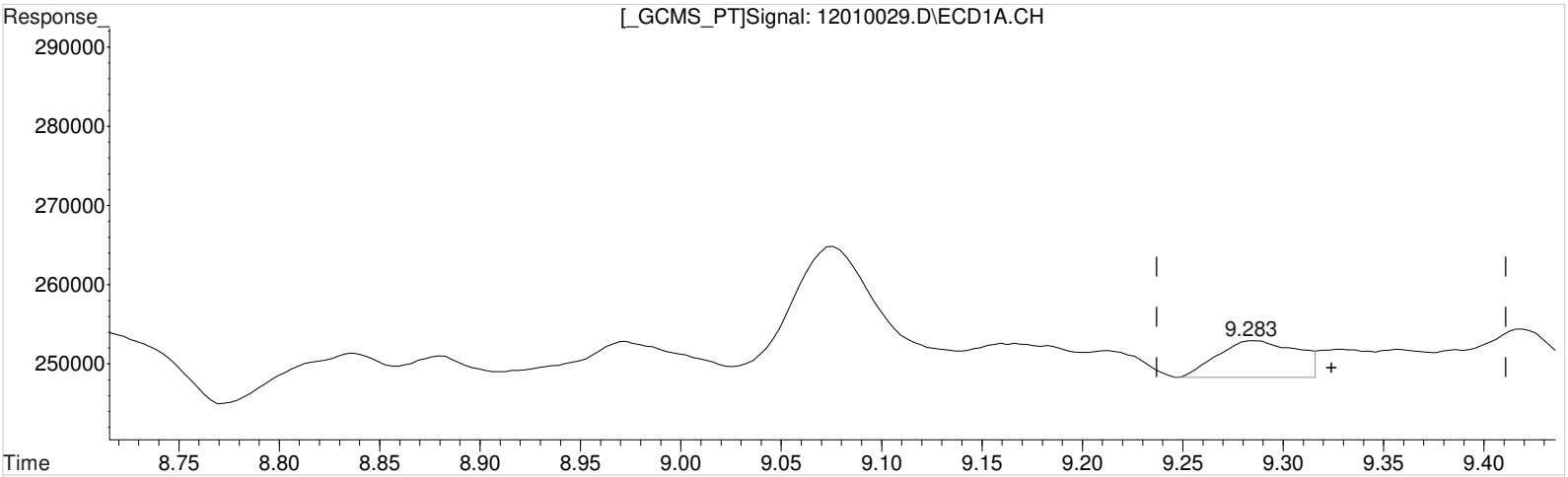
Quantitation Report (Qedit)

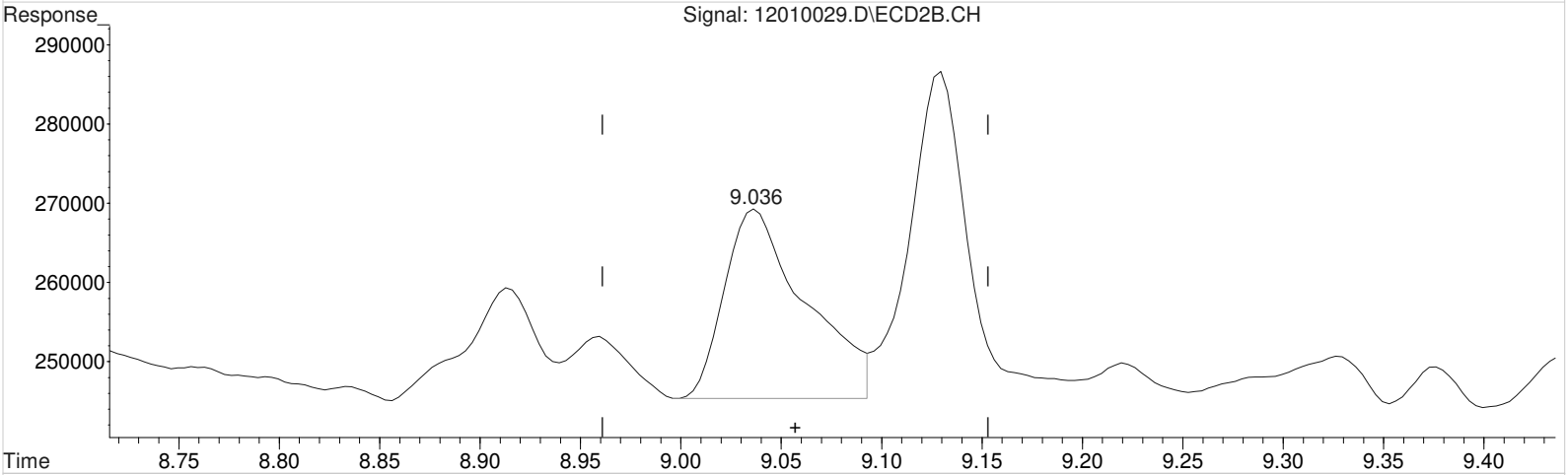
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:49 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





QEdit

(7) 2,4-D (m)

9.283min 0.623 ppb

response 13242

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.036min 1.321 ppb

response 67654

(+) = Expected Retention Time

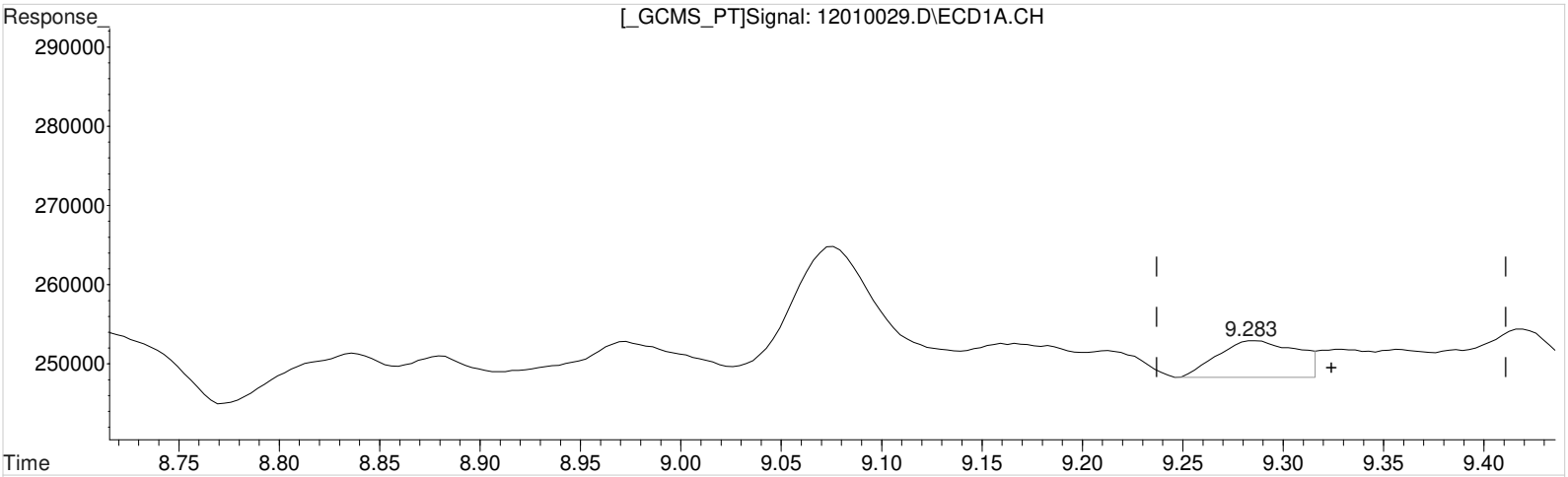
Quantitation Report (Qedit)

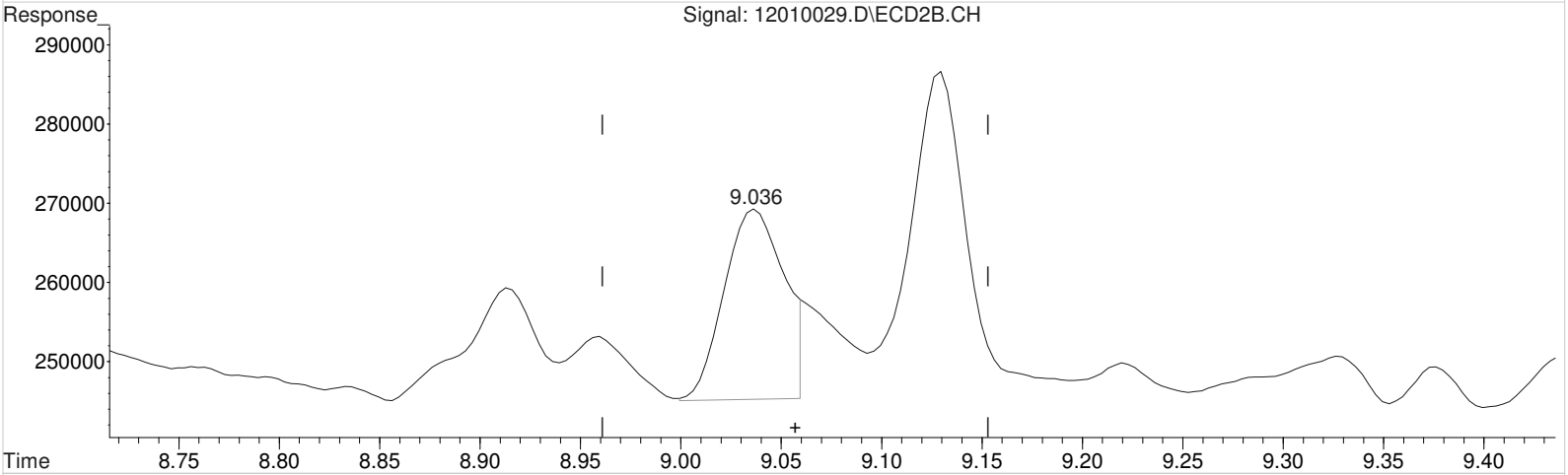
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010029.D Vial: 71
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:01 am Operator: UA
Sample : K2010456-013 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:49 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





QEdit

(7) 2,4-D (m)

9.283min 0.623 ppb

response 13242

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.036min 0.993 ppb m

response 50824

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010030.D\
Lab ID: K2010456-014
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 04:24:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010030.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 04:24:00	**Vial:**	6
Run Type:	N/A	**Dilution:**	5
Lab ID:	K2010456-014	**Raw Units:**	ppb

Bottle ID:	K2010456-014.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	197835	903926	10.872	21.370	54	107	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	10.25 -0.01	10.13 -0.01	6165	15232	0.066	0.075	0.98U	1.1U	22 U	Y
2,4-D	9.33 +0.01	9.04 -0.03	901	71440	0.042	1.395	0.62U	21U	69 U	Y

Prep Amount:	30.141 g	**Dilution:**	5
Prep Final Amount:	50.00 mL	**Basis Factor:**	56.00

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:56:23 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	7.824	197835	903926	10.872	21.370m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.334	9.041	901	71440	0.042m	1.395 #
8) m	2,4,5-TP ...	10.251	10.134	6165	15232	0.066	0.075
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

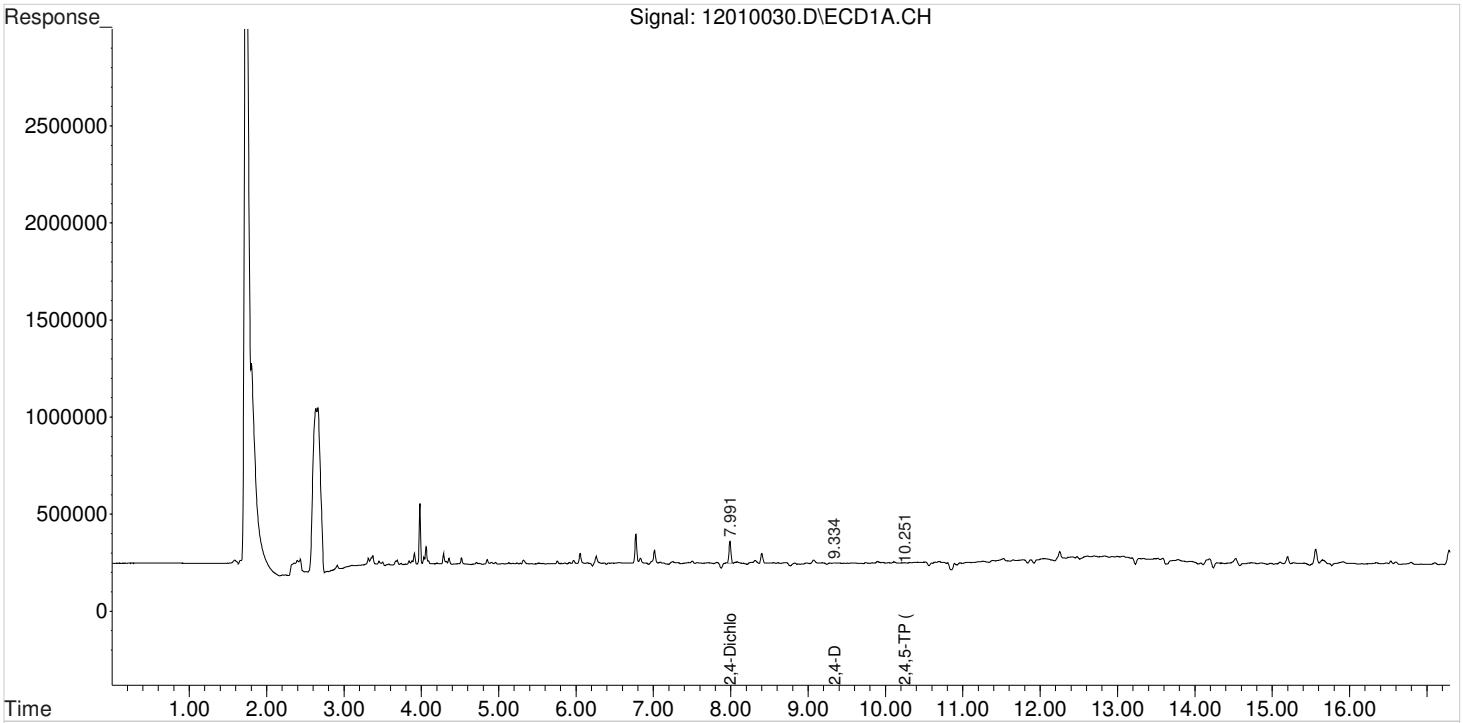
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

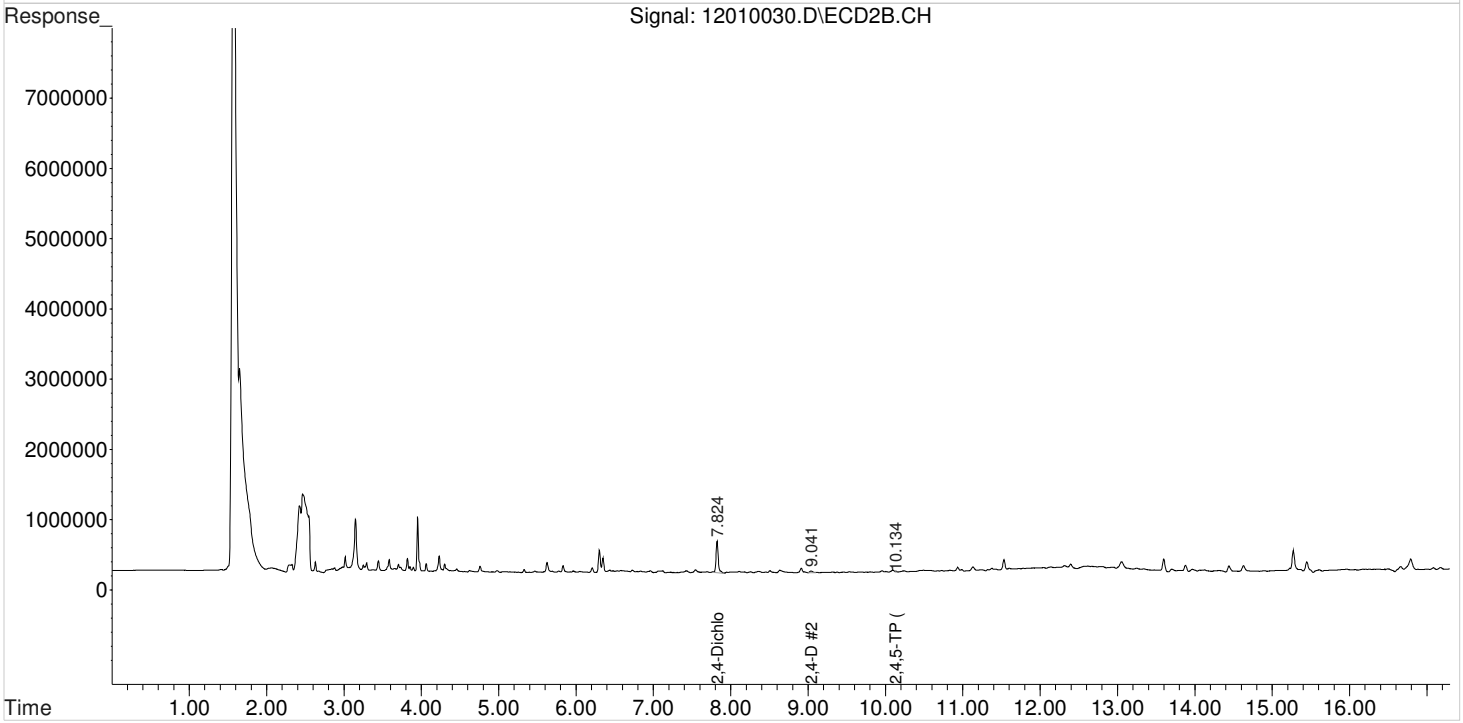
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:56:23 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



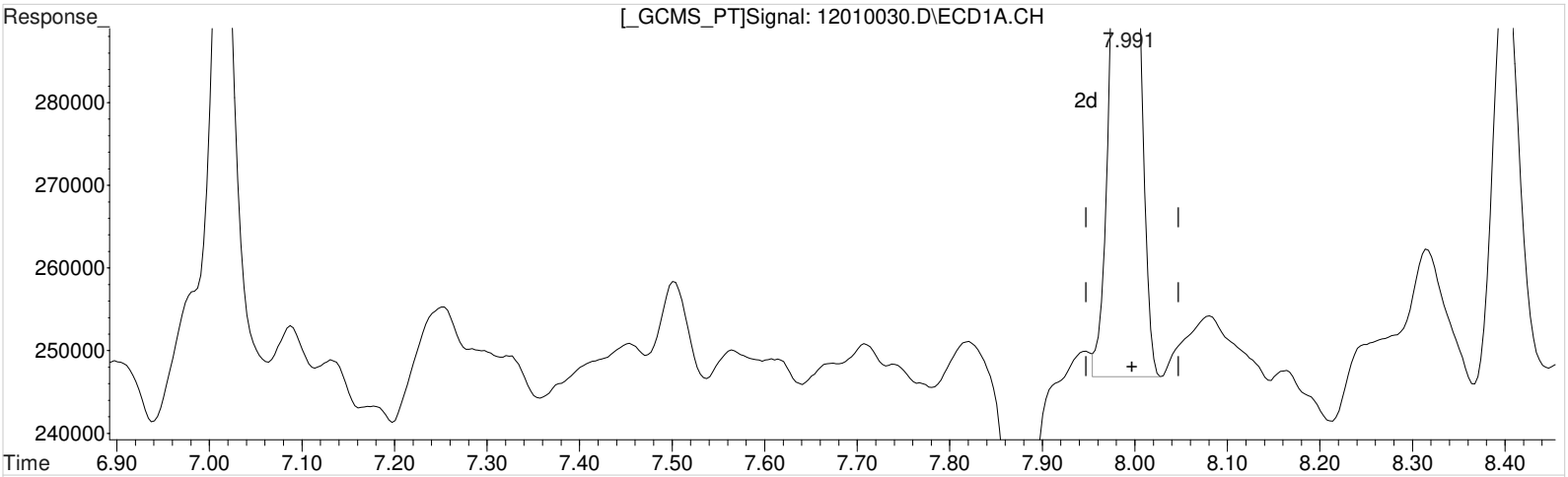


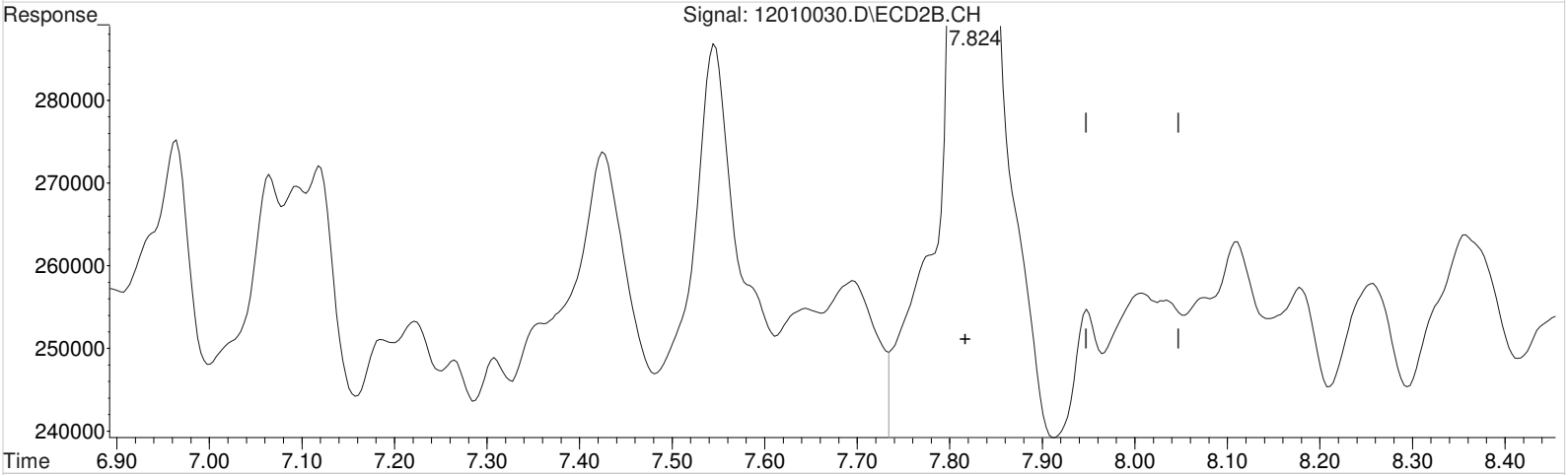
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:52 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





QEdit

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

7.991min 10.872 ppb

response 197835

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

7.824min 23.341 ppb

response 987279

Manual Integration:

Before

12/02/20

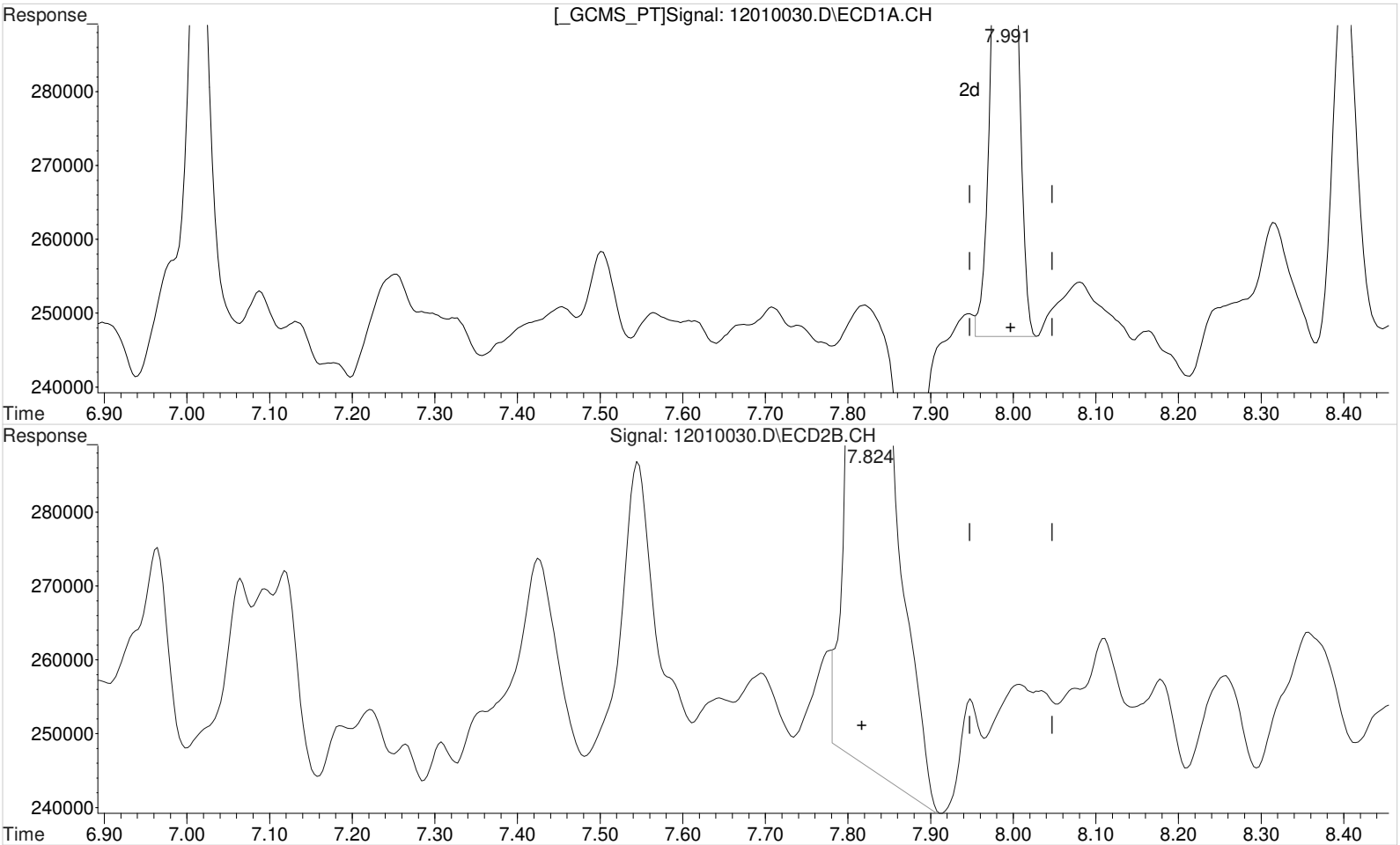
(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:52 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



QEdit

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

7.991min 10.872 ppb

response 197835

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 21.370 ppb m

response 903926

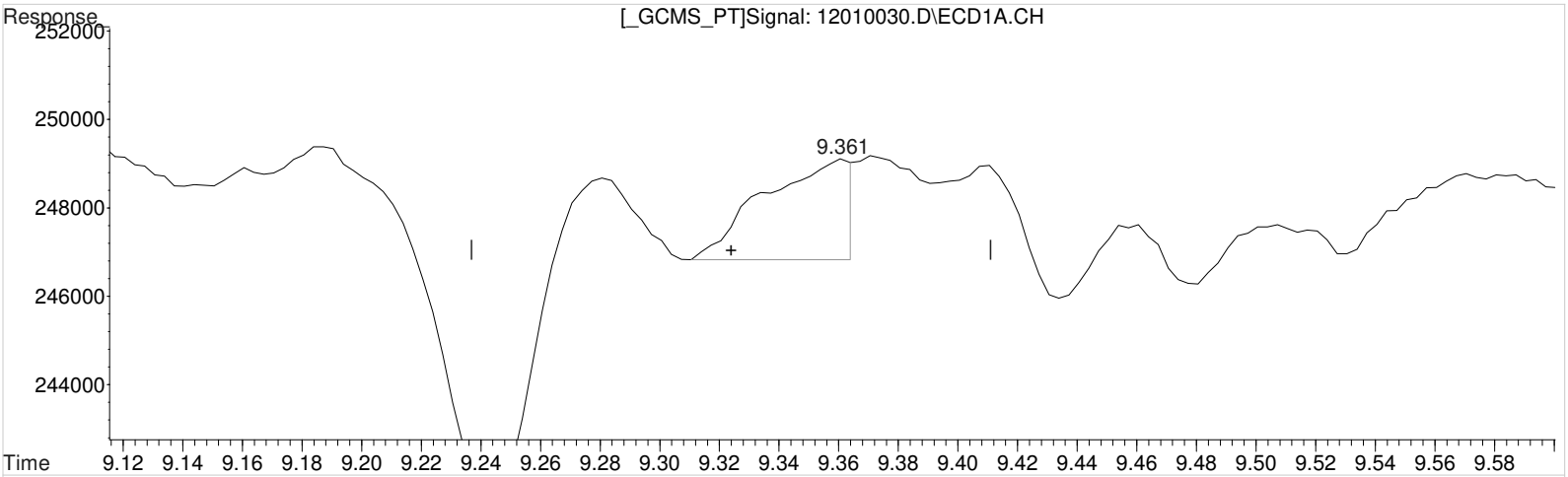
(+) = Expected Retention Time

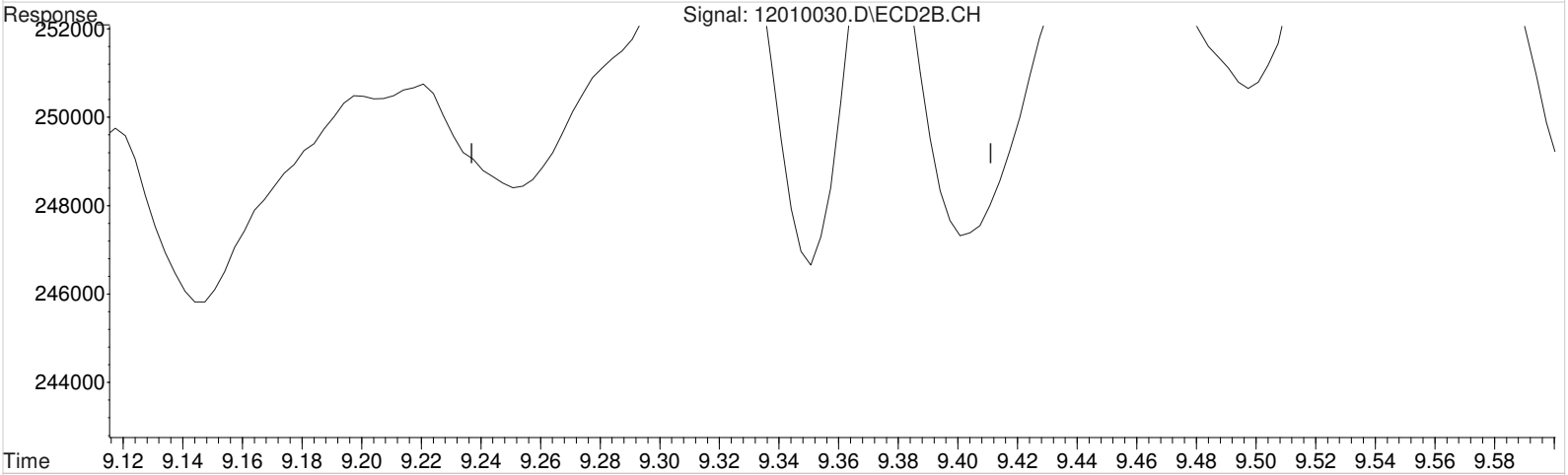
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:52 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





QEdit

(7) 2,4-D (m)

9.361min 0.217 ppb

response 4600

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.041min 1.395 ppb

response 71440

(+) = Expected Retention Time

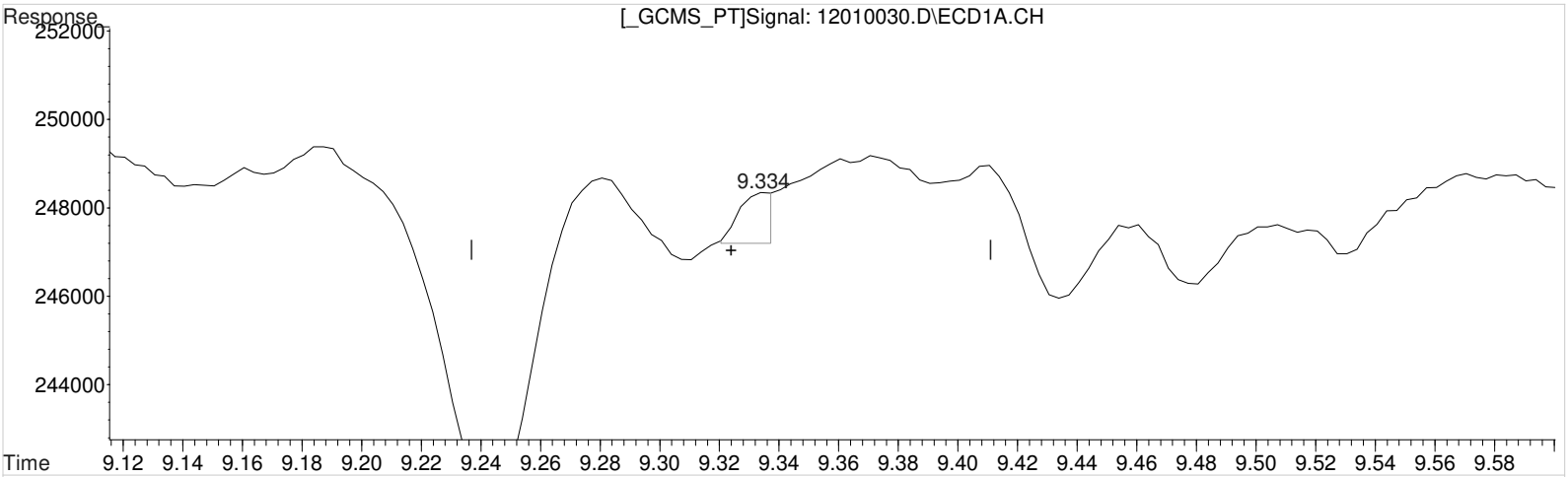
Quantitation Report (Qedit)

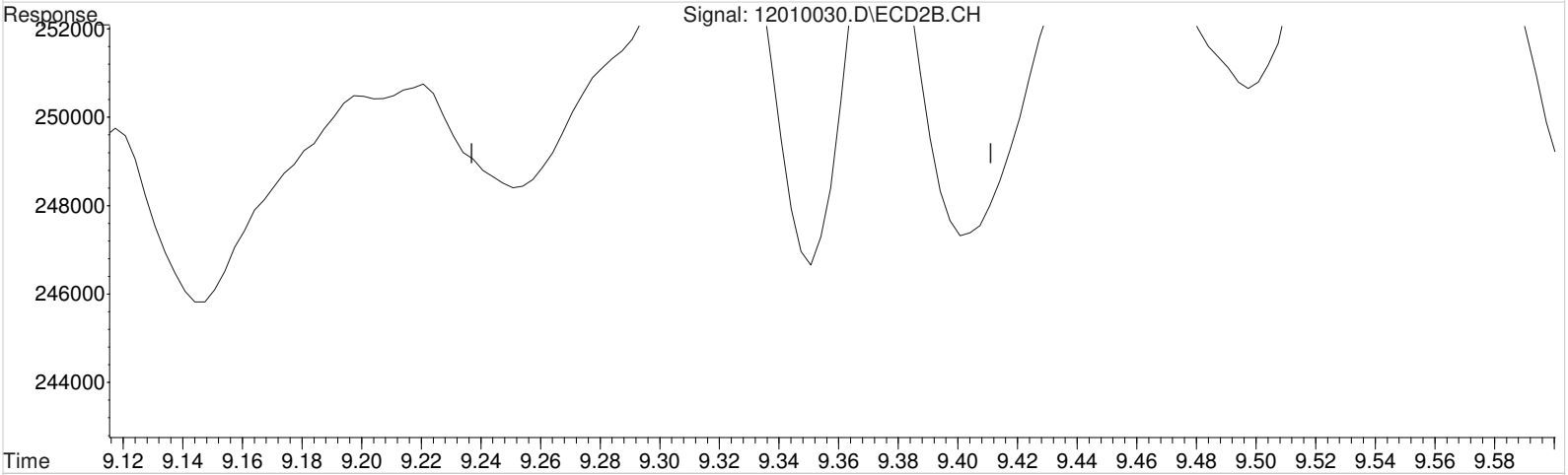
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010030.D Vial: 72
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:24 am Operator: UA
Sample : K2010456-014 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:52 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





QEdit

(7) 2,4-D (m)

9.334min 0.042 ppb m

response 901

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.041min 1.395 ppb

response 71440

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010031.D\
Lab ID: K2010456-015
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 04:47:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010031.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 04:47:00	**Vial:**	7
Run Type:	N/A	**Dilution:**	5
Lab ID:	K2010456-015	**Raw Units:**	ppb

Bottle ID:	K2010456-015.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	223044	923654	12.257	21.837	61	109	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	10.26	10.13 -0.01	2015	11415	0.022	0.056	0.30U	0.76U	20 U	Y
2,4-D	9.36 +0.04	9.04 -0.03	1105	54476	0.052	1.064	0.71U	14U	63 U	Y

Prep Amount:	30.110 g	**Dilution:**	5
Prep Final Amount:	50.00 mL	**Basis Factor:**	61.00

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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\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
Sample : K2010456-015 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:57:56 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...	7.990	7.824	223044	923654	12.257m	21.837m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.360	9.040	1105	54476	0.052	1.064 #
8)	m	2,4,5-TP ...	10.257	10.127	2015	11415	0.022	0.056 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
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Quant Title : 103118_8151.m MJ215 CAL_KC1800
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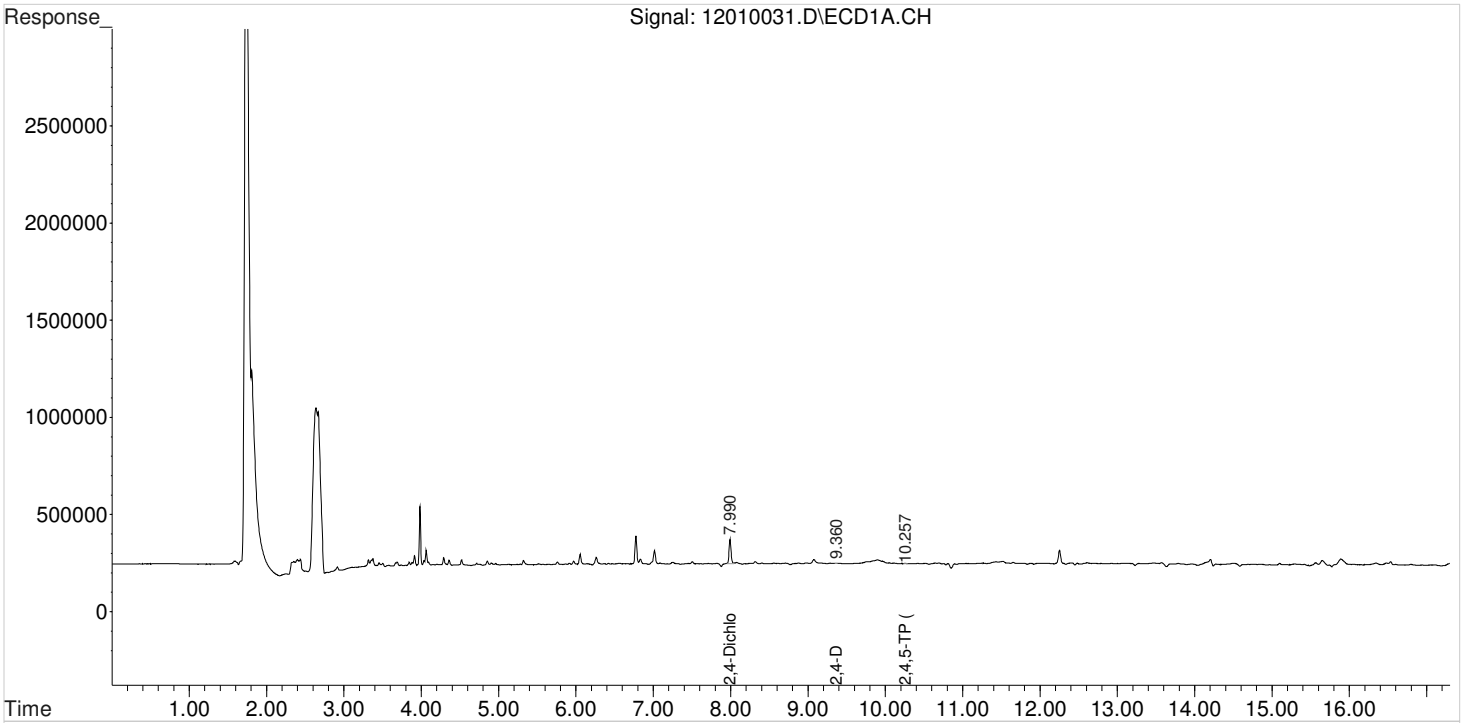
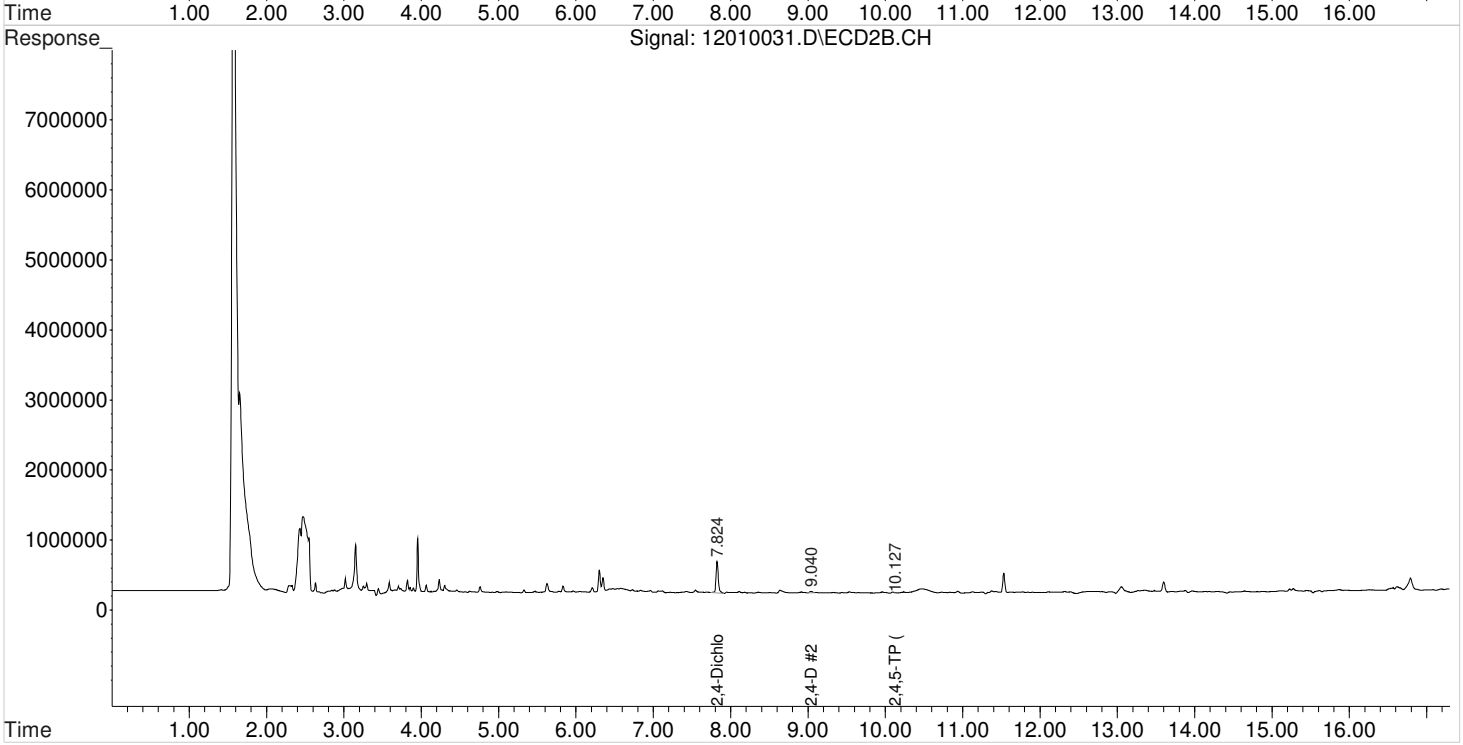
DataAcq Meth:8151A-17.M

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





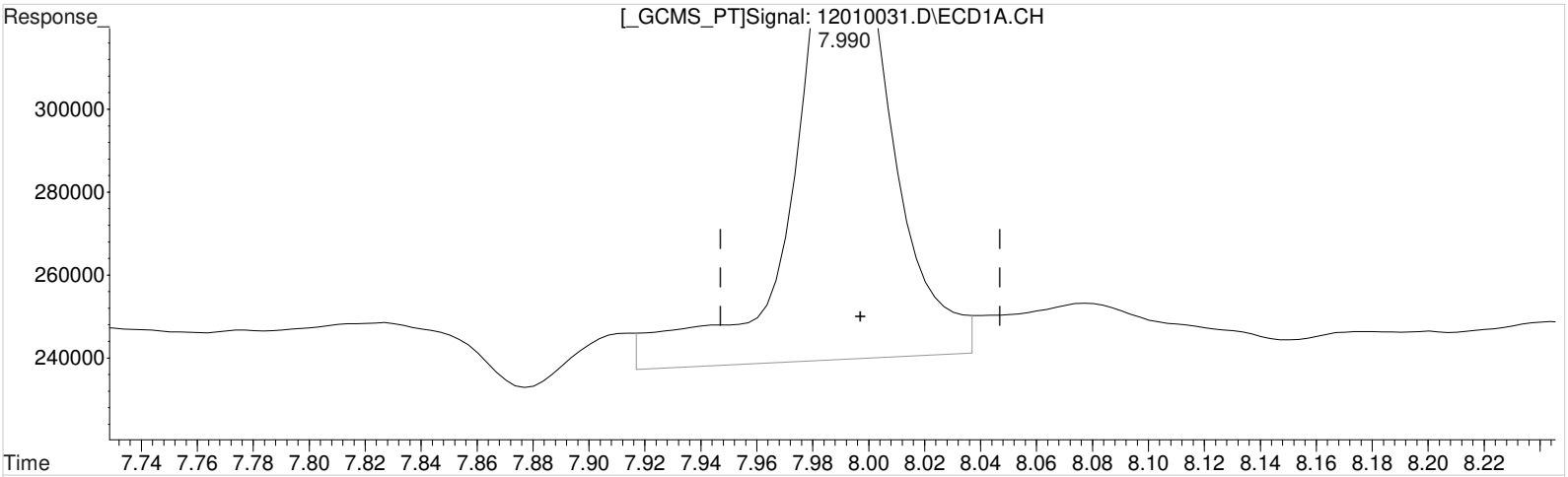
Quantitation Report (Qedit)

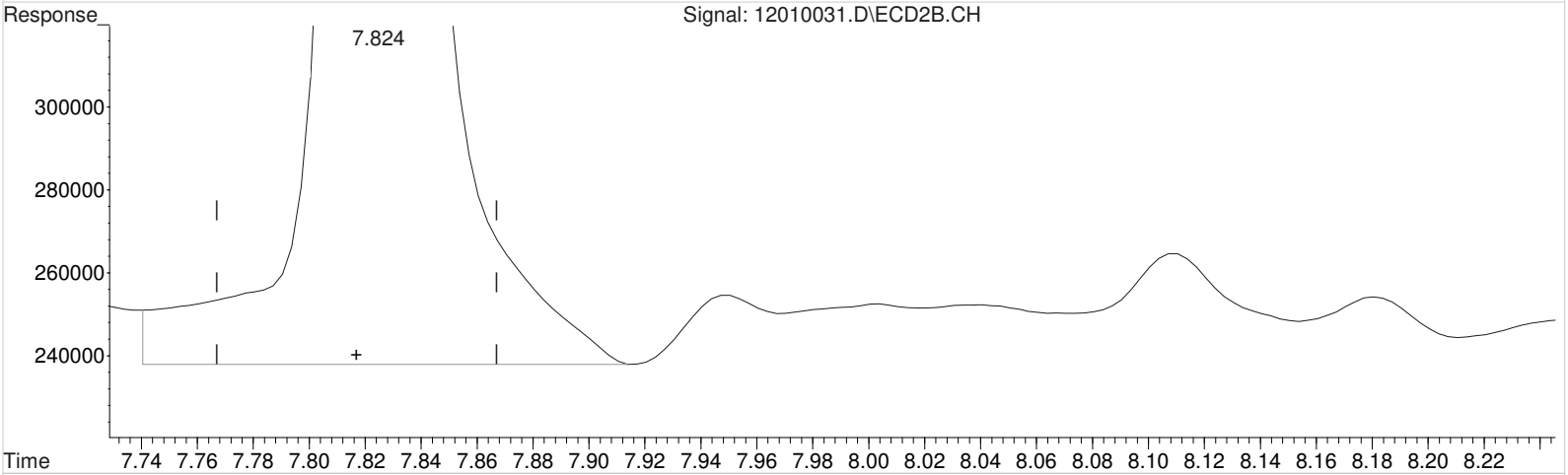
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
Sample : K2010456-015 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:55 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





QEdit

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

7.990min 15.504 ppb

response 282112

Manual Integration:

Before

12/02/20

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

7.824min 23.392 ppb

response 989424

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
Sample : K2010456-015 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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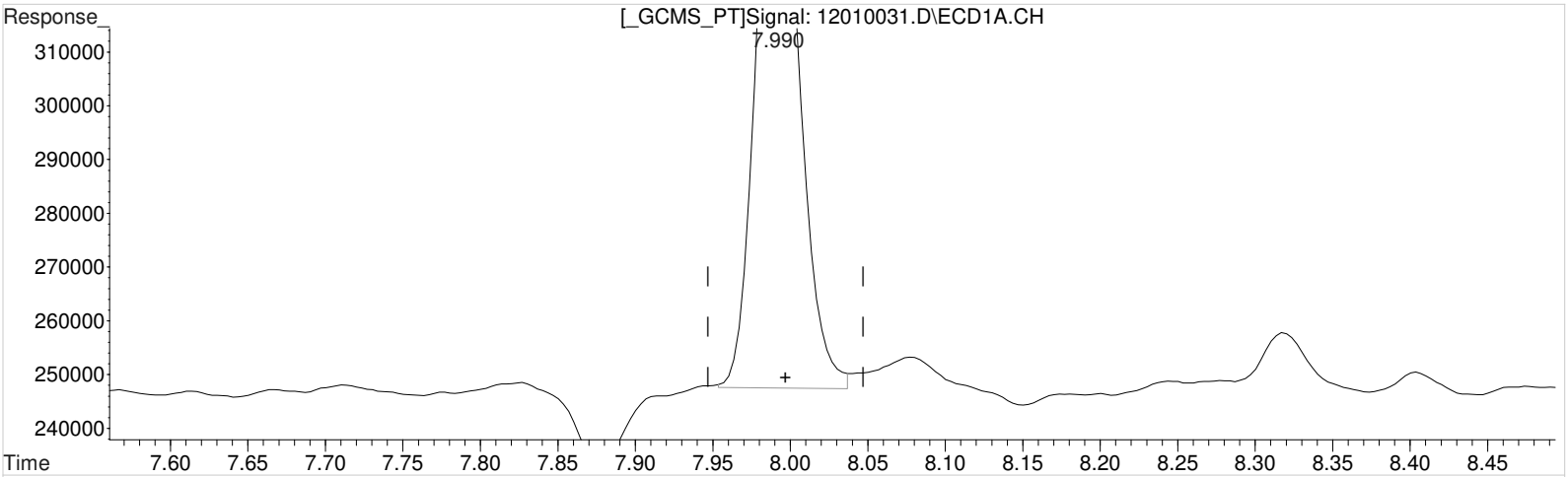
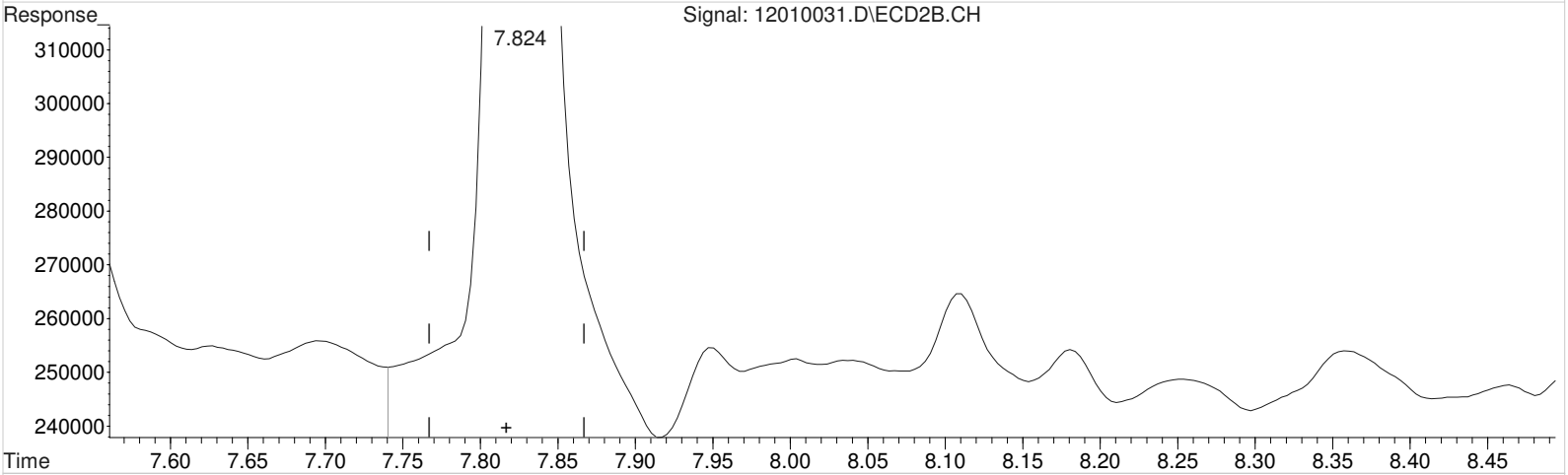
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.990min 12.257 ppb m

response 223044

Manual Integration:

Before

12/02/20

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

7.824min 23.392 ppb

response 989424

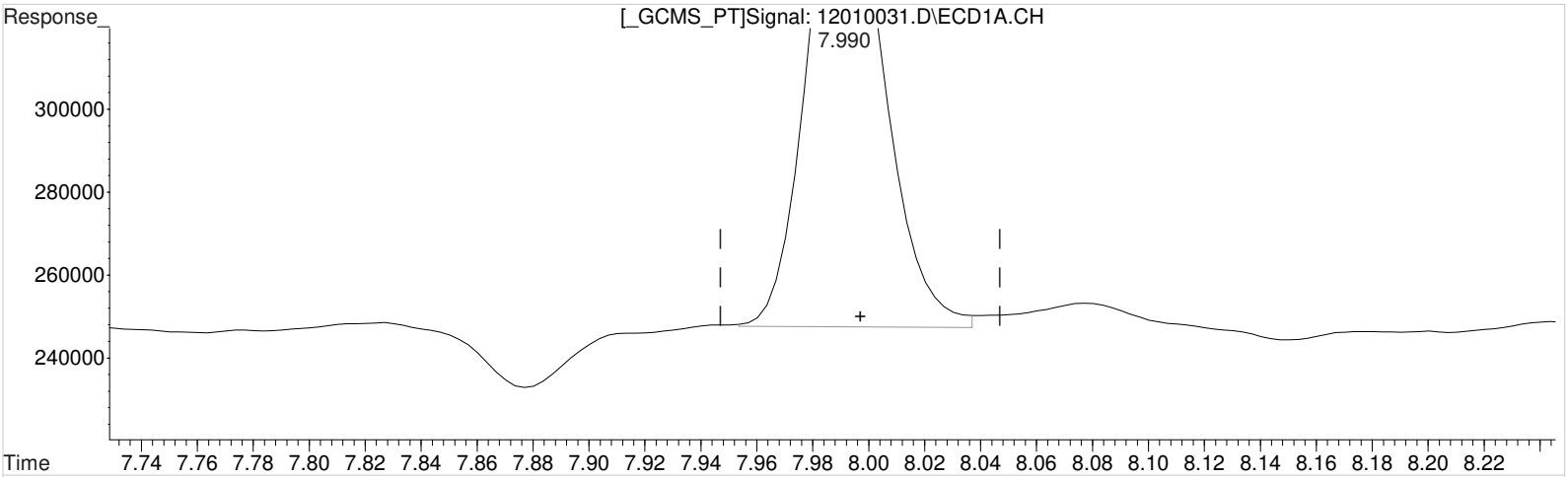
(+) = Expected Retention Time

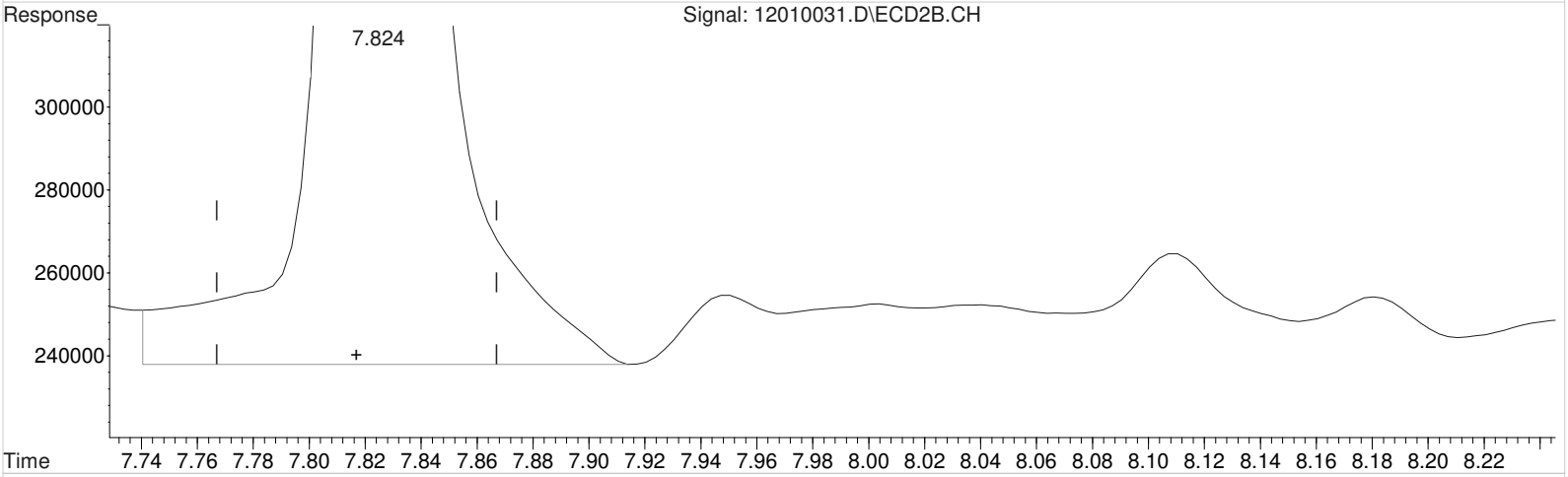
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
Sample : K2010456-015 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:55 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





QEdit

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

7.990min 12.257 ppb m

response 223044

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 23.392 ppb

response 989424

(+) = Expected Retention Time

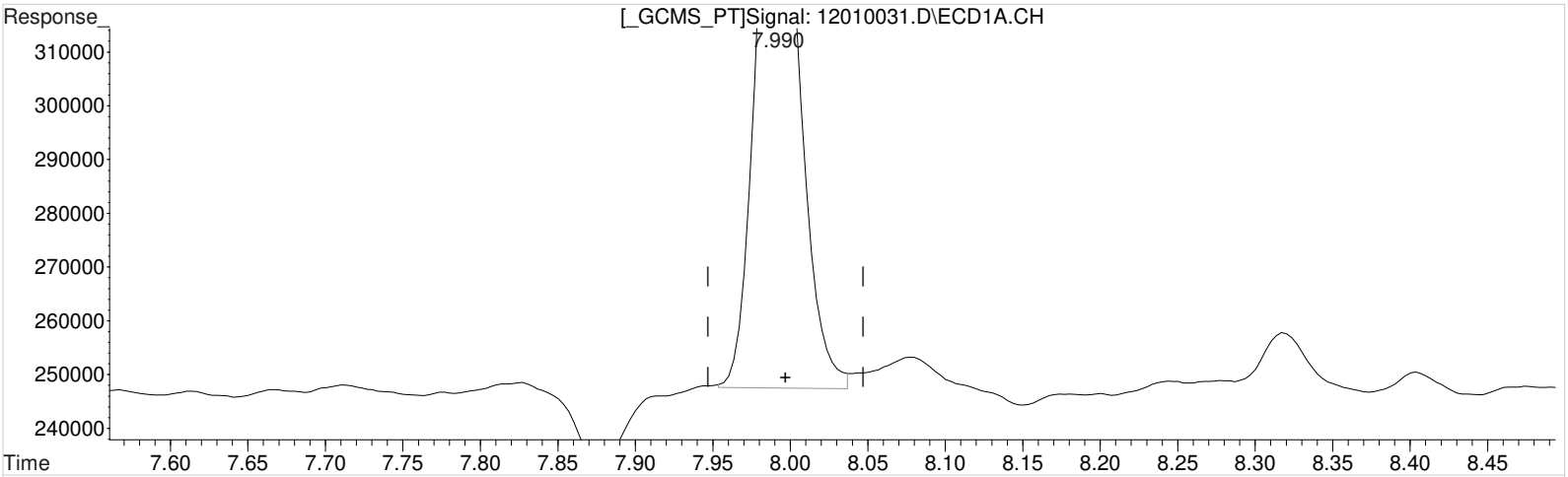
Quantitation Report (Qedit)

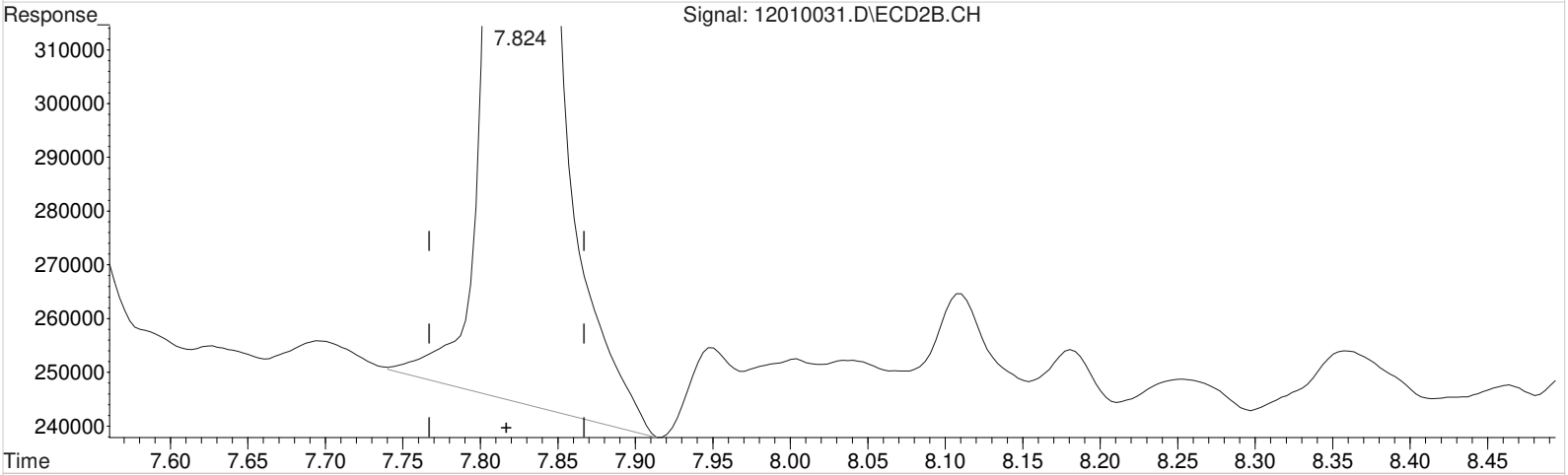
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010031.D Vial: 73
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:47 am Operator: UA
Sample : K2010456-015 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:55 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





QEdit

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

7.990min 12.257 ppb m

response 223044

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 21.837 ppb m

response 923654

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010060.D\
Lab ID: K2010456-016
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 15:51:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010060.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 15:51:00	**Vial:**	39
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-016	**Raw Units:**	ppb

Bottle ID:	K2010456-016.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.82	1058758	4008239	58.184	94.762	58	95	58	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	10.12 -0.01	9218	27192	0.098	0.134 CCV	0.24U	0.33U	3.6 U	Y
2,4-D	9.33 +0.02	9.04 -0.02	2085	130965	0.098	2.558	0.24U	6.3U	12 U	Y

Prep Amount:	30.142 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	67.70

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: 12/3/20 17:23
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:32:55 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...	7.984	7.817	1058758	4008239	58.184m	94.762m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.334	9.041	2085	130965	0.098m	2.558m#
8)	m	2,4,5-TP ...	10.250	10.124	9218	27192	0.098	0.134m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
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Quant Time: Dec 02 18:32:55 2020
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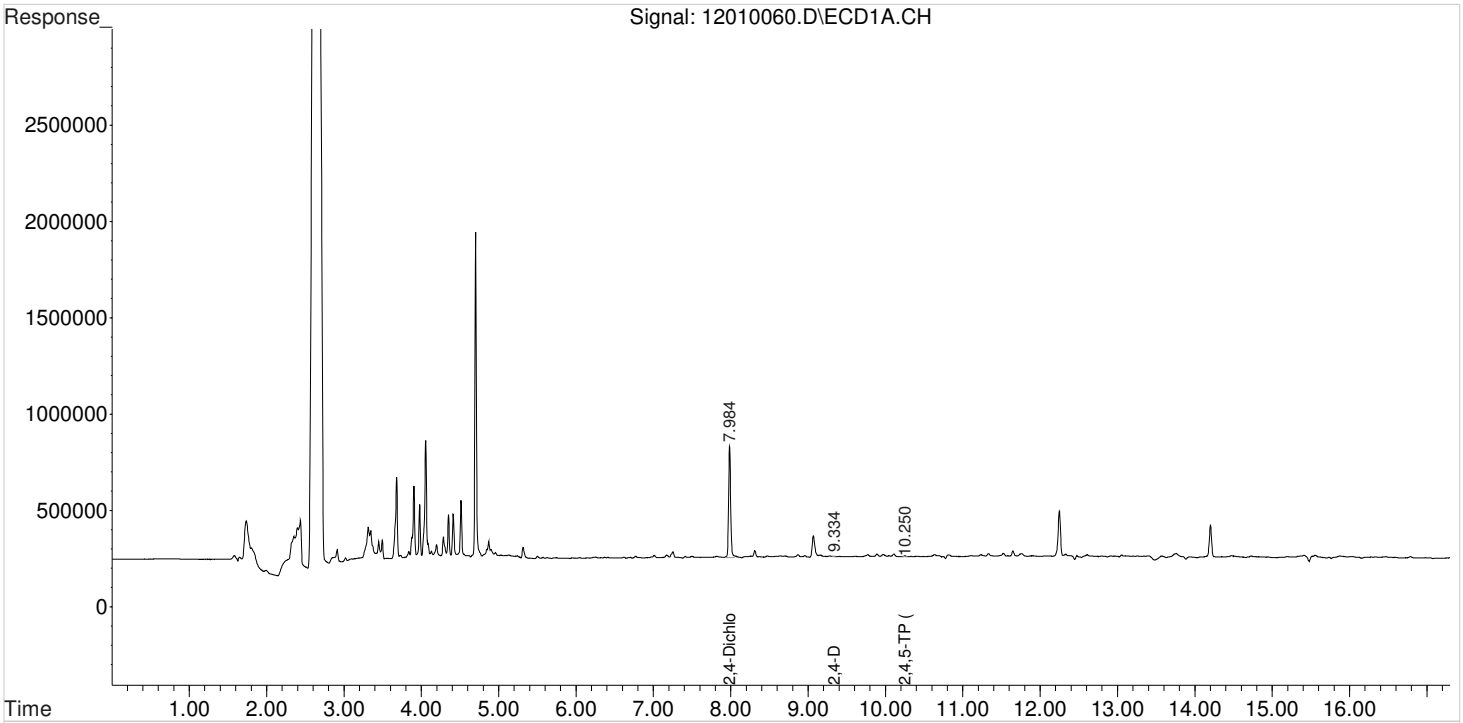
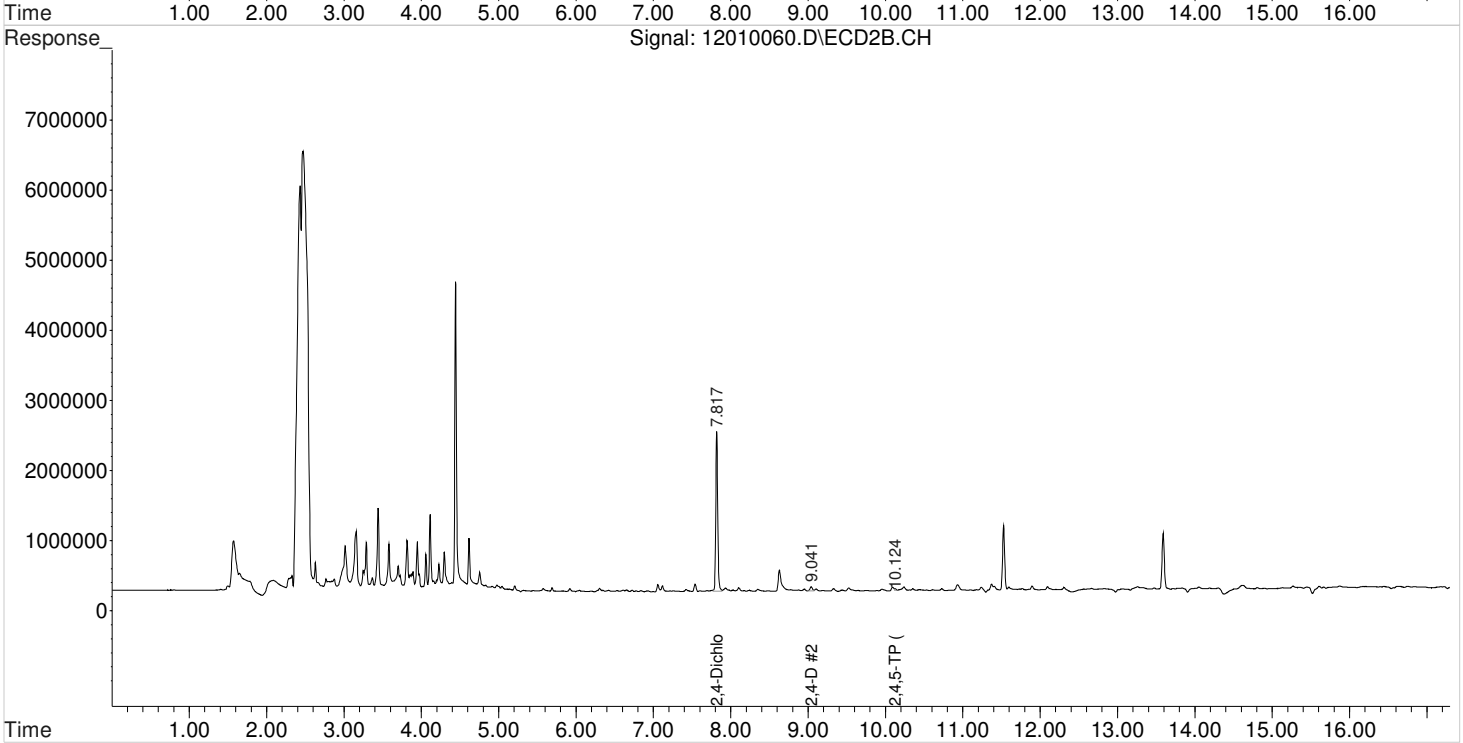
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





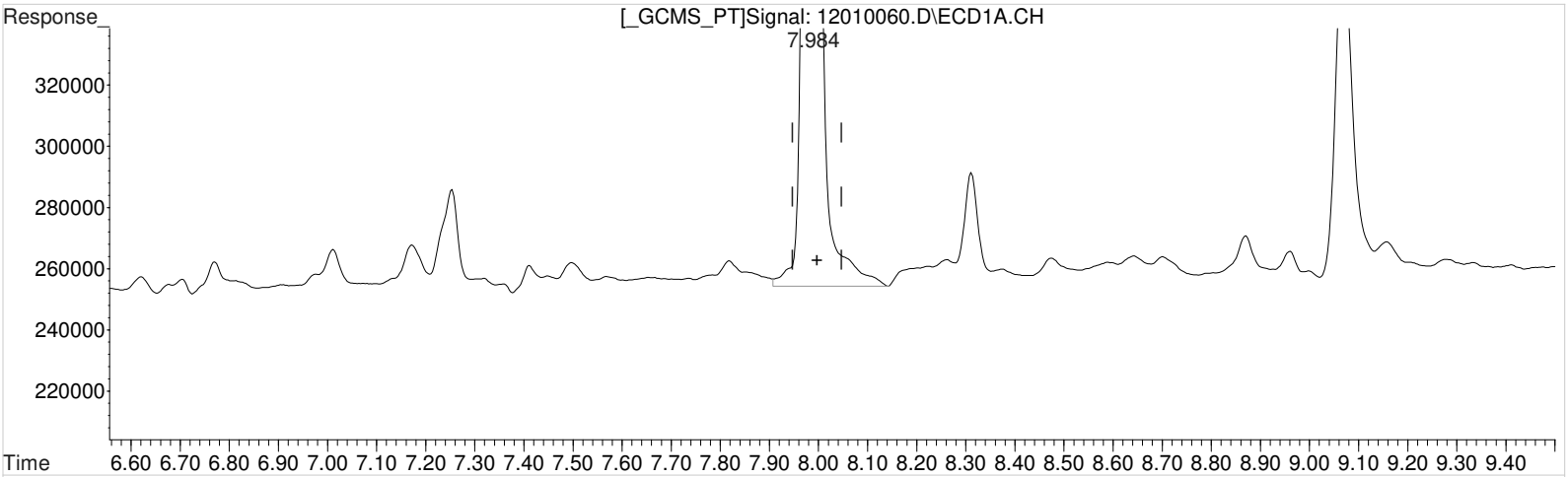
Quantitation Report (Qedit)

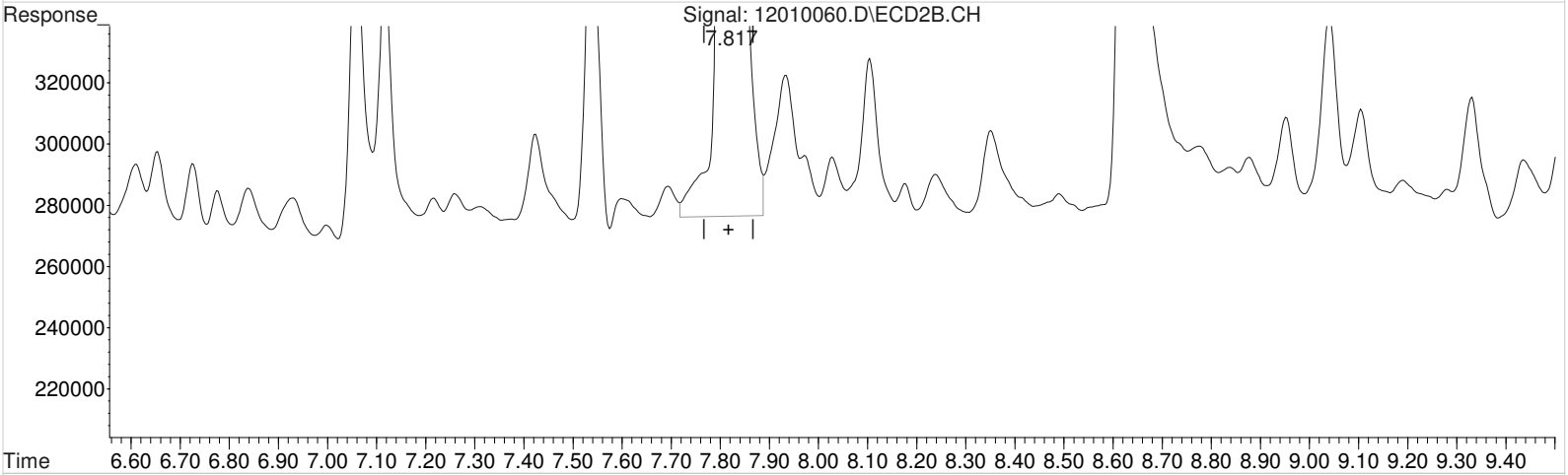
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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





QEdit

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

7.984min 60.578 ppb

response 1102318

Manual Integration:

Before

12/02/20

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

7.817min 96.310 ppb

response 4073692

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
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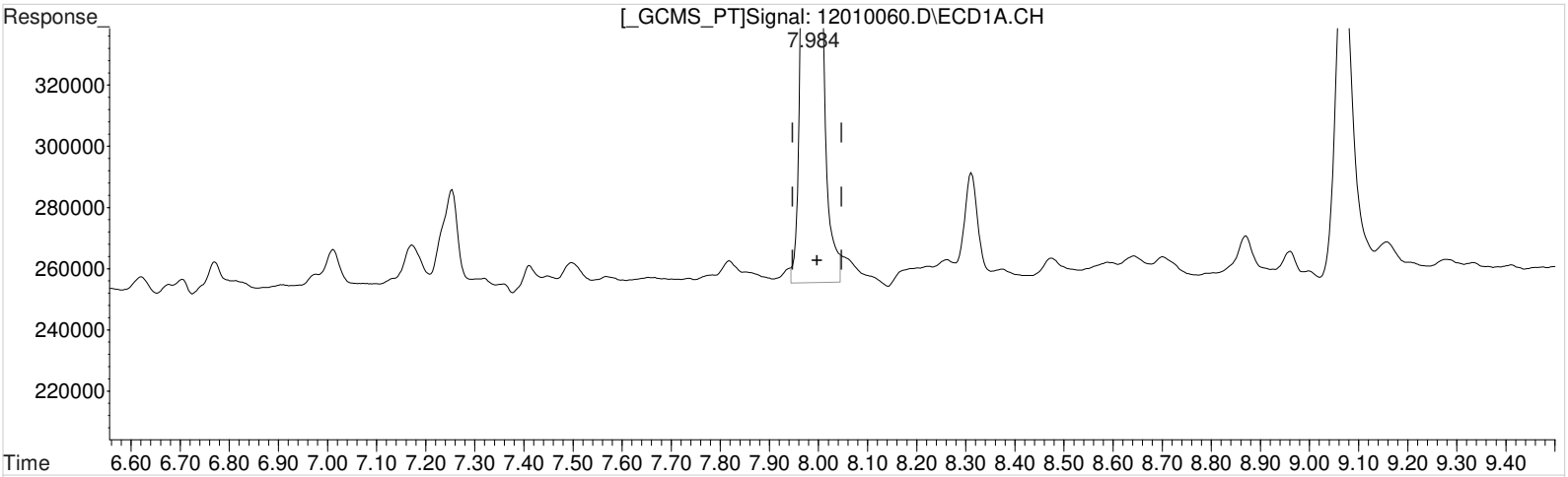
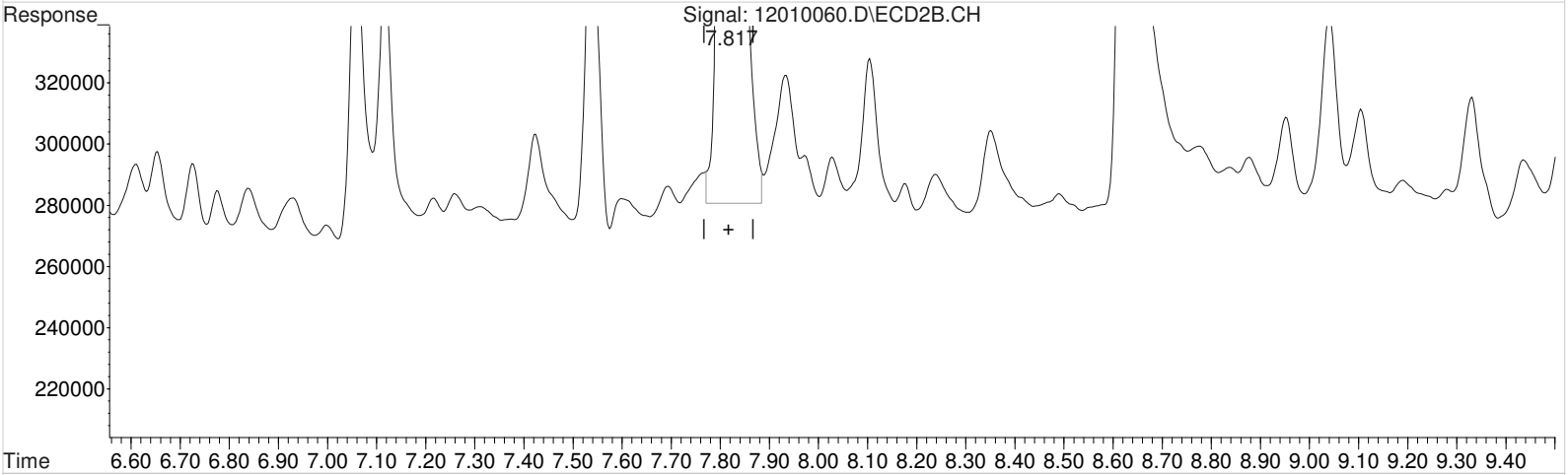
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.984min 58.184 ppb m

response 1058758

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.817min 94.762 ppb m

response 4008239

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
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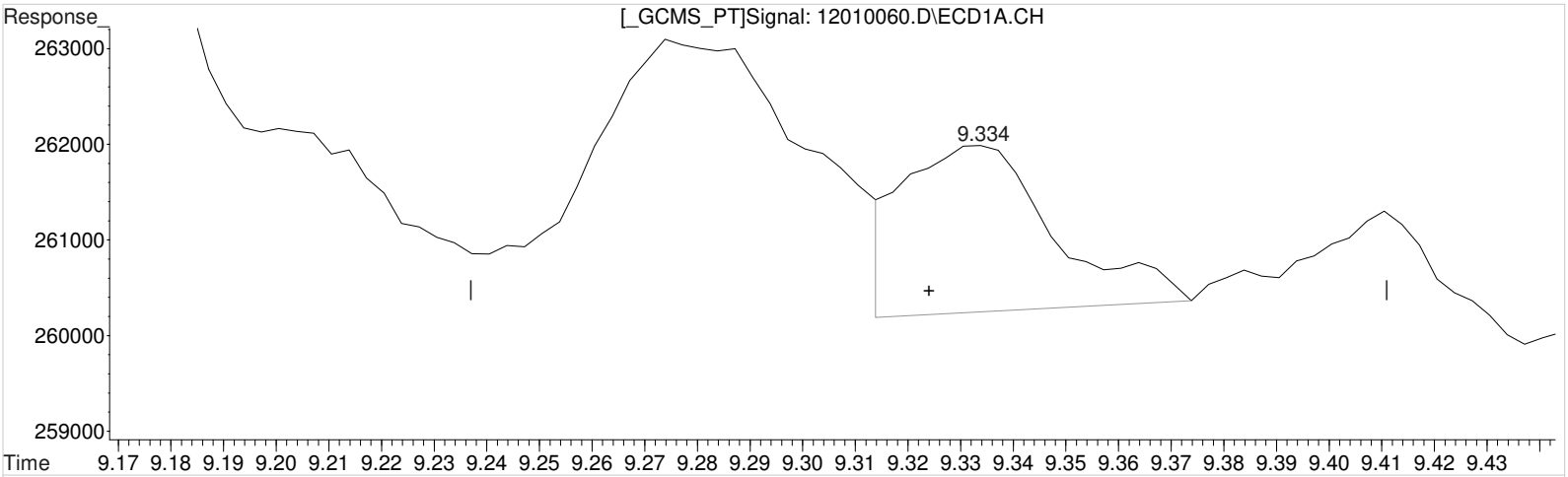
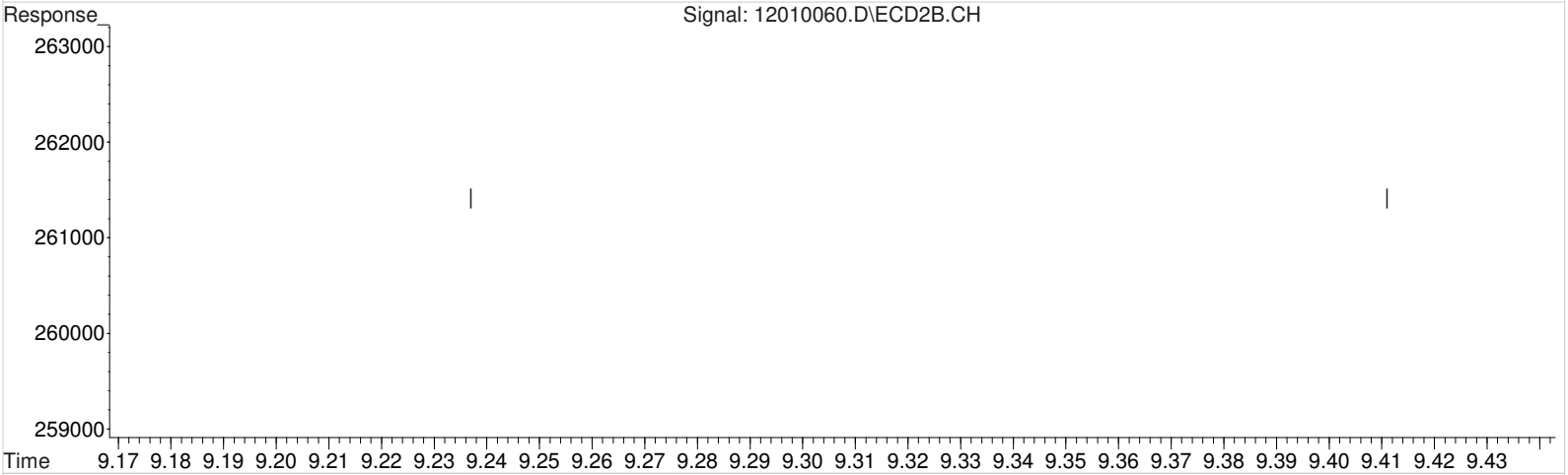
Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

(7) 2,4-D (m)

9.334min 0.162 ppb

response 3436

(7) 2,4-D #2 (m)

9.041min 2.785 ppb

response 142571

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

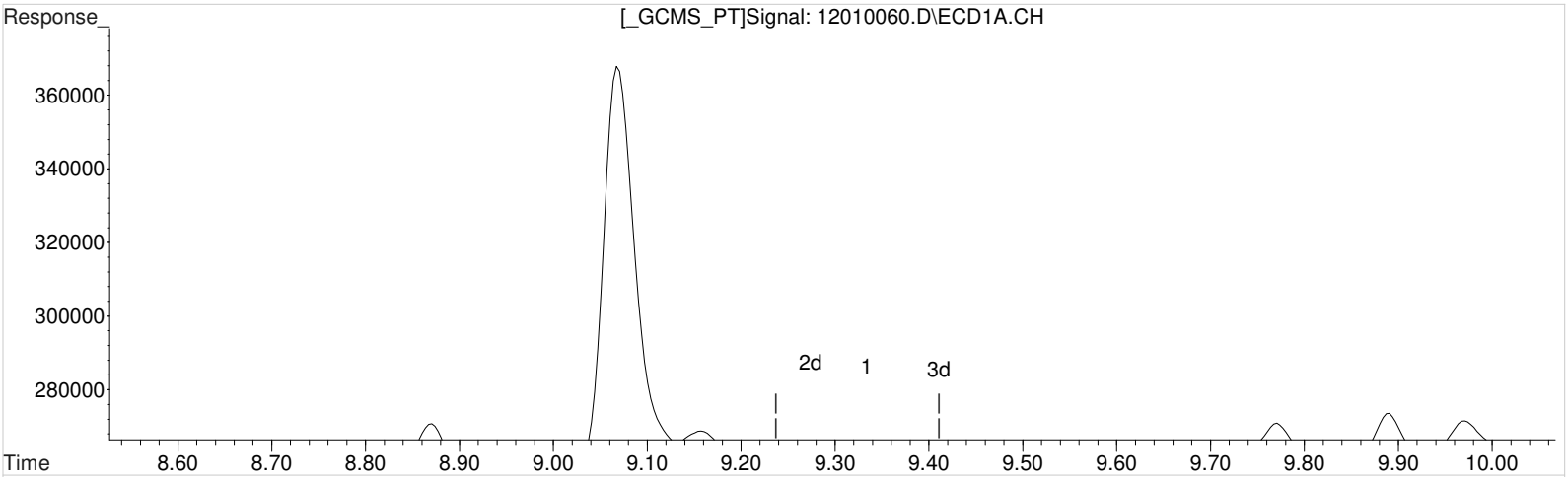
Quantitation Report (Qedit)

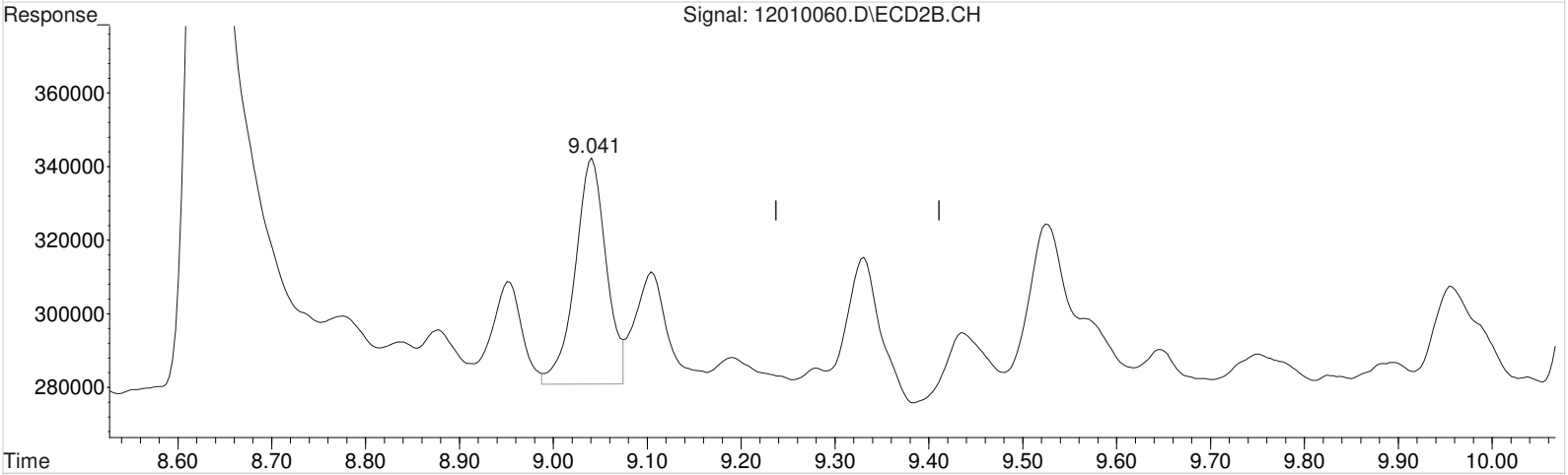
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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





QEdit

(7) 2,4-D (m)

9.334min 0.098 ppb m

response 2085

(7) 2,4-D #2 (m)

9.041min 2.785 ppb

response 142571

Manual Integration:

Before

12/02/20

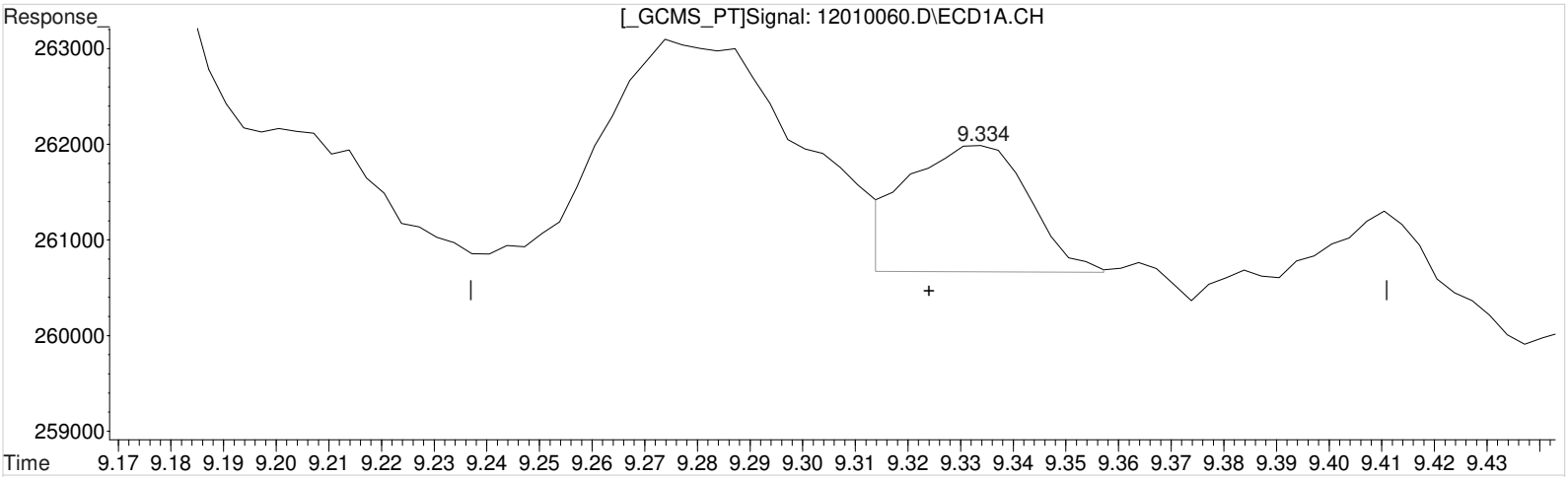
(+) = Expected Retention Time

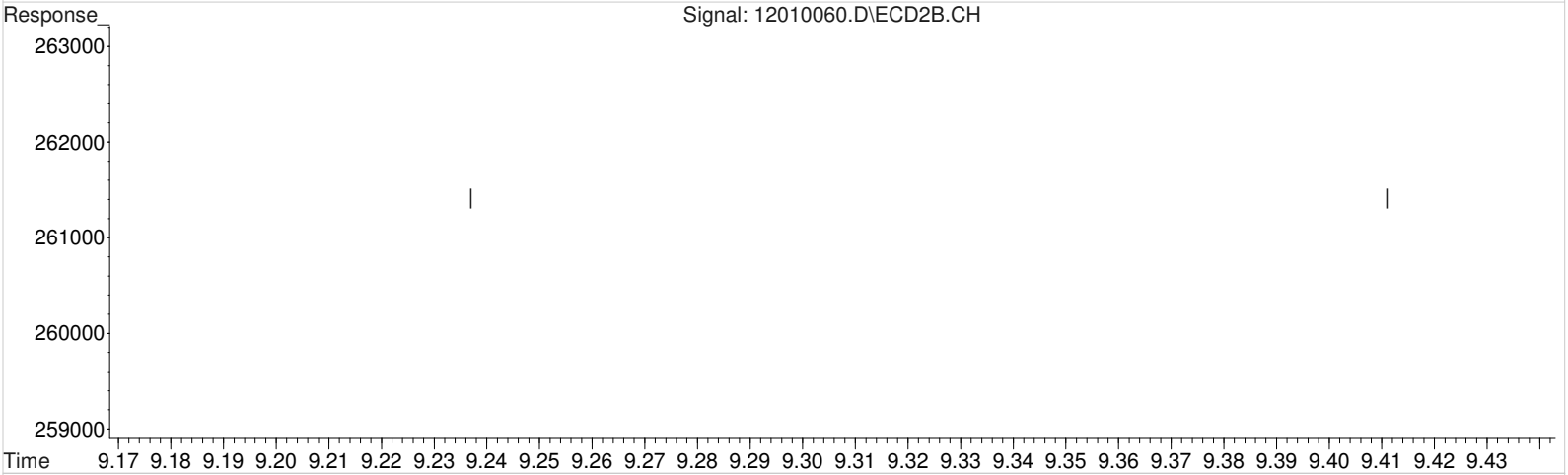
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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





QEdit

(7) 2,4-D (m)

9.334min 0.098 ppb m

response 2085

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.041min 2.785 ppb

response 142571

(+) = Expected Retention Time

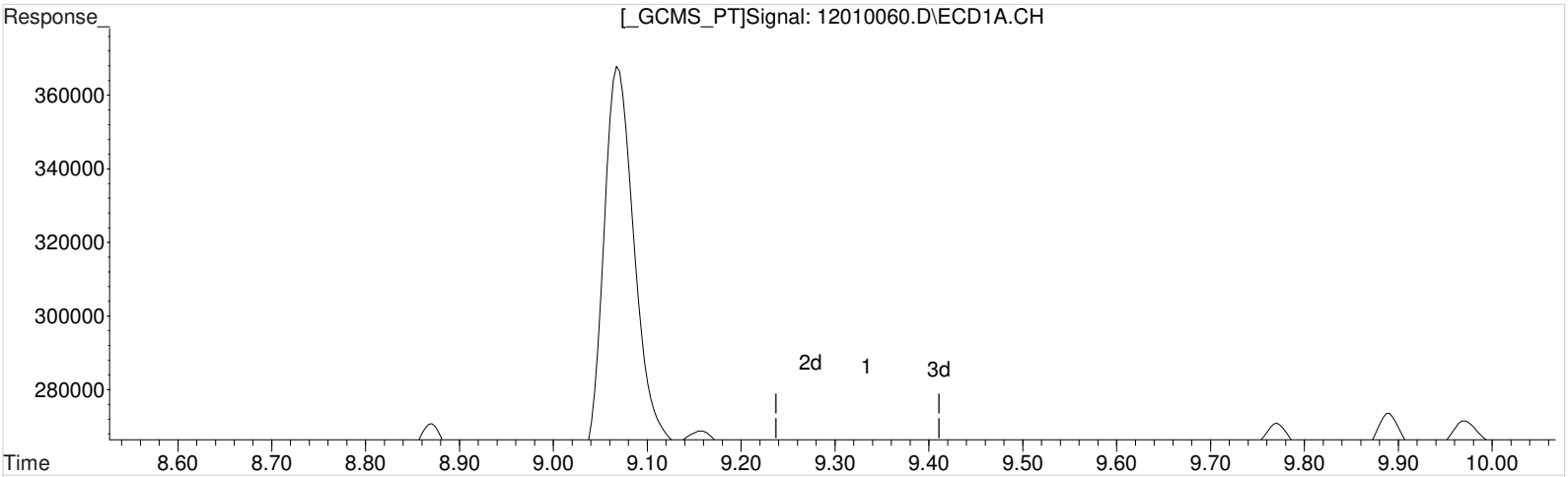
Quantitation Report (Qedit)

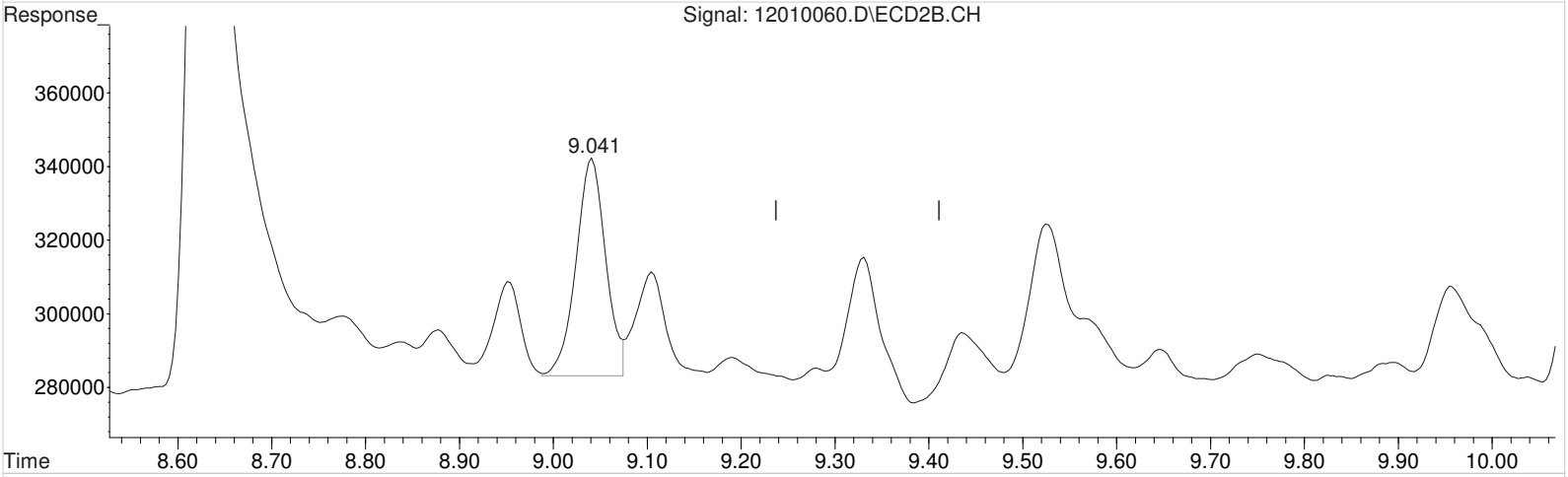
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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





QEdit

(7) 2,4-D (m)

9.334min 0.098 ppb m

response 2085

(7) 2,4-D #2 (m)

9.041min 2.558 ppb m

response 130965

Manual Integration:

After

Baseline/Shoulder

12/02/20

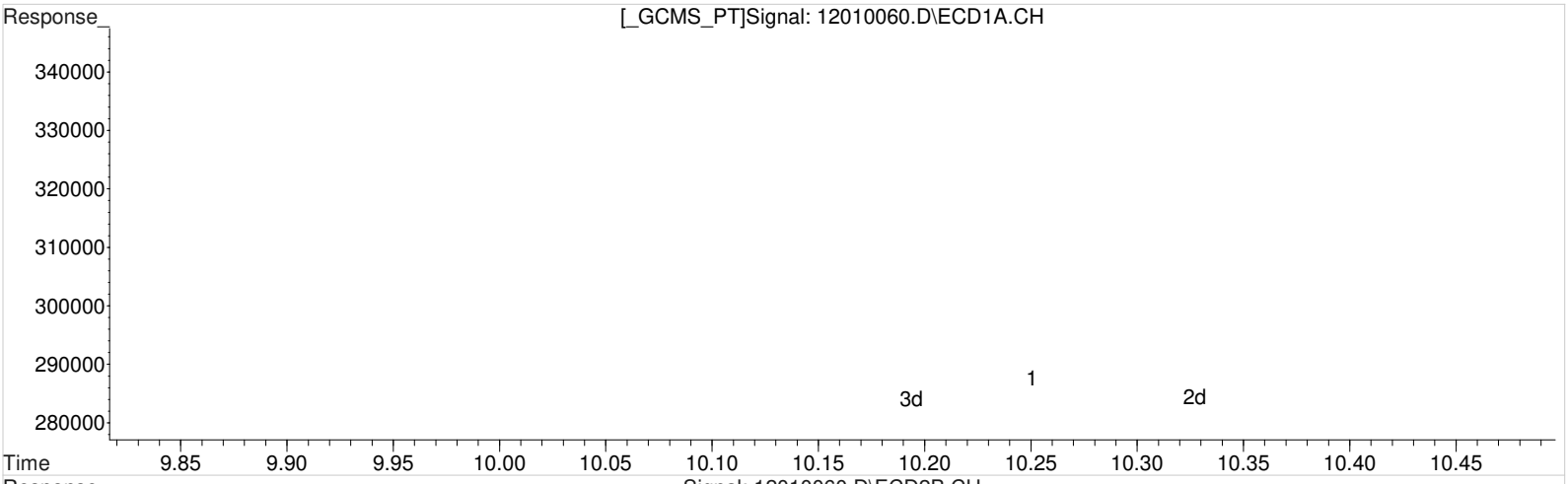
(+) = Expected Retention Time

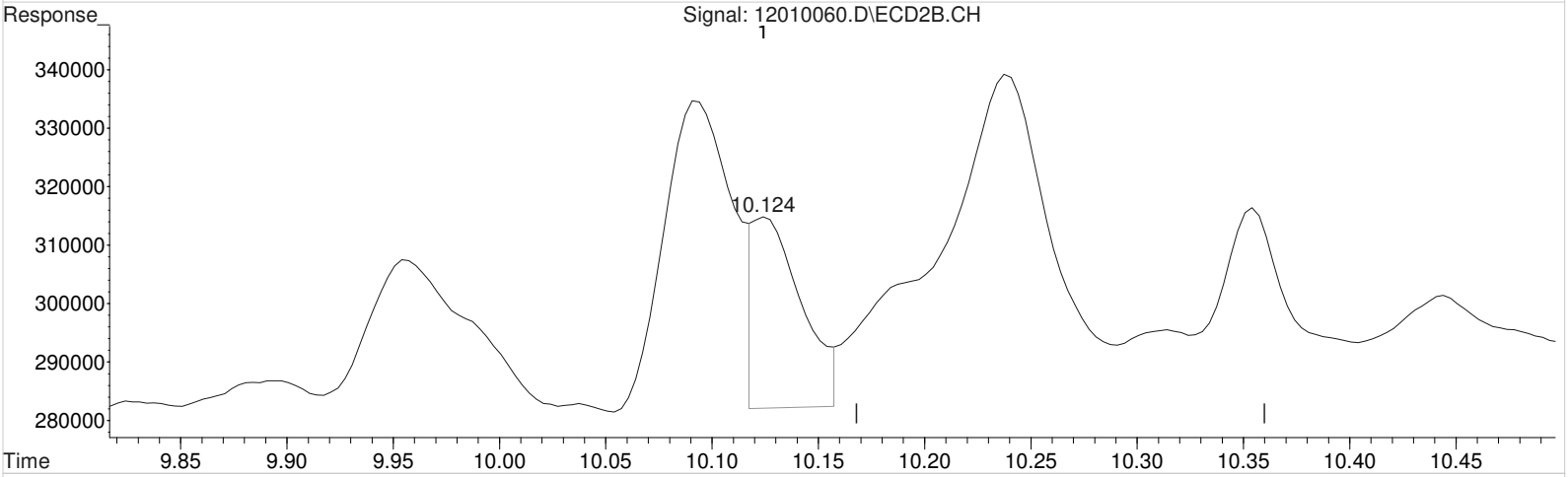
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 0.098 ppb

response 9218

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.124min 0.253 ppb

response 51276

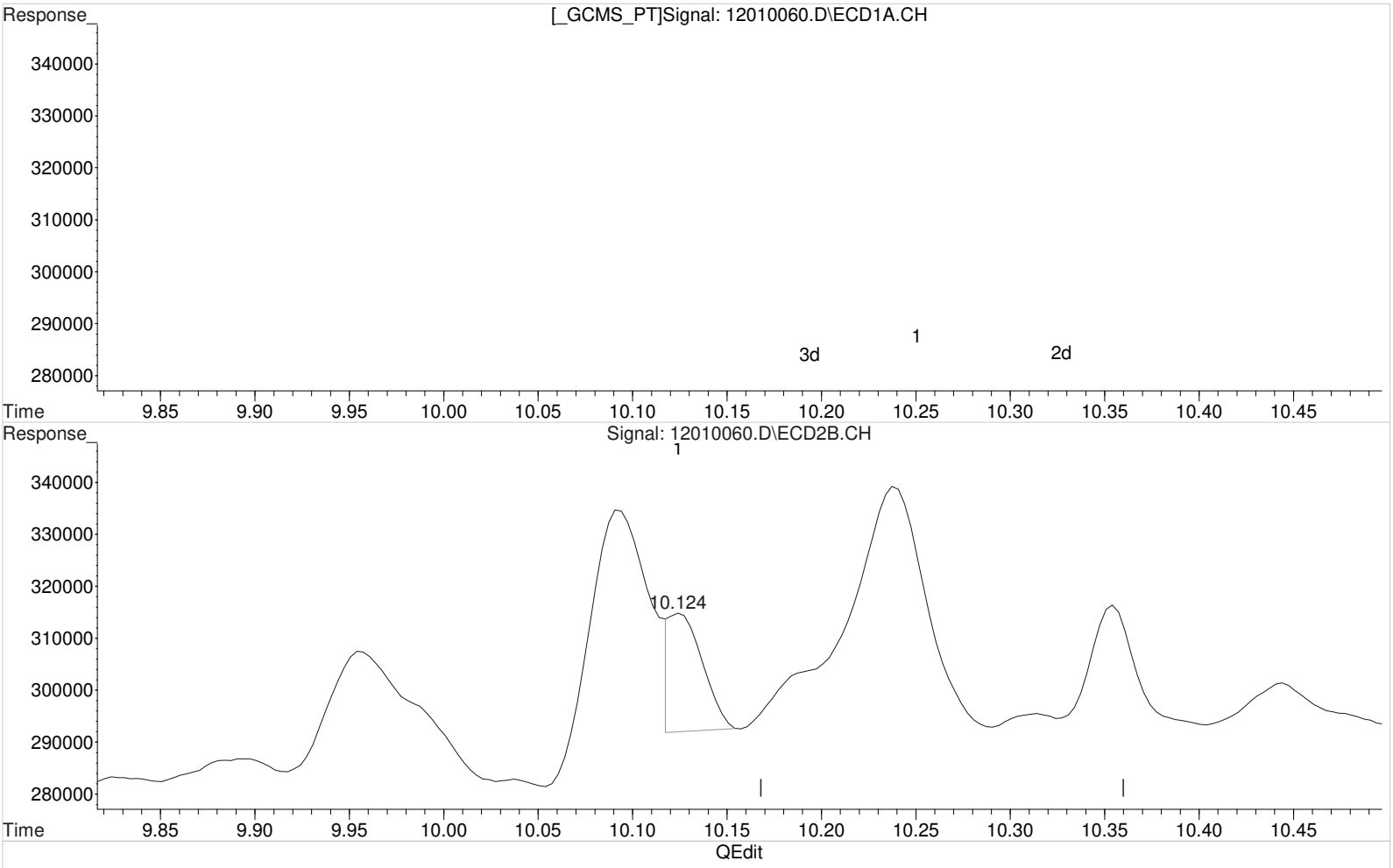
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010060.D Vial: 65
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:51 pm Operator: UA
Sample : K2010456-016 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:03 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



(8) 2,4,5-TP (Silvex) (m)

10.250min 0.098 ppb

response 9218

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.124min 0.134 ppb m

response 27192

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010061.D\
Lab ID: K2010456-017
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 16:14:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010061.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 16:14:00	**Vial:**	40
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-017	**Raw Units:**	ppb

Bottle ID:	K2010456-017.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.82	1021713	3916260	56.149	92.588	56	93	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	5061	76504	0.054	0.377 CCV	0.13U	0.92U	3.6 U	Y
2,4-D	9.33 +0.02	9.03 -0.03	3674	136448	0.173	2.665	0.42U	6.5U	12 U	Y

Prep Amount:	30.233 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	68.00

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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010061.D Vial: 66
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:14 pm Operator: UA
Sample : K2010456-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:34:25 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
	System Monitoring Compounds						
2) s	2,4-Dichl...	7.983	7.817	1021713	3916260	56.149m	92.588m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.330	9.034	3674	136448	0.173	2.665 #
8) m	2,4,5-TP ...	10.247	10.090	5061	76504	0.054	0.377 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

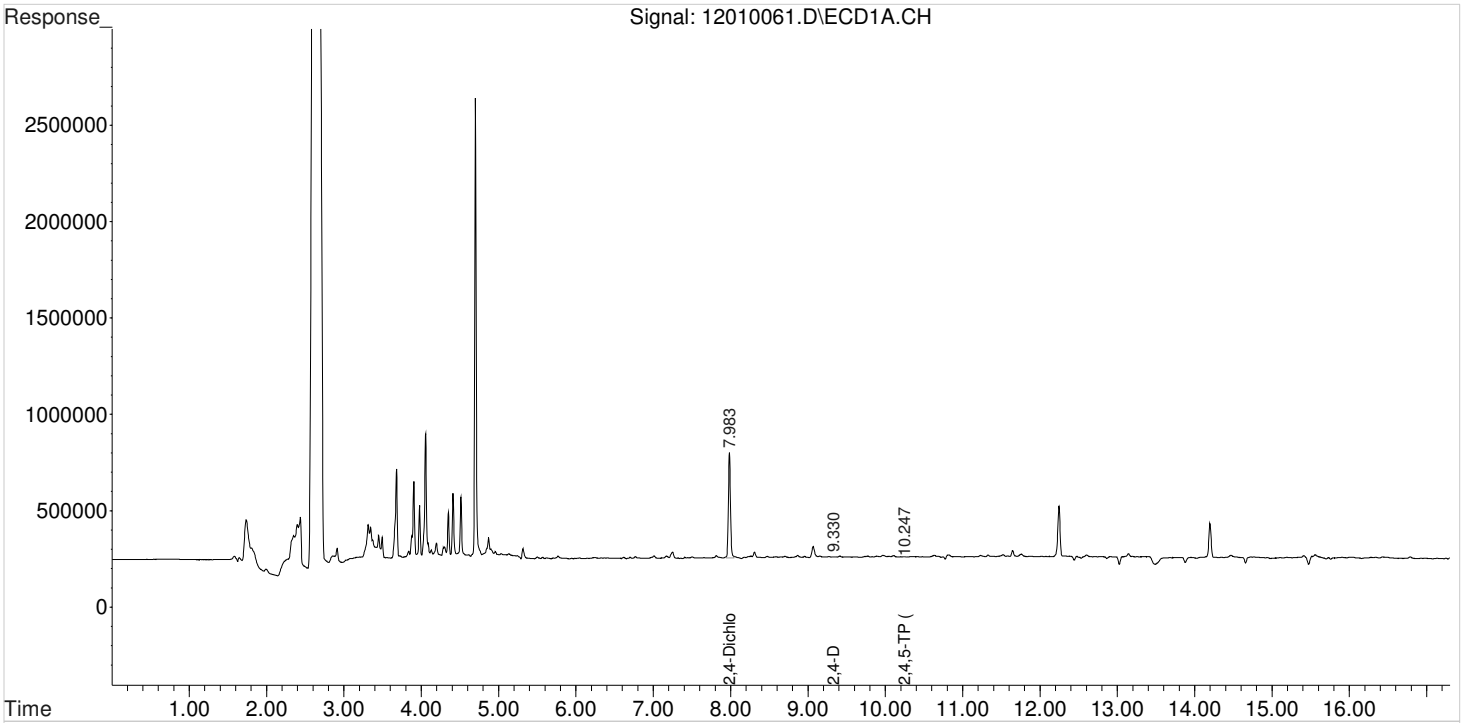
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

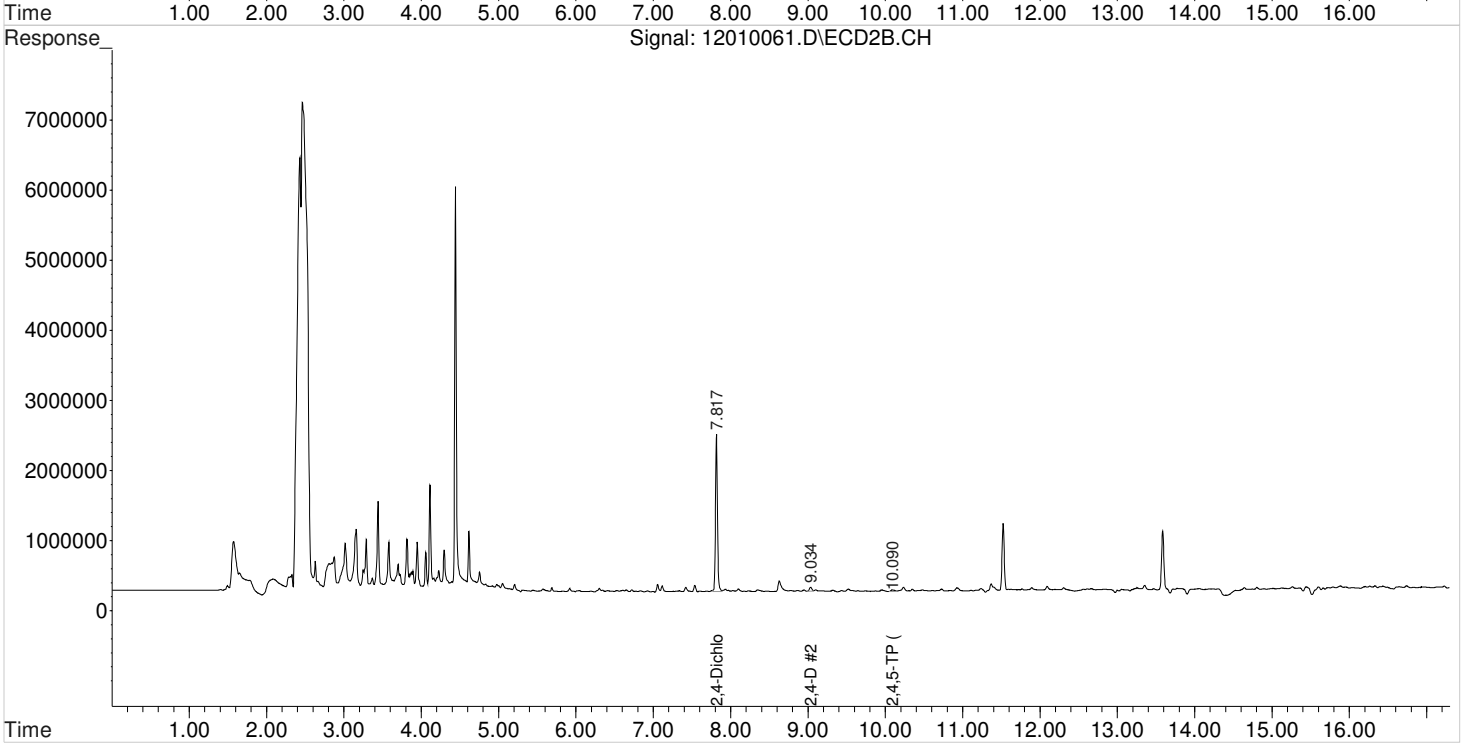
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010061.D Vial: 66
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:14 pm Operator: UA
Sample : K2010456-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:34:25 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



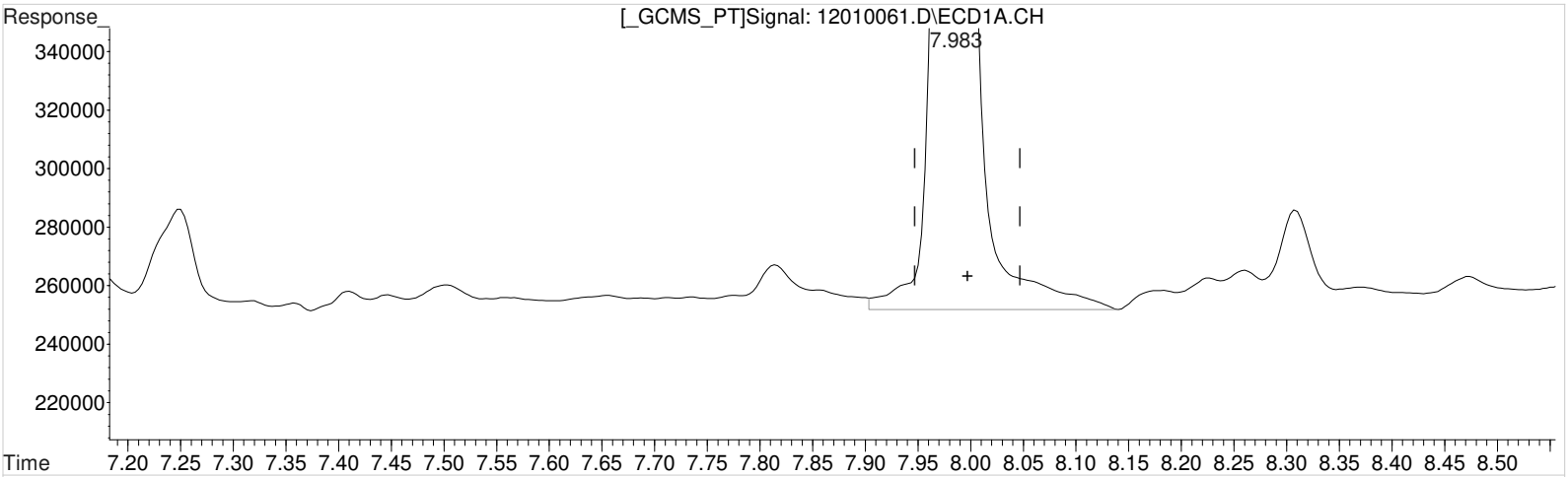


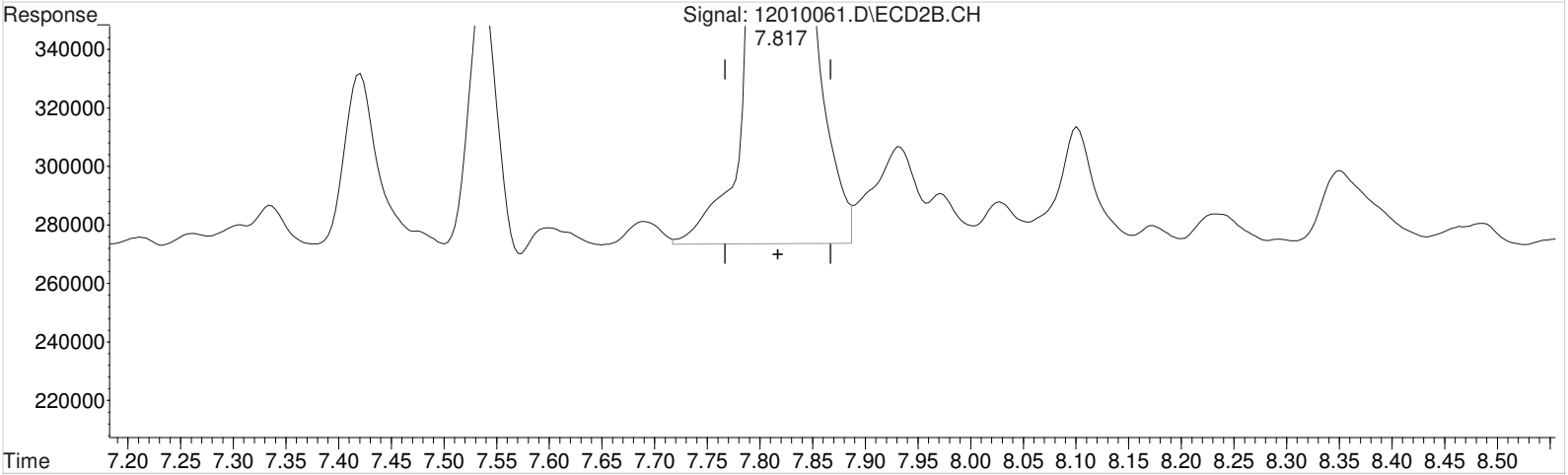
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010061.D Vial: 66
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:14 pm Operator: UA
Sample : K2010456-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:06 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 17:31:59 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





QEdit

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

7.983min 60.078 ppb

response 1093213

Manual Integration:

Before

12/02/20

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

7.817min 93.702 ppb

response 3963390

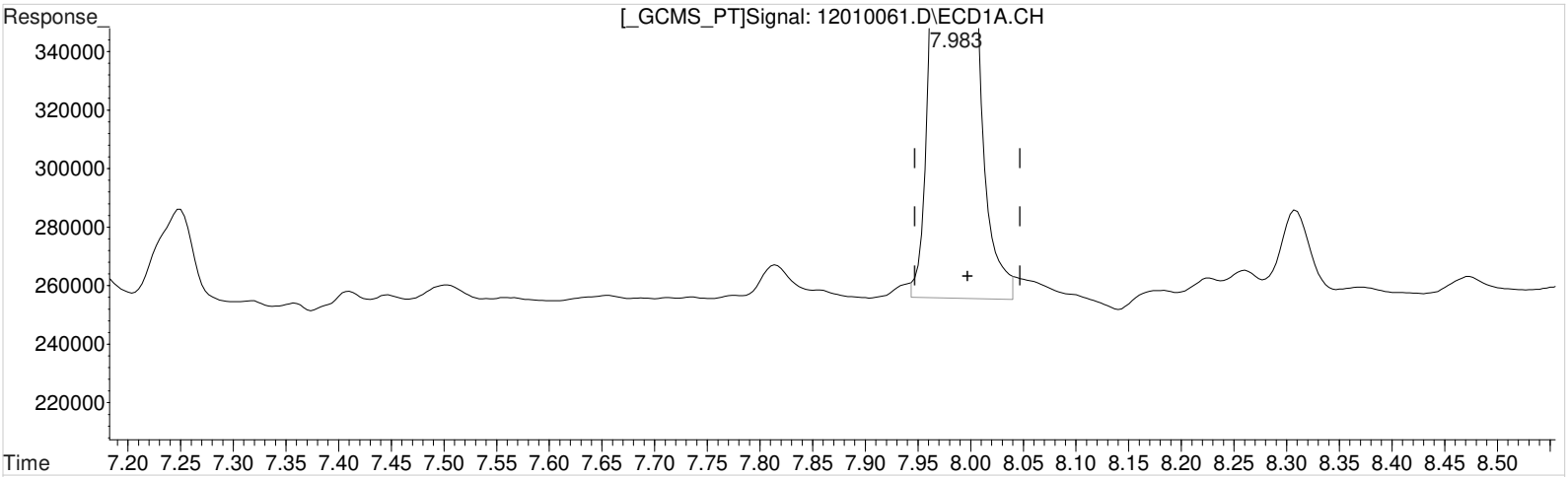
(+) = Expected Retention Time

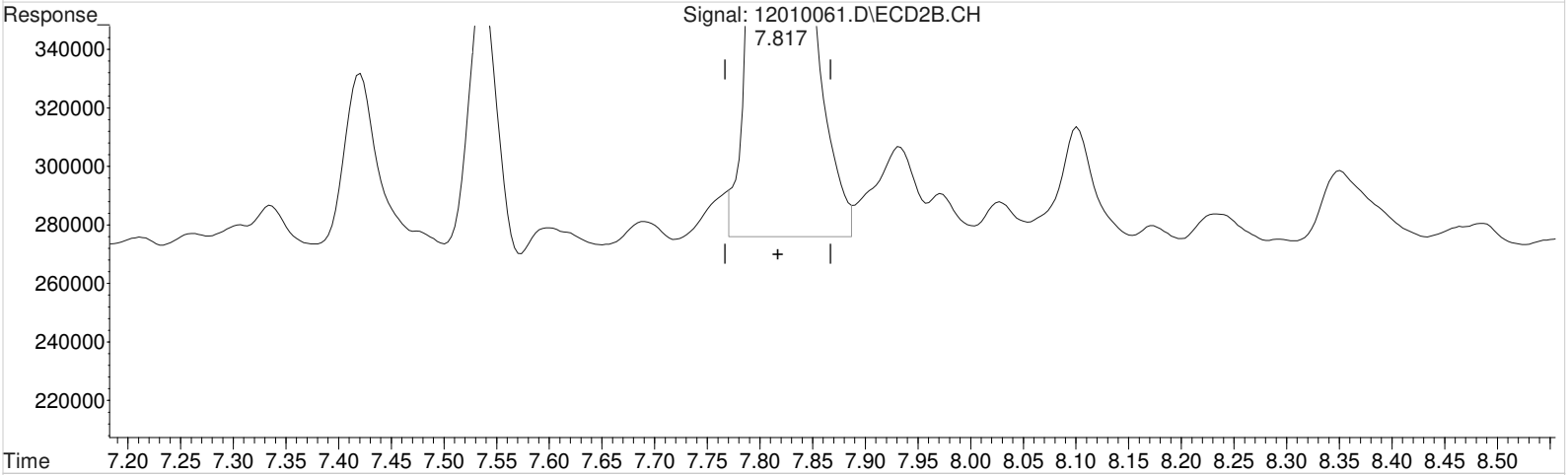
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010061.D Vial: 66
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:14 pm Operator: UA
Sample : K2010456-017 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:06 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 17:31:59 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





QEdit

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

7.983min 56.149 ppb m

response 1021713

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.817min 92.588 ppb m

response 3916260

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010062.D\
Lab ID: K2010456-018
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 16:37:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010062.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 16:37:00	**Vial:**	41
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-018	**Raw Units:**	ppb

Bottle ID:	K2010456-018.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.97 -0.01	7.81 -0.01	1075514	4090502	59.105	96.707	59	97	59	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	10.24 -0.01	10.11 -0.02	4985	20337	0.053	0.100 CCV	0.12U	0.23U	3.4 U	Y
2,4-D	9.32 +0.01	9.02 -0.04	10355	99341	0.488	1.940	1.1U	4.6U	11 U	Y

Prep Amount:	30.104 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	70.80

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:37 pm Operator: UA
Sample : K2010456-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:38:56 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...	7.975	7.808	1075514	4090502	59.105m	96.707m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.325	9.025	10355	99341	0.488	1.940 #
8)	m	2,4,5-TP ...	10.241	10.108	4985	20337	0.053	0.100m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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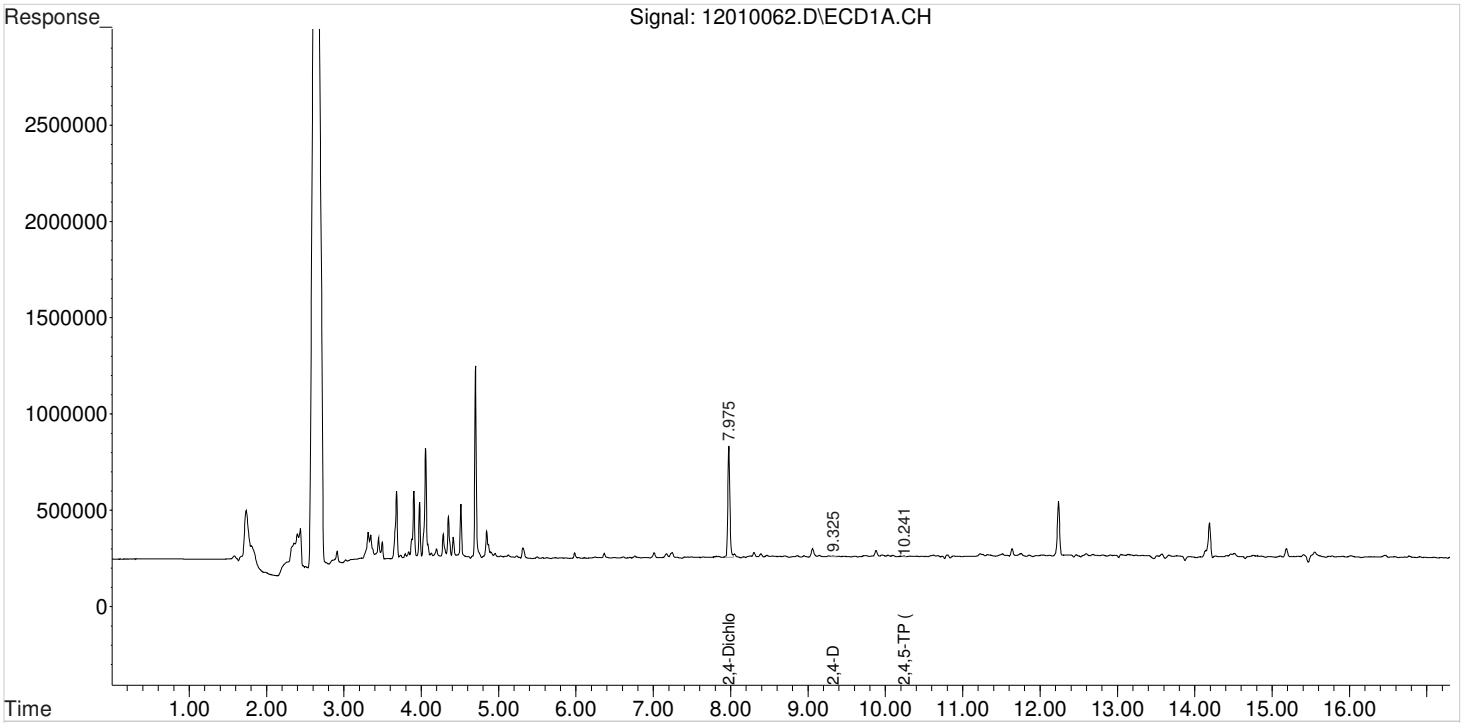
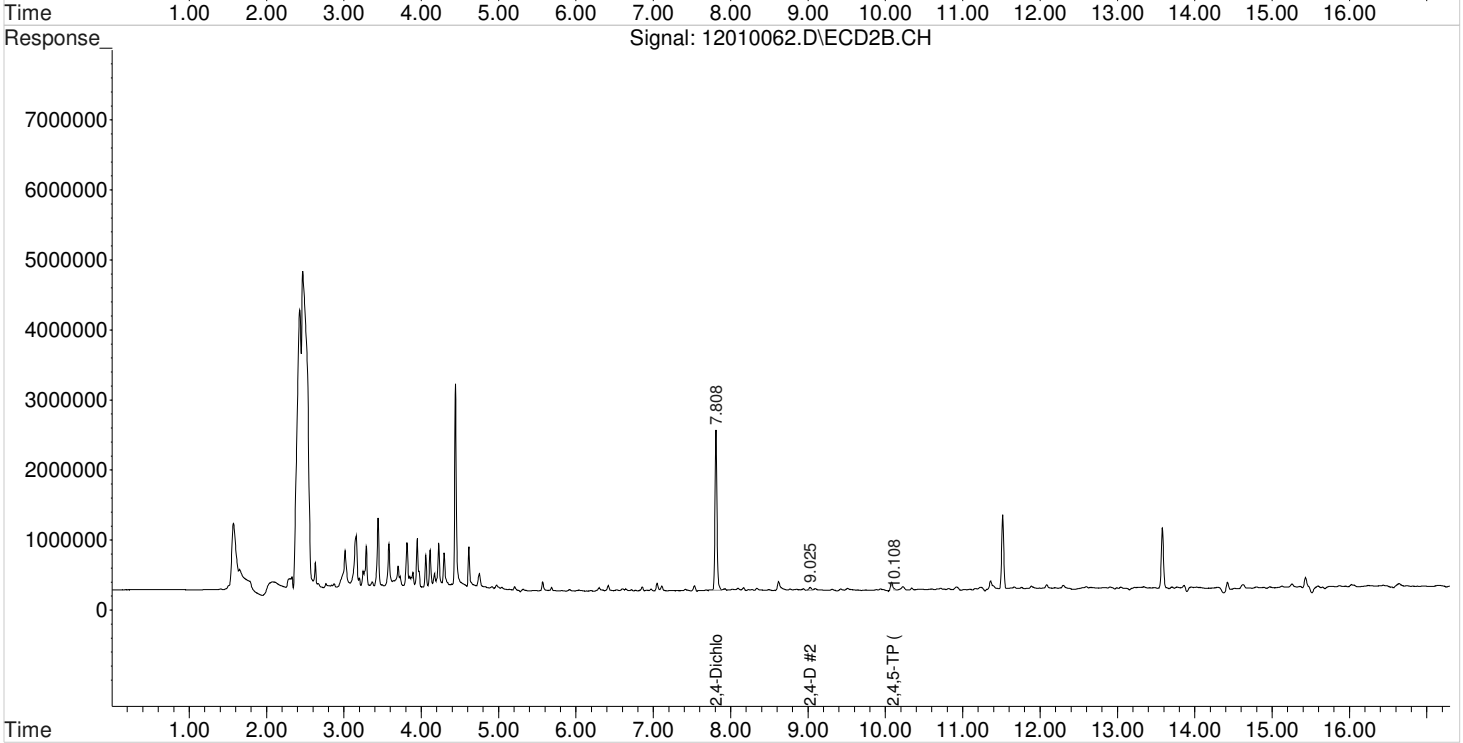
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:37 pm Operator: UA
Sample : K2010456-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
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Response via : Initial Calibration
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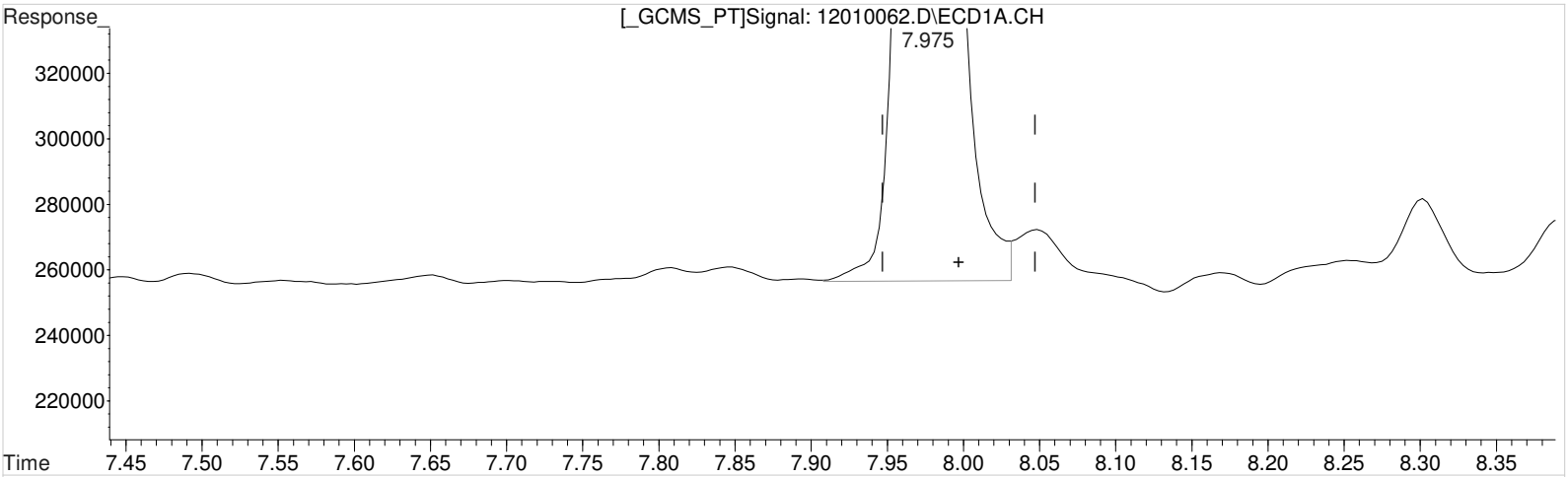
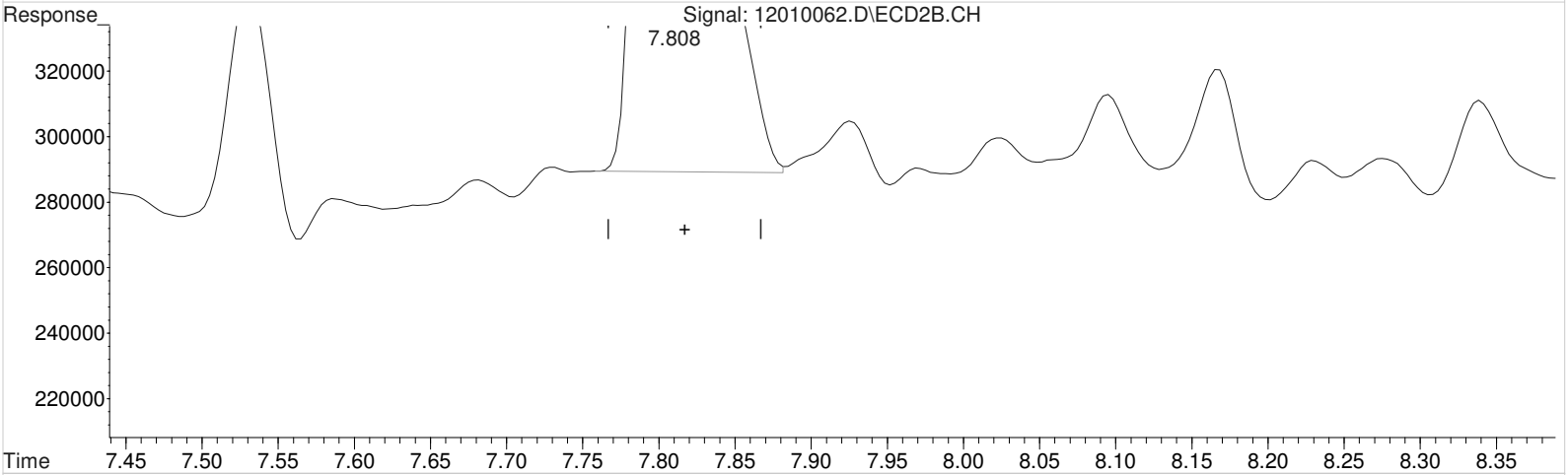
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.975min 59.337 ppb

response 1079733

Manual Integration:

Before

12/02/20

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

7.808min 95.665 ppb

response 4046408

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:37 pm Operator: UA
Sample : K2010456-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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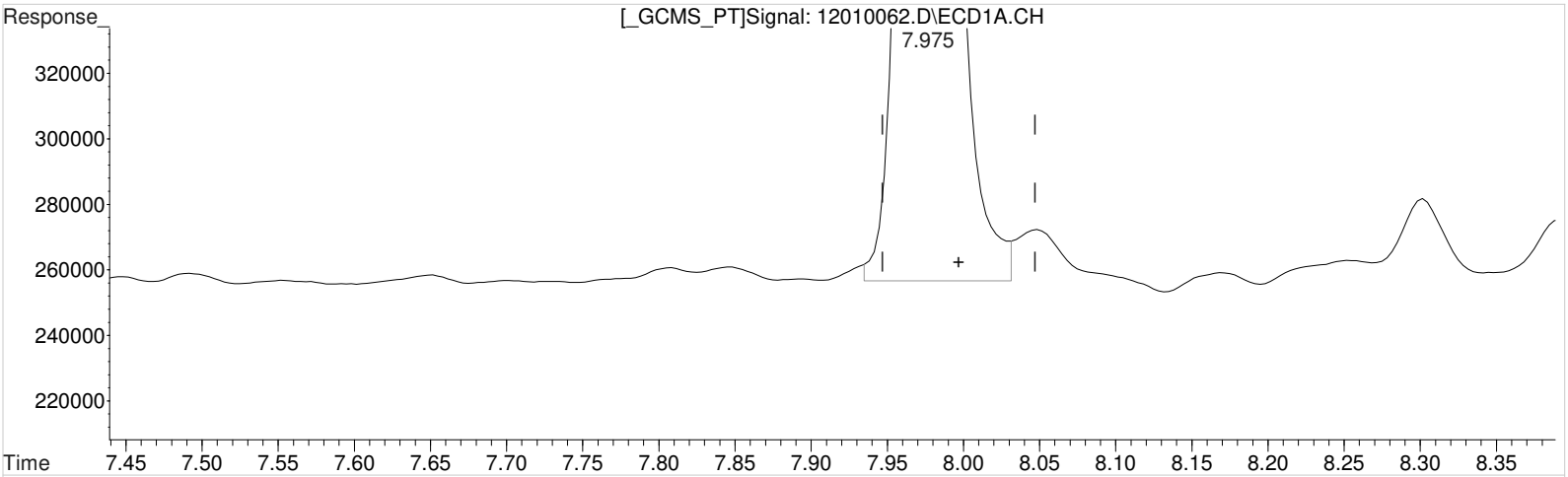
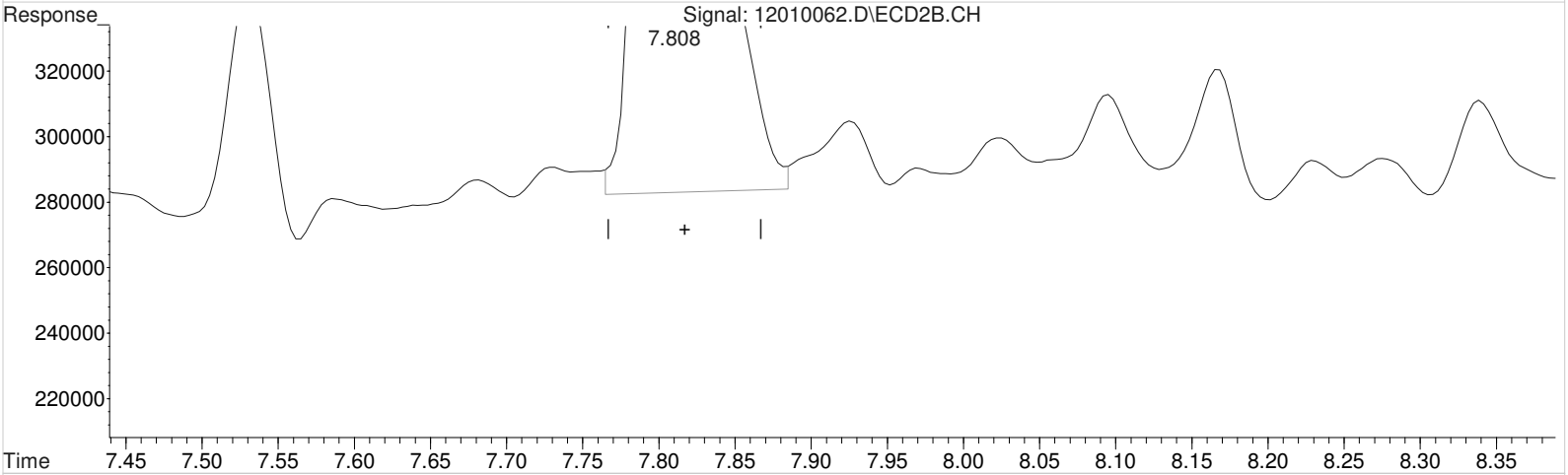
Quant Time: Dec 02 18:19:09 2020
Quant Results File: 102120_8151.RES

Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 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





QEdit

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

7.975min 59.105 ppb m

response 1075514

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.808min 96.707 ppb m

response 4090502

(+) = Expected Retention Time

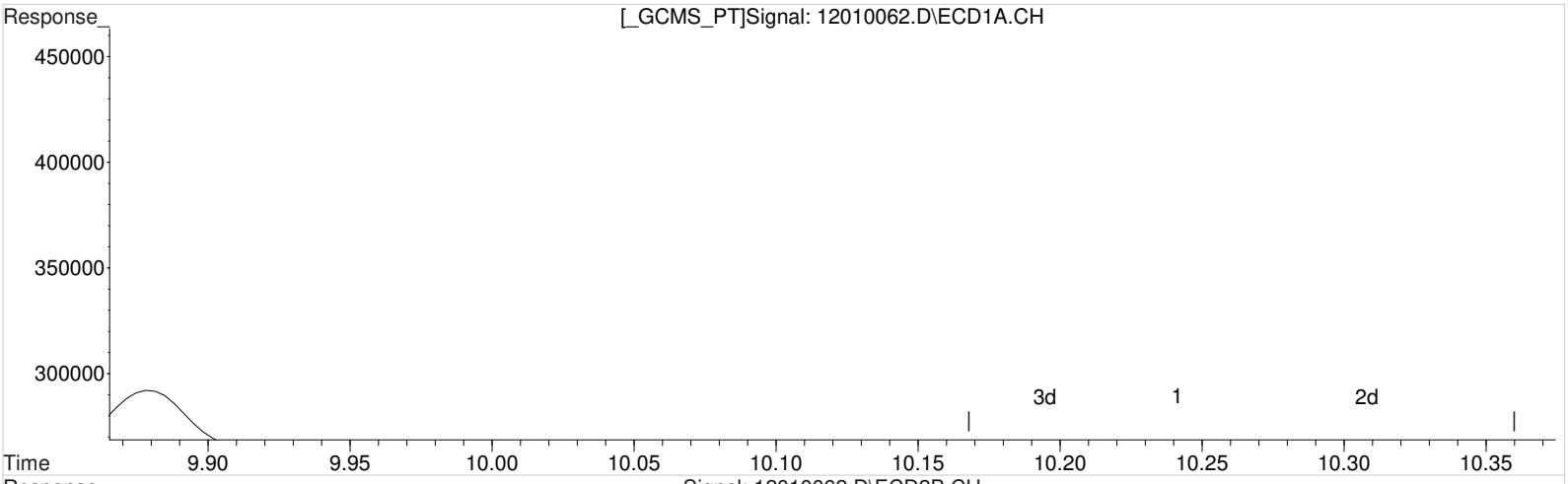
Quantitation Report (Qedit)

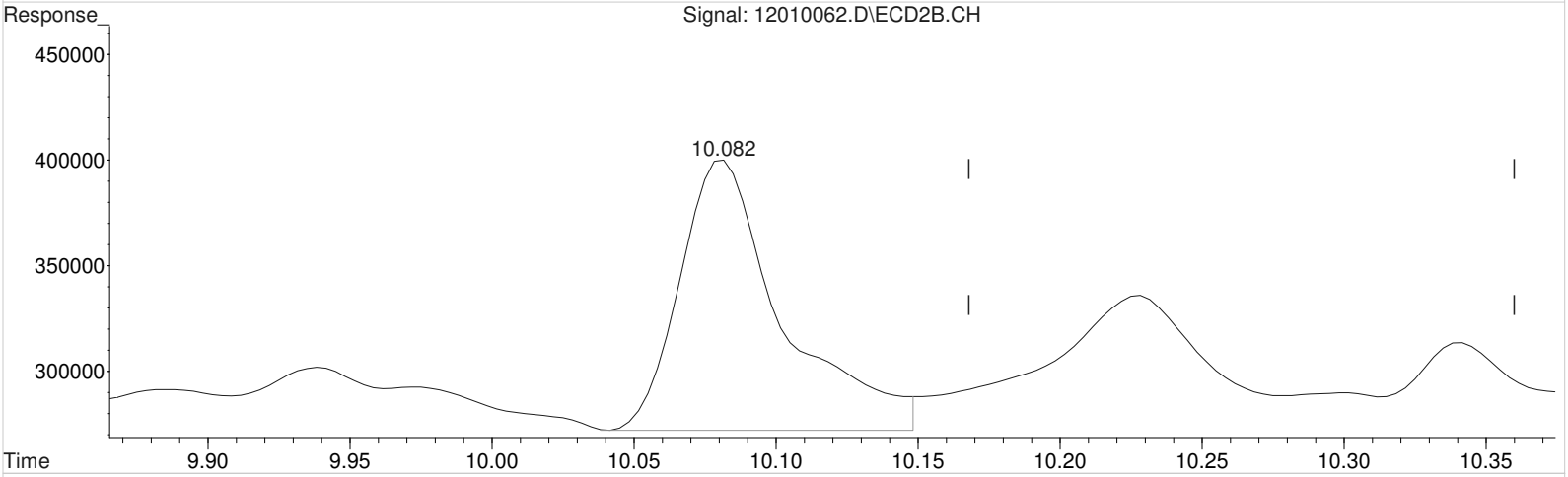
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:37 pm Operator: UA
Sample : K2010456-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:09 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 0.053 ppb

response 4985

(8) 2,4,5-TP (Silvex) #2 (m)

10.082min 1.583 ppb

response 321271

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

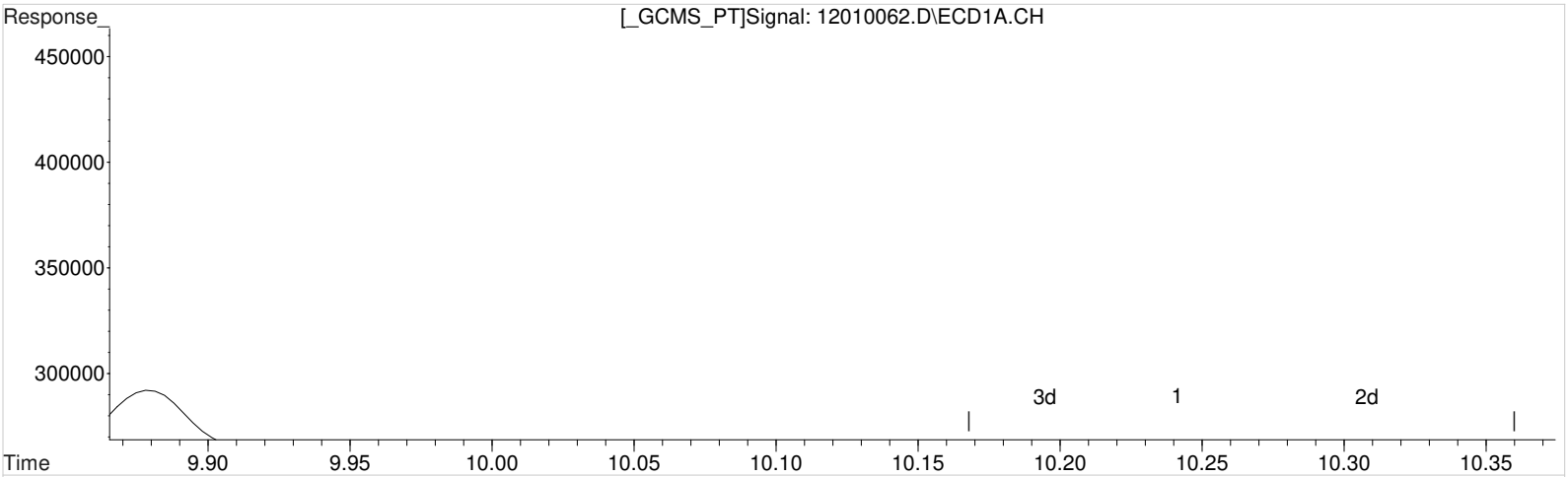
Quantitation Report (Qedit)

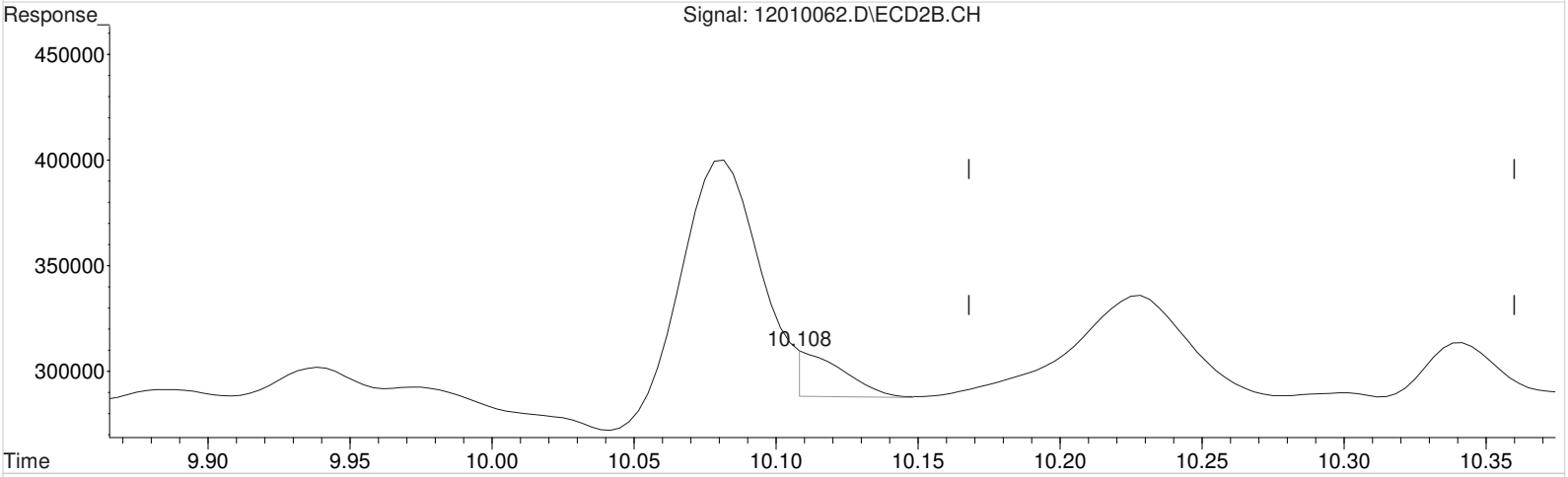
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010062.D Vial: 67
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 4:37 pm Operator: UA
Sample : K2010456-018 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:09 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 0.053 ppb

response 4985

(8) 2,4,5-TP (Silvex) #2 (m)

10.108min 0.100 ppb m

response 20337

Manual Integration:

After

Baseline/Shoulder

12/02/20

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010032.D\
Lab ID: K2010456-019
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 05:10:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010032.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 05:10:00	**Vial:**	8
Run Type:	N/A	**Dilution:**	5
Lab ID:	K2010456-019	**Raw Units:**	ppb

Bottle ID:	K2010456-019.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	207560	826755	11.407	19.546	57	98	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	10.25 -0.01	10.10 -0.04	6489	157137	0.069	0.774	0.86U	9.7U	18 U	Y
2,4-D	9.29 -0.03	9.03 -0.04	17092	24625	0.805	0.481	10U	6.0U	58 U	Y

Prep Amount:	30.096 g	**Dilution:**	5
Prep Final Amount:	50.00 mL	**Basis Factor:**	66.60

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: 12/3/20 17:17
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:07:58 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...	7.992	7.825	207560	826755	11.407m	19.546m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.285	9.032	17092	24625	0.805	0.481 #
8)	m	2,4,5-TP ...	10.248	10.095	6489	157137	0.069	0.774m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
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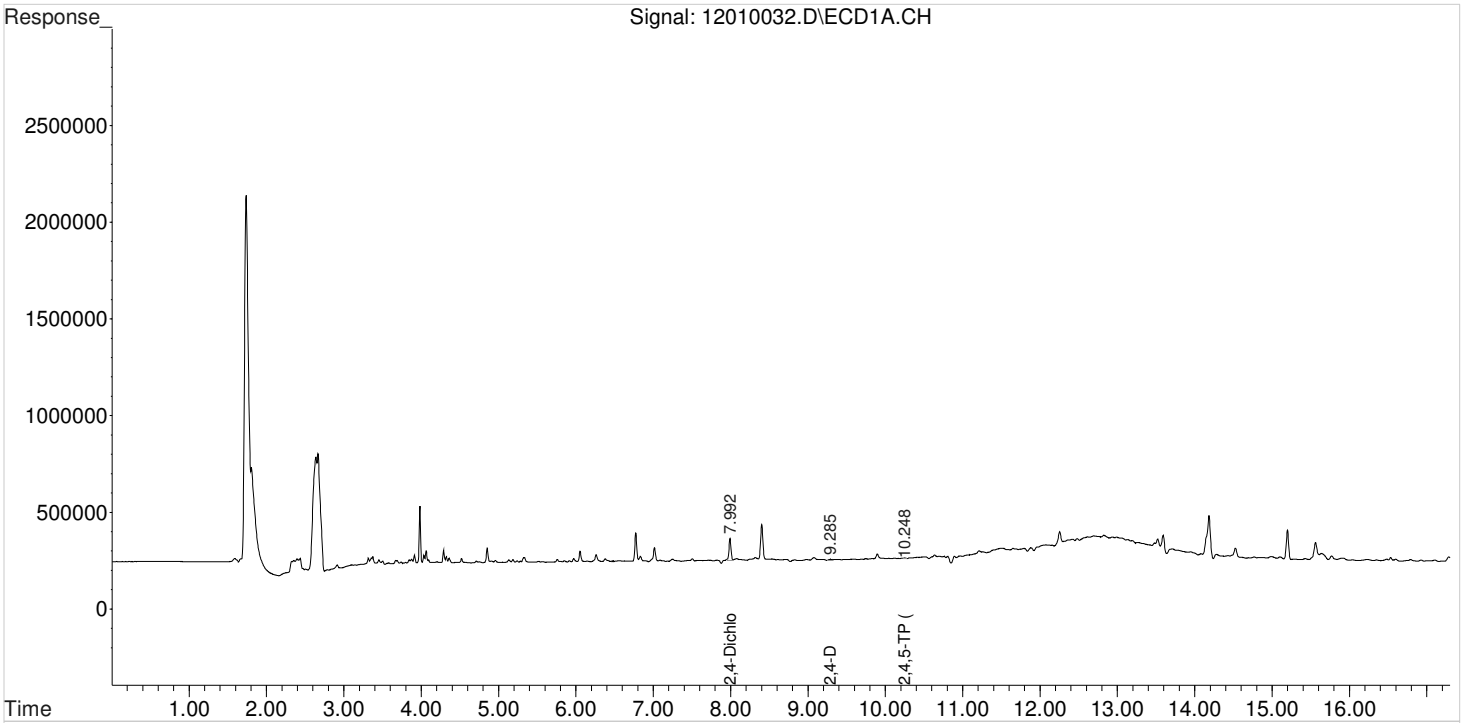
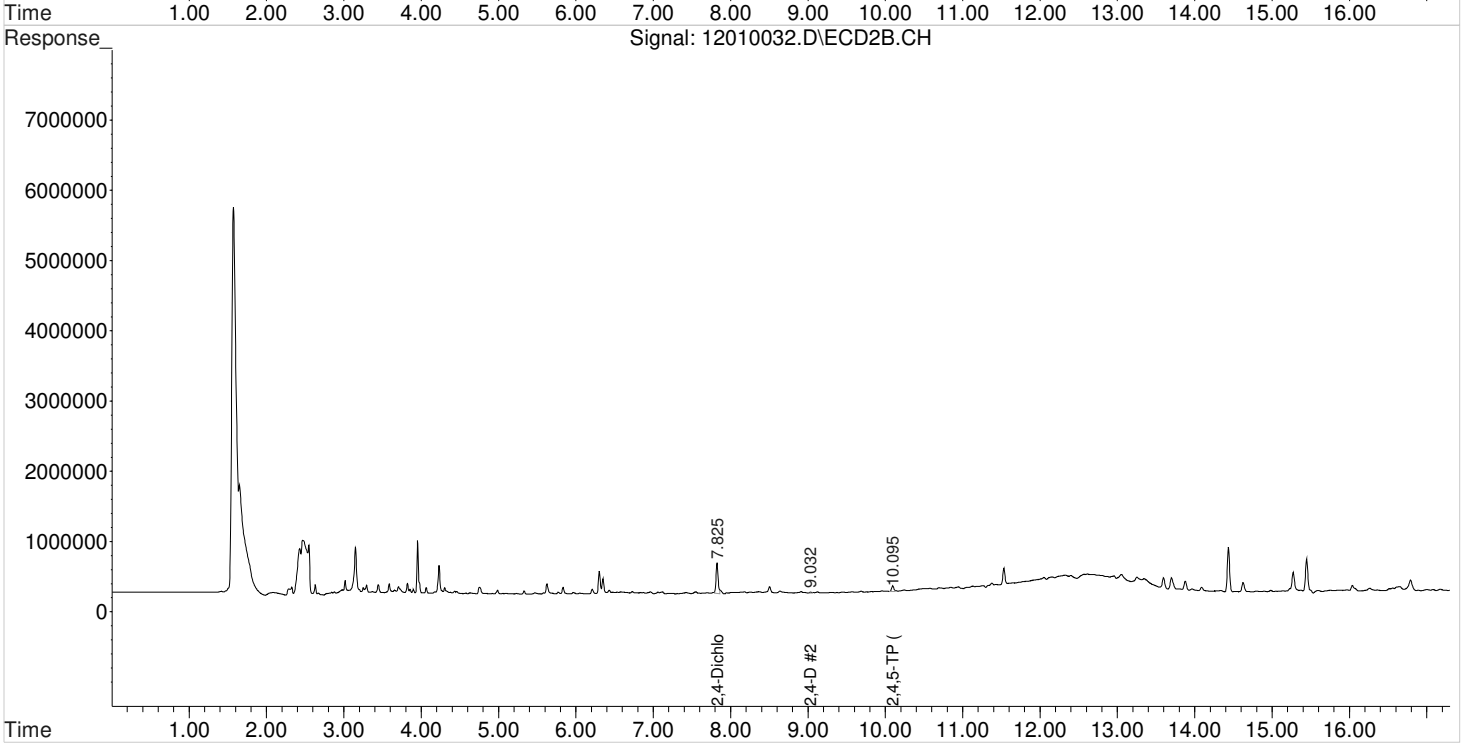
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





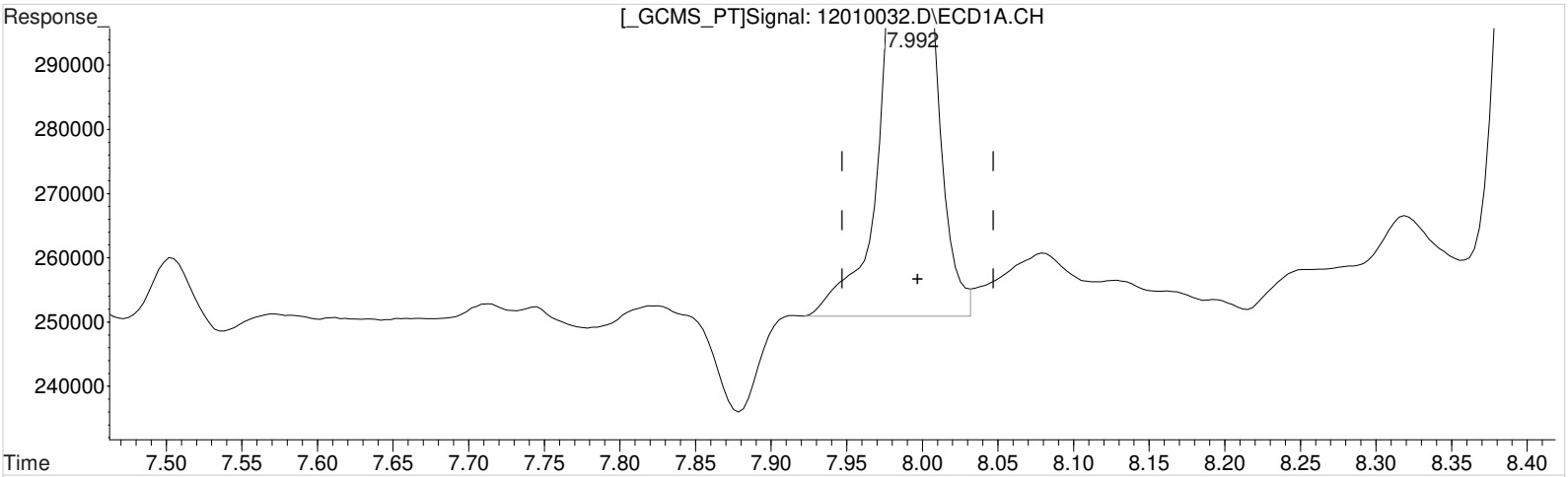
Quantitation Report (Qedit)

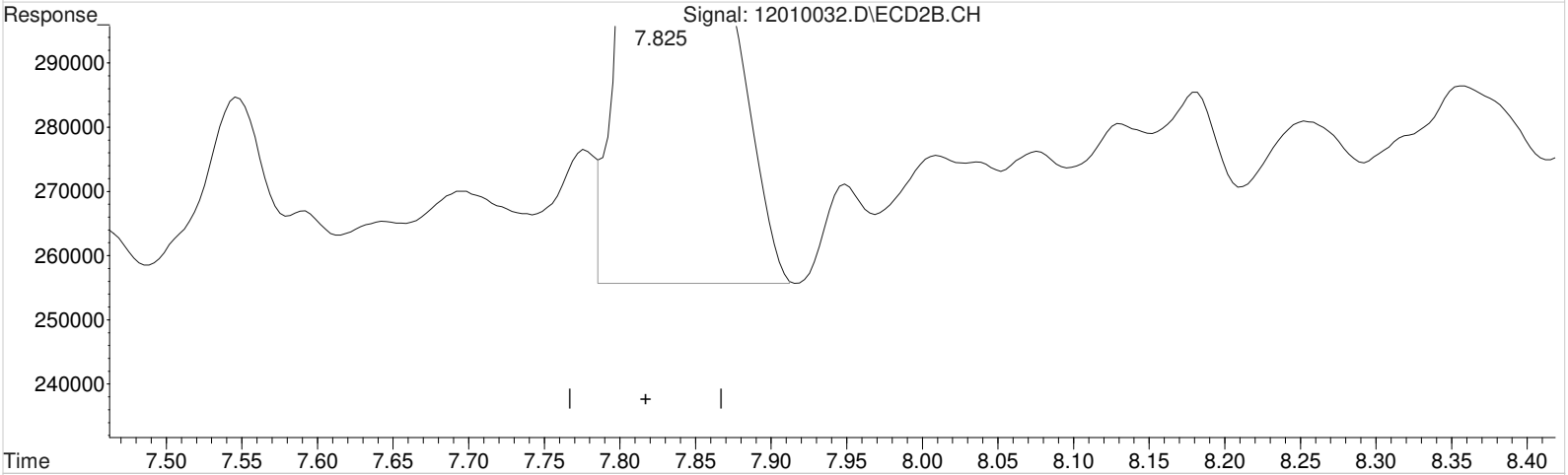
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:58 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





QEdit

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

7.992min 11.924 ppb

response 216976

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

7.825min 21.799 ppb

response 922049

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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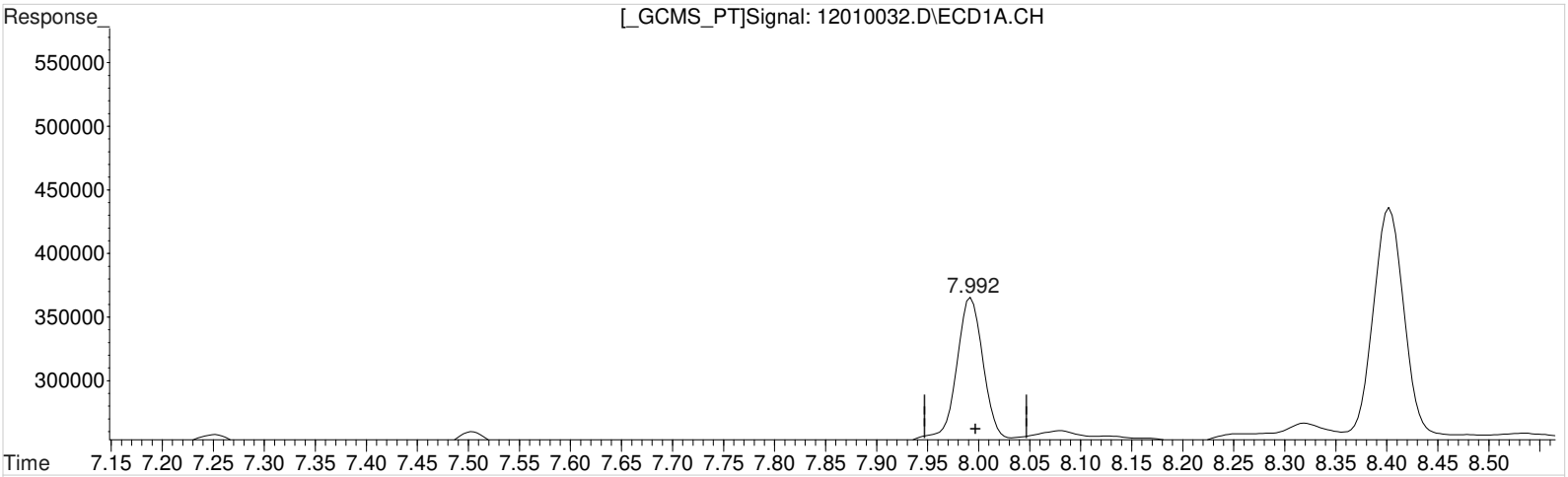
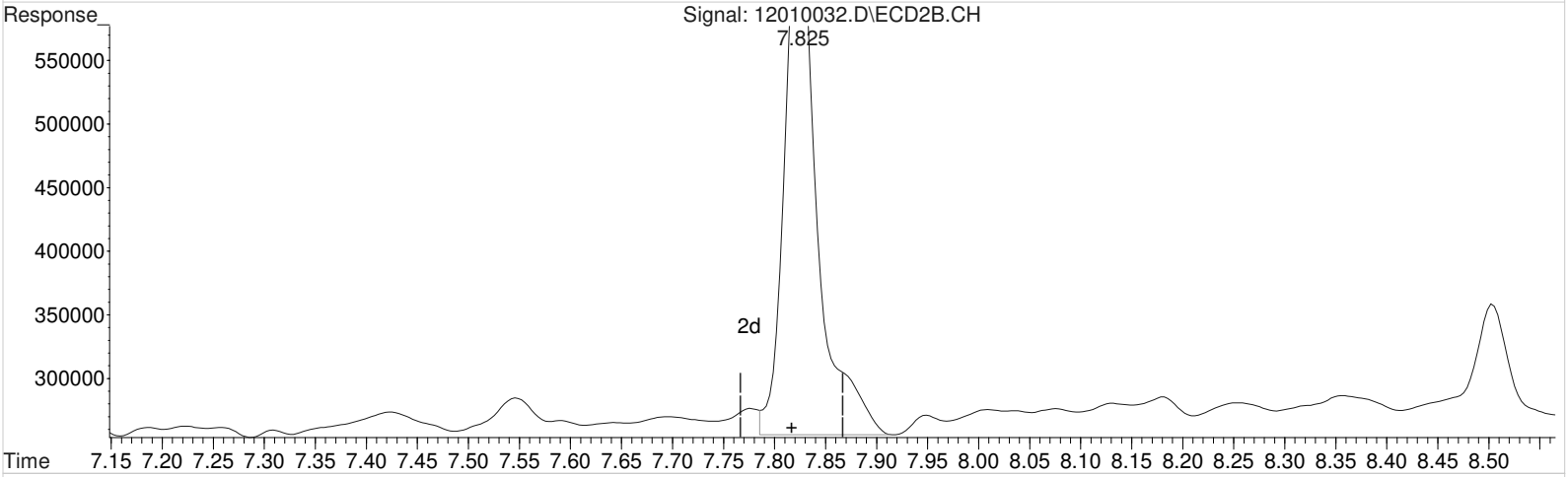
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.992min 11.407 ppb m

response 207560

Manual Integration:

Before

12/02/20

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

7.825min 21.799 ppb

response 922049

(+) = Expected Retention Time

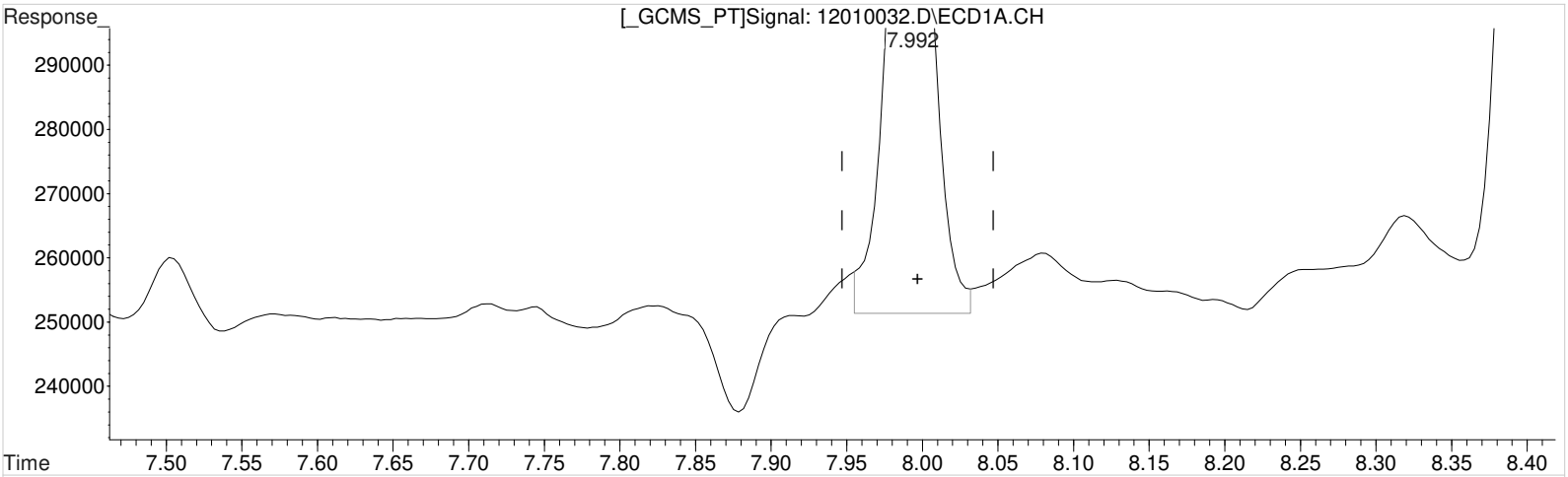
Quantitation Report (Qedit)

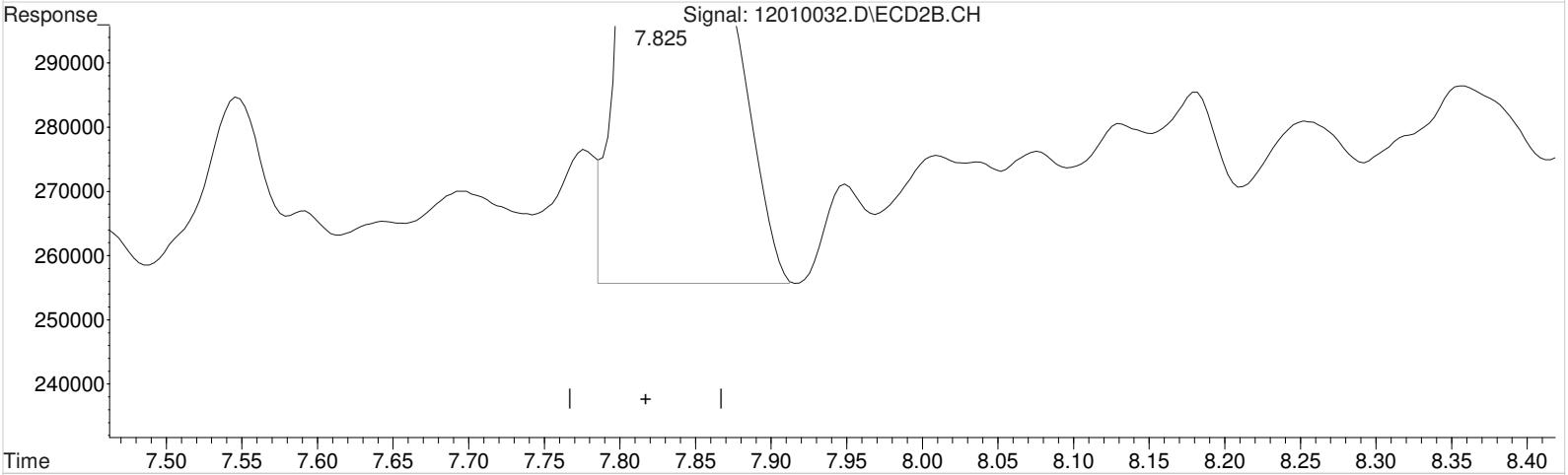
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:58 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





QEdit

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

7.992min 11.407 ppb m

response 207560

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.825min 21.799 ppb

response 922049

(+) = Expected Retention Time

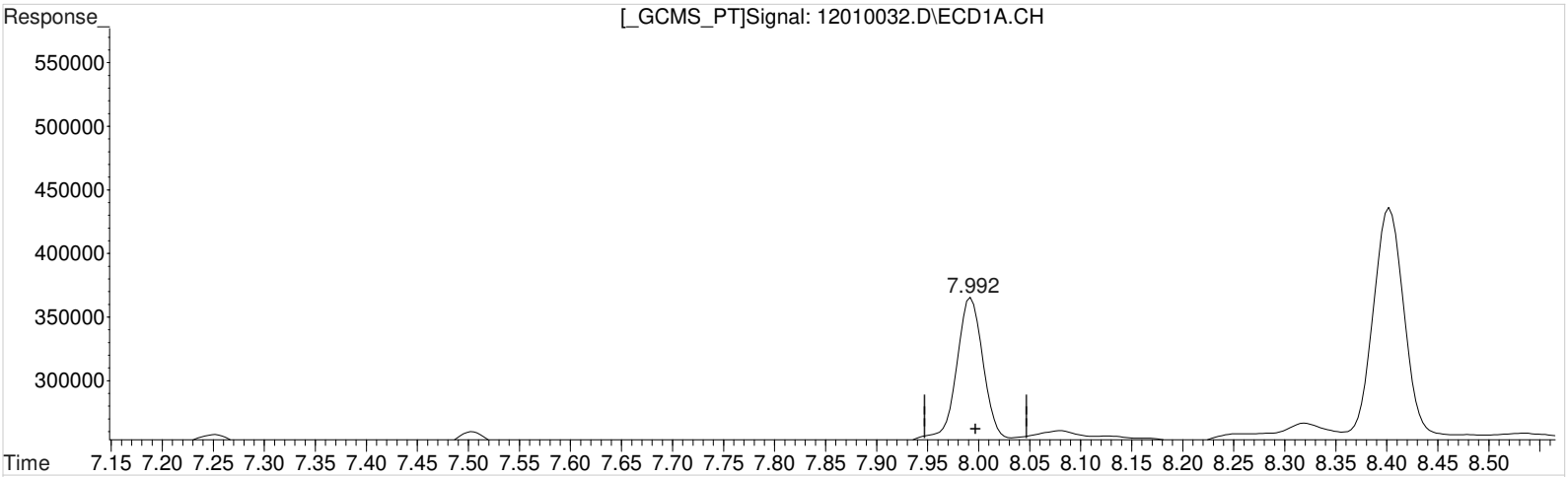
Quantitation Report (Qedit)

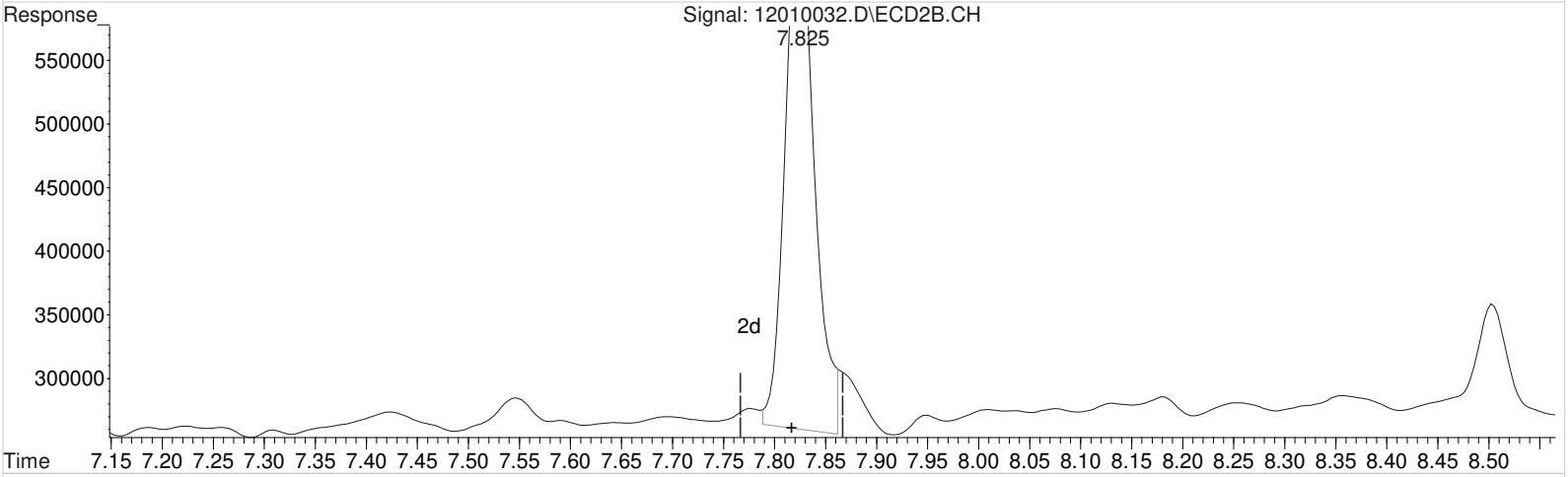
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:58 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





QEdit

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

7.992min 11.407 ppb m

response 207560

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.825min 19.546 ppb m

response 826755

(+) = Expected Retention Time

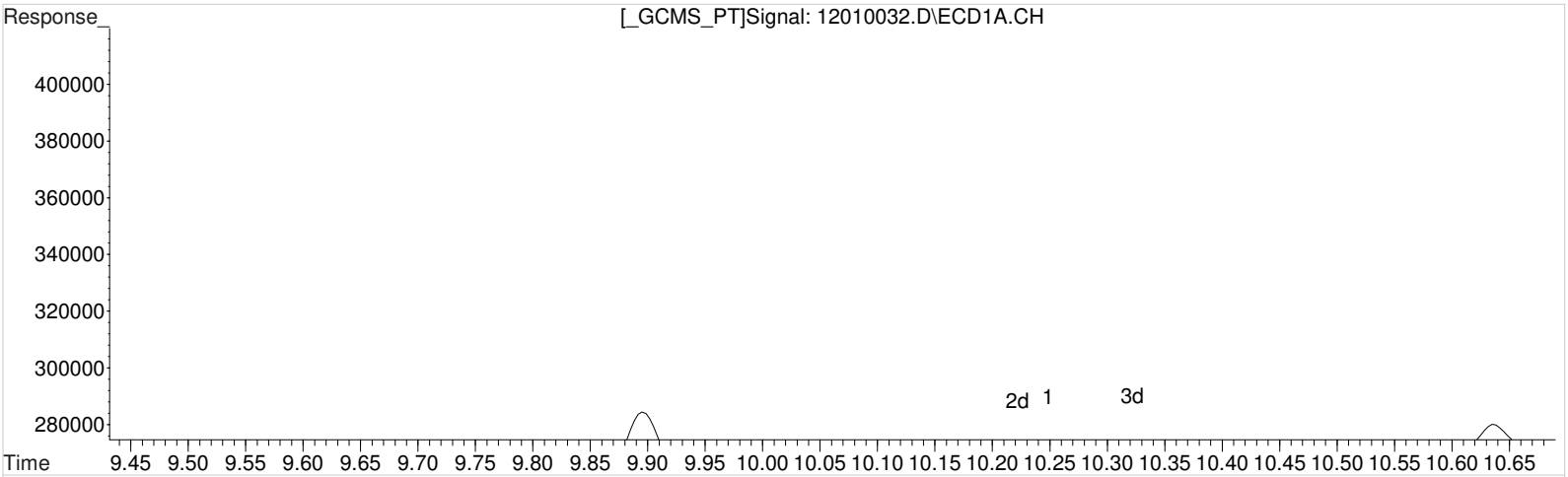
Quantitation Report (Qedit)

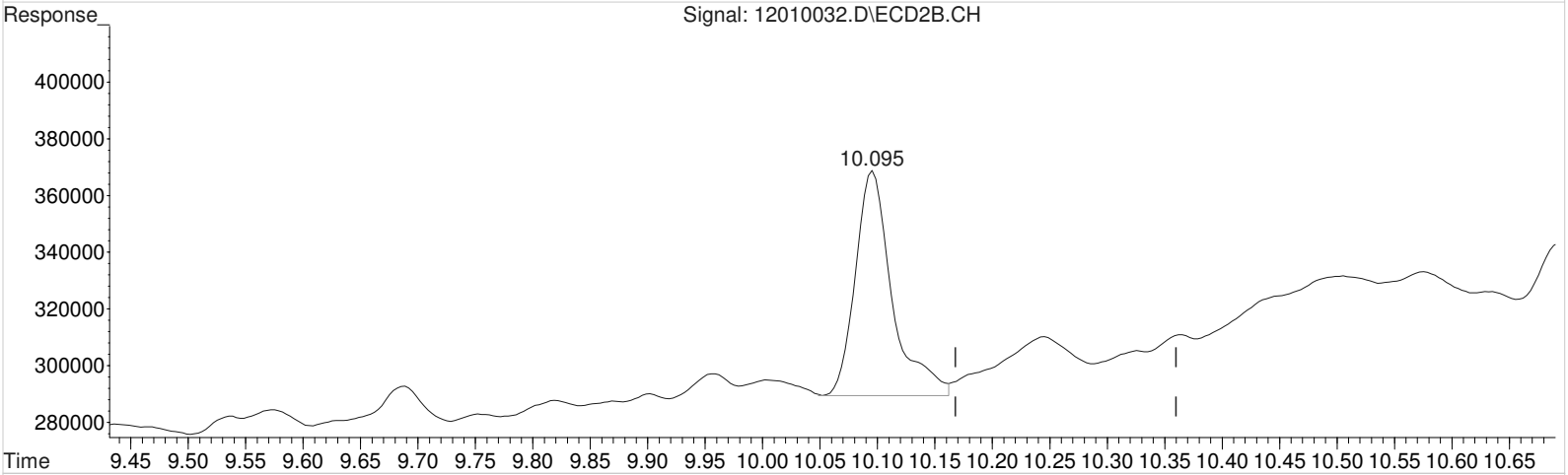
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:58 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.248min 0.069 ppb

response 6489

(8) 2,4,5-TP (Silvex) #2 (m)

10.095min 0.875 ppb

response 177564

Manual Integration:

Before

12/02/20

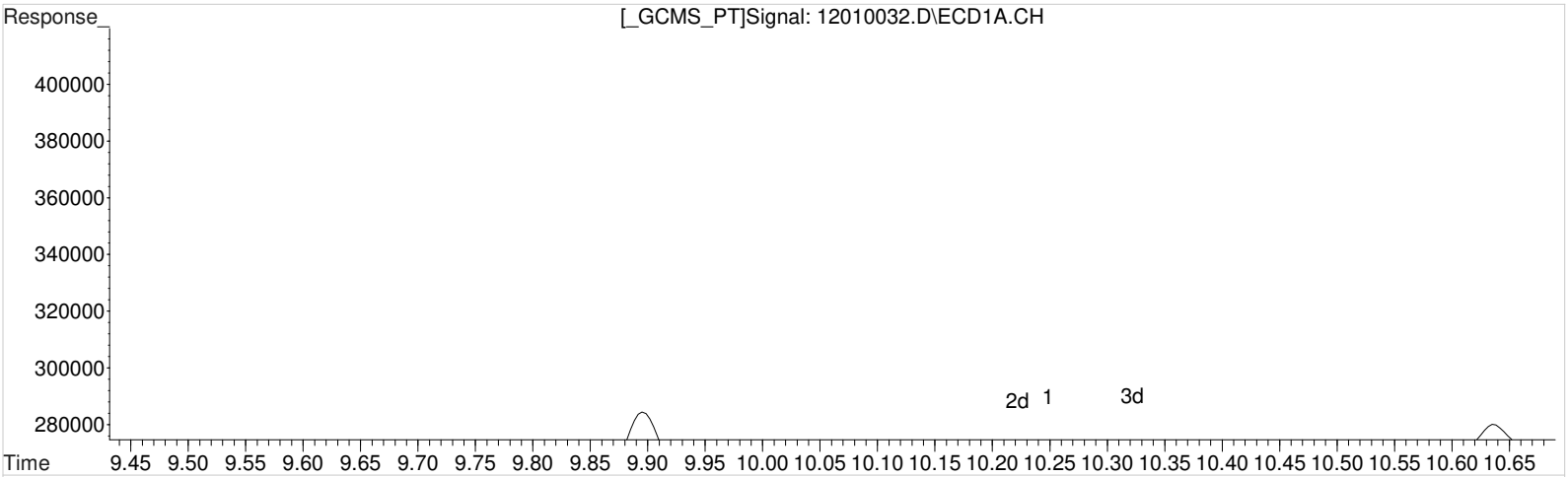
(+) = Expected Retention Time

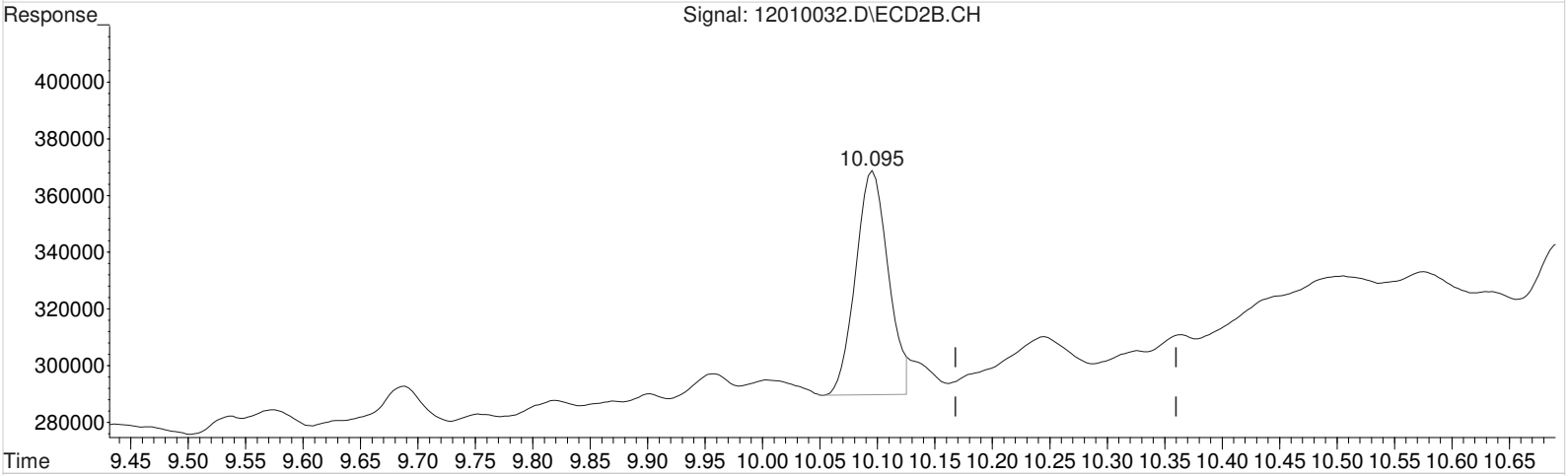
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010032.D Vial: 74
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:10 am Operator: UA
Sample : K2010456-019 5X Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:58 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.248min 0.069 ppb

response 6489

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.095min 0.774 ppb m

response 157137

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010035.D\
Lab ID: K2010456-020
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 06:19:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010035.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 06:19:00	**Vial:**	9
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-020	**Raw Units:**	ppb

Bottle ID:	K2010456-020.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	960550	3661326	52.787	86.561	53	87	53	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	10.10 -0.04	9685	115018	0.103	0.567	0.23U	1.2U	3.2 U	Y
2,4-D	9.33 +0.01	9.04 -0.03	3703	64121	0.174	1.252	0.38U	2.8U	11 U	Y

Prep Amount:	30.055 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	75.70

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:28:01 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...	7.989	7.823	960550	3661326	52.787m	86.561m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.329	9.036	3703	64121	0.174m	1.252 #
8)	m	2,4,5-TP ...	10.259	10.096	9685	115018	0.103	0.567 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:28:01 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
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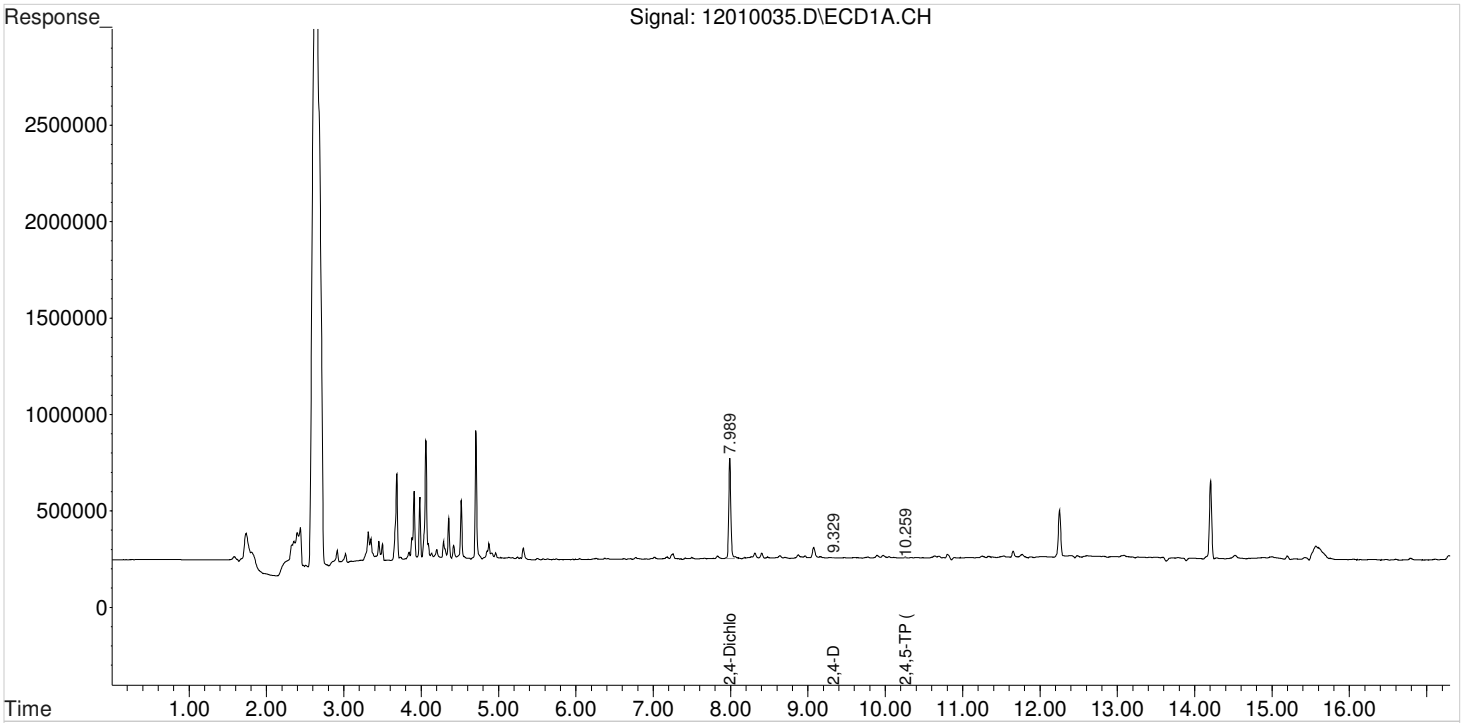
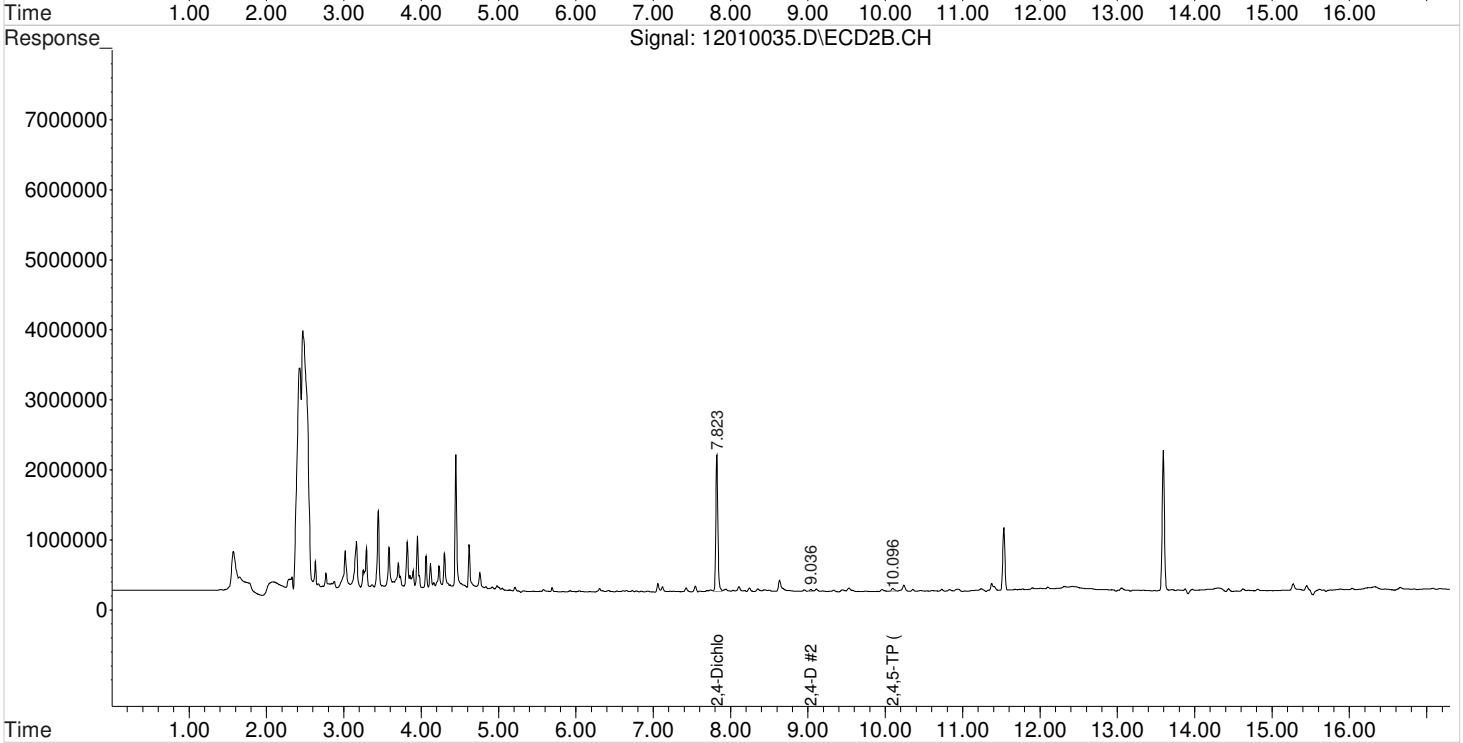
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





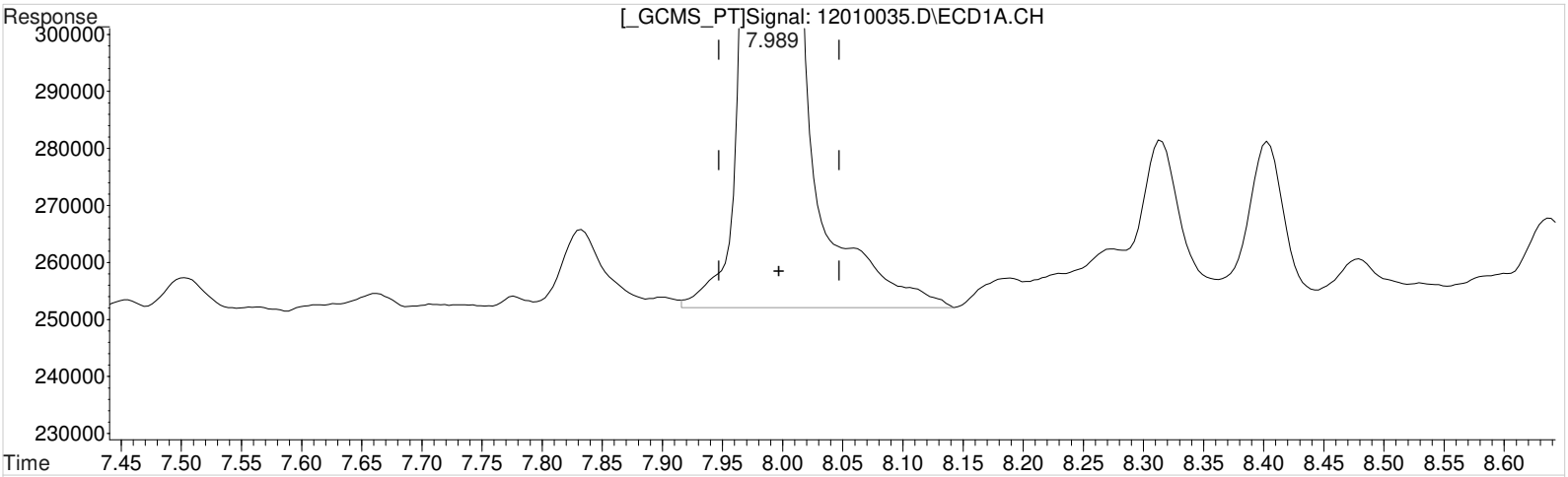
Quantitation Report (Qedit)

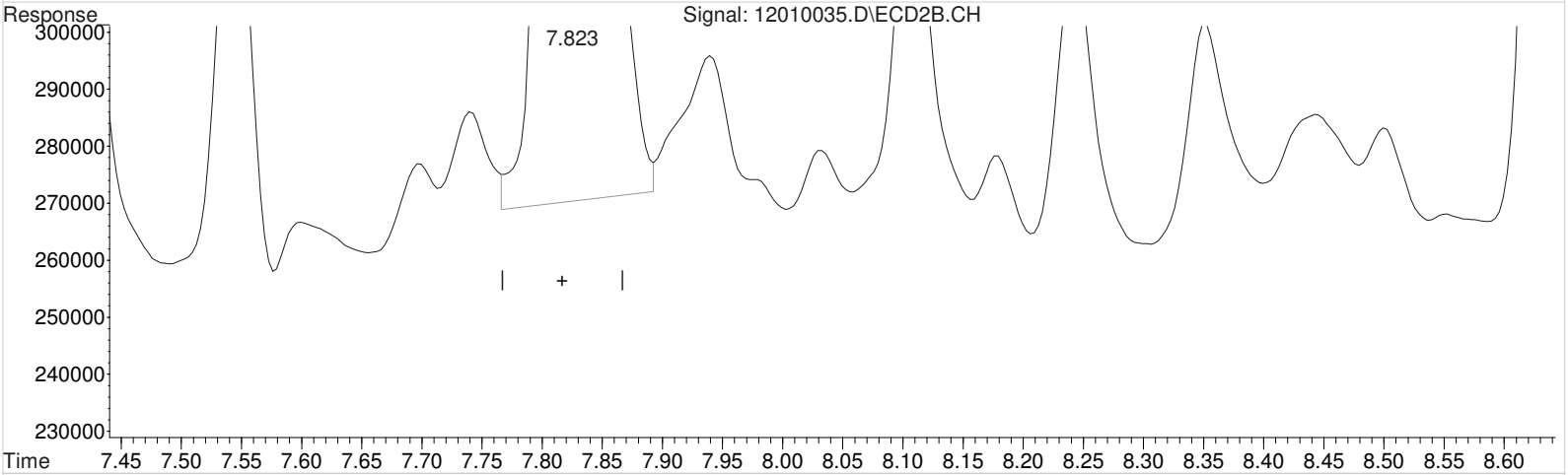
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:07 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





QEdit

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

7.989min 55.161 ppb

response 1003749

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

7.823min 85.099 ppb

response 3599524

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

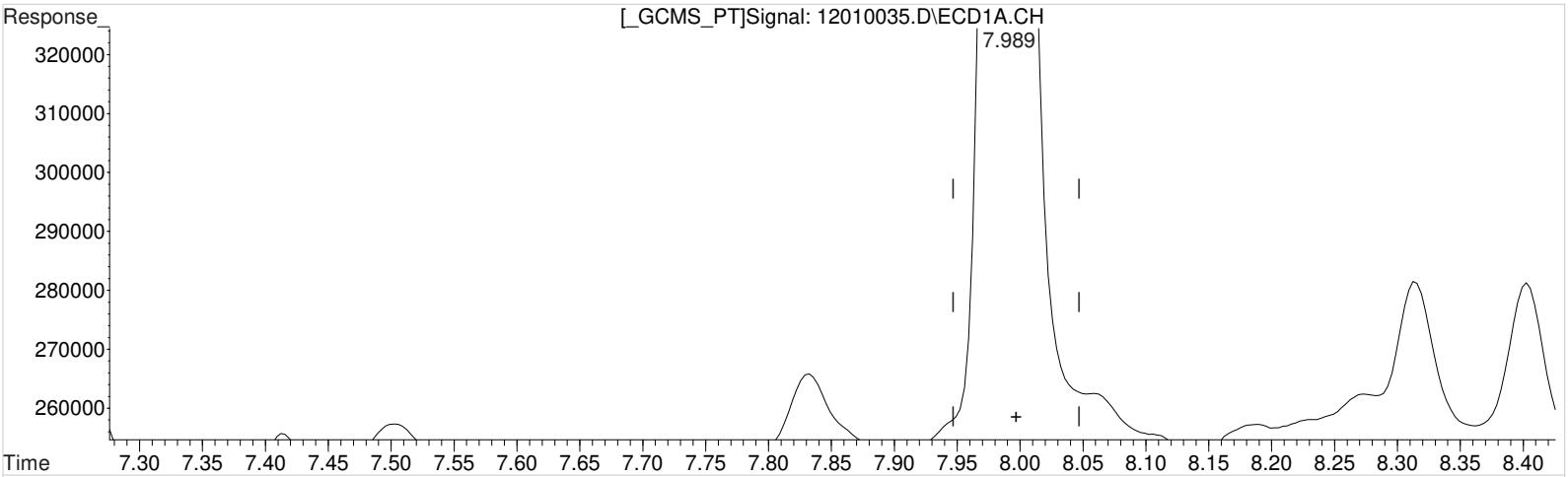
Quantitation Report (Qedit)

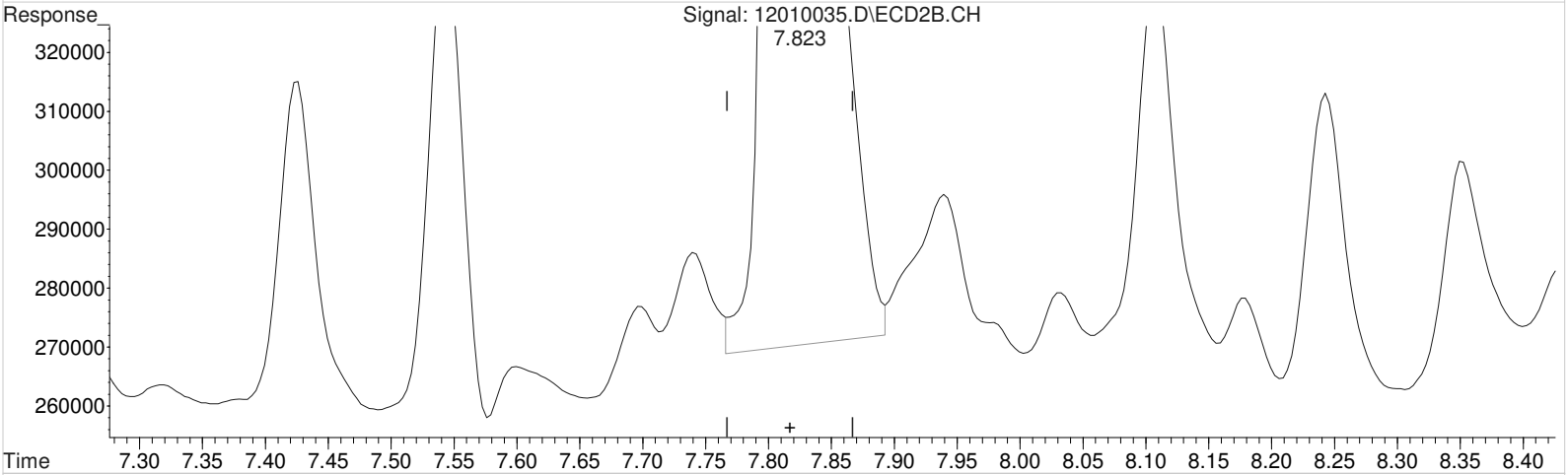
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:07 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





QEdit

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

7.989min 52.787 ppb m

response 960550

Manual Integration:

Before

12/02/20

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

7.823min 85.099 ppb

response 3599524

(+) = Expected Retention Time

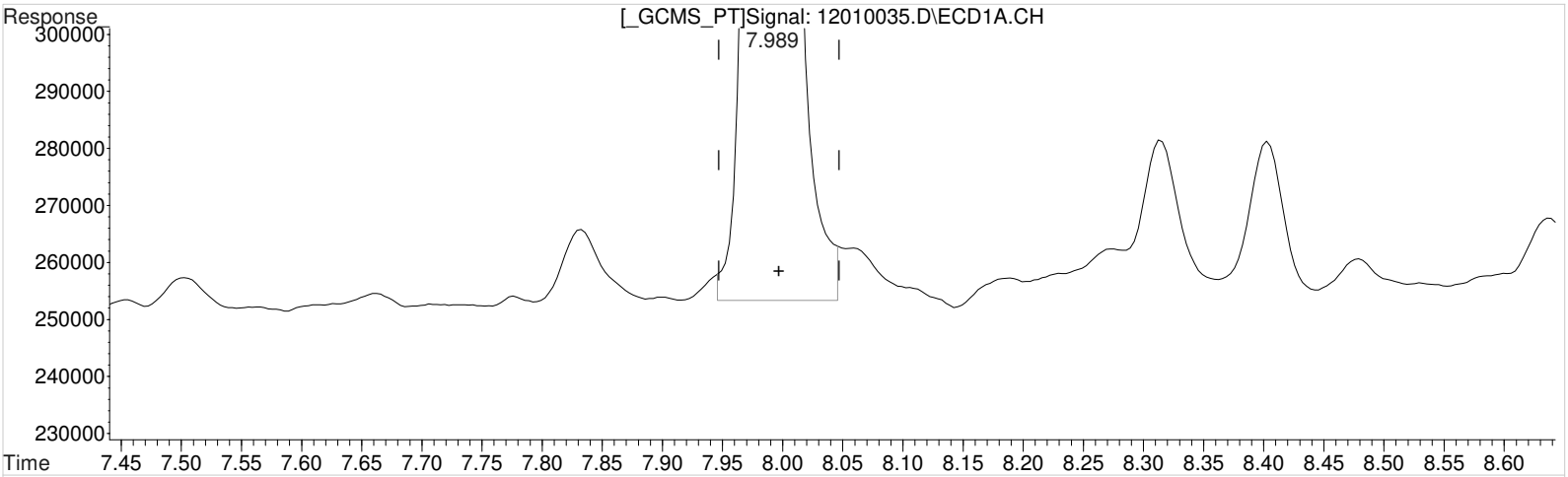
Quantitation Report (Qedit)

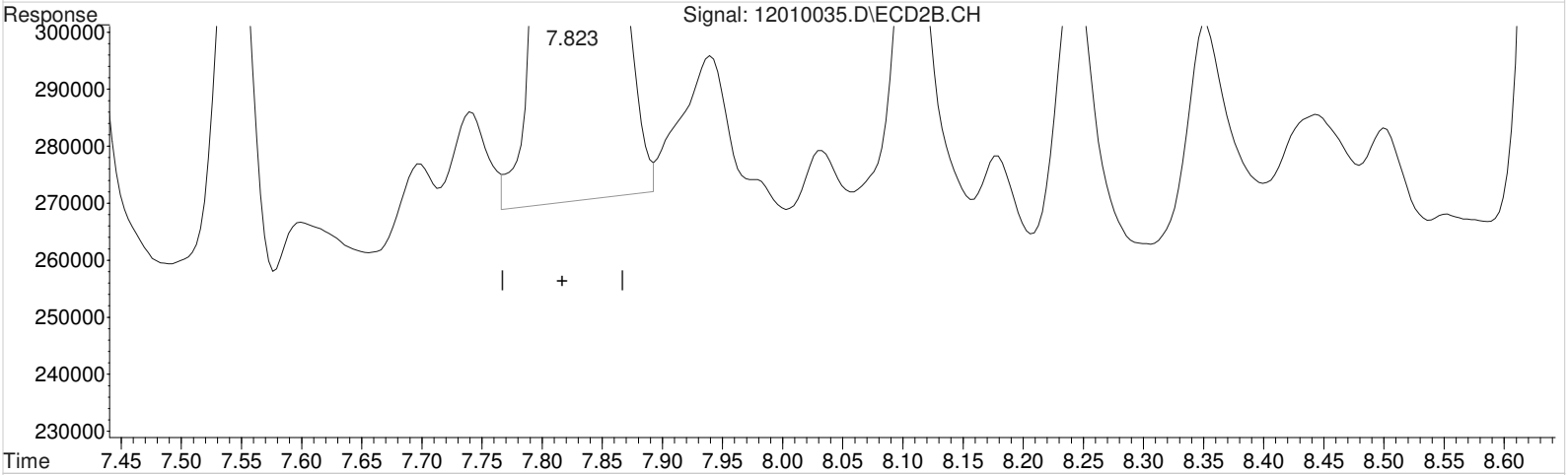
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:07 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





QEdit

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

7.989min 52.787 ppb m

response 960550

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.823min 85.099 ppb

response 3599524

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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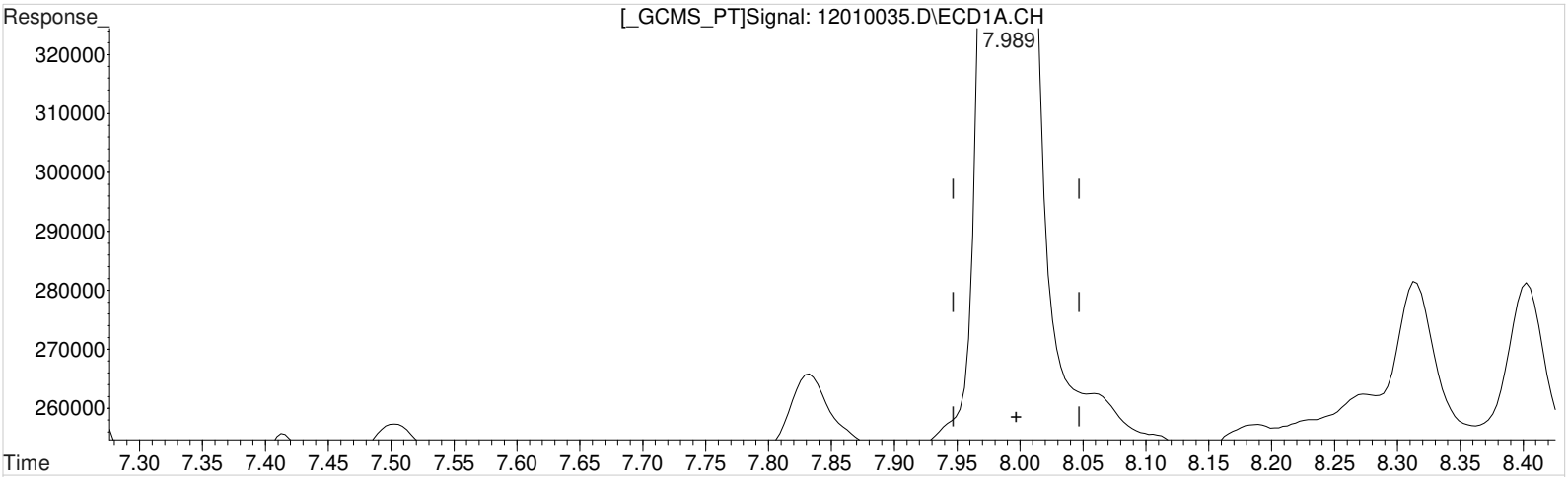
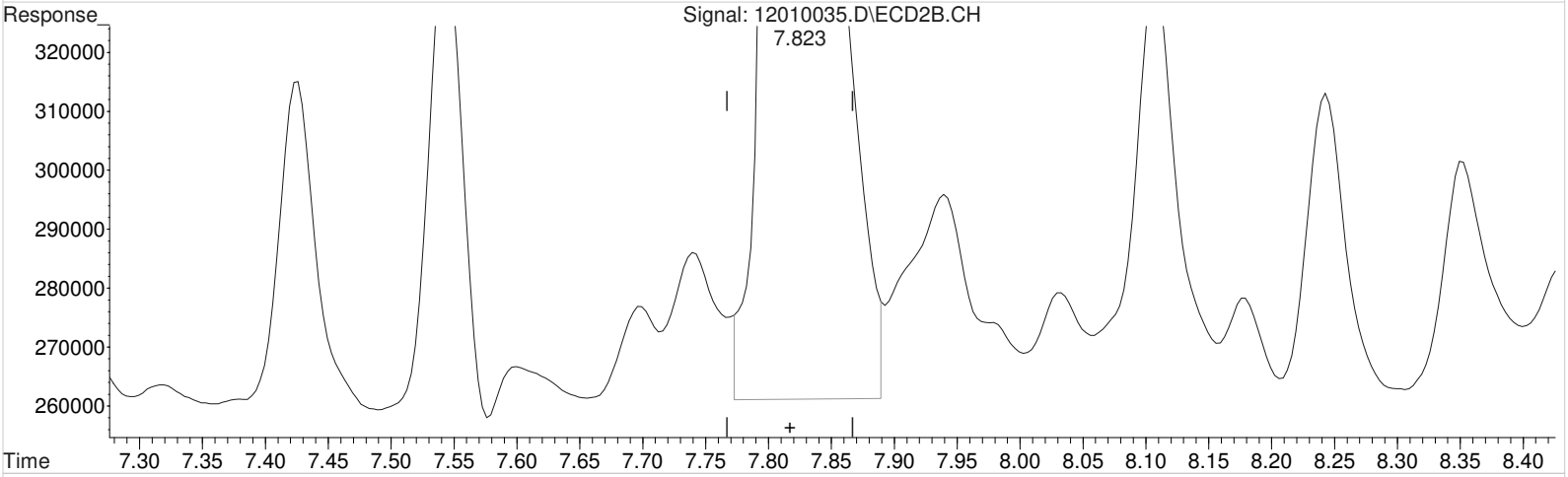
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

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

7.989min 52.787 ppb m

response 960550

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.823min 86.561 ppb m

response 3661326

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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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
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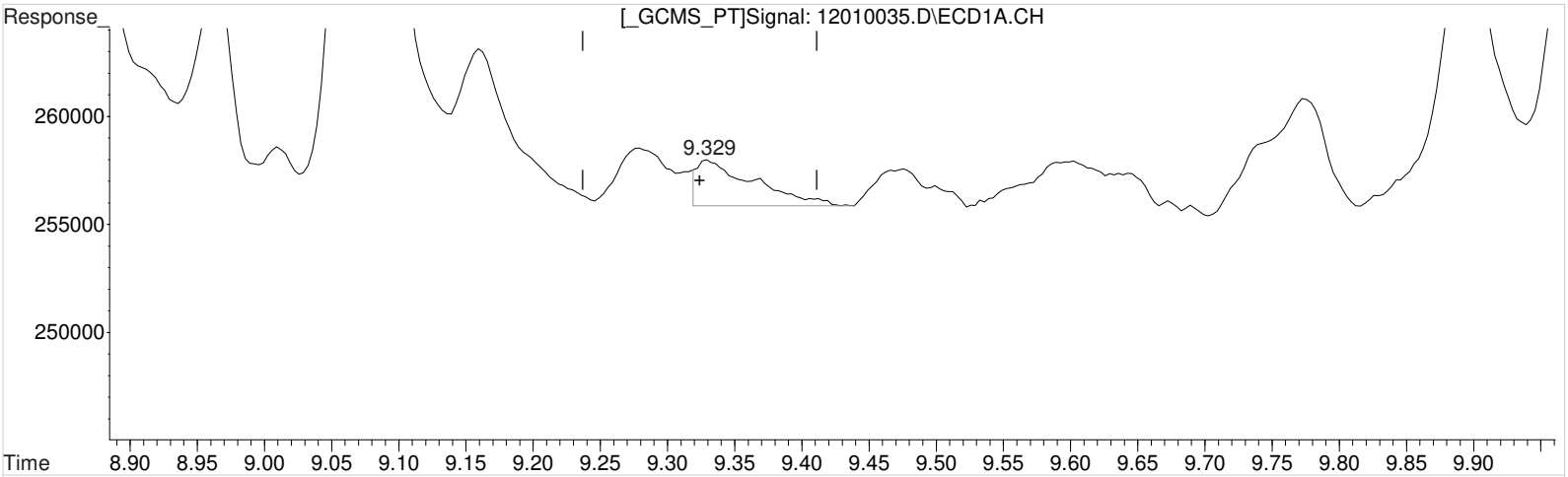
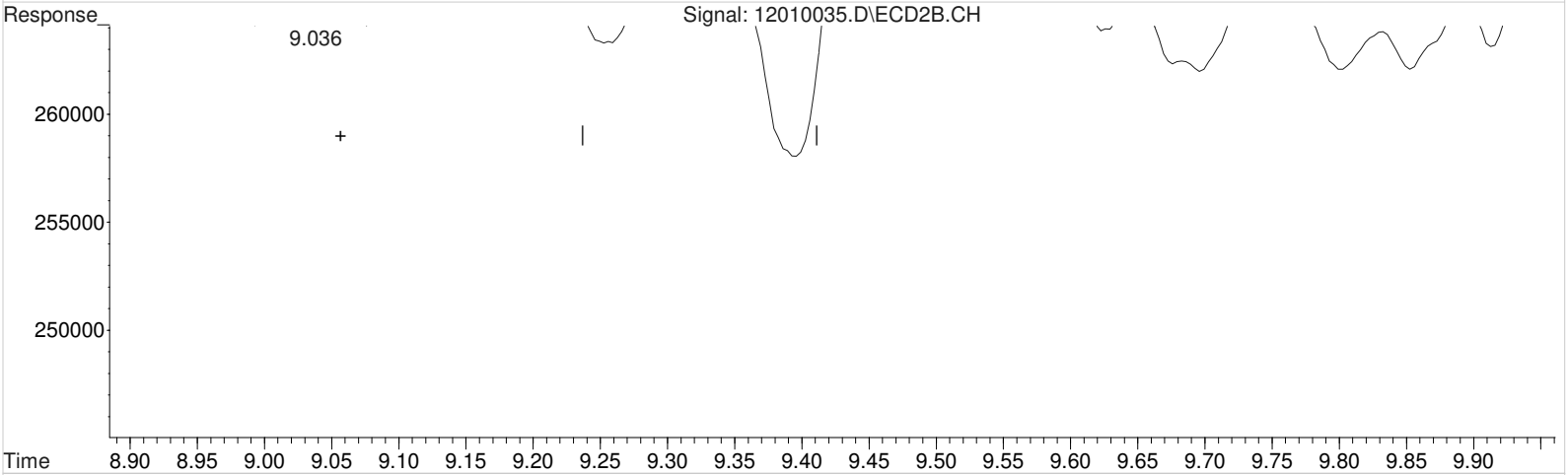
DataAcq Meth:8151A-17.M

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

(7) 2,4-D (m)

9.329min 0.292 ppb

response 6198

(7) 2,4-D #2 (m)

9.036min 1.252 ppb

response 64121

Manual Integration:

Before

12/02/20

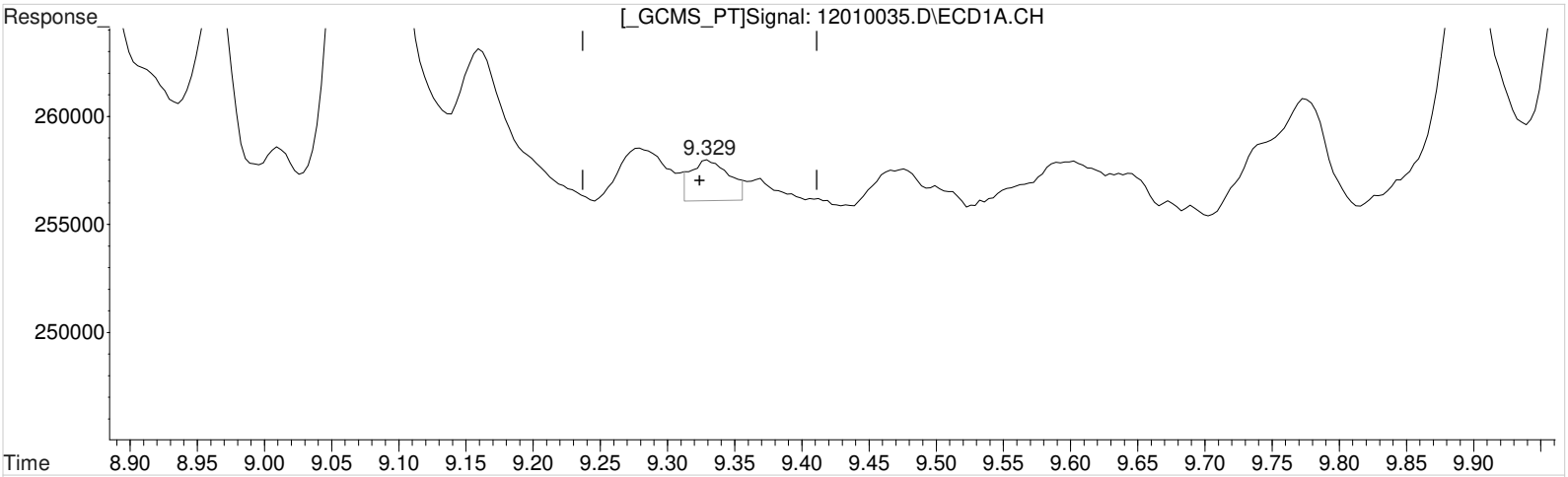
(+) = Expected Retention Time

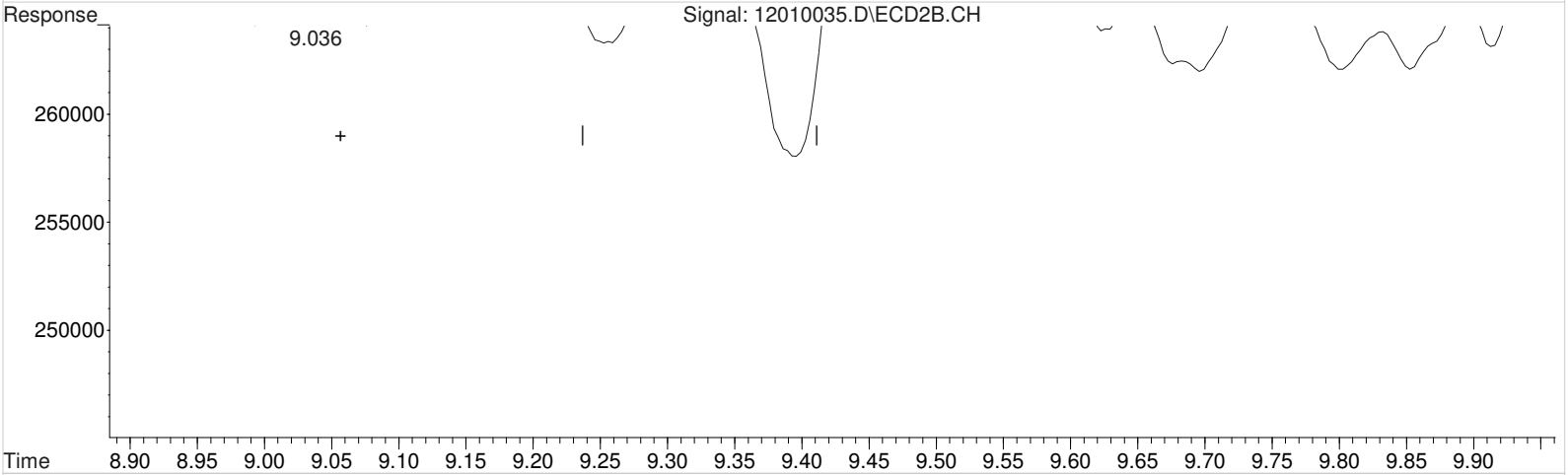
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010035.D Vial: 5
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:19 am Operator: UA
Sample : K2010456-020 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:07 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





QEdit

(7) 2,4-D (m)

9.329min 0.174 ppb m

response 3703

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.036min 1.252 ppb

response 64121

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010036.D\
Lab ID: K2010456-021
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 06:42:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010036.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 06:42:00	**Vial:**	10
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-021	**Raw Units:**	ppb

Bottle ID:	K2010456-021.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	1014523	3806762	55.753	89.999	56	90	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	10.26	10.13 -0.01	5251	14637	0.056	0.072	0.12U	0.16U	3.2 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	3741	68197	0.176	1.332	0.39U	2.9U	11 U	Y

Prep Amount:	30.076 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	75.50

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:32:32 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...	7.990	7.824	1014523	3806762	55.753m	89.999m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.280	9.040	3741	68197	0.176	1.332 #
8)	m	2,4,5-TP ...	10.257	10.130	5251	14637	0.056m	0.072 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

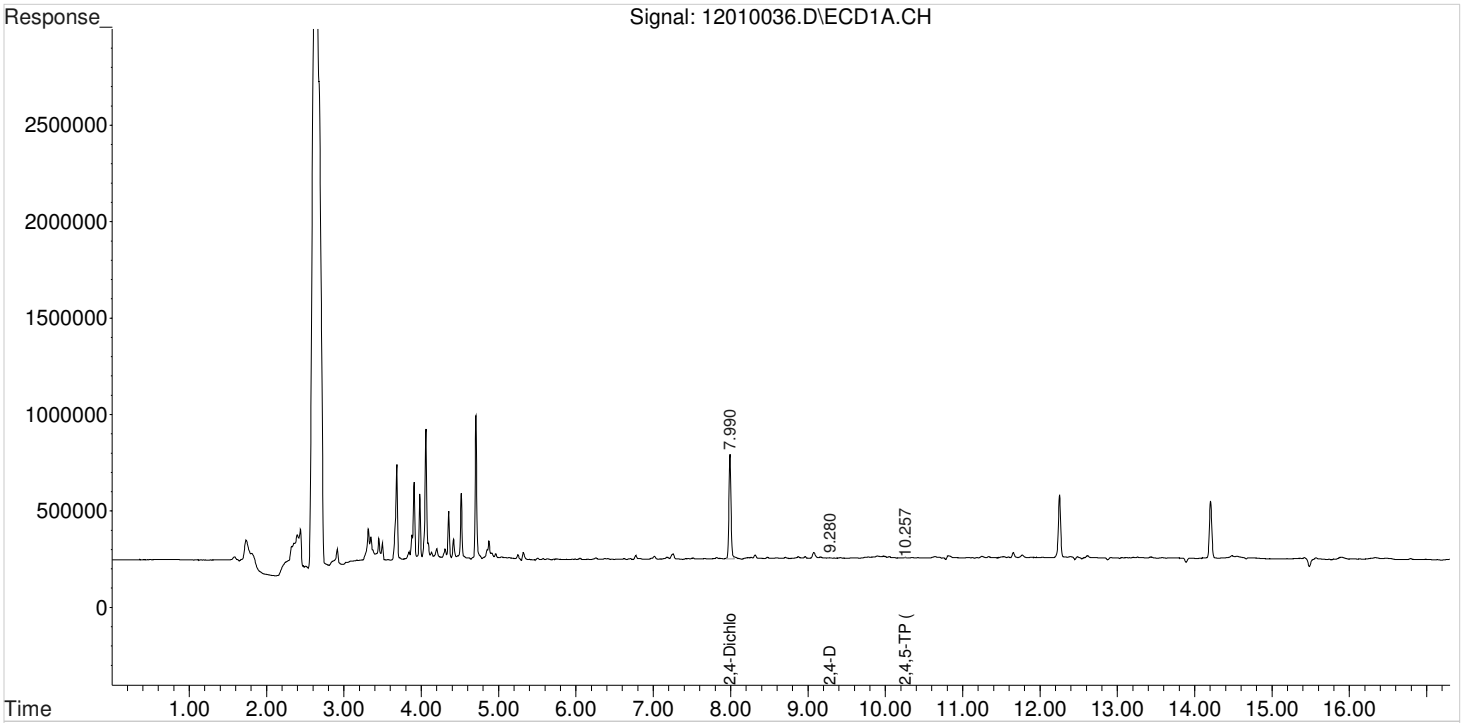
Quantitation Report (QT Reviewed)

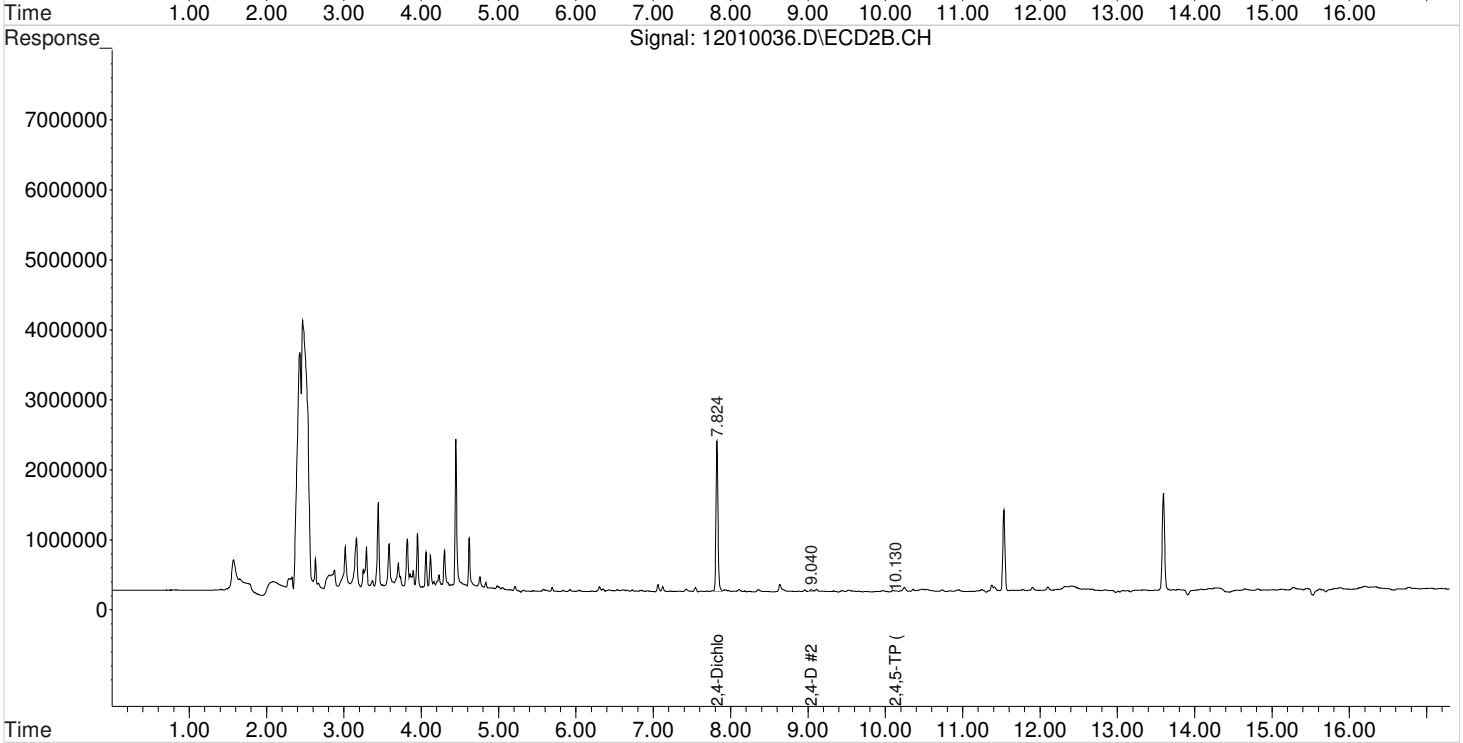
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:32:32 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





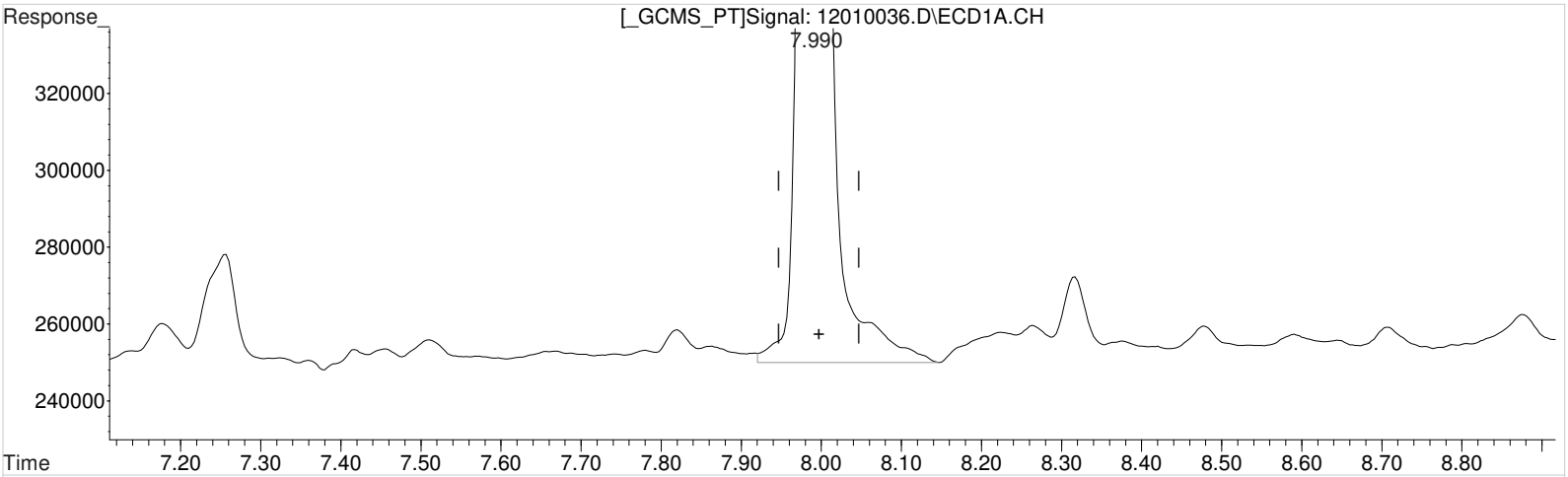
Quantitation Report (Qedit)

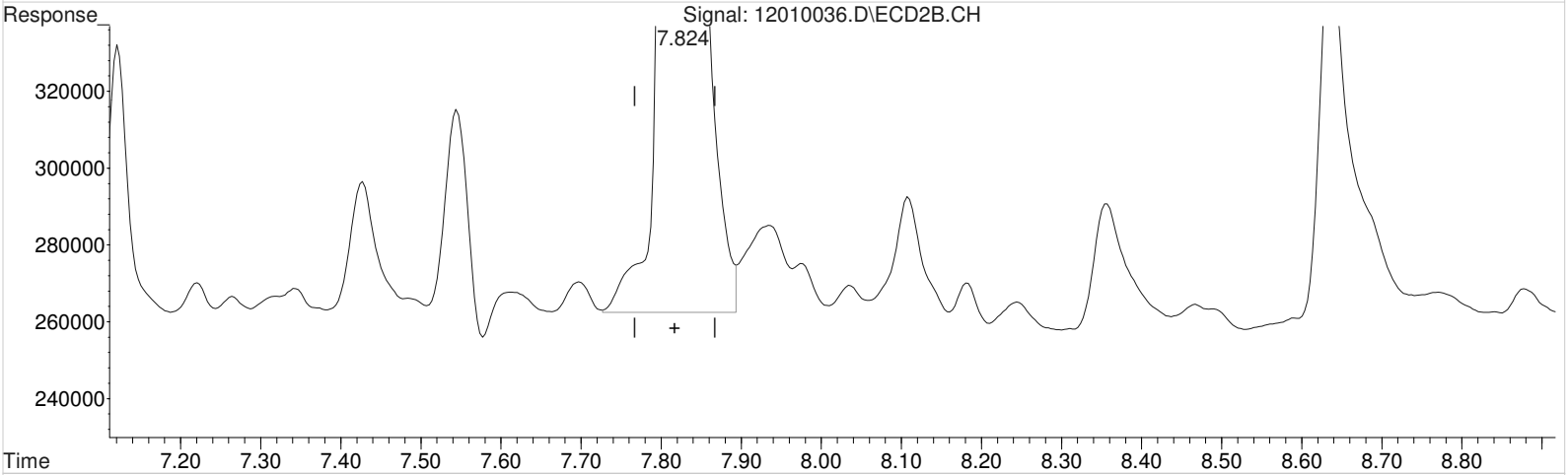
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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





QEdit

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

7.990min 58.198 ppb

response 1059015

Manual Integration:

Before

12/02/20

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

7.824min 90.612 ppb

response 3832712

(+) = Expected Retention Time

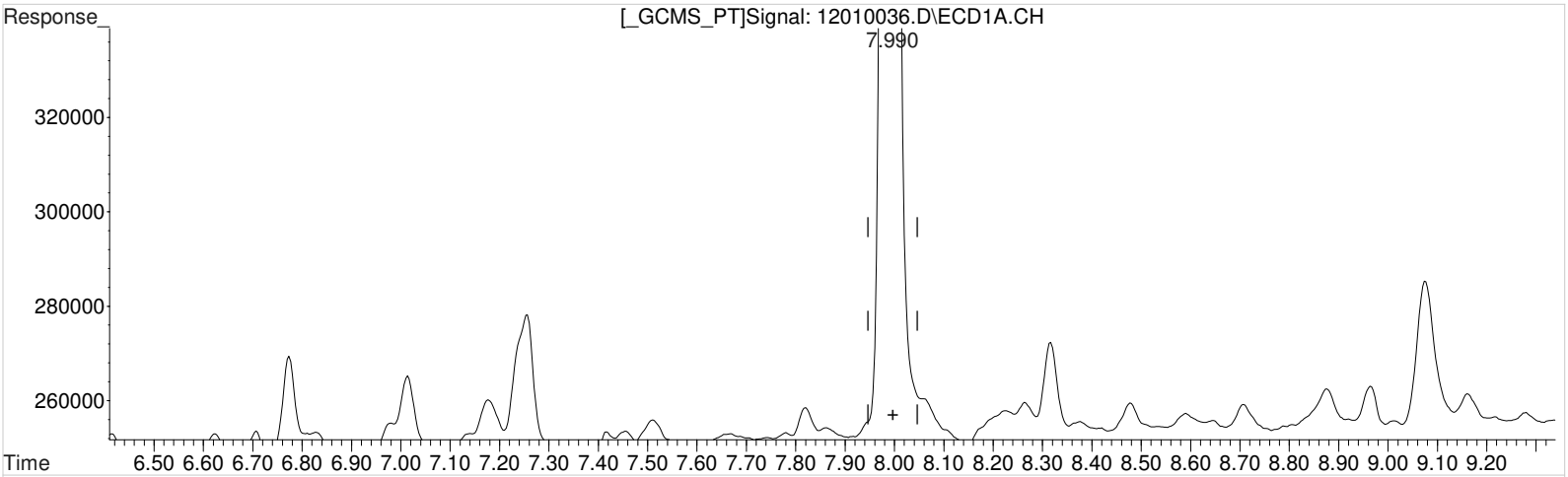
Quantitation Report (Qedit)

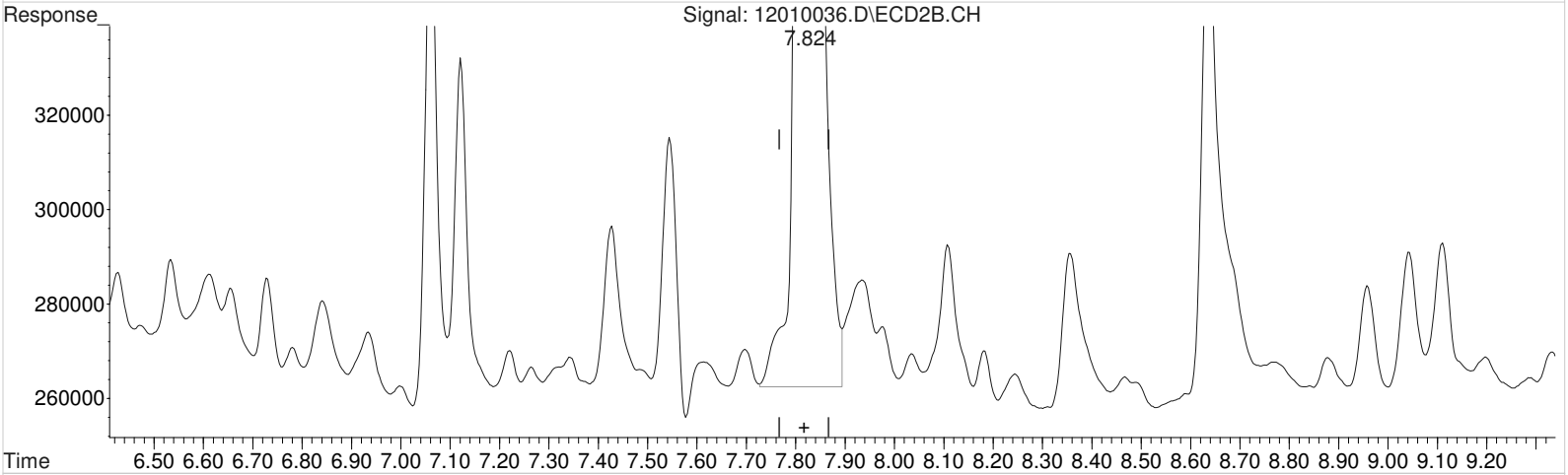
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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





QEdit

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

7.990min 55.753 ppb m

response 1014523

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

7.824min 90.612 ppb

response 3832712

Manual Integration:

Before

12/02/20

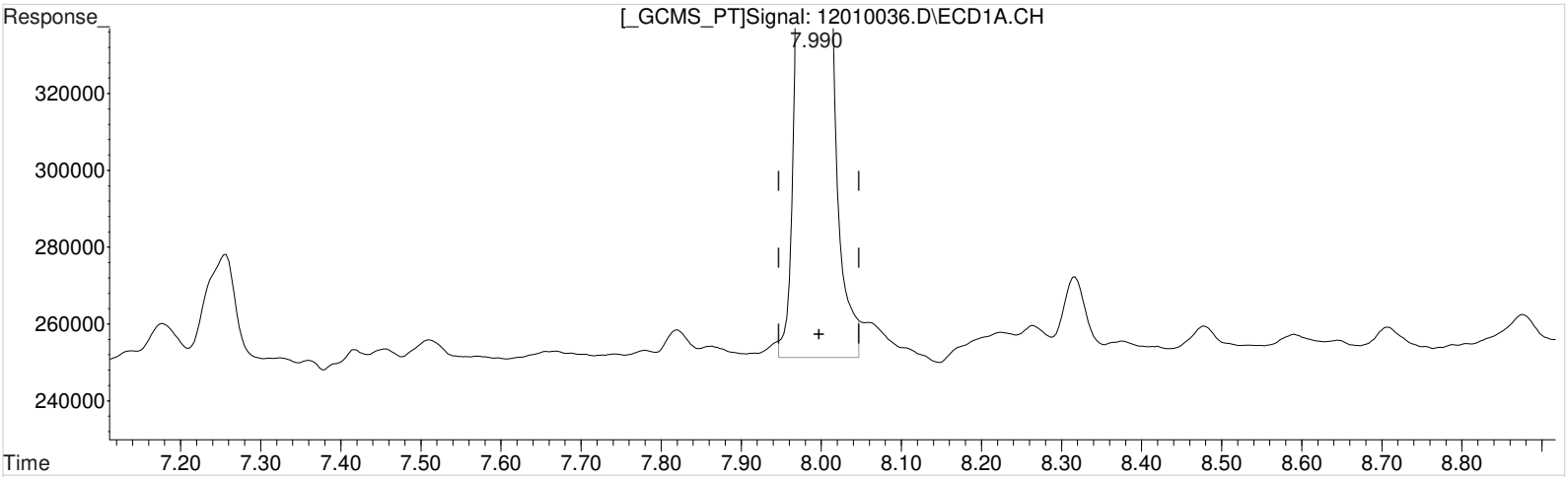
(+) = Expected Retention Time

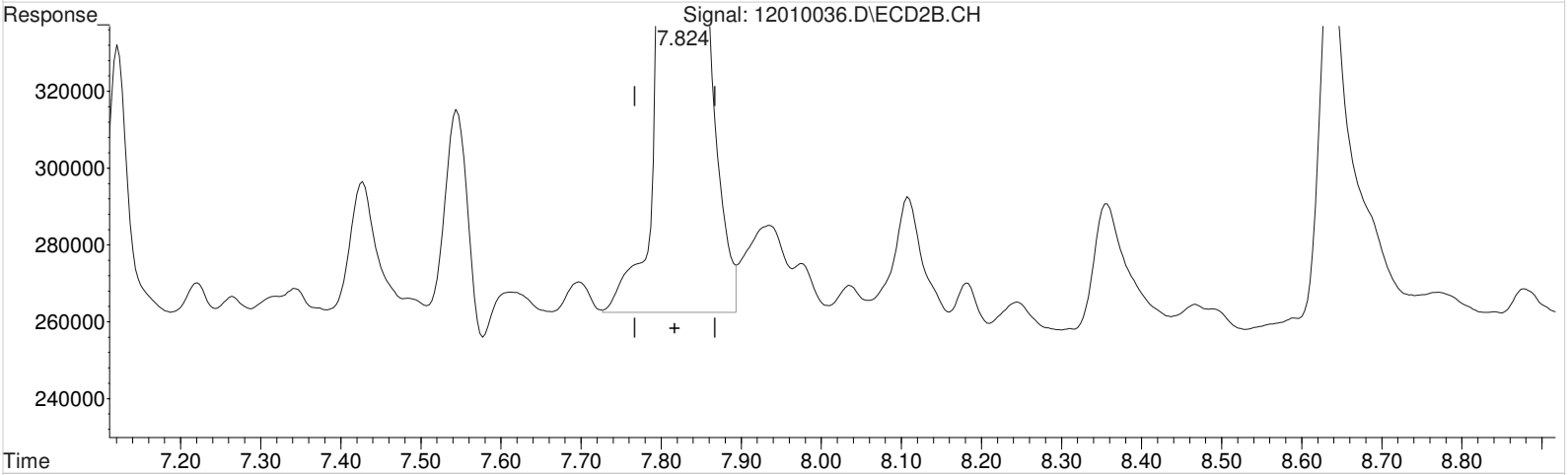
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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





QEdit

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

7.990min 55.753 ppb m

response 1014523

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 90.612 ppb

response 3832712

(+) = Expected Retention Time

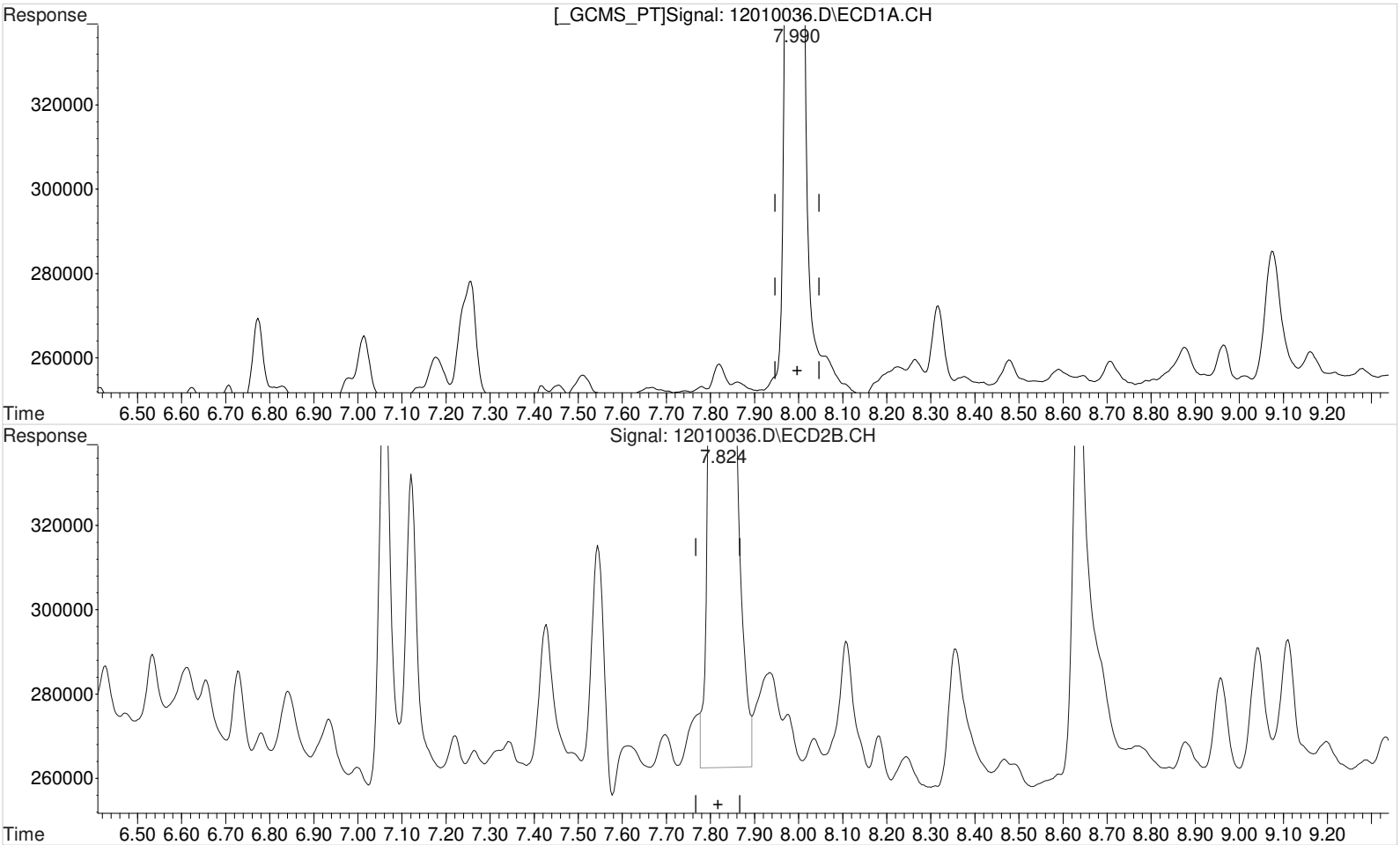
Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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



QEdit

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

7.990min 55.753 ppb m

response 1014523

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 89.999 ppb m

response 3806762

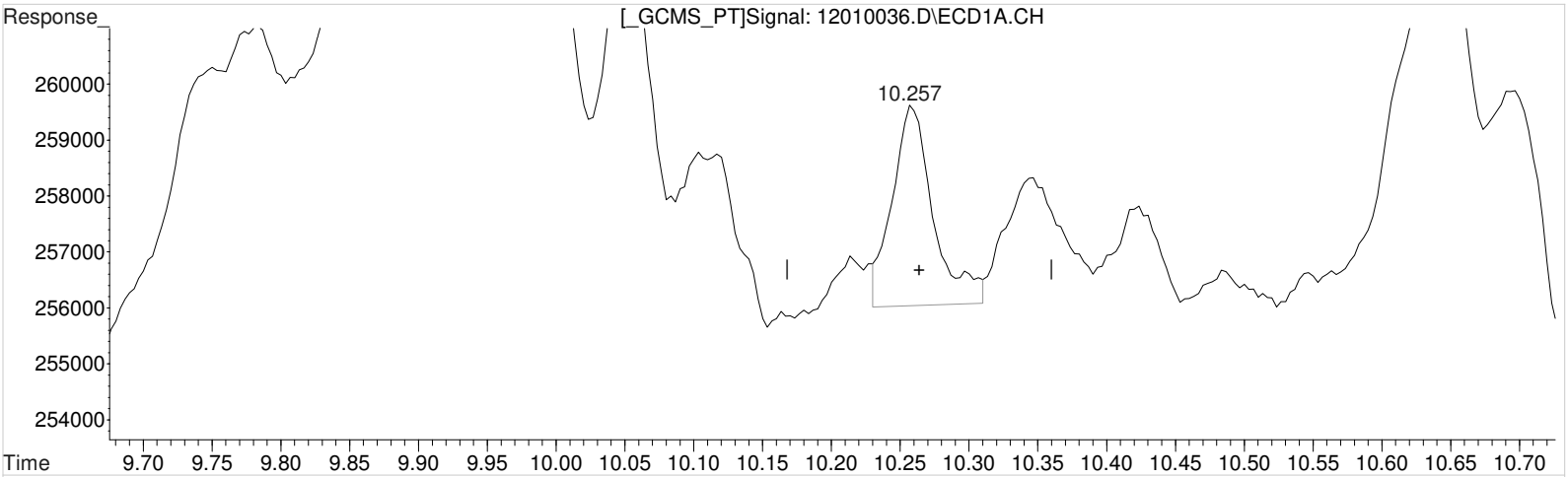
(+) = Expected Retention Time

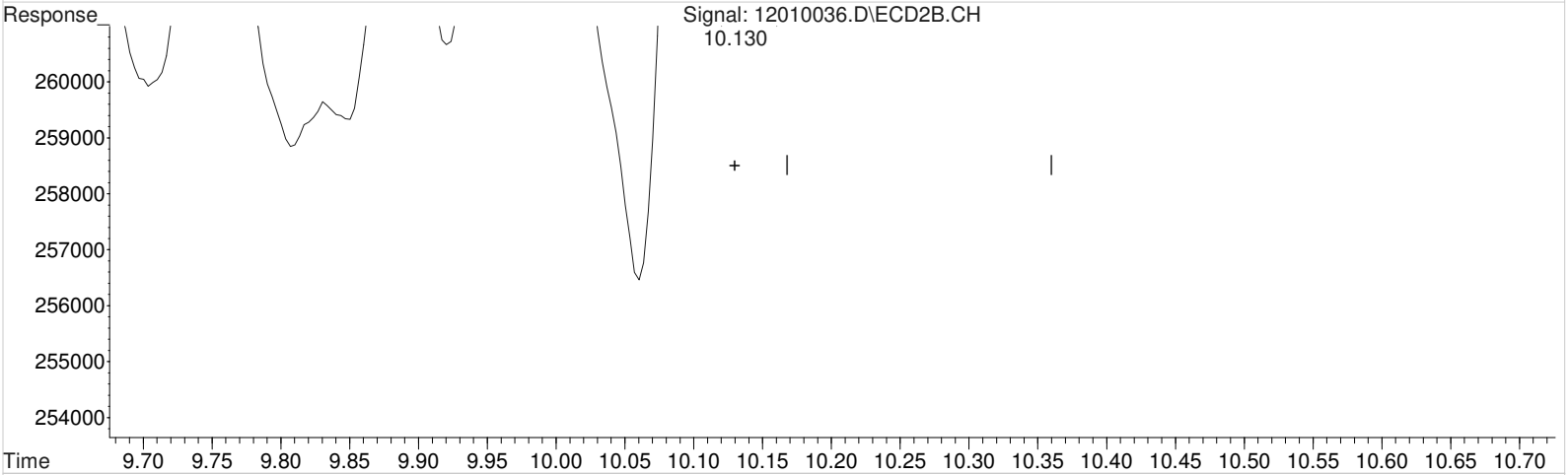
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.257min 0.079 ppb

response 7427

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.072 ppb

response 14637

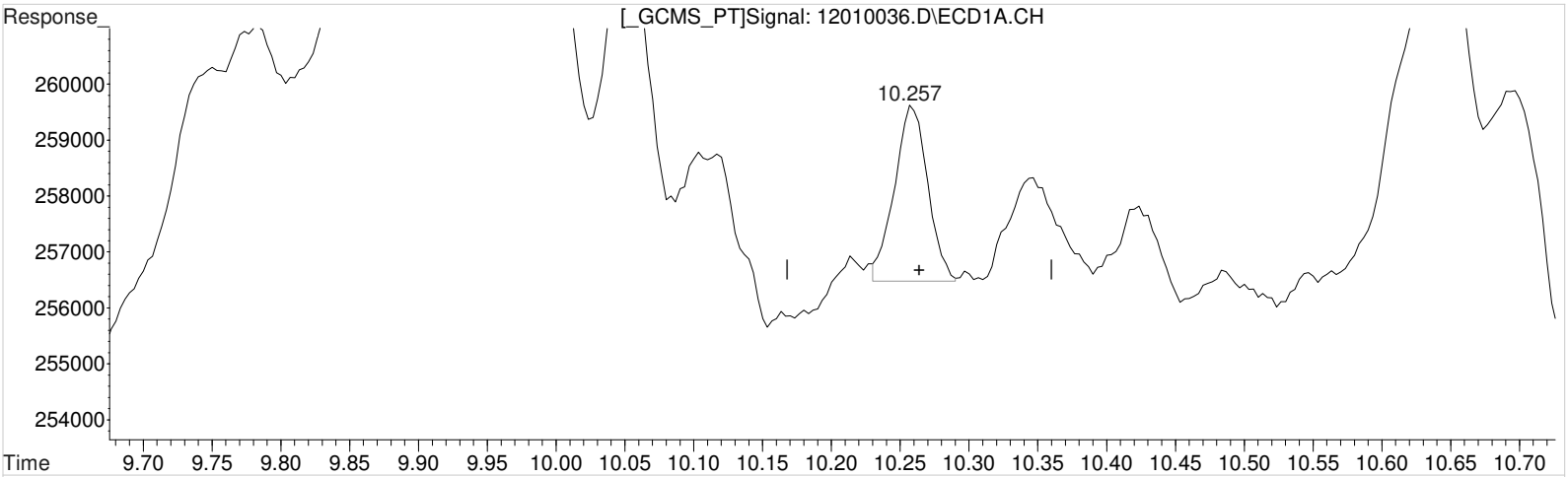
(+) = Expected Retention Time

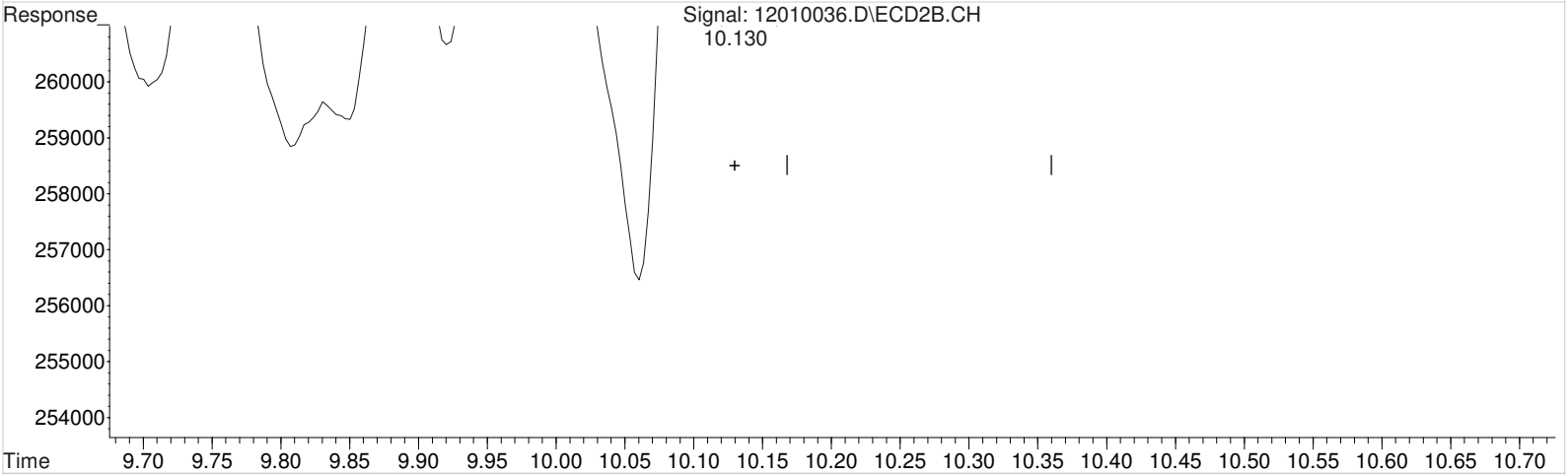
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010036.D Vial: 6
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:42 am Operator: UA
Sample : K2010456-021 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:10 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.257min 0.056 ppb m

response 5251

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.072 ppb

response 14637

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010065.D\
Lab ID: K2010456-022
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 17:46:00
Batch ID: 705654
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	

Analyte Exceptions

Exception Categories	Analyte Name	Result	Low Limit	High Limit	Corrective Action
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

Printed: 12/3/20 17:23
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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010065.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 17:46:00	**Vial:**	2
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-022	**Raw Units:**	ppb

Bottle ID:	K2010456-022.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.97 -0.01	7.81	985232	3816846	54.144	90.237	54	90	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	10.24	10.12	8101	18360	0.086	0.090 CCV	0.16U	0.17U	2.8 U	Y
2,4-D	9.36 +0.06	9.03 -0.02	3519	64171	0.166	1.253	0.32U	2.4U	8.9 U	Y

Prep Amount:	30.198 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.60

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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:51:26 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...	7.974	7.807	985232	3816846	54.144m	90.237 #
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.361	9.027	3519	64171	0.166	1.253m#
8) m	2,4,5-TP ...	10.241	10.117	8101	18360	0.086	0.090m
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

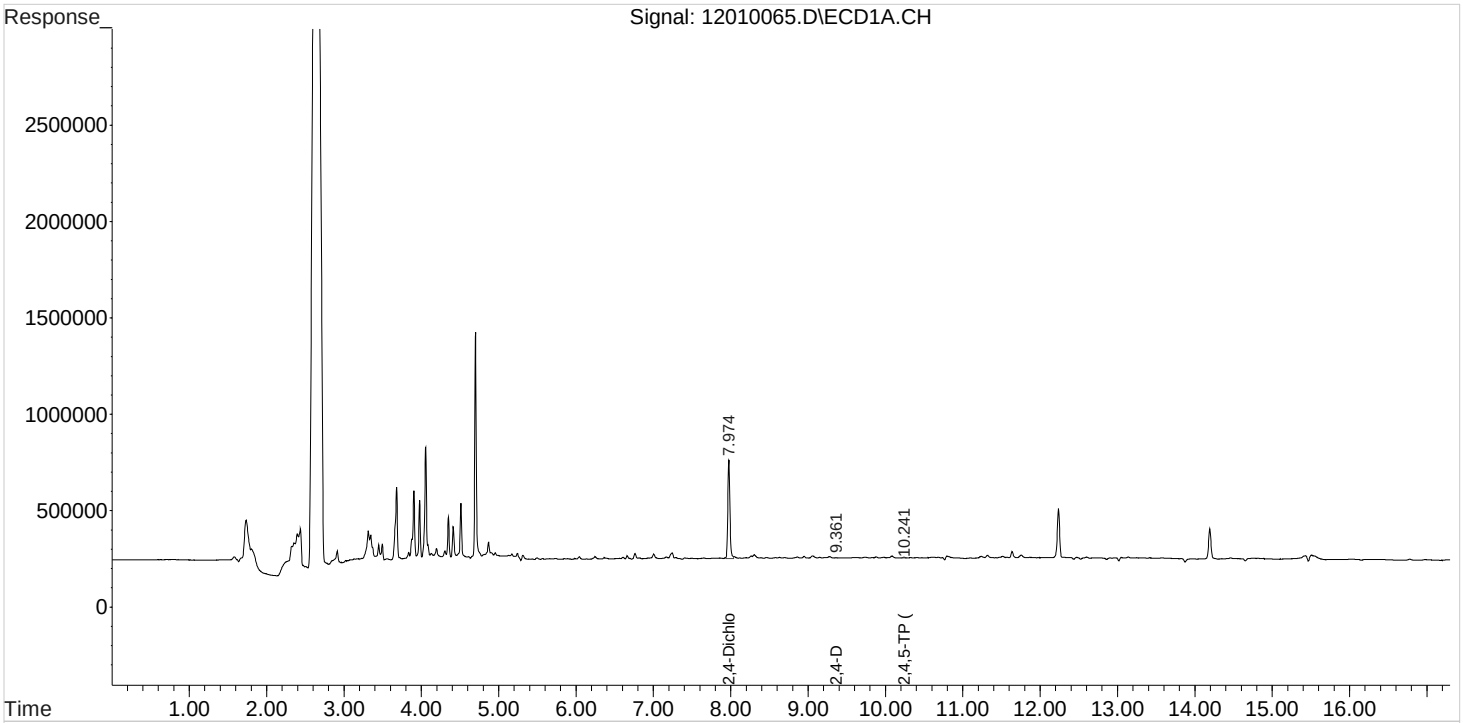
Quantitation Report (QT Reviewed)

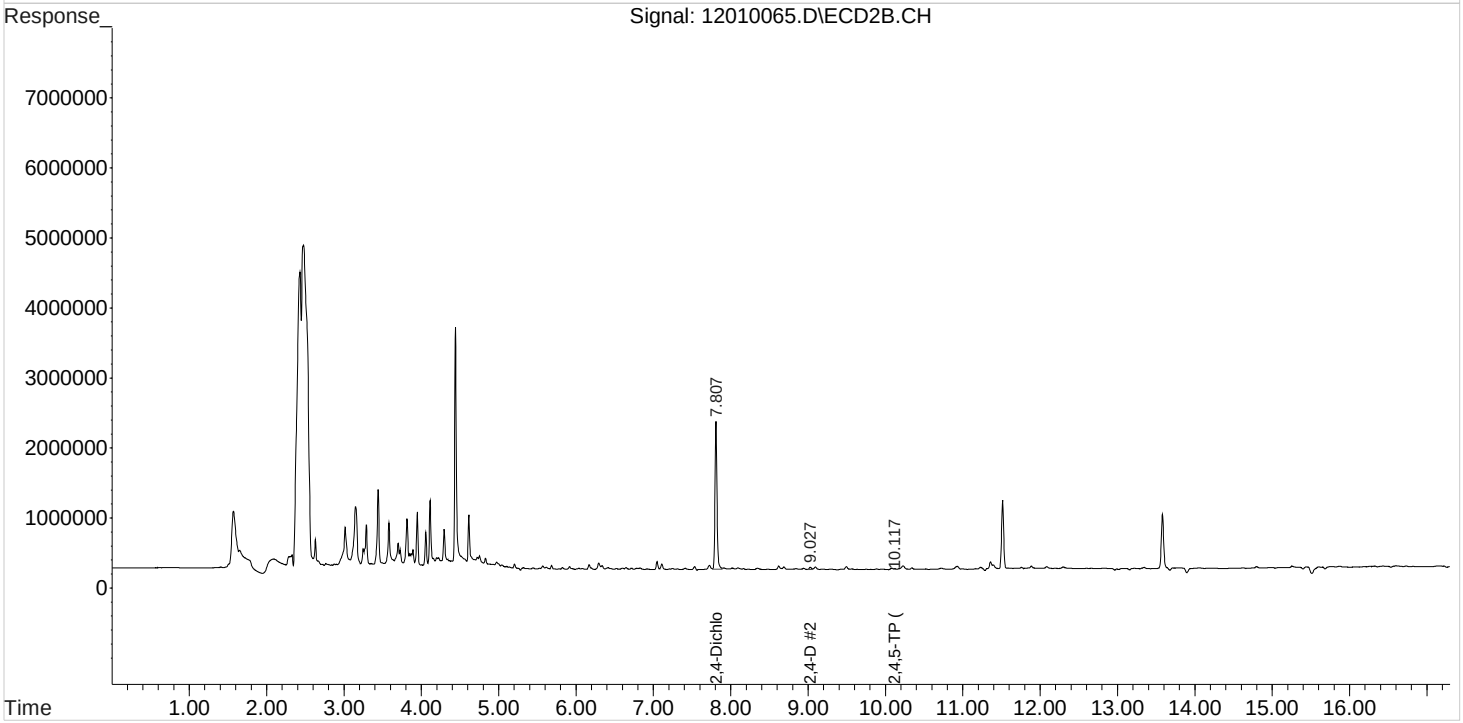
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:51:26 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



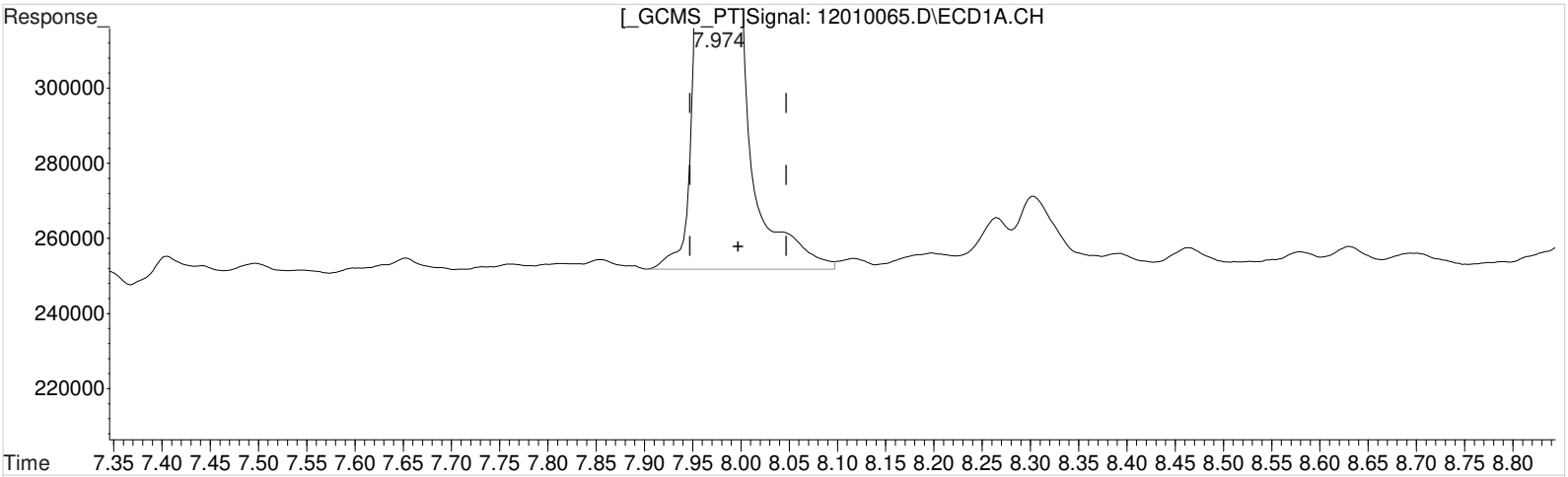


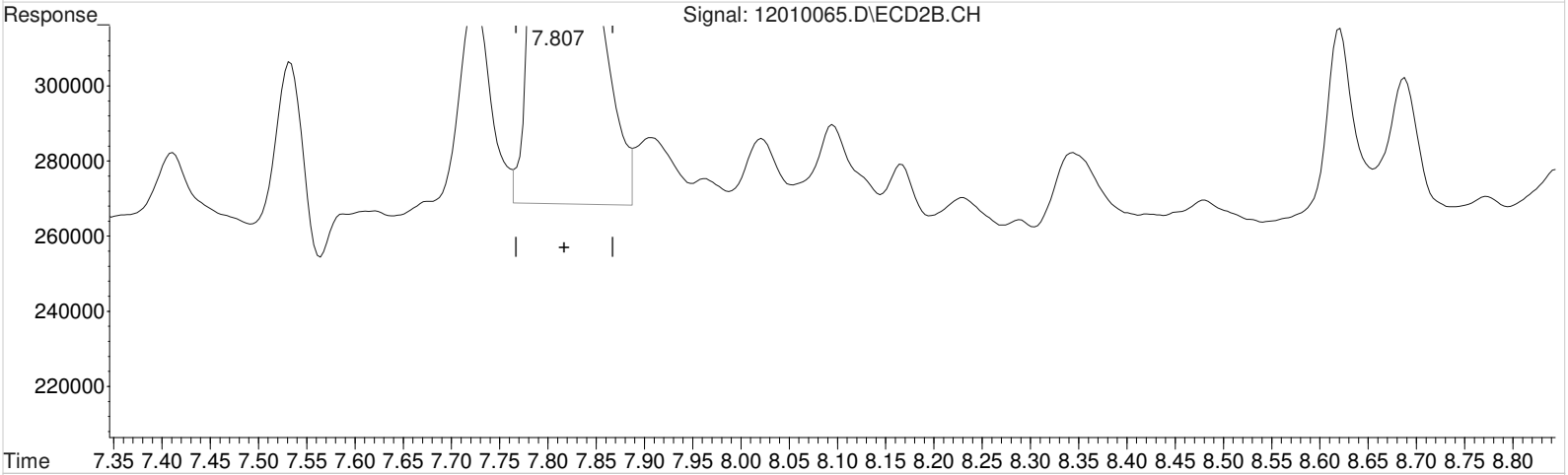
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:06 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 17:31:59 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





QEdit

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

7.974min 55.445 ppb

response 1008917

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

7.807min 90.237 ppb

response 3816846

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

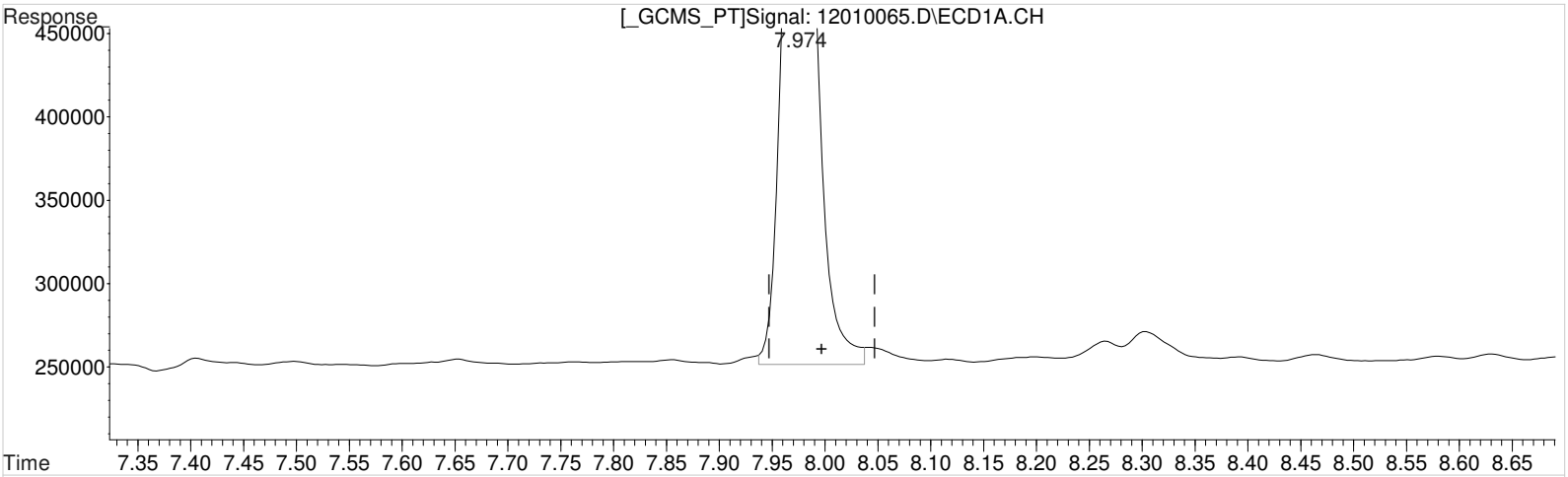
Quantitation Report (Qedit)

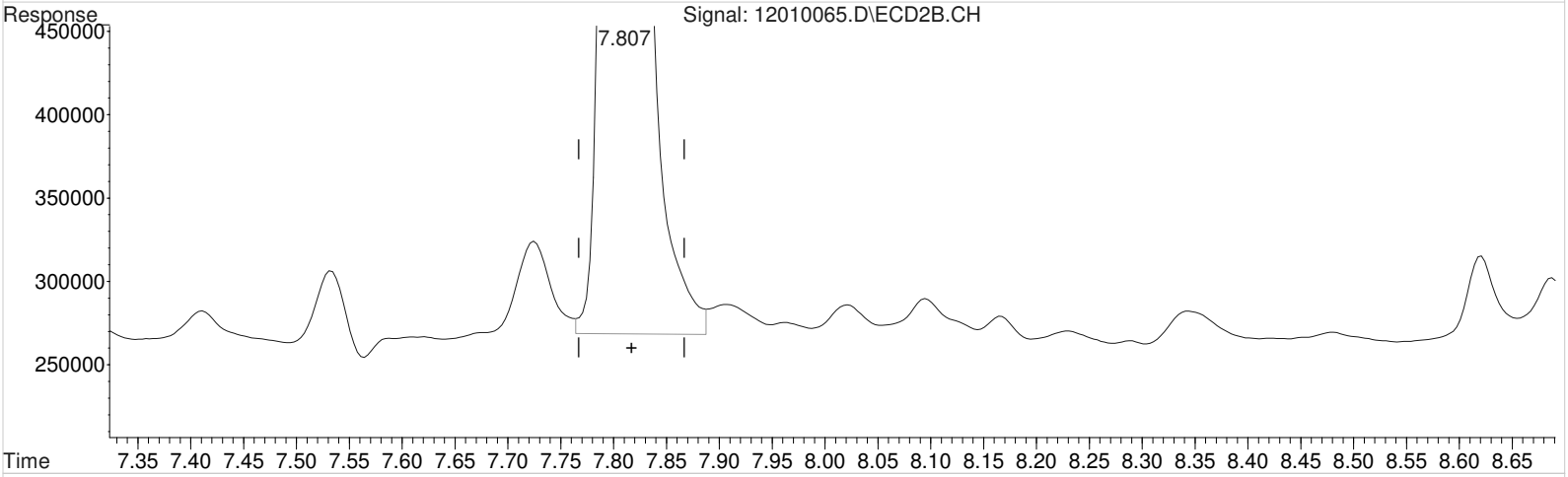
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:51:26 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





QEdit

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

7.974min 54.144 ppb m

response 985232

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.807min 90.237 ppb

response 3816846

(+) = Expected Retention Time

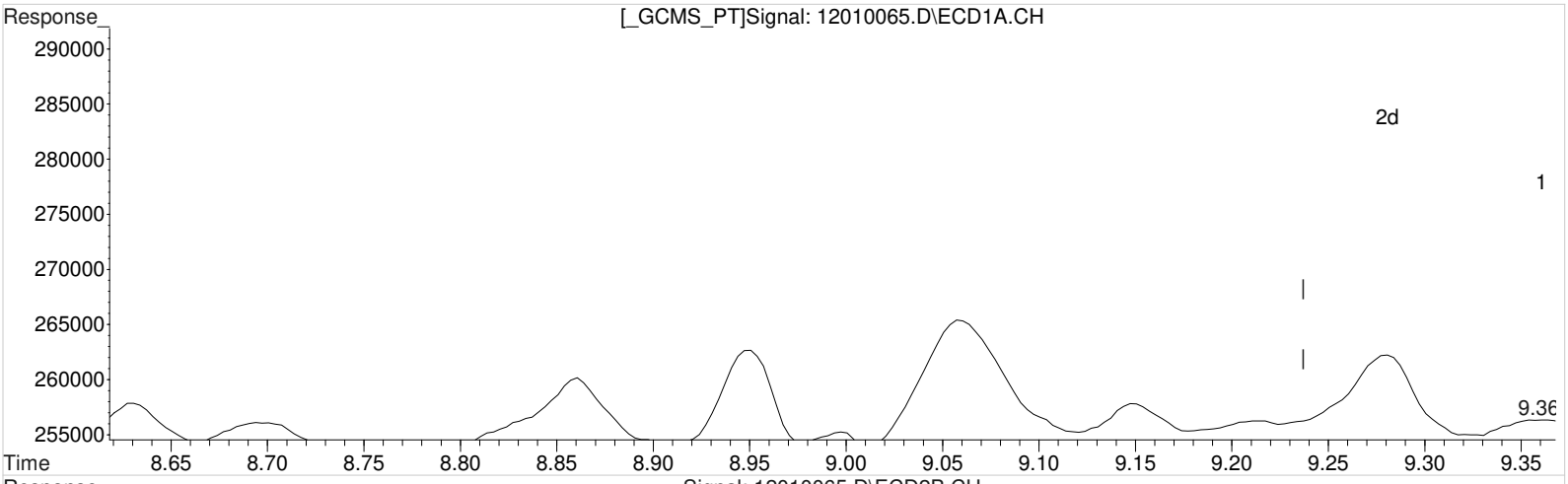
Quantitation Report (Qedit)

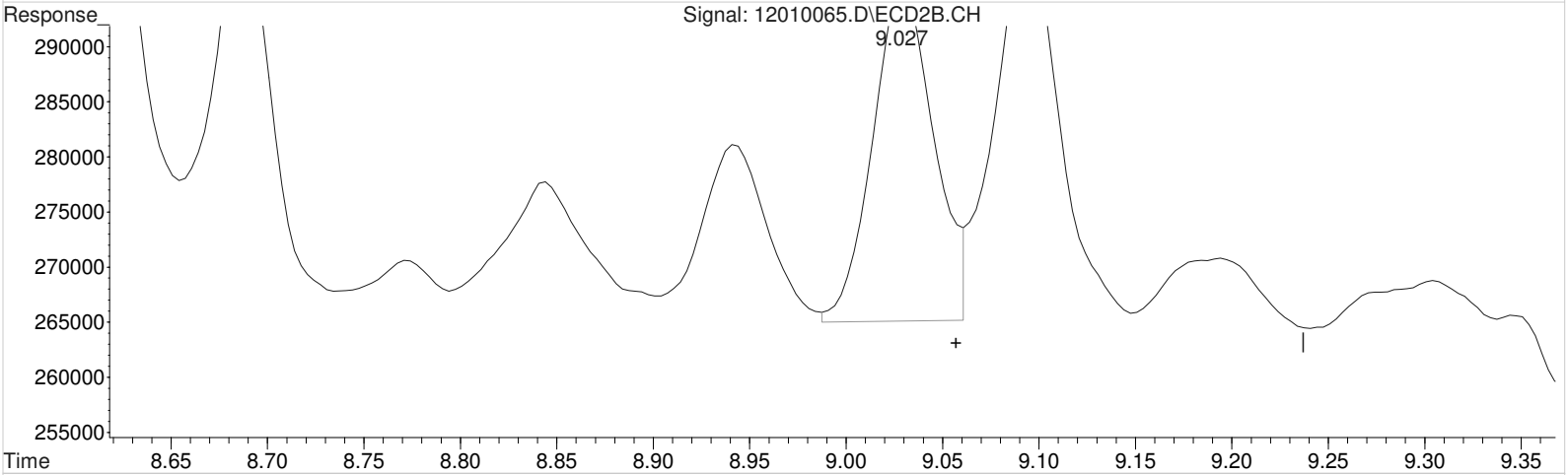
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:06 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 17:31:59 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





QEdit

(7) 2,4-D (m)

9.361min 0.166 ppb

response 3519

(7) 2,4-D #2 (m)

9.027min 1.324 ppb

response 67810

Manual Integration:

Before

12/02/20

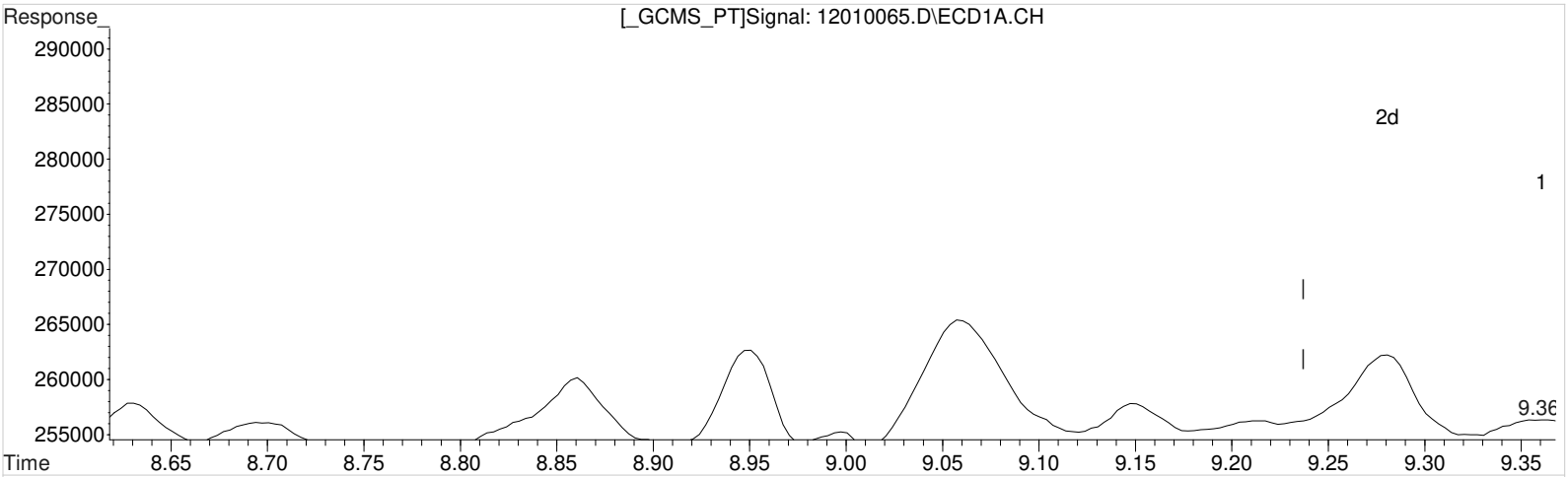
(+) = Expected Retention Time

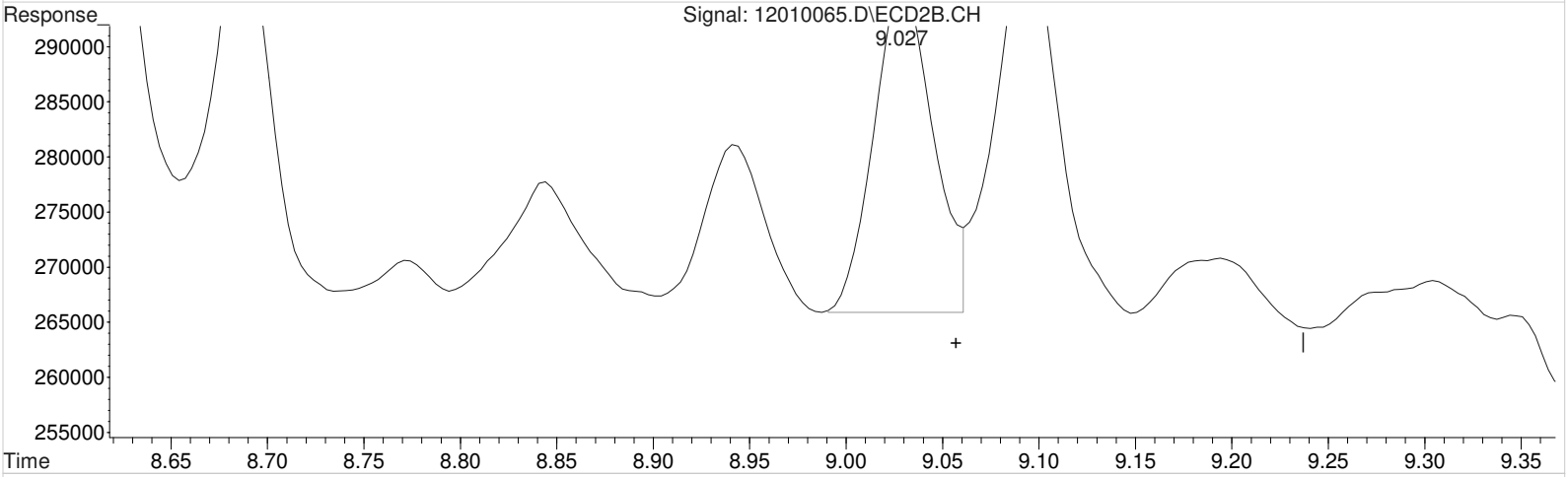
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:06 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 17:31:59 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





QEdit

(7) 2,4-D (m)

9.361min 0.166 ppb

response 3519

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.027min 1.253 ppb m

response 64171

(+) = Expected Retention Time

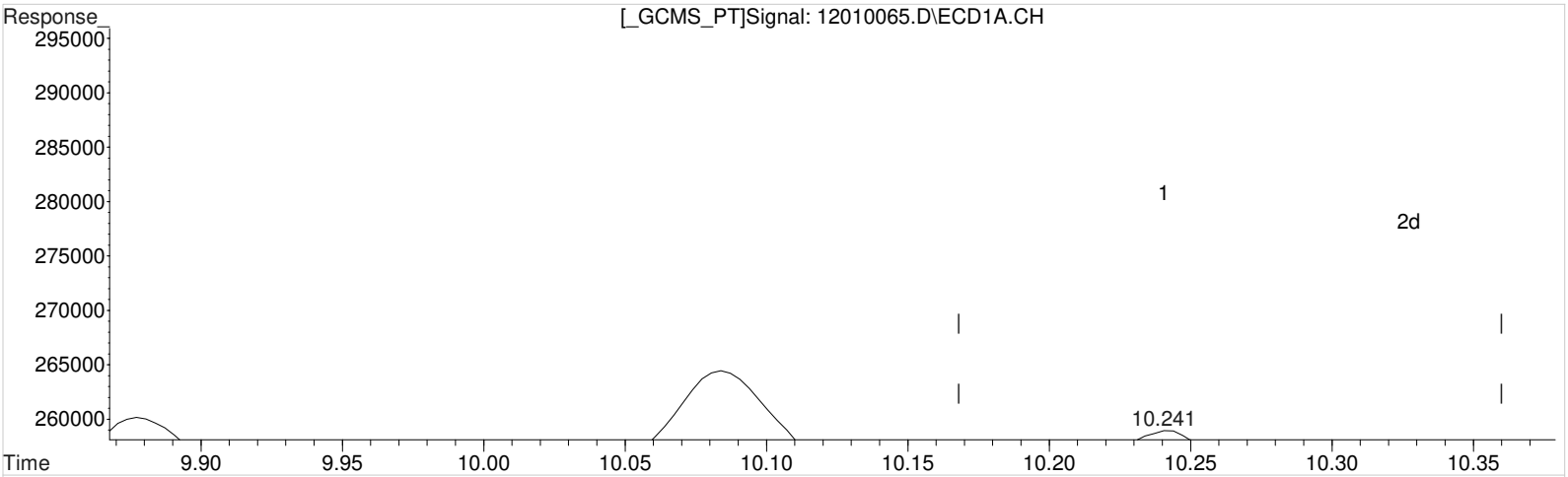
Quantitation Report (Qedit)

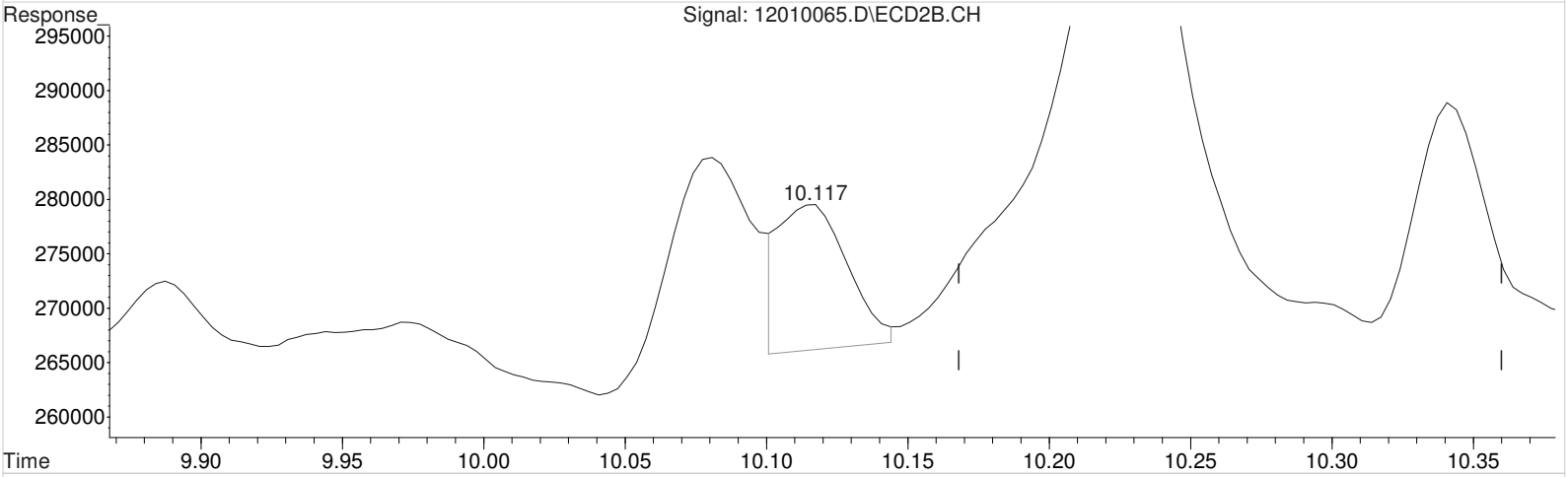
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:06 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 0.086 ppb

response 8101

(8) 2,4,5-TP (Silvex) #2 (m)

10.117min 0.110 ppb

response 22306

Manual Integration:

Before

12/02/20

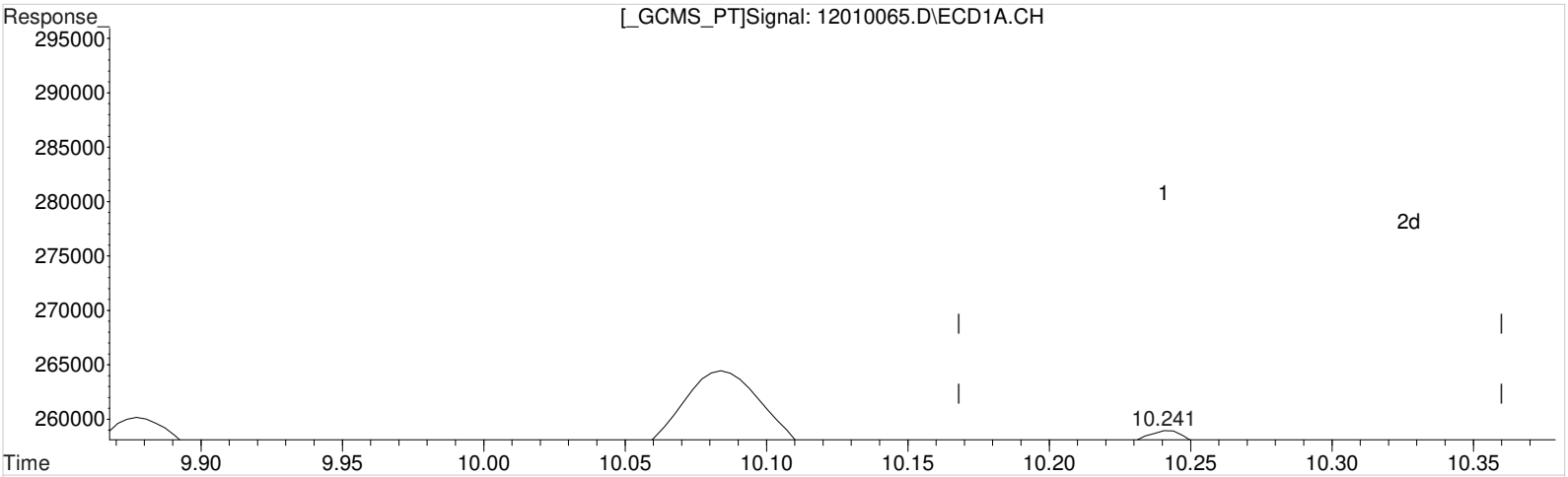
(+) = Expected Retention Time

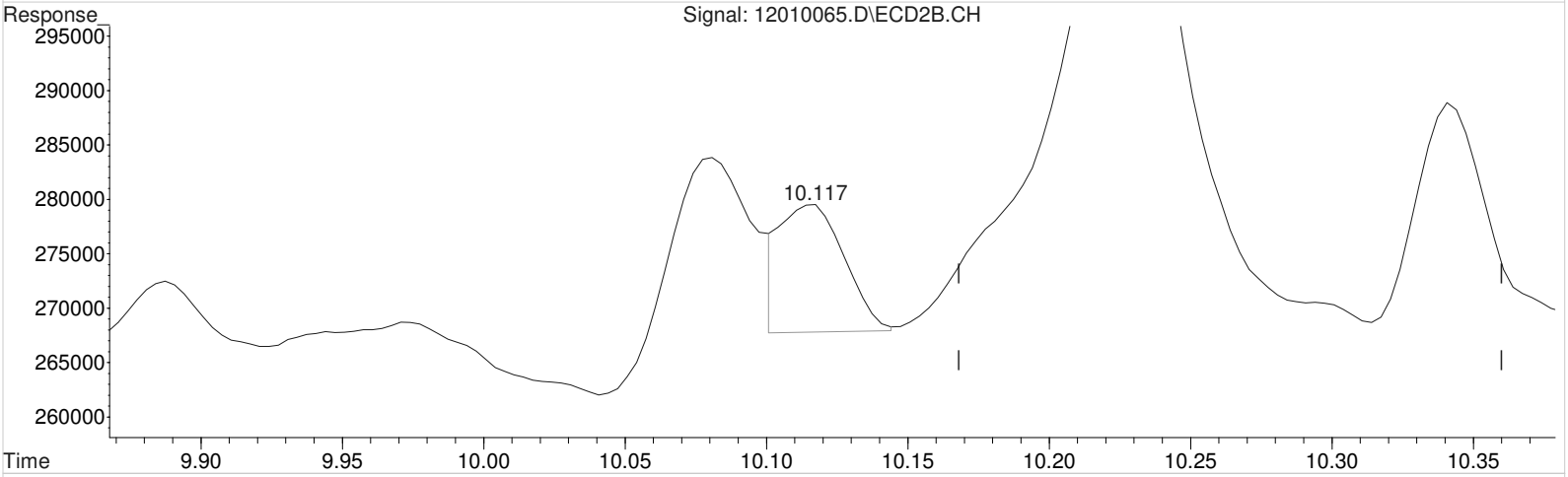
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010065.D Vial: 68
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:46 pm Operator: UA
Sample : K2010456-022 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:06 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 17:31:59 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 0.086 ppb

response 8101

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.117min 0.090 ppb m

response 18360

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010037.D\
Lab ID: K2010456-023
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 07:04:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010037.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 07:04:00	**Vial:**	11
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-023	**Raw Units:**	ppb

Bottle ID:	K2010456-023.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	999022	3779436	54.902	89.353	55	89	55	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	10.13 -0.01	8994	11040	0.096	0.054	0.21U	0.12U	3.2 U	Y
2,4-D	9.29 -0.03	9.04 -0.03	22283	60275	1.049	1.177	2.3U	2.6U	11 U	Y

Prep Amount:	30.044 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	76.40

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

Printed: 12/3/20 17:17
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:35:05 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...	7.987	7.820	999022	3779436	54.902m	89.353m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.290	9.040	22283	60275	1.049	1.177
8) m	2,4,5-TP ...	10.260	10.127	8994	11040	0.096	0.054 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

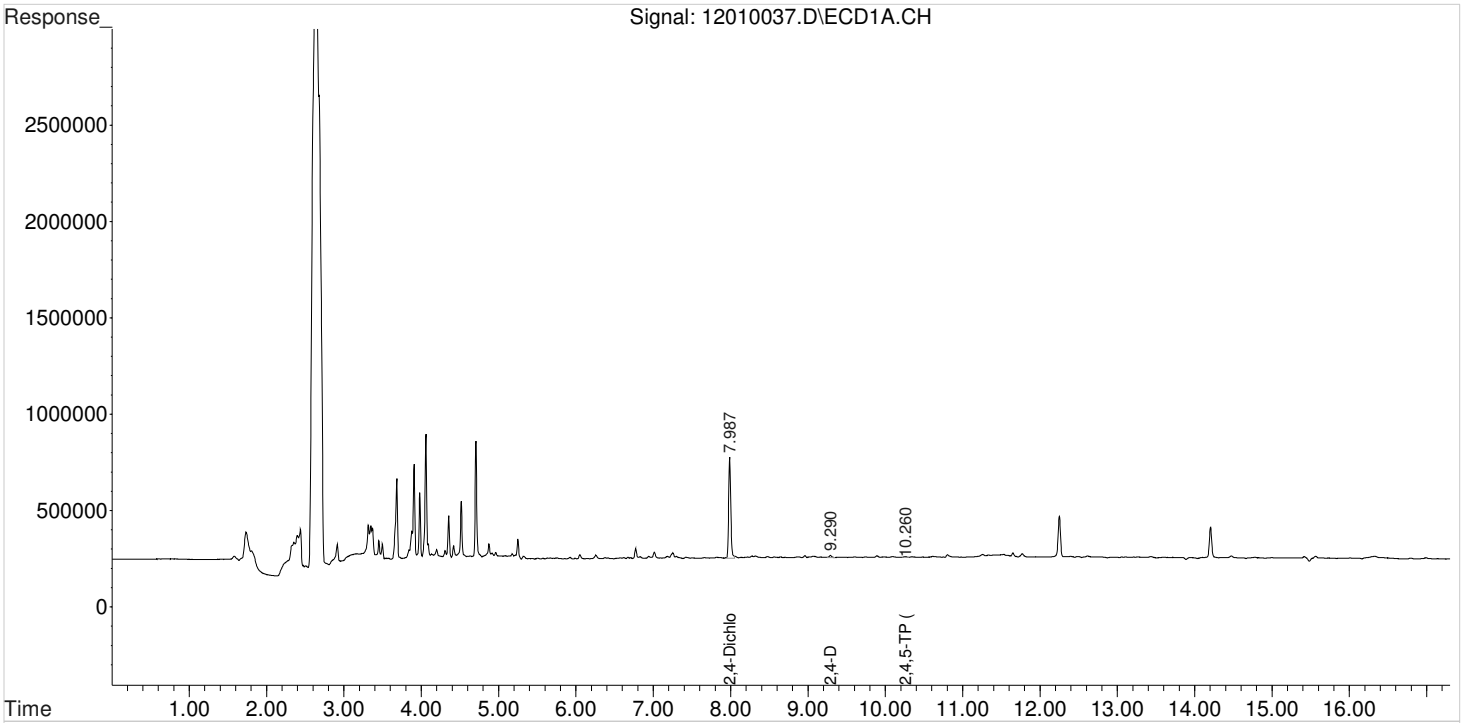
Quantitation Report (QT Reviewed)

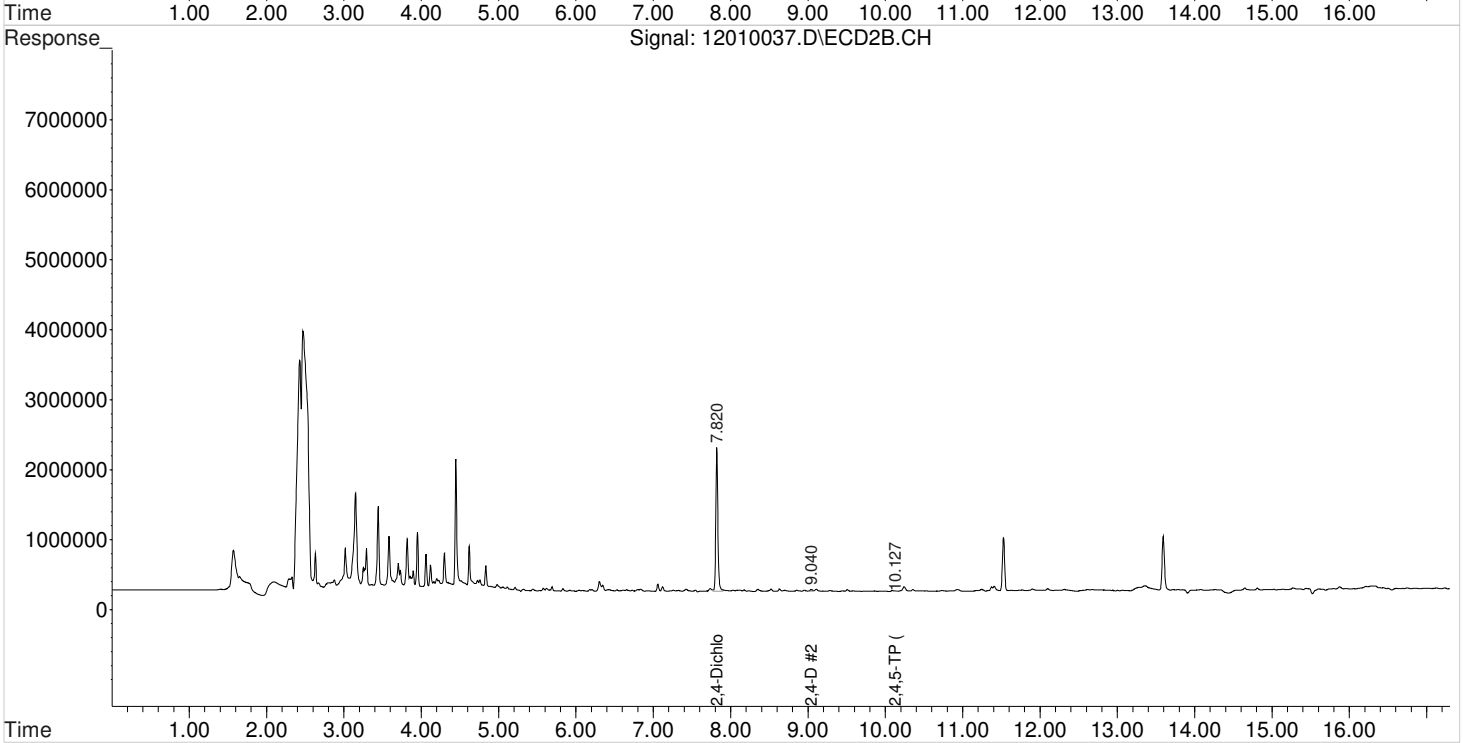
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:35:05 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



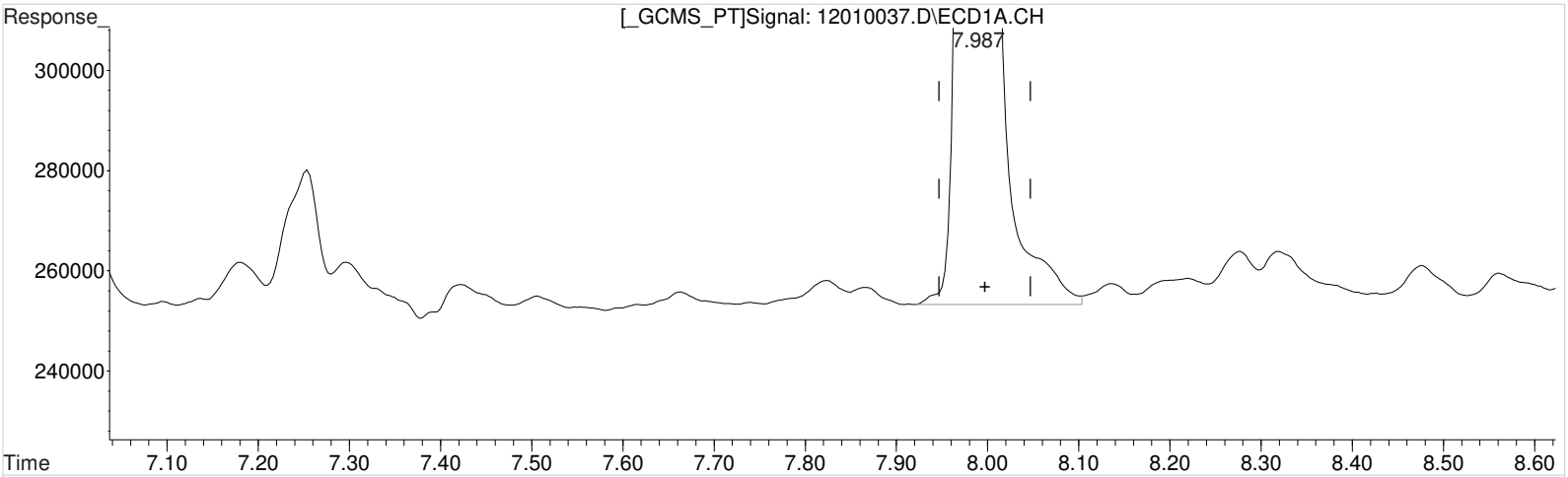


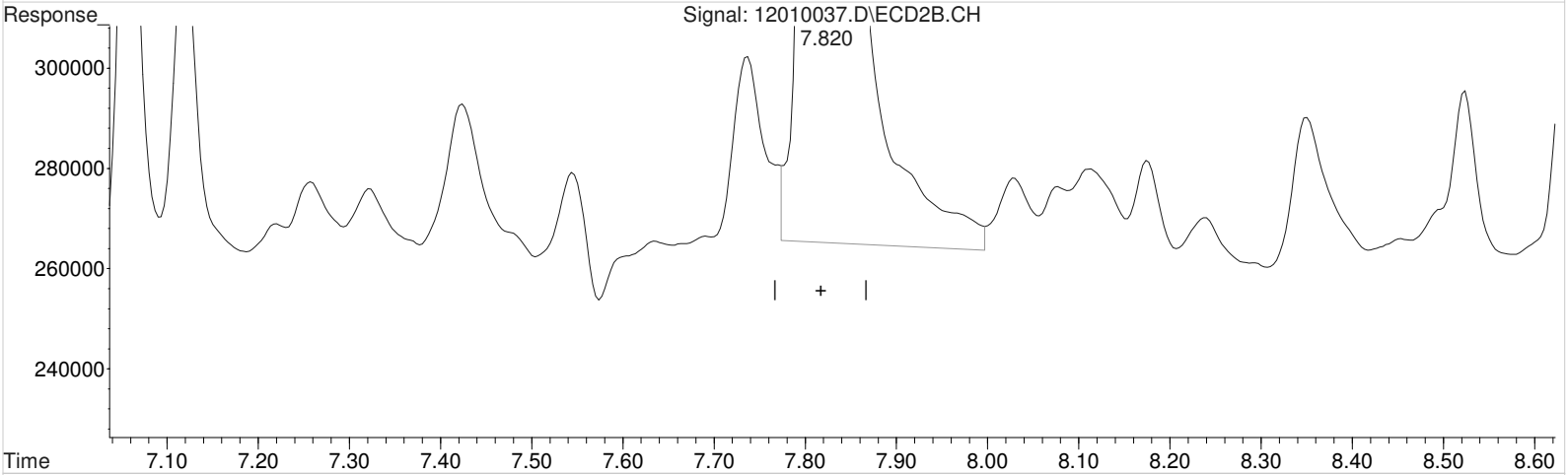
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:13 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





QEdit

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

7.987min 55.975 ppb

response 1018550

Manual Integration:

Before

12/02/20

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

7.820min 90.772 ppb

response 3839482

(+) = Expected Retention Time

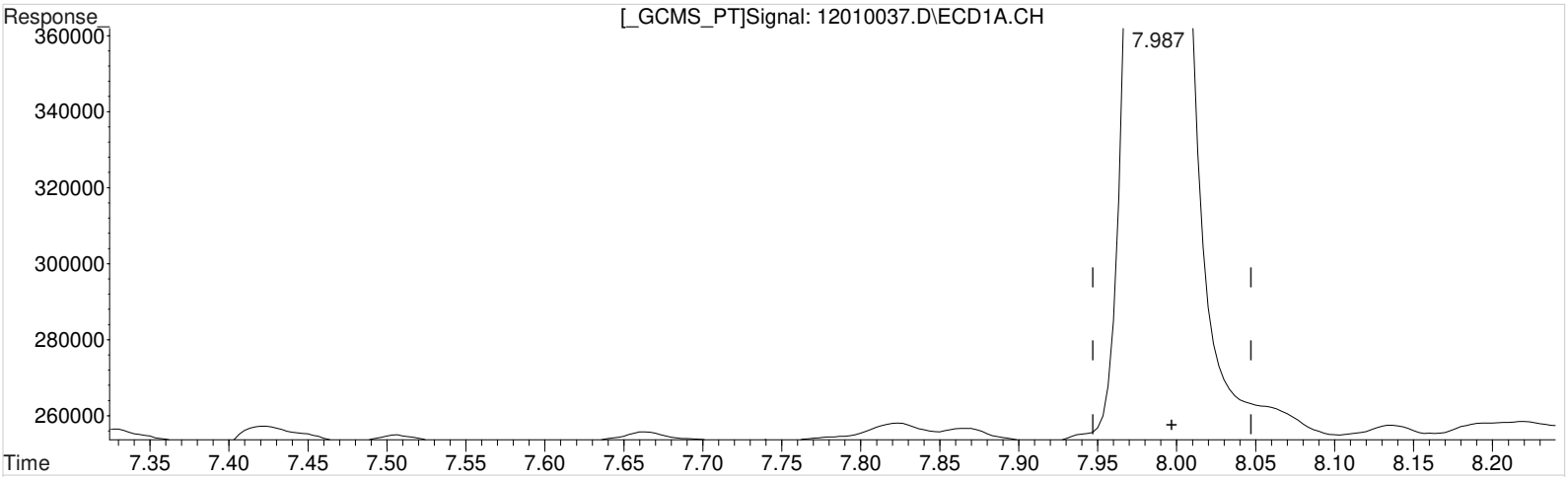
Quantitation Report (Qedit)

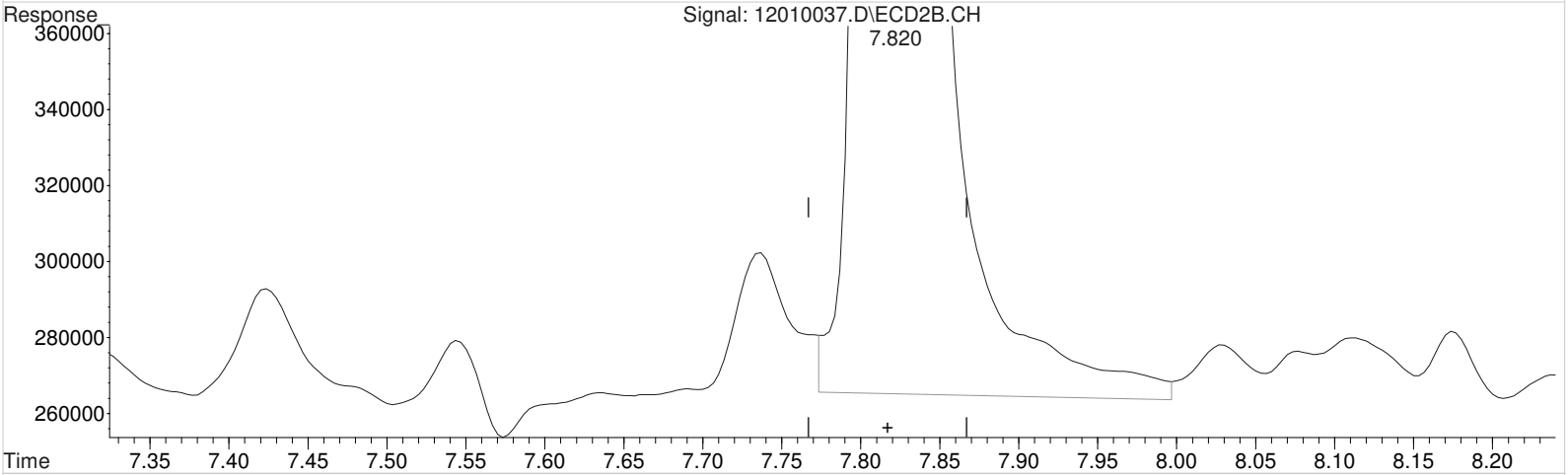
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:13 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





QEdit

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

7.987min 54.902 ppb m

response 999022

Manual Integration:

Before

12/02/20

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

7.820min 90.772 ppb

response 3839482

(+) = Expected Retention Time

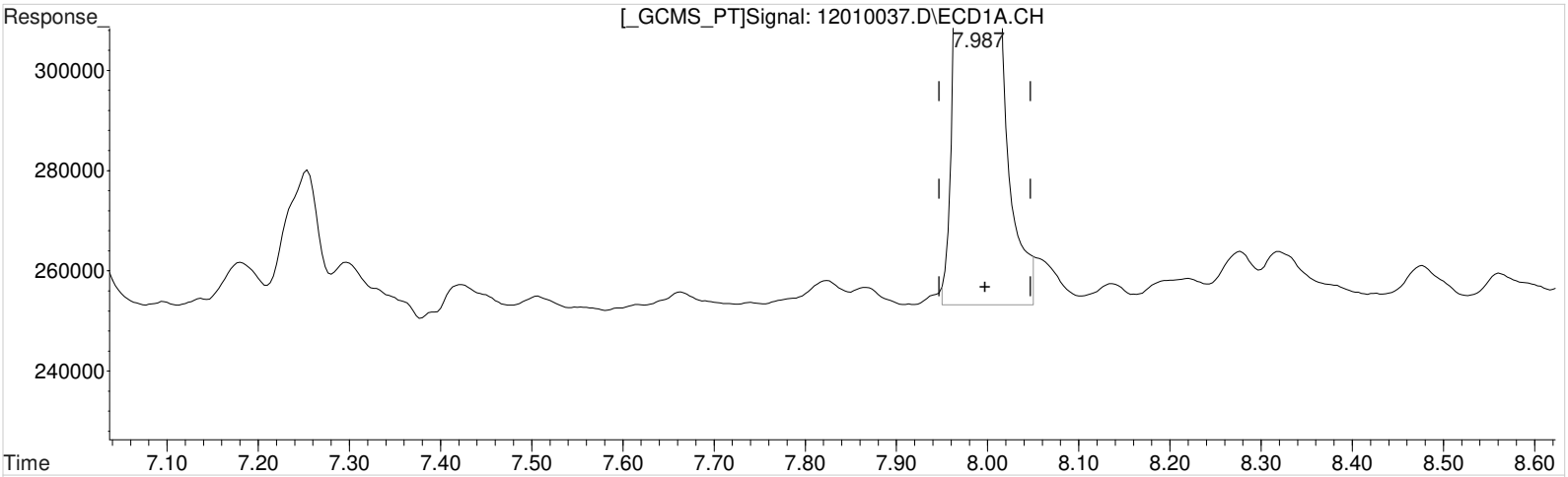
Quantitation Report (Qedit)

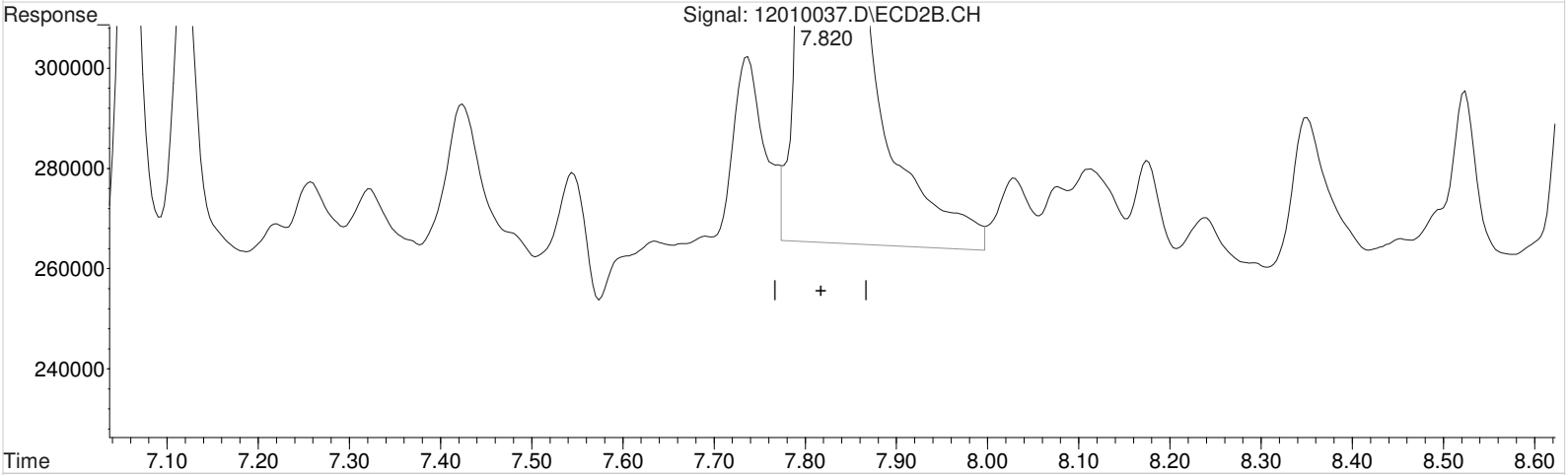
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:13 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





QEdit

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

7.987min 54.902 ppb m

response 999022

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.820min 90.772 ppb

response 3839482

(+) = Expected Retention Time

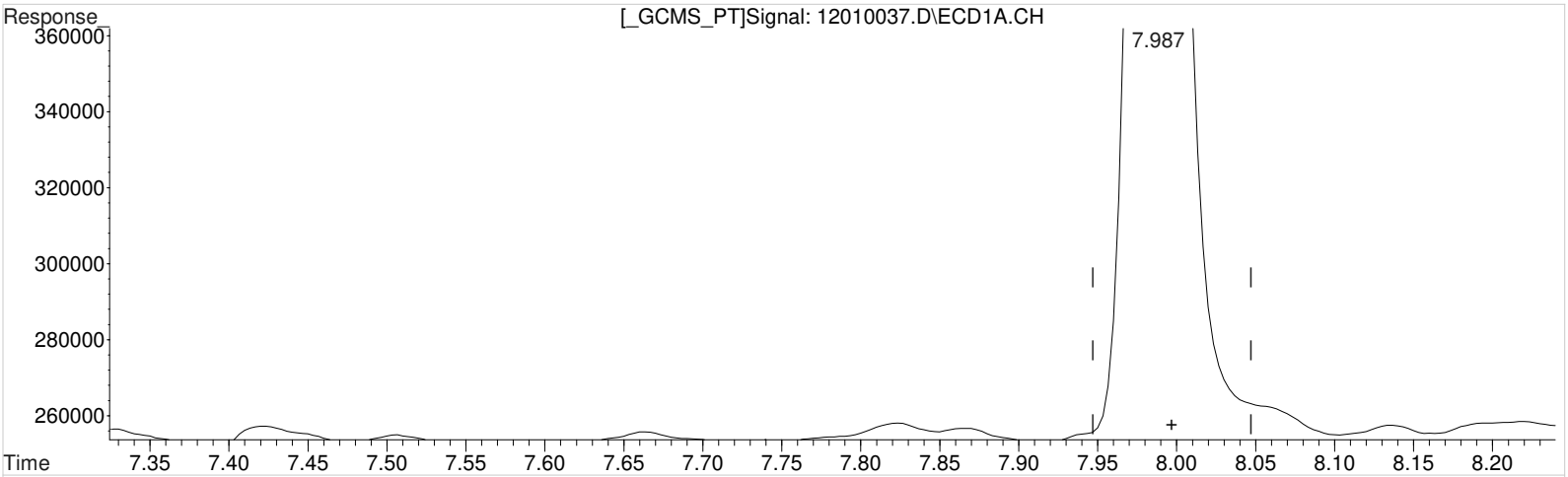
Quantitation Report (Qedit)

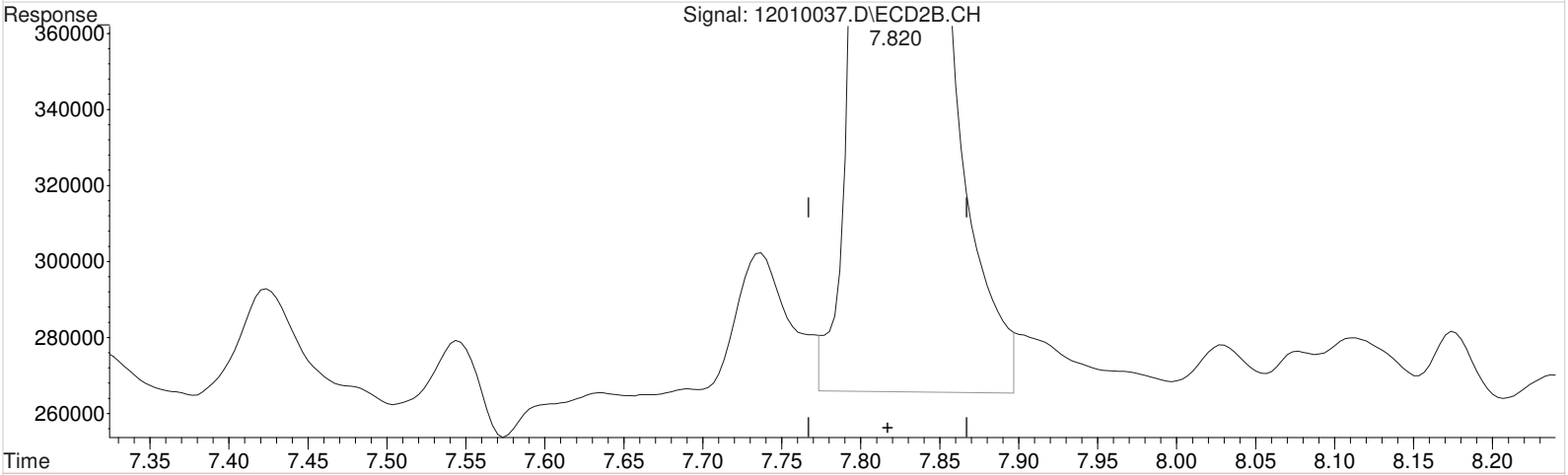
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010037.D Vial: 7
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:04 am Operator: UA
Sample : K2010456-023 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:13 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





QEdit

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

7.987min 54.902 ppb m

response 999022

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.820min 89.353 ppb m

response 3779436

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010038.D\
Lab ID: K2010456-024
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 07:27:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010038.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 07:27:00	**Vial:**	12
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-024	**Raw Units:**	ppb

Bottle ID:	K2010456-024.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	924152	3526435	50.787	83.371	51	83	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	10.09 -0.05	5461	39534	0.058	0.195	0.13U	0.43U	3.2 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	5584	46964	0.263	0.917	0.58U	2.0U	11 U	Y

Prep Amount:	30.238 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	75.20

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:47:24 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	924152	3526435	50.787m	83.371m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.281	9.045	5584	46964	0.263	0.917 #
8) m	2,4,5-TP ...	10.258	10.095	5461	39534	0.058	0.195m#
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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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
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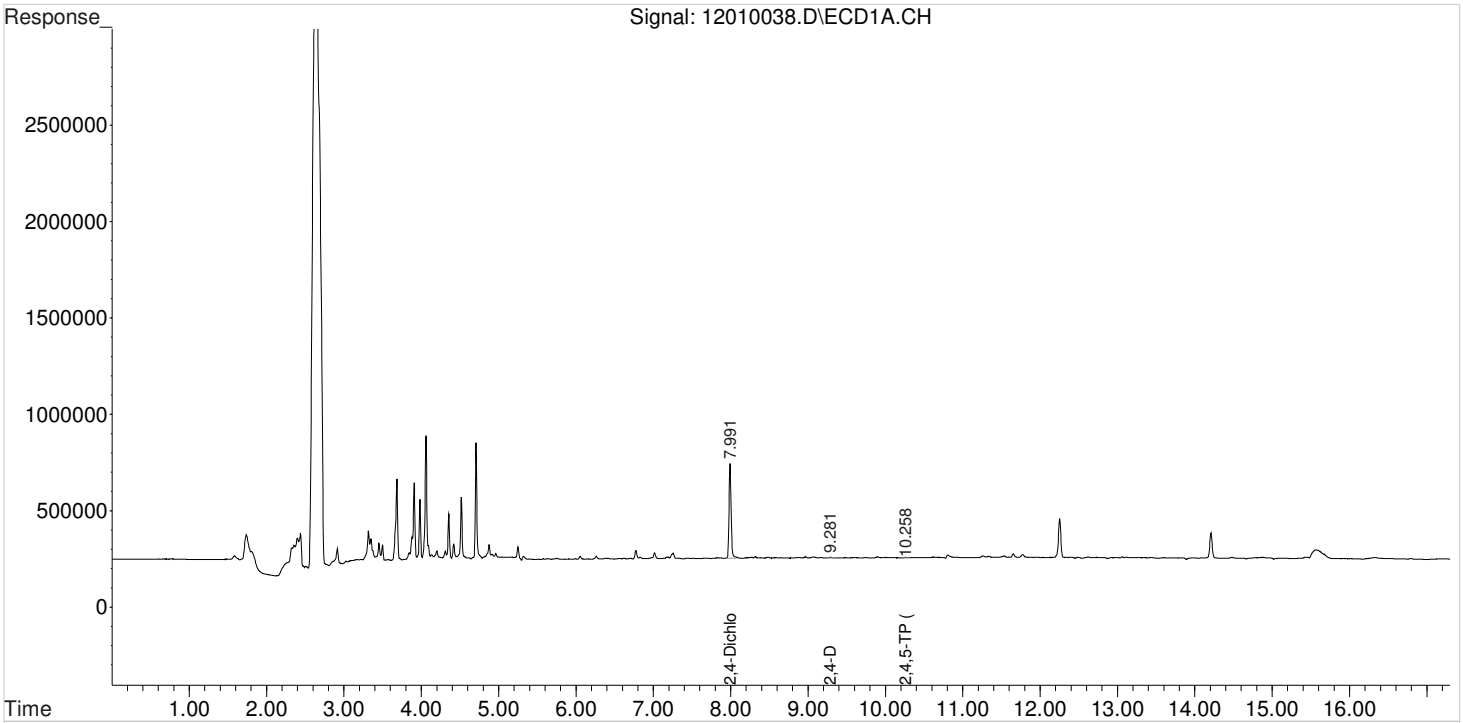
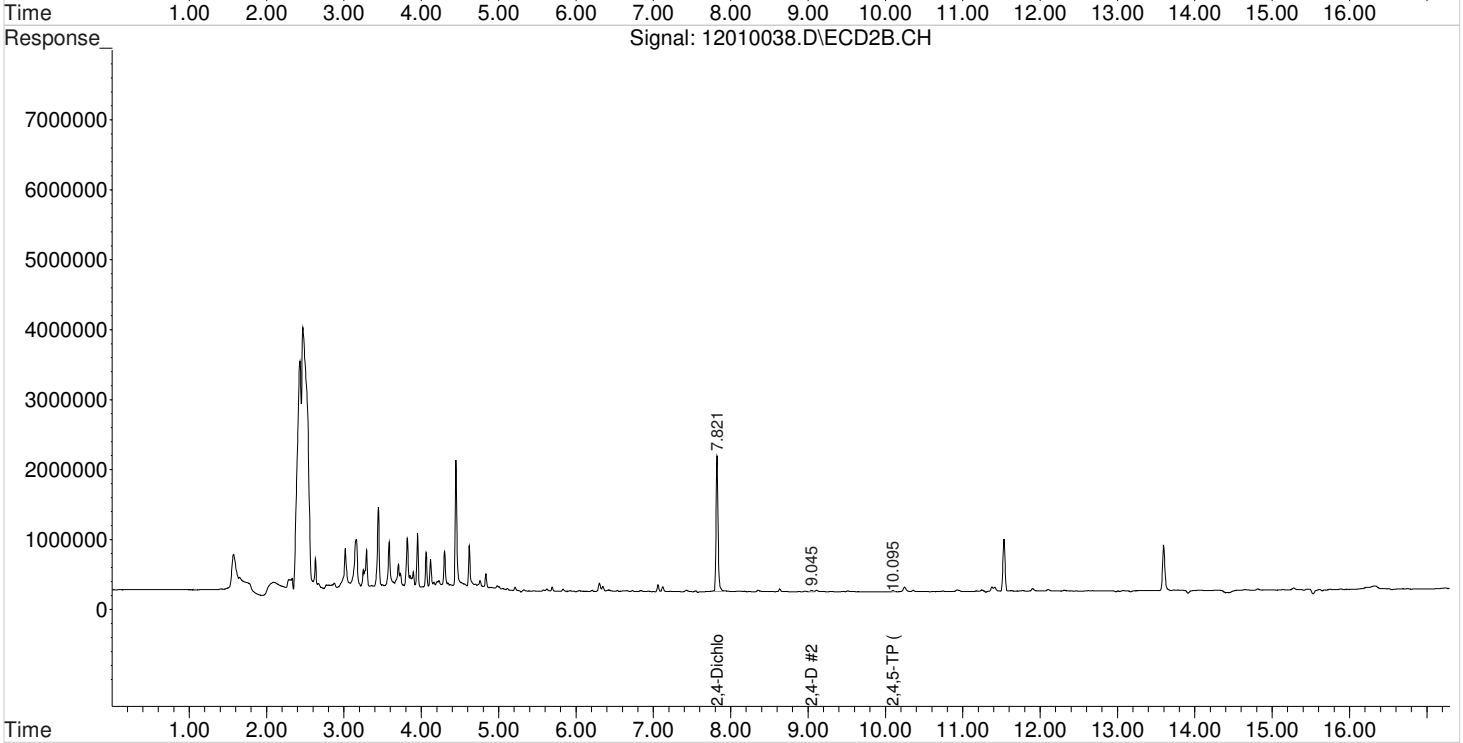
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



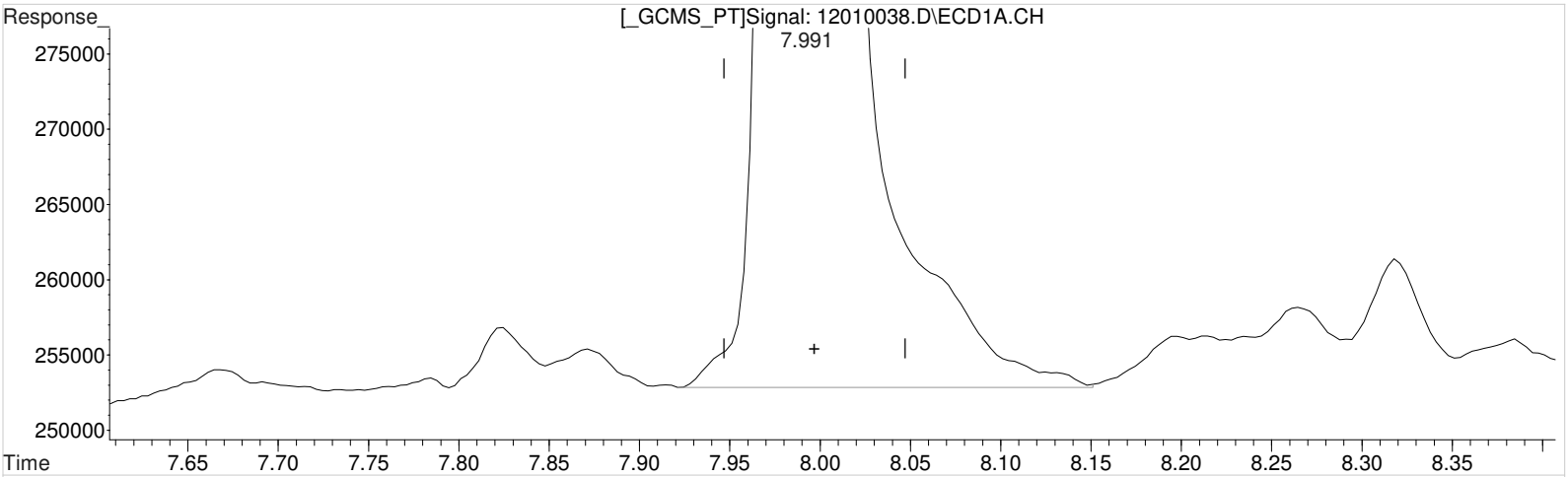


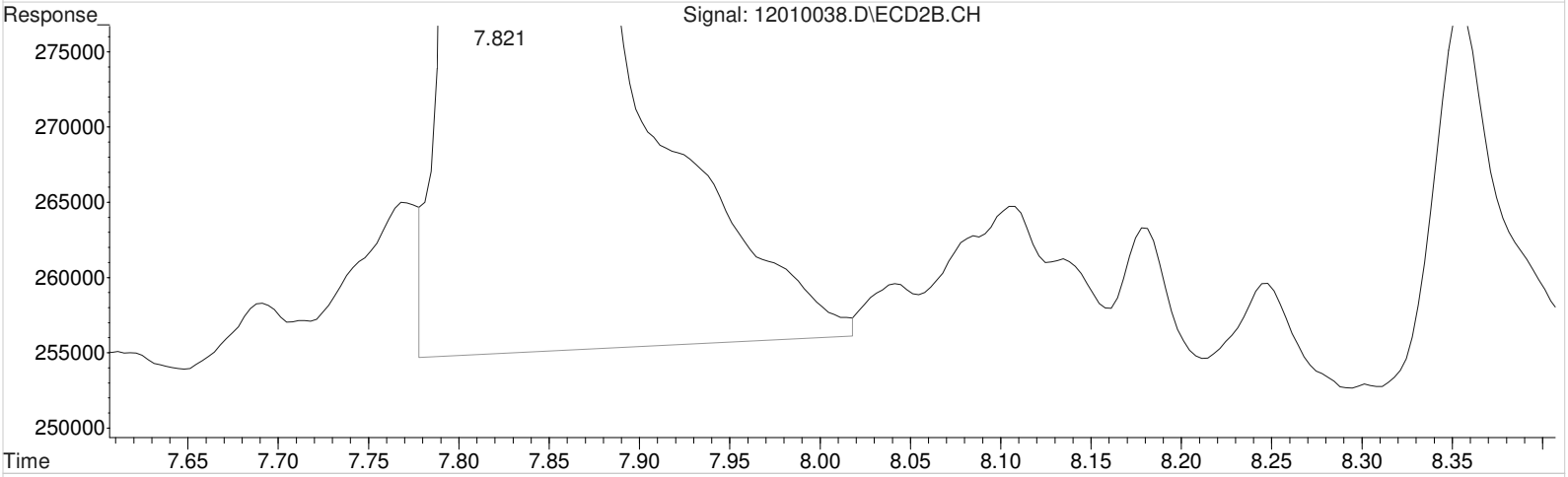
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:16 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





QEdit

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

7.991min 51.654 ppb

response 939931

Manual Integration:

Before

12/02/20

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

7.821min 84.583 ppb

response 3577673

(+) = Expected Retention Time

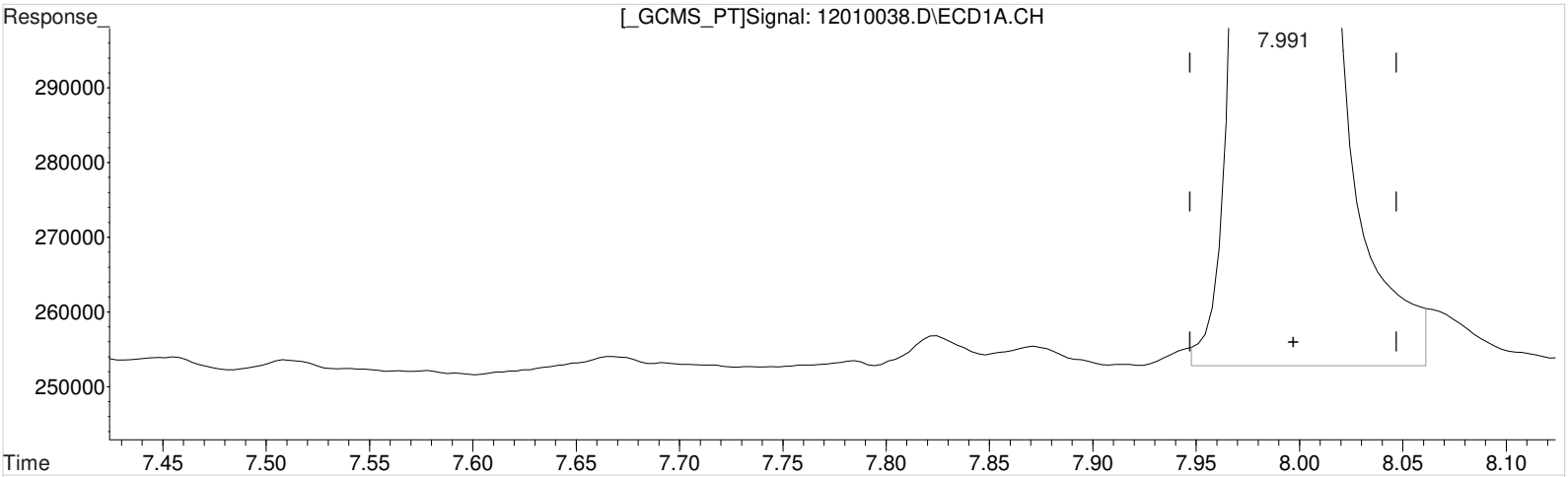
Quantitation Report (Qedit)

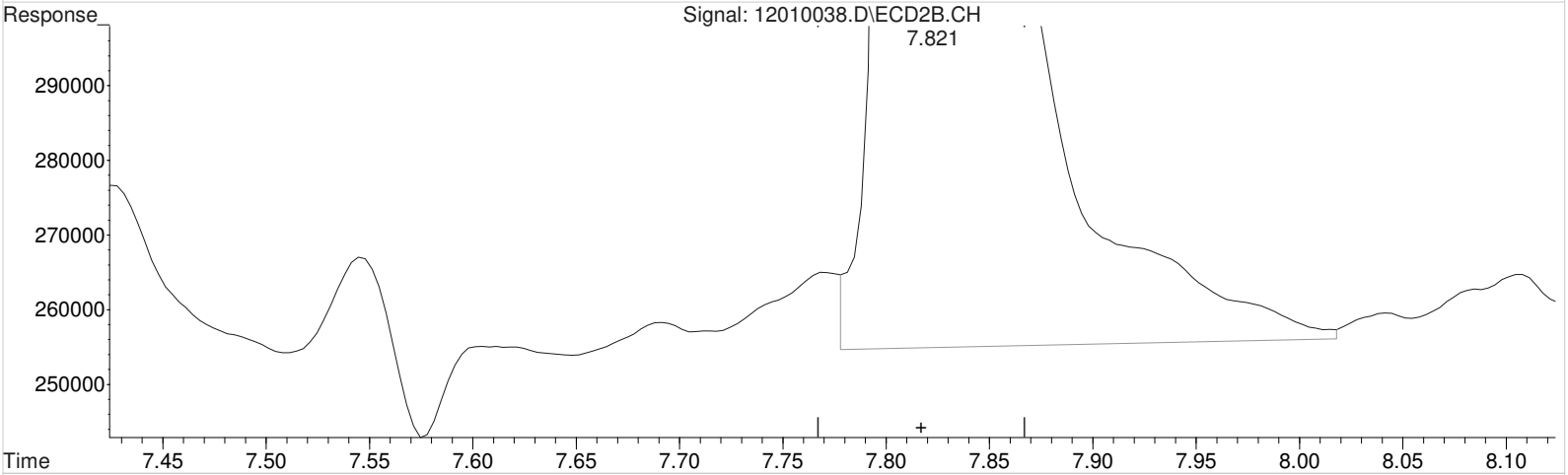
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:16 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





QEdit

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

7.991min 50.787 ppb m

response 924152

Manual Integration:

Before

12/02/20

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

7.821min 84.583 ppb

response 3577673

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
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Quant Method : J:\gc24\Methods\102120_8151.M
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QLast Update : Wed Oct 21 17:31:59 2020
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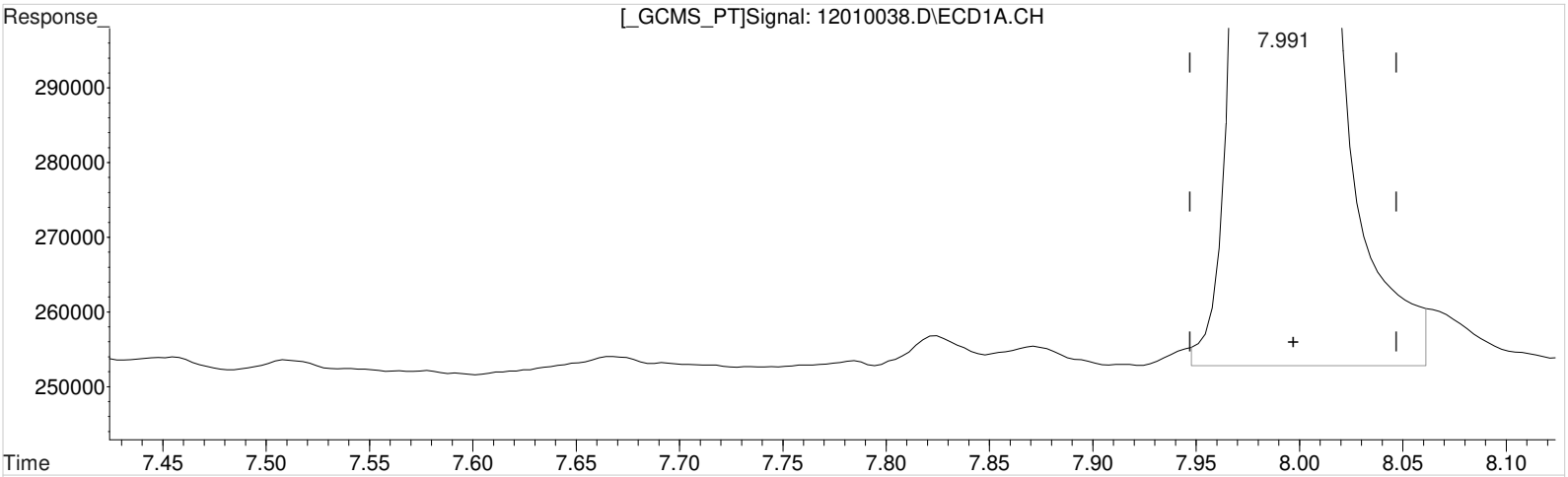
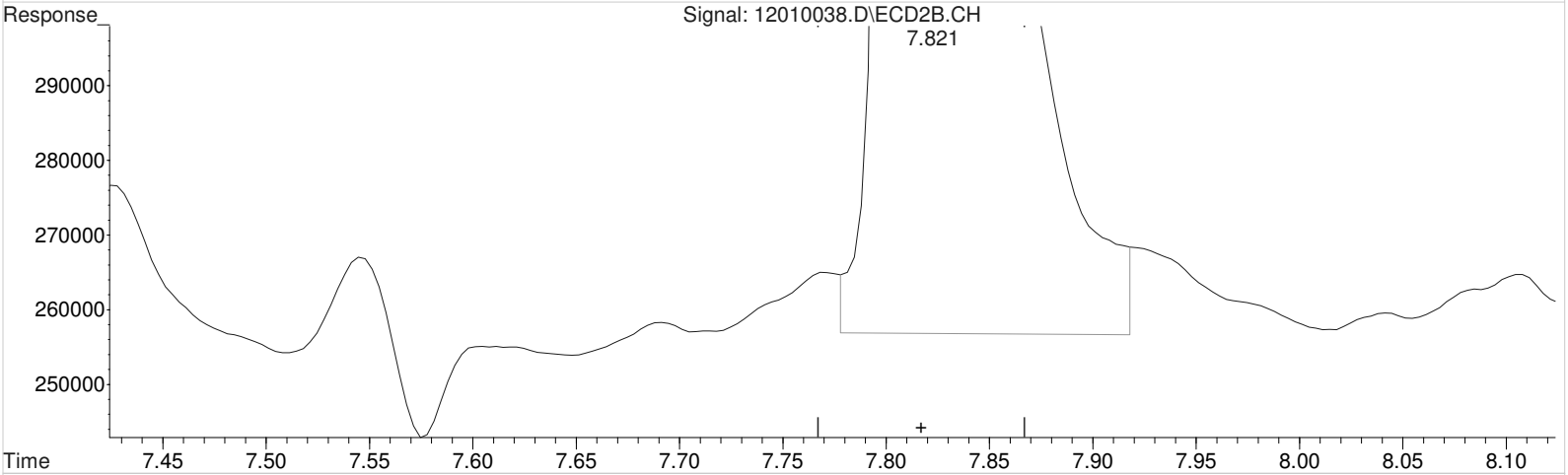
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.991min 50.787 ppb m

response 924152

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.821min 83.371 ppb m

response 3526435

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
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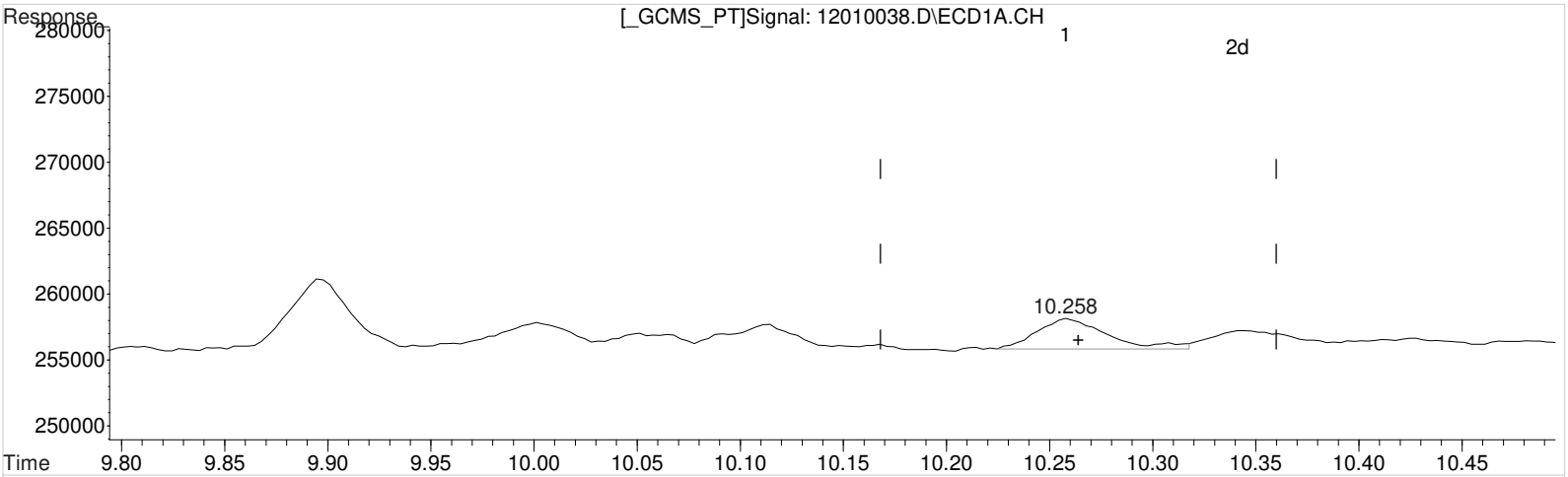
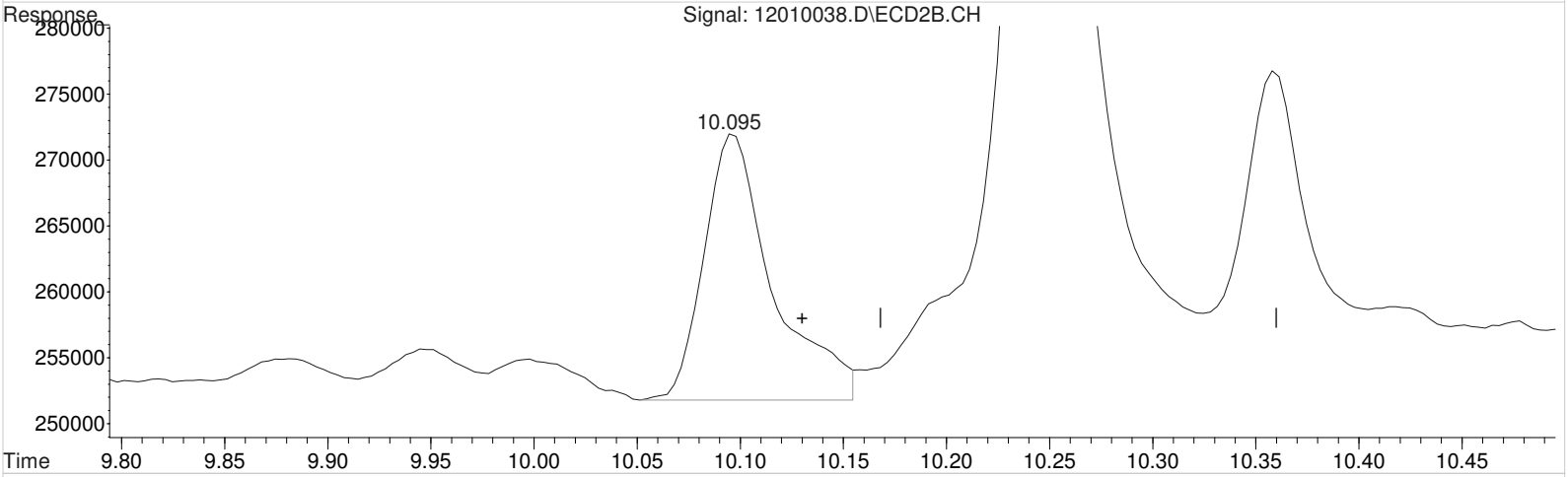
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.258min 0.058 ppb

response 5461

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.095min 0.231 ppb

response 46801

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010038.D Vial: 8
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:27 am Operator: UA
Sample : K2010456-024 Inst : HP G1530A
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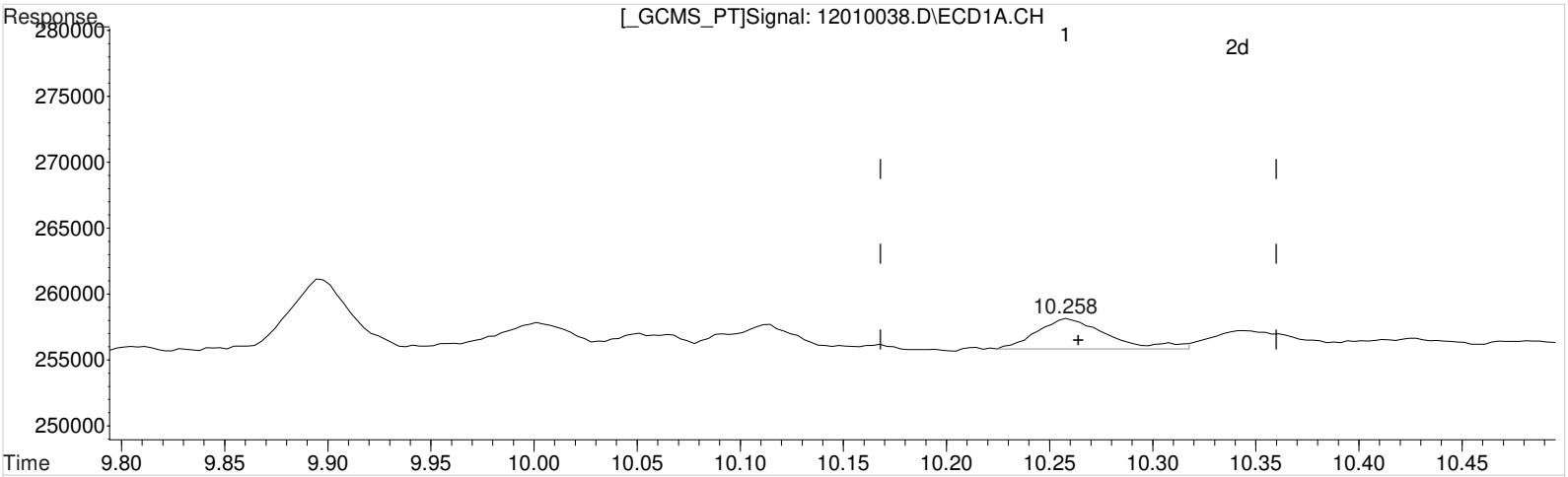
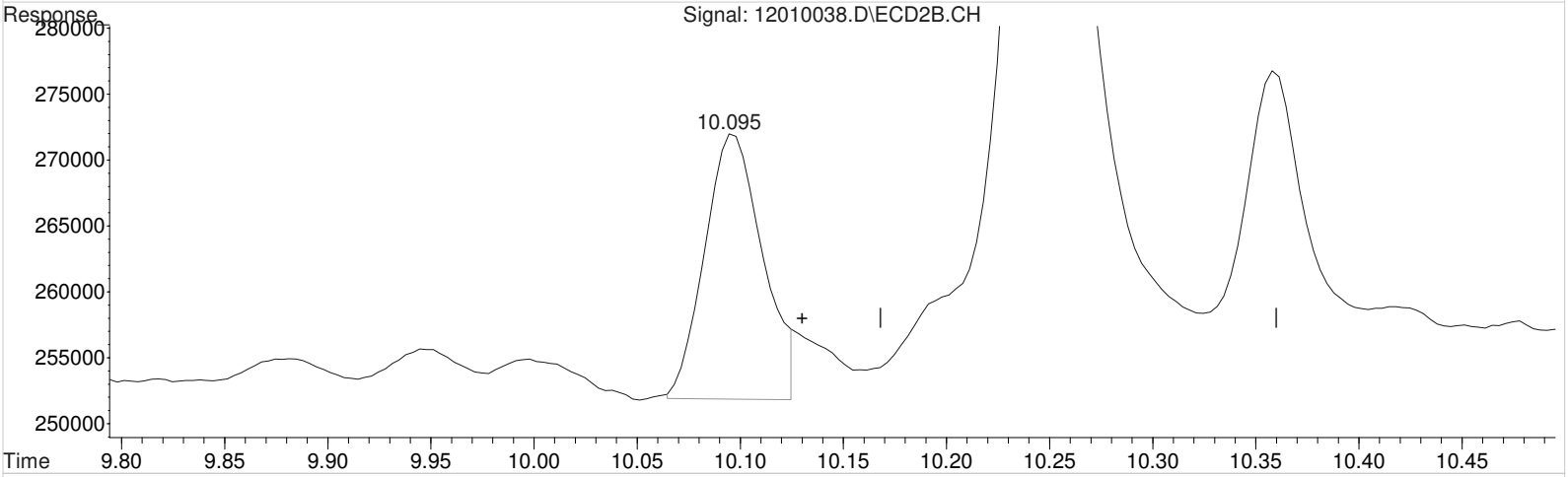
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.258min 0.058 ppb

response 5461

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.095min 0.195 ppb m

response 39534

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010041.D\
Lab ID: K2010456-025
RunType: N/A
Matrix: Sediment

Date Acquired: 12/2/20 08:36:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010041.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 08:36:00	**Vial:**	23
Run Type:	N/A	**Dilution:**	1
Lab ID:	K2010456-025	**Raw Units:**	ppb

Bottle ID:	K2010456-025.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369767	**Report Group:**	K2010456
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	916837	3489203	50.385	82.491	50	82	50	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	10.13 -0.01	8239	22295	0.088	0.110	0.19U	0.24U	3.2 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	6449	63345	0.304	1.237	0.66U	2.7U	11 U	Y

Prep Amount:	30.297 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	75.50

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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 15:03:30 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	7.824	916837	3489203	50.385m	82.491 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.284	9.044	6449	63345	0.304	1.237 #
8)	m	2,4,5-TP ...	10.260	10.134	8239	22295	0.088	0.110m
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

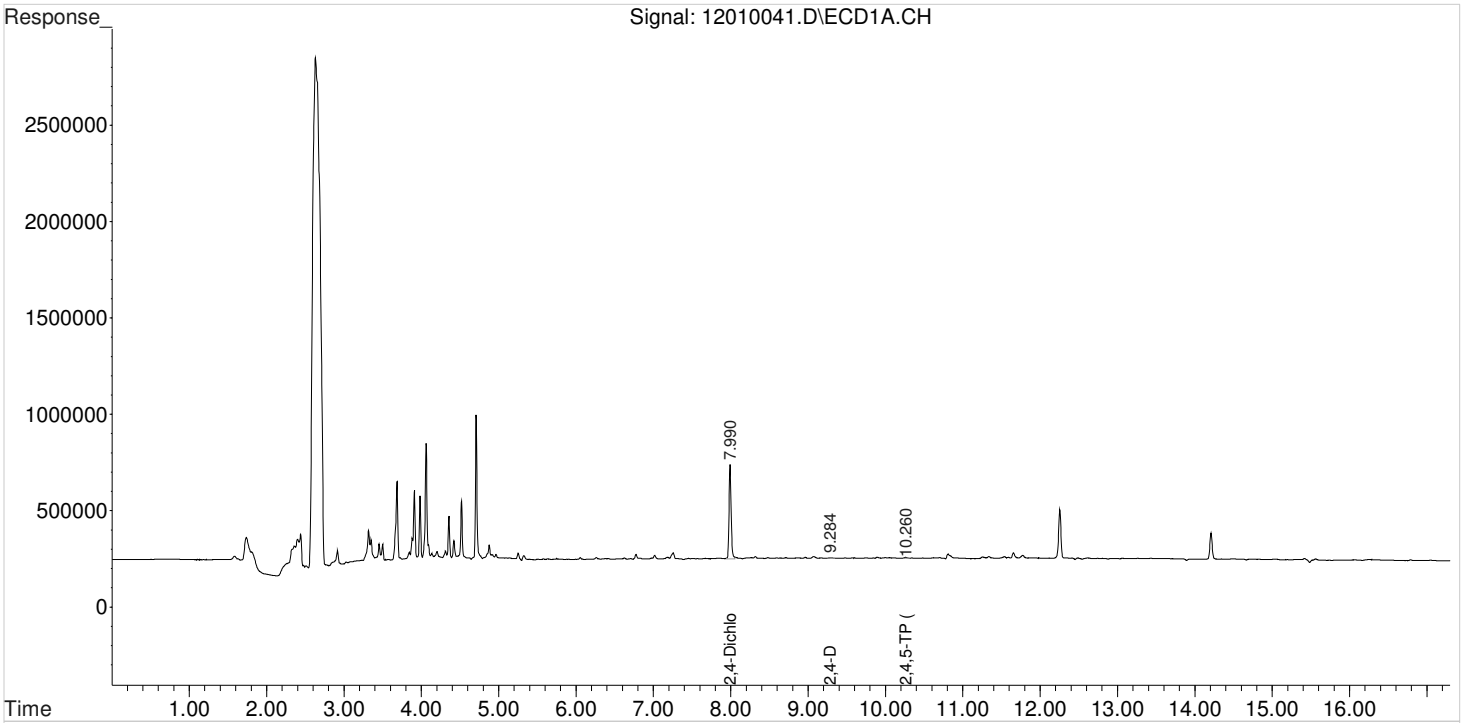
Quantitation Report (QT Reviewed)

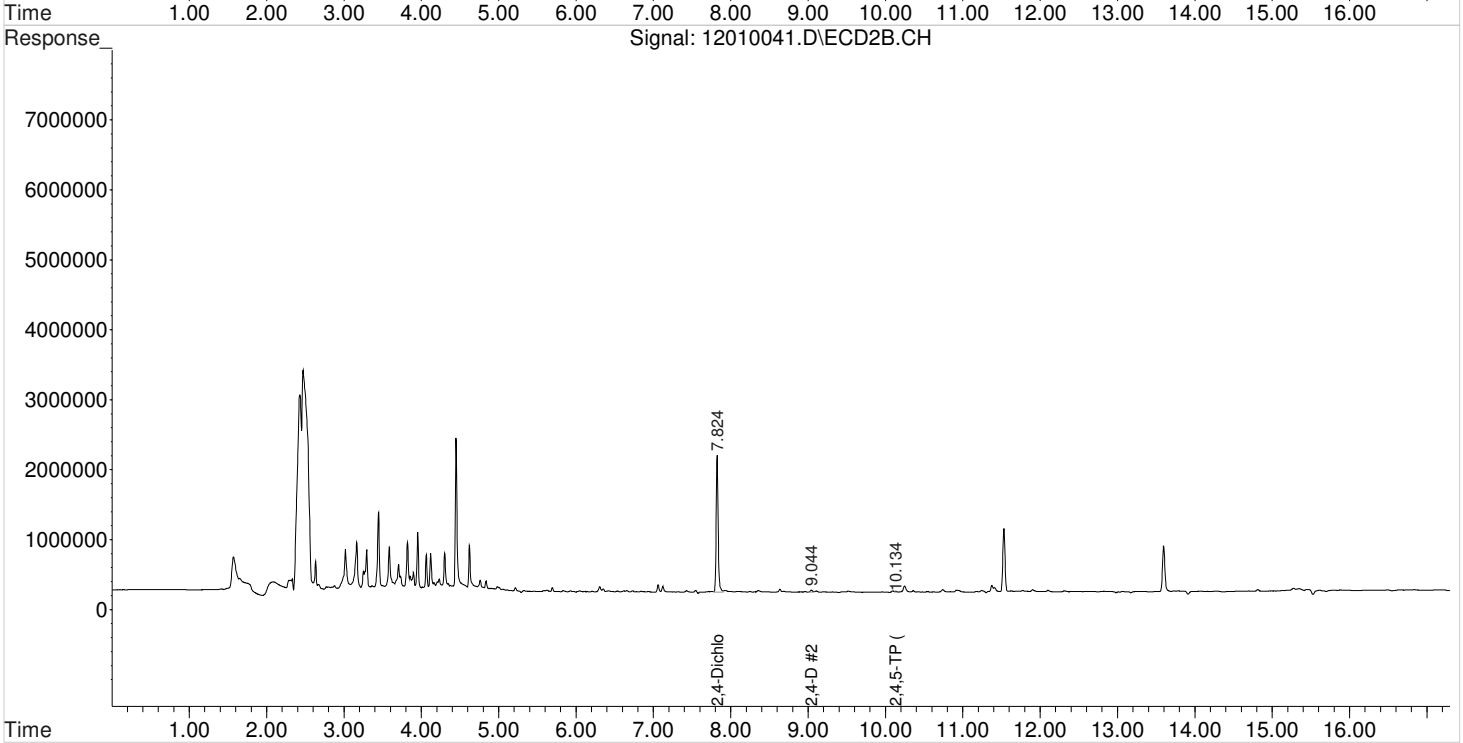
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 15:03:30 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





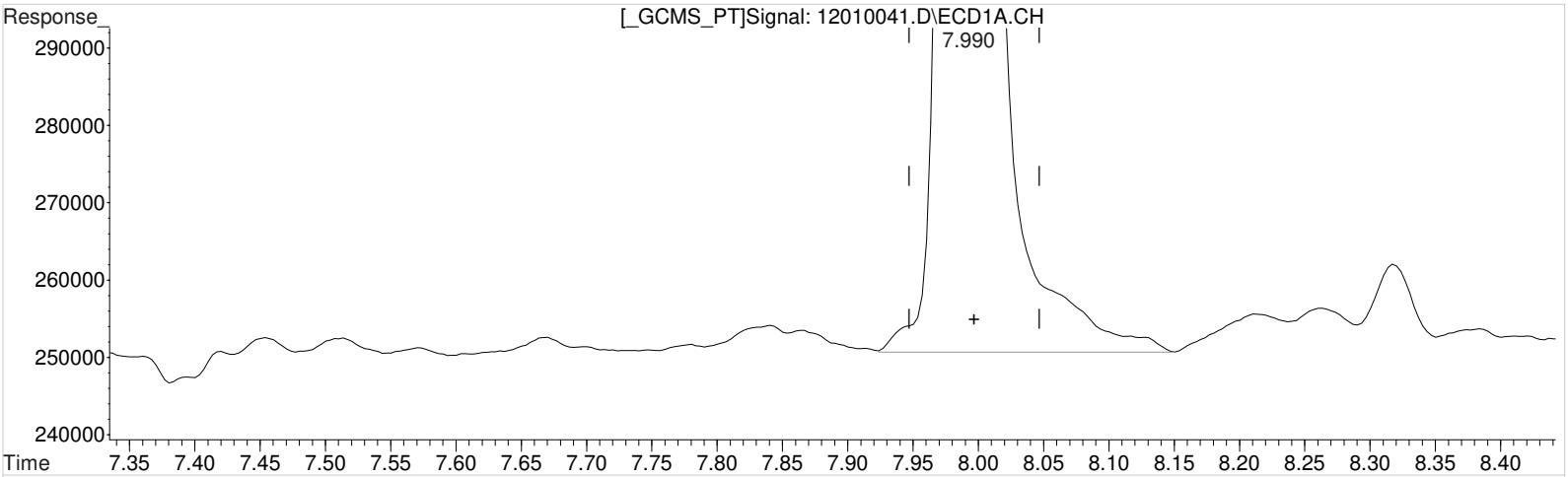
Quantitation Report (Qedit)

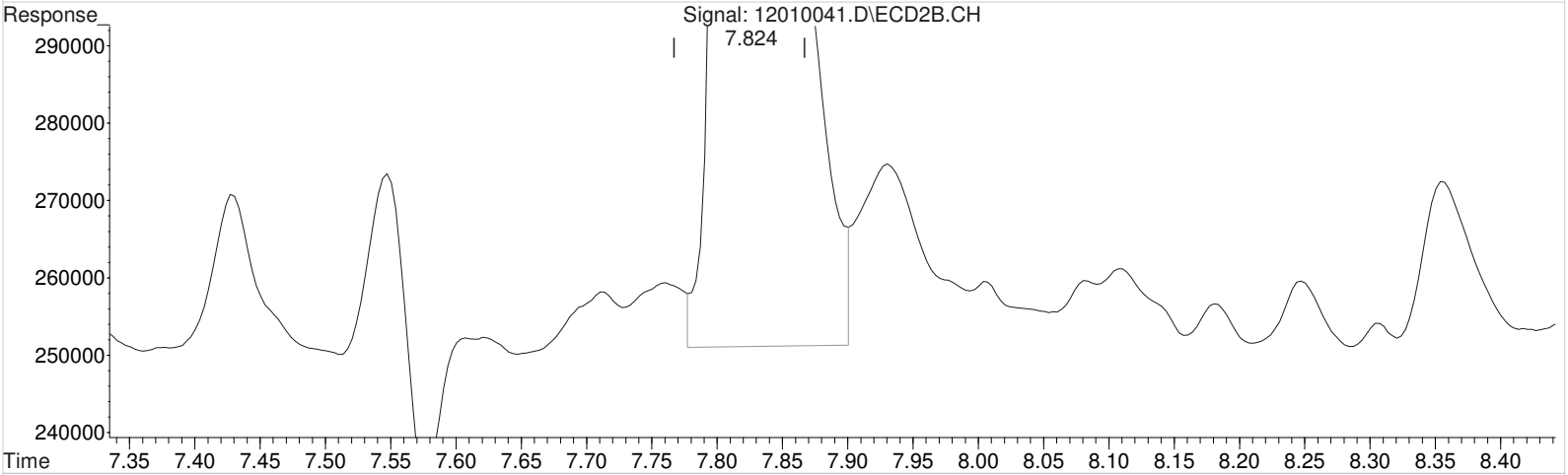
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:07 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





QEdit

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

7.990min 51.664 ppb

response 940108

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

7.824min 82.491 ppb

response 3489203

Manual Integration:

Before

12/02/20

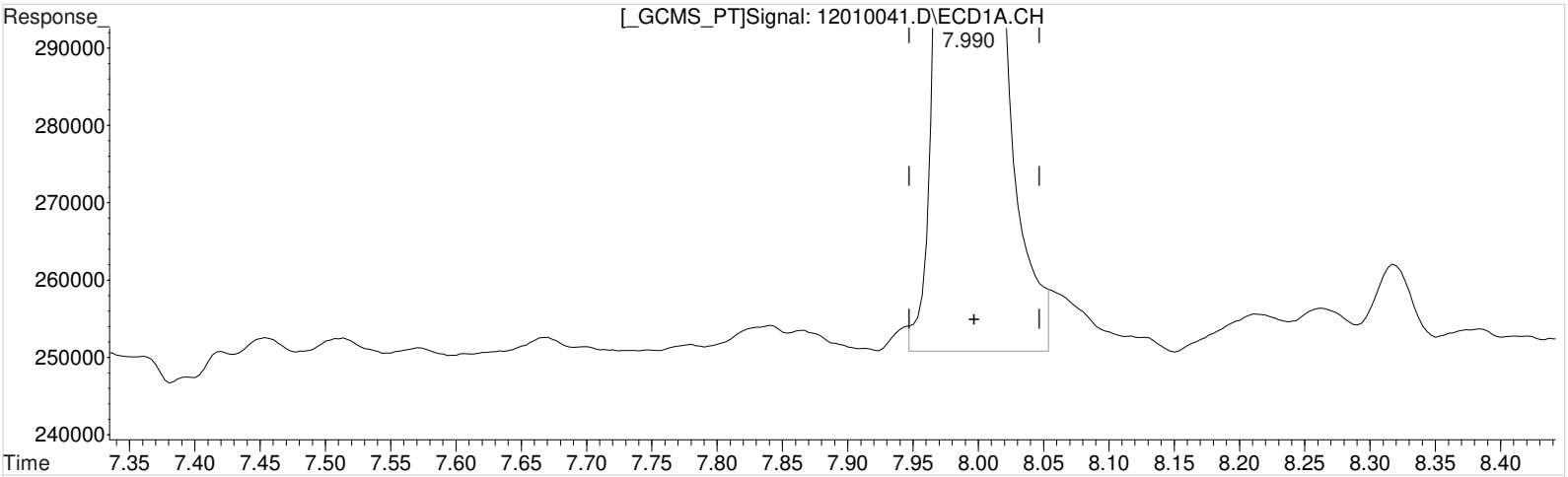
(+) = Expected Retention Time

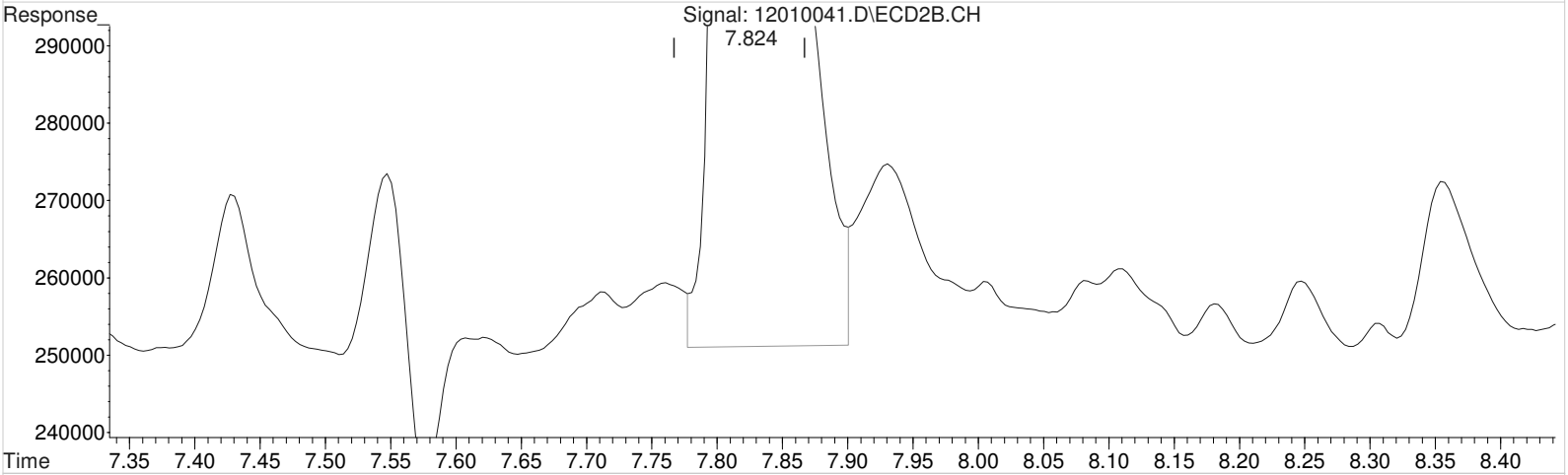
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:07 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





QEdit

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

7.990min 50.385 ppb m

response 916837

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.824min 82.491 ppb

response 3489203

(+) = Expected Retention Time

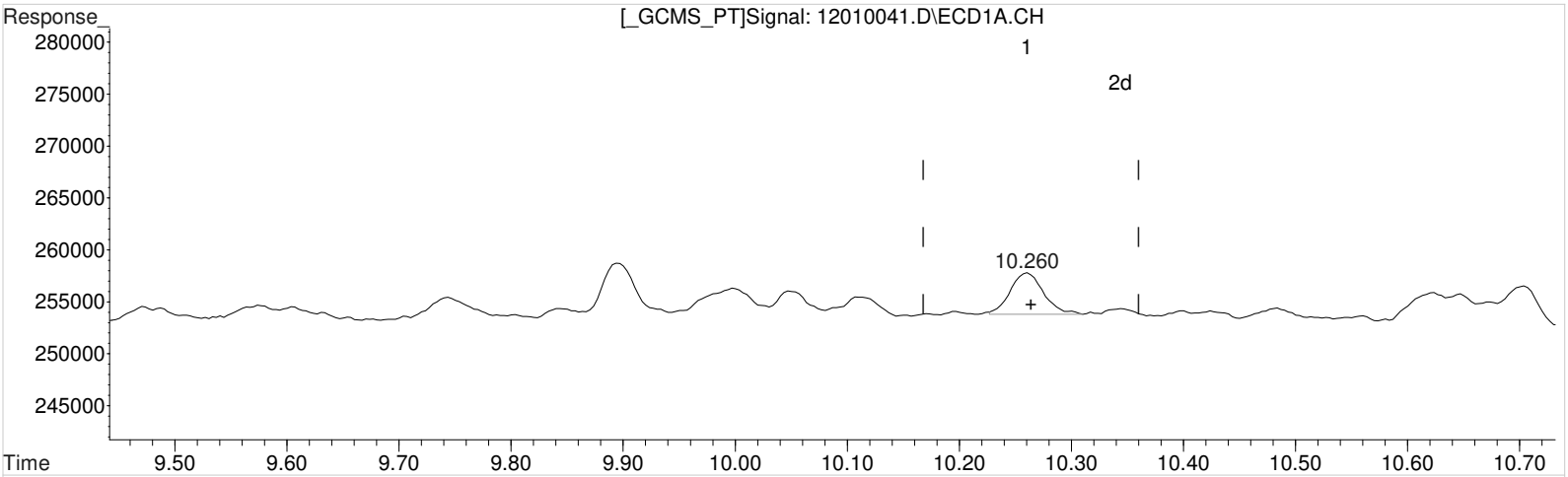
Quantitation Report (Qedit)

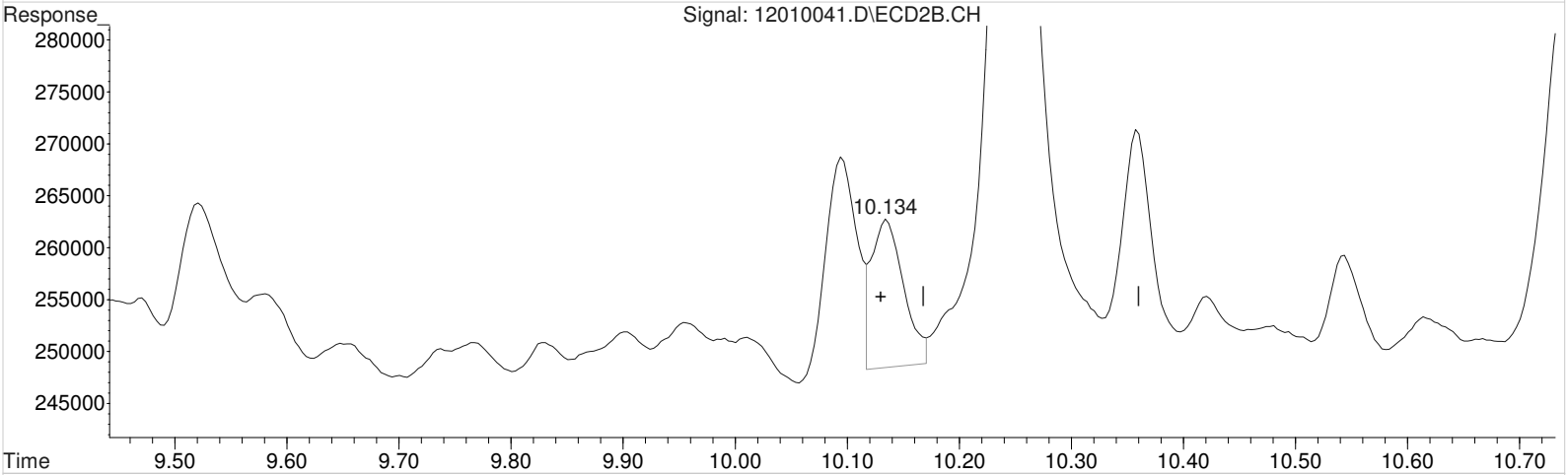
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:07 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.260min 0.088 ppb

response 8239

(8) 2,4,5-TP (Silvex) #2 (m)

10.134min 0.137 ppb

response 27835

Manual Integration:

Before

12/02/20

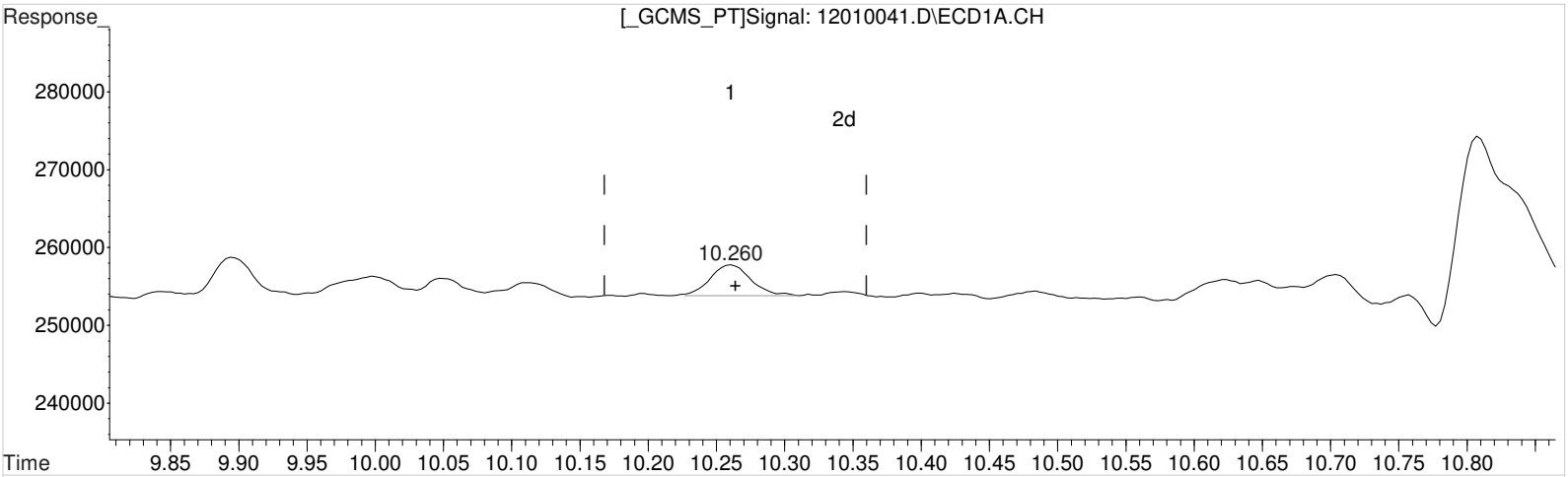
(+) = Expected Retention Time

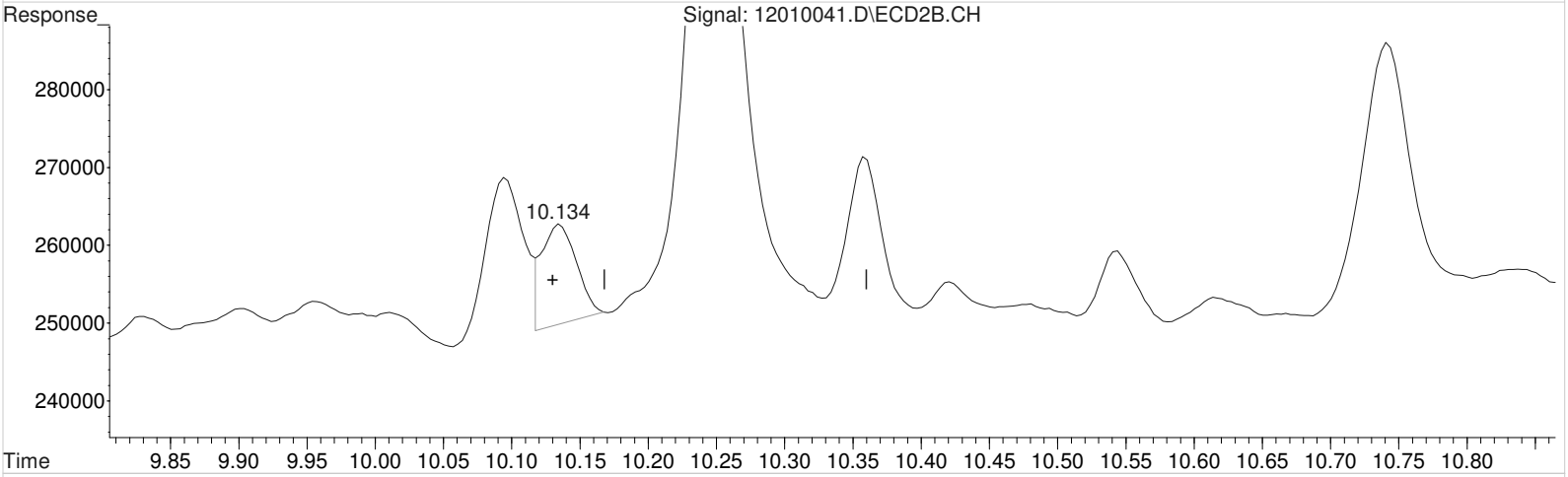
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010041.D Vial: 9
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:36 am Operator: UA
Sample : K2010456-025 Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:07 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.260min 0.088 ppb

response 8239

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.134min 0.110 ppb m

response 22295

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010033.D\
Lab ID: KQ2017965-04
RunType: MB
Matrix: Sediment

Date Acquired: 12/2/20 05:33:00
Batch ID: 705487
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: _____

Printed: 12/3/20 17:17
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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010033.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 05:33:00	**Vial:**	14
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2017965-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	KQ2017965
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	943432	3400160	51.847	80.386	52	80	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	10.26	10.14	7339	6264	0.078	0.031	0.13U	0.051U	2.4 U	Y
2,4-D	9.27 -0.05	9.04 -0.03	3075	28512	0.145	0.557	0.24U	0.92U	7.7 U	Y

Prep Amount:	30.2970 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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1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010033.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 05:33:00	**Vial:**	14
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2017965-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	KQ2017965
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

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?
2,4-Dichlorophenylacetic Acid	7.99	7.82	943432	3400160	51.847	80.386	52	80	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-T	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.14	7339	6264	0.078	0.031	0.13U	0.051U	2.4 U	Y
2,4-D	9.27 -0.05	9.04 -0.03	3075	28512	0.145	0.557	0.24U	0.92U	7.7 U	Y
2,4-DB	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	460 U	Y

Prep Amount:	30.2970 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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:13:08 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	7.825	943432	3400160	51.847m	80.386 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.274f	9.041	3075	28512	0.145	0.557 #
8)	m	2,4,5-TP ...	10.261	10.138	7339	6264	0.078	0.031m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

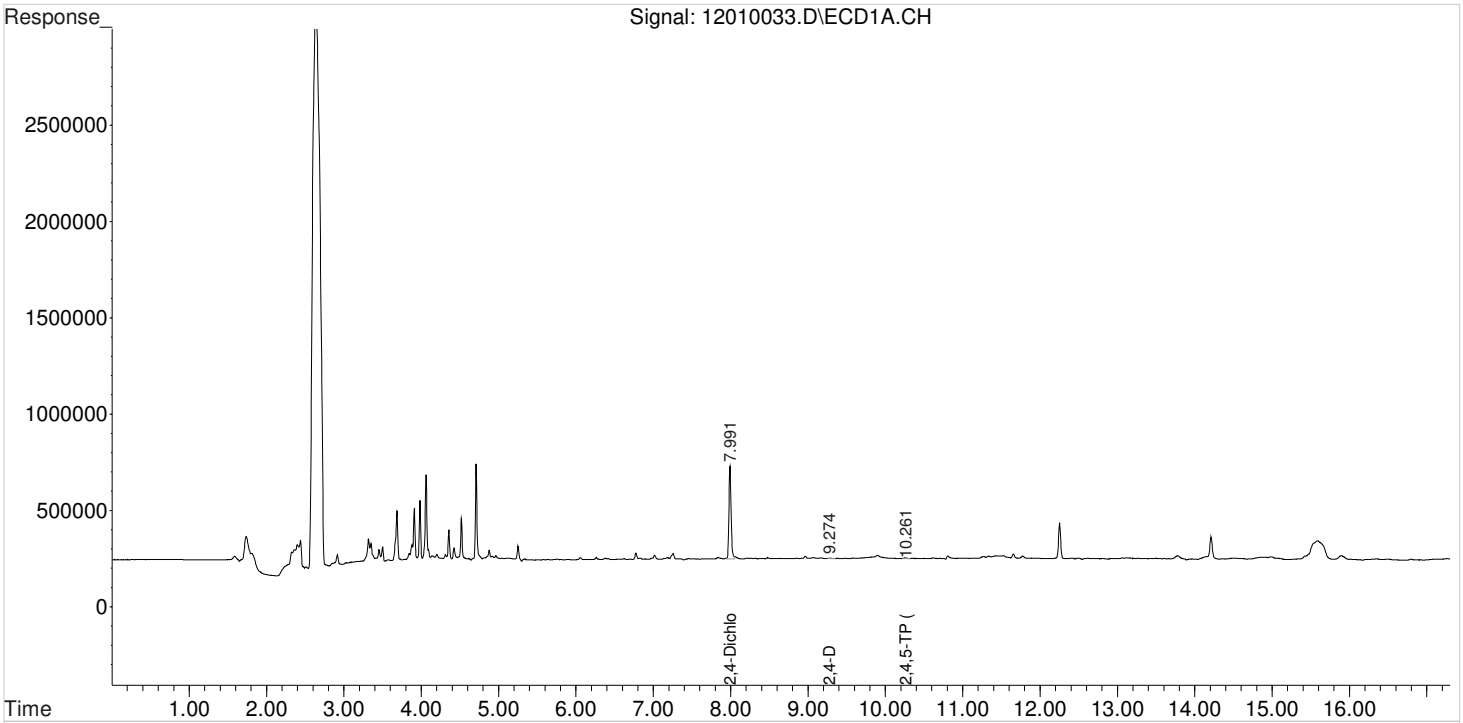
Quantitation Report (QT Reviewed)

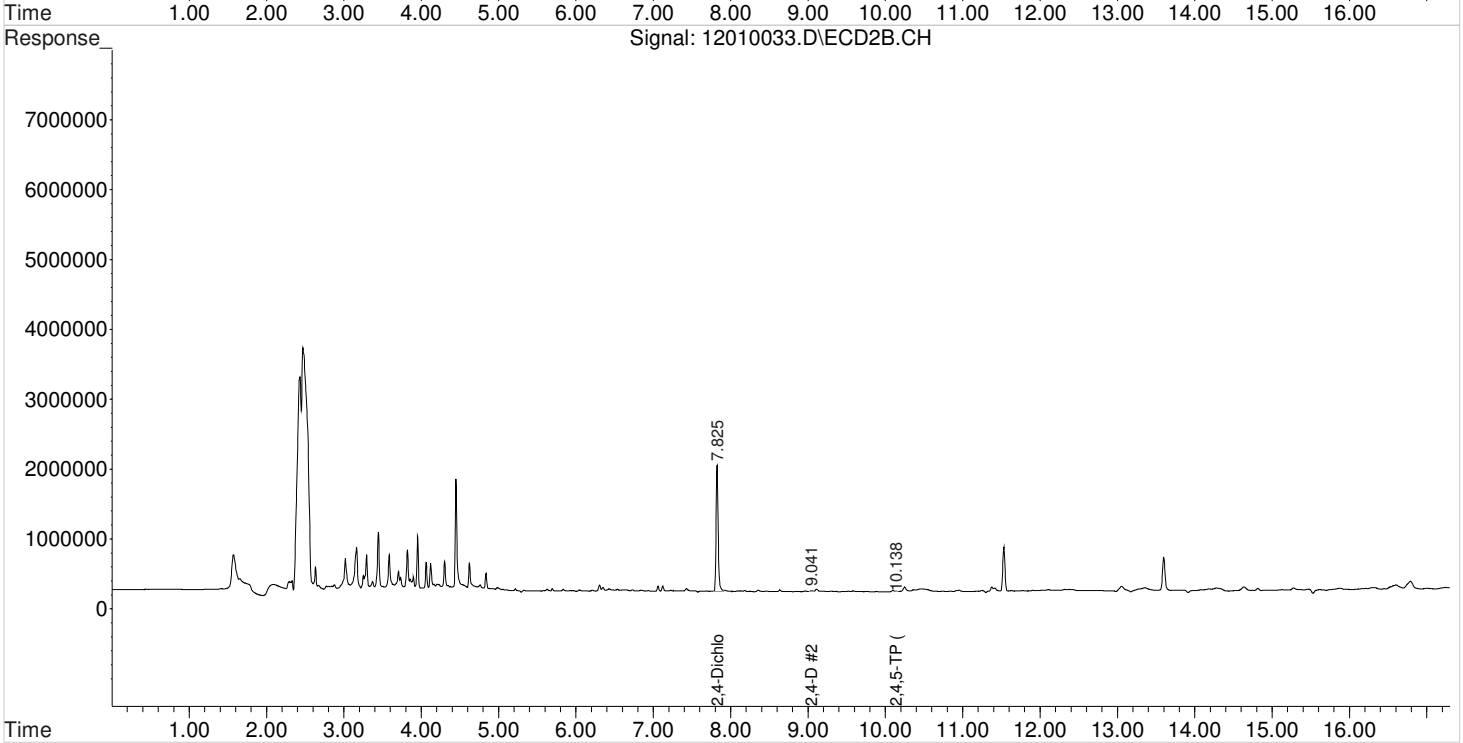
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:13:08 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





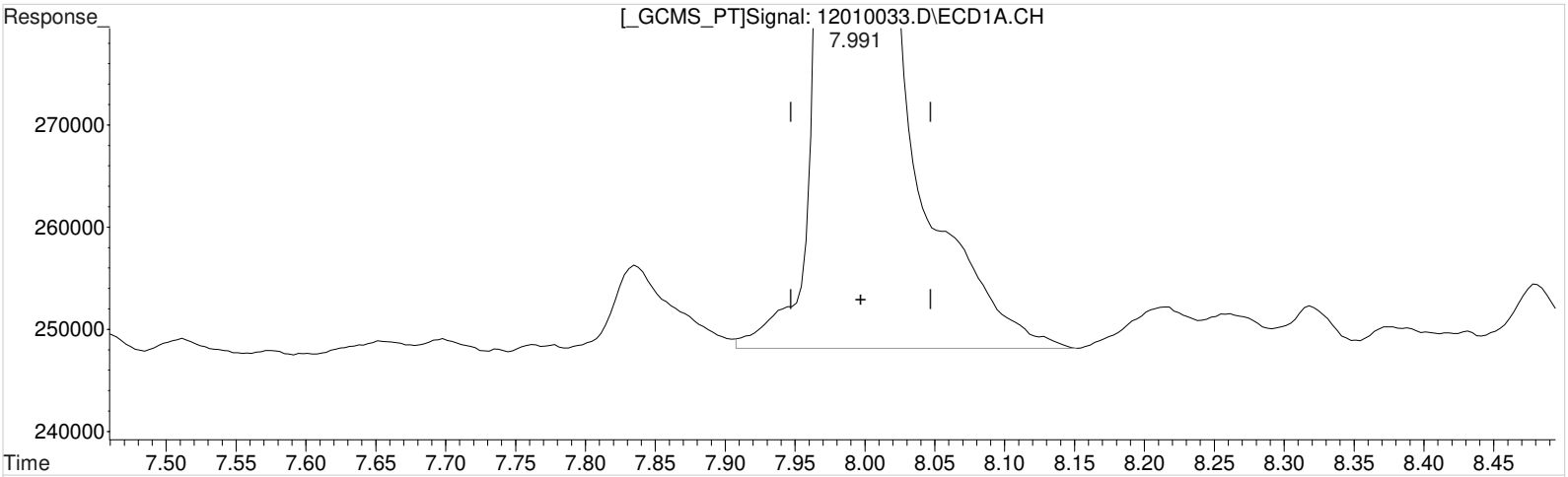
Quantitation Report (Qedit)

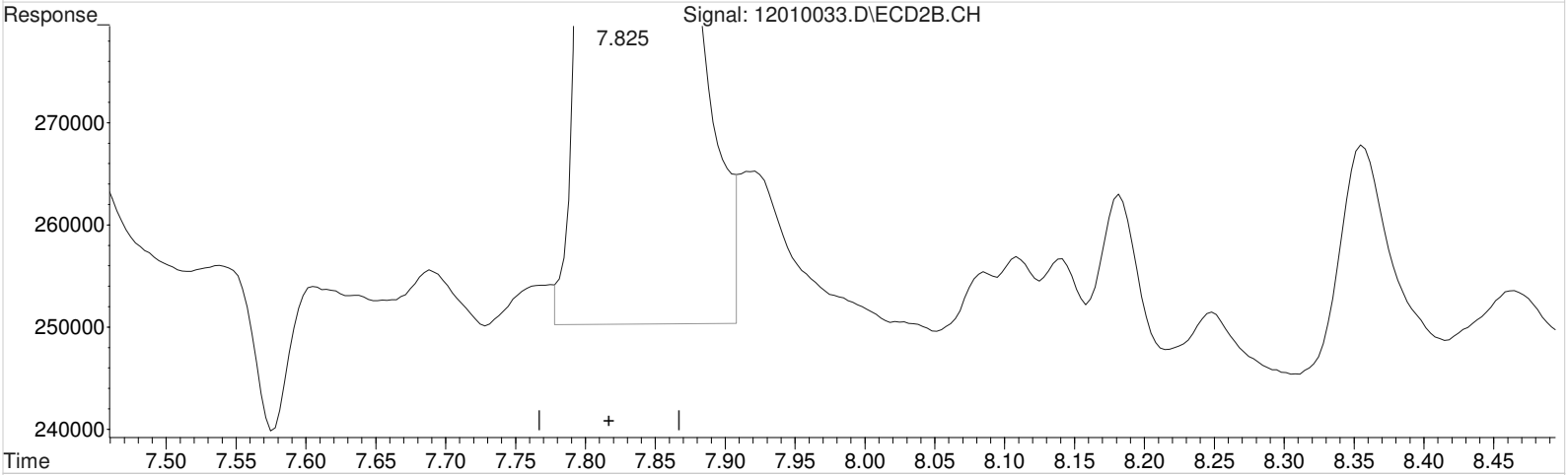
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:01 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





QEdit

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

7.991min 53.762 ppb

response 978281

Manual Integration:

Before

12/02/20

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

7.825min 80.386 ppb

response 3400160

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:01 2020
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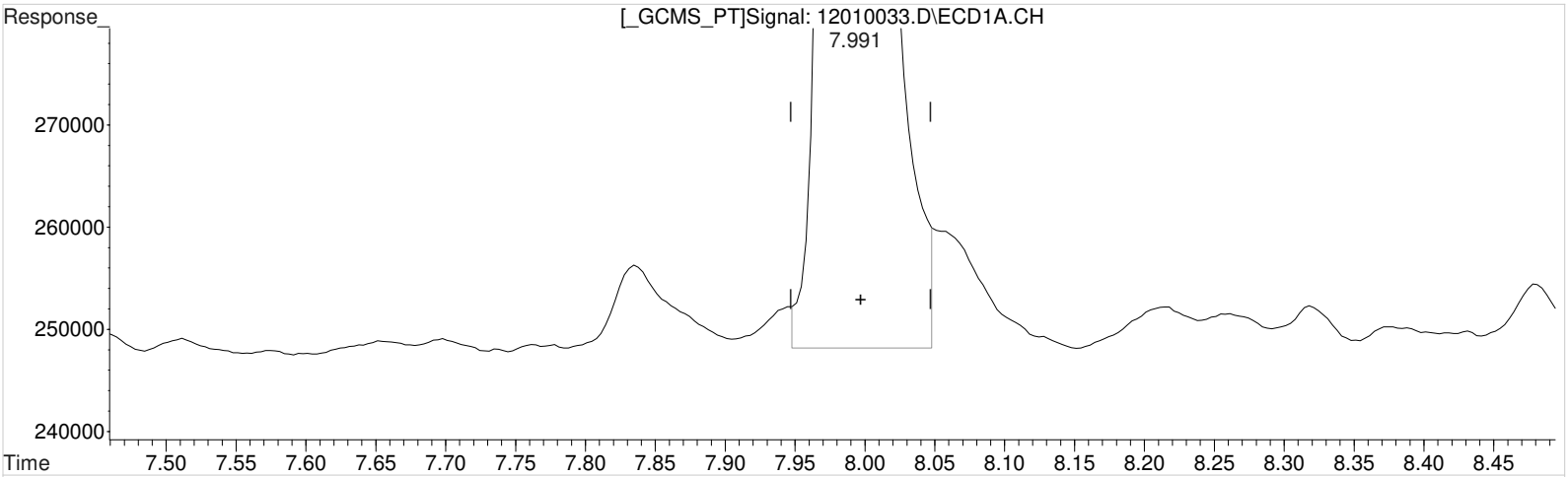
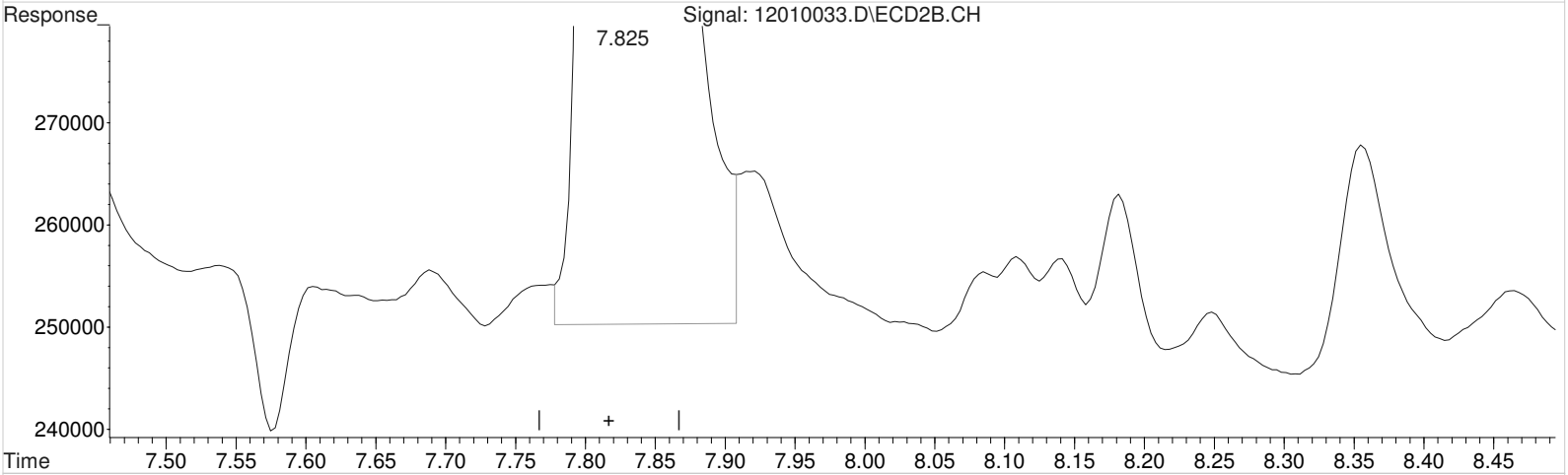
Quant Method : J:\gc24\Methods\102120_8151.M
Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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





QEdit

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

7.991min 51.847 ppb m

response 943432

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.825min 80.386 ppb

response 3400160

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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Quant Title : 103118_8151.m MJ215 CAL_KC1800
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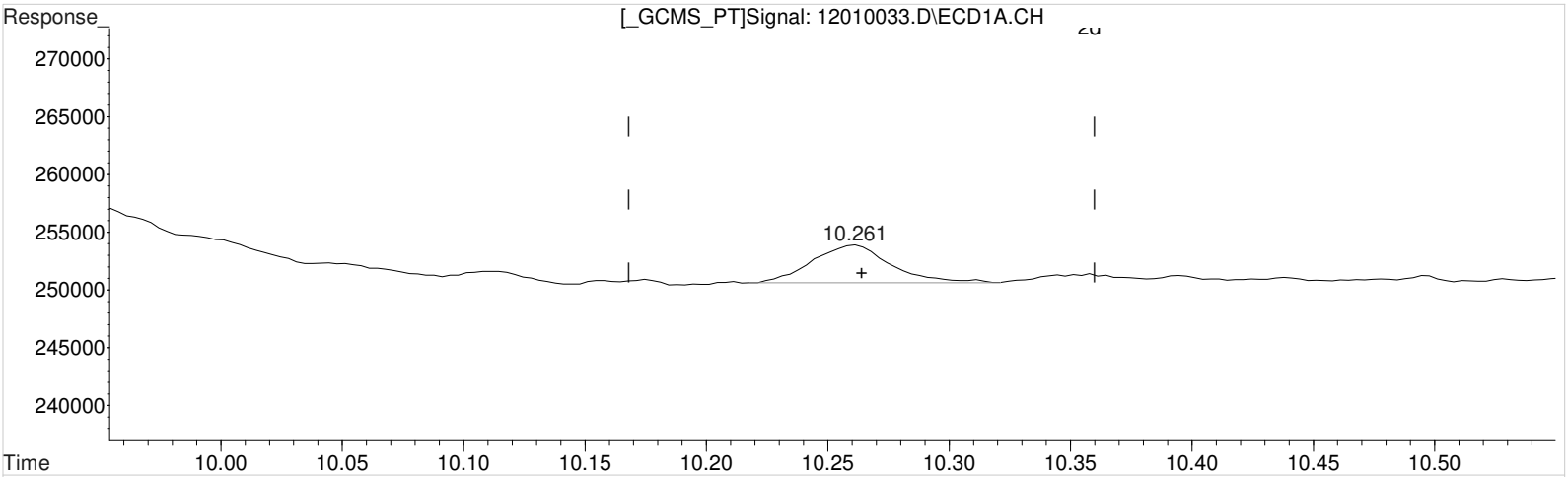
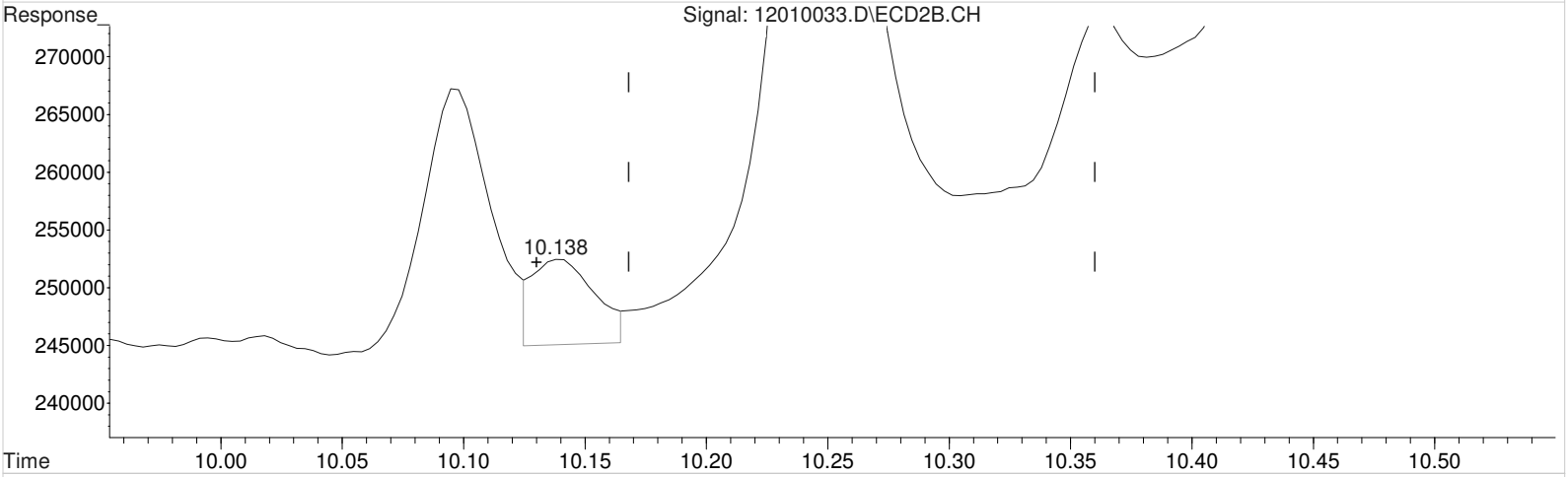
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.261min 0.078 ppb

response 7339

(8) 2,4,5-TP (Silvex) #2 (m)

10.138min 0.065 ppb

response 13111

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

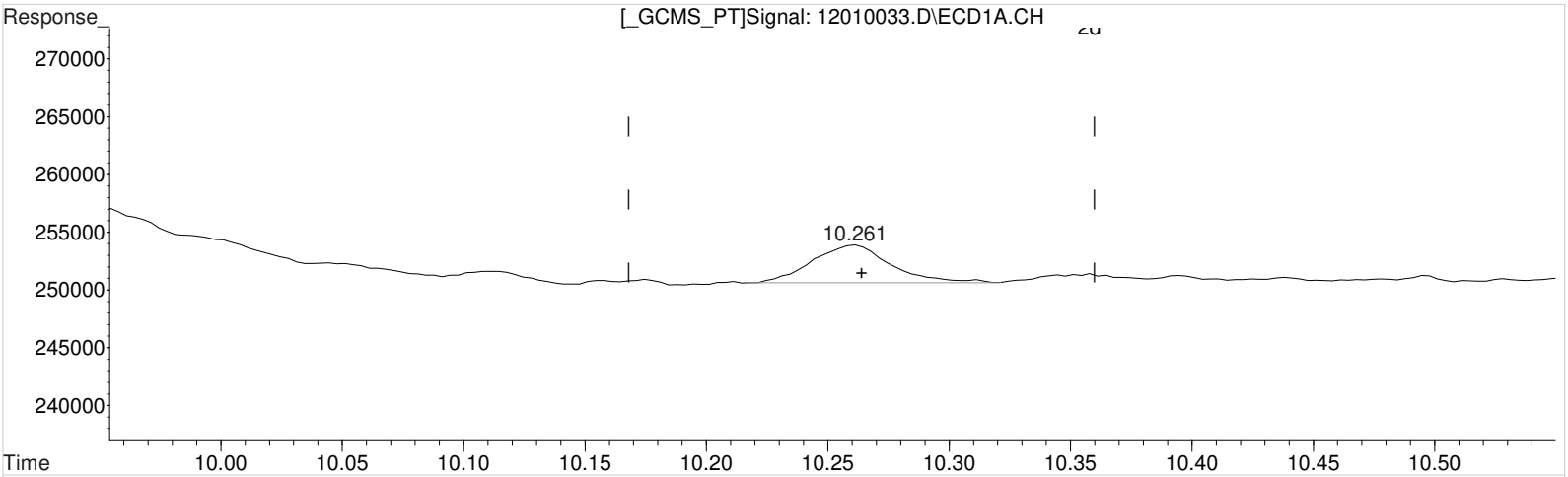
Quantitation Report (Qedit)

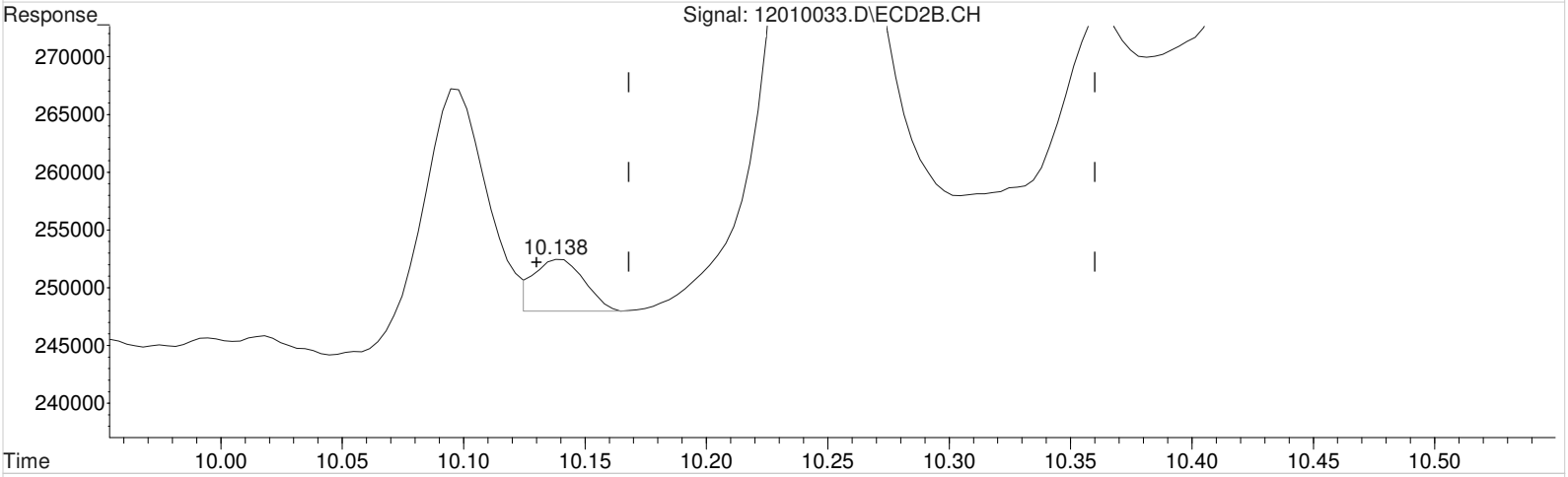
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010033.D Vial: 3
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:33 am Operator: UA
Sample : KQ2017965-04MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:01 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.261min 0.078 ppb

response 7339

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.138min 0.031 ppb m

response 6264

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010044.D\
Lab ID: KQ2018489-02
RunType: MB
Matrix: Sediment

Date Acquired: 12/2/20 09:44:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010044.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 09:44:00	**Vial:**	26
Run Type:	MB	**Dilution:**	1
Lab ID:	KQ2018489-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	KQ2018489
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1149787	4301675	63.187	101.700	63	102	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	10.13 -0.01	8580	13157	0.092	0.065	0.15U	0.11U	2.4 U	Y
2,4-D	9.28 -0.04	9.04 -0.03	6905	100264	0.325	1.958	0.54U	3.2U	7.7 U	Y

Prep Amount:	30.2330 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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 15:16:53 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...	7.986	7.819	1149787	4301675	63.187m	101.700m#
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.276f	9.039	6905	100264	0.325m	1.958 #
8) m	2,4,5-TP ...	10.256	10.133	8580	13157	0.092m	0.065m#
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

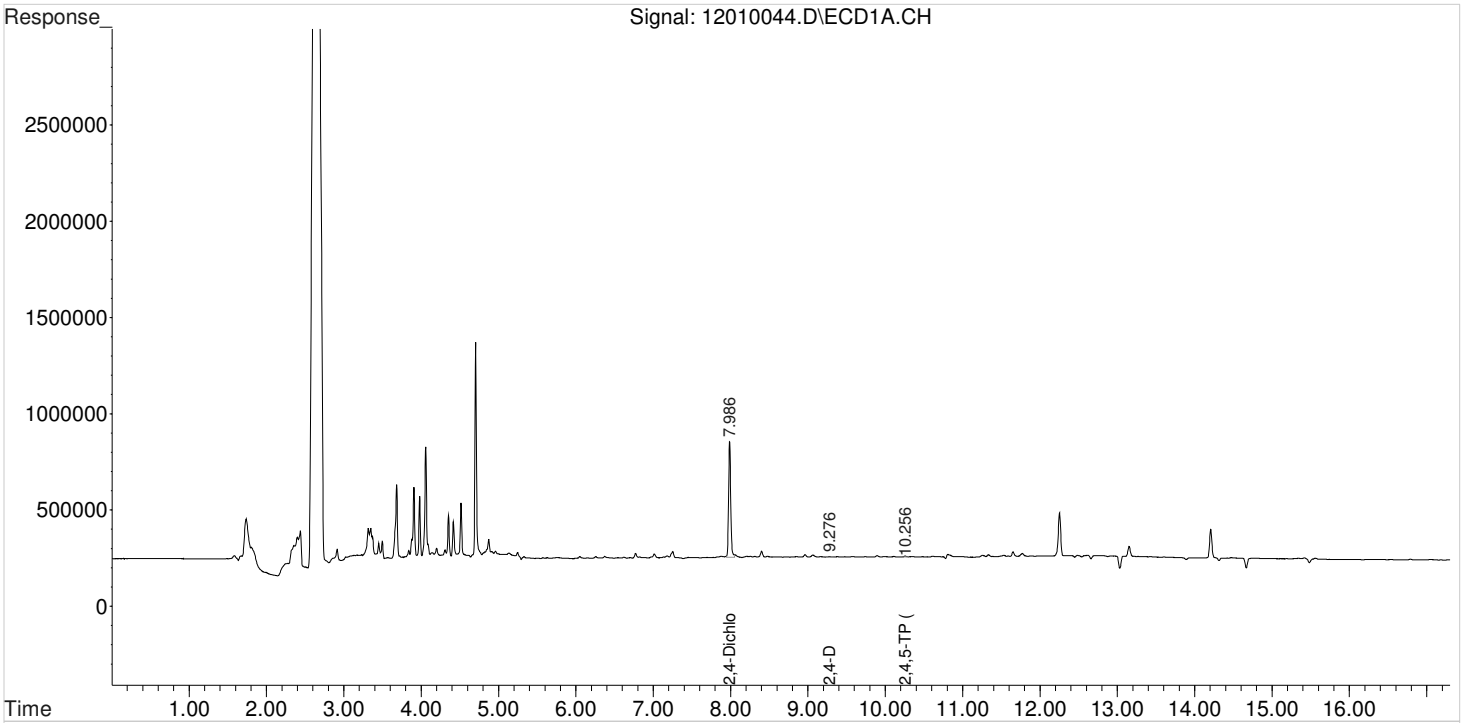
Quantitation Report (QT Reviewed)

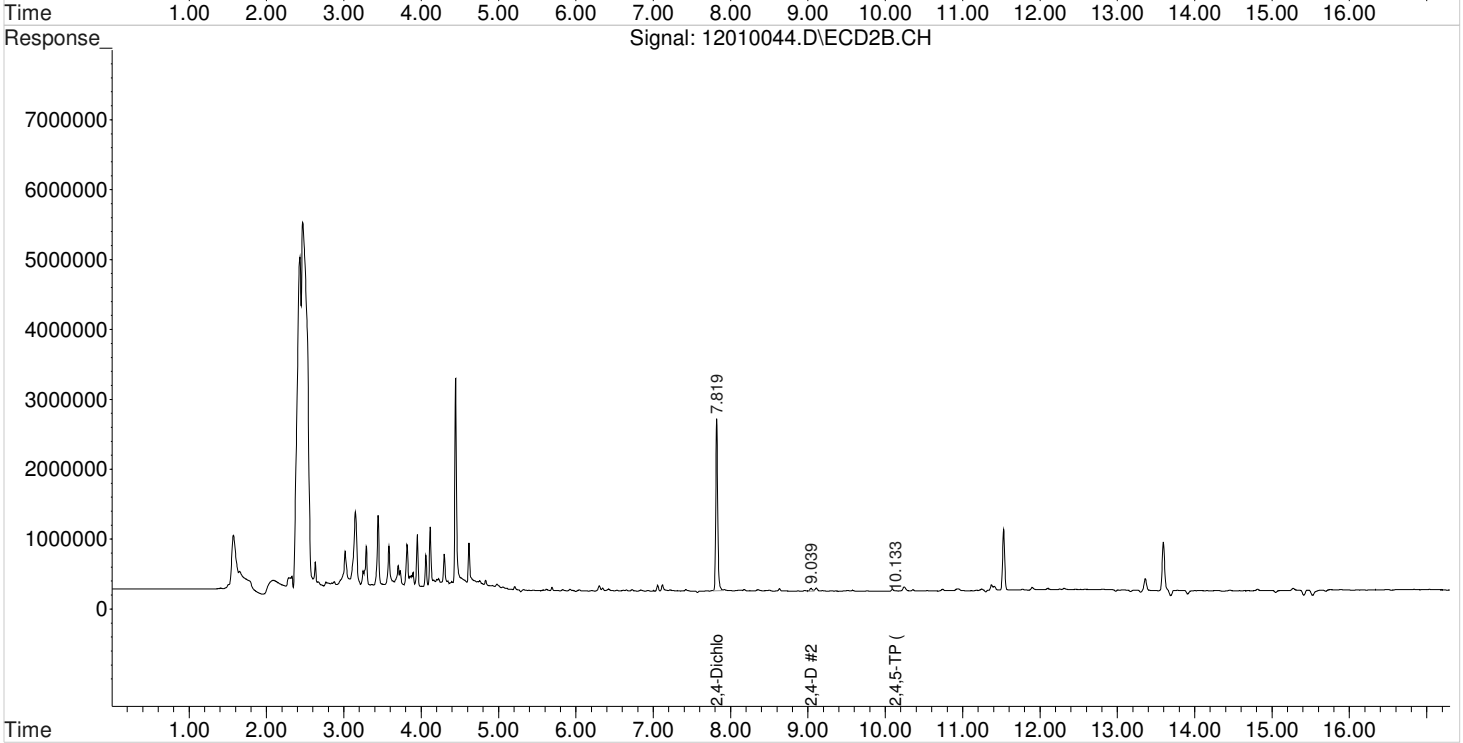
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 15:16:53 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



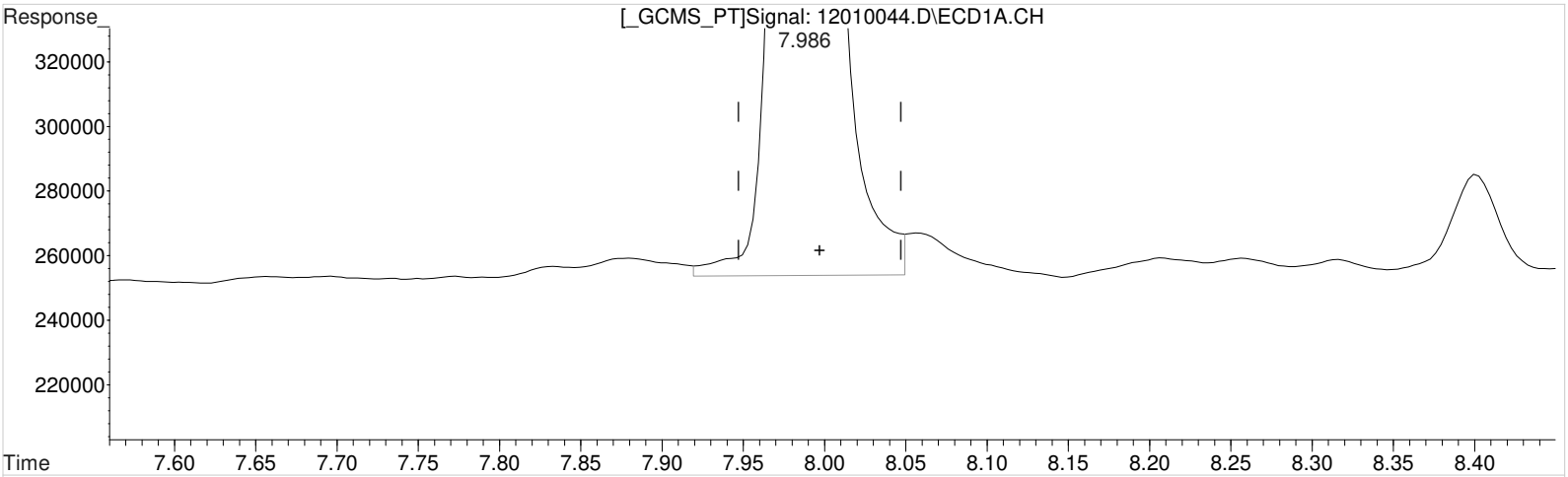


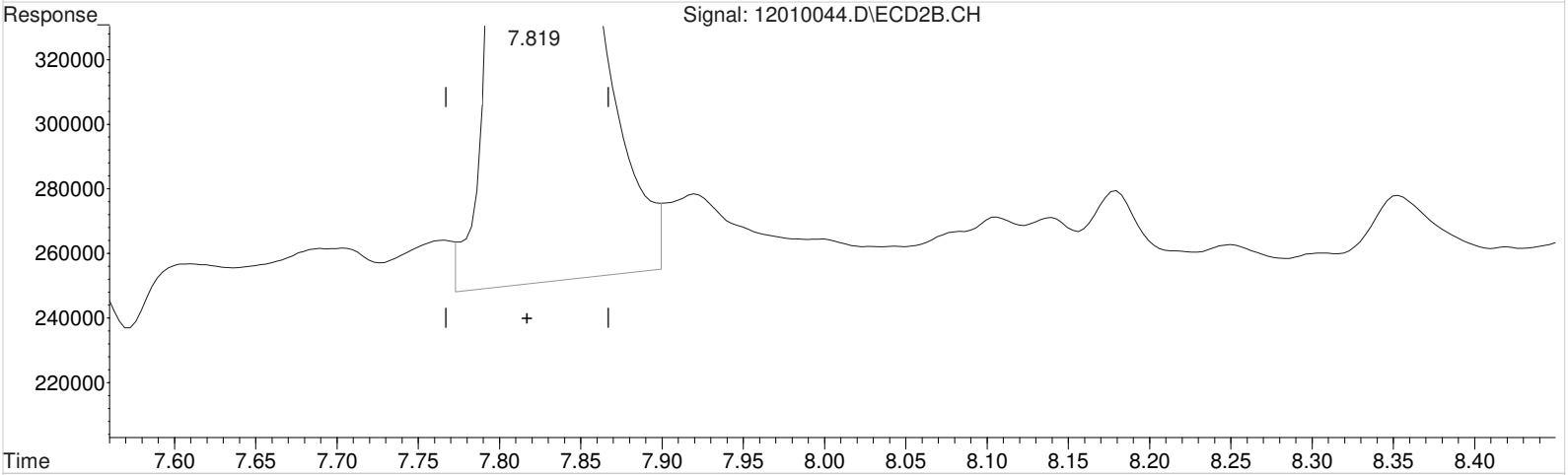
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

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

7.986min 63.667 ppb

response 1158516

Manual Integration:

Before

12/02/20

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

7.819min 103.598 ppb

response 4381973

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
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Quant Time: Dec 02 14:32:17 2020
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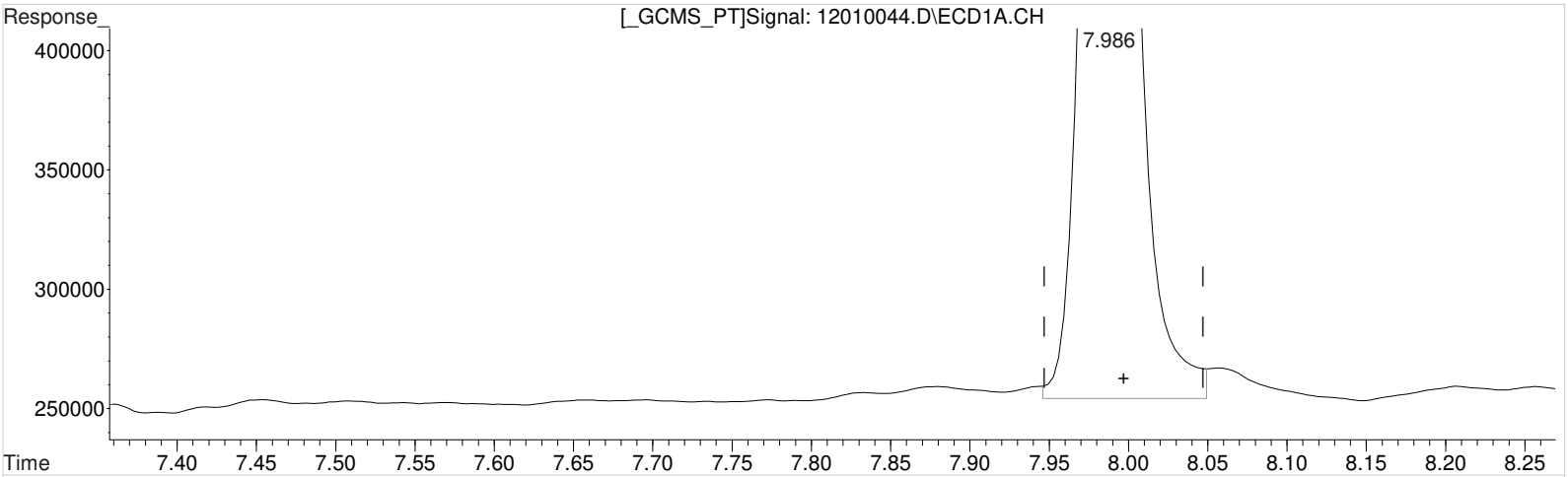
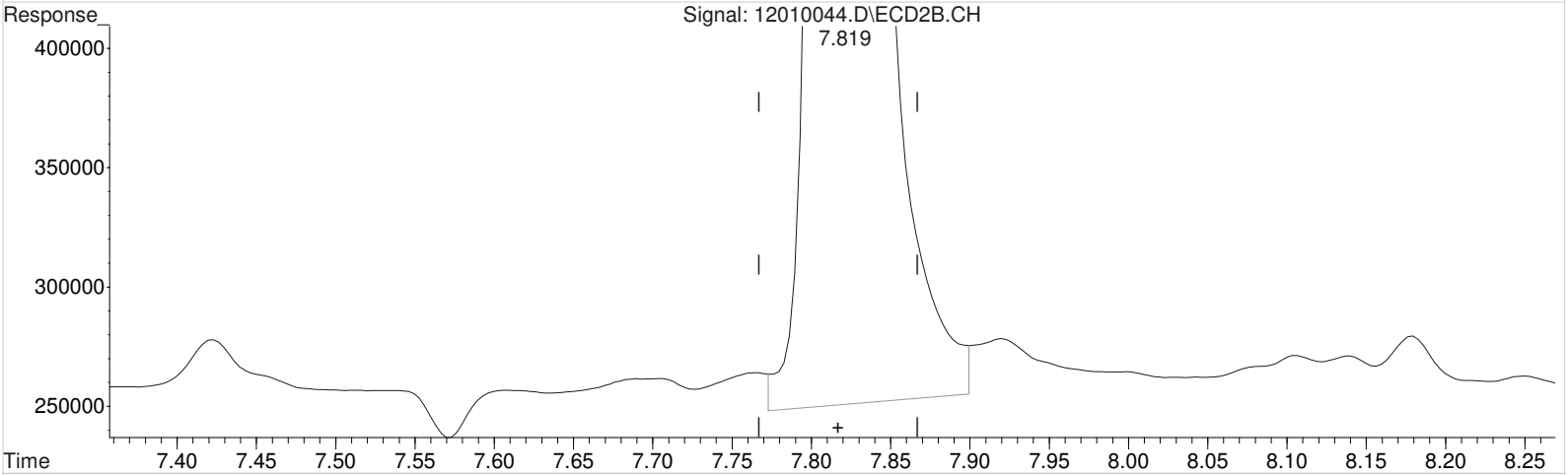
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.986min 63.187 ppb m

response 1149787

Manual Integration:

Before

12/02/20

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

7.819min 103.598 ppb

response 4381973

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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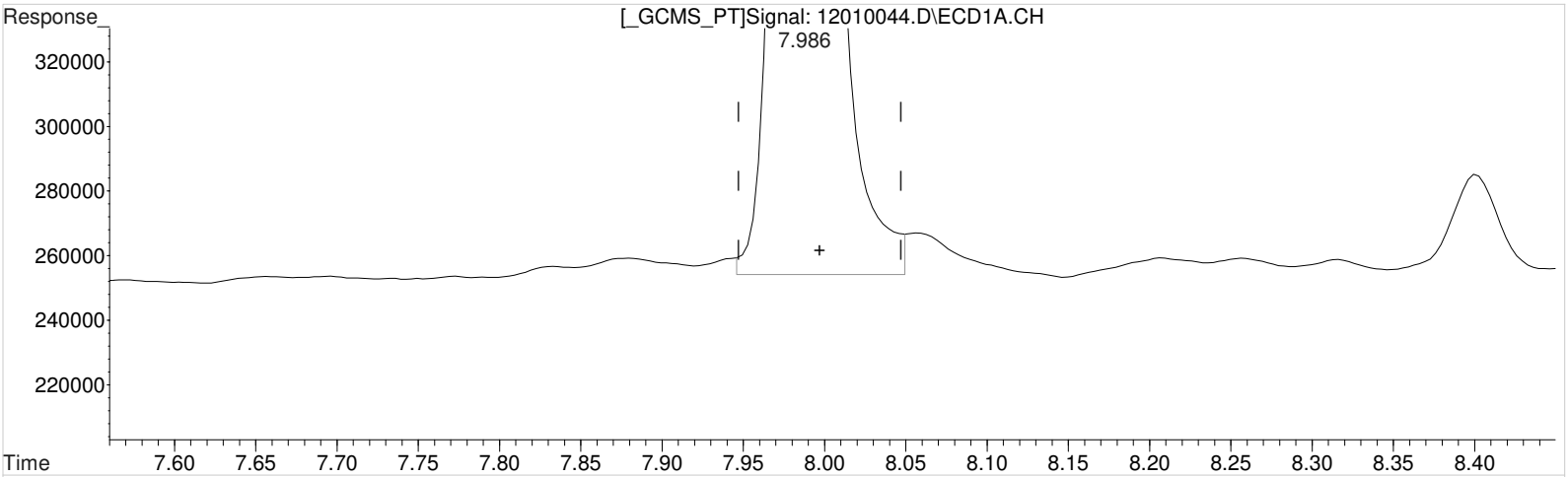
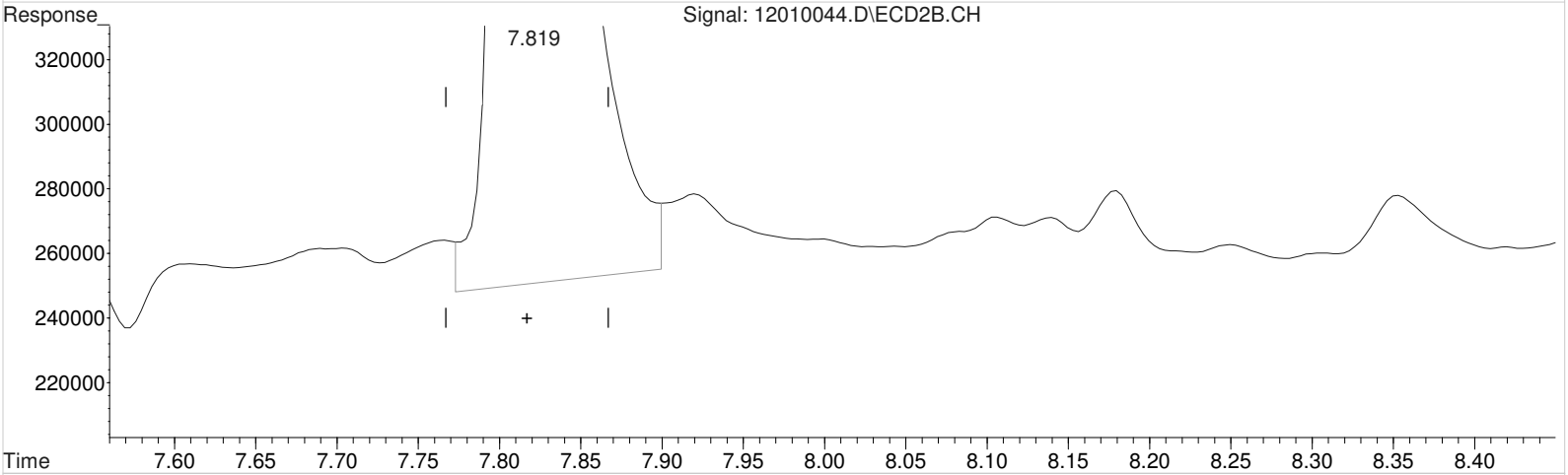
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.986min 63.187 ppb m

response 1149787

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

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response 4381973

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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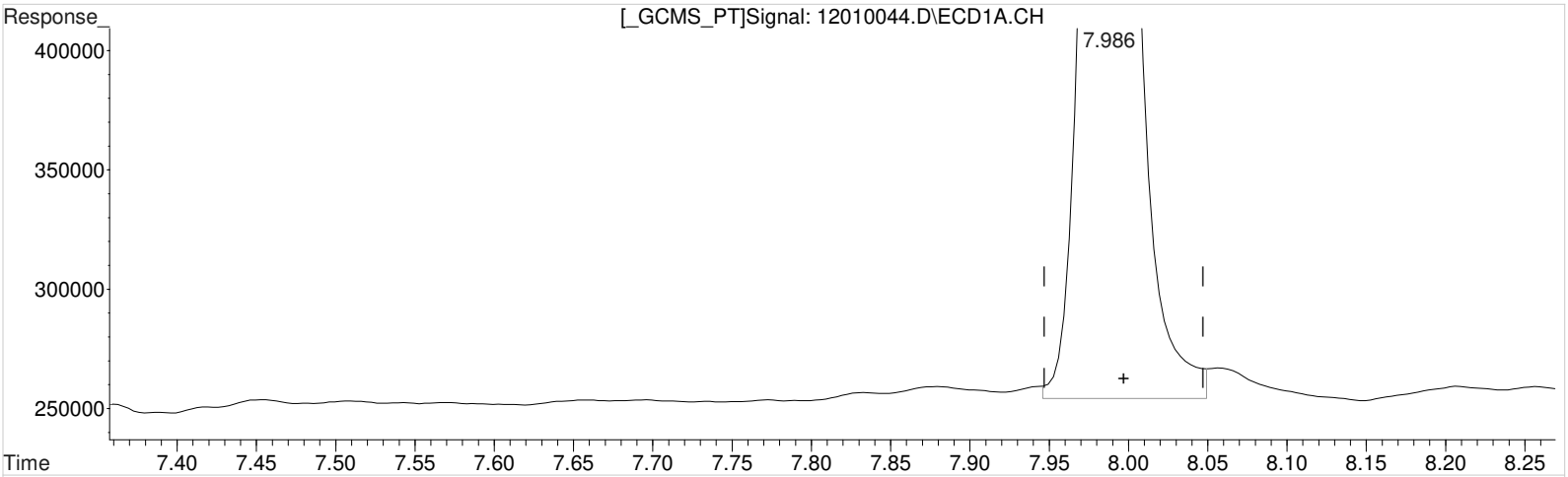
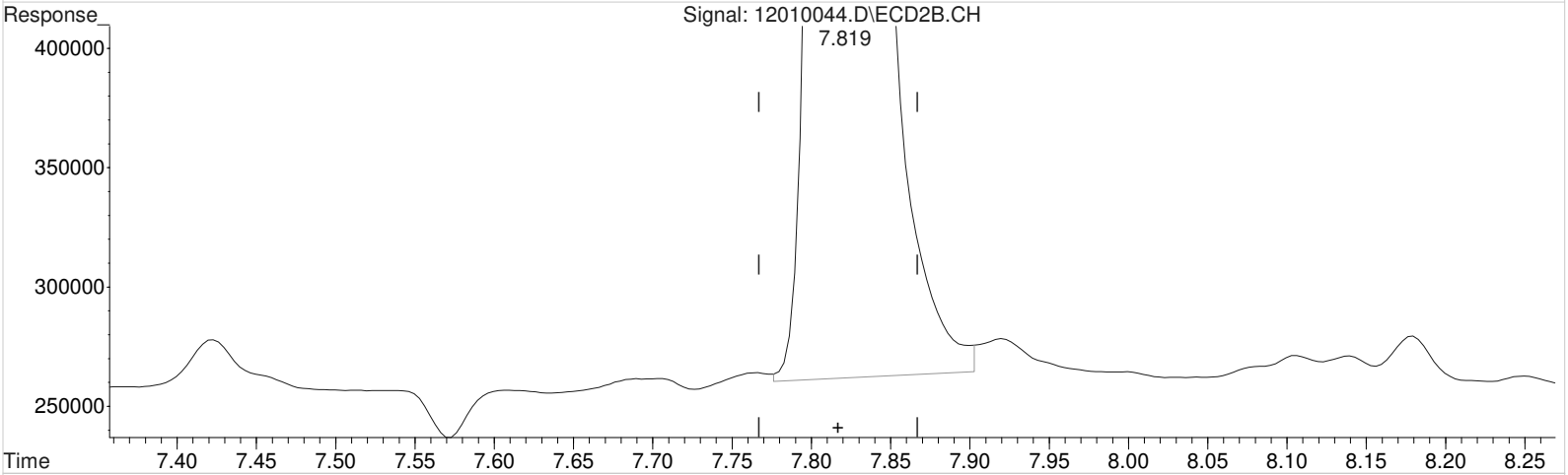
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

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

7.986min 63.187 ppb m

response 1149787

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.819min 101.700 ppb m

response 4301675

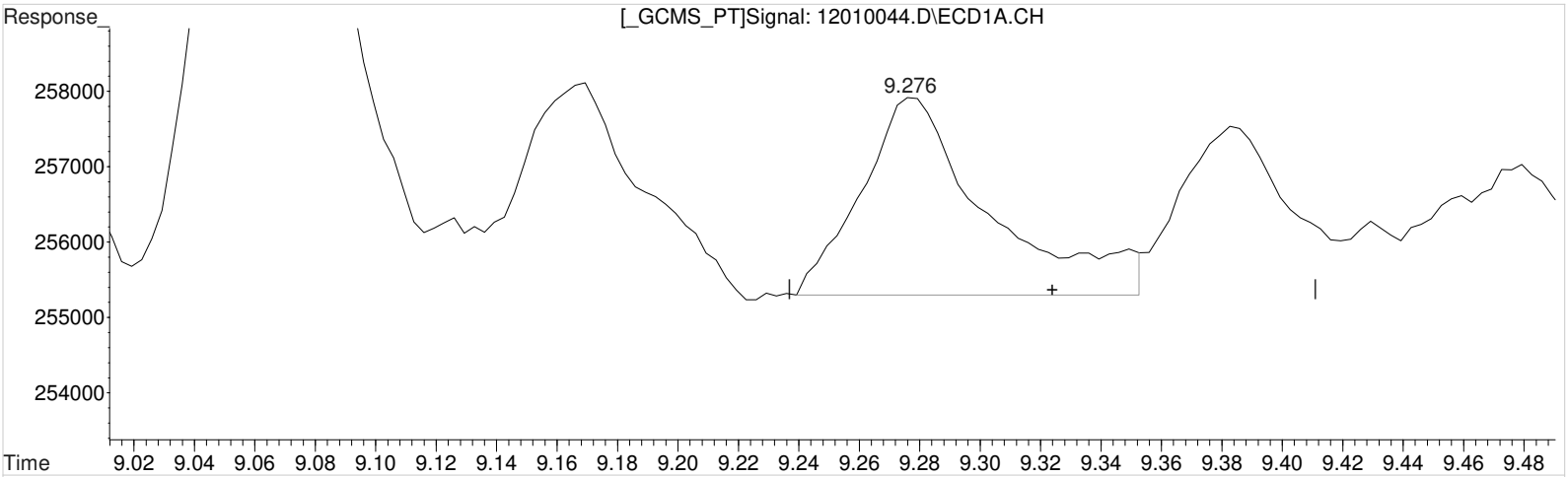
(+) = Expected Retention Time

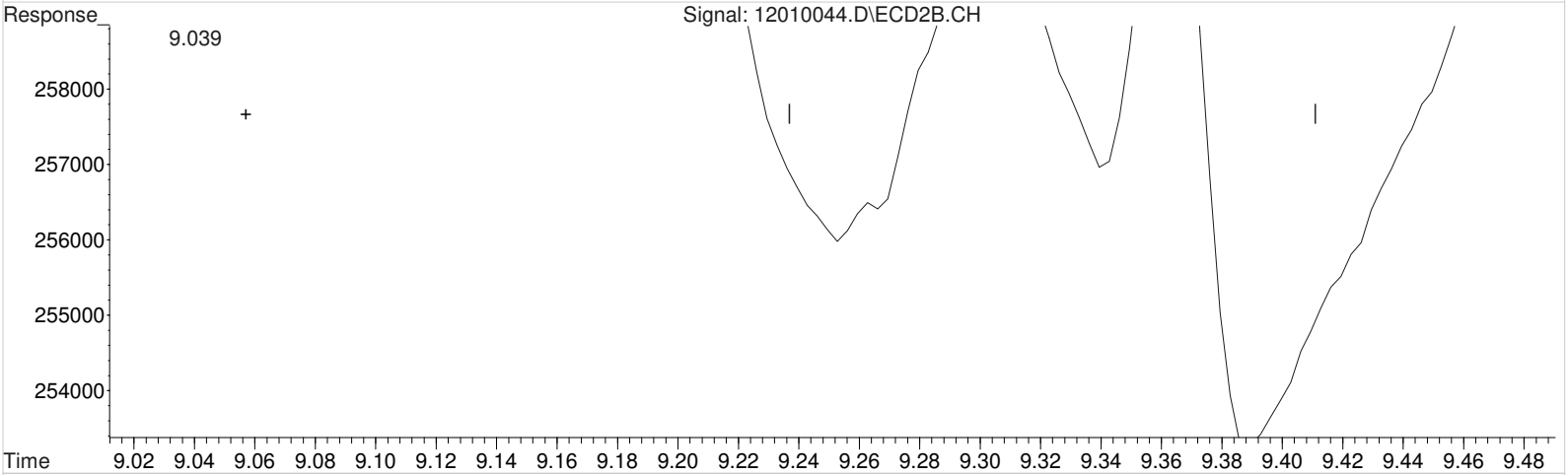
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(7) 2,4-D (m)

9.276min 0.361 ppb

response 7664

(7) 2,4-D #2 (m)

9.039min 1.958 ppb

response 100264

Manual Integration:

Before

12/02/20

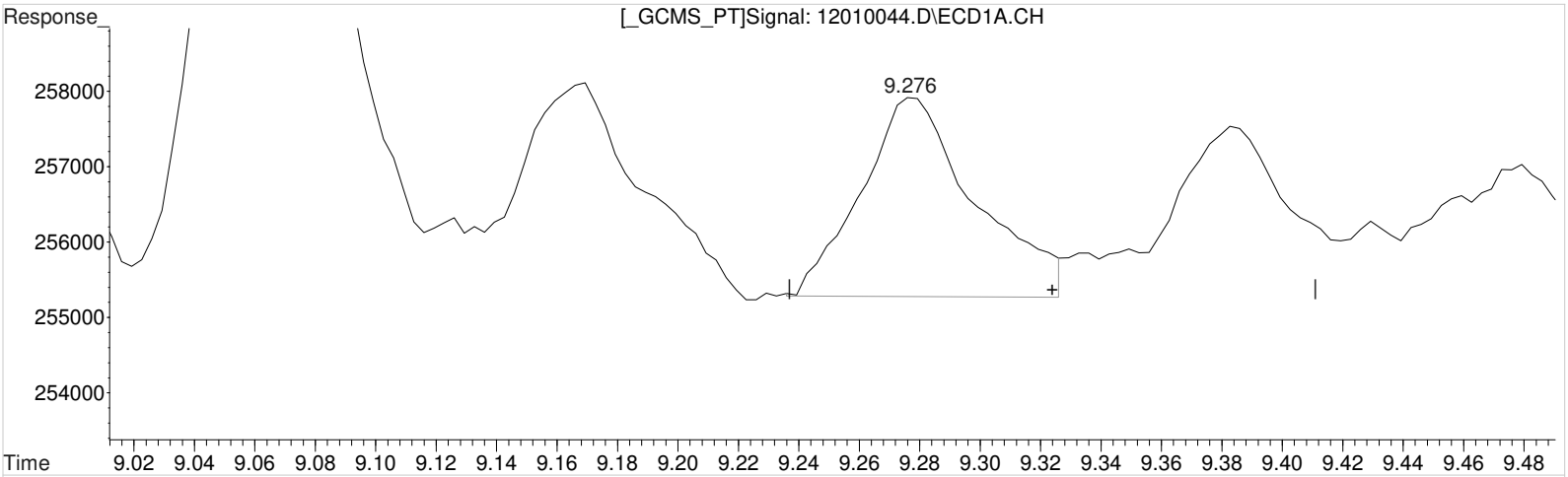
(+) = Expected Retention Time

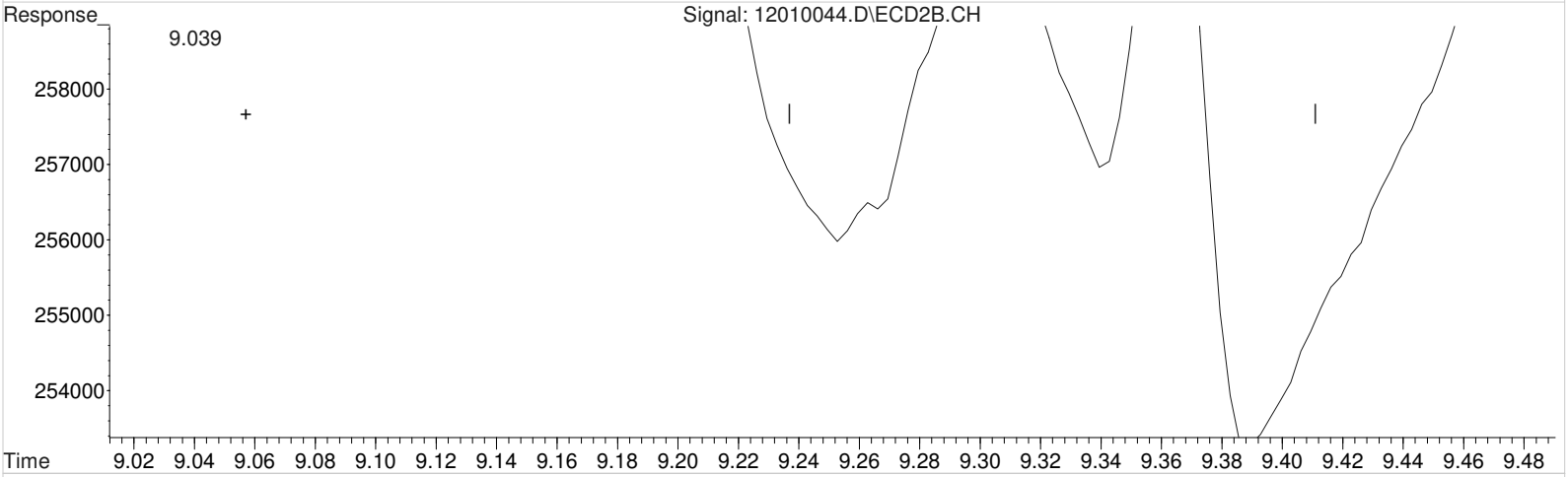
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(7) 2,4-D (m)

9.276min 0.325 ppb m

response 6905

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.039min 1.958 ppb

response 100264

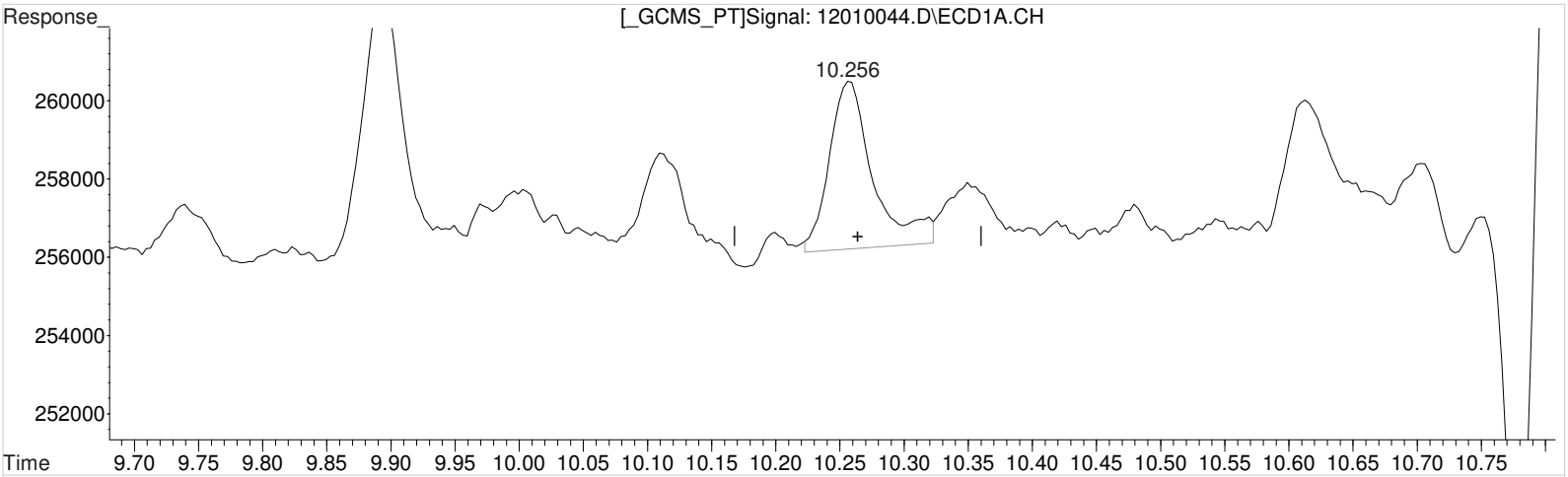
(+) = Expected Retention Time

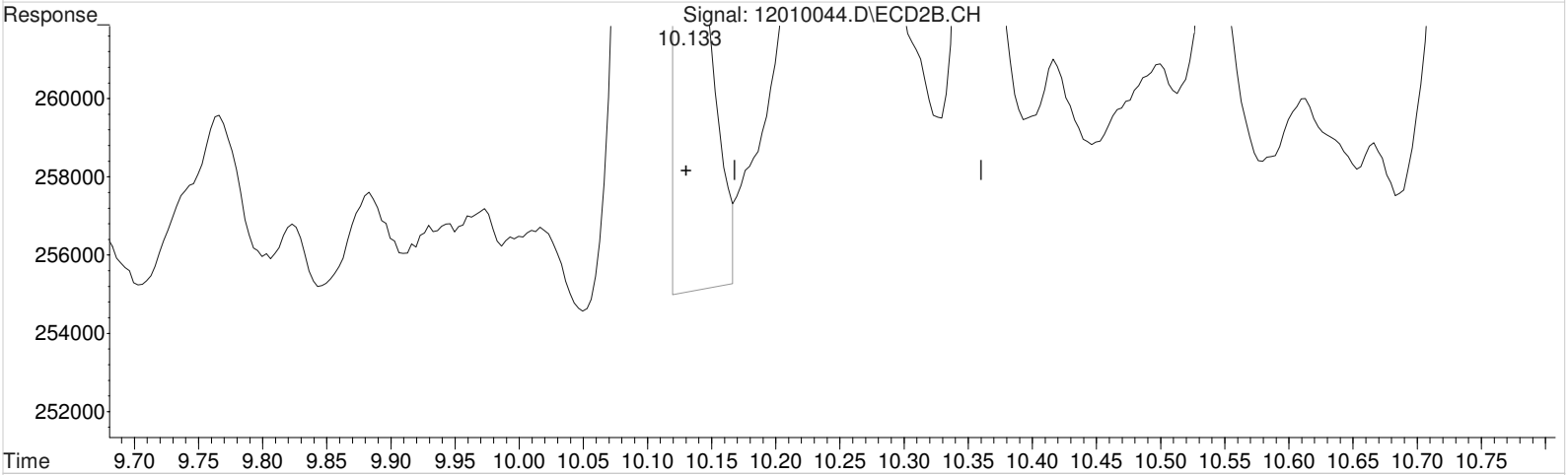
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.256min 0.108 ppb

response 10162

(8) 2,4,5-TP (Silvex) #2 (m)

10.133min 0.096 ppb

response 19445

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

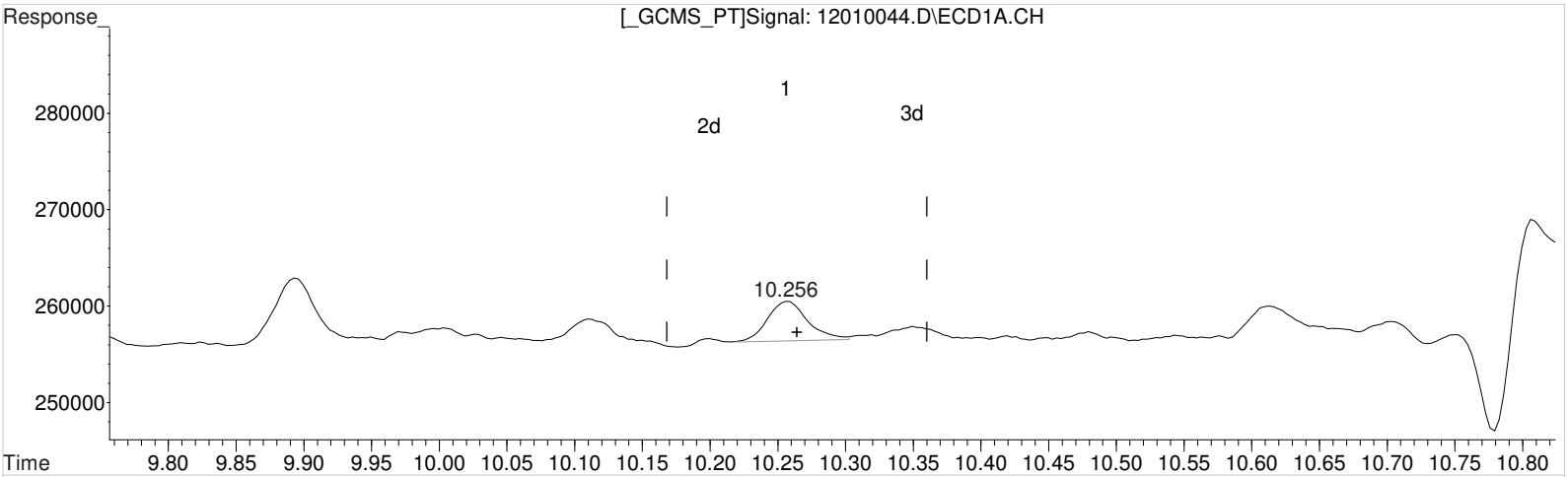
Quantitation Report (Qedit)

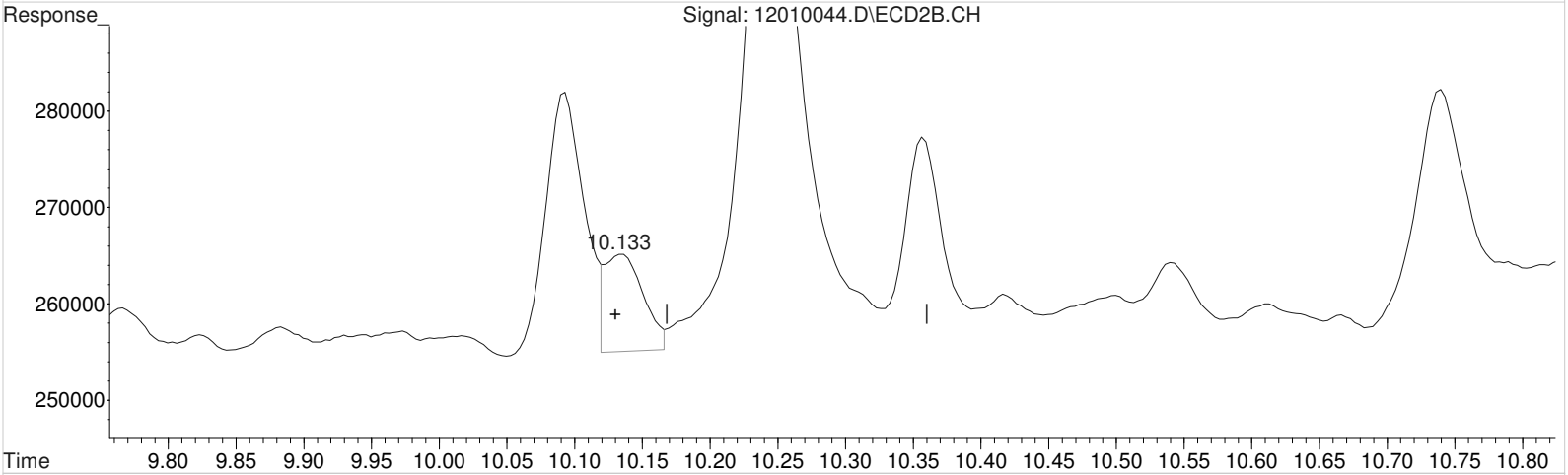
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.256min 0.092 ppb m

response 8580

(8) 2,4,5-TP (Silvex) #2 (m)

10.133min 0.096 ppb

response 19445

Manual Integration:

Before

12/02/20

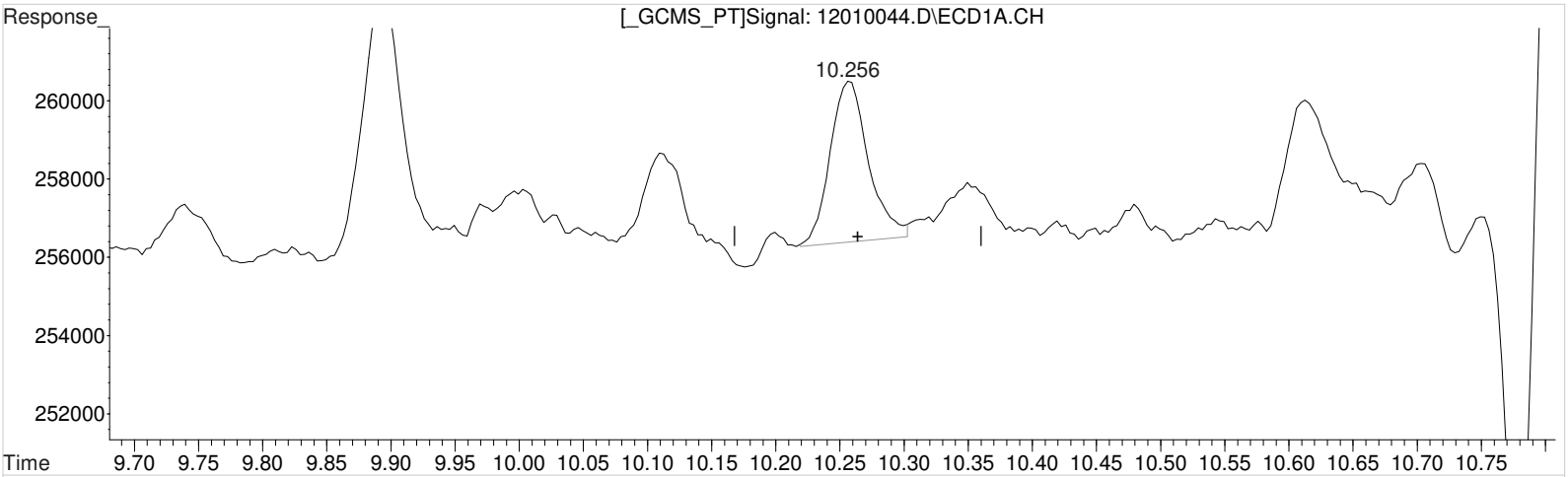
(+) = Expected Retention Time

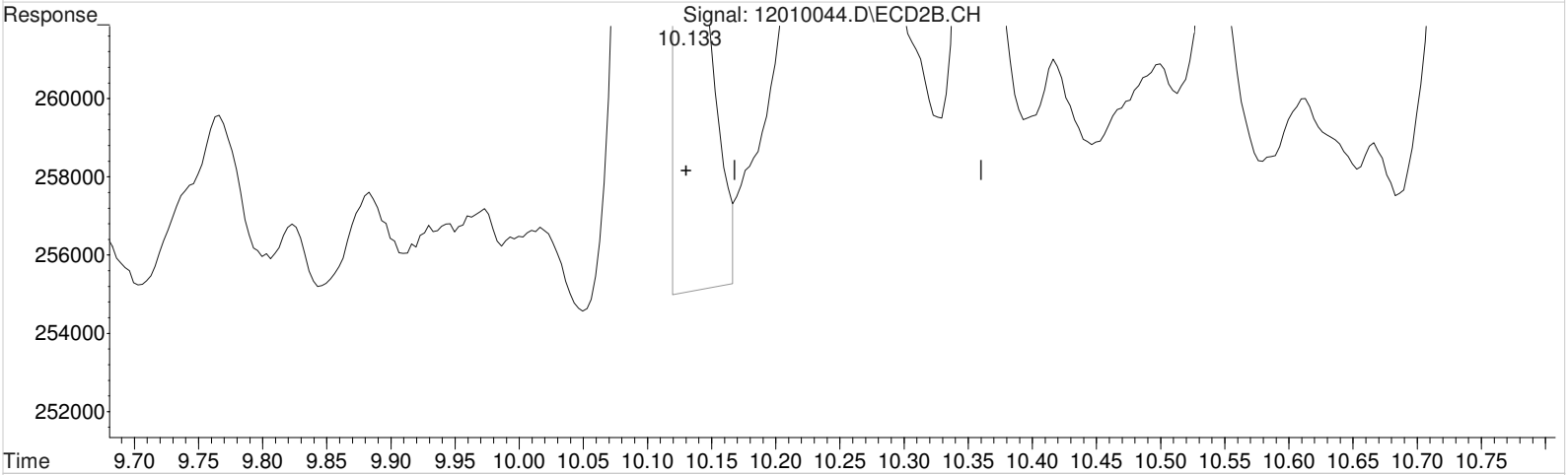
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.256min 0.092 ppb m

response 8580

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.133min 0.096 ppb

response 19445

(+) = Expected Retention Time

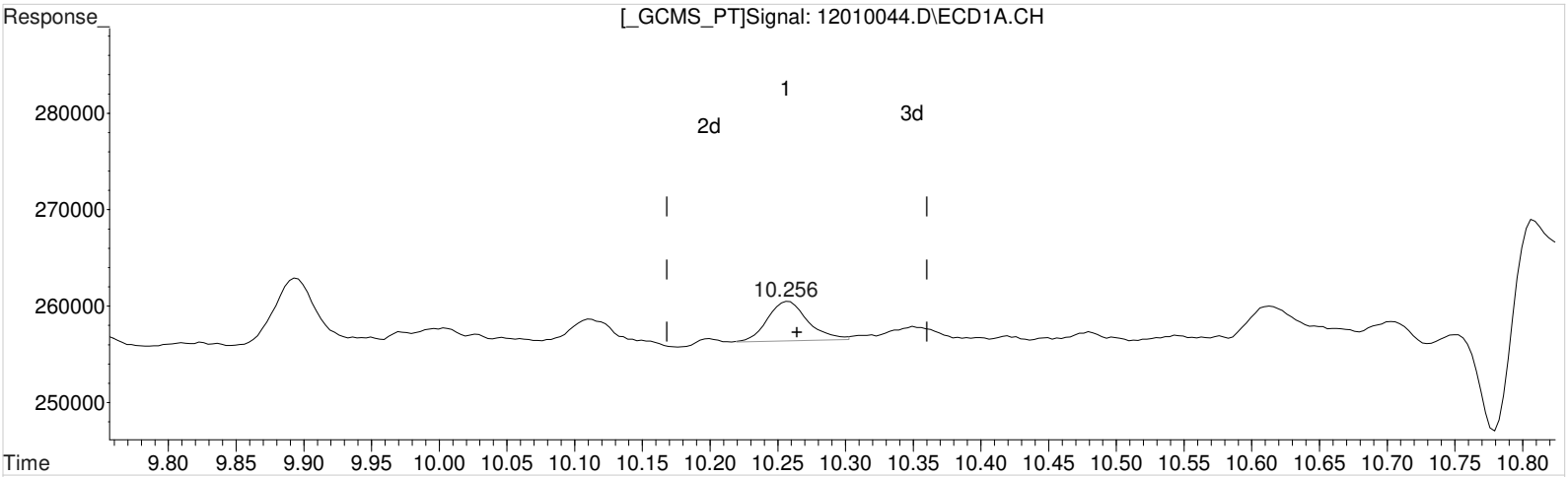
Quantitation Report (Qedit)

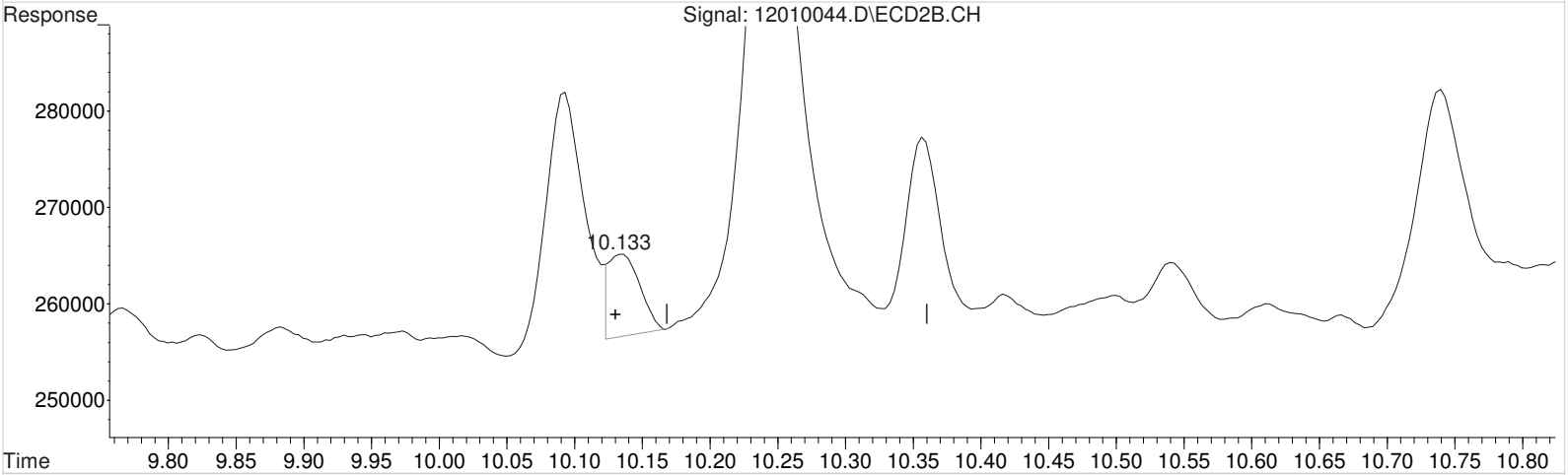
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010044.D Vial: 51
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:44 am Operator: UA
Sample : KQ2018489-02MB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:17 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.256min 0.092 ppb m

response 8580

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.133min 0.065 ppb m

response 13157

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010034.D\
Lab ID: KQ2017965-03
RunType: LCS
Matrix: Sediment

Date Acquired: 12/2/20 05:56:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010034.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 05:56:00	**Vial:**	13
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2017965-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	KQ2017965
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

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	1057229	3815475	58.100	90.205	58	90	58	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	10.14	4580215	13936403	48.892	68.653	81.5	114	**81.5**	Y
2,4-D	9.32	9.07	976047	3261310	45.953	63.699	76.6	106	**76.6**	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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1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010034.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 05:56:00	**Vial:**	13
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2017965-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705487	**Prep Lot:**	369767	**Report Group:**	KQ2017965
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/13/20		

Title:	Chlorinated Herbicides by GC	**Calibration ID:**	KC2000566
		Report List ID:	18726

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?
2,4-Dichlorophenylacetic Acid	7.99	7.82	1057229	3815475	58.100	90.205	58	90	58	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-T	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	4.0 U	Y
2,4,5-TP (Silvex)	10.26	10.14	4580215	13936403	48.892	68.653	81.5	114	**81.5**	Y
2,4-D	9.32	9.07	976047	3261310	45.953	63.699	76.6	106	**76.6**	Y
2,4-DB	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	5.4 U	Y
Dalapon	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	5.5 U	Y
Dicamba	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	4.3 U	Y
Dichlorprop	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	3.4 U	Y
Dinoseb	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	2.7 U	Y
MCPA	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	320 U	Y
MCPP	0.00	0.00	0	0	0.000[CCV]	0.000[CCV]	0U	0U	460 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

Printed: 12/2/20 13:00
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:56 am Operator: UA
Sample : KQ2017965-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:22:09 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...	7.989	7.823	1057229	3815475	58.100m	90.205 #
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.316	9.066	976047	3261310	45.953m	63.699m#
8) m	2,4,5-TP ...	10.256	10.136	4580215	13936403	48.892	68.653 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

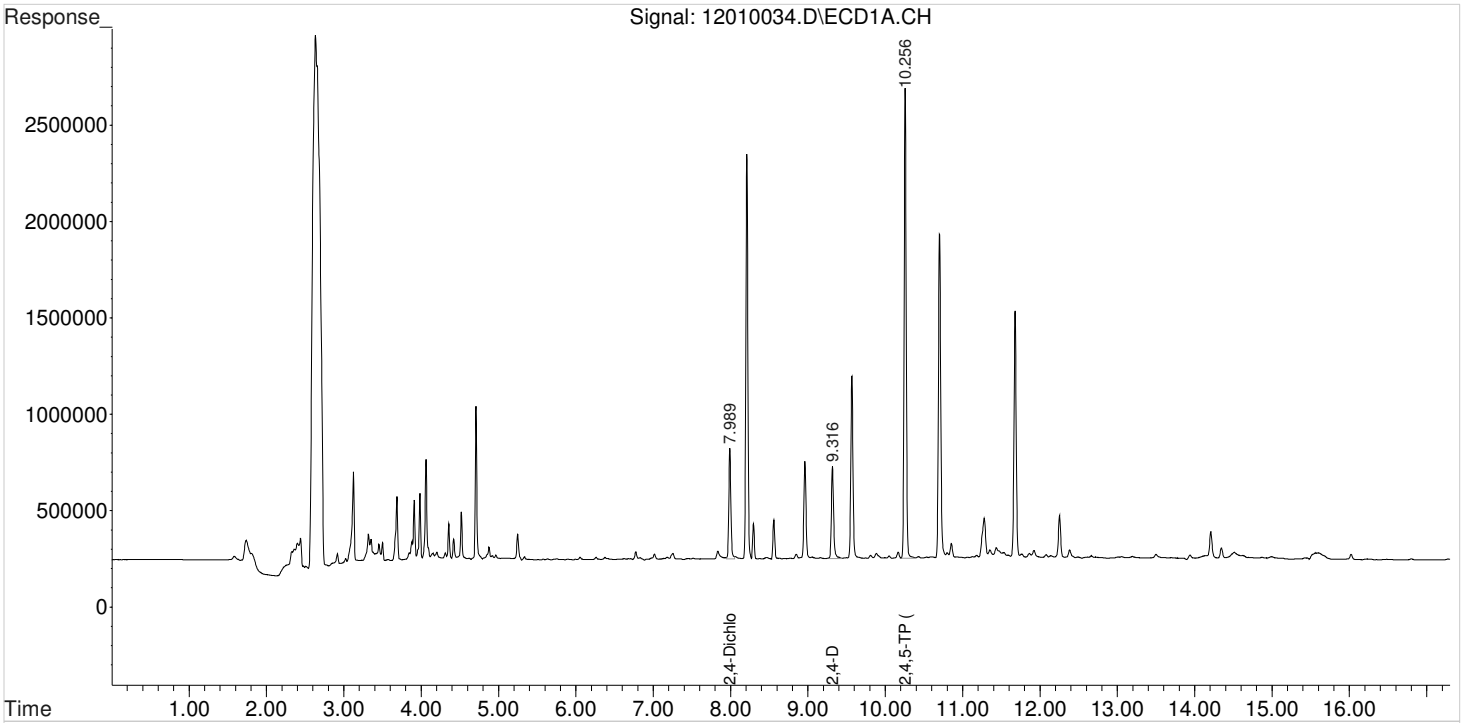
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

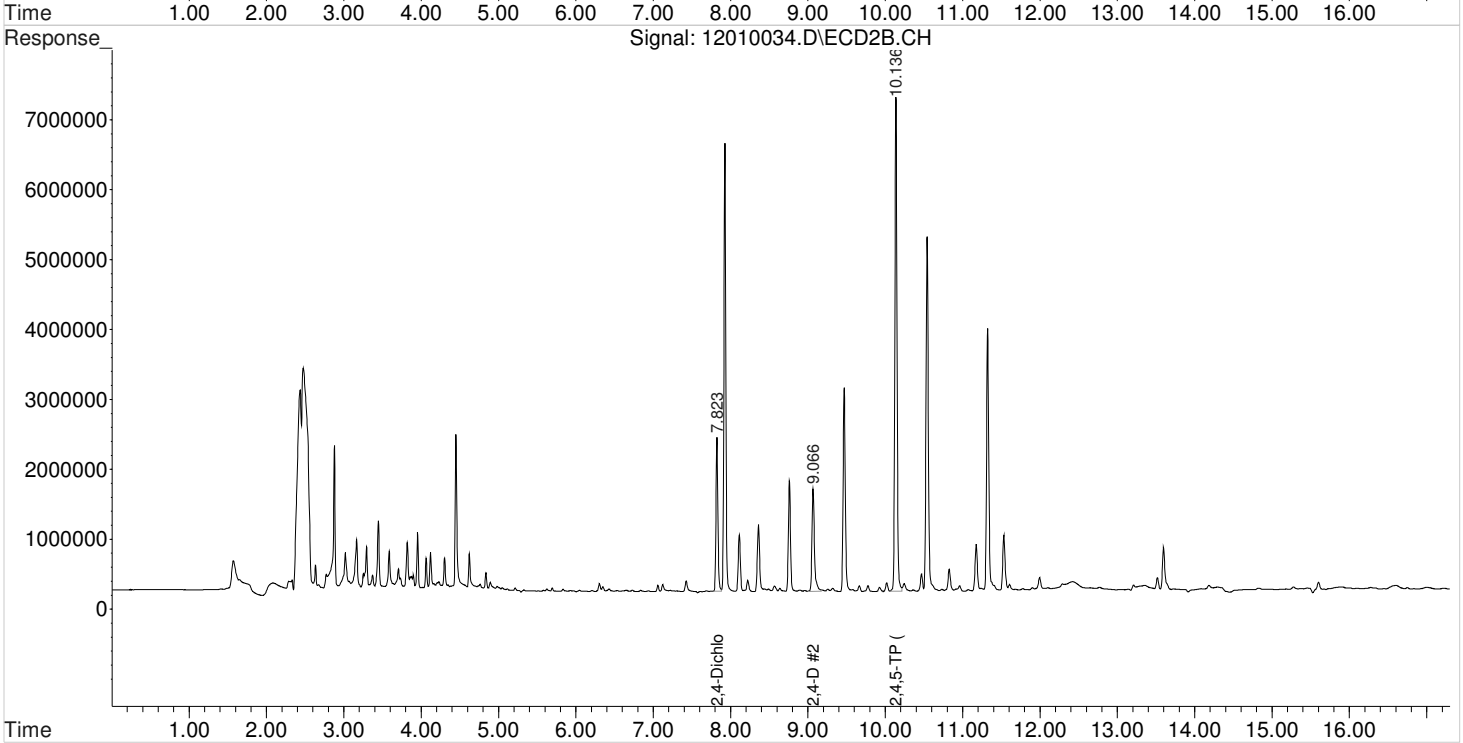
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:56 am Operator: UA
Sample : KQ2017965-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 11:22:09 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



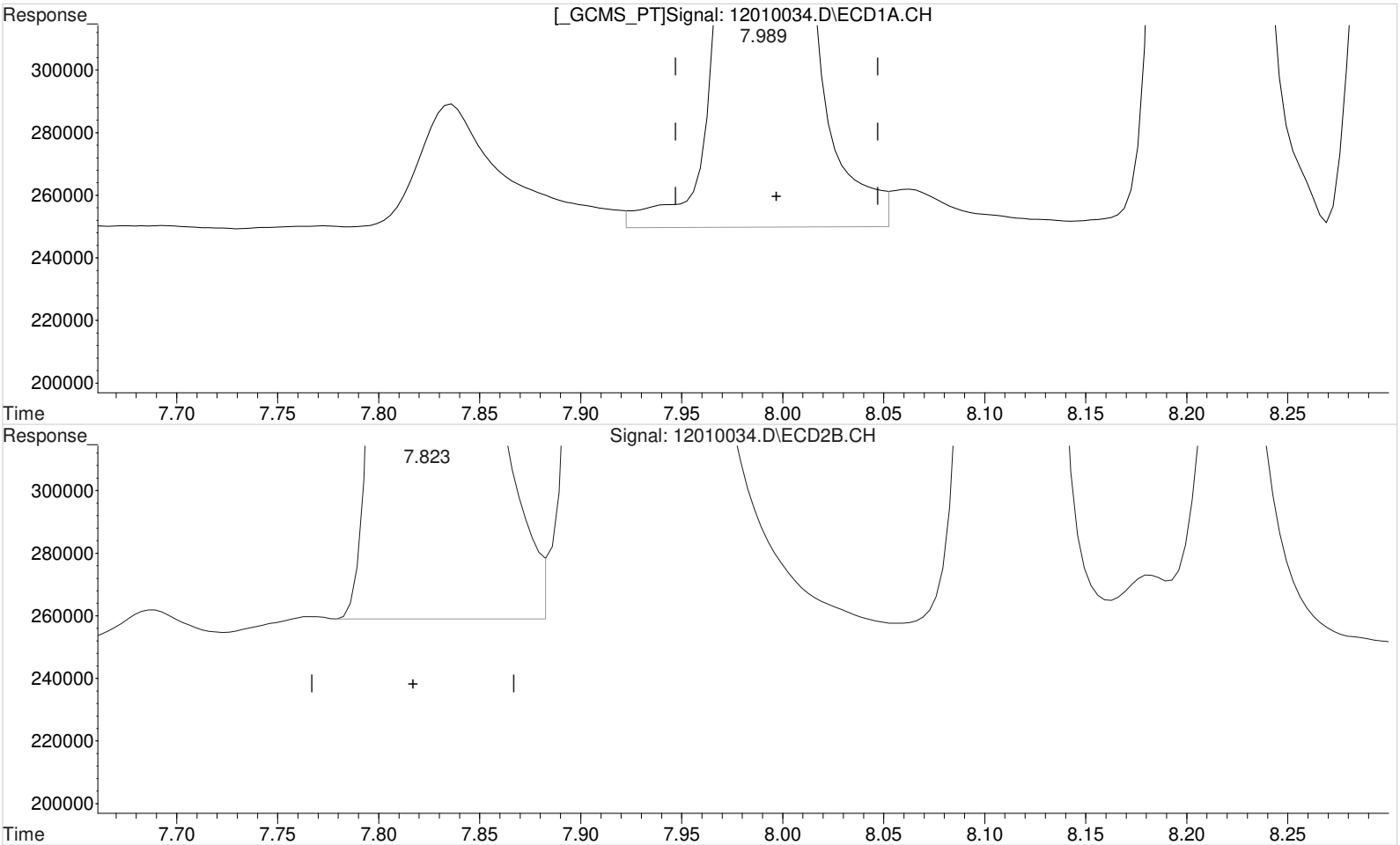


1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:56 am Operator: UA
Sample : KQ2017965-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:04 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



QEdit

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

7.989min 58.804 ppb

response 1070027

Manual Integration:

Before

12/02/20

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

7.823min 90.205 ppb

response 3815475

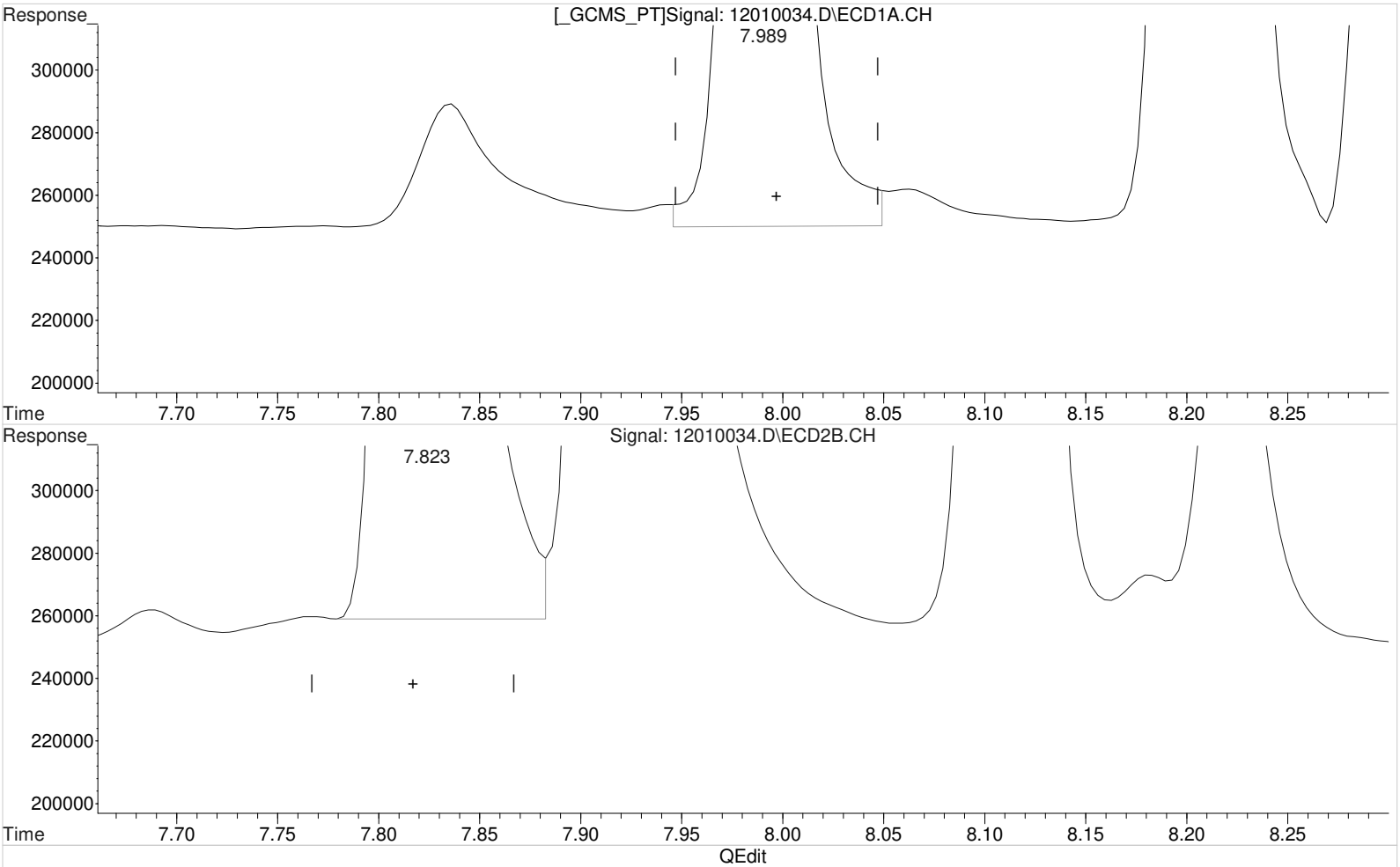
(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:56 am Operator: UA
Sample : KQ2017965-03LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:38:04 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



QEdit

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

7.989min 58.100 ppb m

response 1057229

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.823min 90.205 ppb

response 3815475

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Response via : Initial Calibration
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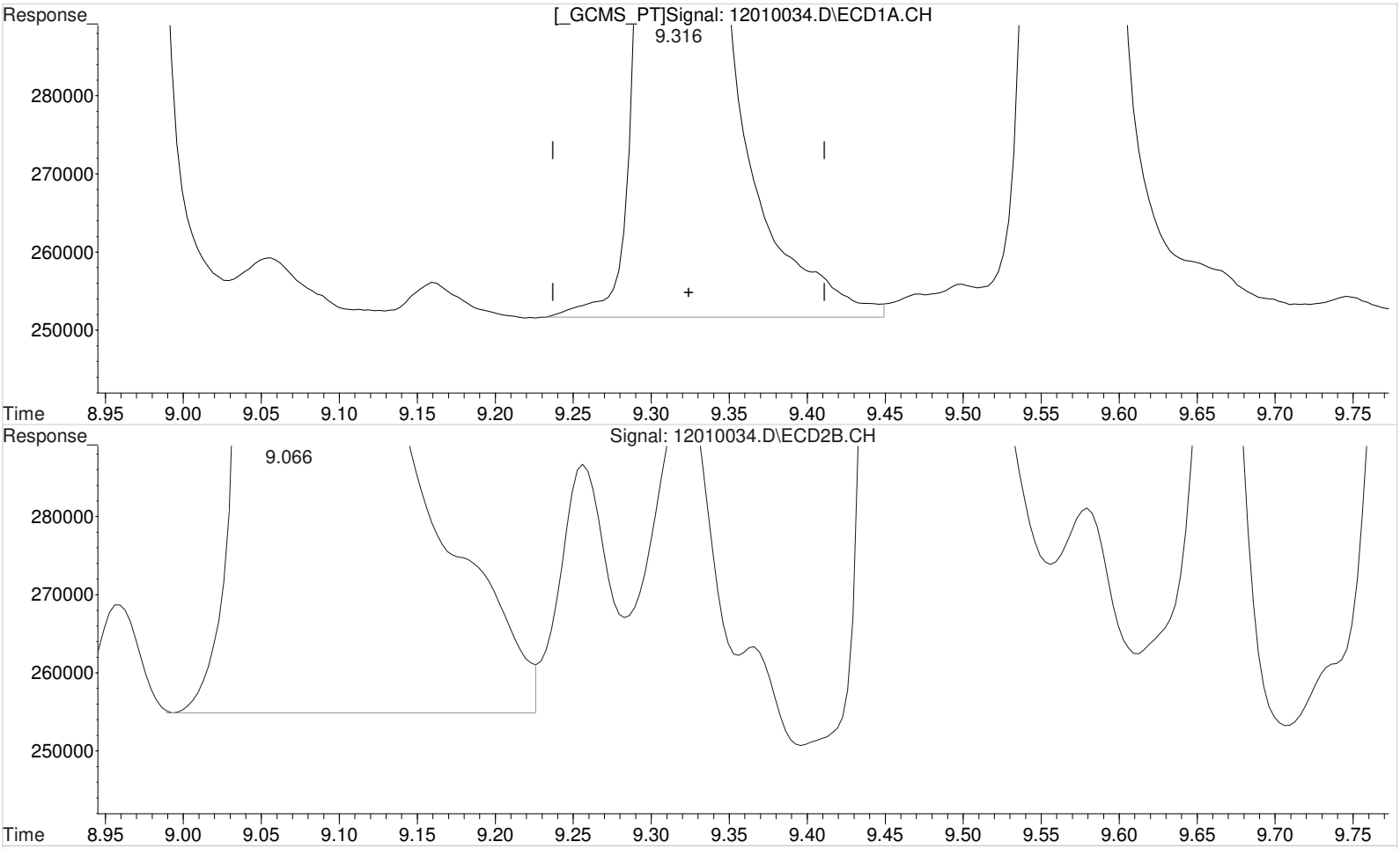
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(7) 2,4-D (m)

9.316min 46.133 ppb

response 979875

(7) 2,4-D #2 (m)

9.066min 64.594 ppb

response 3307125

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:56 am Operator: UA
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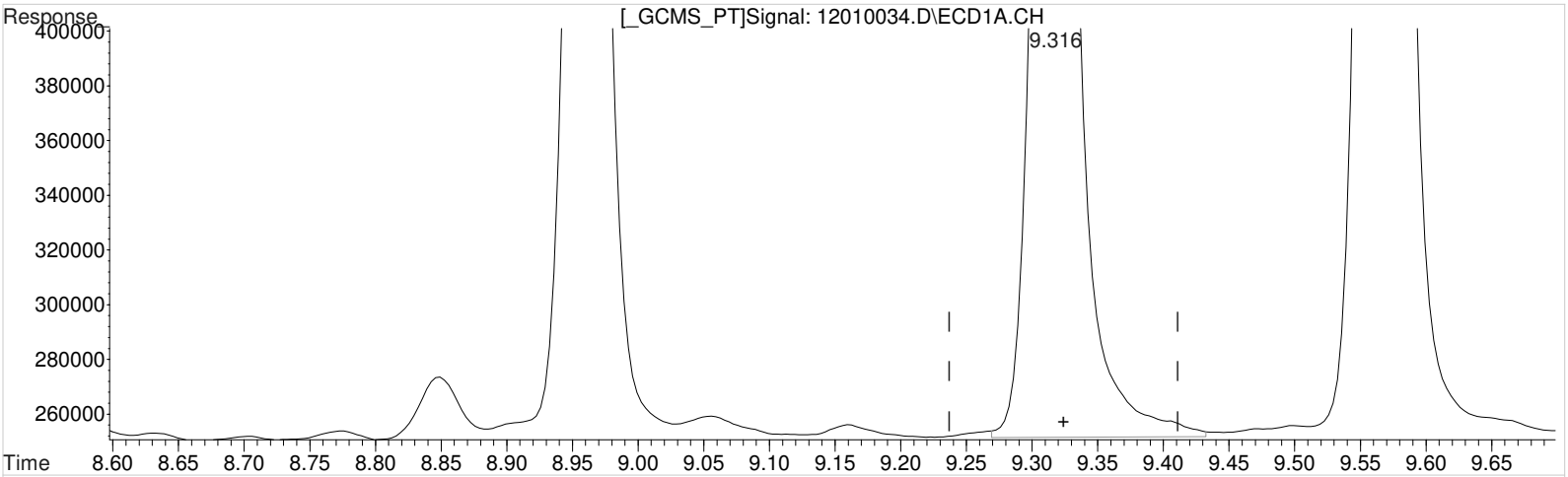
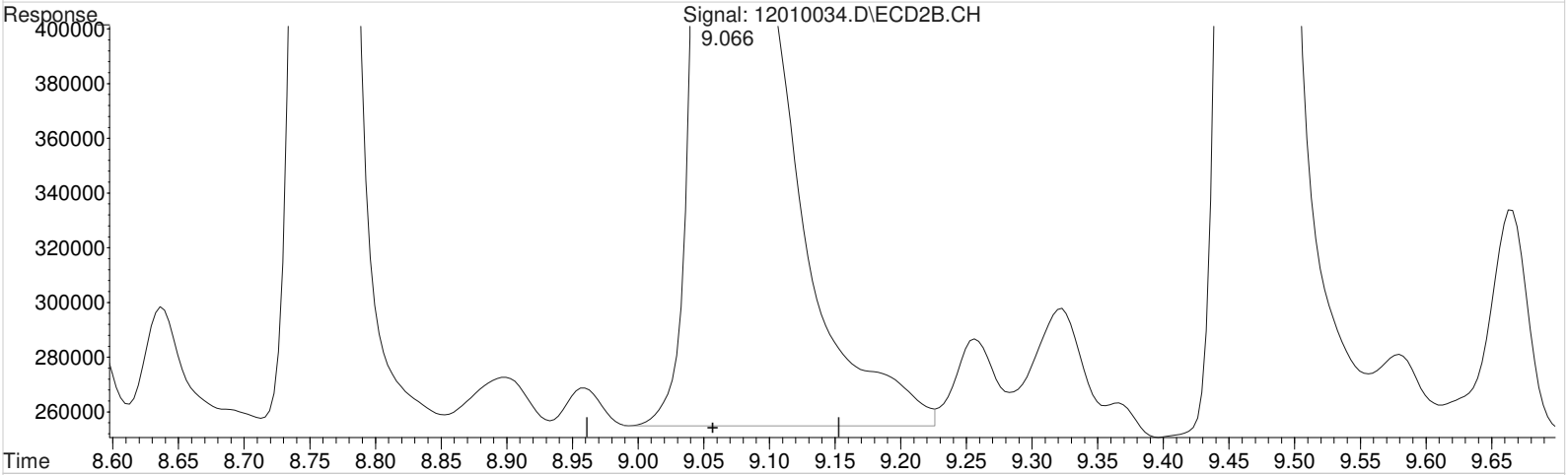
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.316min 45.953 ppb m

response 976047

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.066min 64.594 ppb

response 3307125

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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Quant Title : 103118_8151.m MJ215 CAL_KC1800
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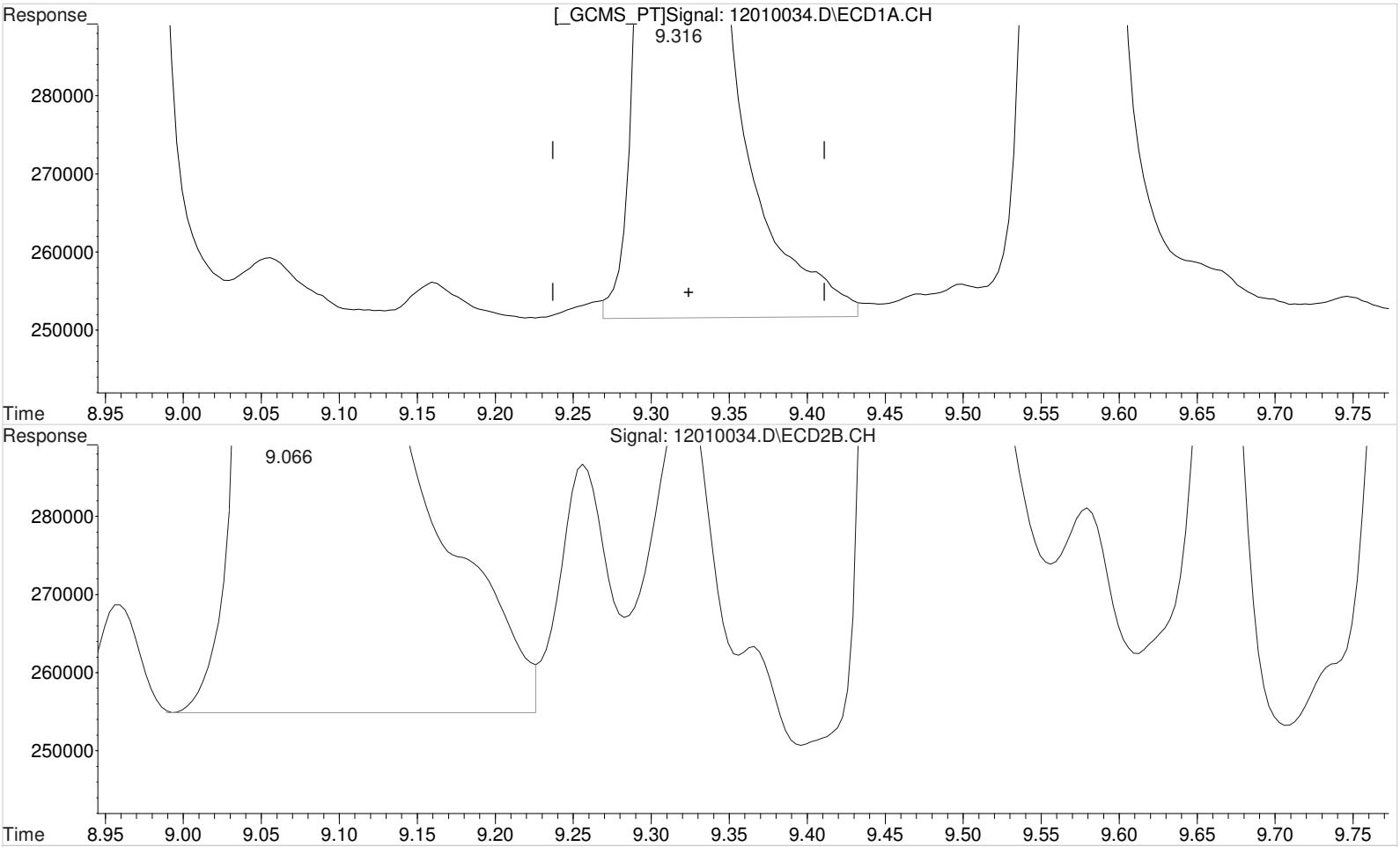
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(7) 2,4-D (m)

9.316min 45.953 ppb m

response 976047

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.066min 64.594 ppb

response 3307125

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010034.D Vial: 4
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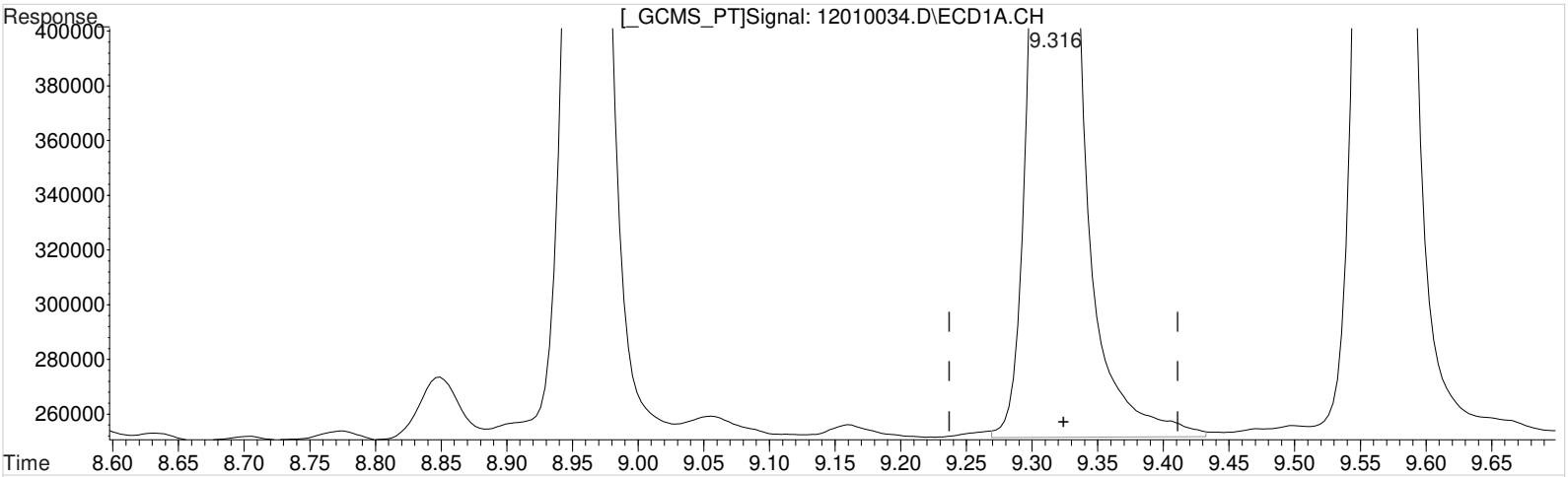
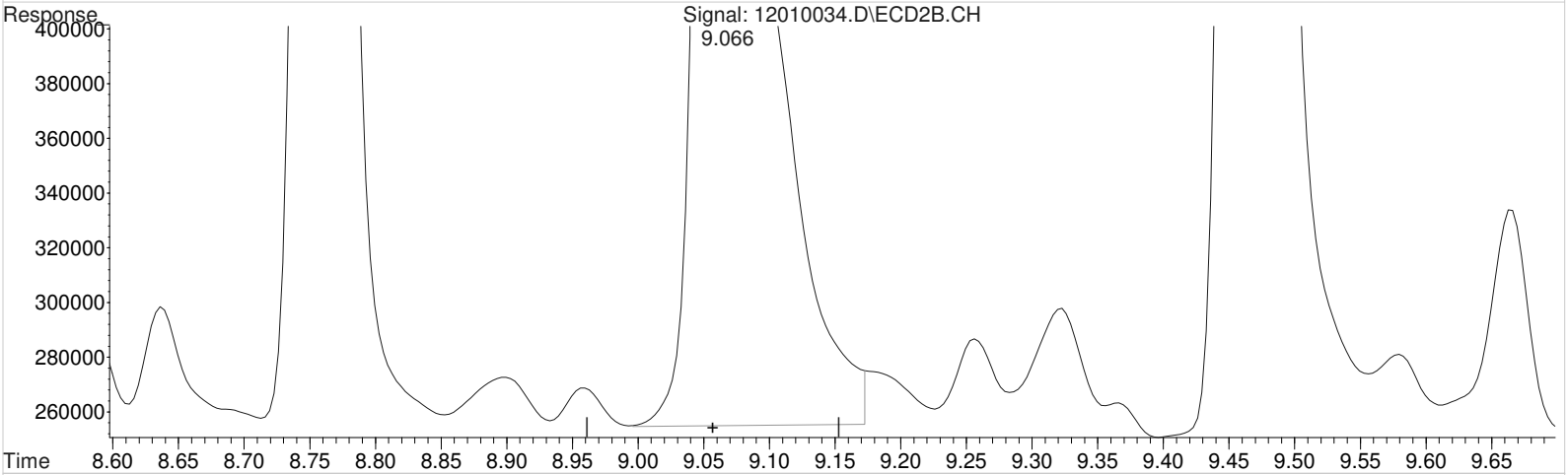
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.316min 45.953 ppb m

response 976047

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.066min 63.699 ppb m

response 3261310

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010045.D\
Lab ID: KQ2018489-01
RunType: LCS
Matrix: Sediment

Date Acquired: 12/2/20 10:07:00
Batch ID: 705654
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: _____

Printed: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010045.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 10:07:00	**Vial:**	27
Run Type:	LCS	**Dilution:**	1
Lab ID:	KQ2018489-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	KQ2018489
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1104020	4051267	60.672	95.779	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	10.24 -0.02	10.13 -0.01	4777853	14652062	51.001	72.178	85.0	120	**85.0**	Y
2,4-D	9.31 -0.01	9.05 -0.02	1020978	3598992	48.068	70.295	80.1	117	**80.1**	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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:07 am Operator: UA
Sample : KQ2018489-01LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 16:29:13 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...	7.979	7.812	1104020	4051267	60.672m	95.779m#
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.306	9.052	1020978	3598992	48.068m	70.295m#
8)	m	2,4,5-TP ...	10.242	10.126	4777853	14652062	51.001	72.178 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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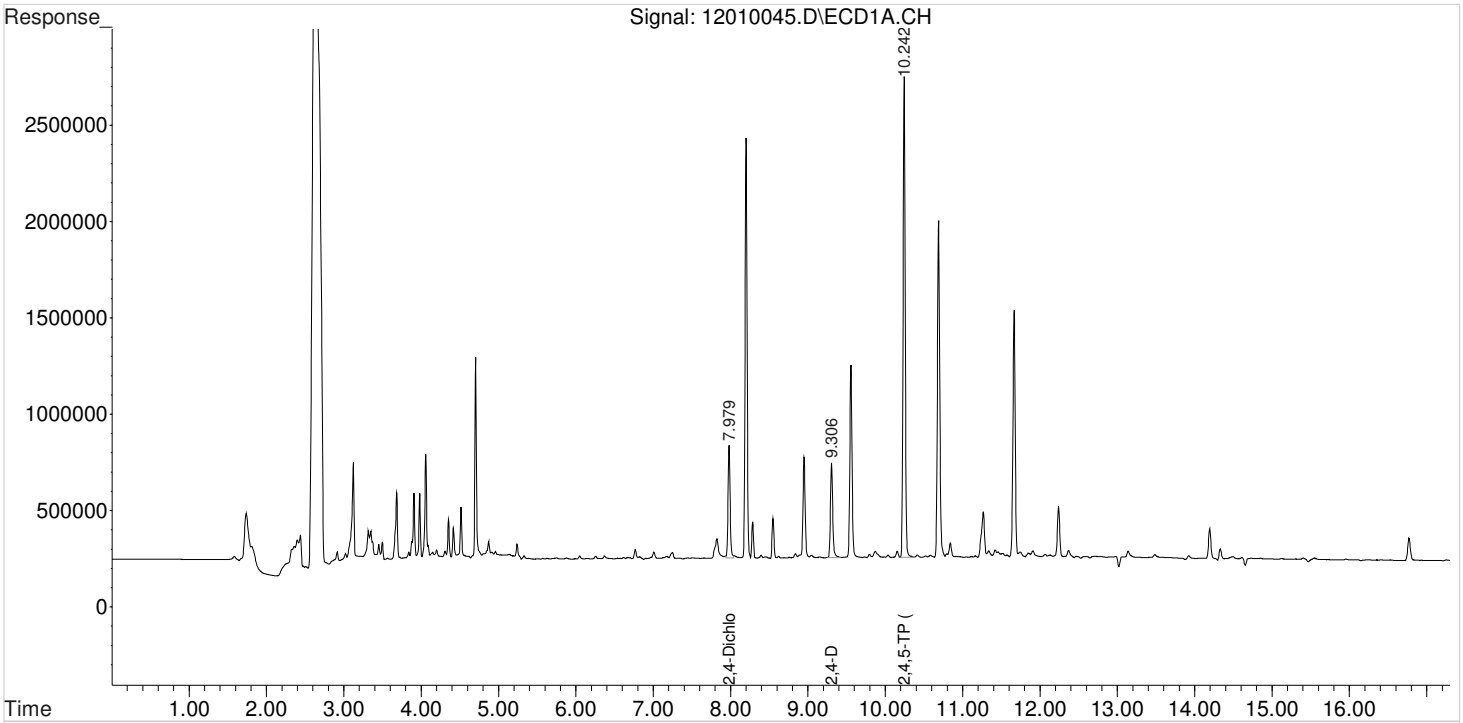
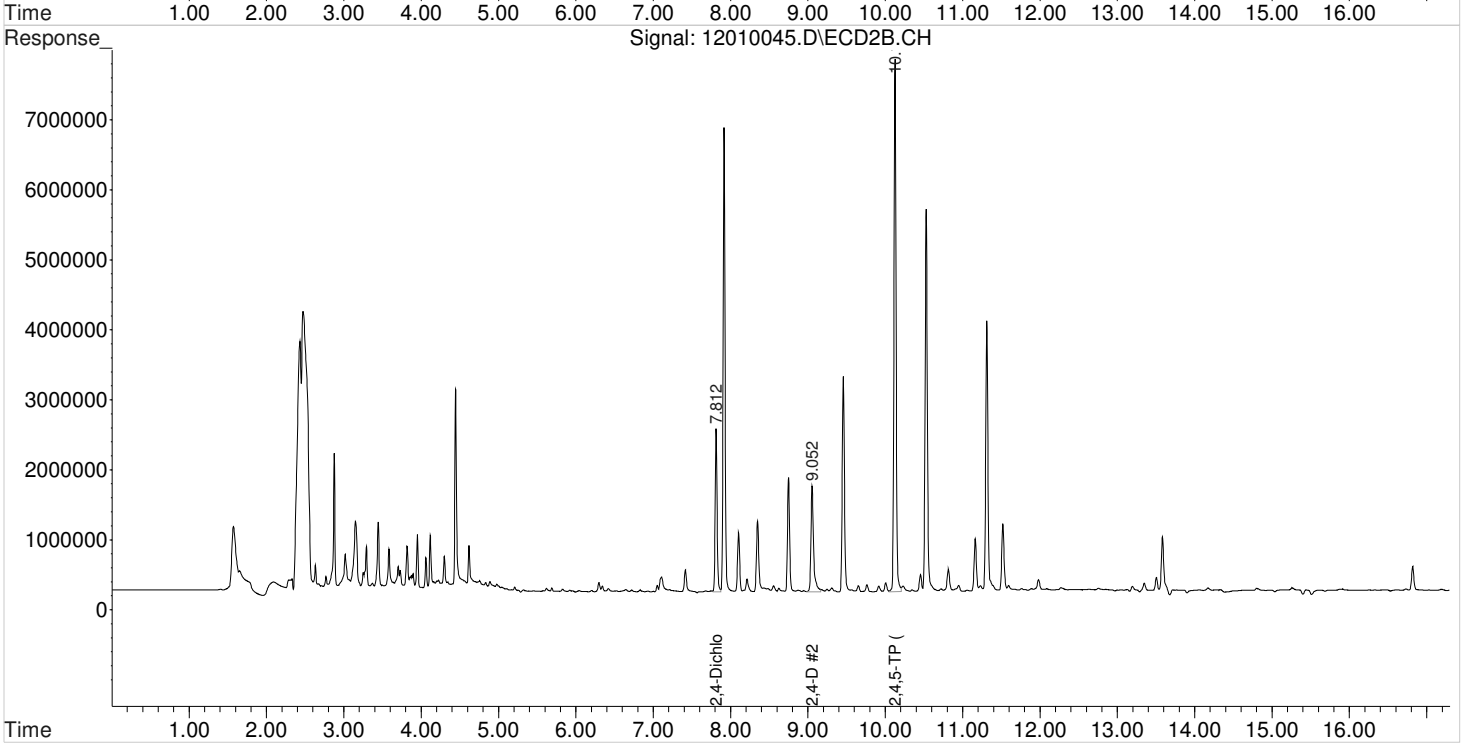
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
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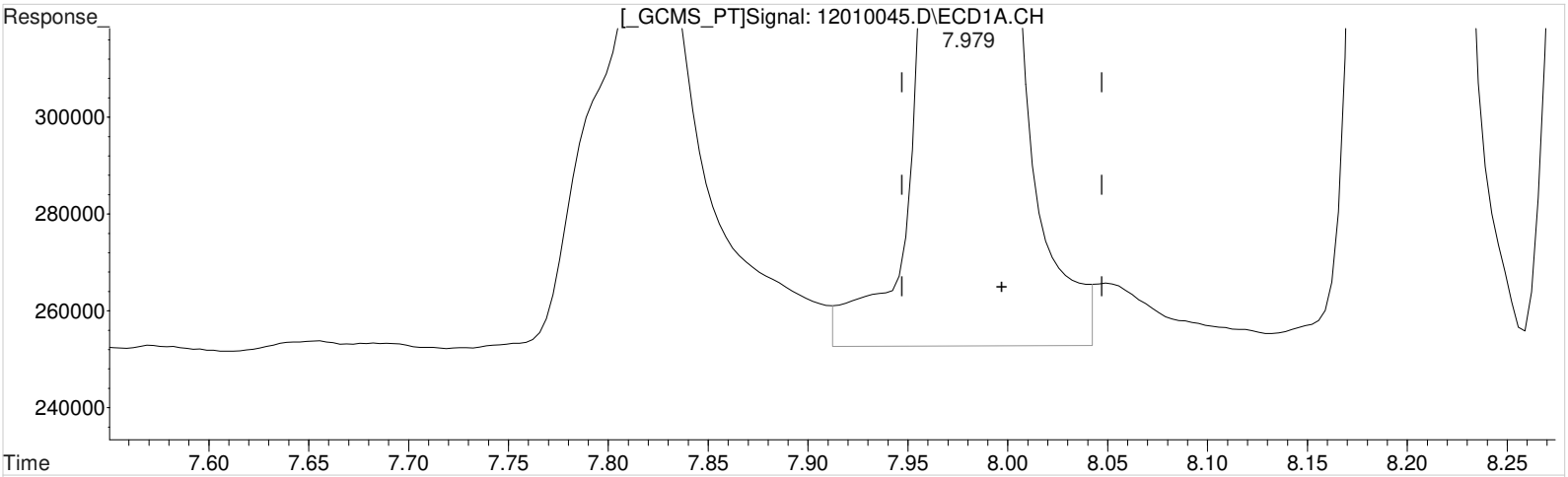

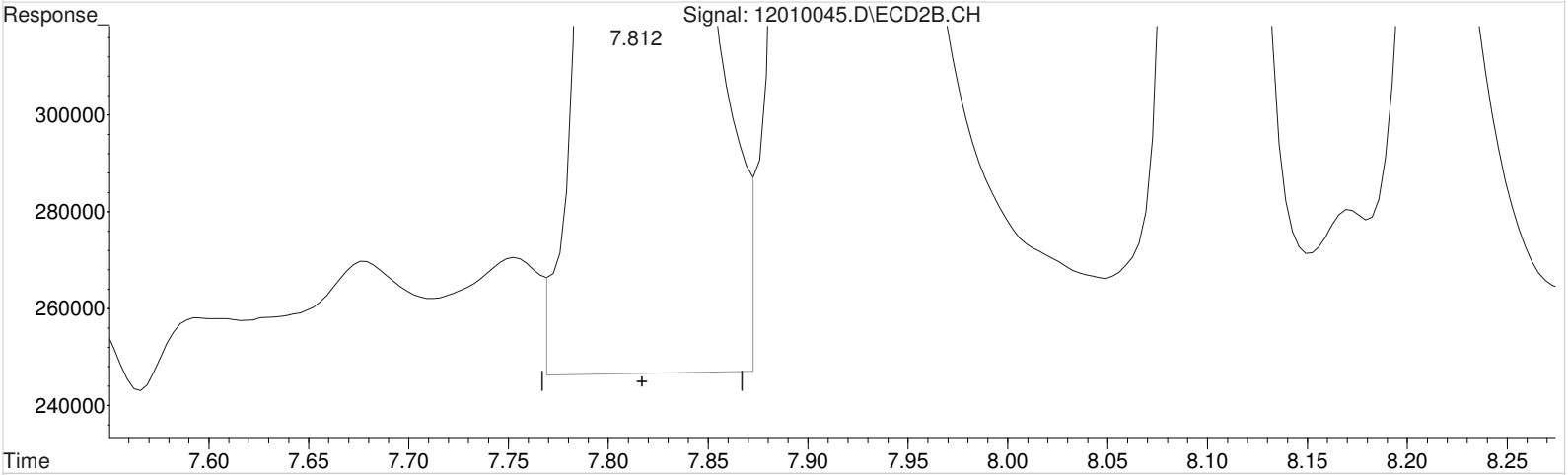

QEdit

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

7.979min 62.068 ppb

response 1129421

Manual Integration:

Before

12/02/20

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

7.812min 97.576 ppb

response 4127257

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
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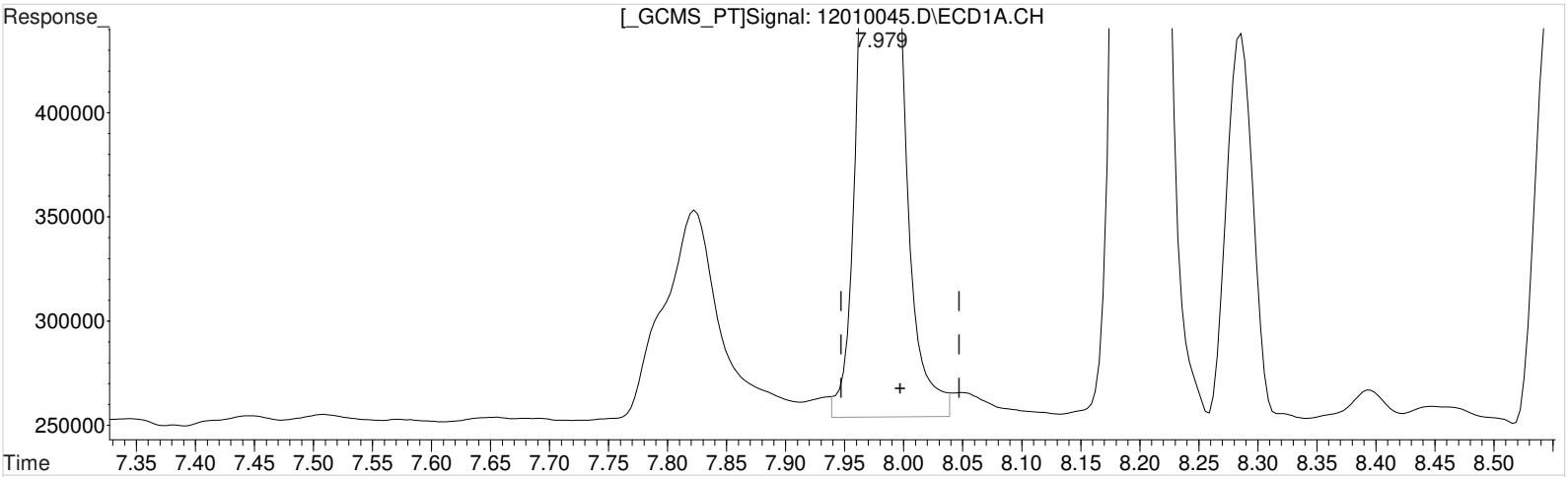

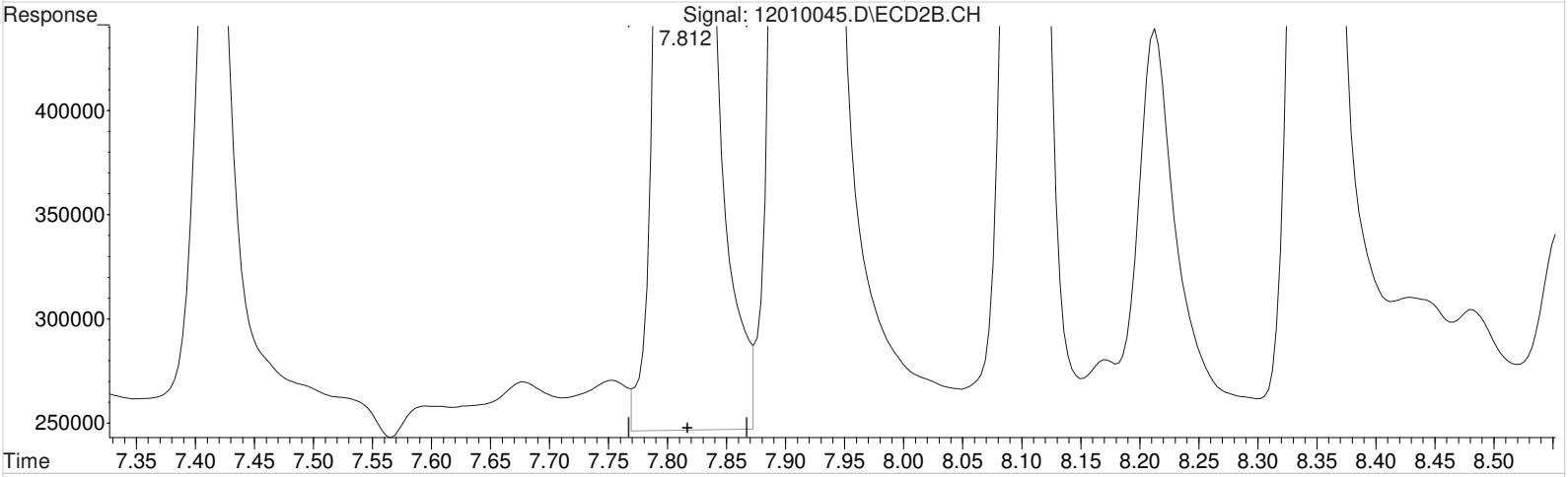

QEdit

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

7.979min 60.672 ppb m

response 1104020

Manual Integration:

Before

12/02/20

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

7.812min 97.576 ppb

response 4127257

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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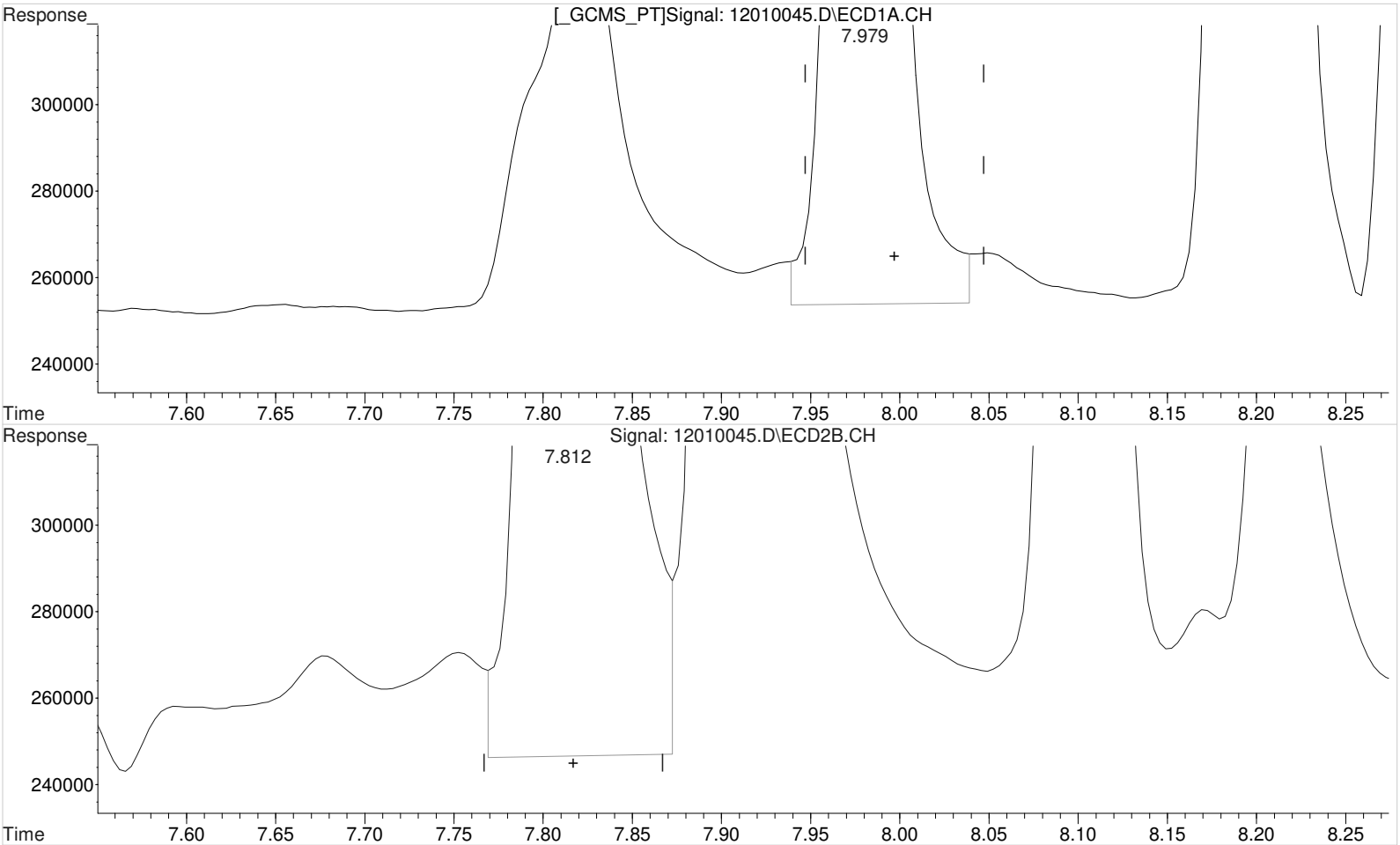
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

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

7.979min 60.672 ppb m

response 1104020

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.812min 97.576 ppb

response 4127257

(+) = Expected Retention Time

Quantitation Report (Qedit)

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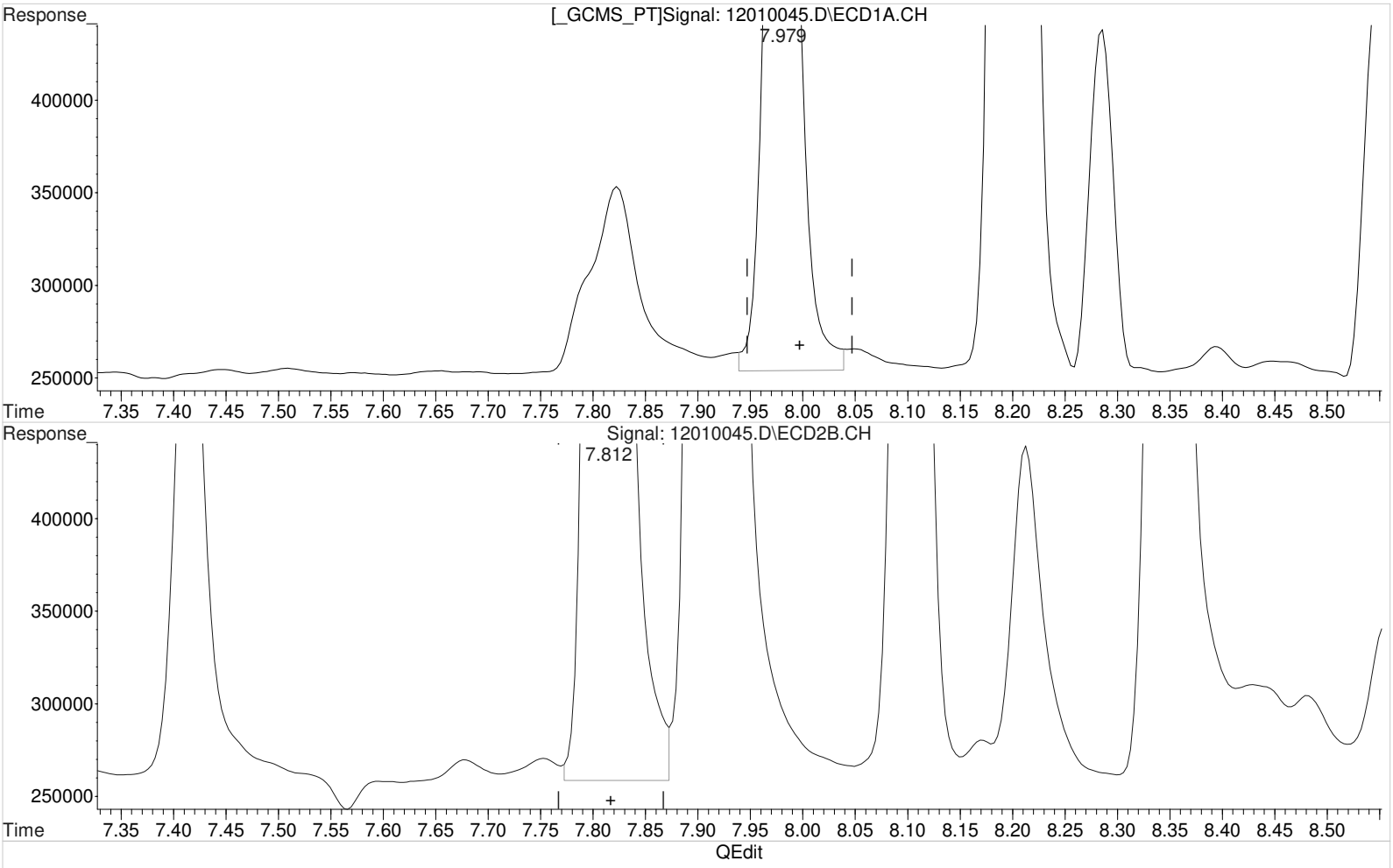

QEdit

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

7.979min 60.672 ppb m

response 1104020

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.812min 95.779 ppb m

response 4051267

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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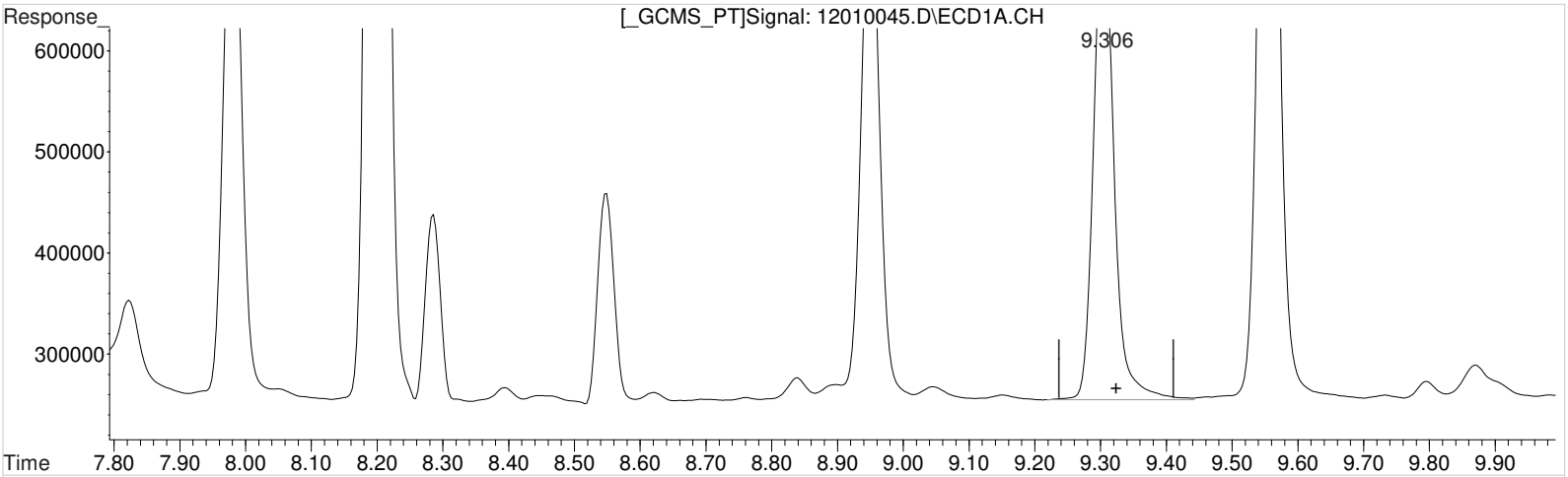
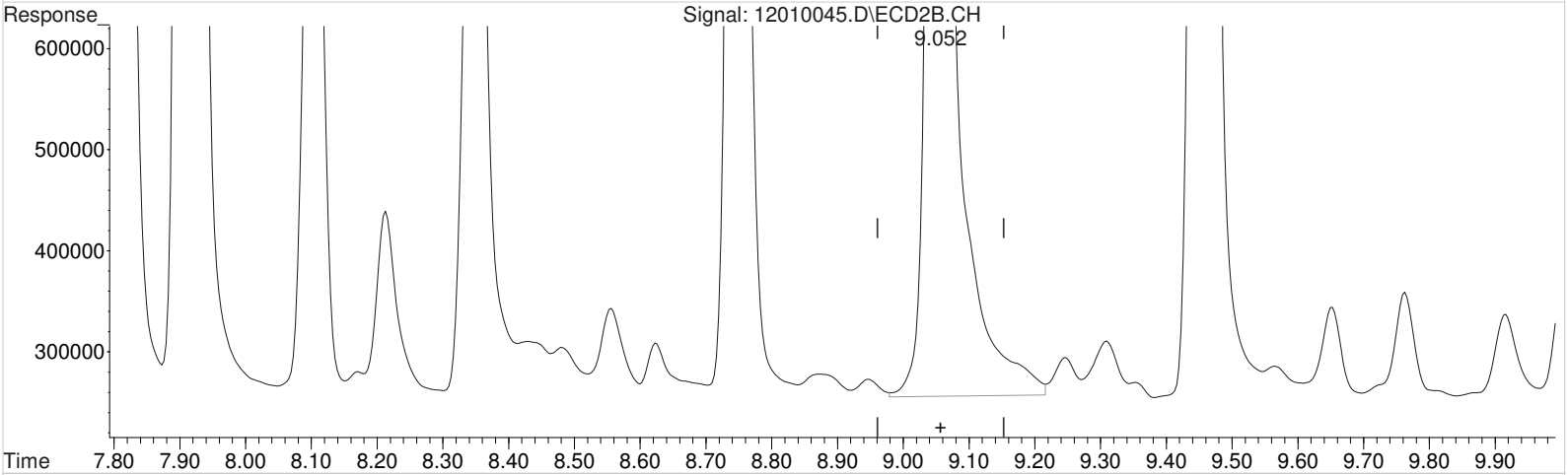
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:20 2020
Quant Results File: 102120_8151.RES

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





QEdit

(7) 2,4-D (m)

9.306min 48.845 ppb

response 1037474

(7) 2,4-D #2 (m)

9.052min 72.142 ppb

response 3693590

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

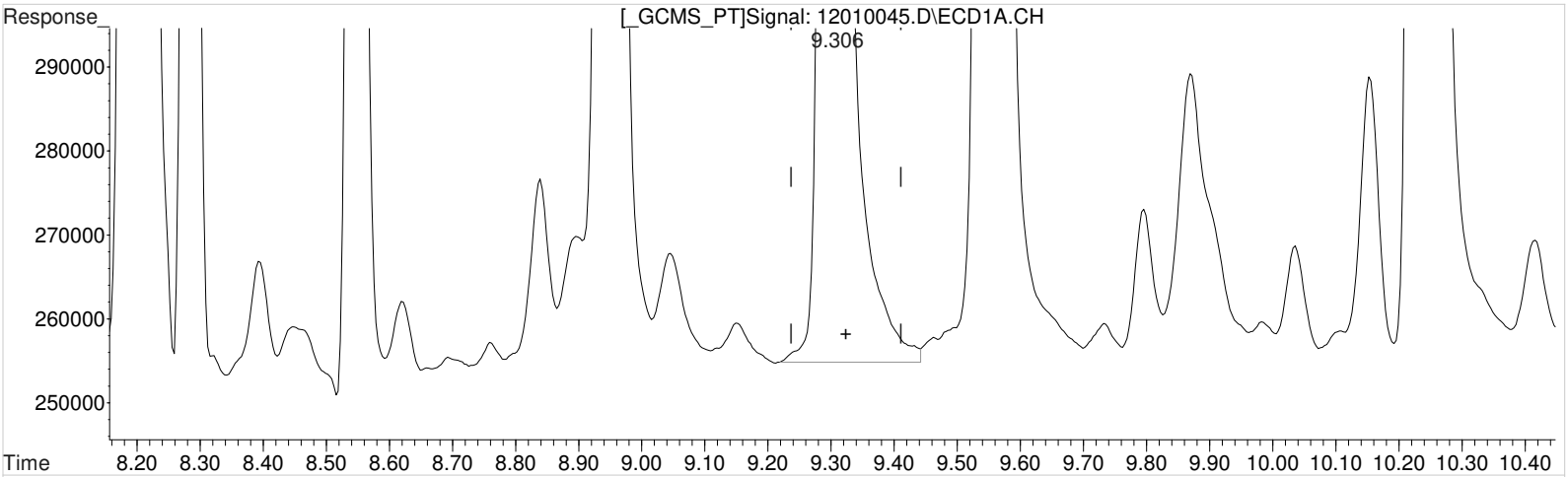
Quantitation Report (Qedit)

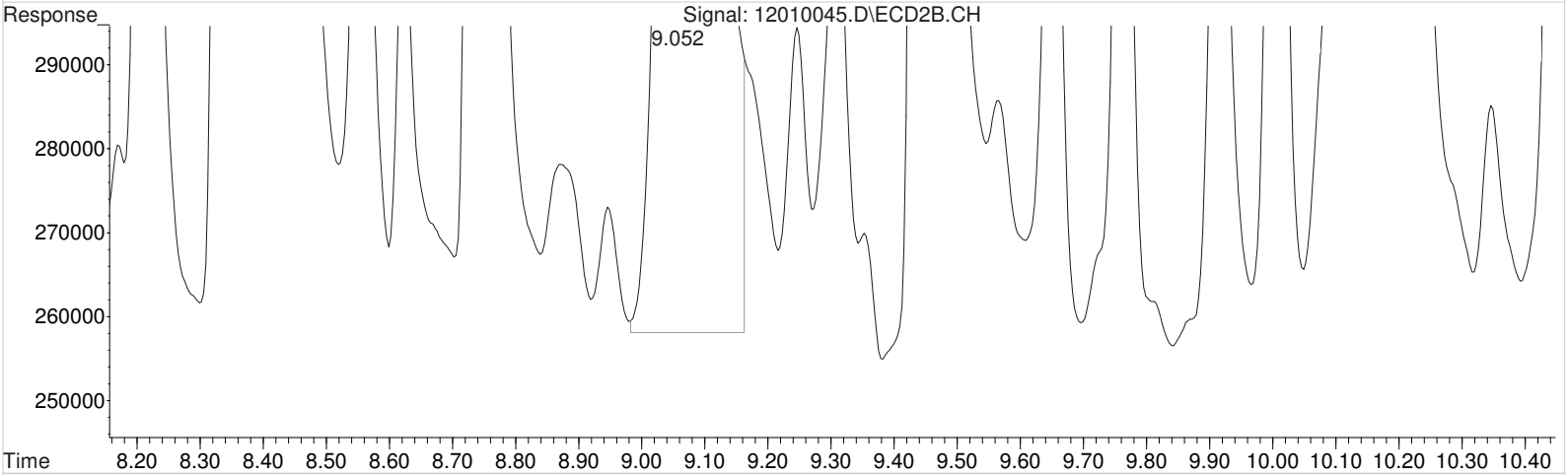
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:07 am Operator: UA
Sample : KQ2018489-01LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:20 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





QEdit

(7) 2,4-D (m)

9.306min 48.845 ppb

response 1037474

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.052min 70.295 ppb m

response 3598992

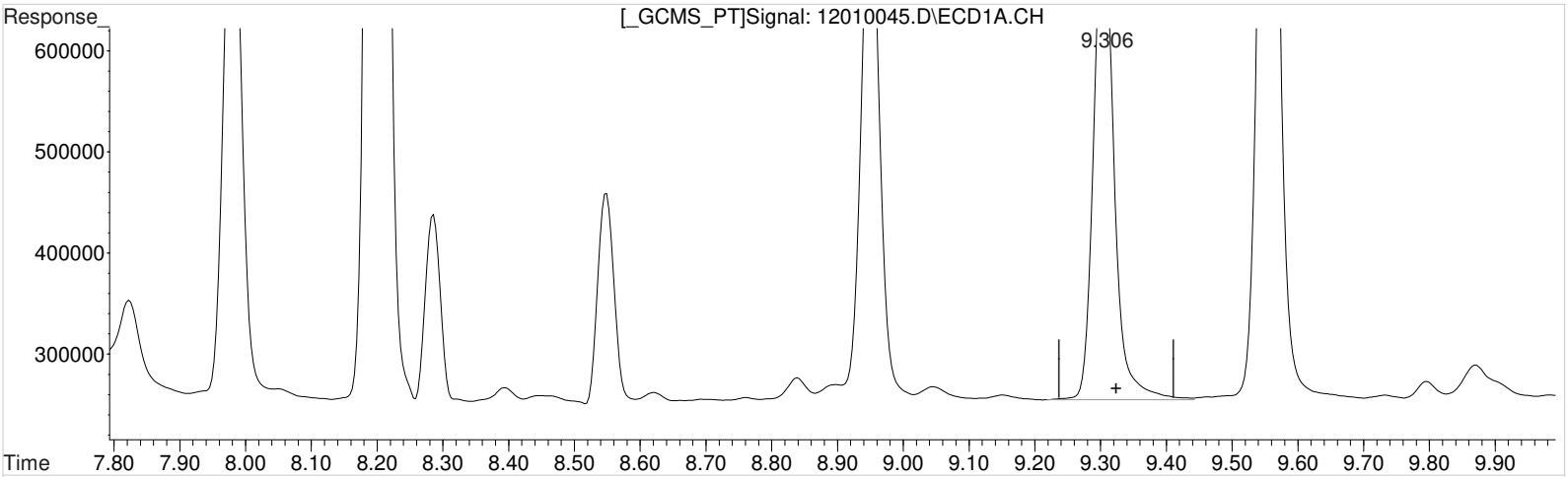
(+) = Expected Retention Time

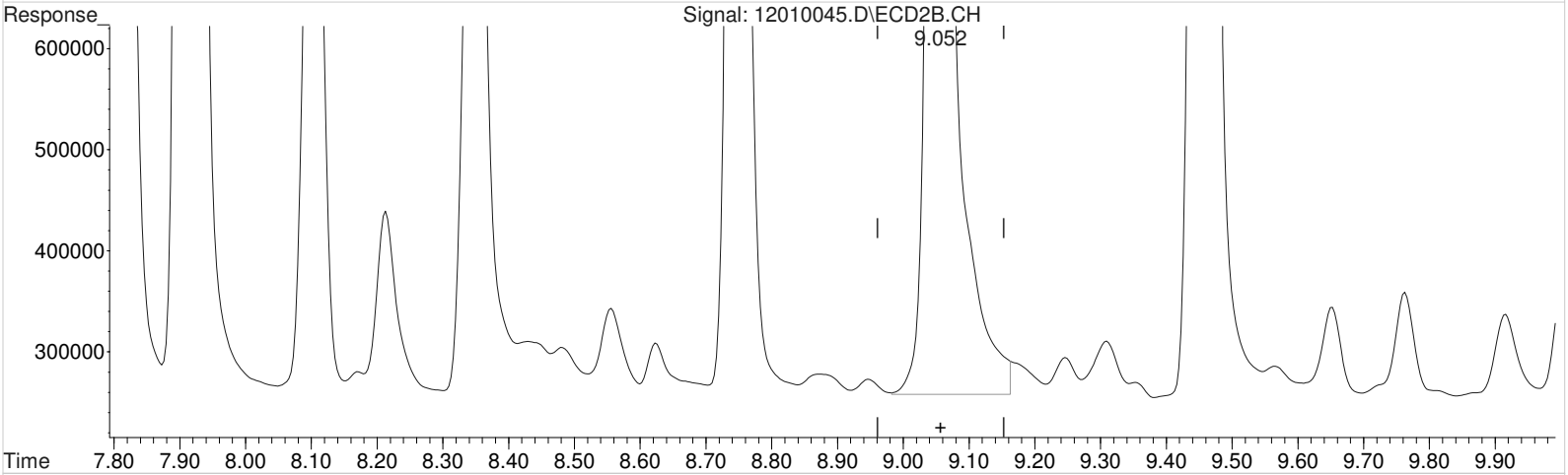
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:07 am Operator: UA
Sample : KQ2018489-01LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:20 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





QEdit

(7) 2,4-D (m)

9.306min 48.845 ppb

response 1037474

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.052min 70.295 ppb m

response 3598992

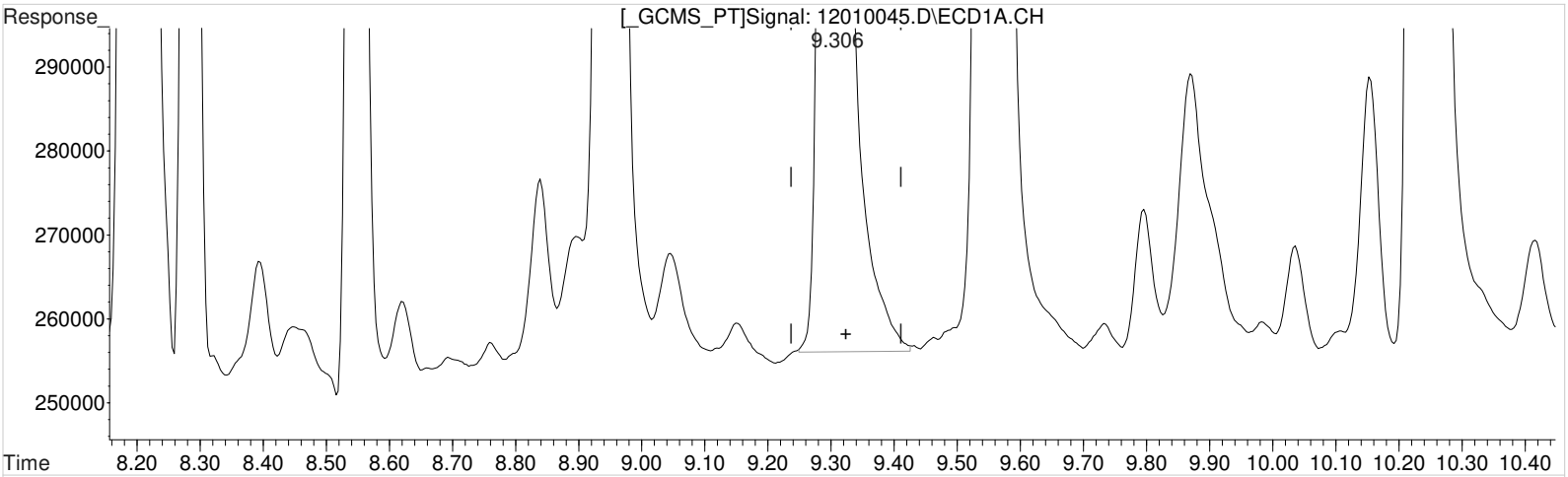
(+) = Expected Retention Time

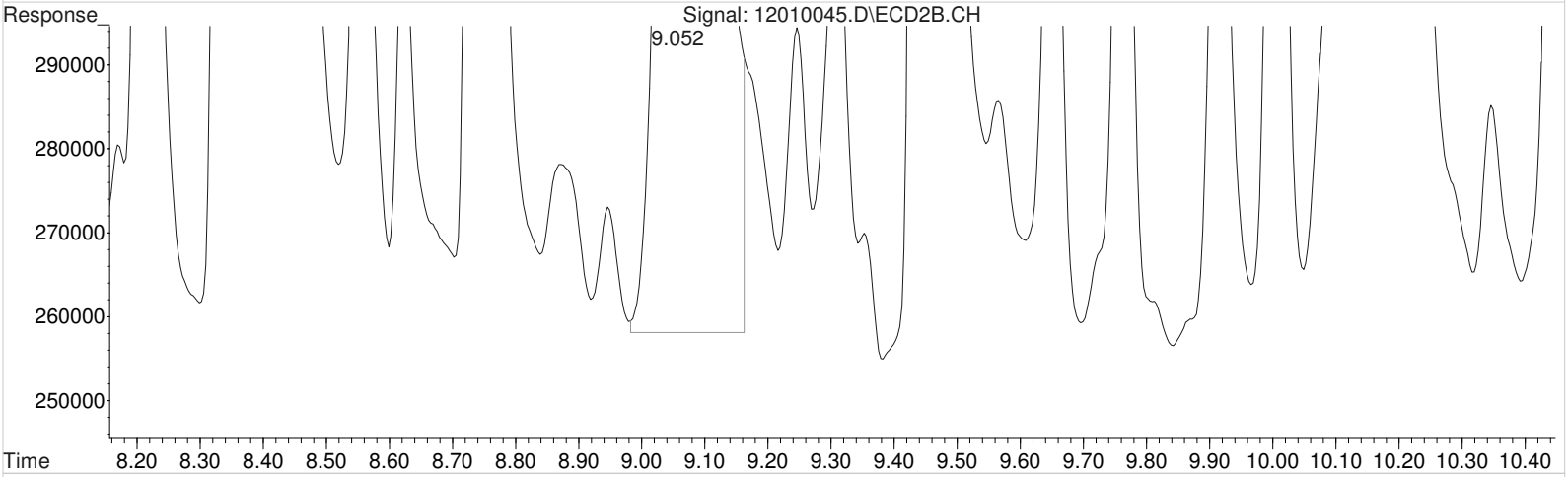
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010045.D Vial: 52
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 10:07 am Operator: UA
Sample : KQ2018489-01LCS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 14:32:20 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





QEdit

(7) 2,4-D (m)

9.306min 48.068 ppb m

response 1020978

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.052min 70.295 ppb m

response 3598992

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010066.D\
Lab ID: KQ2018489-03
RunType: MS
Matrix: Sediment

Date Acquired: 12/2/20 18:08:00
Batch ID: 705654
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010066.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 18:08:00	**Vial:**	44
Run Type:	MS	**Dilution:**	1
Lab ID:	KQ2018489-03	**Raw Units:**	ppb

Bottle ID:	K2010456-022.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	KQ2018489
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	1144618	4436992	62.903	104.899	63	105	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	10.24	10.12	4995088	15773772	53.320	77.704^{CCV}	102	149	**102**	Y
2,4-D	9.30	9.05	1050198	3495639	49.444	68.276	94.9	131	**94.9**	Y

Prep Amount:	30.095 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.60

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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:53:45 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...	7.975	7.809	1144618	4436992	62.903m	104.899 #
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.298	9.052	1050198	3495639	49.444m	68.276 #
8) m	2,4,5-TP ...	10.238	10.119	4995088	15773772	53.320	77.704 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

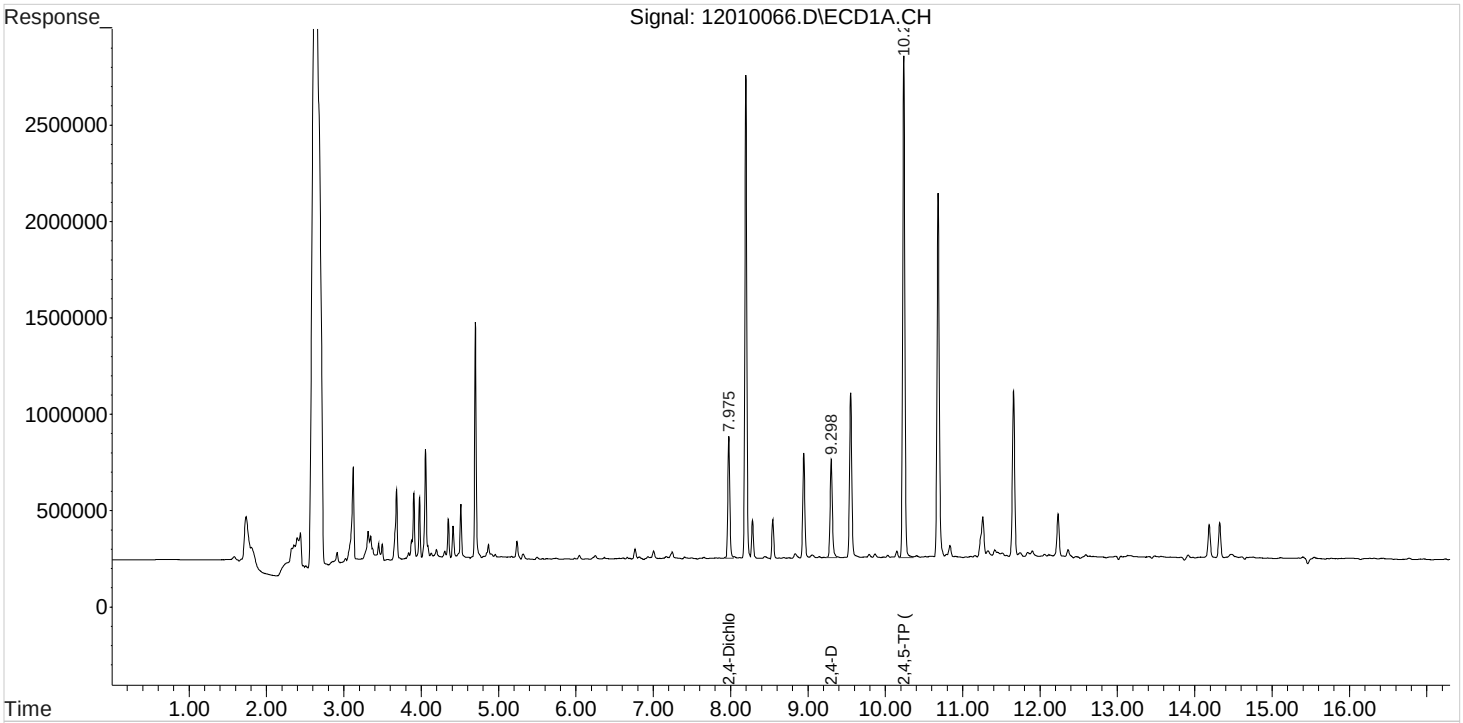
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

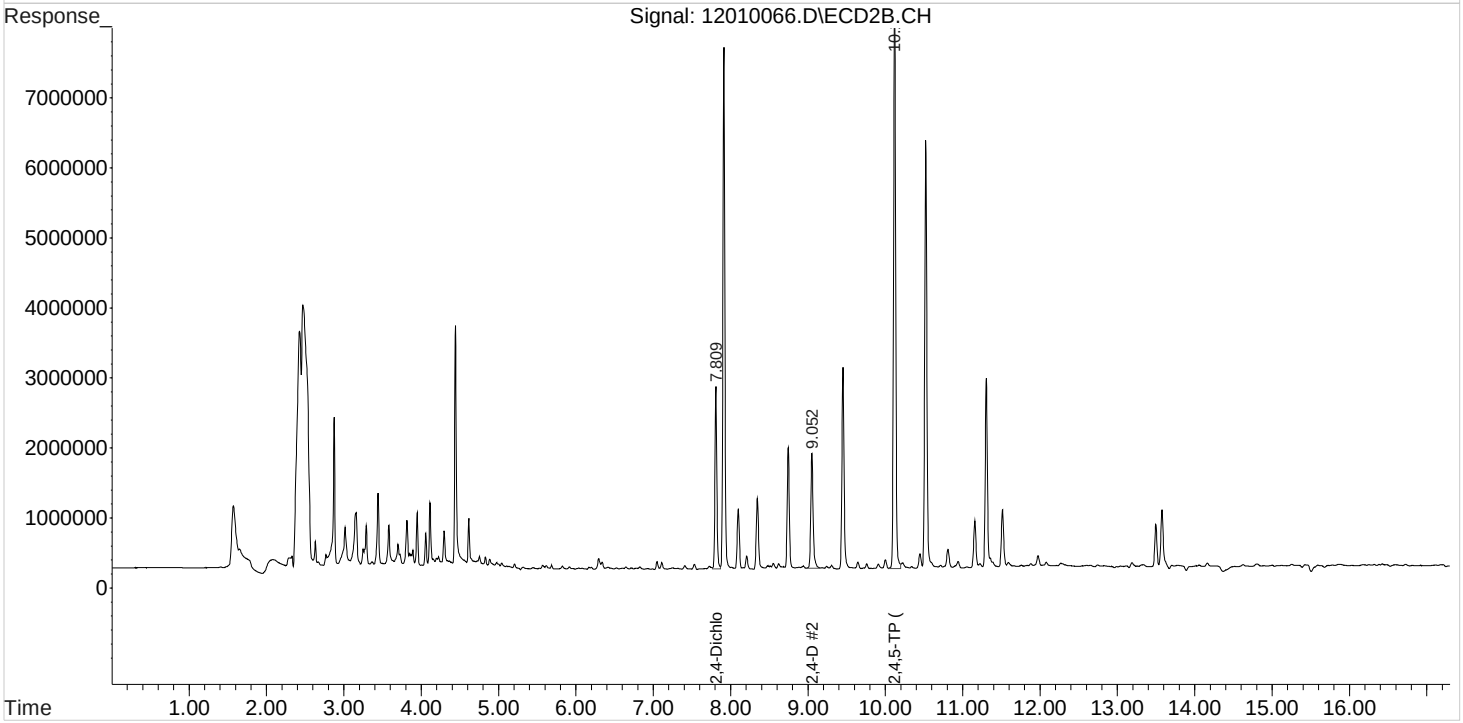
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:53:45 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



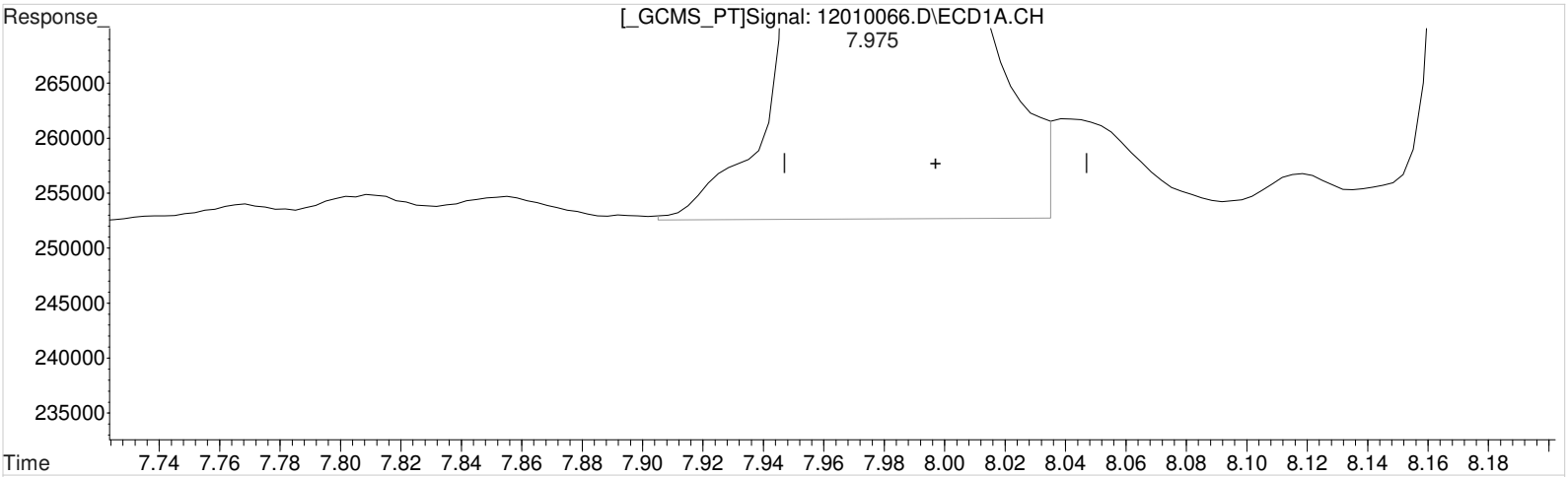


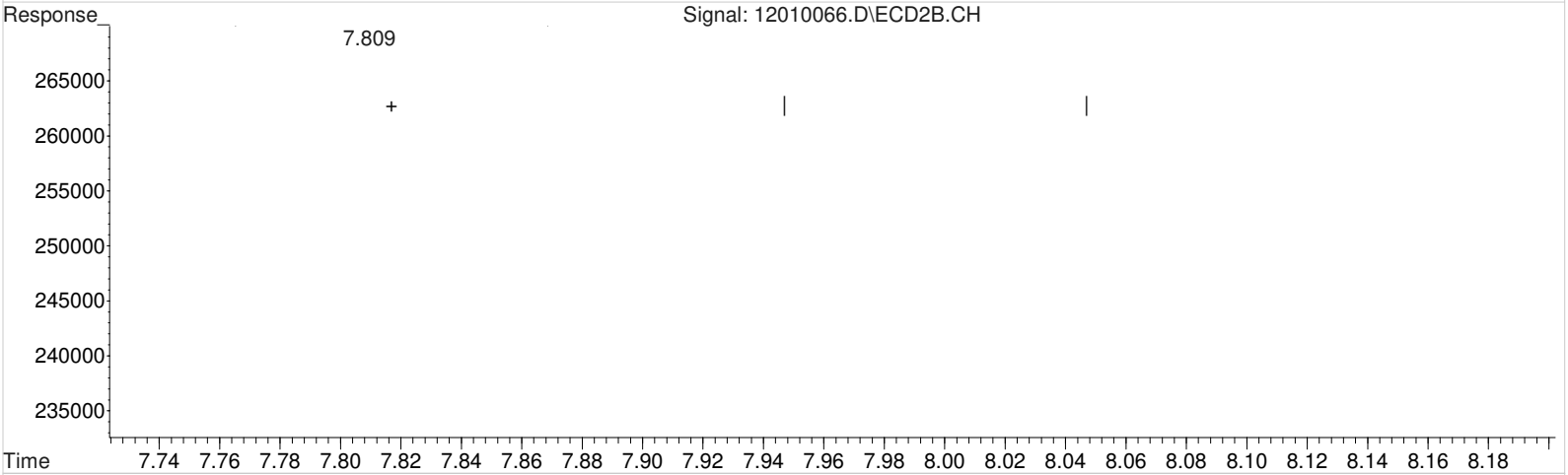
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:09 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





QEdit

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

7.975min 63.330 ppb

response 1152397

Manual Integration:

Before

12/02/20

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

7.809min 104.899 ppb

response 4436992

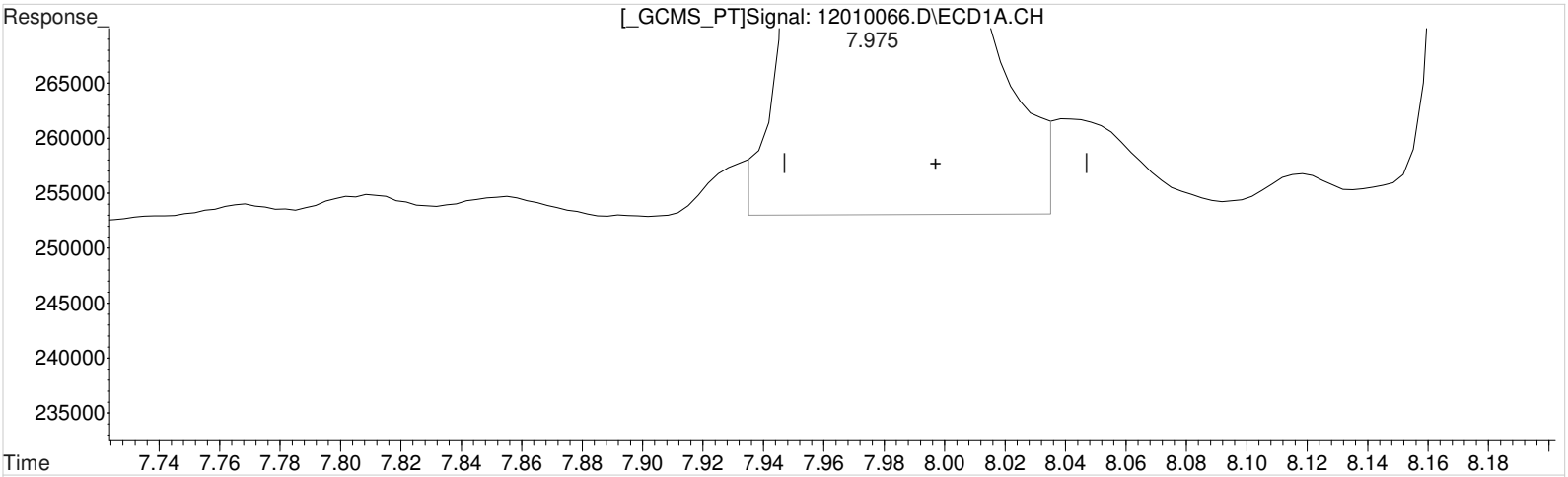
(+) = Expected Retention Time

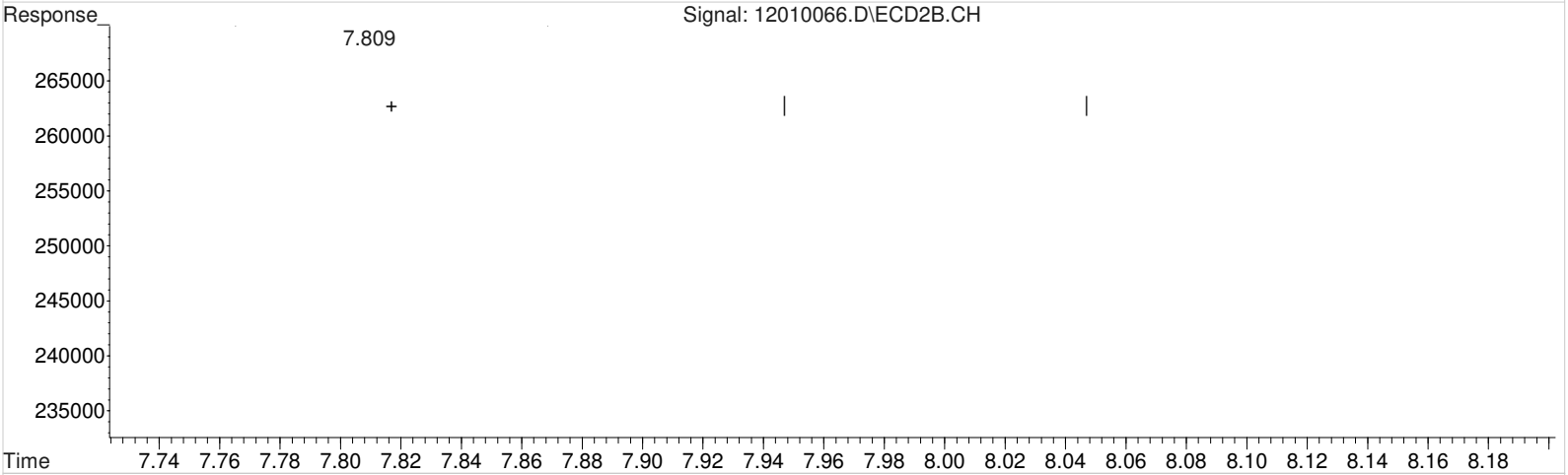
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:09 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





QEdit

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

7.975min 62.903 ppb m

response 1144618

Manual Integration:

After

Baseline/Shoulder

12/02/20

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

7.809min 104.899 ppb

response 4436992

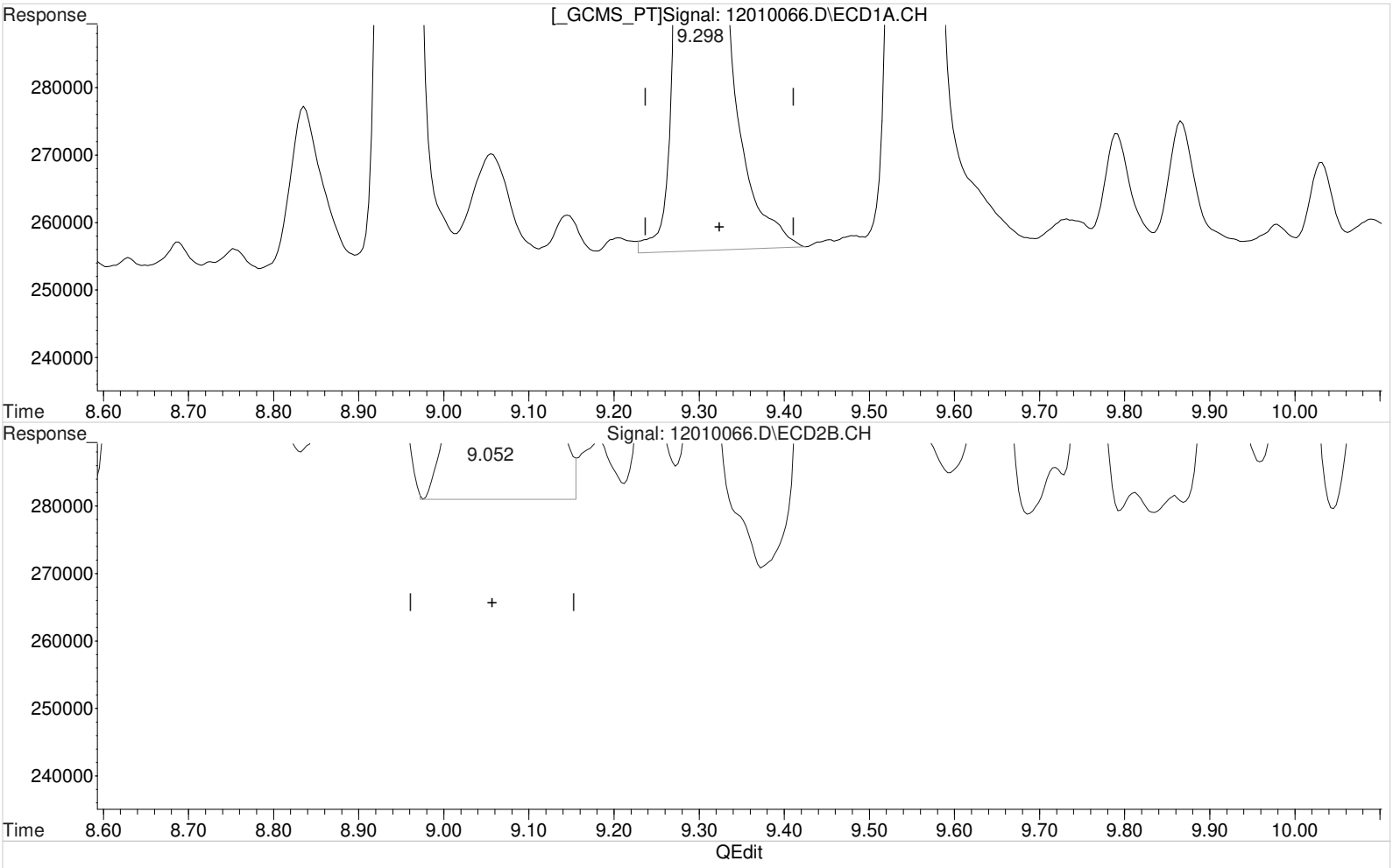
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:09 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



QEdit

(7) 2,4-D (m)

9.298min 49.927 ppb

response 1060466

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.052min 68.276 ppb

response 3495639

(+) = Expected Retention Time

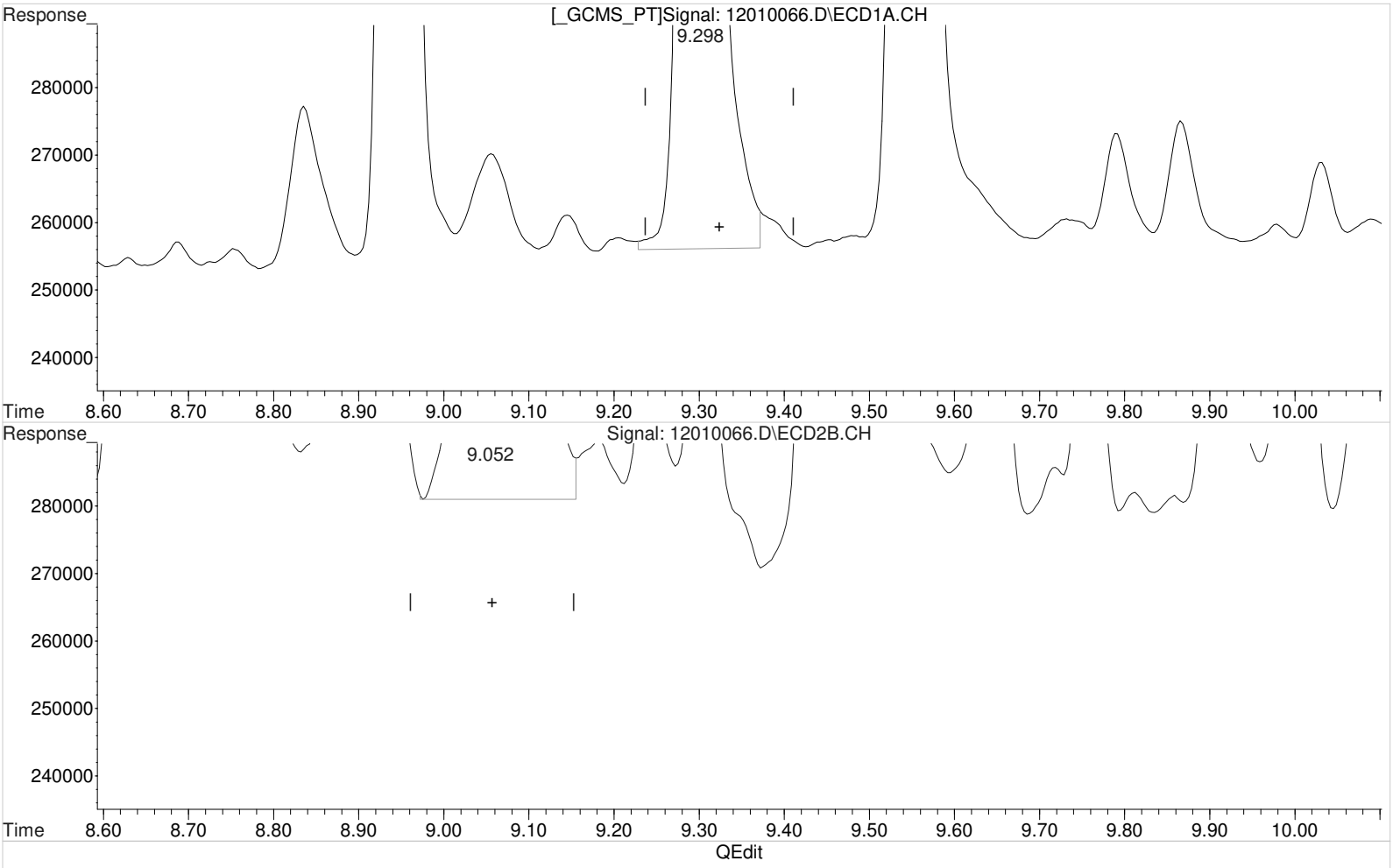
Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010066.D Vial: 69
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:08 pm Operator: UA
Sample : KQ2018489-03MS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:46:09 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



QEdit

(7) 2,4-D (m)

9.298min 49.444 ppb m

response 1050198

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.052min 68.276 ppb

response 3495639

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010067.D\
Lab ID: KQ2018489-04
RunType: DMS
Matrix: Sediment

Date Acquired: 12/2/20 18:31:00
Batch ID: 705654
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010067.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 18:31:00	**Vial:**	45
Run Type:	DMS	**Dilution:**	1
Lab ID:	KQ2018489-04	**Raw Units:**	ppb

Bottle ID:	K2010456-022.01	**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**	369679	**Report Group:**	KQ2018489
Analysis	8151A	**Prep Method:**	Method		
		Prep Date:	11/12/20		

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	7.97 -0.01	7.81	1161500	4333302	63.831	102.447	64	102	64	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	10.23 -0.01	10.12	4933236	15512833	52.660	76.419^{CCV}	101	147	**101**	Y
2,4-D	9.29 -0.01	9.05	1043148	3462464	49.112	67.628	94.5	130	**94.5**	Y

Prep Amount:	30.017 g	**Dilution:**	1
Prep Final Amount:	50.00 mL	**Basis Factor:**	86.60

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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:59:46 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...	7.975	7.808	1161500	4333302	63.831	102.447	#
	Target Compounds							
1) m	Dalapon	3.118	2.871	1021912	2604674	42.126m	53.913m	#
3) m	Dicamba	8.195	7.908	4217922	12423869	60.429	83.824	#
4) m	MCPP	8.278	8.098	318232	1621862	7356.866m	9790.557	#
5) m	MCPA	8.541	8.341	364125	2129365	6218.775	9375.405	#
6) m	Dichloroprop	8.941	8.741	1020507	3209485	54.725	76.938	#
7) m	2,4-D	9.295	9.048	1043148	3462464	49.112	67.628	#
8) m	2,4,5-TP ...	10.235	10.118	4933236	15512833	52.660	76.419	#
9) m	2,4,5-T	10.681	10.518	3672067	11515174	44.505	60.173	#
10) m	2,4-DB	11.258	11.155	653398	1466635	63.688	50.546	
11) m	Dinoseb	11.658	11.305	2212447	6175501	35.762	45.157	#

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

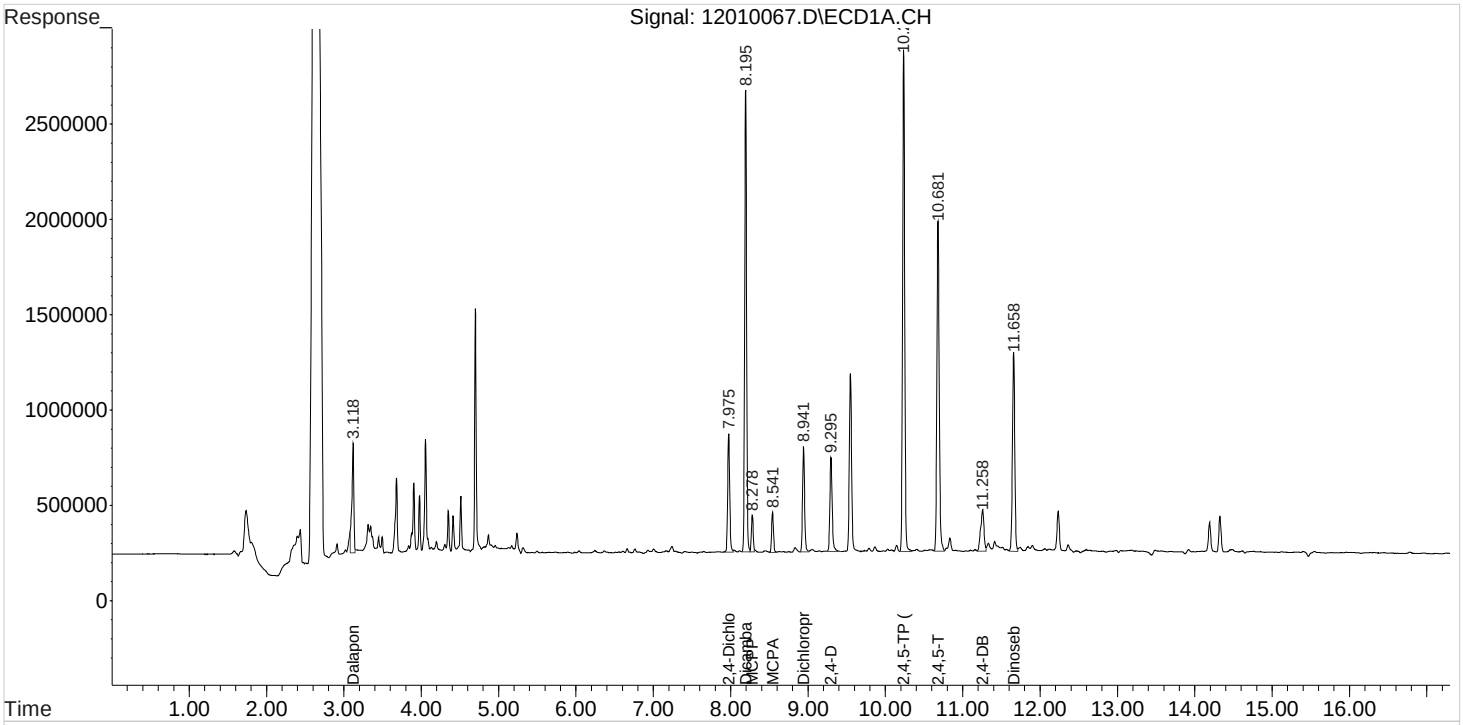
Quantitation Report (QT Reviewed)

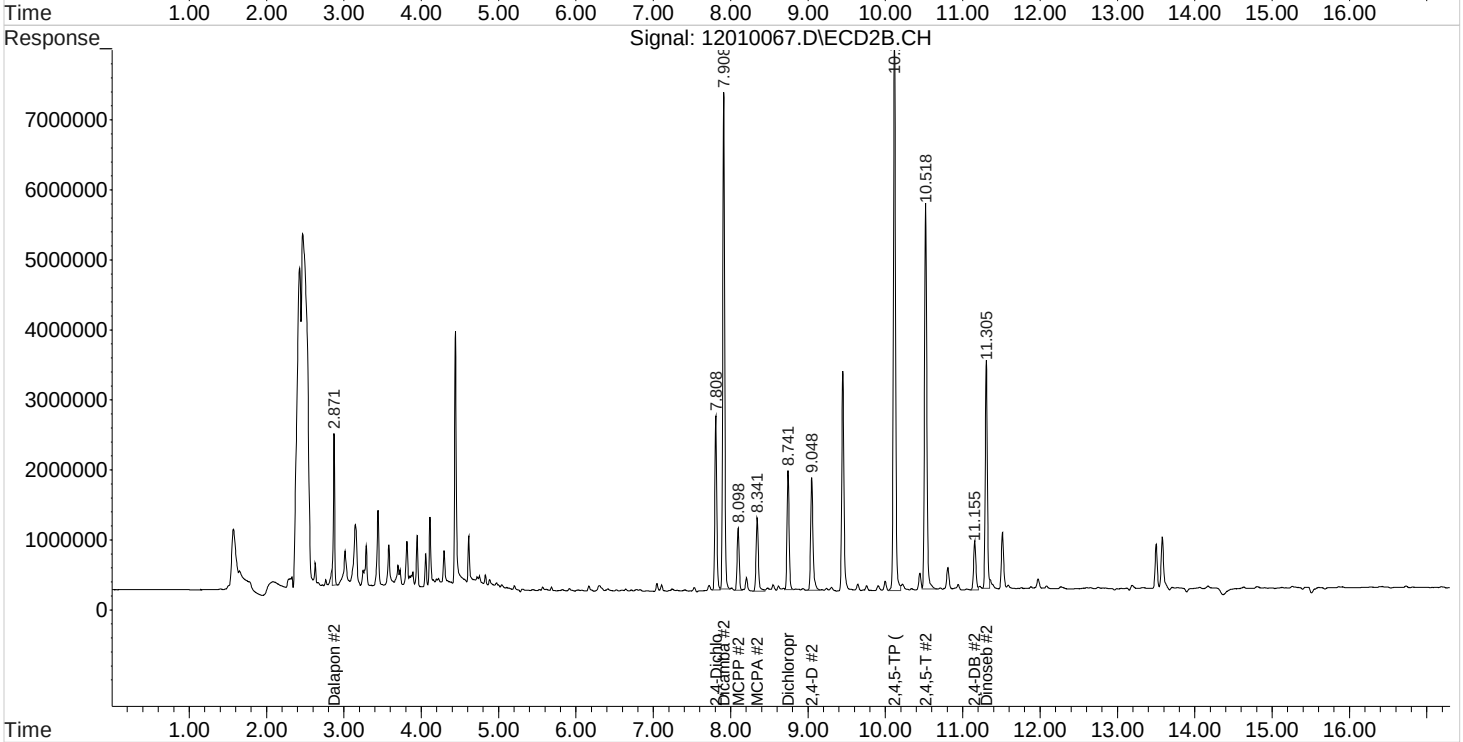
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:59:46 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





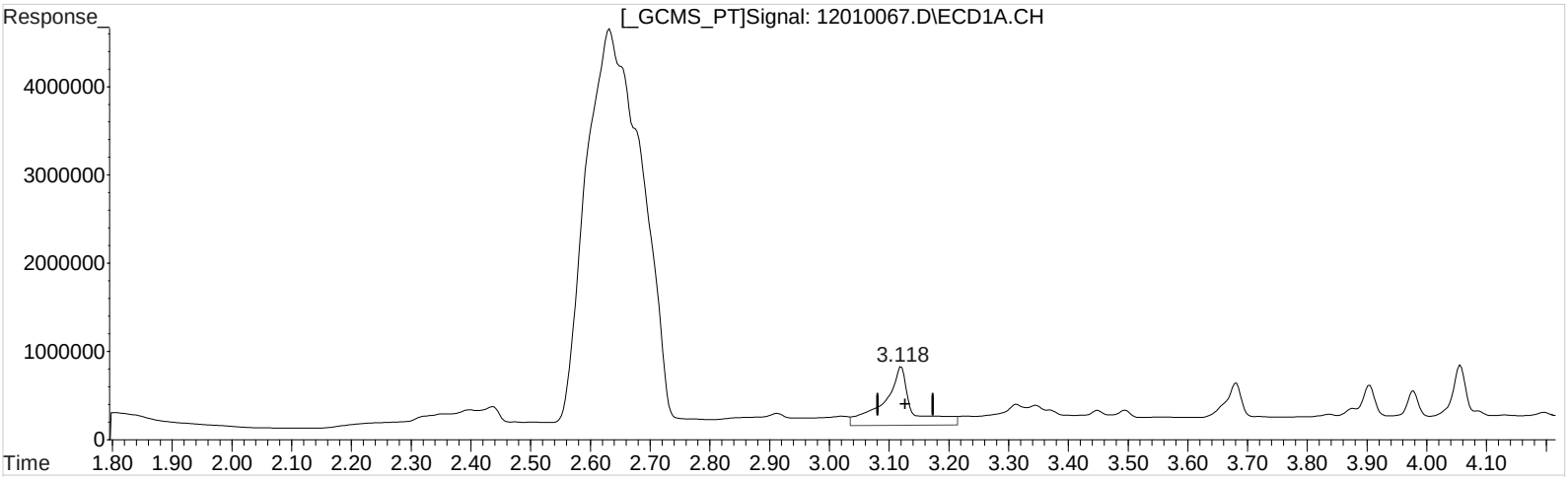
Quantitation Report (Qedit)

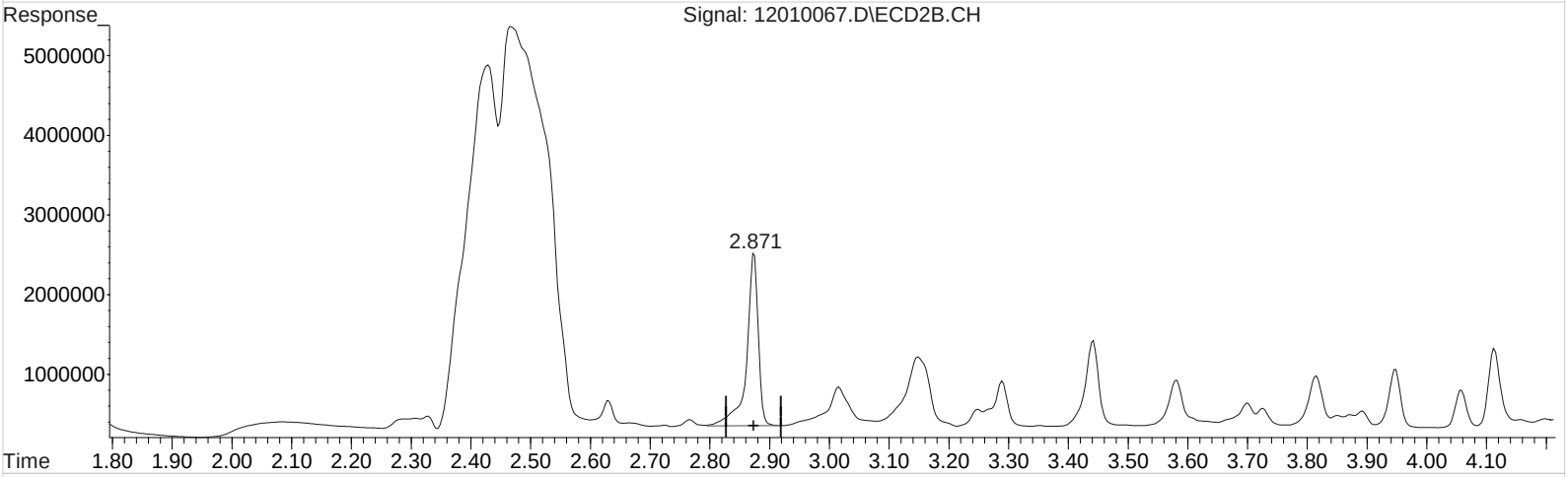
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:58:53 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





QEdit

(1) Dalapon (m)

3.118min 90.248 ppb

response 2189267

(1) Dalapon #2 (m)

2.871min 61.030 ppb

response 2948521

Manual Integration:

Before

12/03/20

(+) = Expected Retention Time

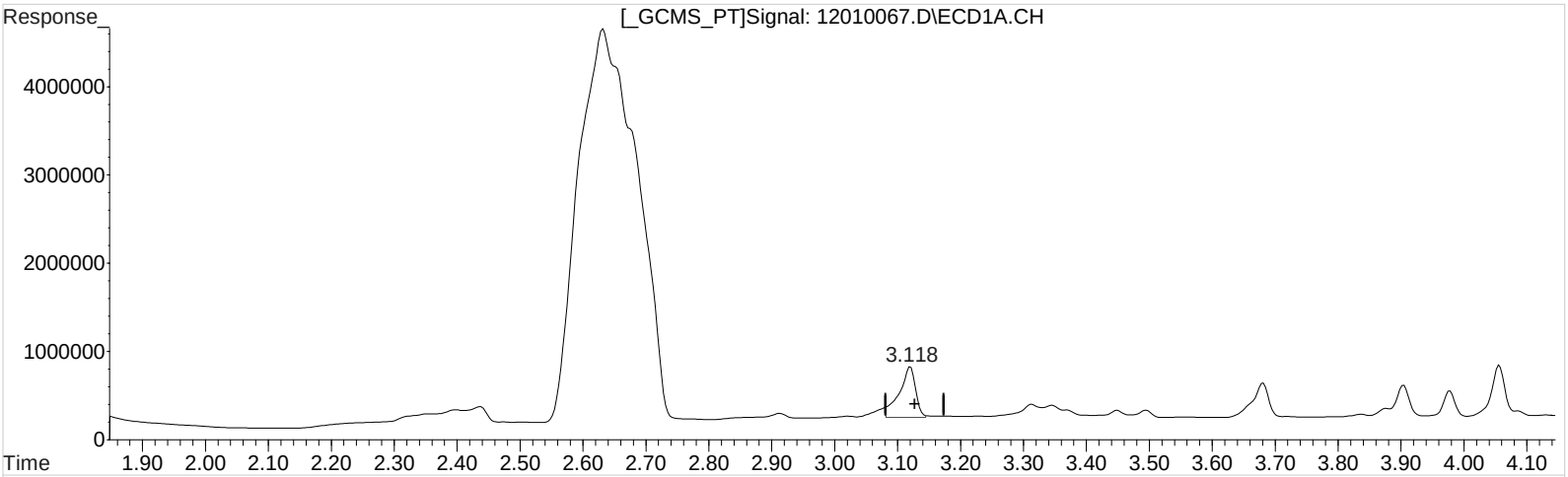
Quantitation Report (Qedit)

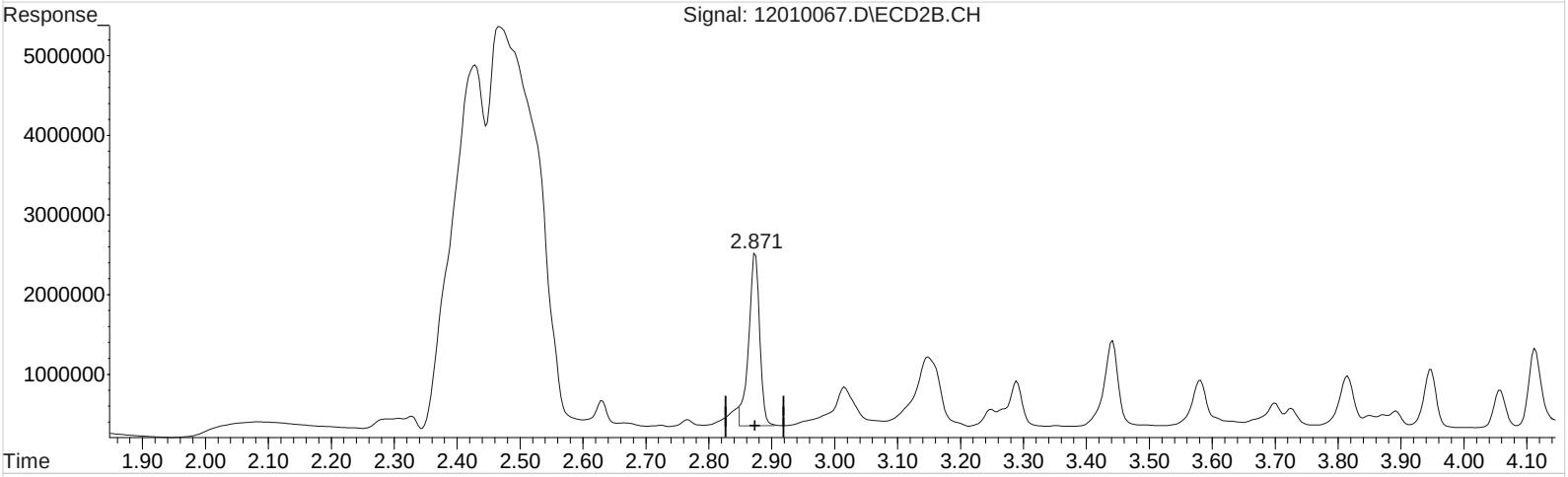
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:58:53 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





QEdit

(1) Dalapon (m)

3.118min 42.126 ppb m

response 1021912

(1) Dalapon #2 (m)

2.871min 53.913 ppb m

response 2604674

Manual Integration:

After

Baseline/Shoulder

12/03/20

(+) = Expected Retention Time

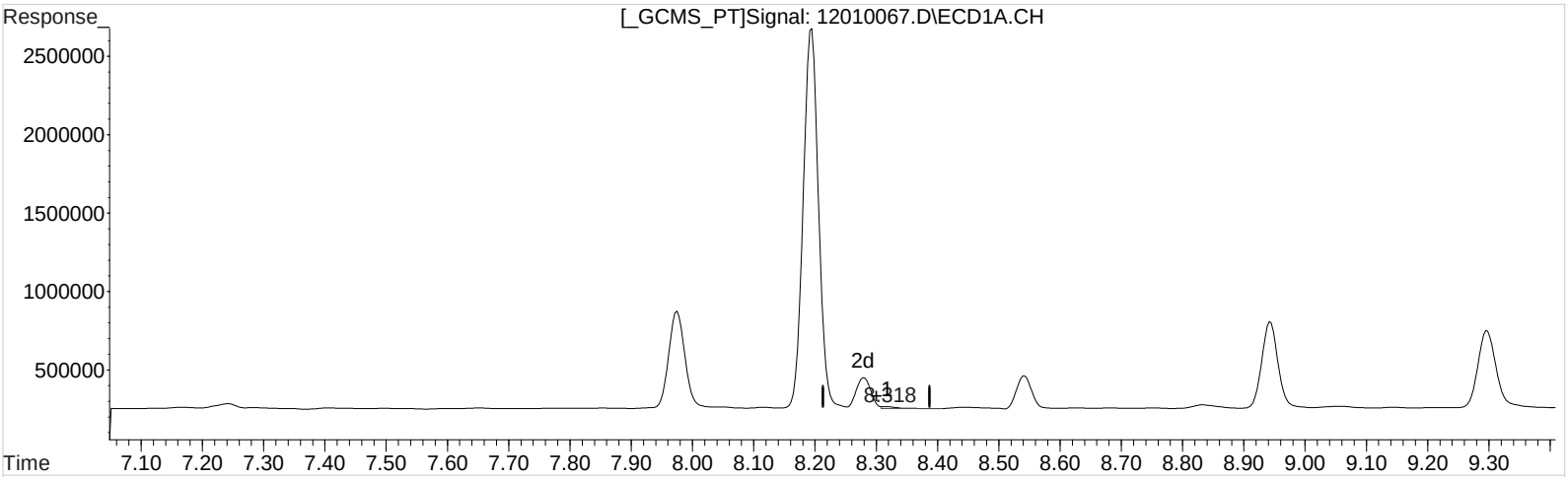
Quantitation Report (Qedit)

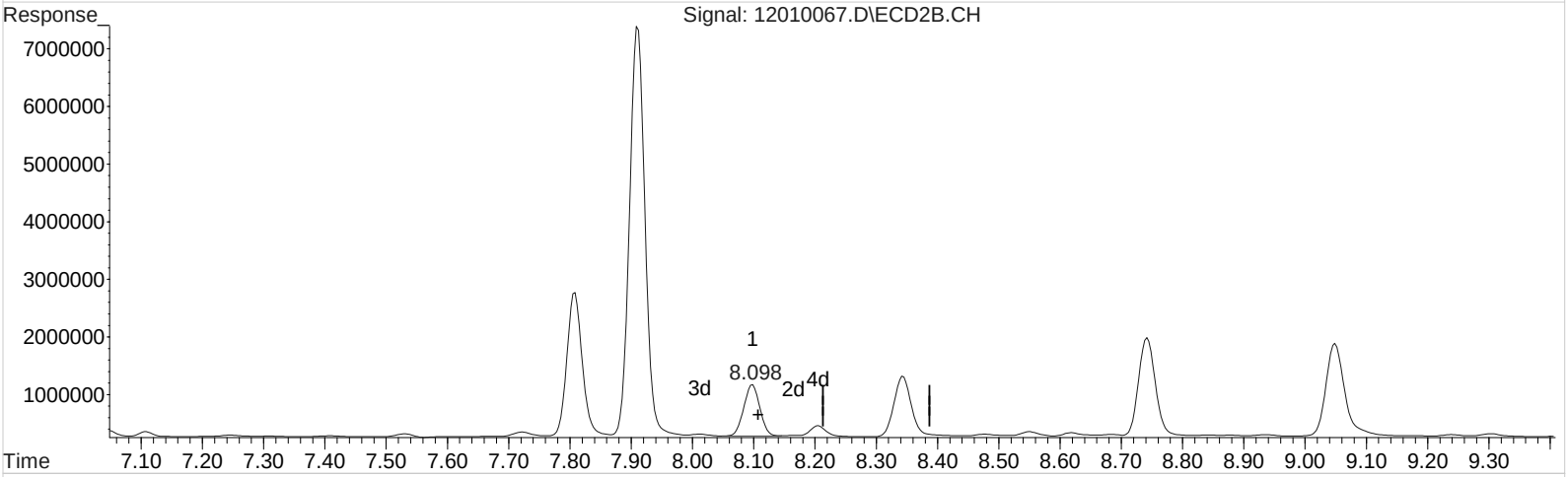
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:58:53 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





QEdit

(4) MCPP (m)

8.318min 885.513 ppb

response 17507

(4) MCPP #2 (m)

8.098min 9790.557 ppb

response 1621862

Manual Integration:

Before

12/03/20

(+) = Expected Retention Time

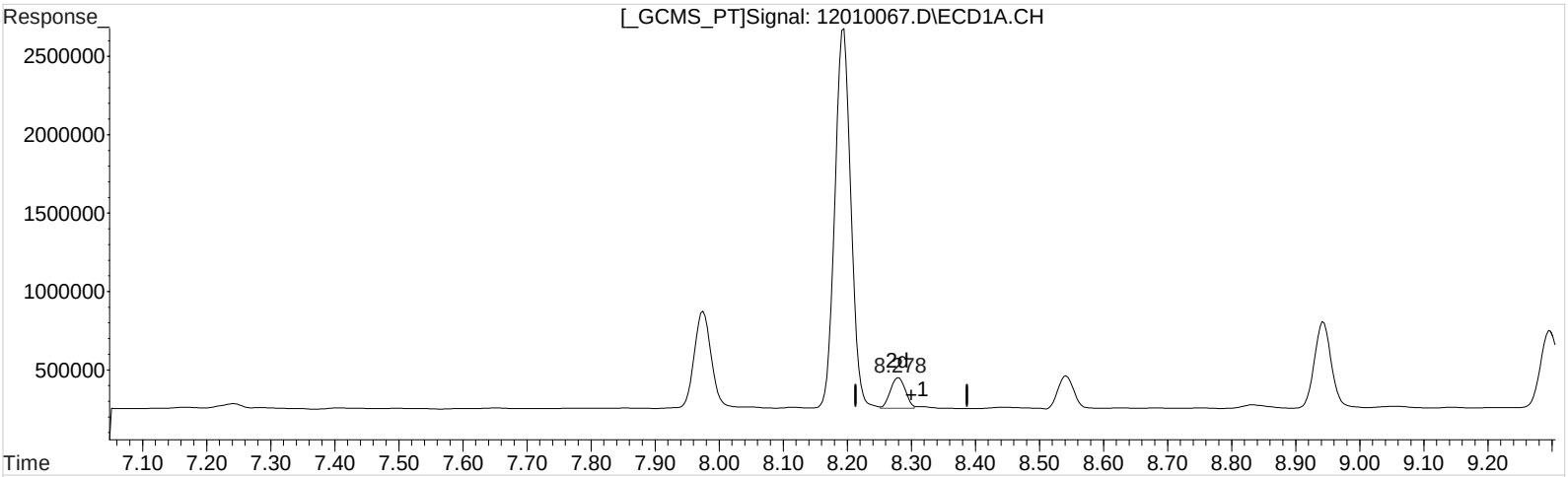
Quantitation Report (Qedit)

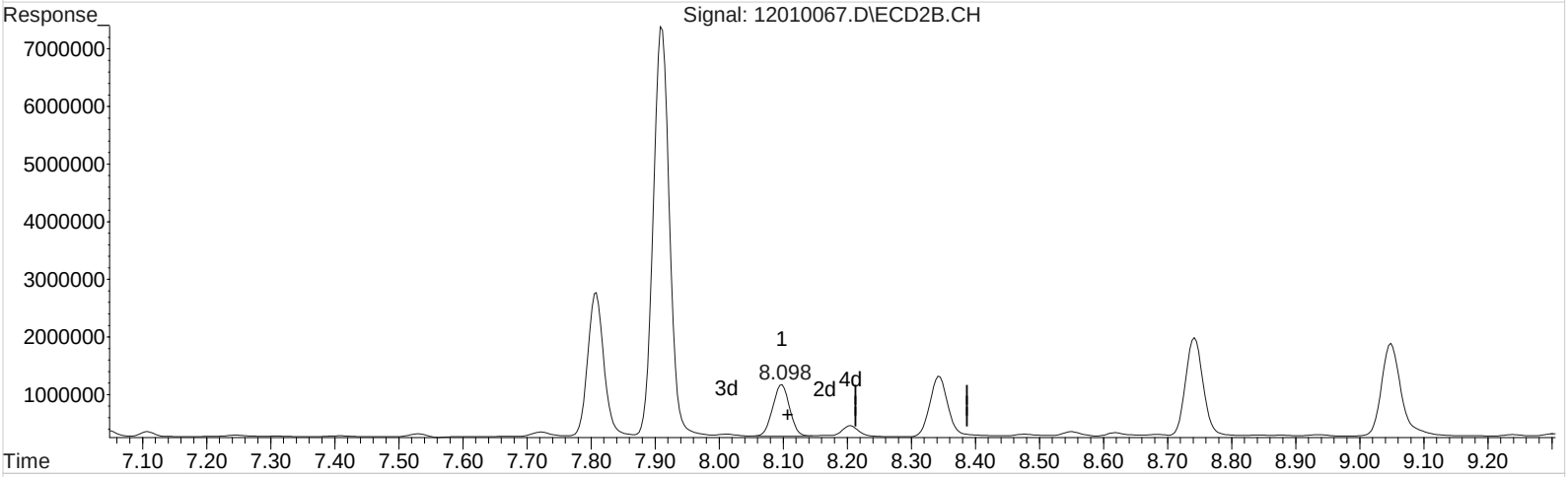
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010067.D Vial: 70
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 6:31 pm Operator: UA
Sample : KQ2018489-04DMS Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 03 09:58:53 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





QEdit

(4) MCPP (m)

8.278min 7356.866 ppb m

response 318232

Manual Integration:

After

Wrong Peak

12/03/20

(4) MCPP #2 (m)

8.098min 9790.557 ppb

response 1621862

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010027.D\
Lab ID: KQ2019138-02
RunType: CCB
Matrix: Sediment

Date Acquired: 12/2/20 03:15:00
Batch ID: 705487
Analysis Method: 8151A/HERB

Validations

Validation Categories	Pass	Fail
ICAL Analyte Recovery	X	
Second Source ICAL Verification	X	
Continuing Calibration Recovery (Closing)	X	
Surrogates	X	
Above Highest ICAL Level	X	
Analyte Coelutions	X	

Primary Review: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010027.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 03:15:00	**Vial:**	2
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019138-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**		**Report Group:**	KQ2019138
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	7.83	7004	35037	0.385	0.828				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	4112	12361	0.044	0.061	0.073U	0.10U	2.4 U	Y
2,4-D	9.29	9.05	2676	92888	0.126	1.814	0.21U	3.0U	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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010027.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:15 am Operator: UA
Sample : ~~PENTA2=14N 100PB~~* CCB Inst : HP G1530A
Misc : *CCB - Vials switched on instrument Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:42:42 2020 *ES 12/2/2020
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	7.835	7004	35037	0.385	0.828 #
	Target Compounds						
1) m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3) m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4) m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5) m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6) m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7) m	2,4-D	9.291	9.048	2676	92888	0.126	1.814 #
8) m	2,4,5-TP ...	10.261	10.141	4112	12361	0.044m	0.061 #
9) m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10) m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11) m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

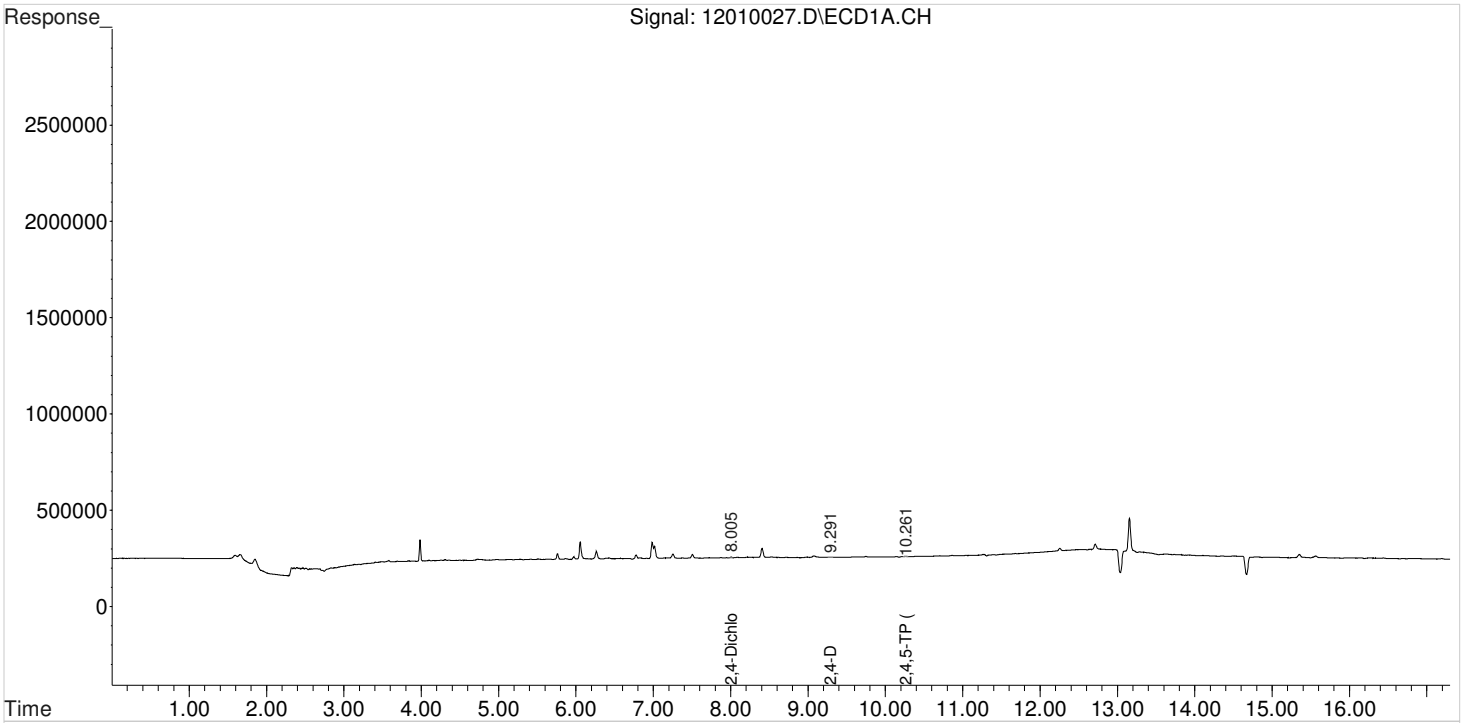
Quantitation Report (QT Reviewed)

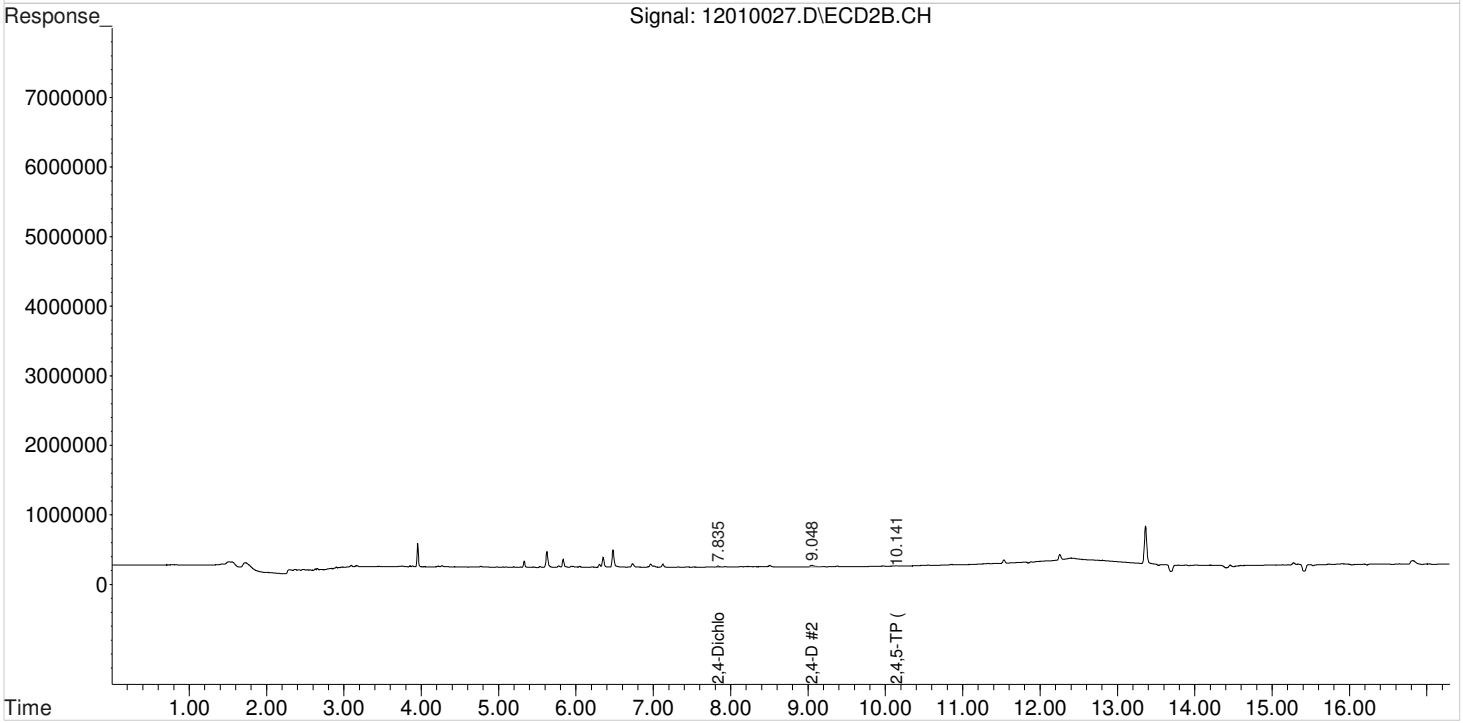
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010027.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:15 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: Dec 02 10:42:42 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





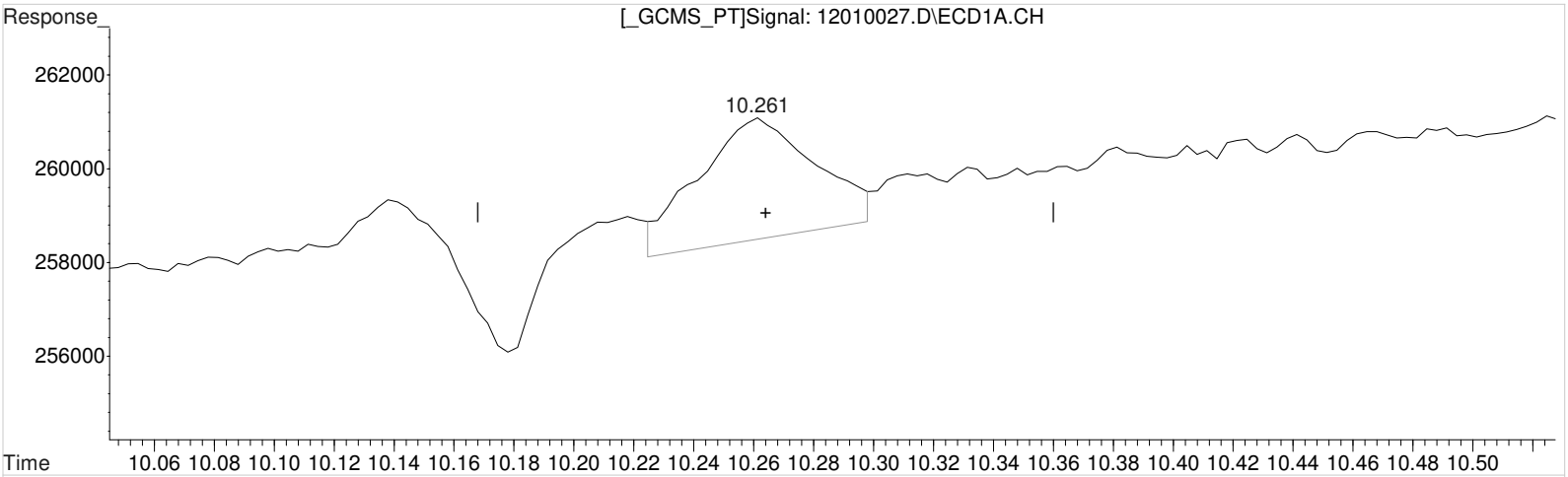
Quantitation Report (Qedit)

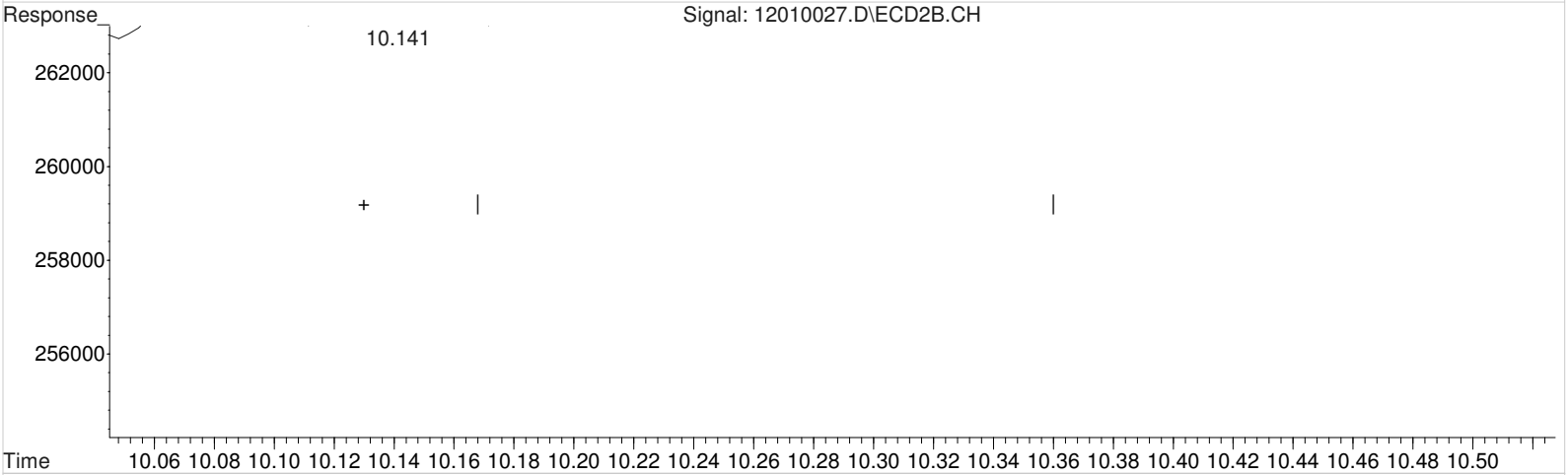
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010027.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:15 am Operator: UA
Sample : ~~PENTA2-14N 100PB~~ Vials switched on instrument. This is a CCB. Inst : HP G1530A
Misc : ES 12/2/2020 Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 10:37:43 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.261min 0.076 ppb

response 7088

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.141min 0.061 ppb

response 12361

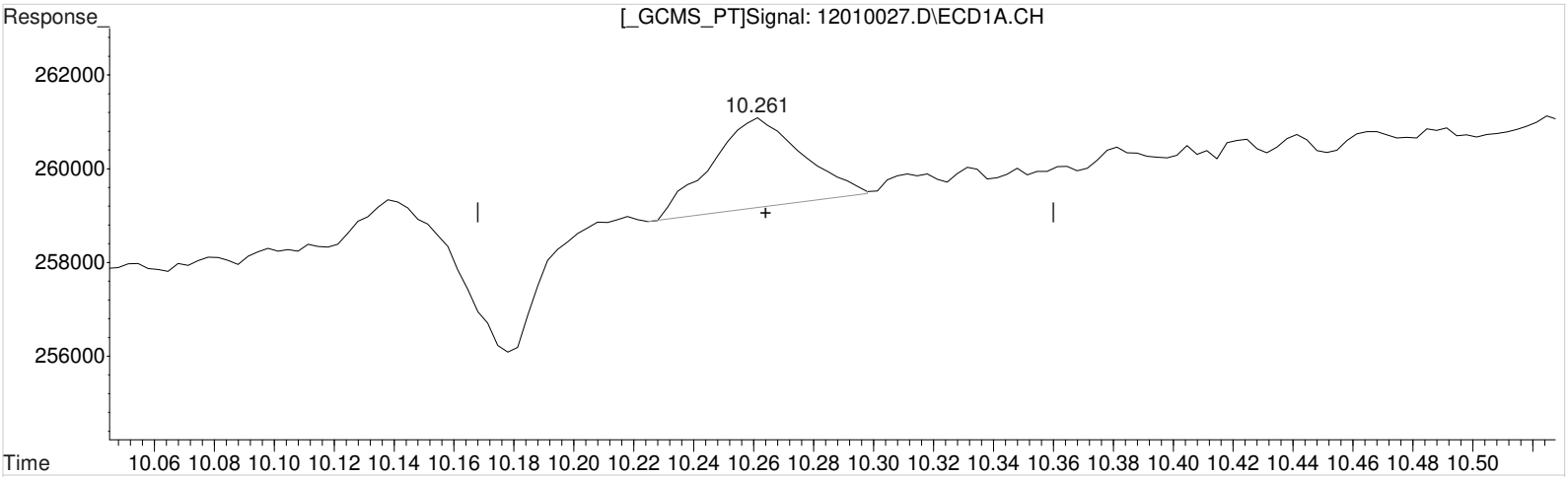
(+) = Expected Retention Time

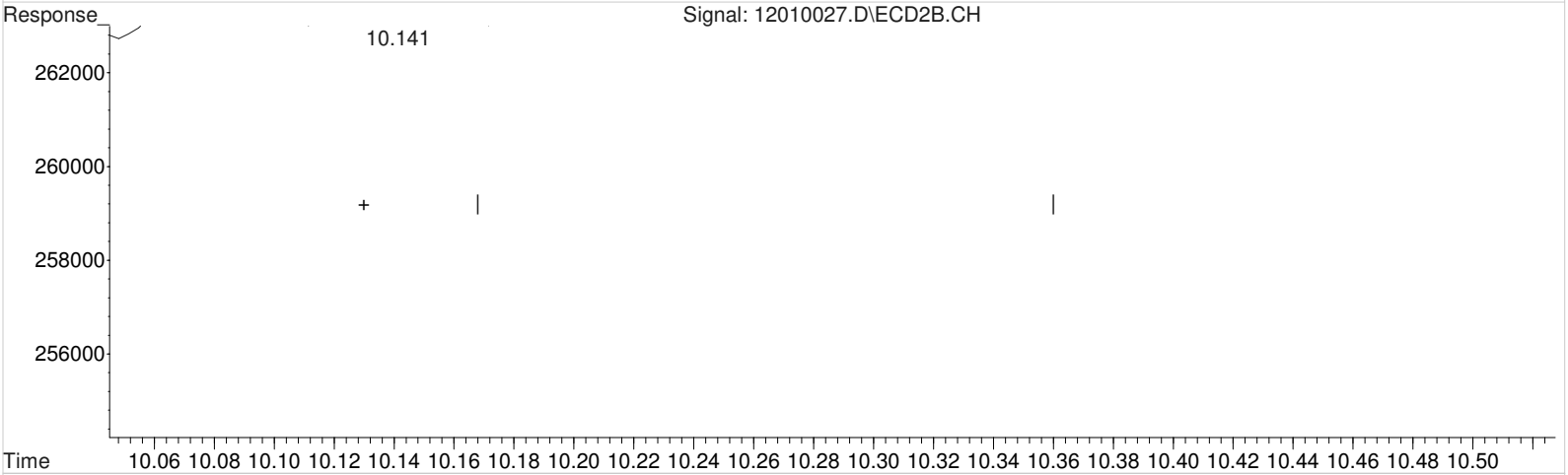
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010027.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:15 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: Dec 02 10:37:43 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.261min 0.044 ppb m

response 4112

Manual Integration:

After

Baseline

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.141min 0.061 ppb

response 12361

(+) = Expected Retention Time

1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010039.D\
Lab ID: KQ2019199-02
RunType: CCB
Matrix: Sediment

Date Acquired: 12/2/20 07:50:00
Batch ID: 705654
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
Continuing Calibration Recovery - RTX-CLP2	2,4,5-TP	-100		20	
	2,4-D	-100		20	
	DCAA	-100		20	
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	-100		20	
	2,4-D	-98		20	
	DCAA	-99		20	

Primary Review: _____

Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010039.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 07:50:00	**Vial:**	18
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019199-02	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.83	6551	43865	0.360	1.037				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	1911	5968	0.020	0.029	0.033U	0.048U	2.4 U	Y
2,4-D	9.36	9.04	1024	106038	0.048	2.071	0.080U	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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1st 12/02/20
2nd 12/02/20

Quantitation Report (QT Reviewed)

Data File : J:\gc24\data\120120\12010039.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:50 am Operator: UA
Sample : ~~PENTA2-14N 100PB~~ * .CCB Inst : HP G1530A
Misc : .*CCB - Vials switched on instrument Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P *ES 12/2/2020
Quant Time: Dec 02 11:52:17 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...	8.006	7.833	6551	43865	0.360	1.037 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.359	9.043	1024	106038	0.048	2.071 #
8)	m	2,4,5-TP ...	10.263	10.139	1911	5968	0.020m	0.029 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

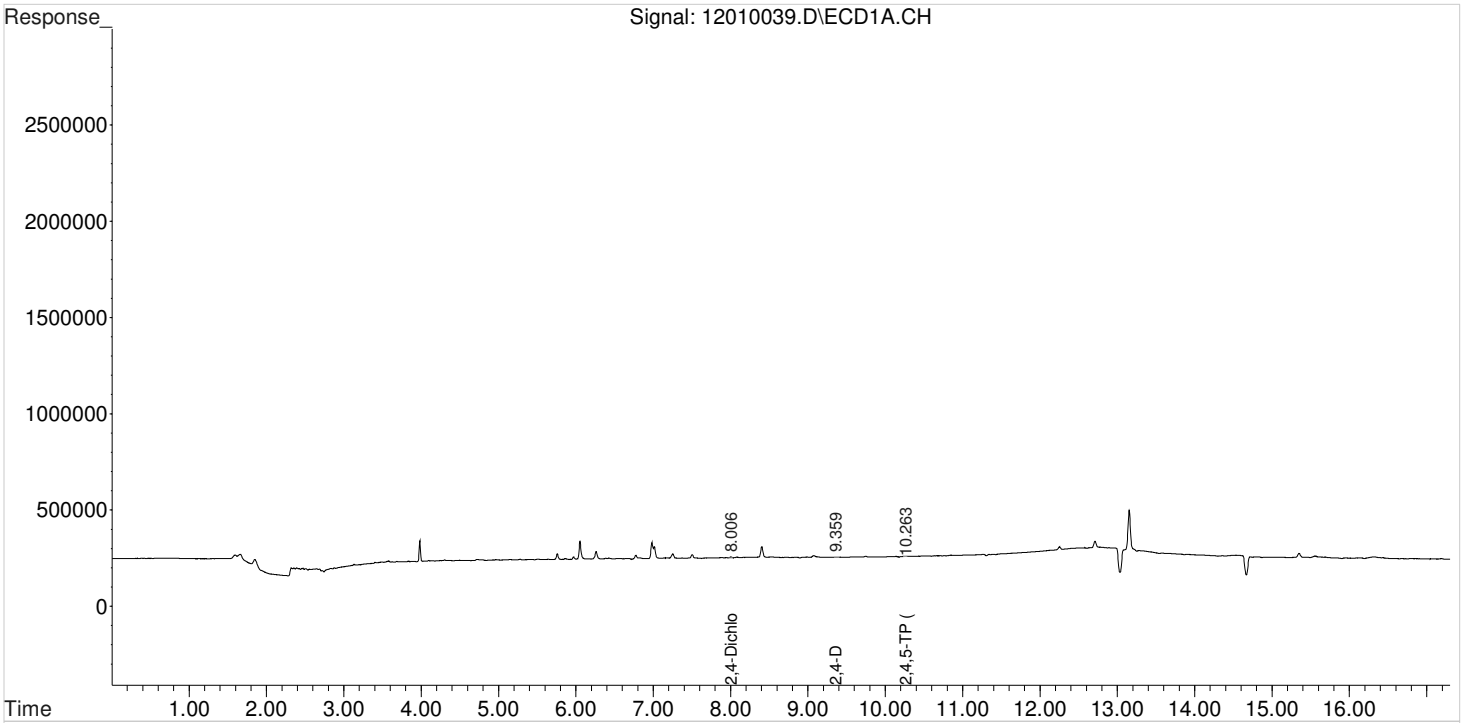
Quantitation Report (QT Reviewed)

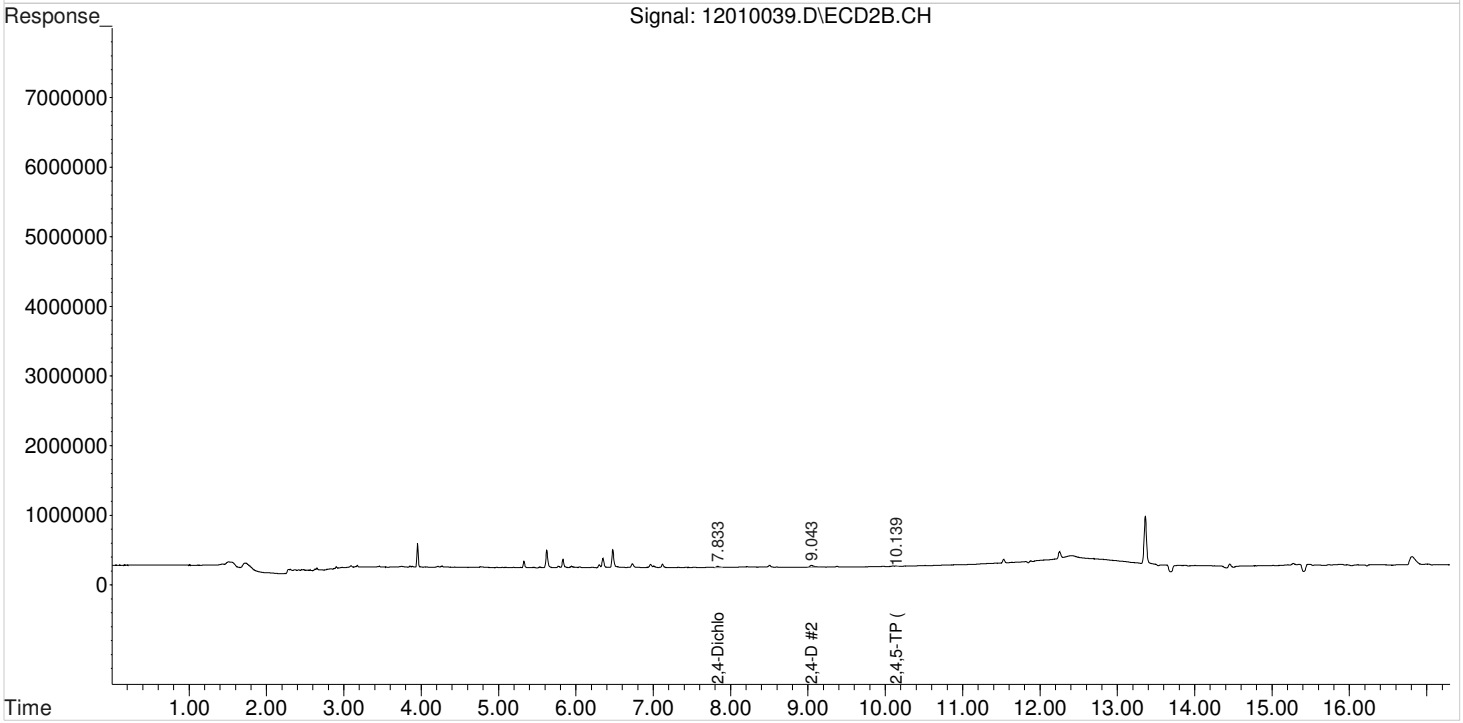
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010039.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:50 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: Dec 02 11:52:17 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



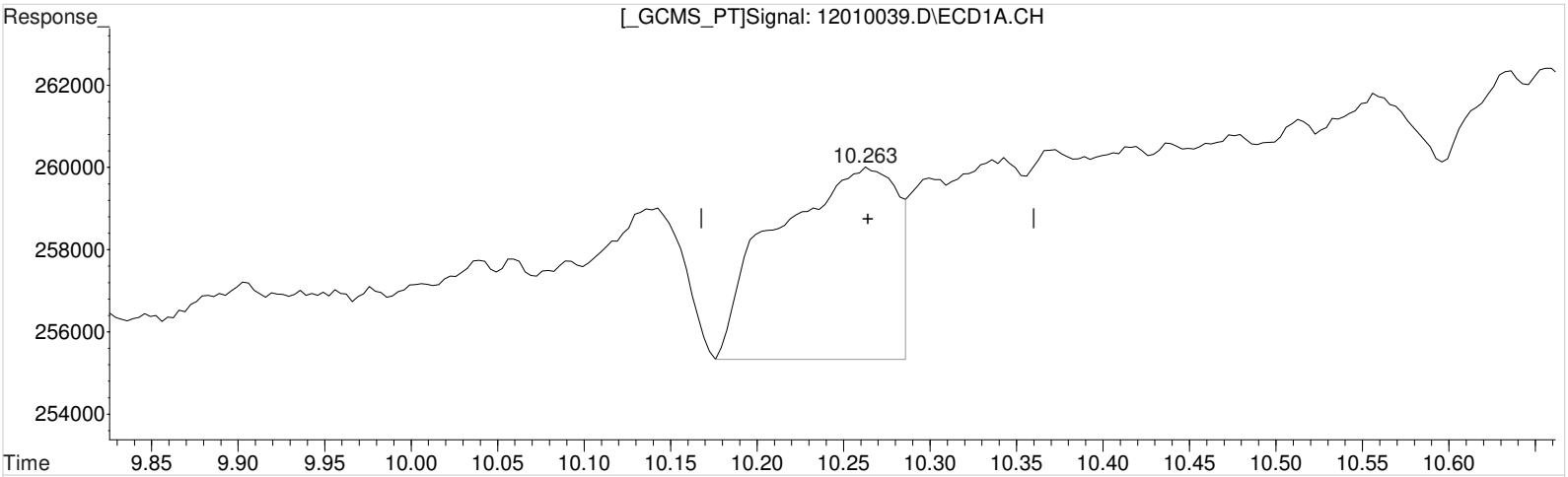


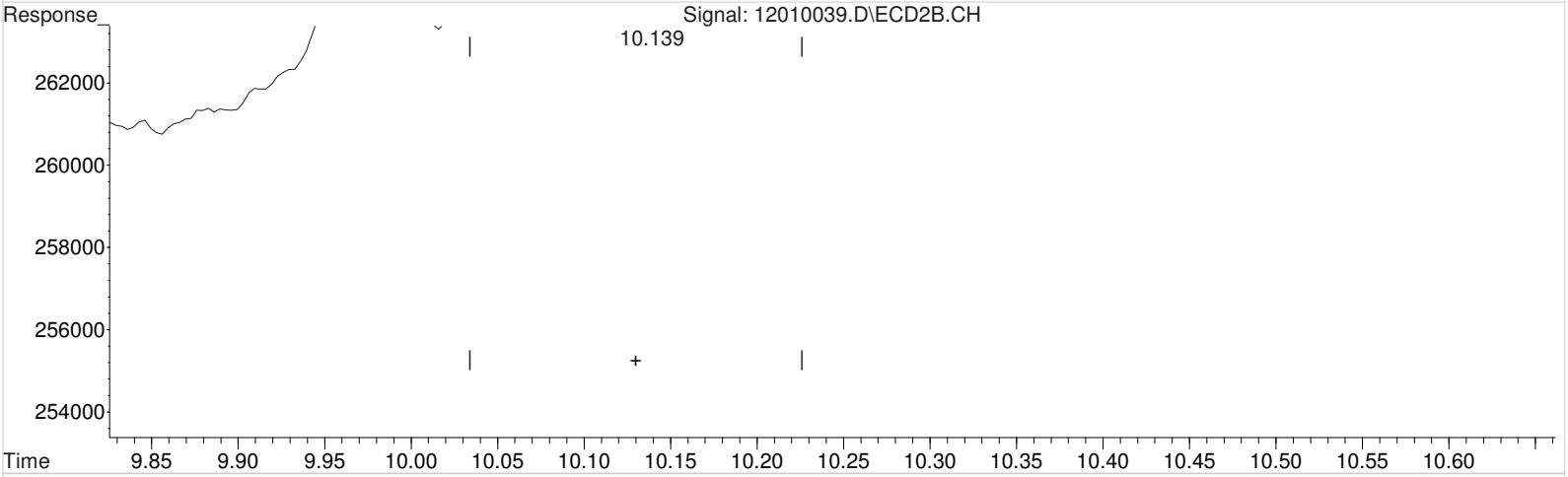
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010039.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:50 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: Dec 02 10:38:19 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.263min 0.245 ppb

response 22907

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.139min 0.029 ppb

response 5968

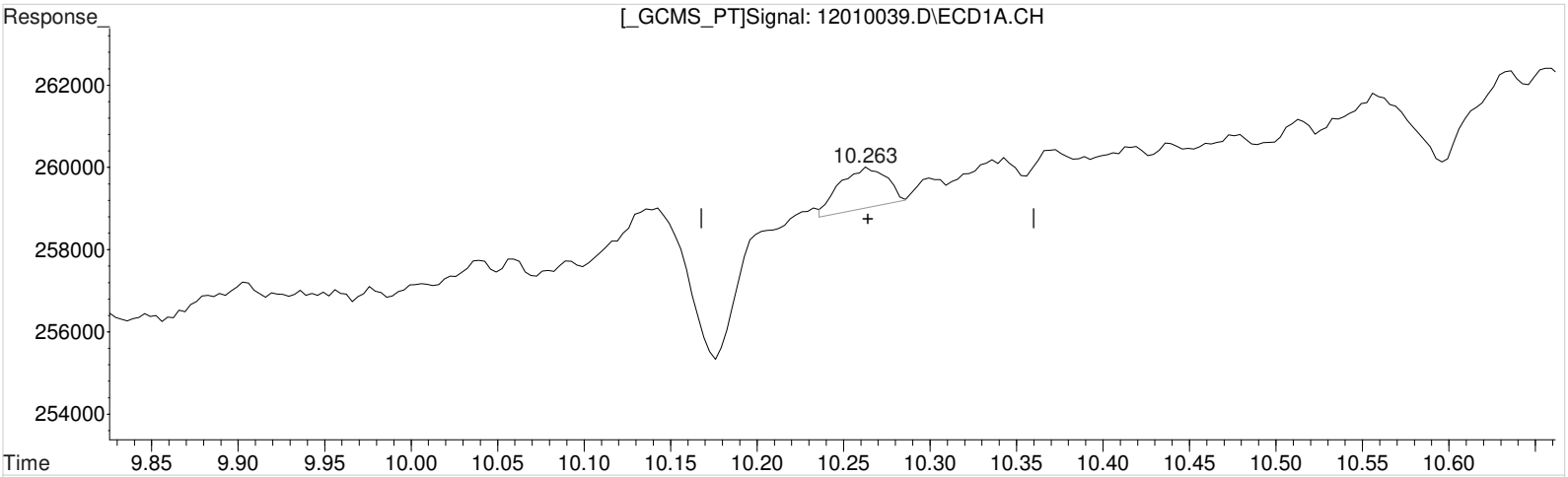
(+) = Expected Retention Time

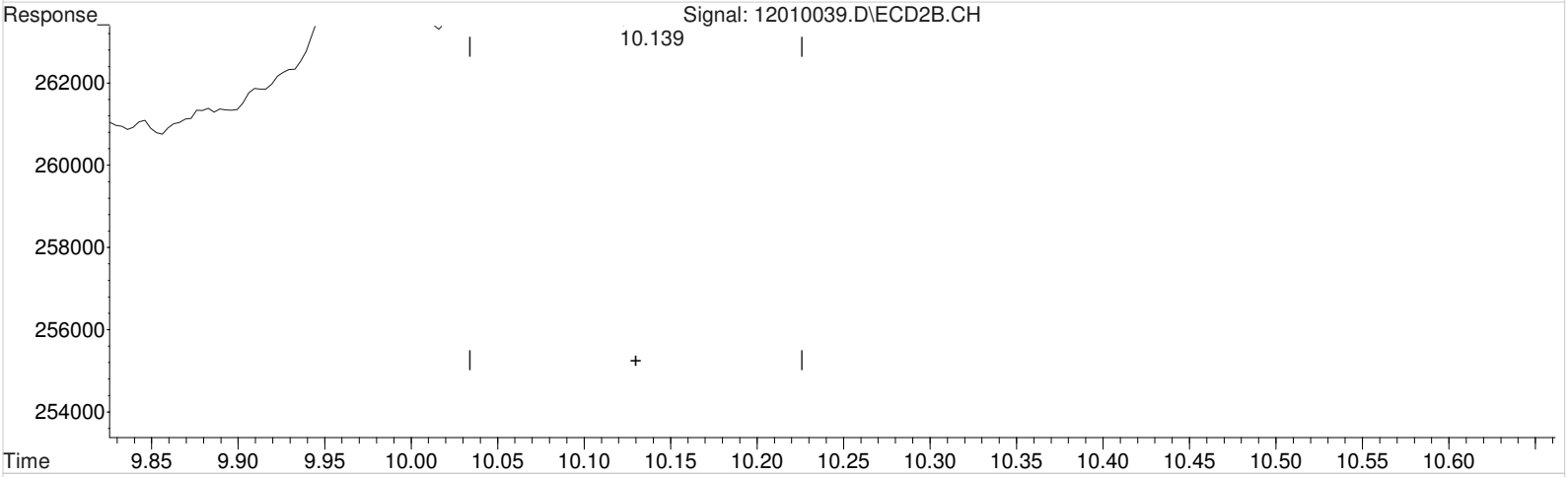
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010039.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 7:50 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: Dec 02 10:38:19 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.263min 0.020 ppb m

response 1911

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.139min 0.029 ppb

response 5968

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010052.D\
Lab ID: KQ2019199-04
RunType: CCB
Matrix: Sediment

Date Acquired: 12/2/20 12:48:00
Batch ID: 705654
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
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010052.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 12:48:00	**Vial:**	20
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019199-04	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	6897	43968	0.379	1.039				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	5267	21690	0.056	0.107 CCV	0.093U	0.18U	2.4 U	Y
2,4-D	0.00	9.03 -0.03	0	123808	0.000	2.418	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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010052.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:48 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: Dec 02 16:55:42 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

		Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb
		System Monitoring Compounds						
2)	s	2,4-Dichl...	7.997	7.827	6897	43968	0.379	1.039 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	0.000	9.034	0	123808	N.D. d	2.418
8)	m	2,4,5-TP ...	10.250	10.130	5267	21690	0.056m	0.107 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

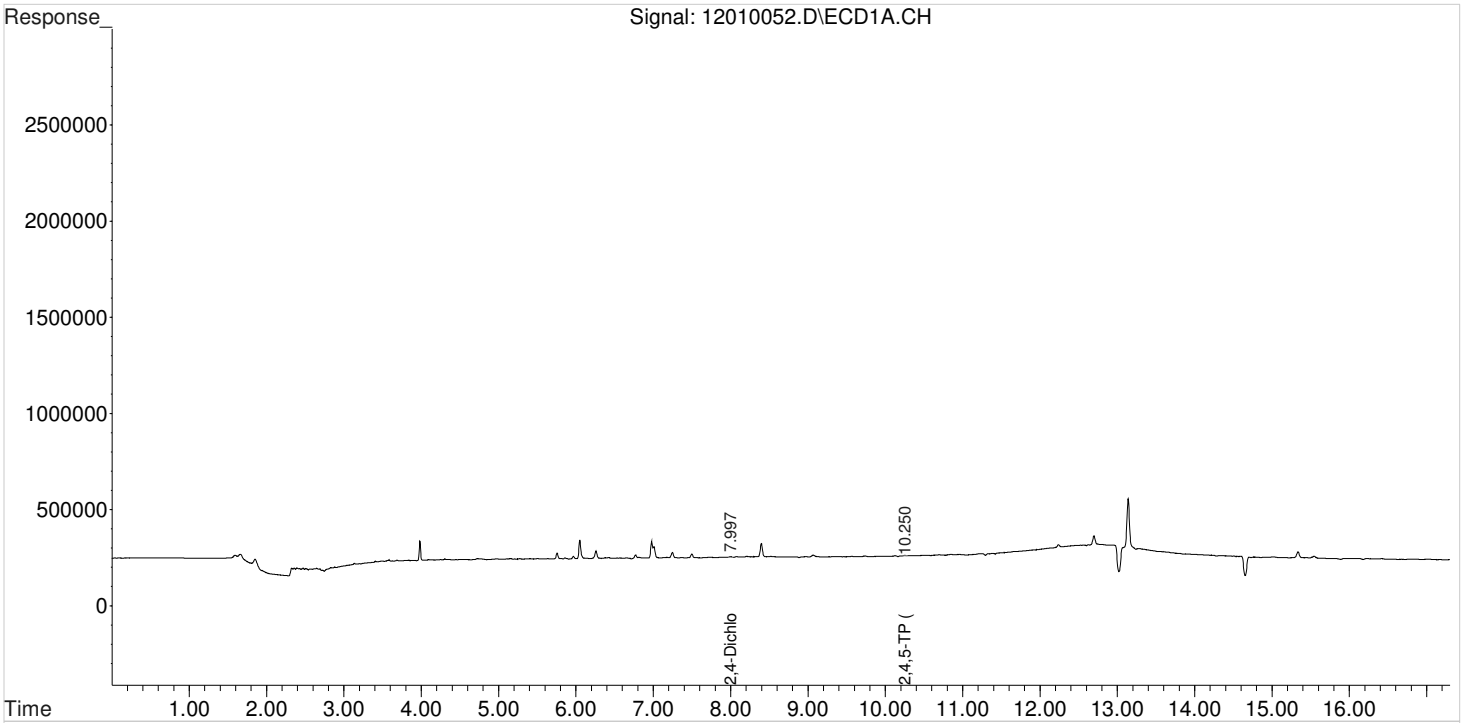
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

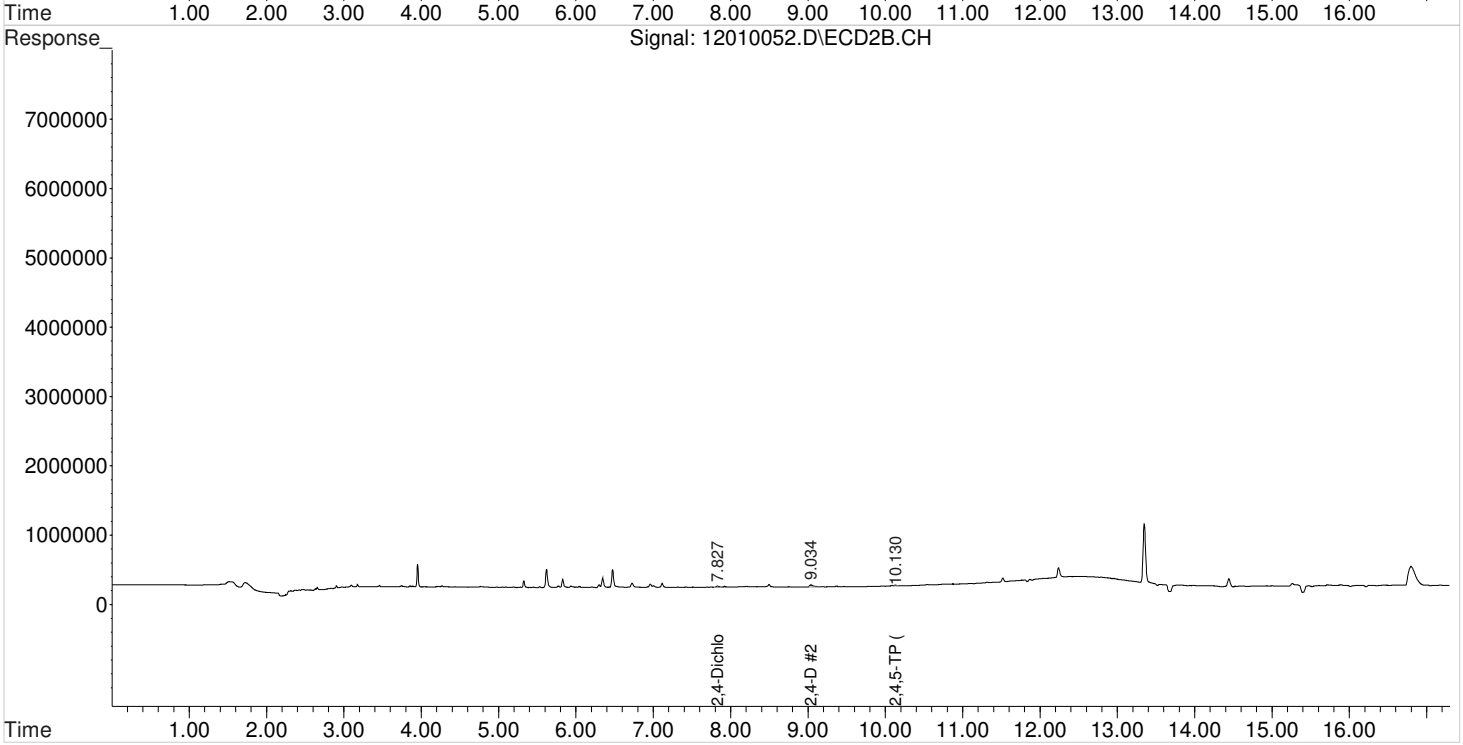
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010052.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:48 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: Dec 02 16:55:42 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



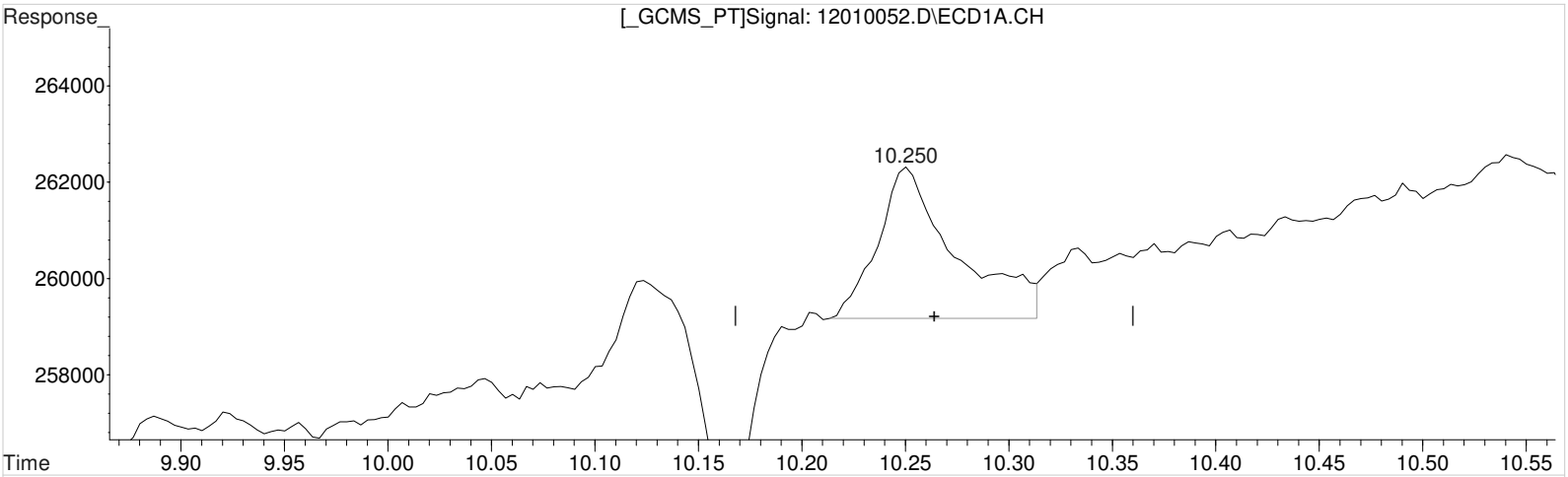


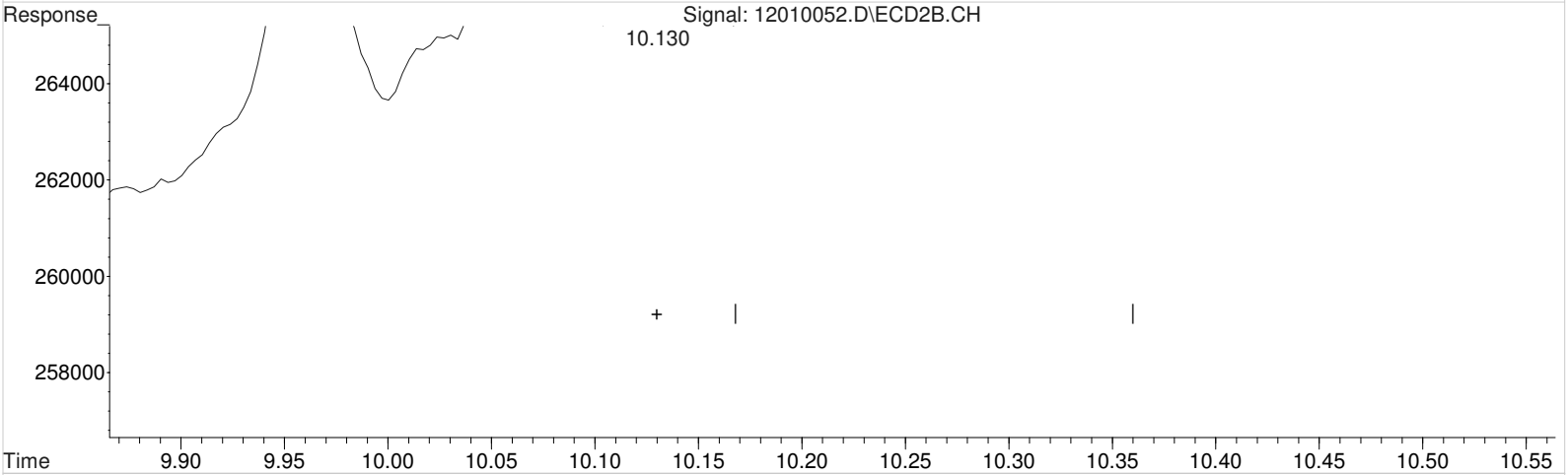
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010052.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:48 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: Dec 02 16:54:10 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 0.088 ppb

response 8214

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.107 ppb

response 21690

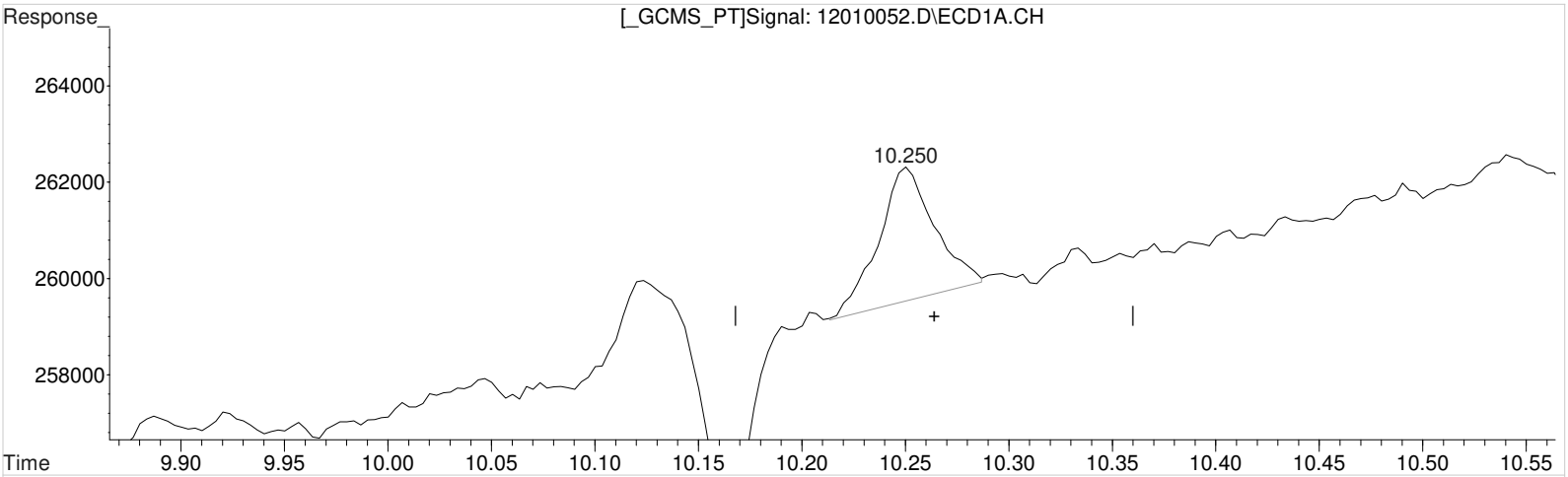
(+) = Expected Retention Time

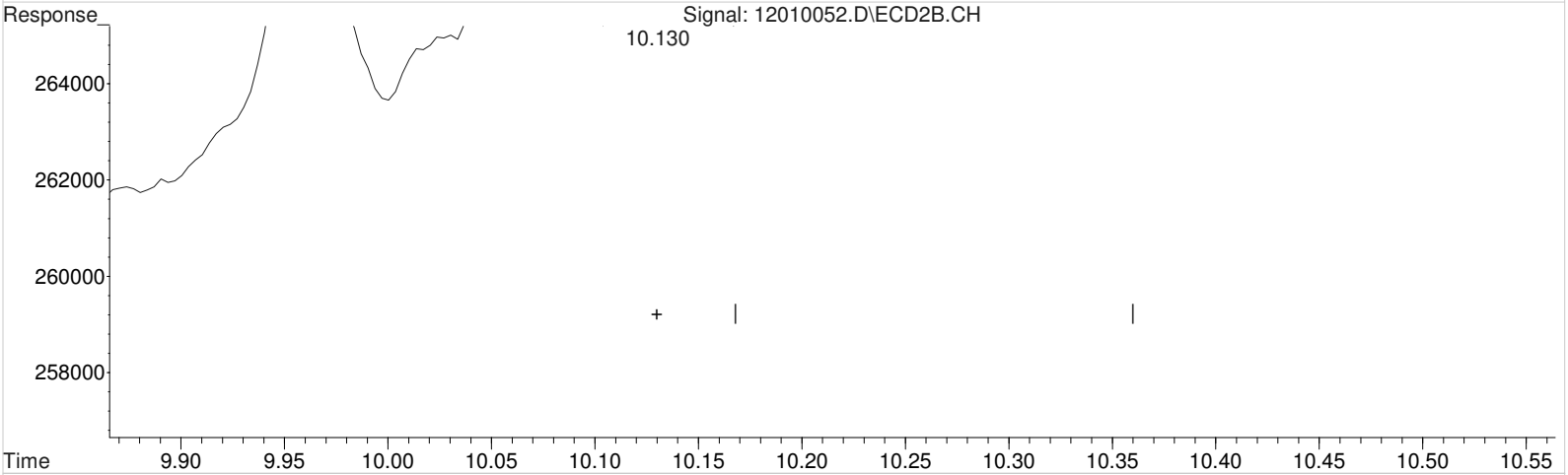
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010052.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:48 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: Dec 02 16:54:10 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 0.056 ppb m

response 5267

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 0.107 ppb

response 21690

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010064.D\
Lab ID: KQ2019199-06
RunType: CCB
Matrix: Sediment

Date Acquired: 12/2/20 17:23:00
Batch ID: 705654
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	21		20	CCV+ND
Continuing Calibration Recovery (Closing) - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

Secondary Review: _____

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1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010064.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 17:23:00	**Vial:**	22
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019199-06	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.99 +0.01	7.82 +0.01	8625	44840	0.474	1.060				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	10.24	10.12	6151	18001	0.066	0.089 CCV	0.11U	0.15U	2.4 U	Y
2,4-D	9.34 +0.04	9.03 -0.02	1150	138579	0.054	2.707	0.090U	4.5U	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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010064.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:23 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: Dec 02 18:47:06 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 17:31:59 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	8625	44840	0.474	1.060 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.338	9.031	1150	138579	0.054	2.707 #
8)	m	2,4,5-TP ...	10.244	10.124	6151	18001	0.066m	0.089 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

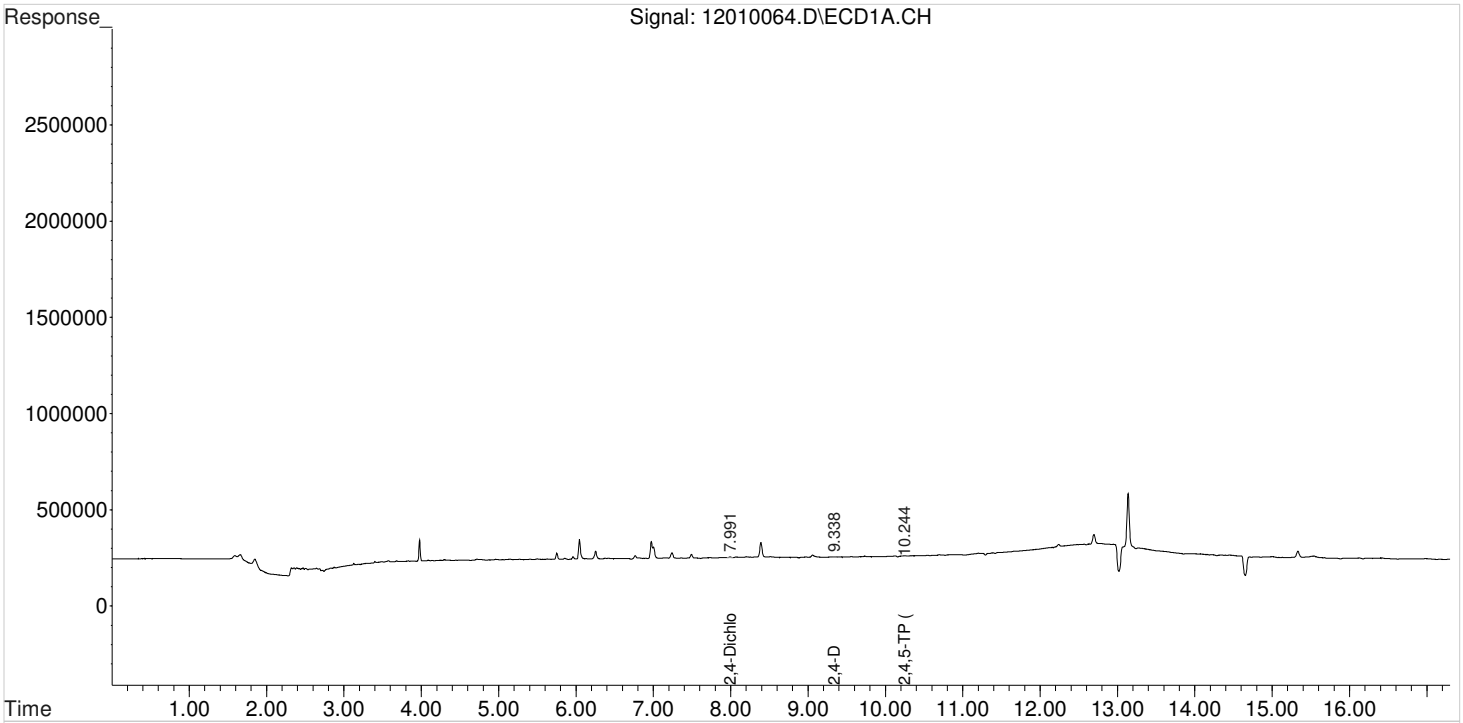
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

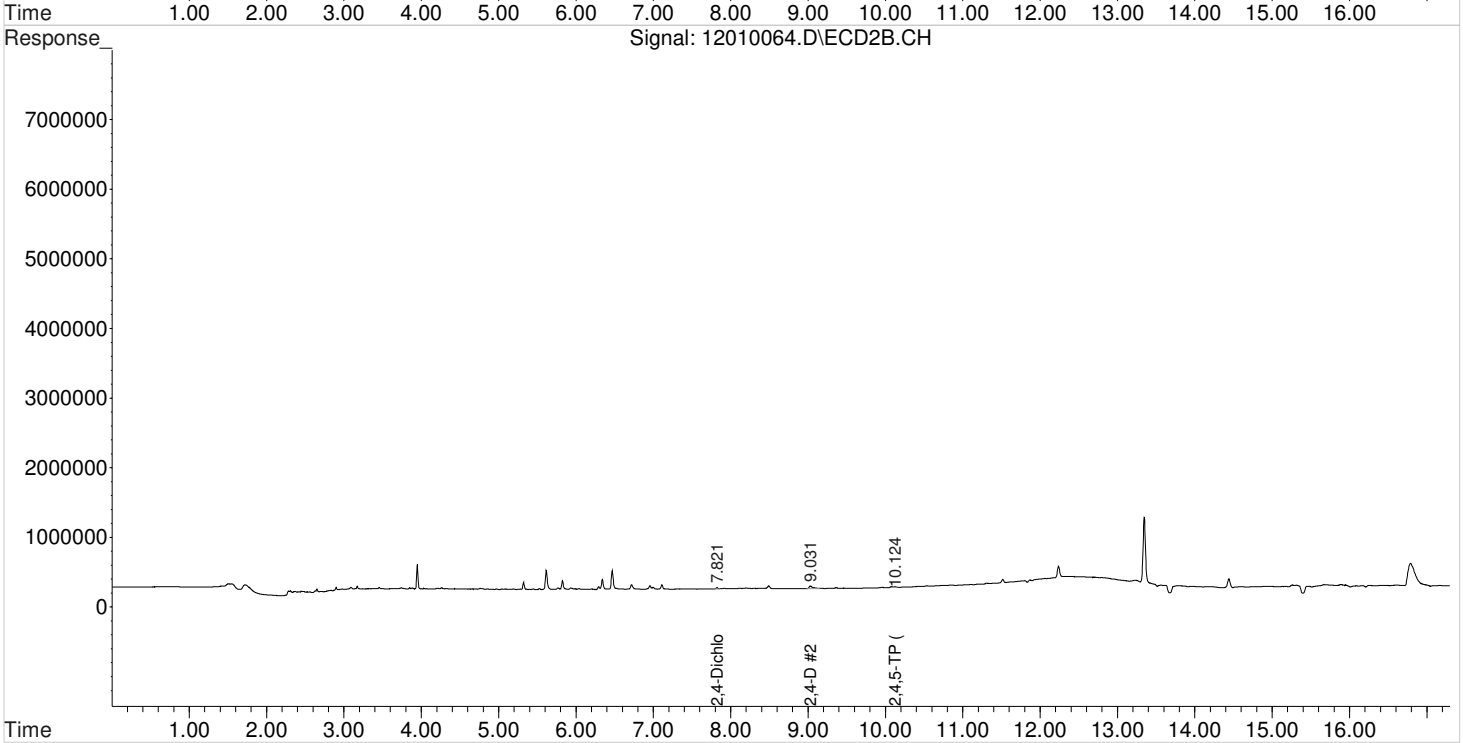
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010064.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:23 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: Dec 02 18:47:06 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 17:31:59 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



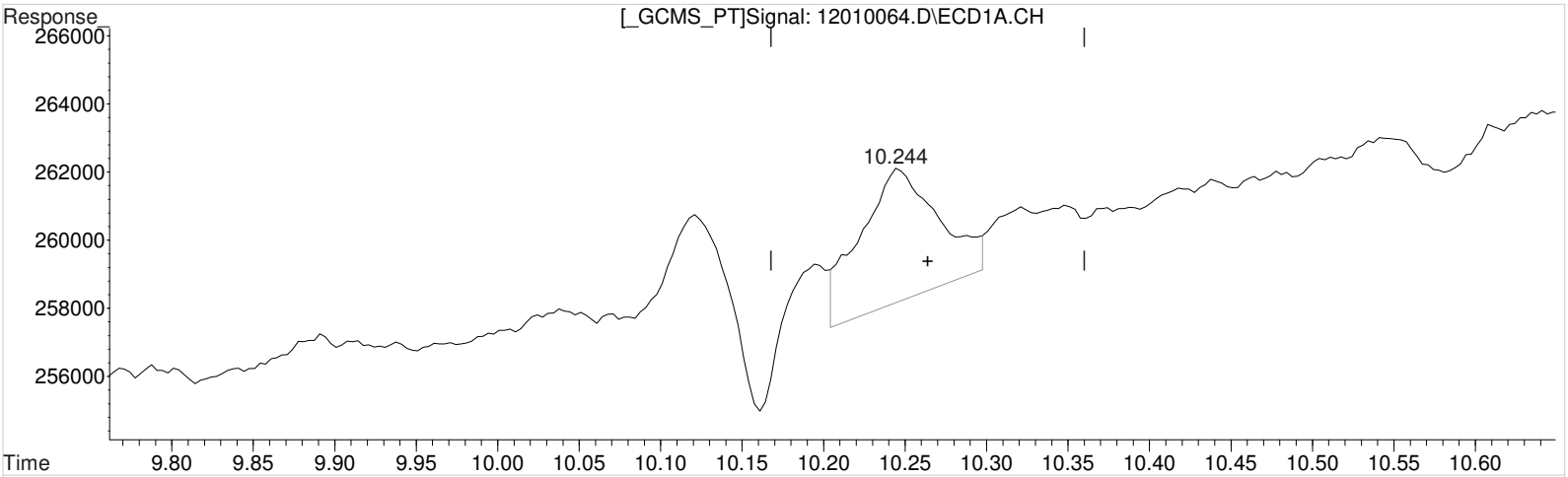


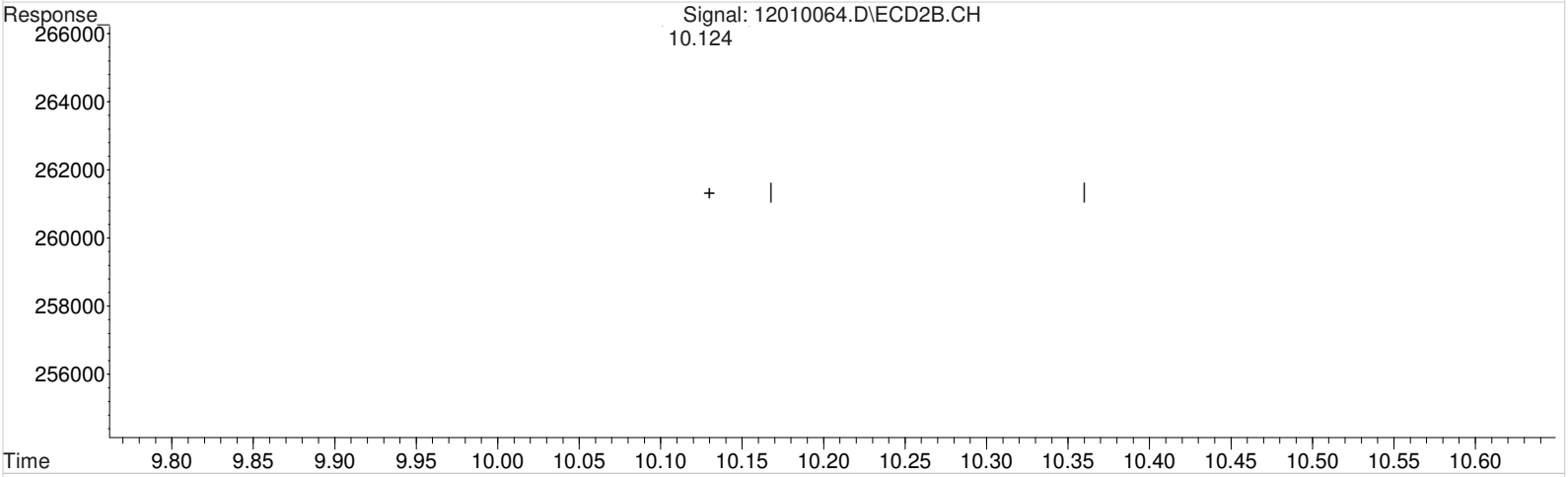
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010064.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:23 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: Dec 02 18:46:03 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.244min 0.142 ppb

response 13271

(8) 2,4,5-TP (Silvex) #2 (m)

10.124min 0.089 ppb

response 18001

Manual Integration:

Before

12/02/20

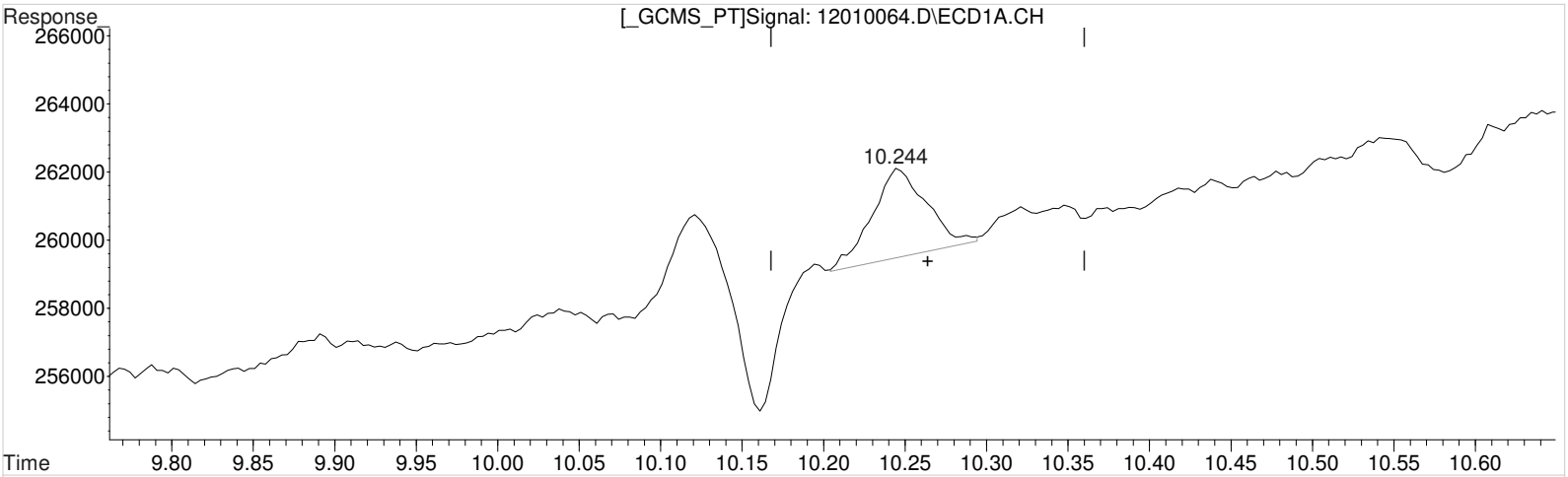
(+) = Expected Retention Time

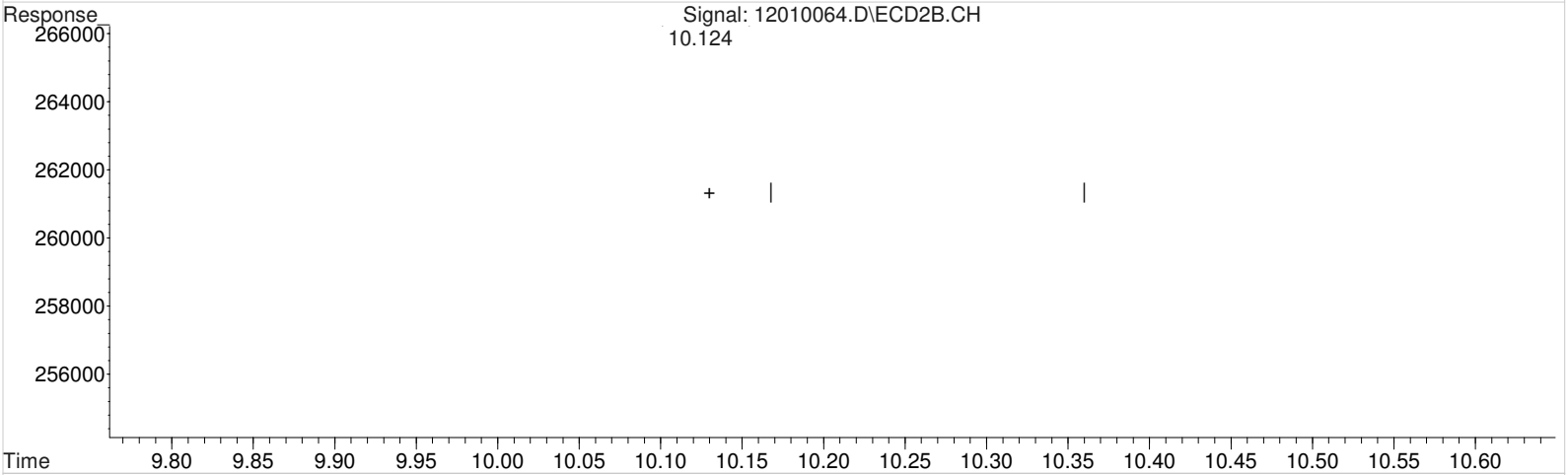
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010064.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:23 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: Dec 02 18:46:03 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.244min 0.066 ppb m

response 6151

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.124min 0.089 ppb

response 18001

(+) = Expected Retention Time

1st UA 12/03/20
2nd 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010076.D\
Lab ID: KQ2019199-08
RunType: CCB
Matrix: Sediment

Date Acquired: 12/2/20 21:57:00
Batch ID: 705654
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
Continuing Calibration Recovery - ZB-XLB-HT	2,4,5-TP	22		20	CCV+ND

Primary Review: _____

Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010076.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 21:57:00	**Vial:**	12
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019199-08	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.99 +0.01	7.82 +0.01	7460	44251	0.410	1.046				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	13344	27831	0.142	0.137 CCV	0.24U	0.23U	2.4 U	Y
2,4-D	9.35 +0.05	9.03 -0.03	1188	143038	0.056	2.794	0.093U	4.7U	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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010076.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:57 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: Dec 03 10:04:17 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	7460	44251	0.410	1.046	#
	Target Compounds							
1) m	Dalapon	0.000	2.900f	0	87471	N.D. d	1.811	
3) m	Dicamba	8.203	7.917	7098	12287	0.102	0.083	
4) m	MCPP	0.000	8.113	0	9202	N.D.	N.D.	
5) m	MCPA	8.517f	8.360	22654	14064	386.900	N.D.	#
6) m	Dichloroprop	8.957	8.747	2928	4843	0.157	0.116	#
7) m	2,4-D	9.350	9.030	1188	143038	0.056	2.794	#
8) m	2,4,5-TP ...	10.247	10.123	13344	27831	0.142	0.137	
9) m	2,4,5-T	10.693	10.537	4145	29505	0.050	0.154	#
10) m	2,4-DB	11.327	11.197	22847	20502	2.227	0.707	#
11) m	Dinoseb	11.663	11.310	13204	31351	0.213	0.229	

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

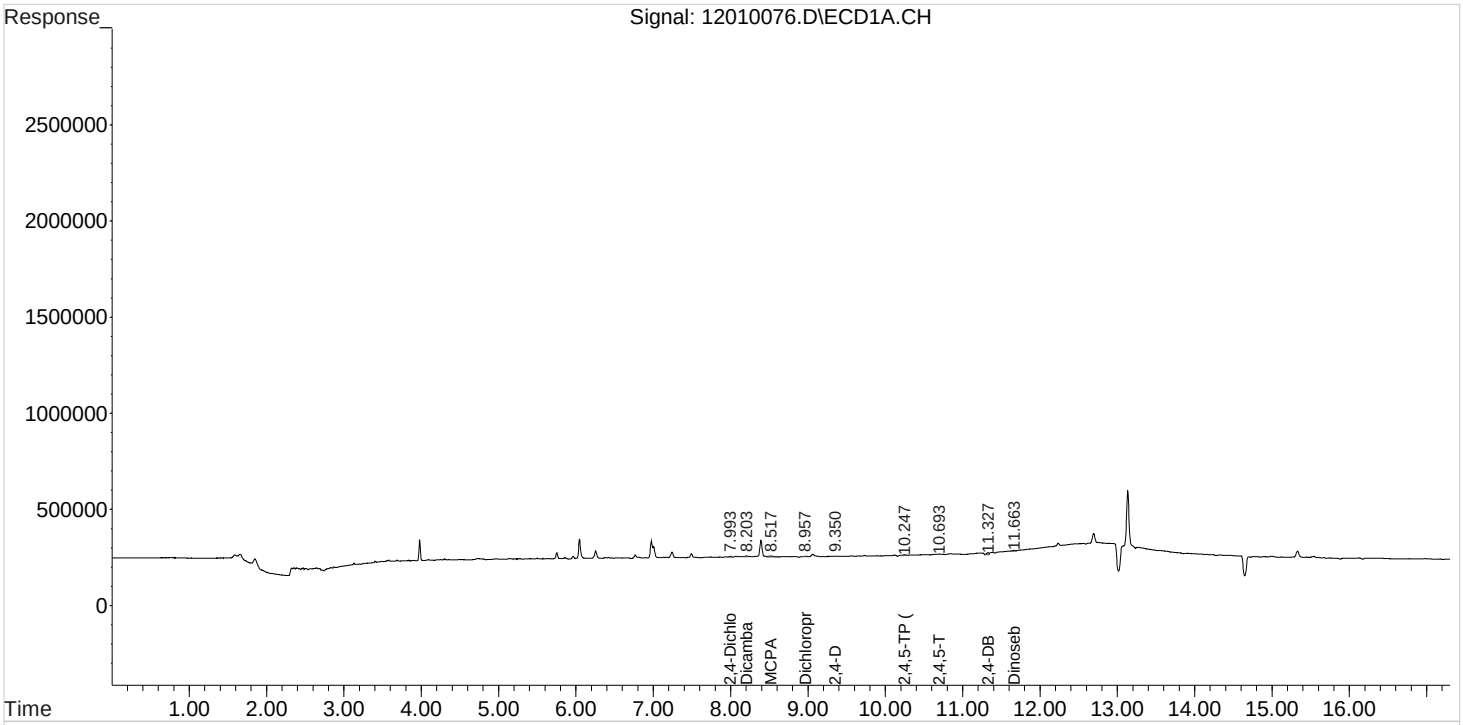
Quantitation Report (QT Reviewed)

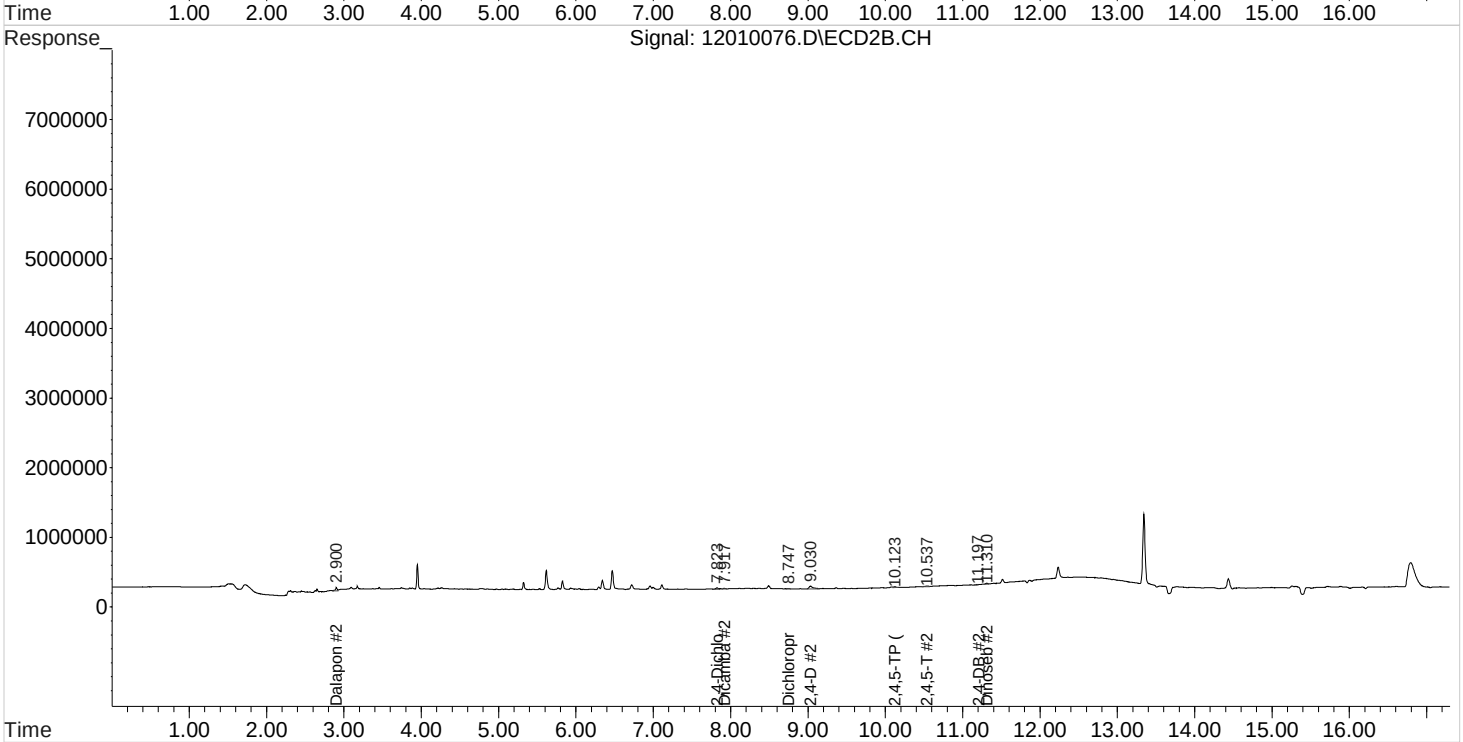
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010076.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:57 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: Dec 03 10:04:17 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





1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010084.D\
Lab ID: KQ2019199-10
RunType: CCB
Matrix: Sediment

Date Acquired: 12/3/20 01:00:00
Batch ID: 705654
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: _____

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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010084.D\	**Instrument:**	K-GC-24
Acqu Date:	12/3/20 01:00:00	**Vial:**	14
Run Type:	CCB	**Dilution:**	1
Lab ID:	KQ2019199-10	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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 +0.02	7914	59829	0.435	1.414				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 +0.02	10.14 +0.02	12022	25632	0.128	0.126	0.21U	0.21U	2.4 U	Y
2,4-D	9.35 +0.05	9.04 -0.01	1164	149145	0.055	2.913	0.092U	4.9U	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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010084.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Dec 2020 1:00 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: Dec 03 10:07:06 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 17:31:59 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	7.832	7914	59829	0.435	1.414	#
		Target Compounds							
1)	m	Dalapon	0.000	2.902f	0	81563	N.D. d	1.688	
3)	m	Dicamba	8.209	7.926	9502	16724	0.136	0.113	
4)	m	MCPP	0.000	8.122	0	13253	N.D.	N.D.	
5)	m	MCPA	8.525	8.372	7880	12794	134.580	N.D.	#
6)	m	Dichloroprop	8.962	8.759	5986	11792	0.321	0.283	
7)	m	2,4-D	9.345	9.042	1164	149145	0.055	2.913	#
8)	m	2,4,5-TP ...	10.259	10.139	12022	25632	0.128	0.126	
9)	m	2,4,5-T	10.709	10.556	11437	29648	0.139	0.155	
10)	m	2,4-DB	11.269	11.122	29616	13780	2.887	0.475	#
11)	m	Dinoseb	11.679	11.329	14215	33551	0.230	0.245	

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

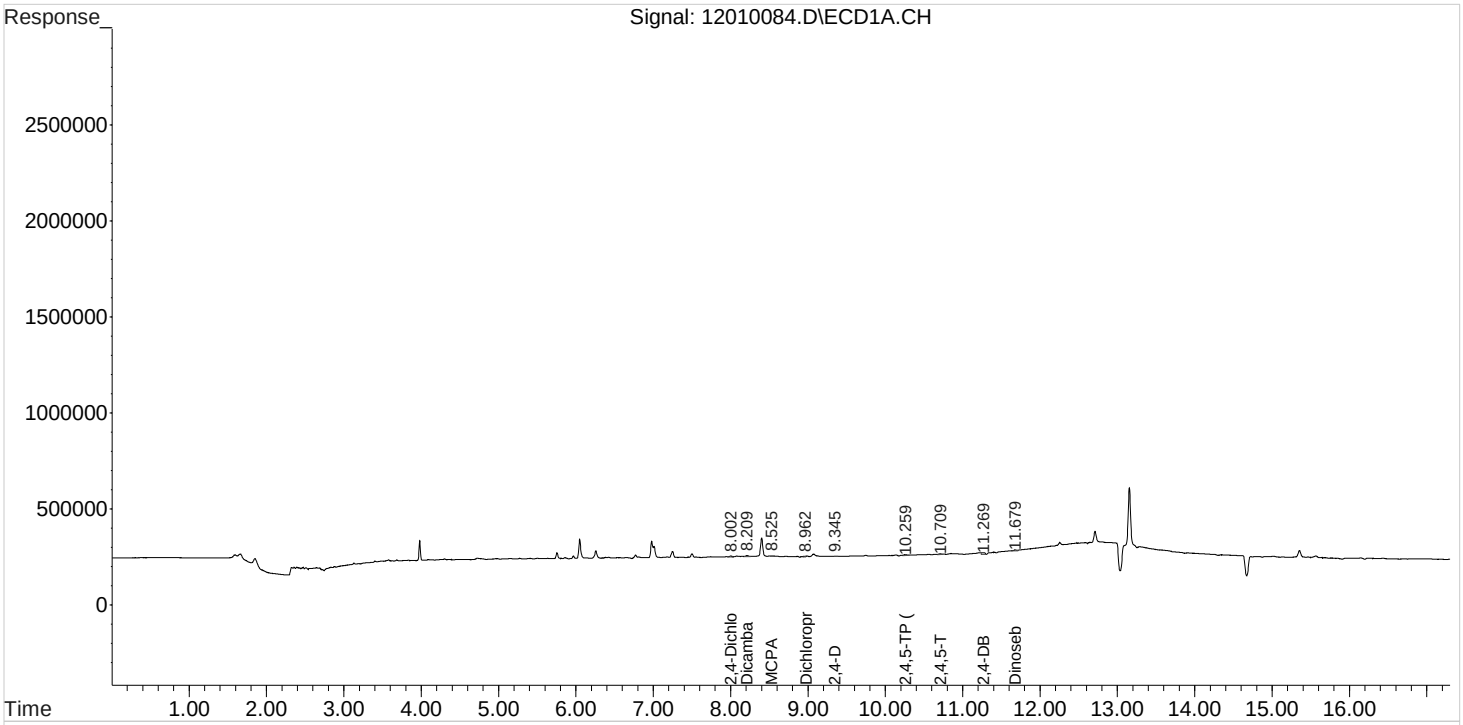
Quantitation Report (QT Reviewed)

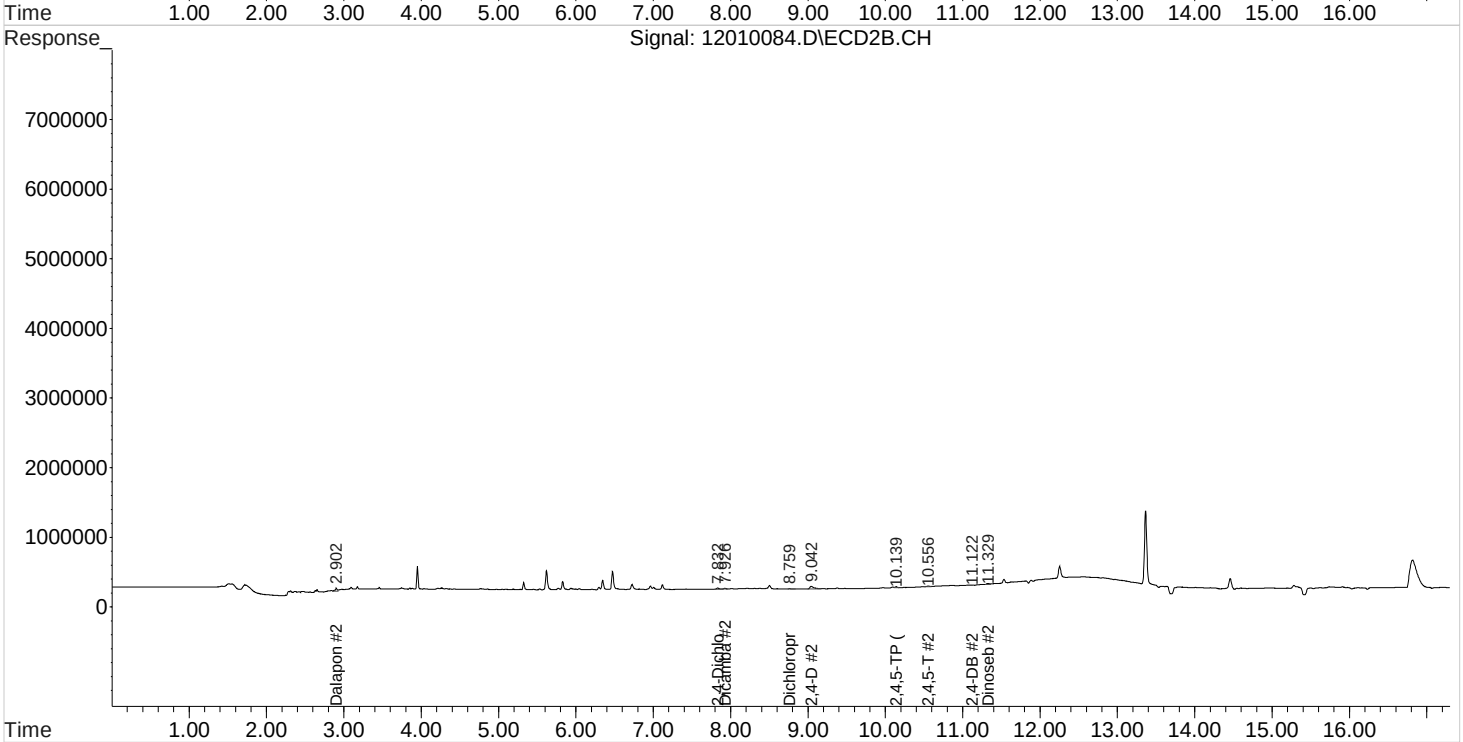
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010084.D Vial: 2
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Dec 2020 1:00 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: Dec 03 10:07:06 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 17:31:59 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





1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010028.D\
Lab ID: KQ2019138-01
RunType: CCV
Matrix: Sediment

Date Acquired: 12/2/20 03:38:00
Batch ID: 705487
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010028.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 03:38:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019138-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705487	**Prep Lot:**		**Report Group:**	KQ2019138
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	1559806	4715157	85.720	111.475			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	10.26	10.14	7620185	22453949	81.342	110.612	81.3	111	Y
2,4-D	9.32	9.07	1599713	5076286	75.316	99.149	75.3	99.1	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

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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010028.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:38 am Operator: UA
Sample : ~~IB~~* *PENTA2-14N 100 ppb Inst : HP G1530A
Misc : *CCV - Vials switched on instrument Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P *ES 12/2/2020
Quant Time: Dec 02 10:47:58 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...	7.991	7.824	1559806	4715157	85.720	111.475 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.318	9.068	1599713	5076286	75.316	99.149 #
8)	m	2,4,5-TP ...	10.258	10.138	7620185	22453949	81.342	110.612 #
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

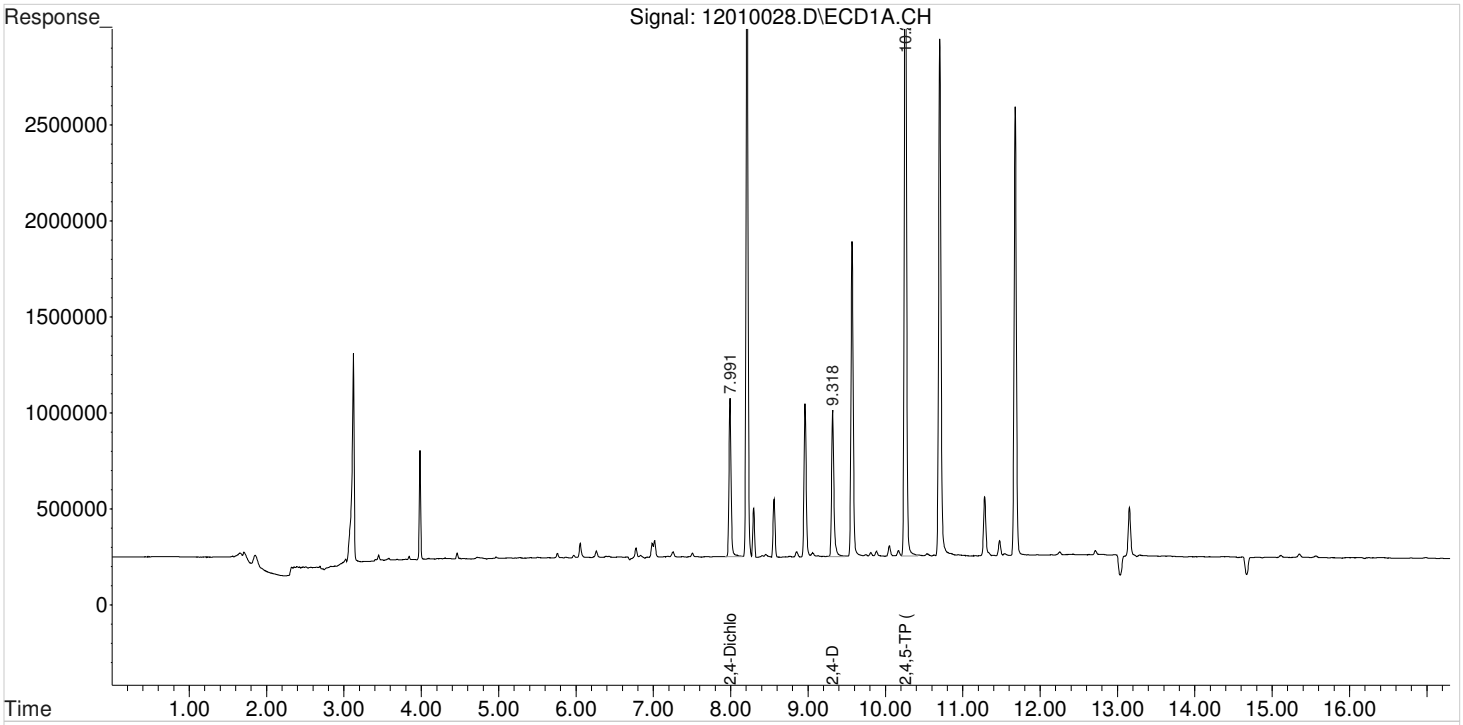
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

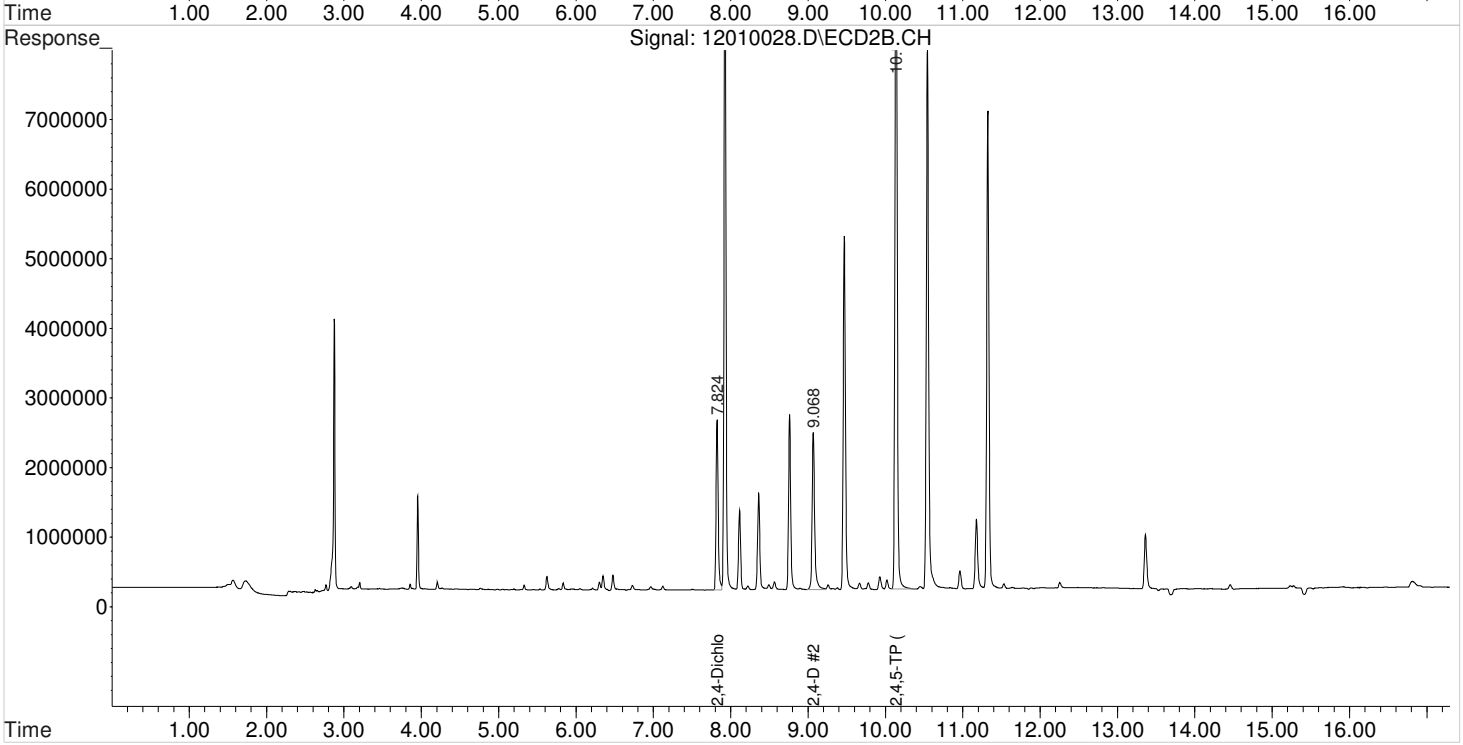
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010028.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 3:38 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: Dec 02 10:47:58 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





1st 12/02/20
2nd 12/02/20

Validation Report

Data File: J:\gc24\data\120120\12010040.D\
Lab ID: KQ2019199-01
RunType: CCV
Matrix: Sediment

Date Acquired: 12/2/20 08:13:00
Batch ID: 705654
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: _____

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Secondary Review: _____

1st 12/02/20
2nd 12/02/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010040.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 08:13:00	**Vial:**	1
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019199-01	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	1552751	4828815	85.332	114.162			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	10.26	10.14	7637950	23040649	81.531	113.502	81.5	114	Y
2,4-D	9.32	9.07	1610845	5182812	75.840	101.230	75.8	101	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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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:13 am Operator: UA
Sample : ~~IB~~* *PENTA2-14N 100 ppb Inst : HP G1530A
Misc : *CCV - Vials switched on instrument Multiplr: 1.00
Integration File signal 1: RTEINT.P
Integration File signal 2: RTEINT2.P *ES 12/2/2020
Quant Time: Dec 02 11:56:14 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...	7.988	7.822	1552751	4828815	85.332	114.162 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.315	9.065	1610845	5182812	75.840	101.230 #
8)	m	2,4,5-TP ...	10.255	10.139	7637950	23040649	81.531m	113.502m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

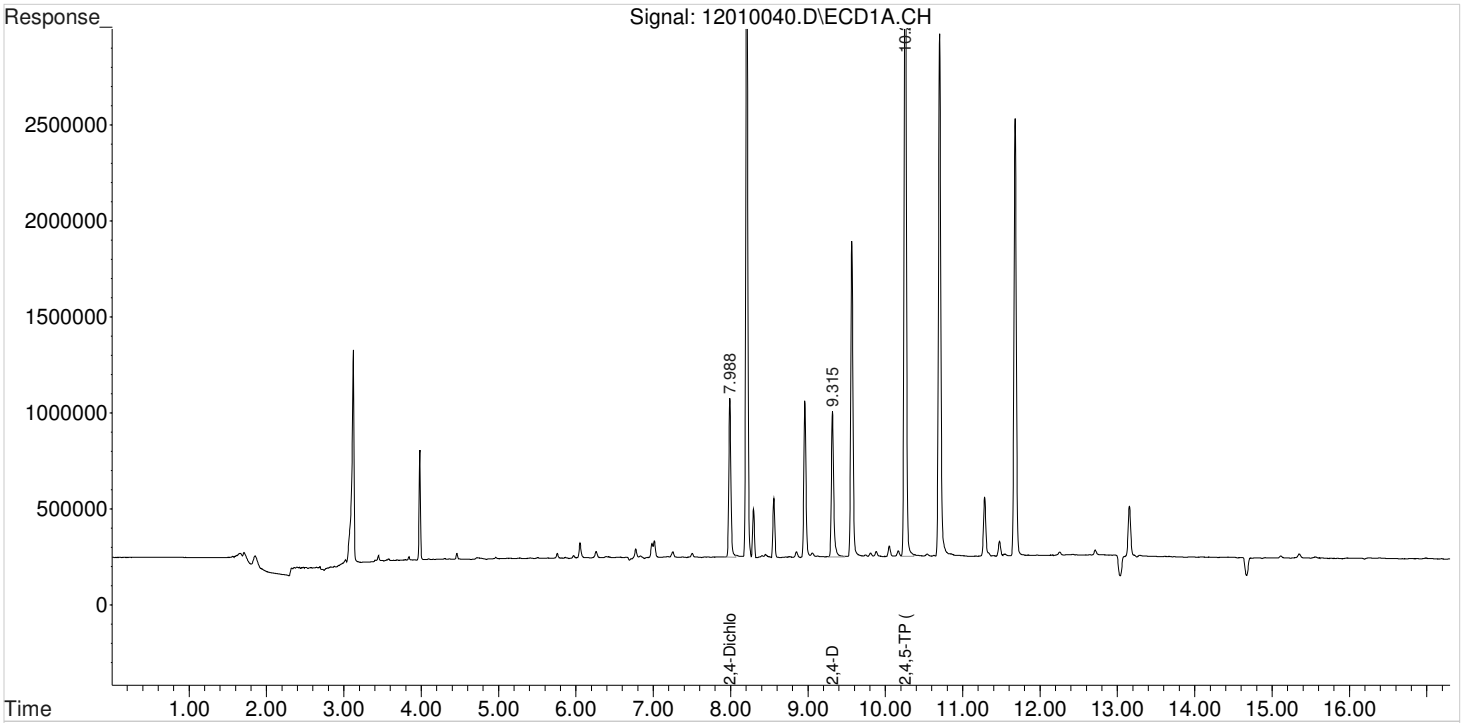
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

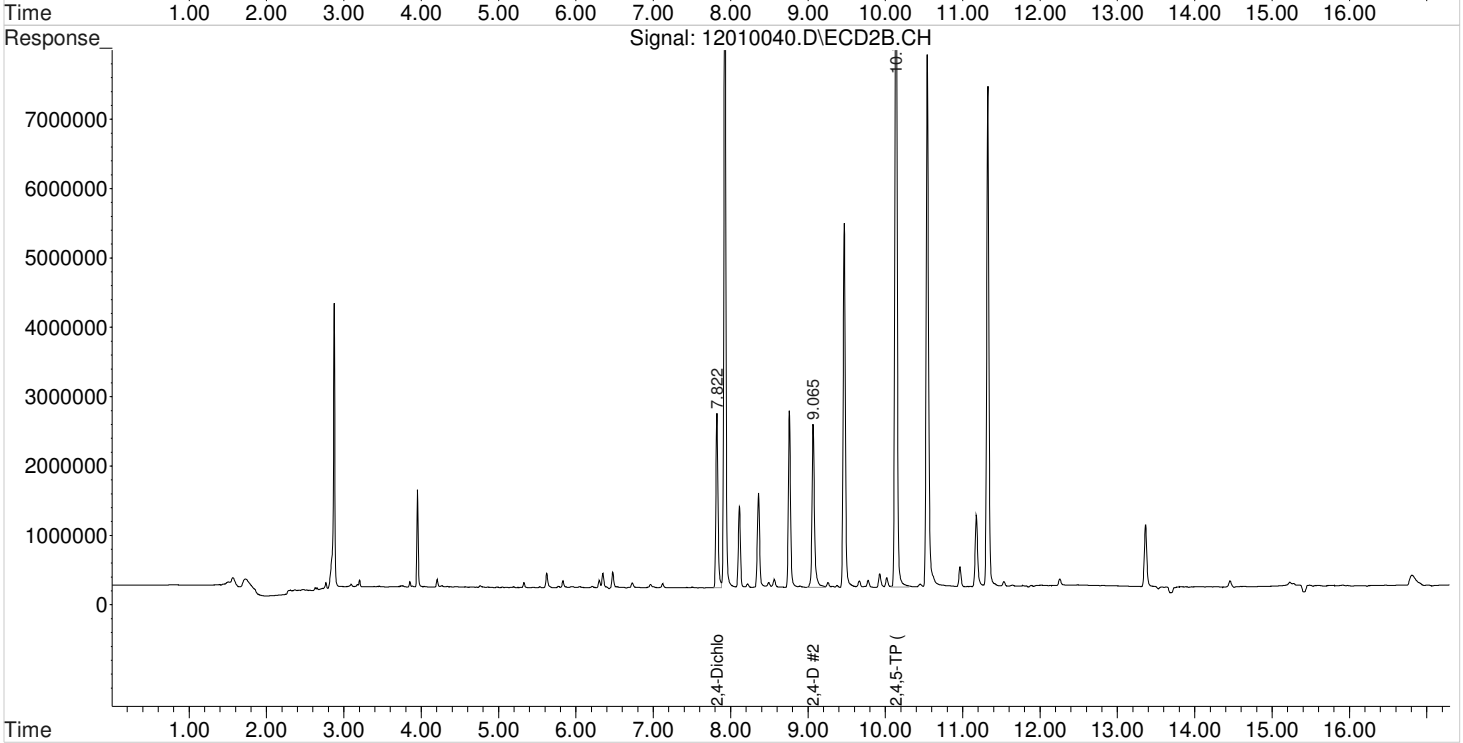
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:13 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: Dec 02 11:56:14 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





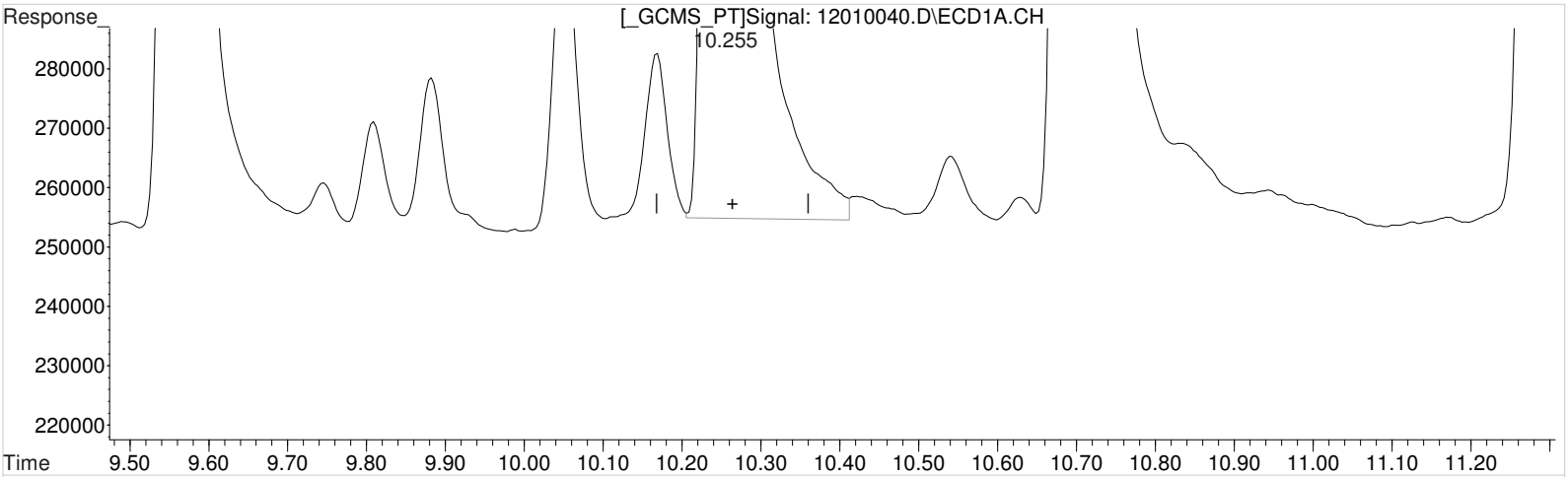
Quantitation Report (Qedit)

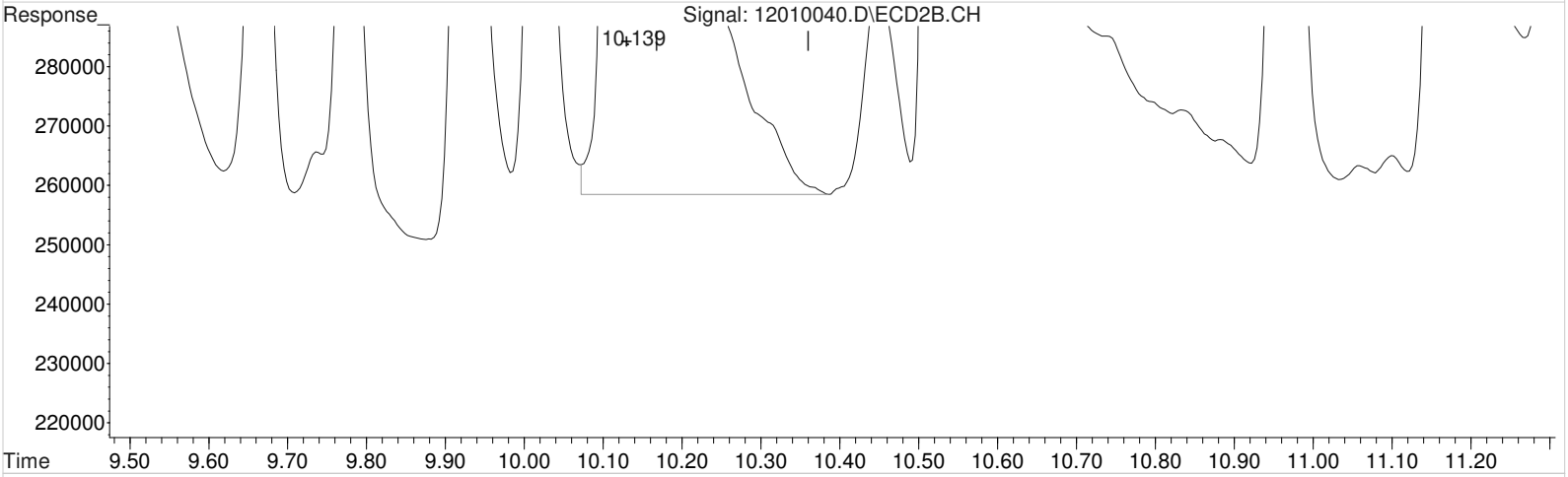
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:13 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: Dec 02 10:38:22 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.255min 81.602 ppb

response 7644614

(8) 2,4,5-TP (Silvex) #2 (m)

10.139min 113.419 ppb

response 23023903

Manual Integration:

Before

12/02/20

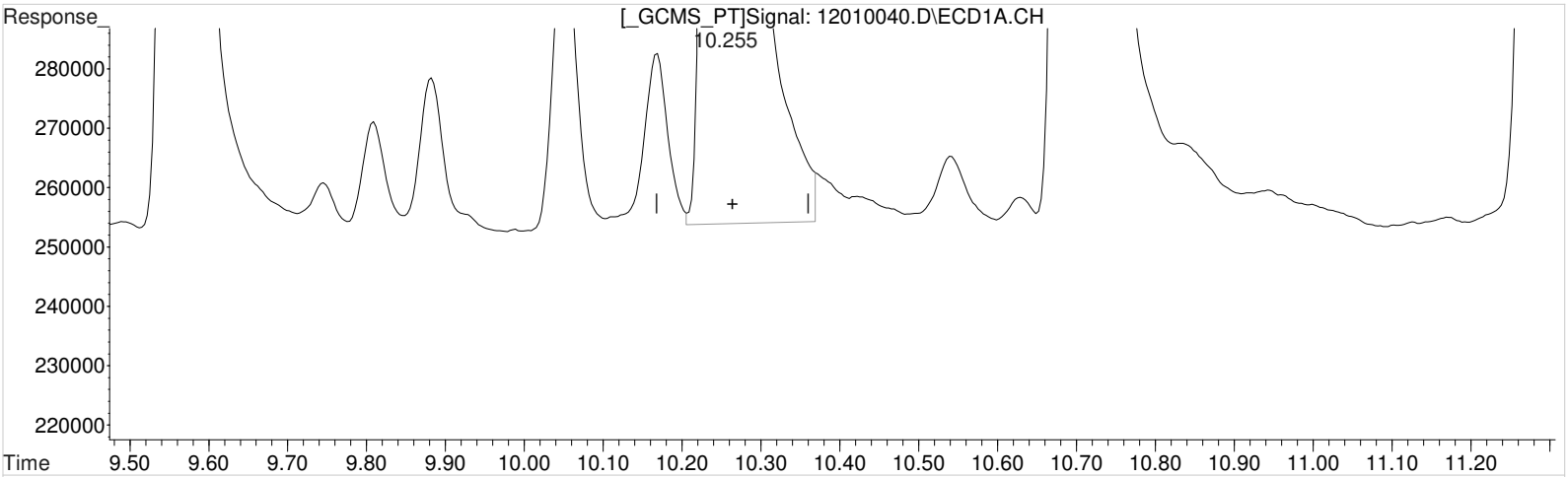
(+) = Expected Retention Time

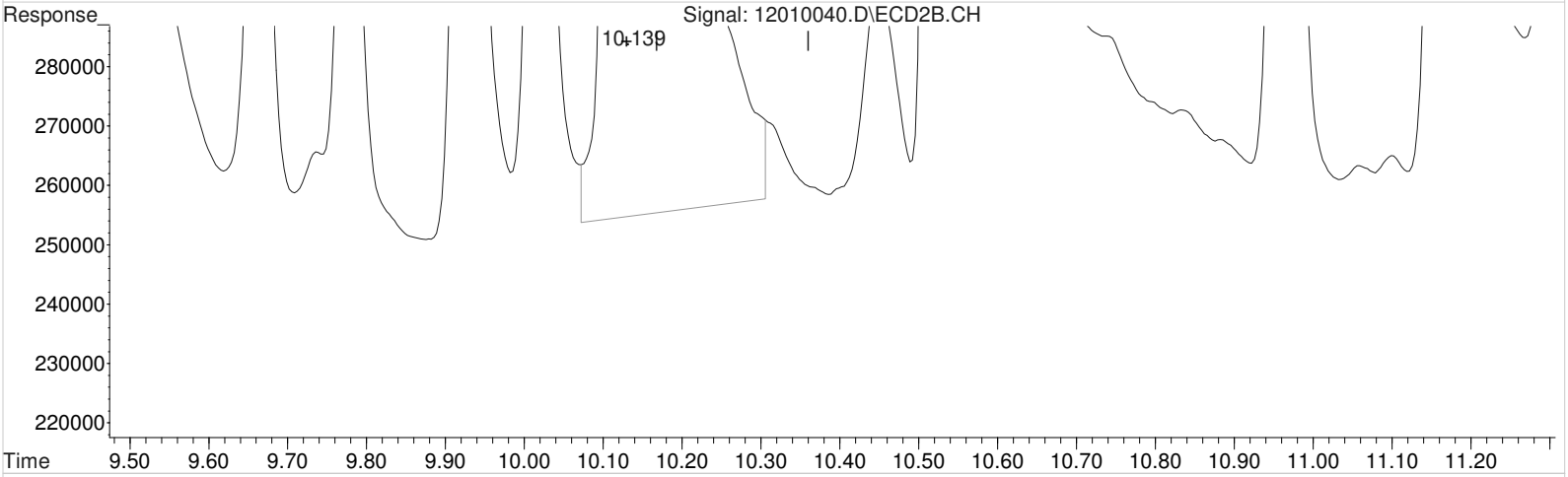
1st 12/02/20
2nd 12/02/20

Data File : J:\gc24\data\120120\12010040.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 8:13 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: Dec 02 10:38:22 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.255min 81.531 ppb m

response 7637950

(8) 2,4,5-TP (Silvex) #2 (m)

10.139min 113.502 ppb m

response 23040649

Manual Integration:

After

Baseline/Shoulder

12/02/20

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010051.D\
Lab ID: KQ2019199-03
RunType: CCV
Matrix: Sediment

Date Acquired: 12/2/20 12:25:00
Batch ID: 705654
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: _____

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Secondary Review: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010051.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 12:25:00	**Vial:**	19
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019199-03	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	1557669	4762359	85.602	112.591			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	7646510	22854297	81.623	112.584	81.6	113	Y
2,4-D	9.31	9.06	1600985	5136864	75.375	100.332	75.4	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

Printed: 12/3/20 17:23
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Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:42:54 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	1557669	4762359	85.602	112.591 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.310	9.061	1600985	5136864	75.375m	100.332 #
8)	m	2,4,5-TP ...	10.250	10.131	7646510	22854297	81.623	112.584m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

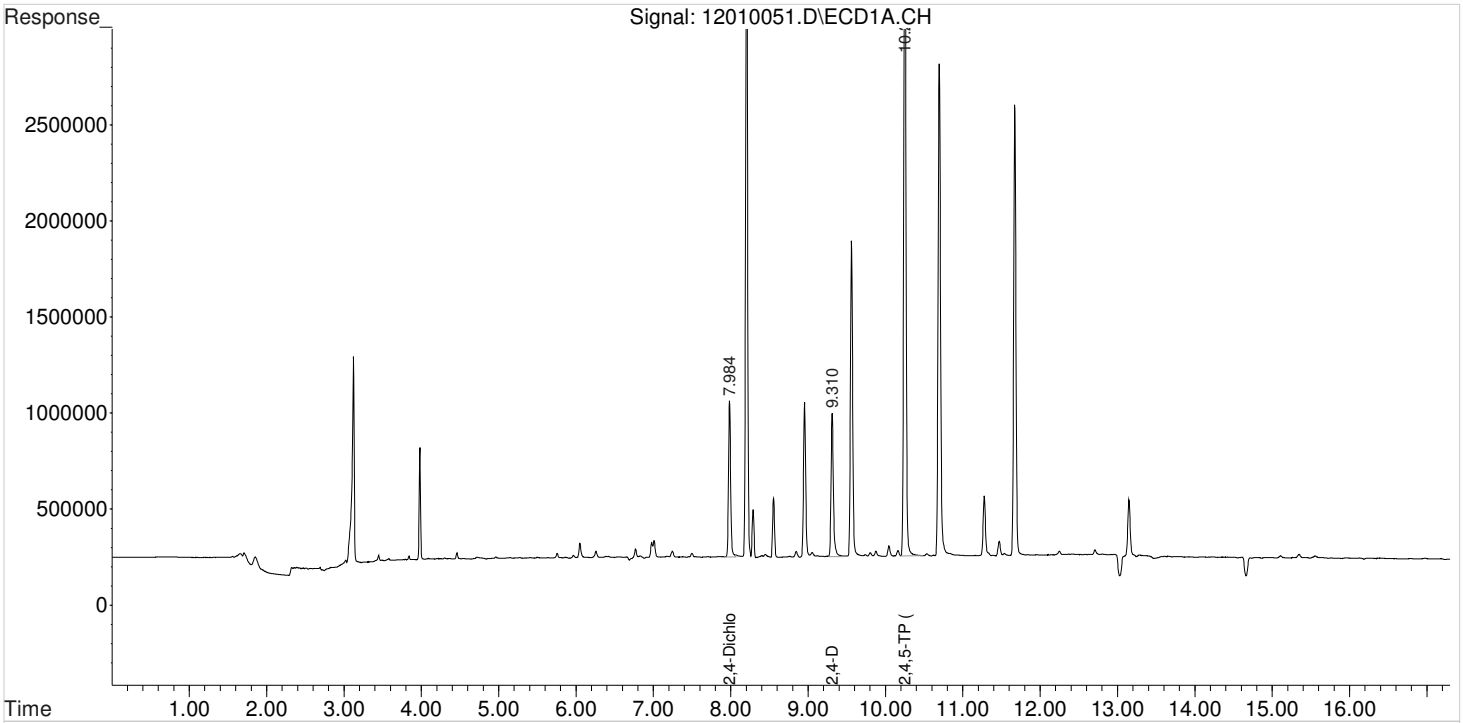
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

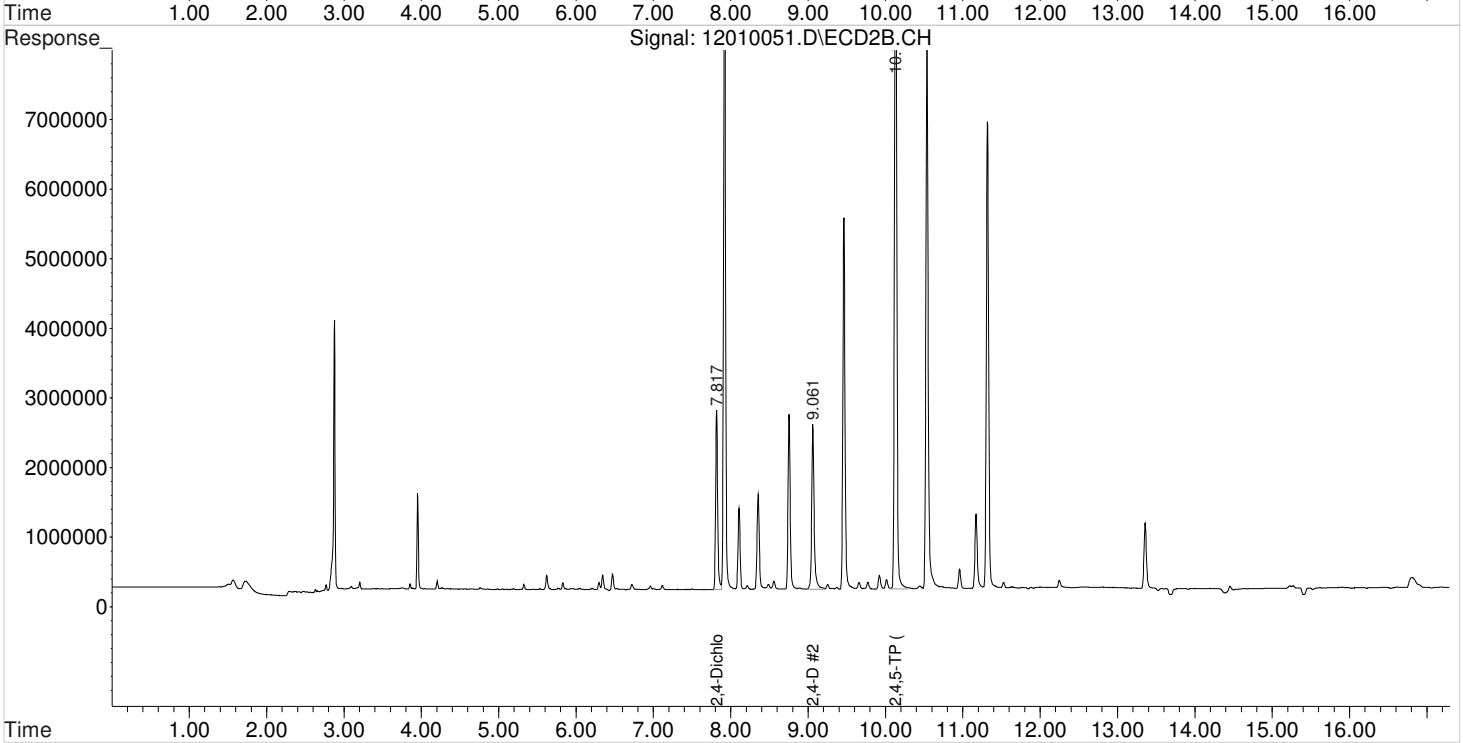
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:42:54 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



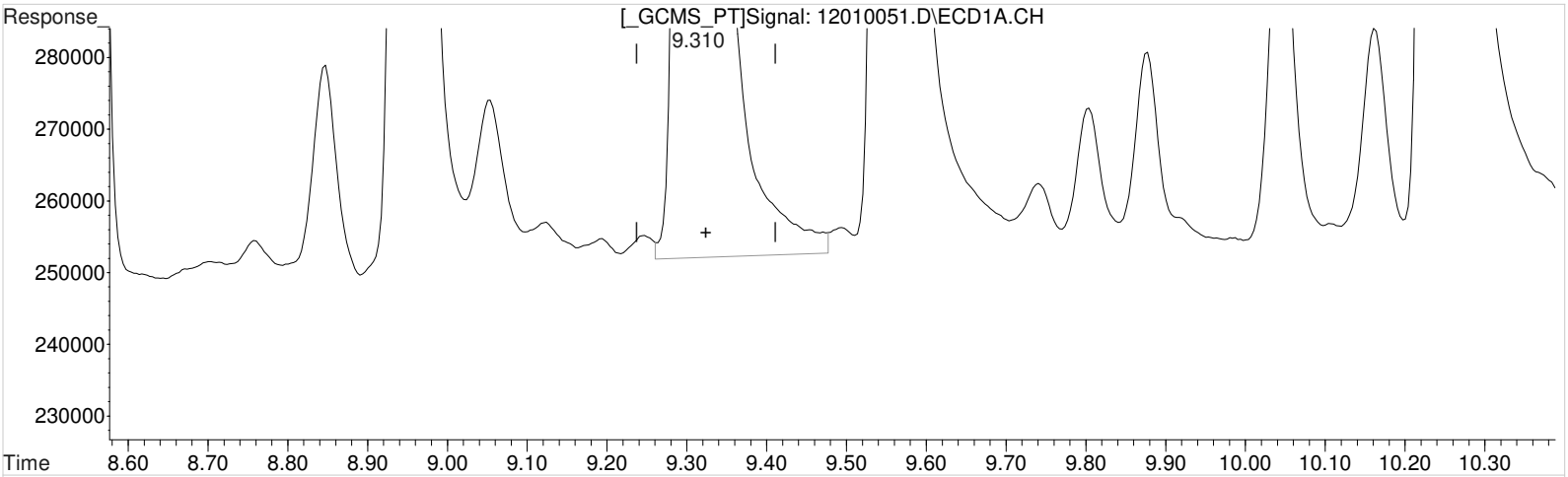


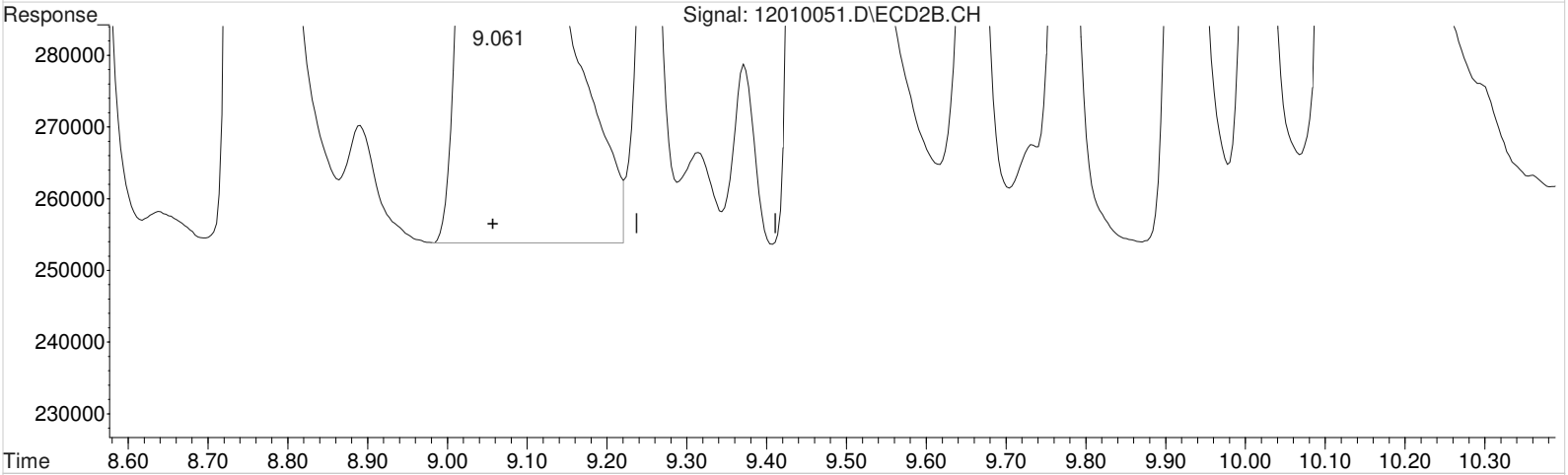
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:32:38 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





QEdit

(7) 2,4-D (m)

9.310min 75.942 ppb

response 1613017

(7) 2,4-D #2 (m)

9.061min 100.332 ppb

response 5136864

Manual Integration:

Before

12/02/20

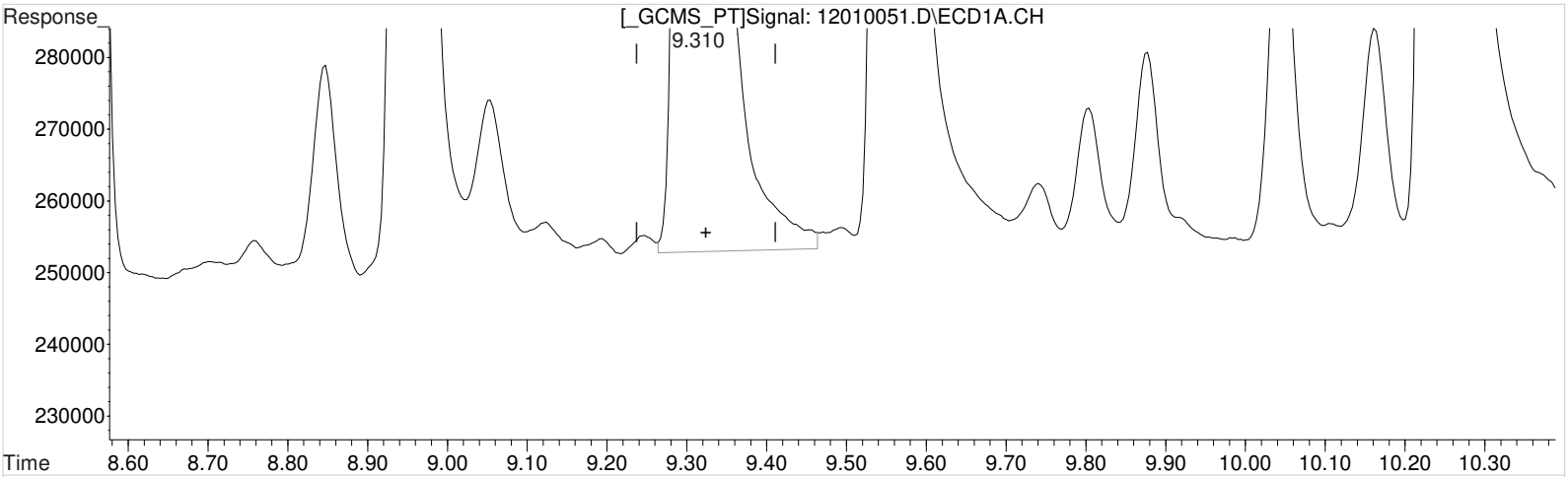
(+) = Expected Retention Time

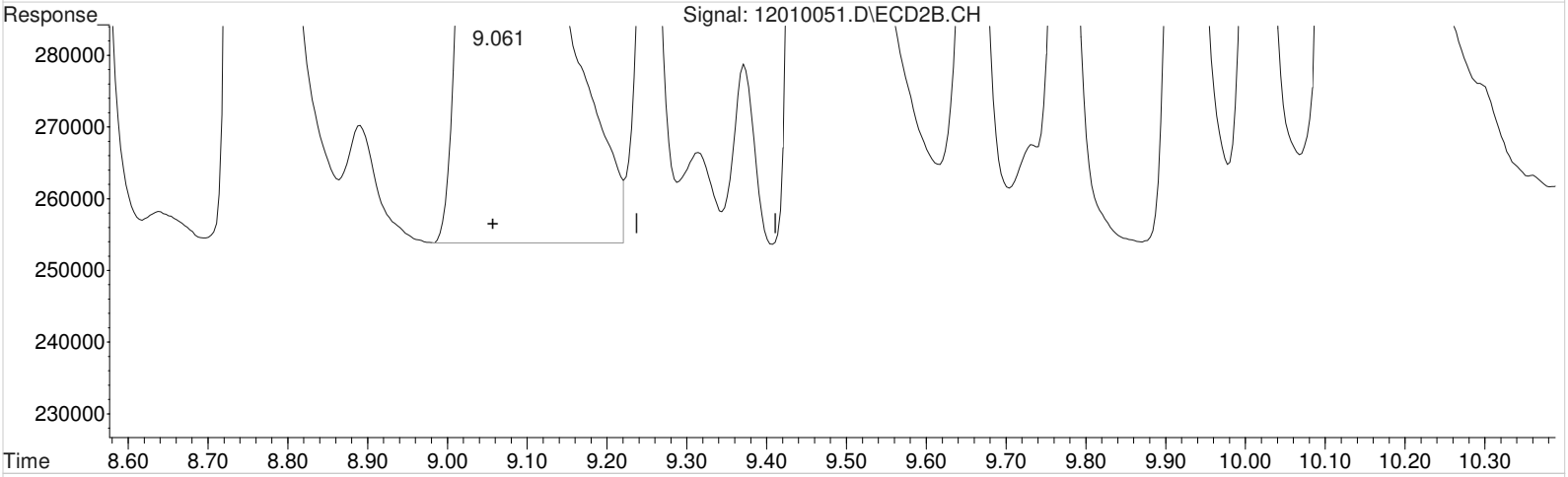
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:32:38 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





QEdit

(7) 2,4-D (m)

9.310min 75.375 ppb m

response 1600985

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.061min 100.332 ppb

response 5136864

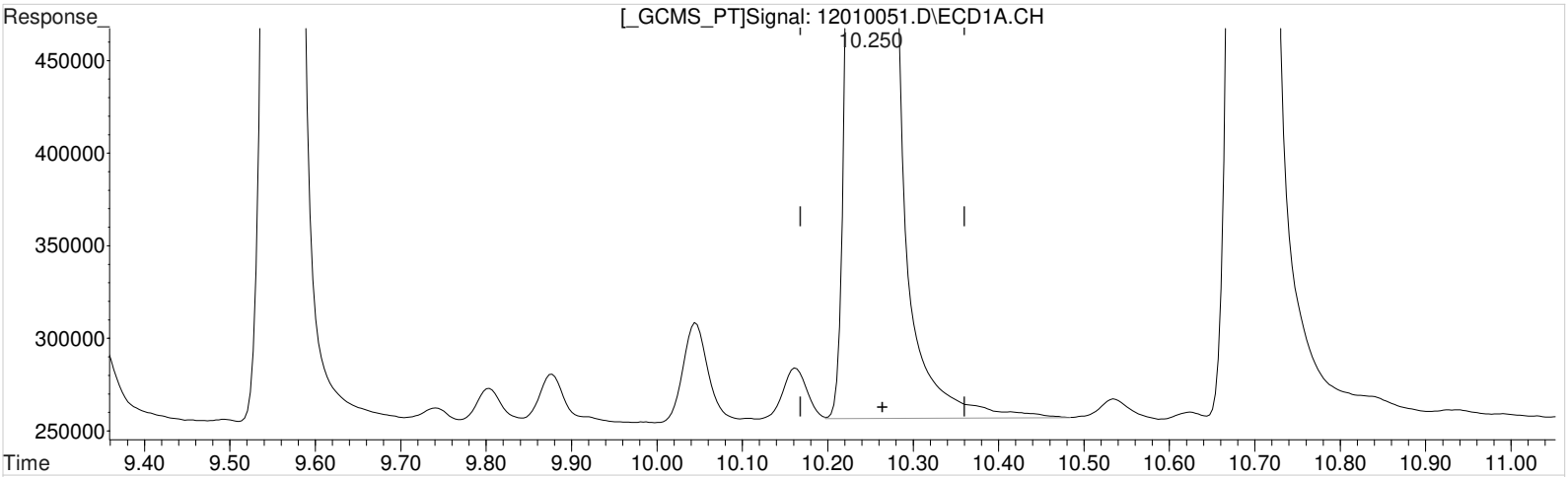
(+) = Expected Retention Time

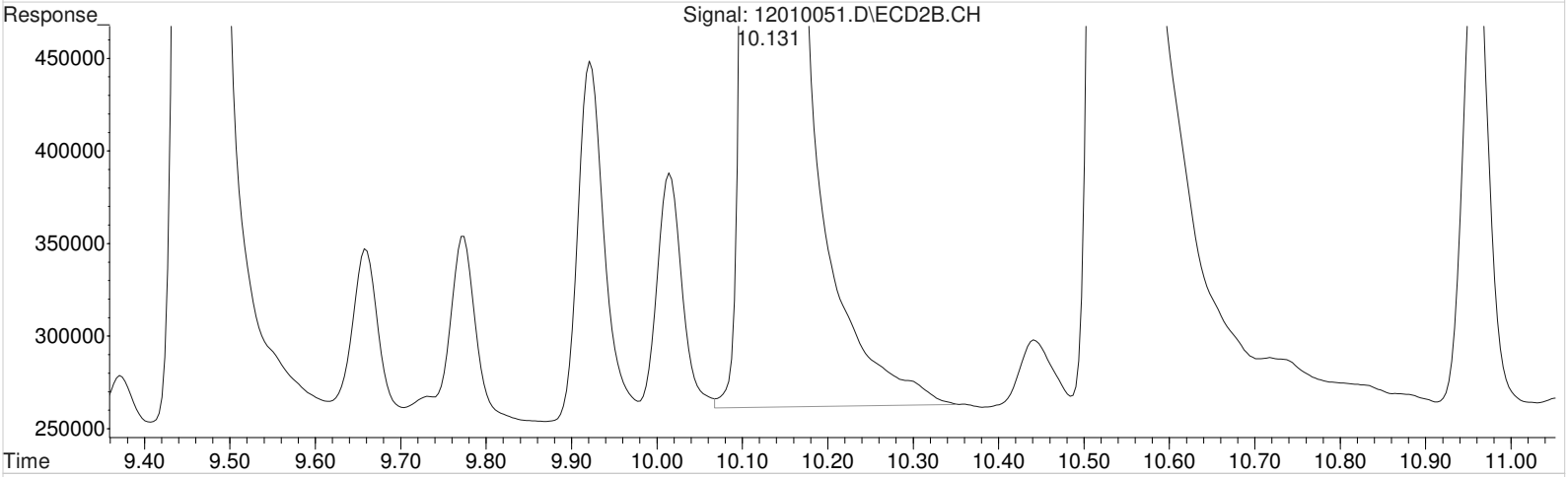
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:35:48 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 81.623 ppb

response 7646510

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.131min 112.359 ppb

response 22808601

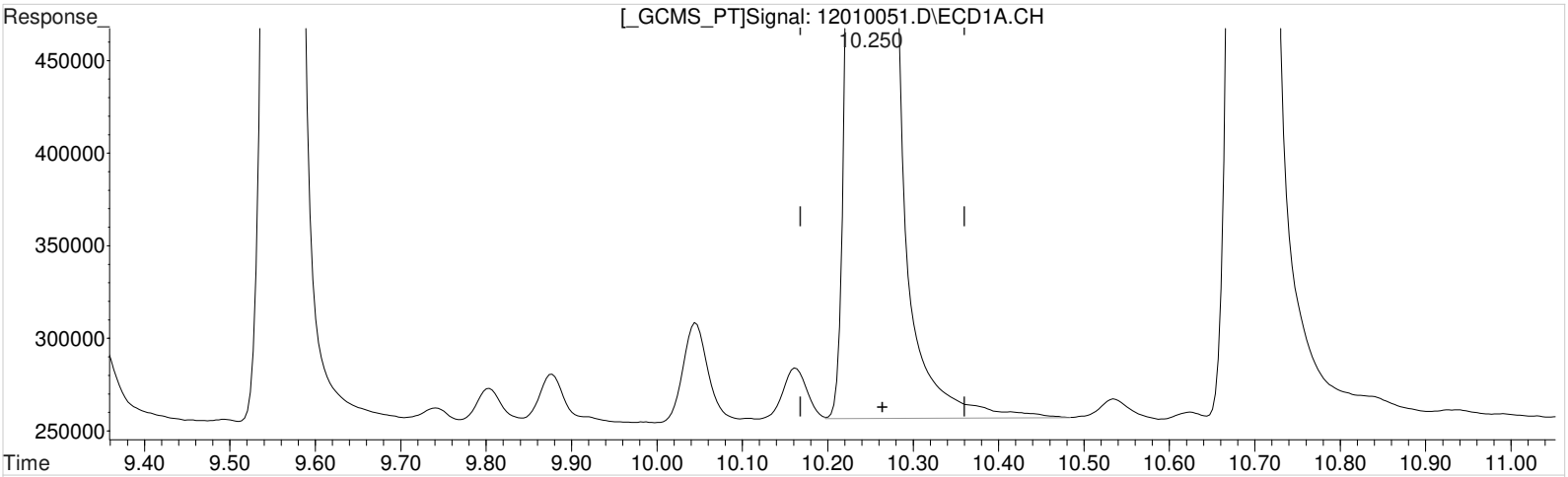
(+) = Expected Retention Time

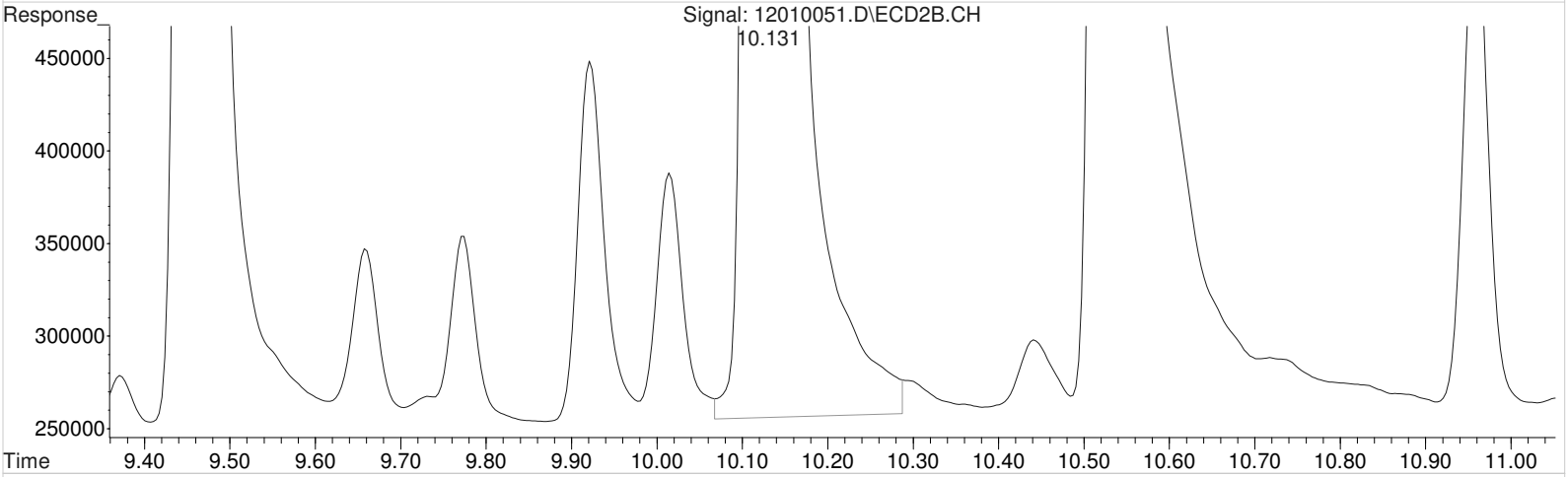
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010051.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 12:25 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: Dec 02 14:35:48 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.250min 81.623 ppb

response 7646510

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.131min 112.584 ppb m

response 22854297

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010063.D\
Lab ID: KQ2019199-05
RunType: CCV
Matrix: Sediment

Date Acquired: 12/2/20 17:00:00
Batch ID: 705654
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: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010063.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 17:00:00	**Vial:**	21
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019199-05	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/9/20	**Receive Date:**	11/11/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.81	1546512	4914240	84.989	116.182			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	10.24	10.12	7618798	23356475	81.327	115.058	81.3	115	Y
2,4-D	9.30	9.05	1594933	5237602	75.091	102.300	75.1	102	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: 12/3/20 17:23
\\alprews001\starlims$\LIMSReps\QuantValidation.rpt

Quantitation Report (QT Reviewed)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 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: Dec 02 18:23:48 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...	7.978	7.811	1546512	4914240	84.989	116.182 #
		Target Compounds						
1)	m	Dalapon	0.000	0.000	0	0	N.D. d	N.D. d
3)	m	Dicamba	0.000	0.000	0	0	N.D. d	N.D. d
4)	m	MCPP	0.000	0.000	0	0	N.D. d	N.D. d
5)	m	MCPA	0.000	0.000	0	0	N.D. d	N.D. d
6)	m	Dichloroprop	0.000	0.000	0	0	N.D. d	N.D. d
7)	m	2,4-D	9.301	9.051	1594933	5237602	75.091m	102.300m#
8)	m	2,4,5-TP ...	10.241	10.121	7618798	23356475	81.327m	115.058m#
9)	m	2,4,5-T	0.000	0.000	0	0	N.D. d	N.D. d
10)	m	2,4-DB	0.000	0.000	0	0	N.D. d	N.D. d
11)	m	Dinoseb	0.000	0.000	0	0	N.D. d	N.D. d

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

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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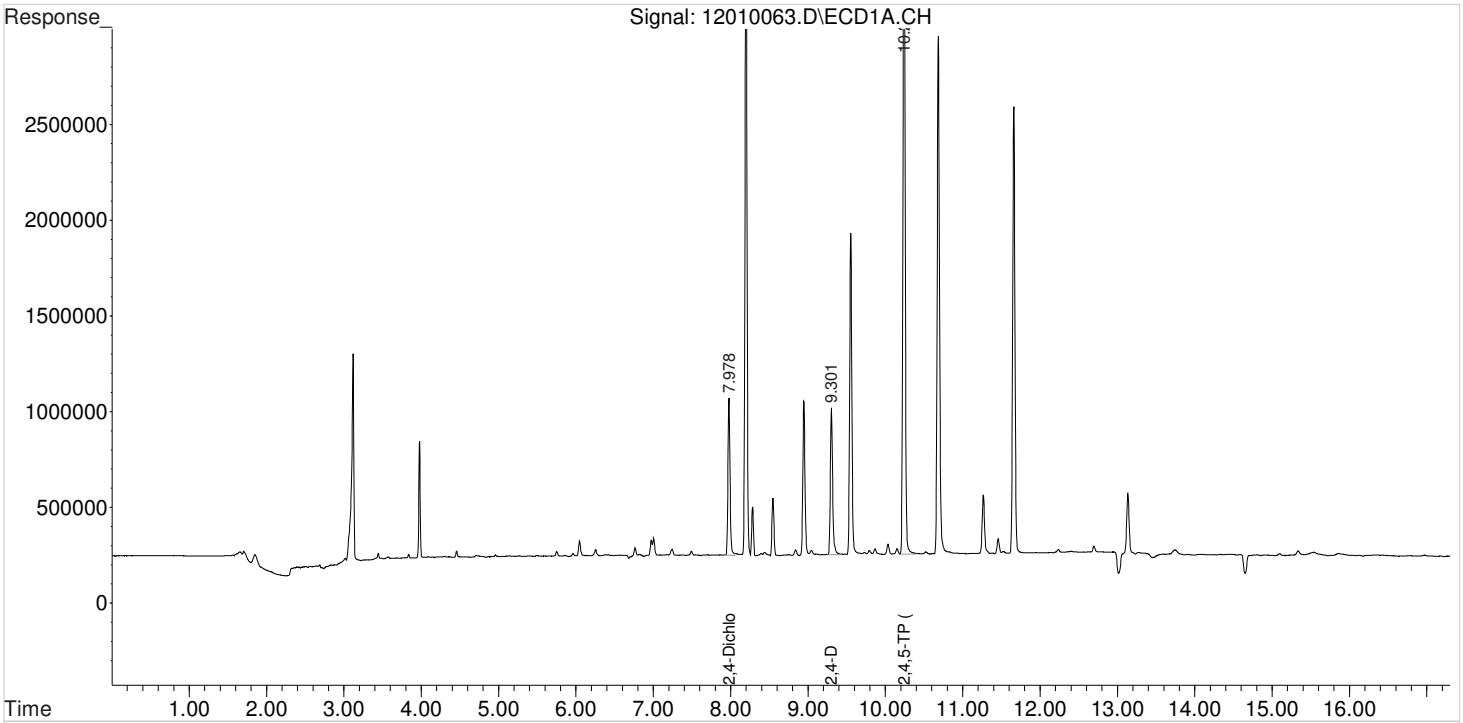
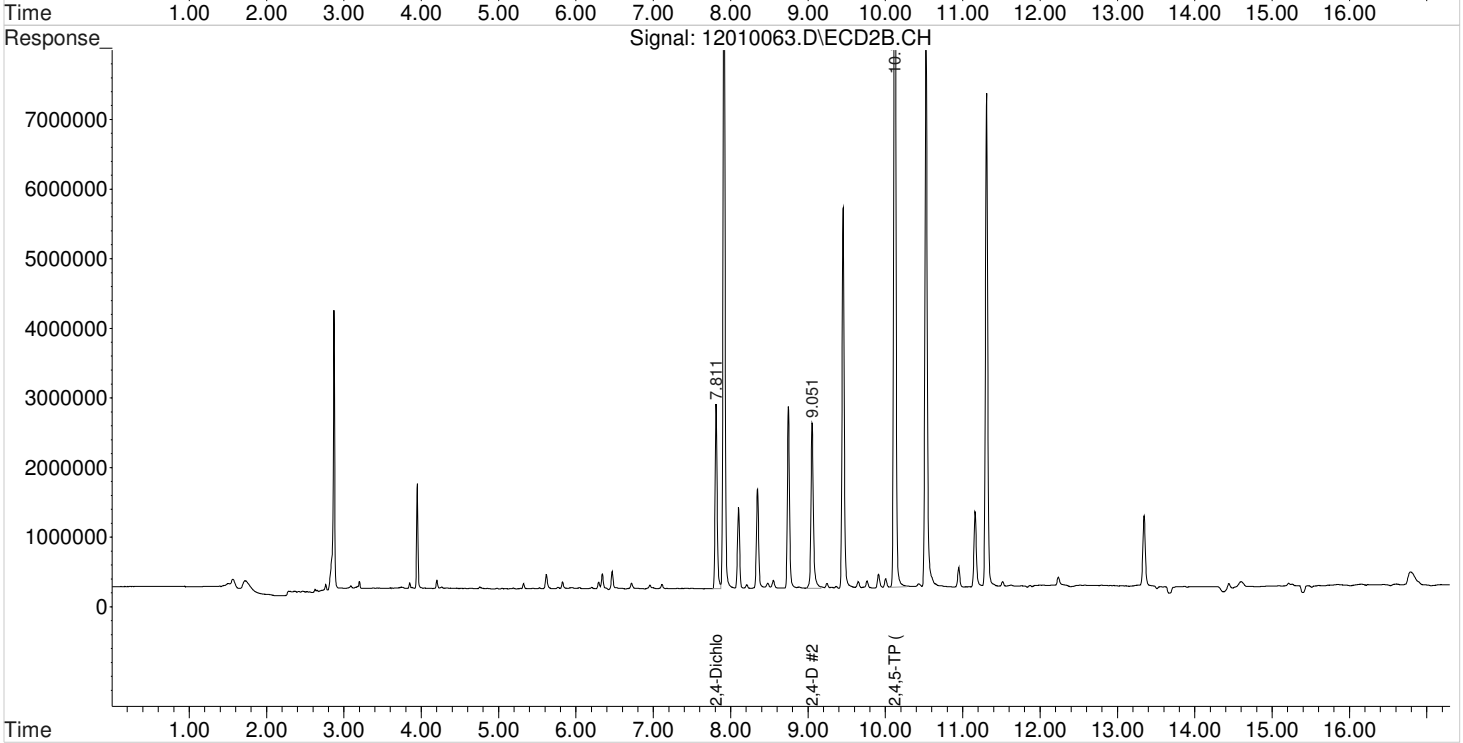
DataAcq Meth:8151A-17.M

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





1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 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: Dec 02 18:19:12 2020
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Quant Title : 103118_8151.m MJ215 CAL_KC1800
QLast Update : Wed Oct 21 17:31:59 2020
Response via : Initial Calibration
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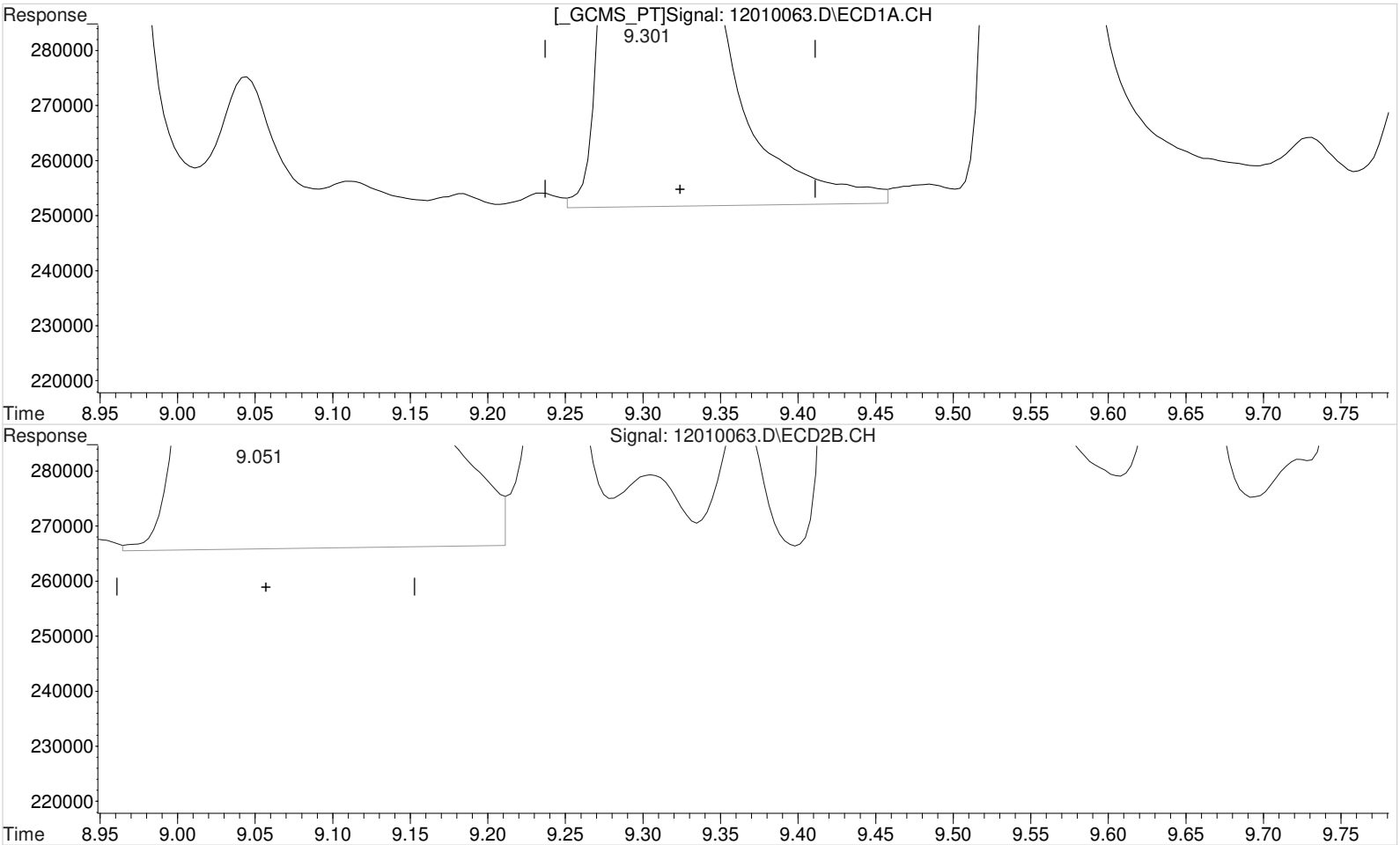
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm



QEdit

(7) 2,4-D (m)

9.301min 75.927 ppb

response 1612690

Manual Integration:

Before

12/02/20

(7) 2,4-D #2 (m)

9.051min 103.015 ppb

response 5274224

(+) = Expected Retention Time

Quantitation Report (Qedit)

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 pm Operator: UA
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Misc : Multiplr: 1.00
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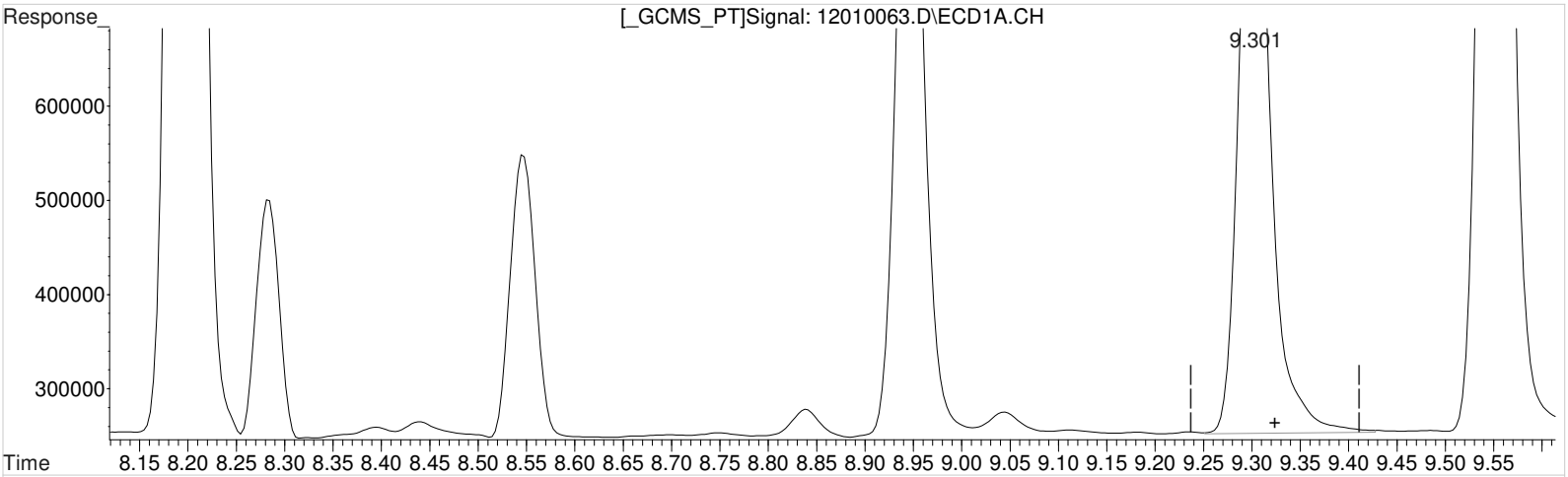
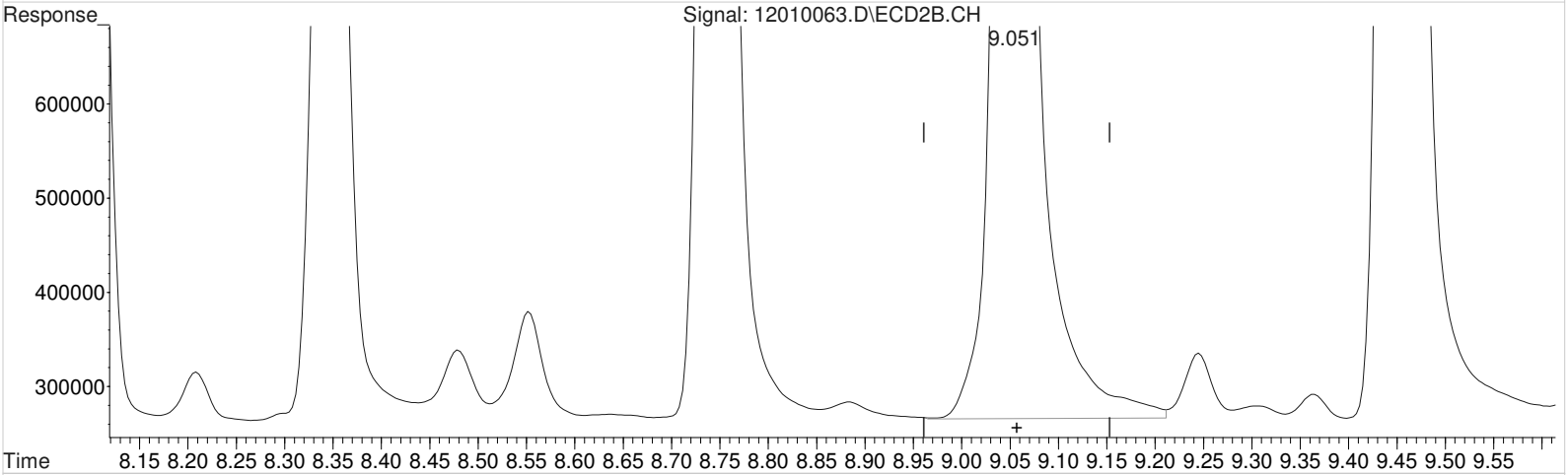
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.301min 75.091 ppb m

response 1594933

(7) 2,4-D #2 (m)

9.051min 103.015 ppb

response 5274224

Manual Integration:

Before

12/02/20

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
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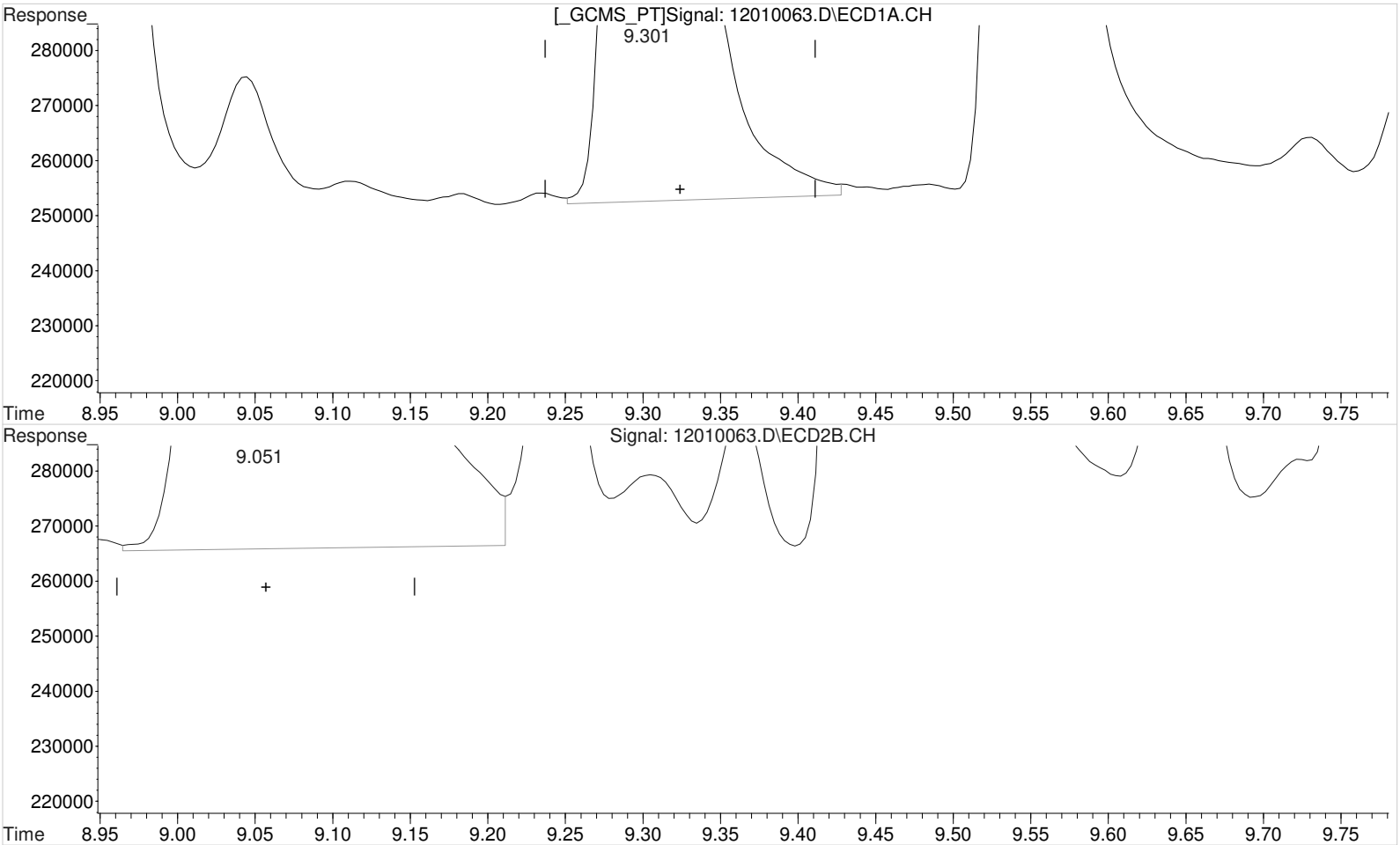
Integration File signal 2: RTEINT2.P
Quant Time: Dec 02 18:19:12 2020
Quant Results File: 102120_8151.RES

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



QEdit

(7) 2,4-D (m)

9.301min 75.091 ppb m

response 1594933

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.051min 103.015 ppb

response 5274224

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
Misc : Multiplr: 1.00
Integration File signal 1: RTEINT.P
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Quant Time: Dec 02 18:19:12 2020
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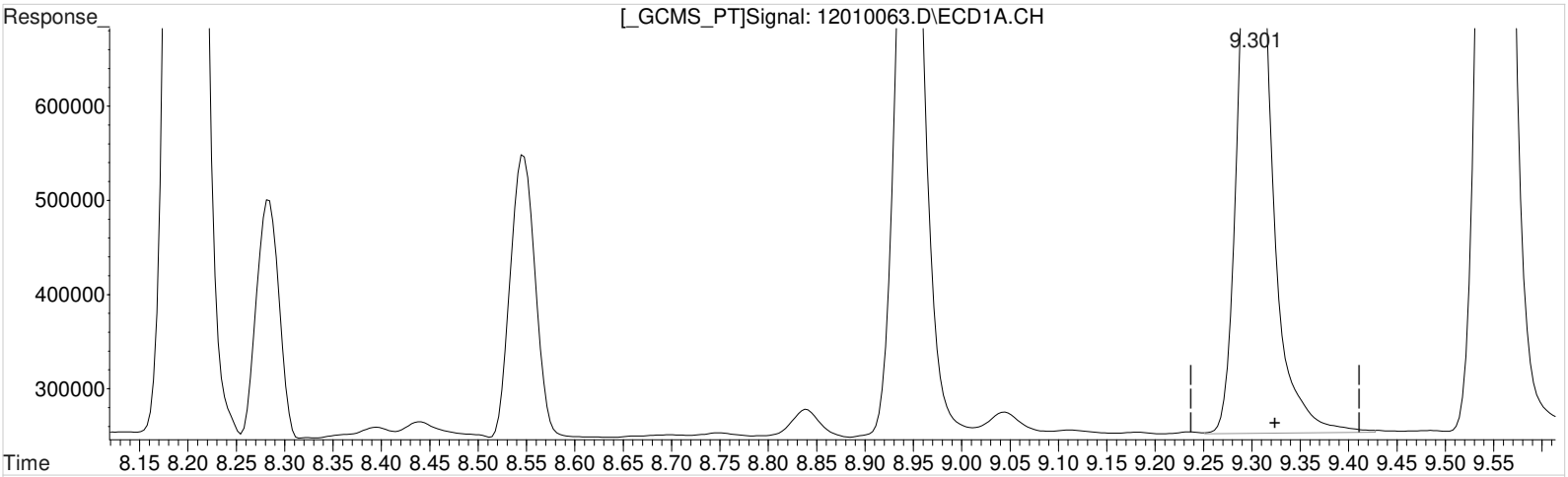
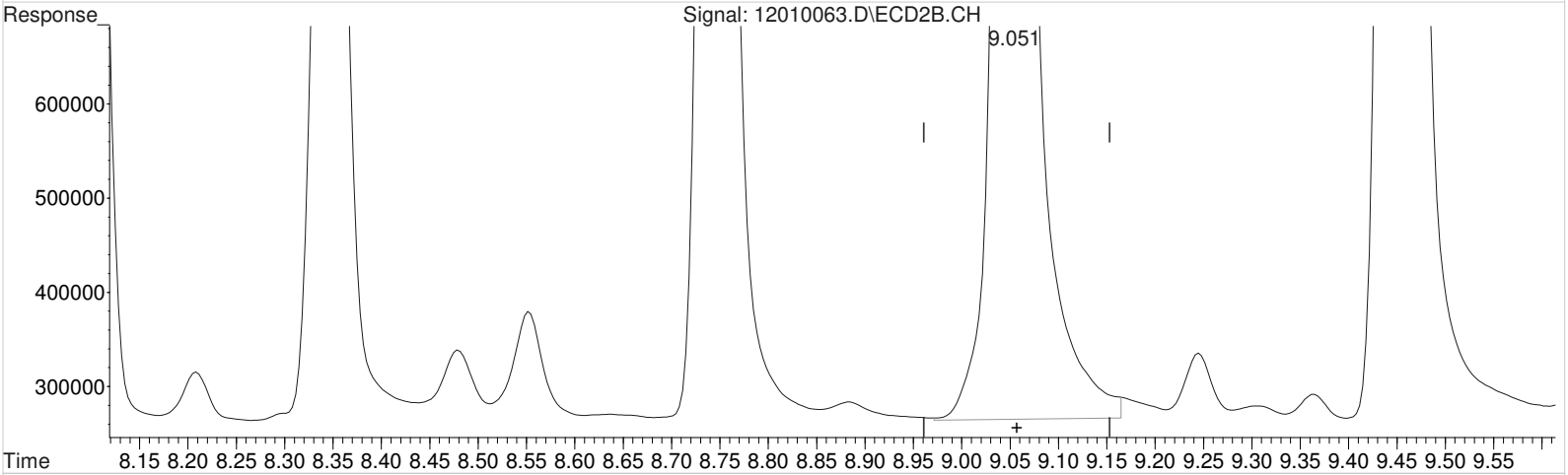
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(7) 2,4-D (m)

9.301min 75.091 ppb m

response 1594933

Manual Integration:

After

Baseline/Shoulder

12/02/20

(7) 2,4-D #2 (m)

9.051min 102.300 ppb m

response 5237602

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 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: Dec 02 18:19:12 2020
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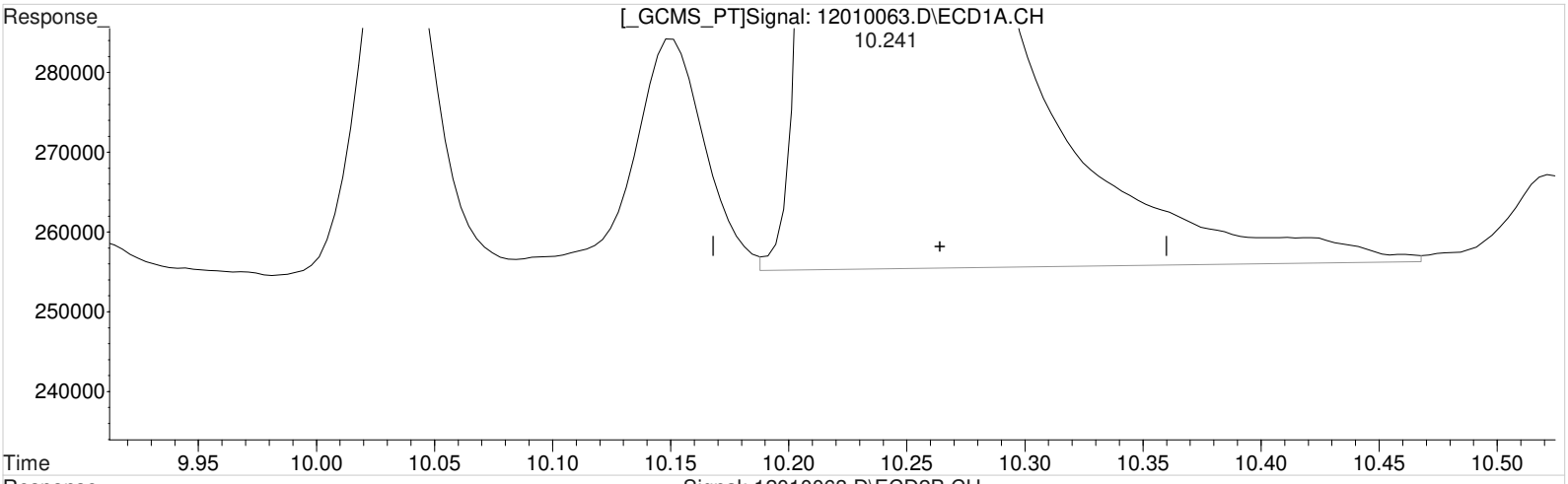
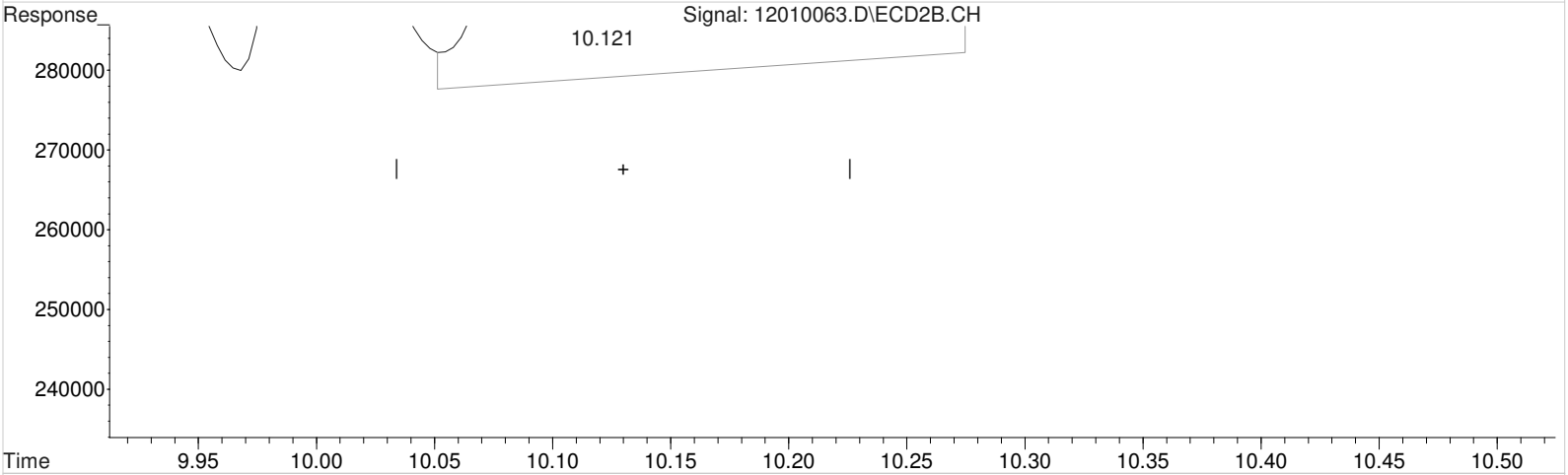
Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLP2 Signal #2 Phase: ZB-XLB-HT
Signal #1 Info : 0.25 mm Signal #2 Info : 0.25 mm





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 81.507 ppb

response 7635681

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.121min 115.304 ppb

response 23406509

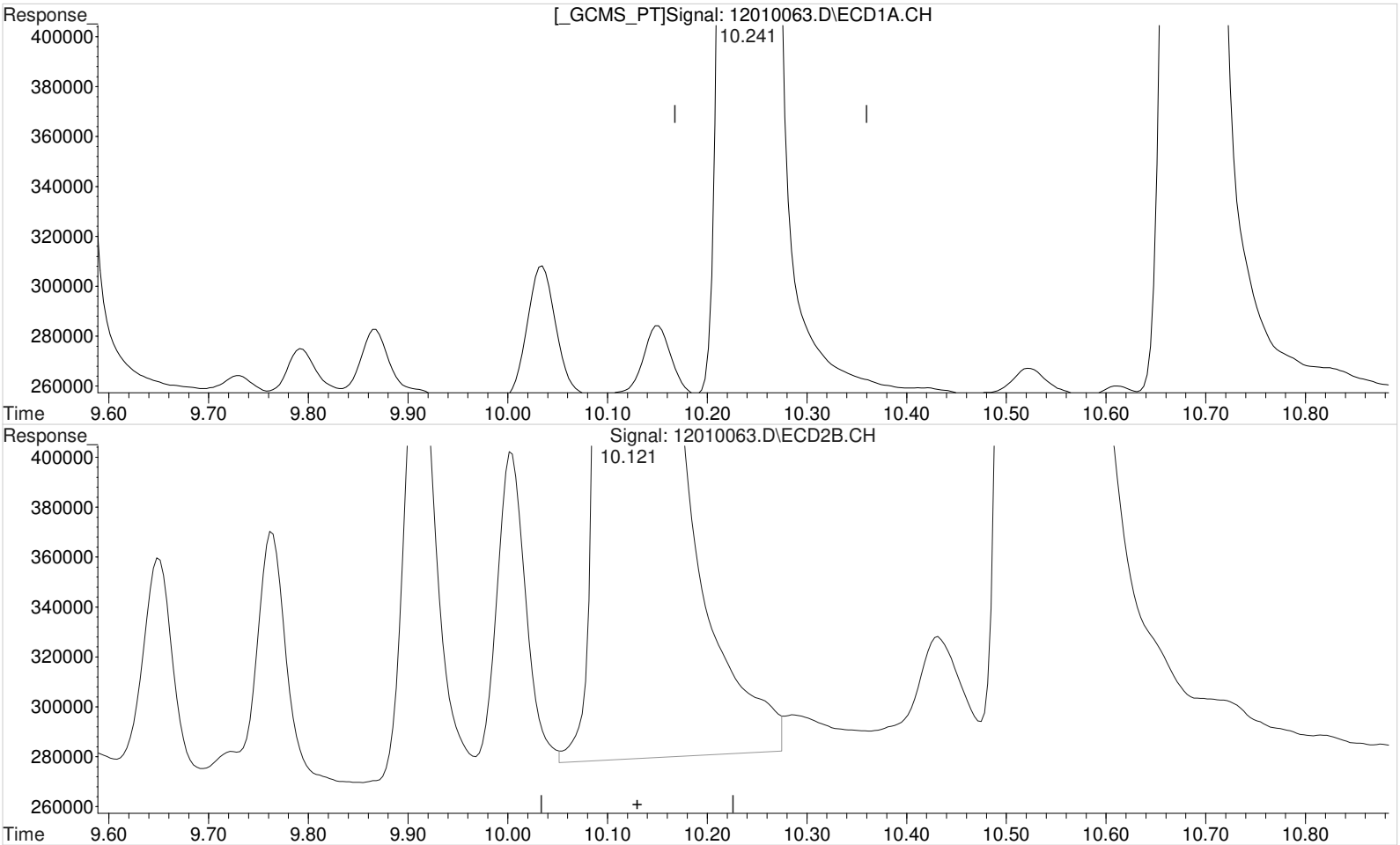
(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 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: Dec 02 18:19:12 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



QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 81.327 ppb m

response 7618798

Manual Integration:

Before

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.121min 115.304 ppb

response 23406509

(+) = Expected Retention Time

1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 pm Operator: UA
Sample : PENTA2-14N 100PB Inst : HP G1530A
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Integration File signal 1: RTEINT.P
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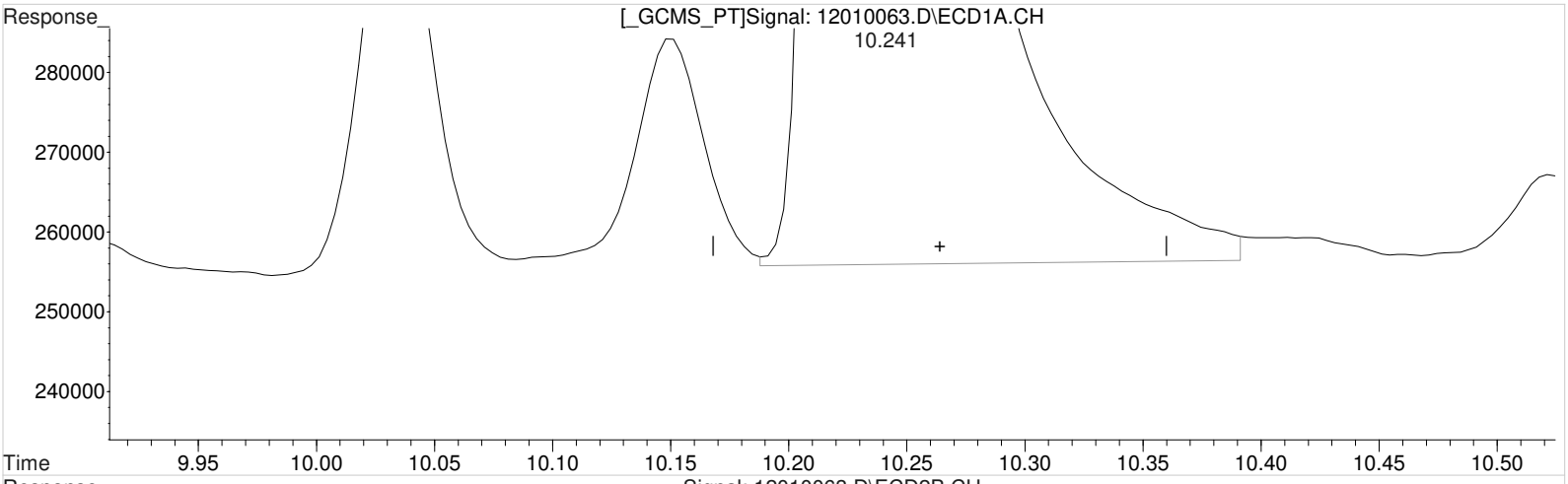
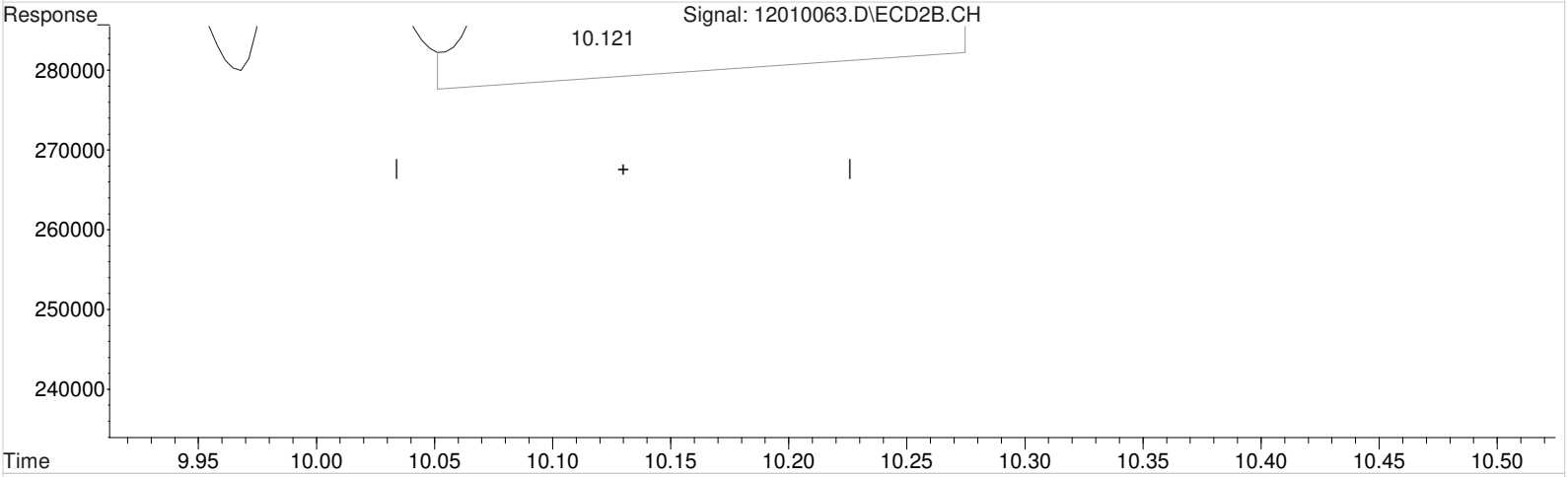
Response via : Initial Calibration
DataAcq Meth:8151A-17.M

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

(8) 2,4,5-TP (Silvex) (m)

10.241min 81.327 ppb m

response 7618798

Manual Integration:

After

Baseline/Shoulder

12/02/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.121min 115.304 ppb

response 23406509

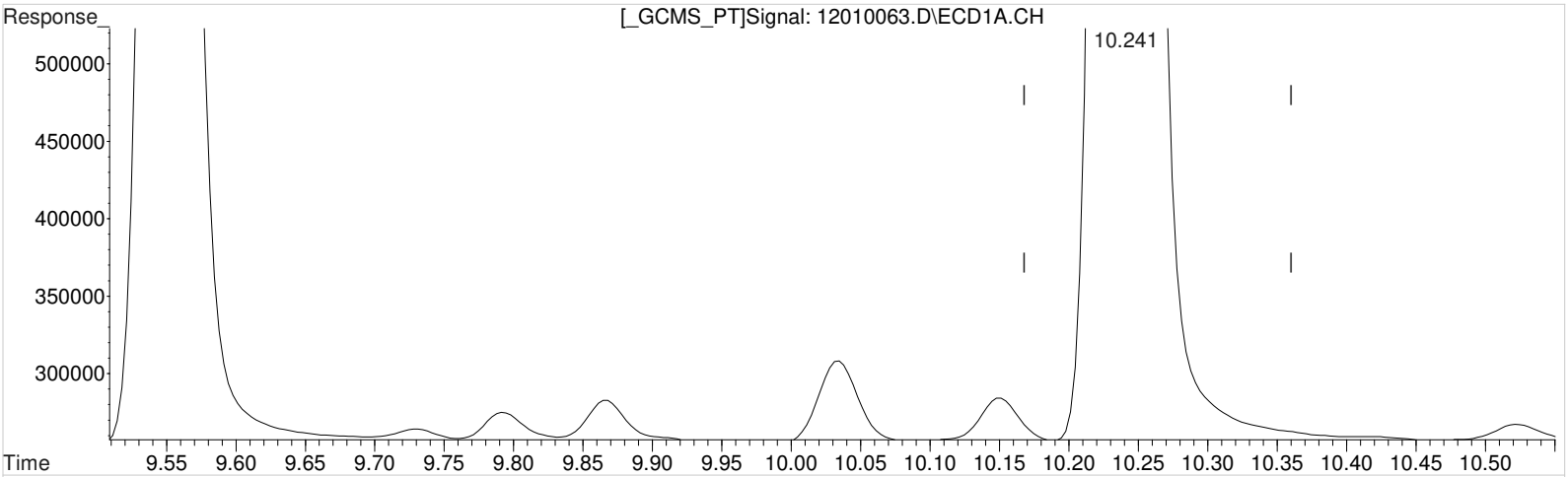
(+) = Expected Retention Time

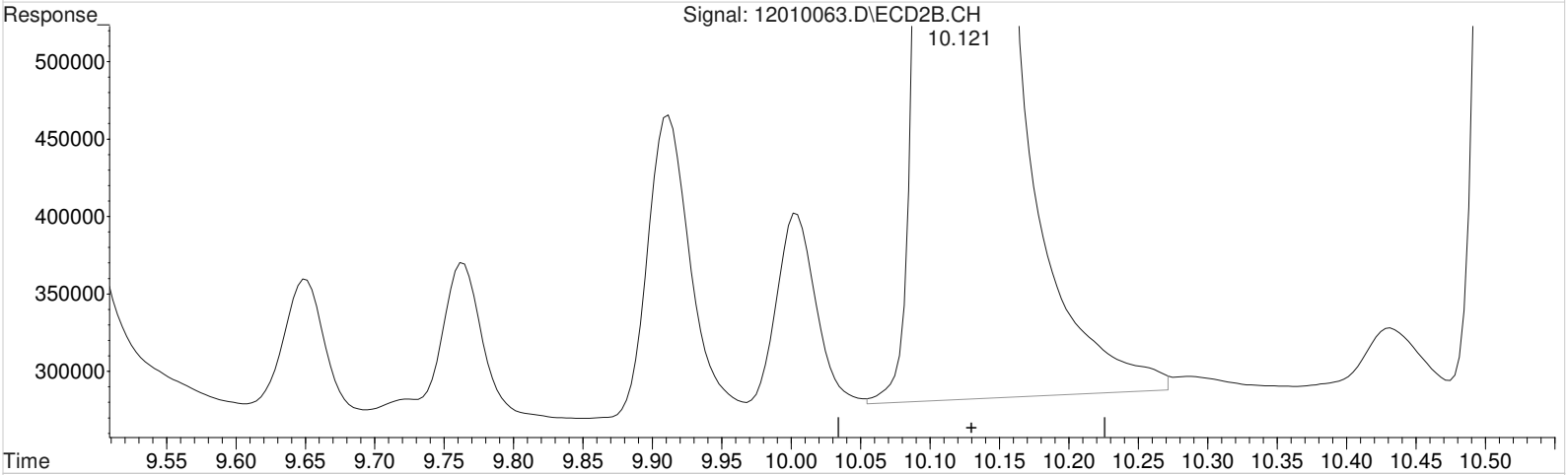
1st 12/02/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010063.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 5:00 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: Dec 02 18:21:20 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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.241min 81.327 ppb m

response 7618798

(8) 2,4,5-TP (Silvex) #2 (m)

10.121min 115.058 ppb m

response 23356475

Manual Integration:

After

Baseline/Shoulder

12/02/20

(+) = Expected Retention Time

1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010075.D\
Lab ID: KQ2019199-07
RunType: CCV
Matrix: Sediment

Date Acquired: 12/2/20 21:34:00
Batch ID: 705654
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: _____

1st UA 12/03/20
2nd JW 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010075.D\	**Instrument:**	K-GC-24
Acqu Date:	12/2/20 21:34:00	**Vial:**	11
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019199-07	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.81	1602226	4917376	88.051	116.256			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	10.24	10.12	7704495	23461532	82.242	115.575	82.2	116	Y
2,4-D	9.30	9.06	1607321	5295769	75.674	103.436	75.7	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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010075.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:34 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: Dec 03 09:31:12 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...	7.980	7.814	1602226	4917376	88.051	116.256	#
		Target Compounds							
1)	m	Dalapon	3.120	2.874	2271995	5640287	93.658	116.745	
3)	m	Dicamba	8.200	7.917	6210167	18077877	88.971	121.972	#
4)	m	MCPP	8.284	8.104	417935	2229538	9502.392	13990.439	#
5)	m	MCPA	8.547	8.350	546014	2864305	9325.200	13259.761	#
6)	m	Dichloroprop	8.950	8.750	1581712	5018830	84.820	120.312	#
7)	m	2,4-D	9.304	9.057	1607321	5295769	75.674	103.436	#
8)	m	2,4,5-TP ...	10.244	10.124	7704495	23461532	82.242	115.575	#
9)	m	2,4,5-T	10.687	10.527	5736895	16711670	69.530	87.328	#
10)	m	2,4-DB	11.267	11.160	678246	2423097	66.110	83.509	#
11)	m	Dinoseb	11.664	11.310	4839569	14287752	78.226	104.476	#

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

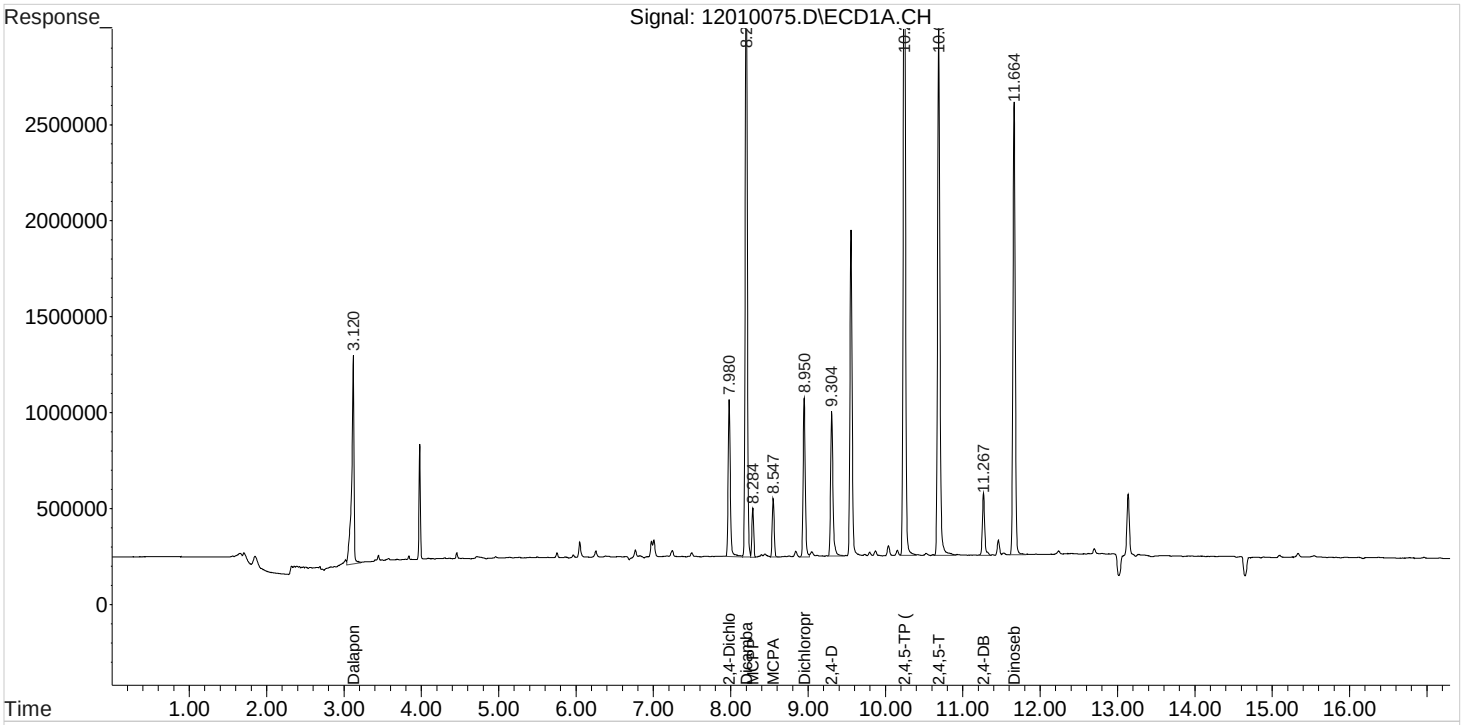
Quantitation Report (QT Reviewed)

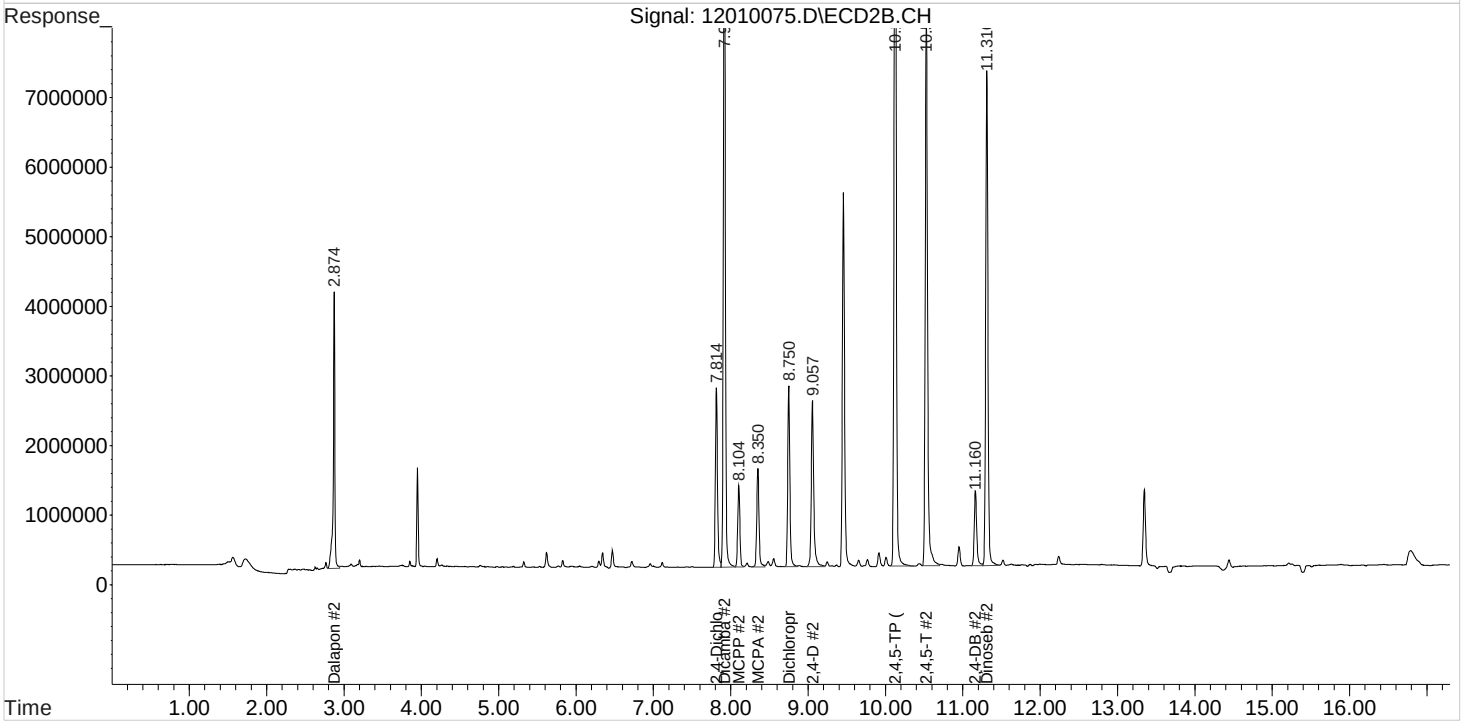
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010075.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 02 Dec 2020 9:34 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: Dec 03 09:31:12 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





1st UA 12/03/20
2nd JW 12/03/20

Validation Report

Data File: J:\gc24\data\120120\12010083.D\
Lab ID: KQ2019199-09
RunType: CCV
Matrix: Sediment

Date Acquired: 12/3/20 00:38:00
Batch ID: 705654
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: _____

1st UA 12/03/20
2nd 12/03/20

Quantitation Report

Data File:	J:\gc24\data\120120\12010083.D\	**Instrument:**	K-GC-24
Acqu Date:	12/3/20 00:38:00	**Vial:**	13
Run Type:	CCV	**Dilution:**	1
Lab ID:	KQ2019199-09	**Raw Units:**	ppb

Bottle ID:		**Tier:**	IV	**Matrix:**	Sediment
Prod Code:	HERB	**Collect Date:**	11/10/20	**Receive Date:**	11/12/20

Analysis Lot:	705654	**Prep Lot:**		**Report Group:**	KQ2019199
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	7.81	1598105	4868528	87.824	115.101			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	10.24	10.12	7666893	23116522	81.840	113.876	81.8	114	Y
2,4-D	9.30	9.05	1603460	5256225	75.492	102.663	75.5	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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Quantitation Report (QT Reviewed)

1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010083.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Dec 2020 12:38 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: Dec 03 10:06:42 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

	Compound	RT#1	RT#2	Resp#1	Resp#2	ppb	ppb	
	System Monitoring Compounds							
2) s	2,4-Dichl...	7.976	7.813	1598105	4868528	87.824	115.101	#
	Target Compounds							
1) m	Dalapon	3.119	2.873	2254853	5626305	92.951	116.456	#
3) m	Dicamba	8.199	7.913	6177811	17962272	88.507	121.192	#
4) m	MCPP	8.282	8.099	417260	2234275	9487.867	14023.178	#
5) m	MCPA	8.546	8.349	541456	2893281	9247.355	13412.907	#
6) m	Dichloroprop	8.946	8.746	1578935	5020393	84.671	120.350	#
7) m	2,4-D	9.302	9.053	1603460	5256225	75.492	102.663	#
8) m	2,4,5-TP ...	10.239	10.123	7666893	23116522	81.840	113.876	#
9) m	2,4,5-T	10.686	10.526	5637749	16466101	68.328	86.045	#
10) m	2,4-DB	11.266	11.159	677109	2391066	65.999	82.406	
11) m	Dinoseb	11.659	11.306	4805669	14088958	77.678	103.022	#

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

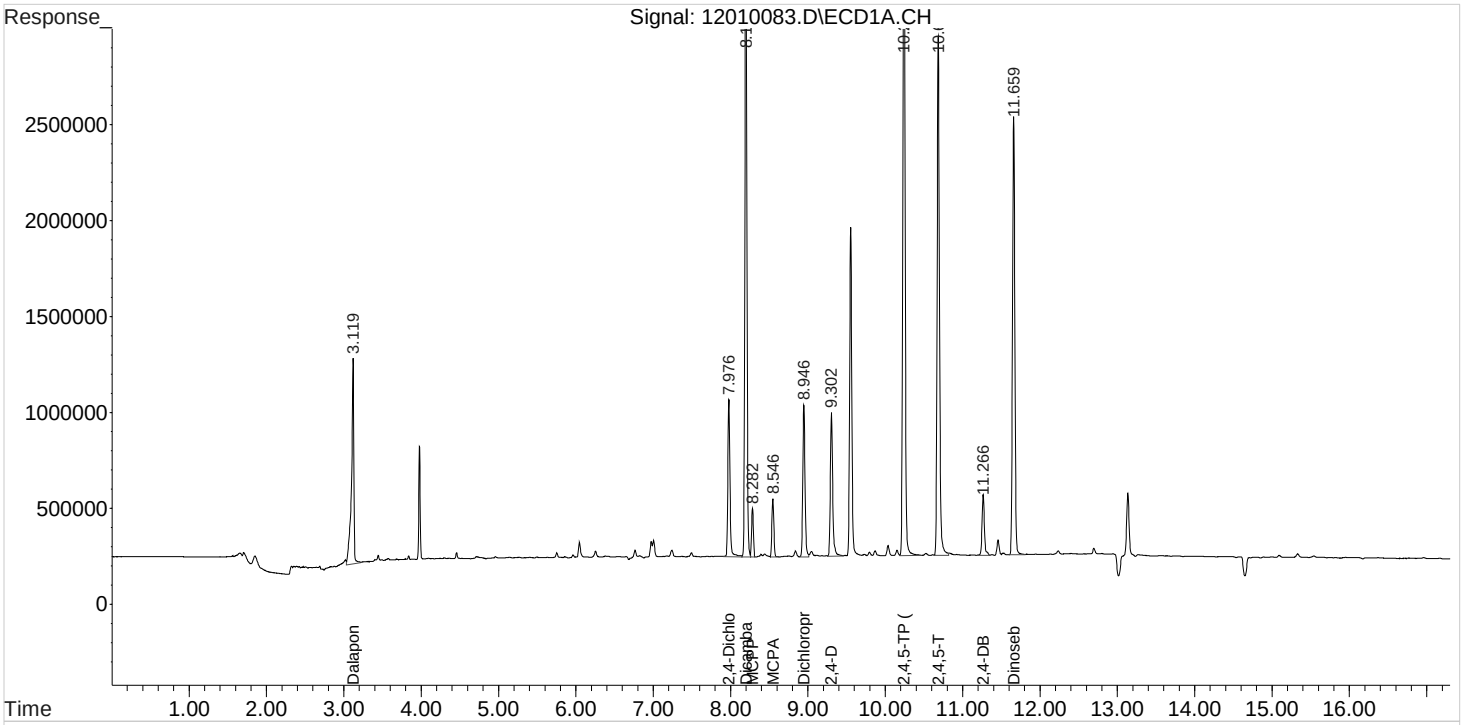
Quantitation Report (QT Reviewed)

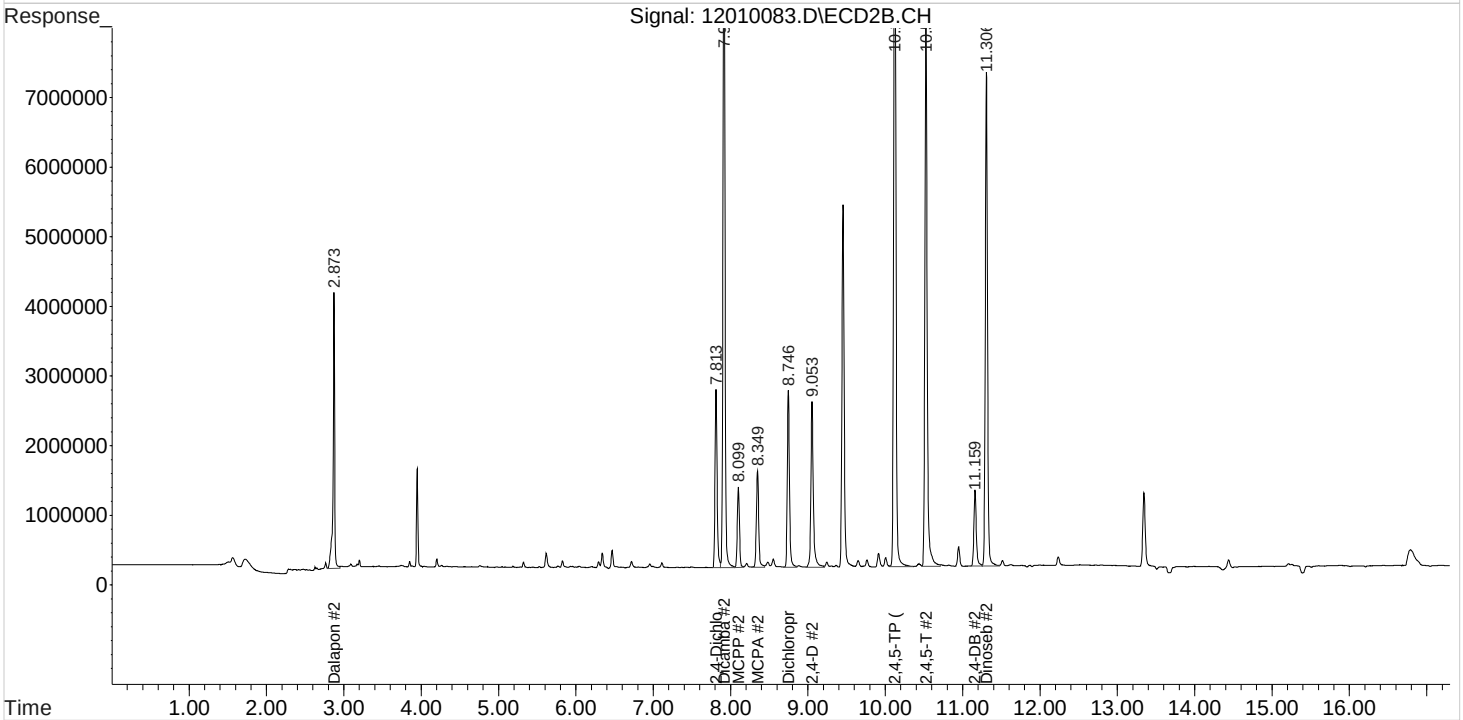
1st UA 12/03/20
2nd 12/03/20

Data File : J:\gc24\data\120120\12010083.D Vial: 1
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 03 Dec 2020 12:38 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: Dec 03 10:06:42 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





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	ICAL: KC2000566	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

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 < ½ 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 doubl 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 ~~Stealth~~ LIMS 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 ~~Stealth~~ LIMS.
☑	☑	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: _____ Date: 10-21-20

Secondary: _____ Date: 10/22/20

Response Factor Report HP G1530A

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

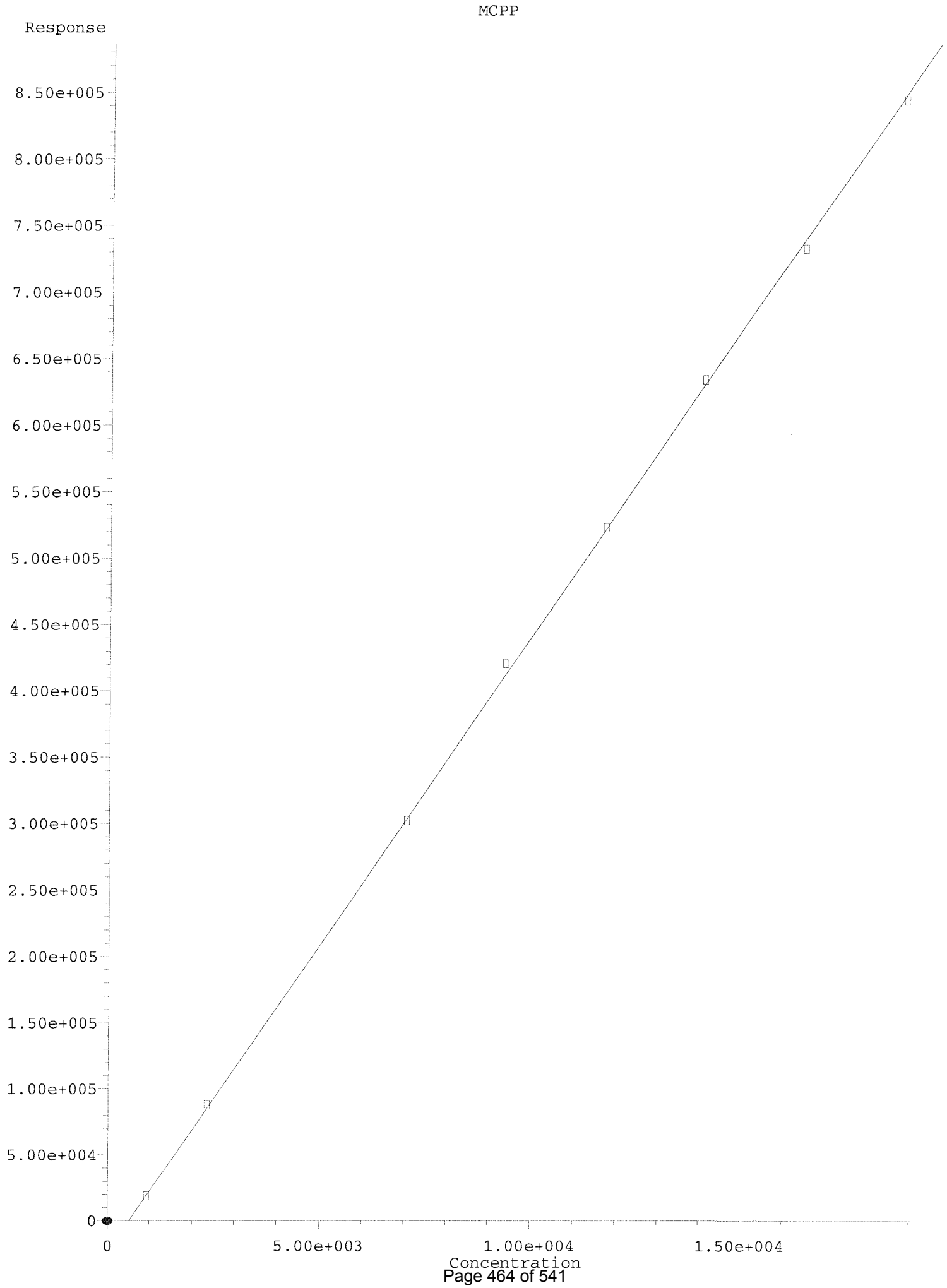
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	2.671	2.733	2.254	2.374	2.344	2.385	2.426 E4	7.29
2)	s	2,4-Dichlorop...	2.115	2.015	1.798	1.794	1.738	1.732	1.820 E4	8.79
3)	m	Dicamba	7.596	7.540	6.777	6.892	6.778	6.830	6.980 E4	5.27
4)	m	MCPP	2.001	3.740	4.291	4.480	4.454	4.501	4.053 E1	21.41
5)	m	MCPA	4.567	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

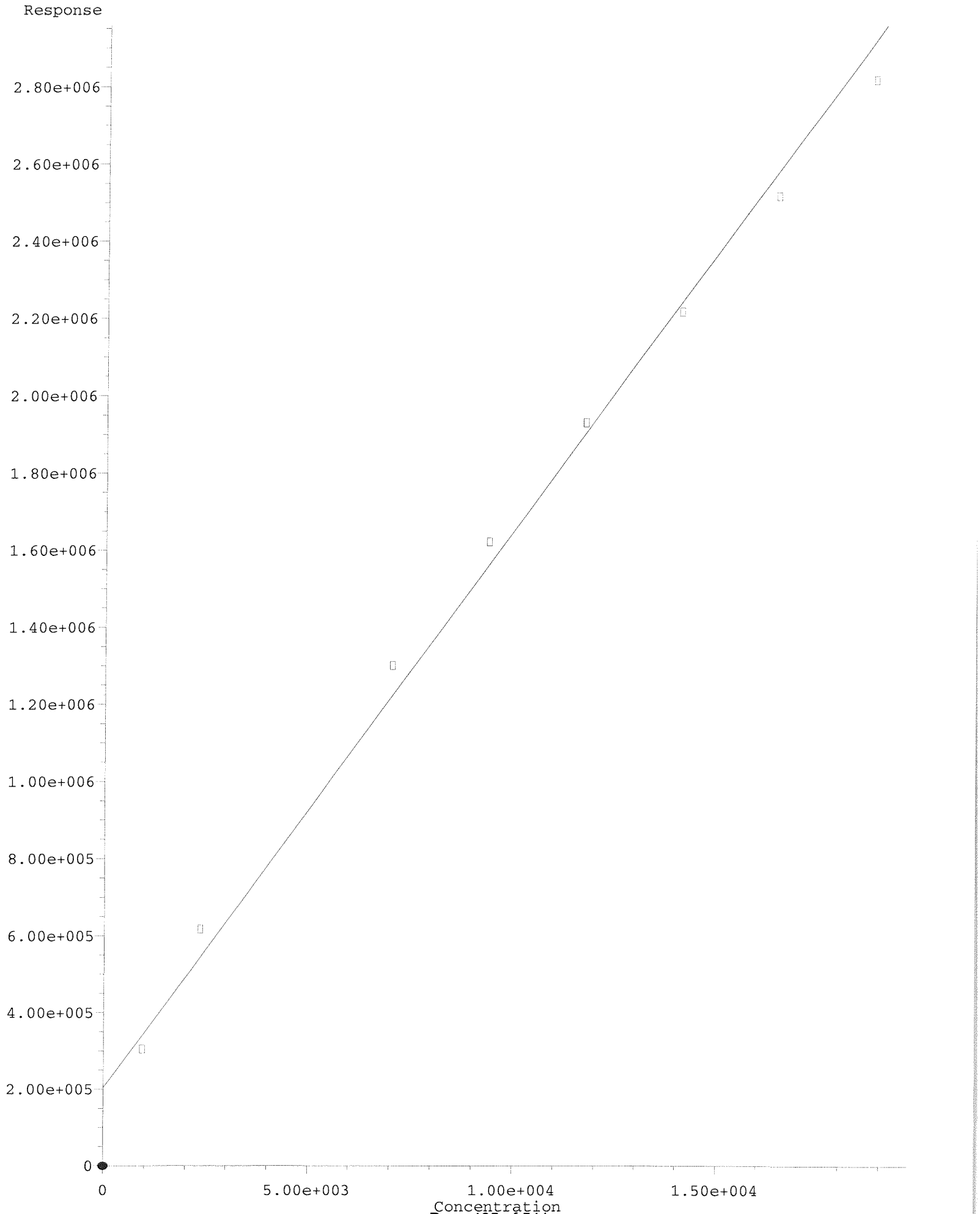
Signal #2 Calibration Files
1 =10210004.D 2 =10210005.D =
4 =10210006.D 5 =10210007.D 6 =10210008.D

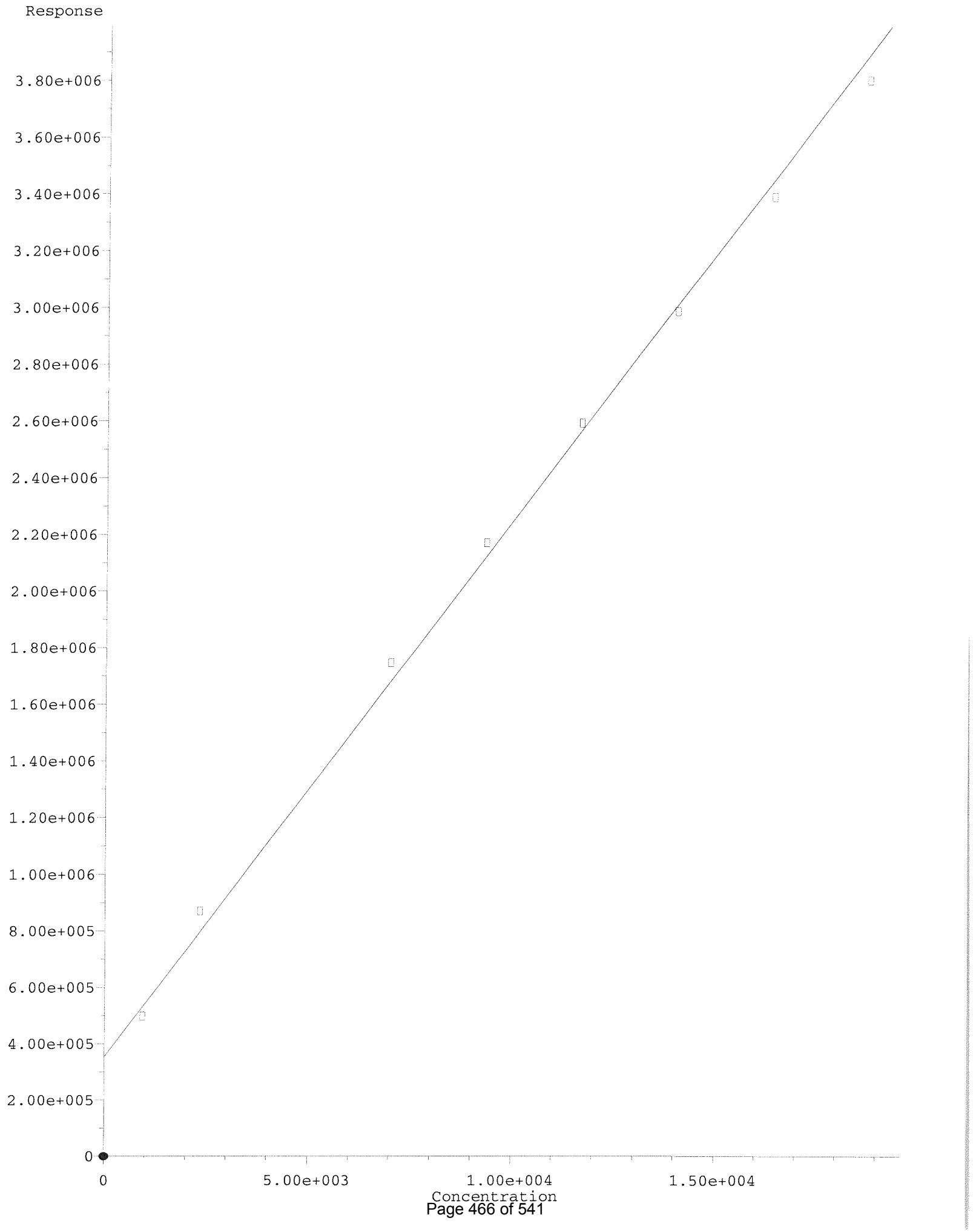
		Compound	1	2	4	5	6	Avg		%RSD
1)	m	Dalapon	5.105	5.207	4.698	4.631	4.838	4.664	4.831 E4	4.39
2)	s	2,4-Dichlorop...	5.587	4.943	4.041	3.953	3.892	3.822	4.230 E4	15.77
3)	m	Dicamba	1.724	1.593	1.424	1.430	1.425	1.416	1.482 E5	7.71
4)	m	MCPP	3.248	2.629	1.847	1.727	1.645	1.574	1.963 E2	32.32
5)	m	MCPA	5.322	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


MCPP
Response
8.50e+005
8.00e+005
7.50e+005
7.00e+005
6.50e+005
6.00e+005
5.50e+005
5.00e+005
4.50e+005
4.00e+005
3.50e+005
3.00e+005
2.50e+005
2.00e+005
1.50e+005
1.00e+005
5.00e+004
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPP #2
Response
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration


MCPA #2
Response
3.80e+006
3.60e+006
3.40e+006
3.20e+006
3.00e+006
2.80e+006
2.60e+006
2.40e+006
2.20e+006
2.00e+006
1.80e+006
1.60e+006
1.40e+006
1.20e+006
1.00e+006
8.00e+005
6.00e+005
4.00e+005
2.00e+005
0
0
5.00e+003
1.00e+004
1.50e+004
Concentration

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	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	934.770	45.67	02	2336.600	61.1	03	7010.000	60.22	04	9346.000	61.33
05	11683.010	60.3	06	14019.610	60.46	07	16356.210	59.76	08	18692.820	59.57

MCPP **Linear** **1/X** **R2 = 0.99984741644702** **Y=46.47 X+-2.364E+04**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	20.01	02	2346.620	37.4	03	7040.000	42.91	04	9386.000	44.8
05	11733.100	44.54	06	14079.720	45.01	07	16426.340	44.58	08	18772.960	44.98

2,4-Dichlorophenylacetic Acid **Average RF** **RSD = 8.791** **Average RF = 1.82E4**

#	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

Analyte

2,4,5-T

#	Amount	Calculated Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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 Conc	%D	#	Amount	Calculated Conc	%D	#	Amount	Calculated 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	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.480	2.241E5	02	23.700	2.074E5	03	71.100	1.833E5	04	94.800	1.848E5
05	118.490	1.821E5	06	142.190	1.835E5	07	165.890	1.828E5	08	189.590	1.83E5

2,4,5-TP

Average RF **RSD = 7.62** **Average RF = 2.03E5**

#	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

Average RF **RSD = 17.22** **Average RF = 5.12E4**

#	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

2,4-DB

Average RF **RSD = 11.07** **Average RF = 2.902E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.470	3.572E4	02	23.670	3.225E4	03	71.000	2.779E4	04	94.700	2.756E4
05	118.330	2.726E4	06	142.000	2.732E4	07	165.670	2.706E4	08	189.340	2.717E4

Dalapon

Average RF **RSD = 4.39** **Average RF = 4.831E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.110	5.105E4	02	22.770	5.207E4	03	68.300	4.698E4	04	91.100	4.631E4
05	113.830	4.838E4	06	136.600	4.664E4	07	159.360	4.774E4	08	182.130	4.733E4

Dicamba

Average RF **RSD = 7.713** **Average RF = 1.482E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.400	1.724E5	02	23.510	1.593E5	03	70.500	1.424E5	04	94.000	1.43E5
05	117.540	1.425E5	06	141.050	1.416E5	07	164.560	1.42E5	08	188.060	1.426E5

Dichlorprop

Average RF **RSD = 14.71** **Average RF = 4.172E4**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.440	5.44E4	02	23.590	4.793E4	03	70.800	3.993E4	04	94.400	3.939E4
05	117.960	3.868E4	06	141.550	3.809E4	07	165.140	3.779E4	08	188.730	3.751E4

Dinoseb

Average RF **RSD = 10.83** **Average RF = 1.368E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	9.450	1.678E5	02	23.620	1.515E5	03	70.900	1.309E5	04	94.500	1.301E5
05	118.100	1.294E5	06	141.720	1.286E5	07	165.340	1.279E5	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	#	Amount	RF
01	934.770	532.2	02	2336.600	372.4	03	7010.000	249.2	04	9346.000	232.3
05	11683.010	221.8	06	14019.610	213	07	16356.210	207.2	08	18692.820	203.3

MCPP **Linear** **1/X** **R2 = 0.9944121406118910** **Y=144.7 X+2.053E5**

#	Amount	RF	#	Amount	RF	#	Amount	RF	#	Amount	RF
01	938.770	324.8	02	2346.620	262.9	03	7040.000	184.7	04	9386.000	172.7
05	11733.100	164.5	06	14079.720	157.4	07	16426.340	153.2	08	18772.960	150.1

2,4-Dichlorophenylacetic Acid **Average RF** **RSD = 15.77** **Average RF = 4.23E4**

#	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

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				

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

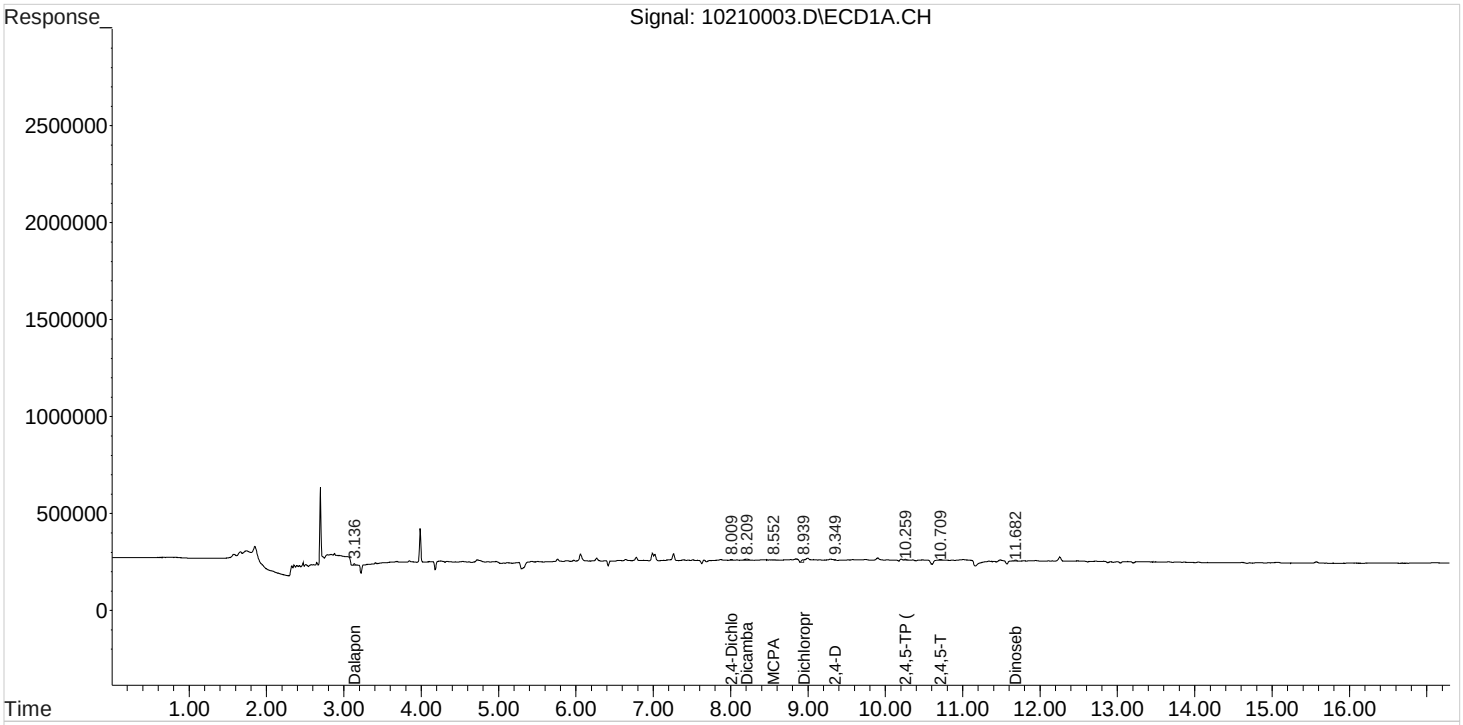
Quantitation Report (QT Reviewed)

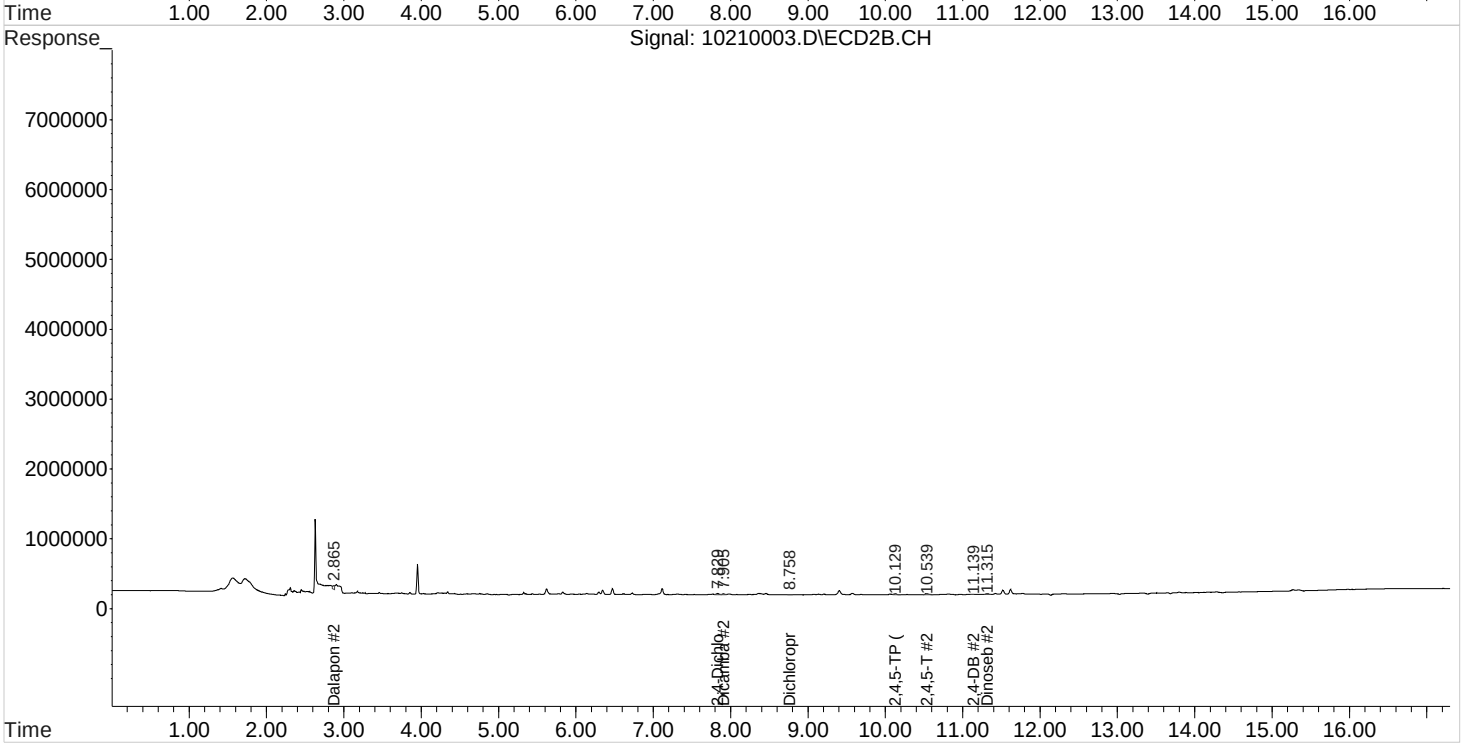
1st UA 10/21/20
2nd 10/22/20

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





Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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 17:30:40 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	

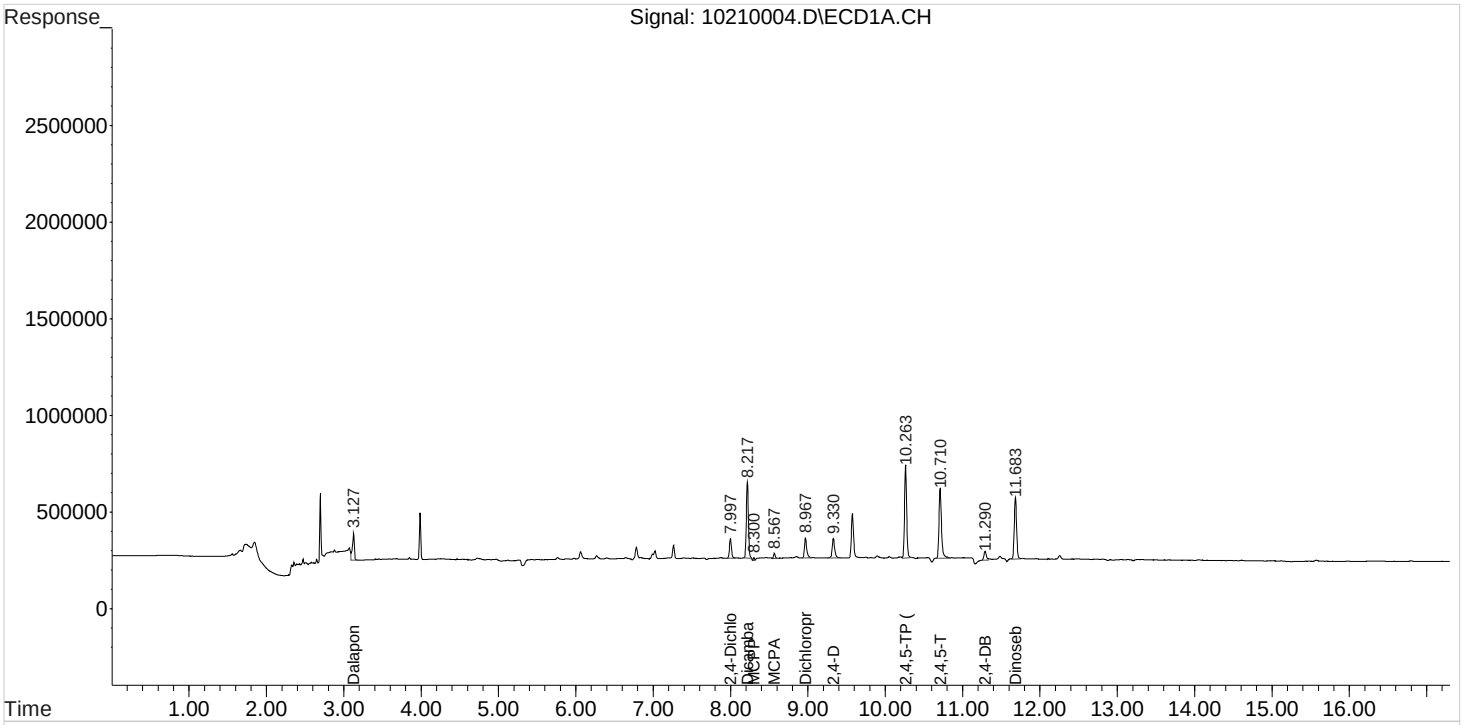
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

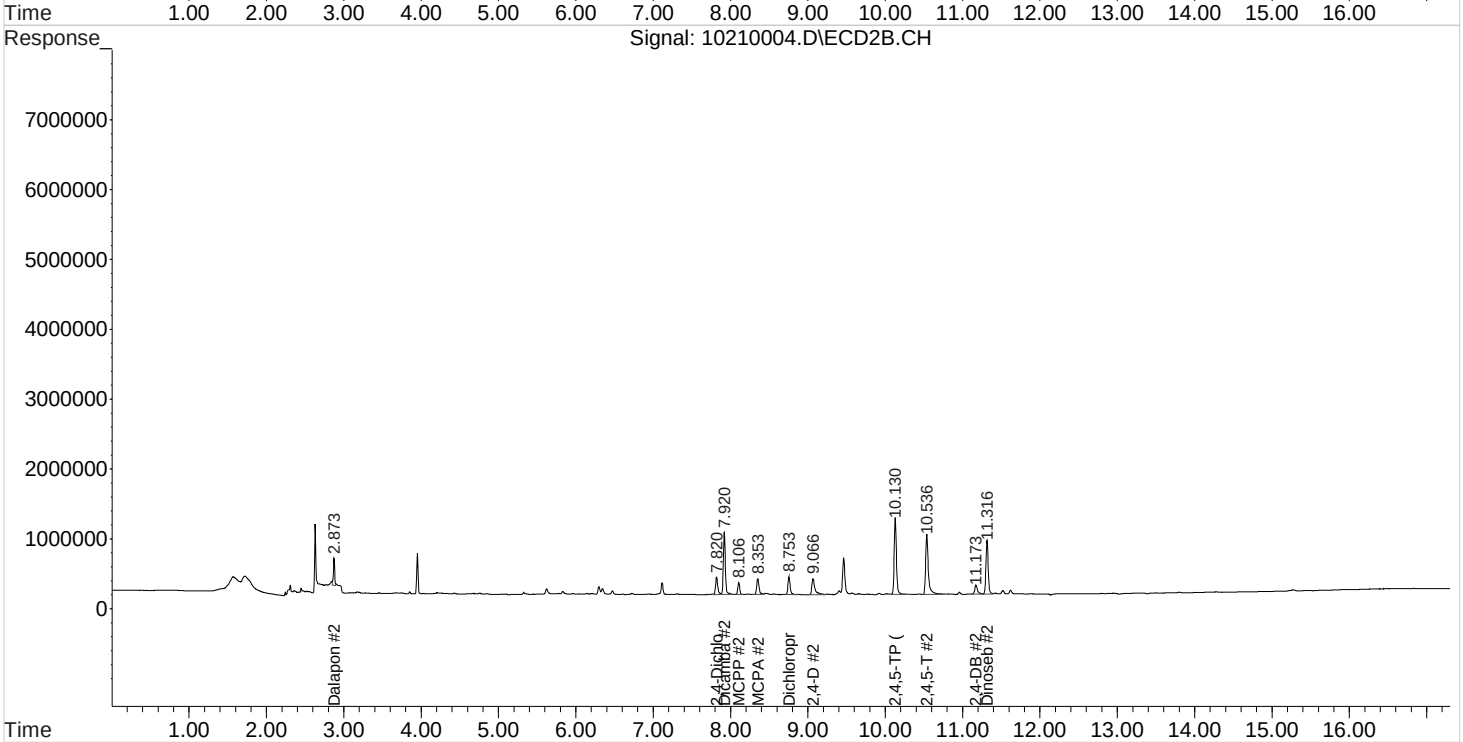
1st UA 10/21/20
2nd 10/22/20

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 17:30:40 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





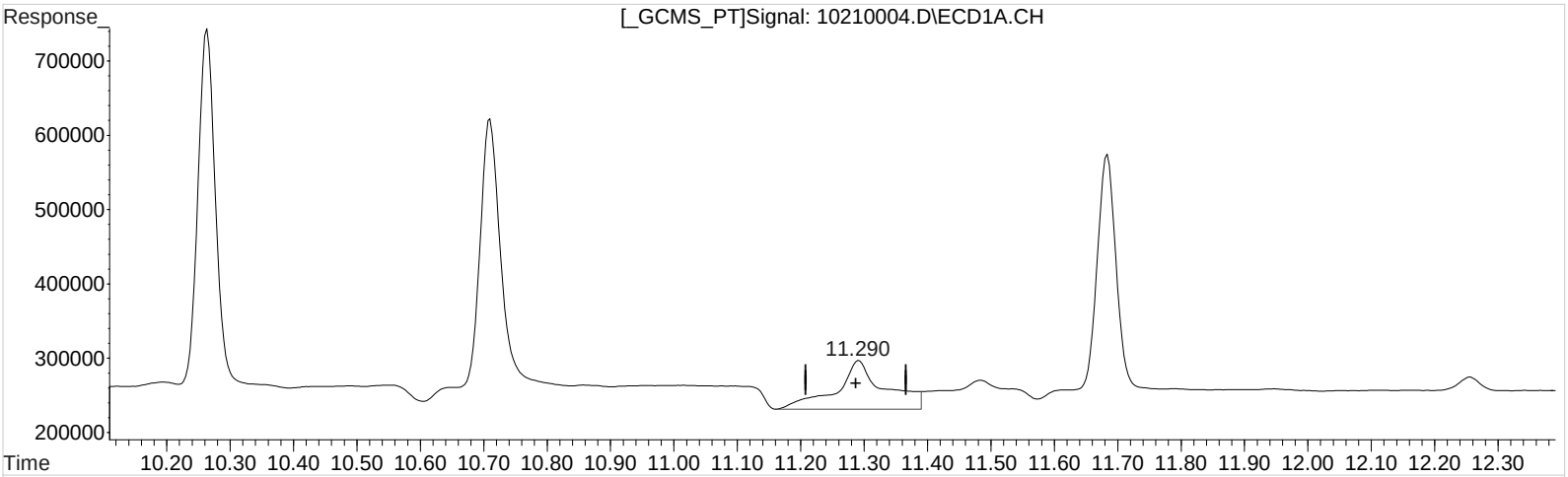
Quantitation Report (Qedit)

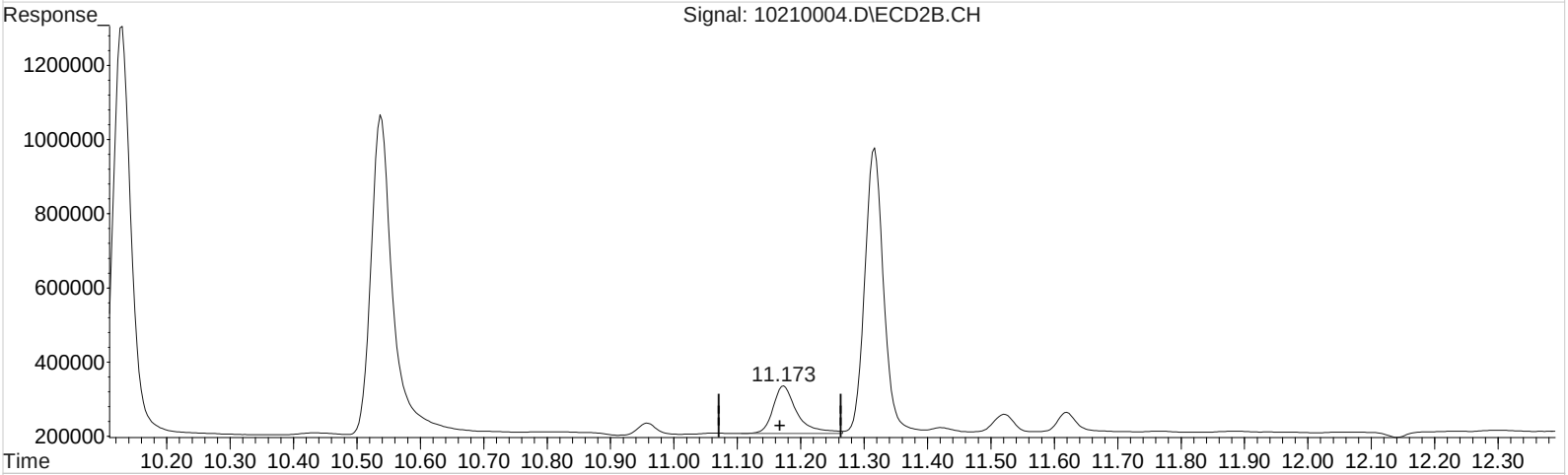
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(10) 2,4-DB (m)

11.290min 34.659 ppb

response 351402

(10) 2,4-DB #2 (m)

11.173min 12.055 ppb

response 338252

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

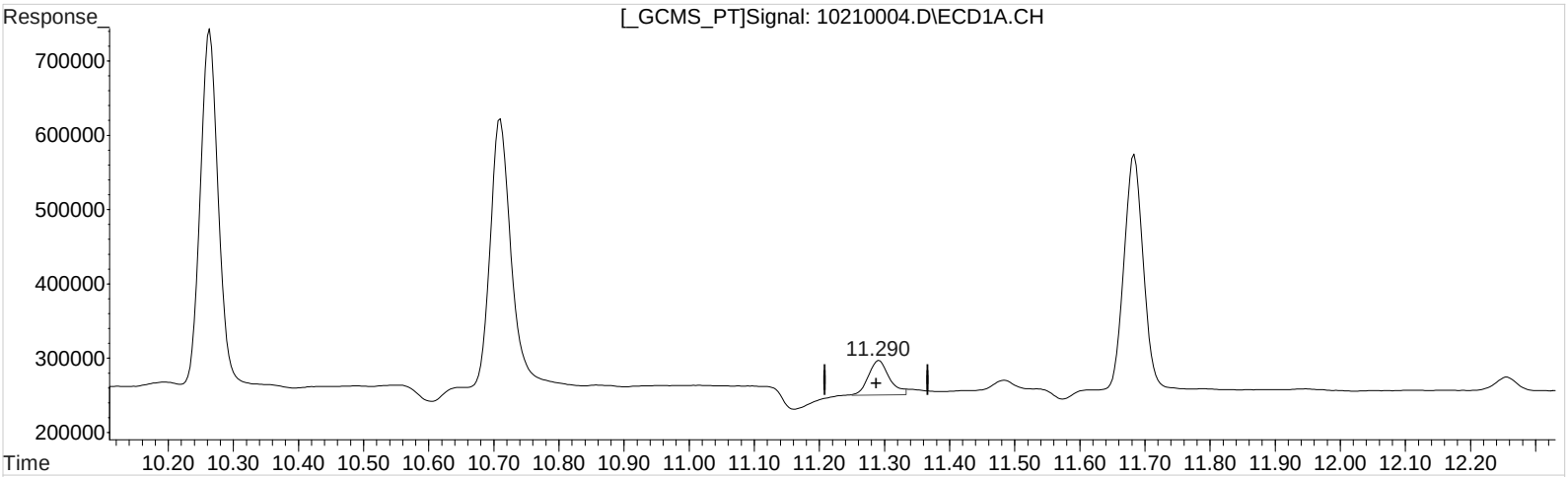
Quantitation Report (Qedit)

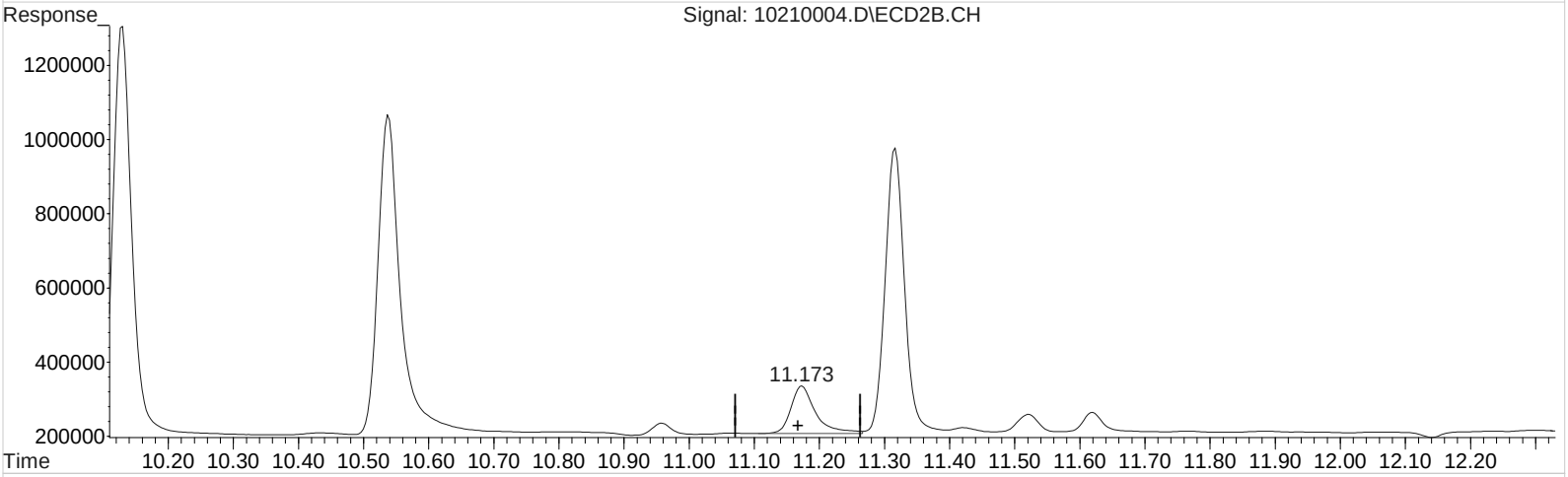
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(10) 2,4-DB (m)

11.290min 10.371 ppb m

response 105152

(10) 2,4-DB #2 (m)

11.173min 12.055 ppb

response 338252

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

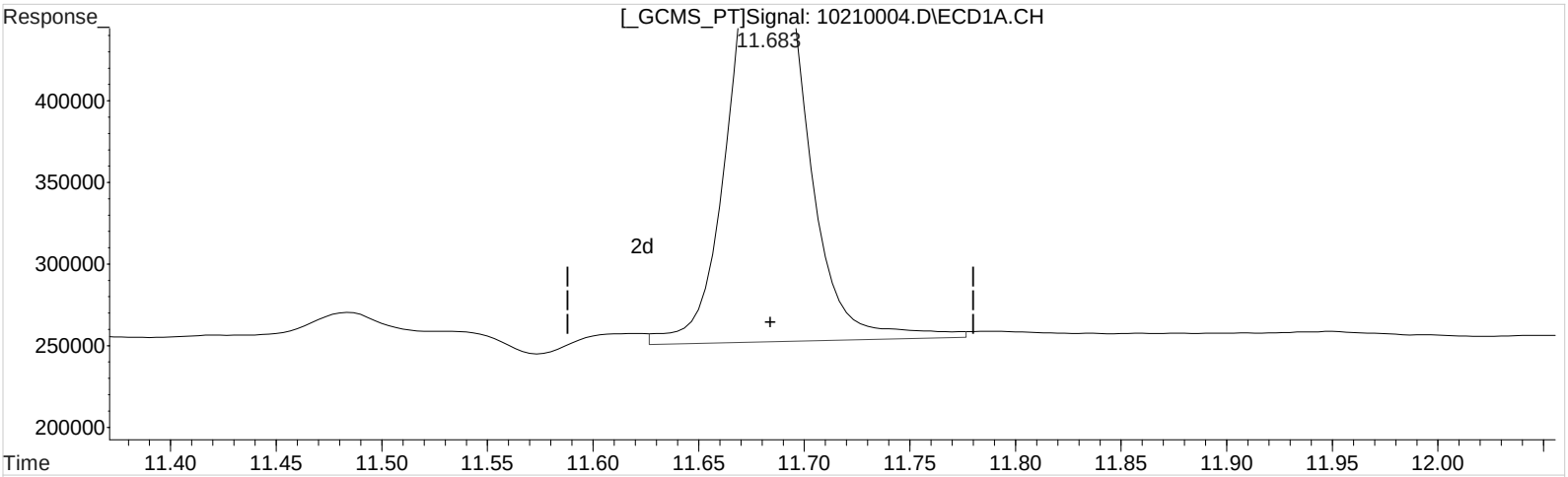
Quantitation Report (Qedit)

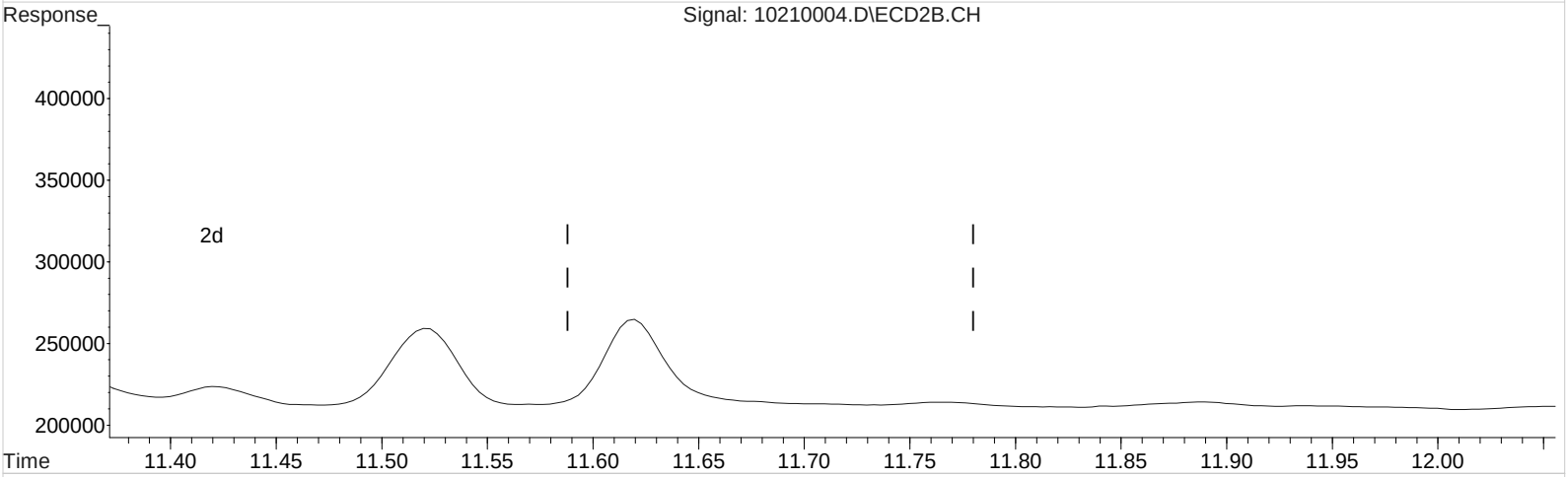
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

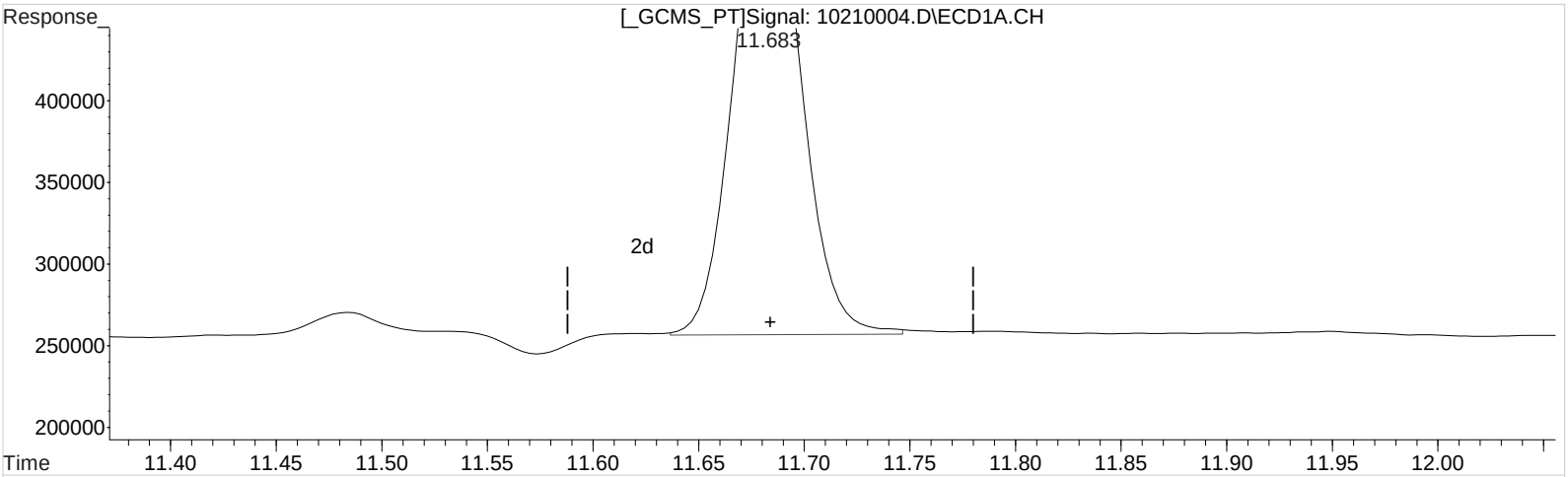
(+) = Expected Retention Time

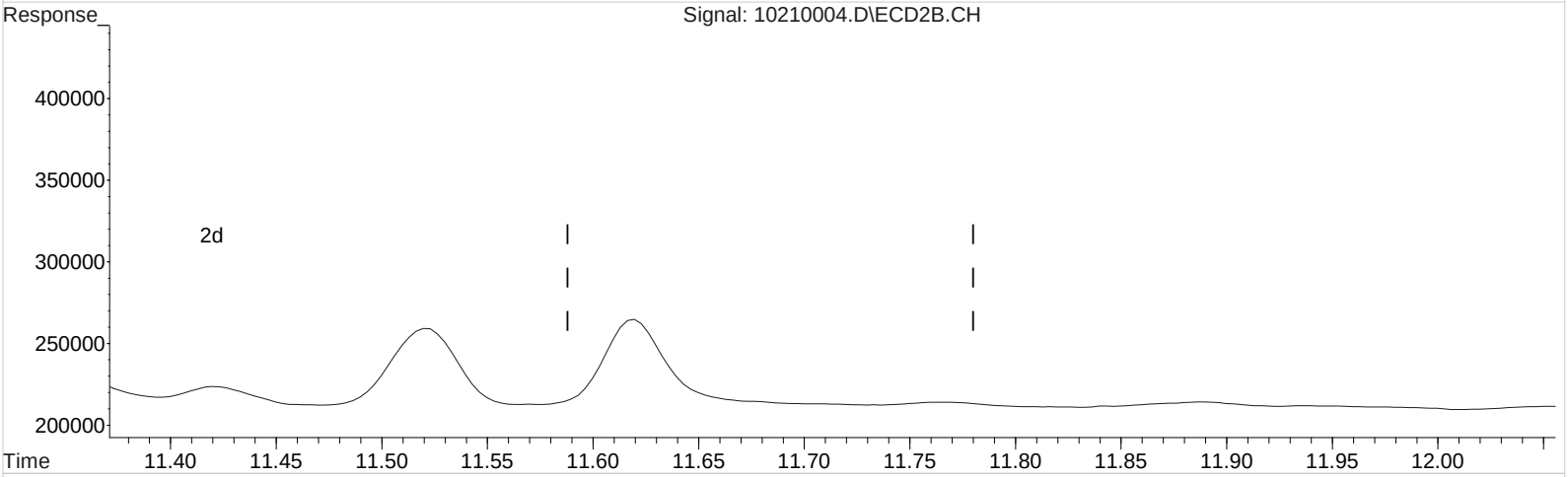
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

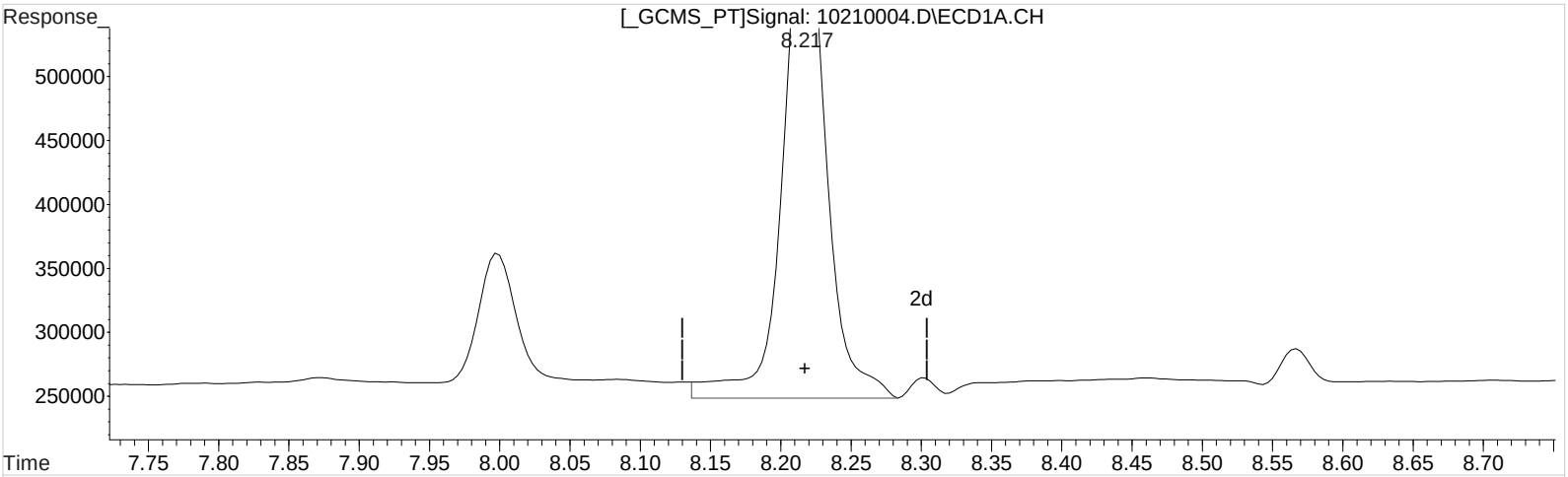
(+) = Expected Retention Time

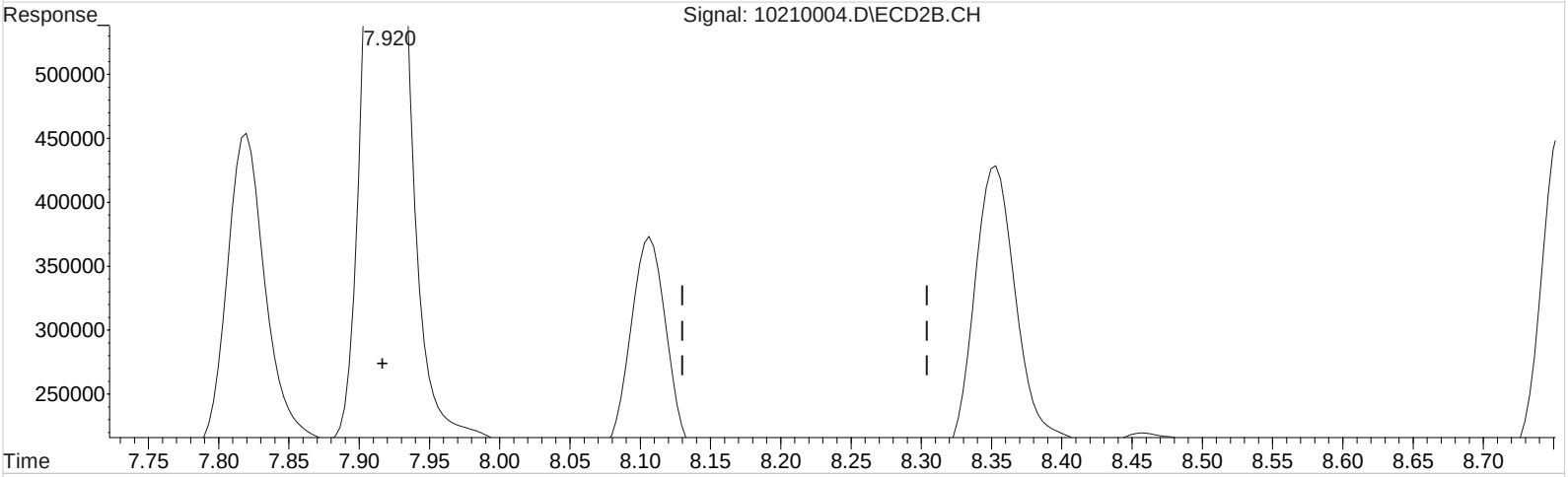
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

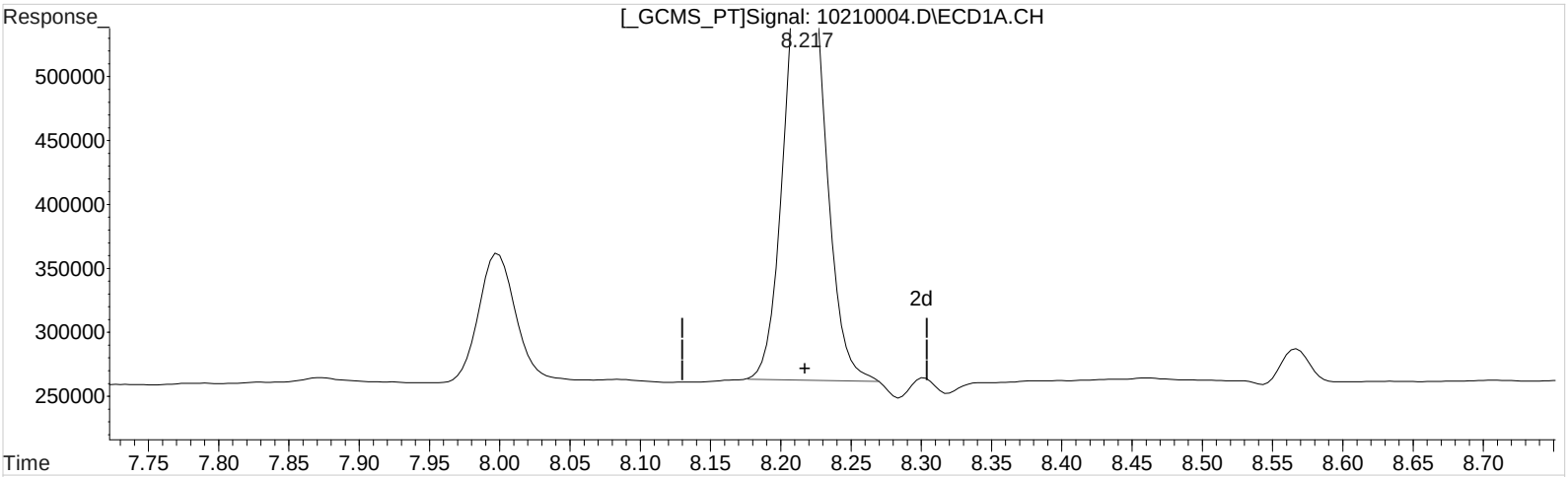
Quantitation Report (Qedit)

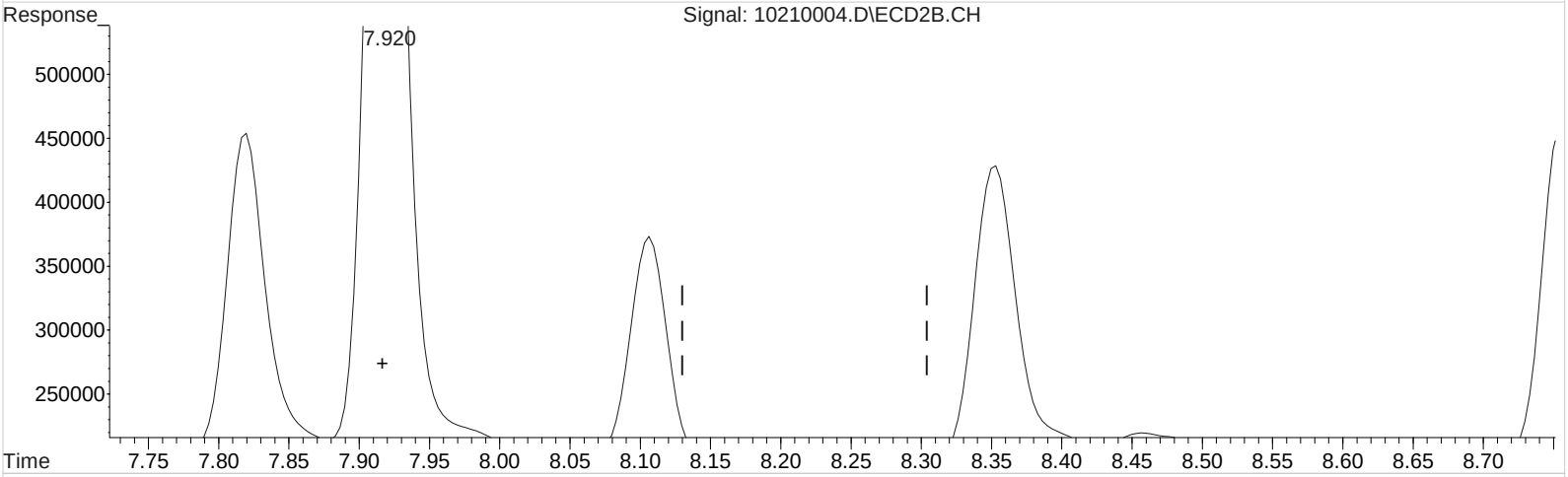
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(3) Dicamba (m)

8.217min 10.361 ppb m

response 714045

Manual Integration:

After

Baseline/Shoulder

10/21/20

(3) Dicamba #2 (m)

7.920min 11.193 ppb

response 1620262

(+) = Expected Retention Time

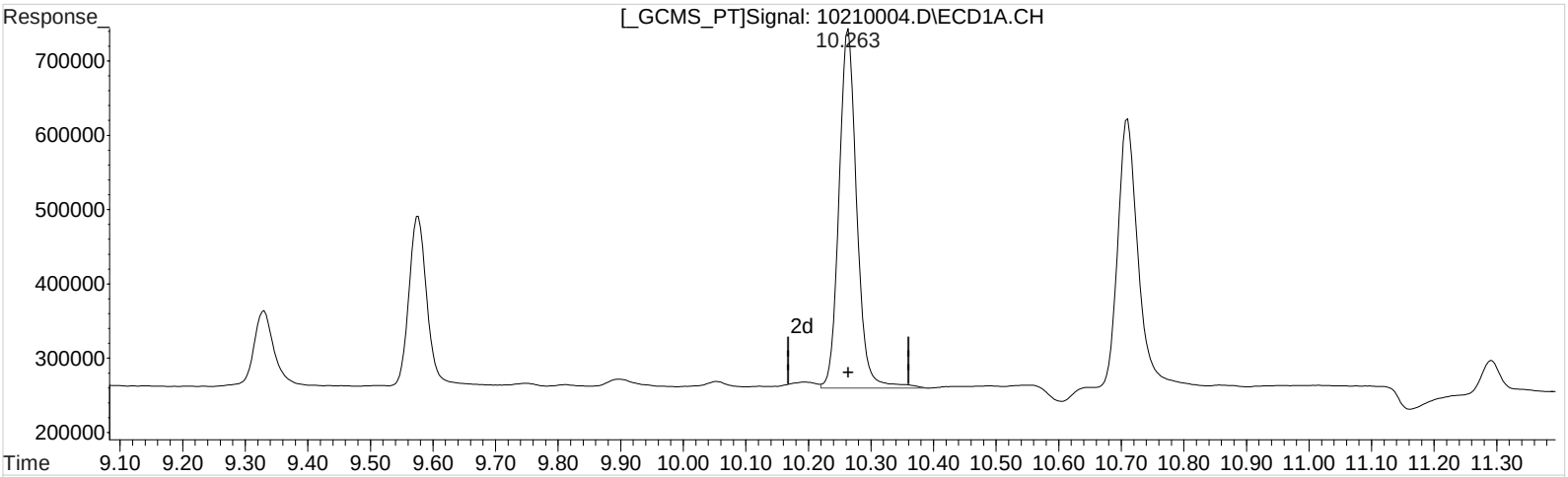
Quantitation Report (Qedit)

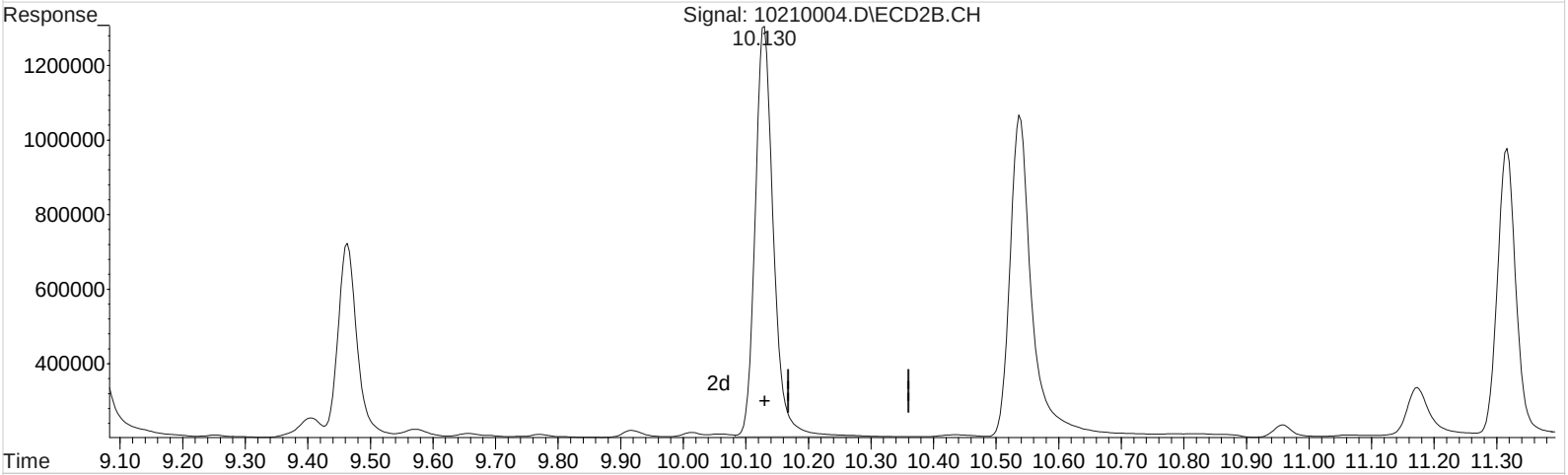
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.263min 10.244 ppb

response 954083

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 11.308 ppb

response 2242551

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

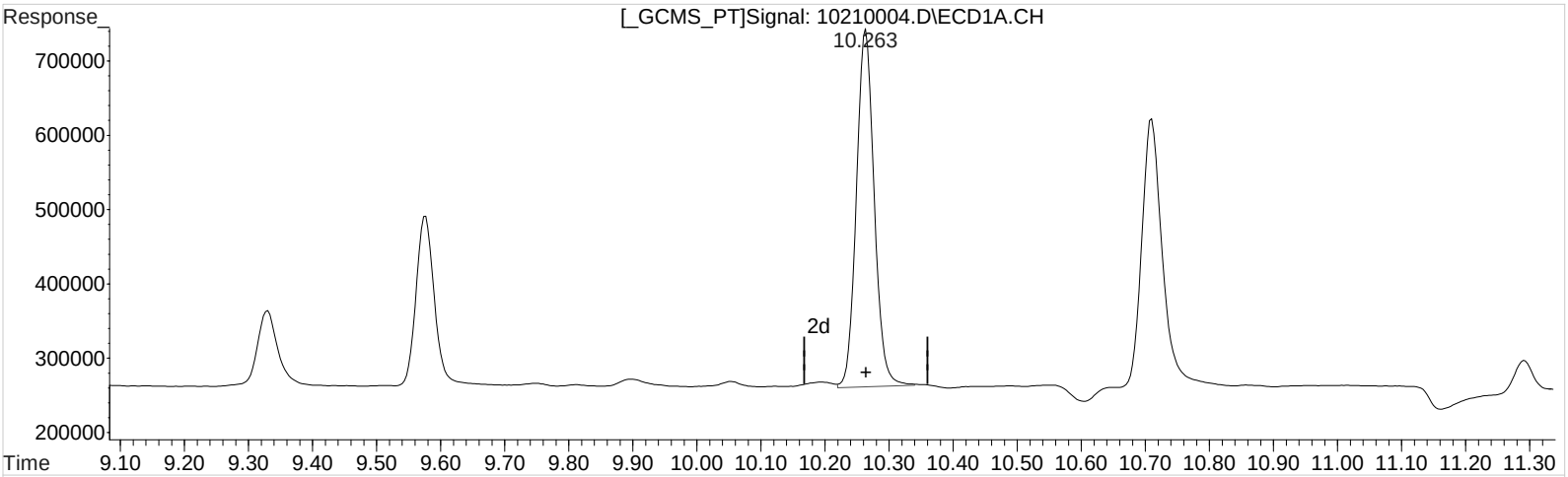
Quantitation Report (Qedit)

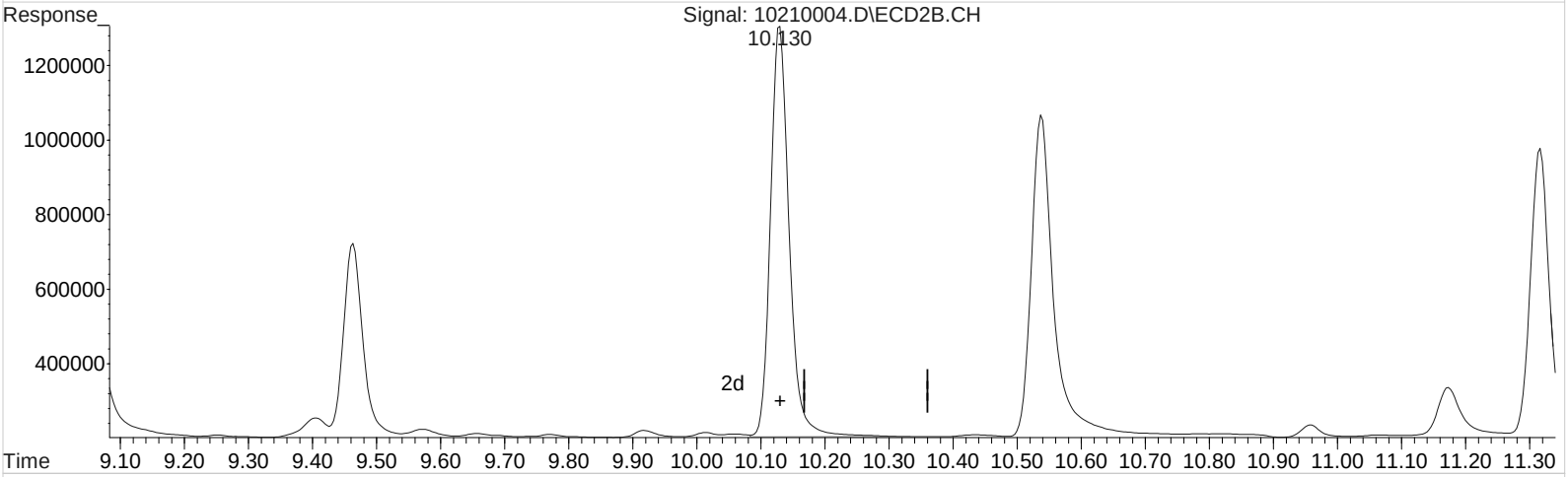
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(8) 2,4,5-TP (Silvex) (m)

10.263min 9.958 ppb m

response 927413

Manual Integration:

After

Baseline/Shoulder

10/21/20

(8) 2,4,5-TP (Silvex) #2 (m)

10.130min 11.308 ppb

response 2242551

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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	MCPP	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.

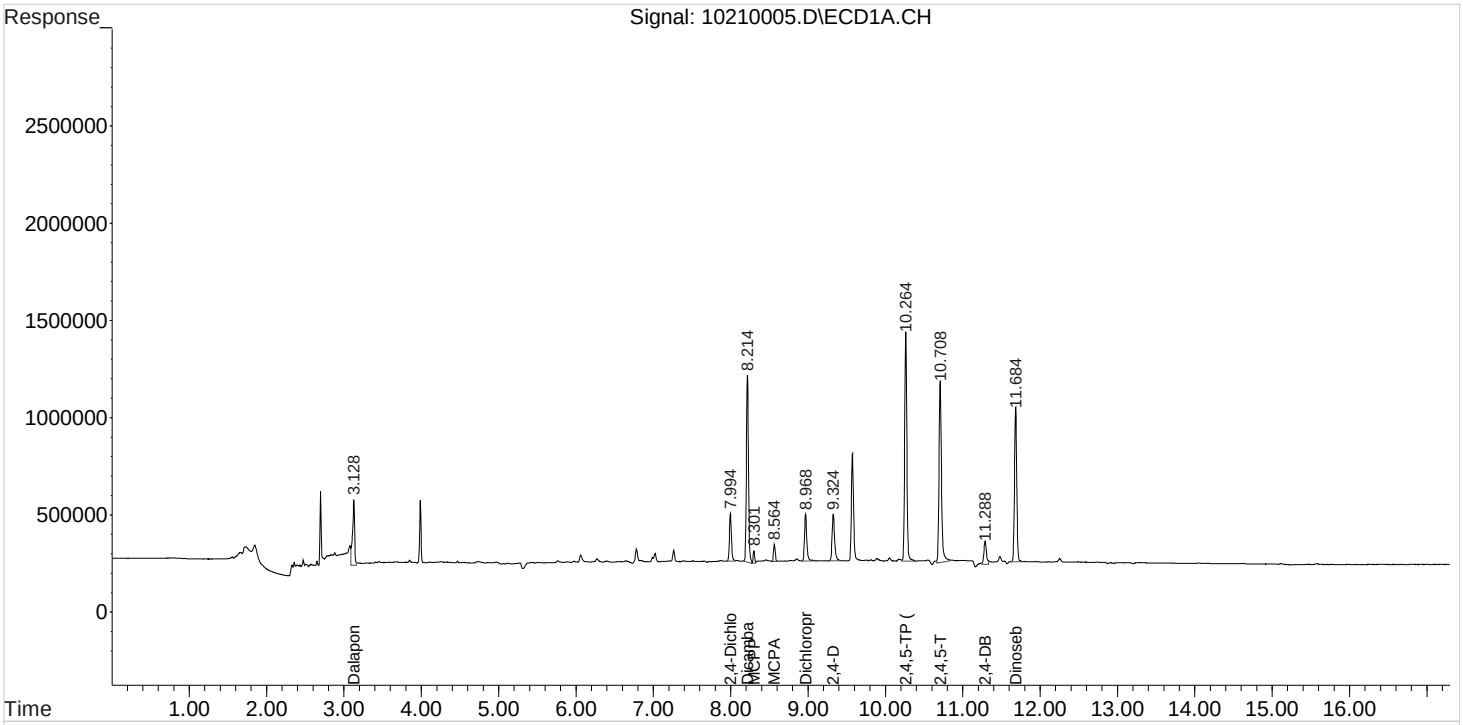
Quantitation Report (QT Reviewed)

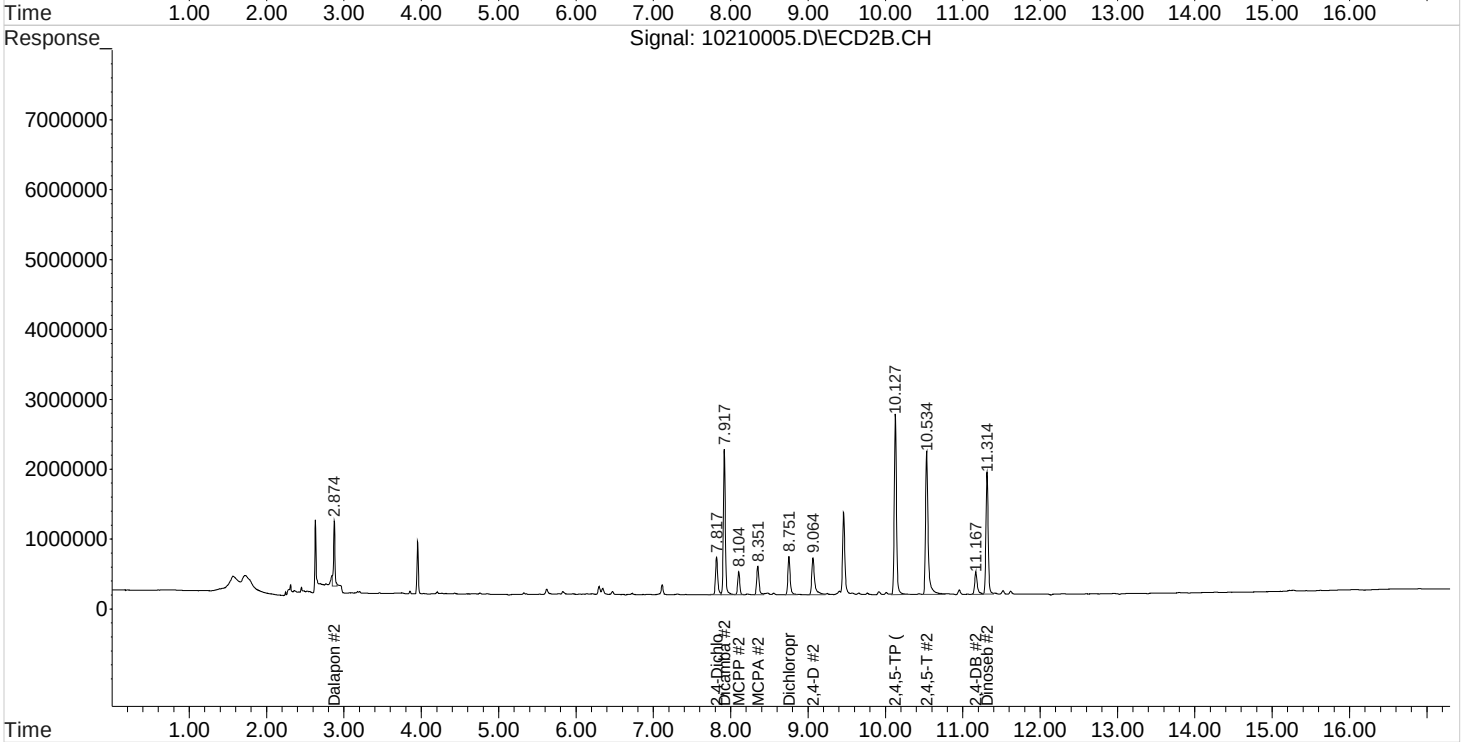
1st UA 10/21/20
2nd 10/22/20

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





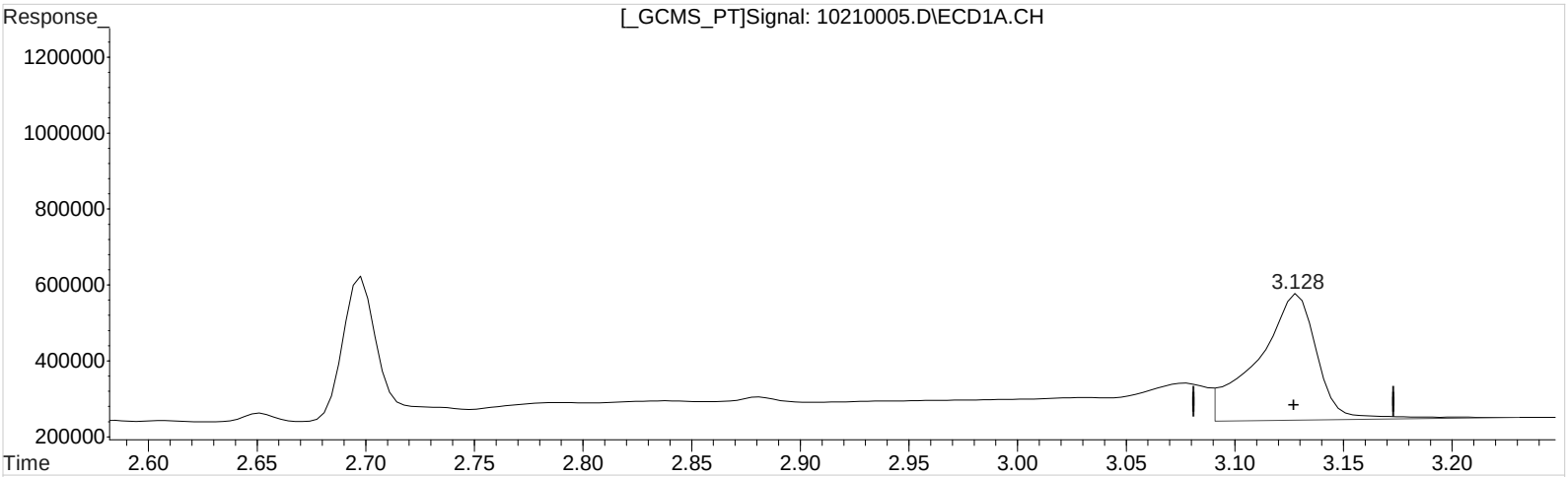
Quantitation Report (Qedit)

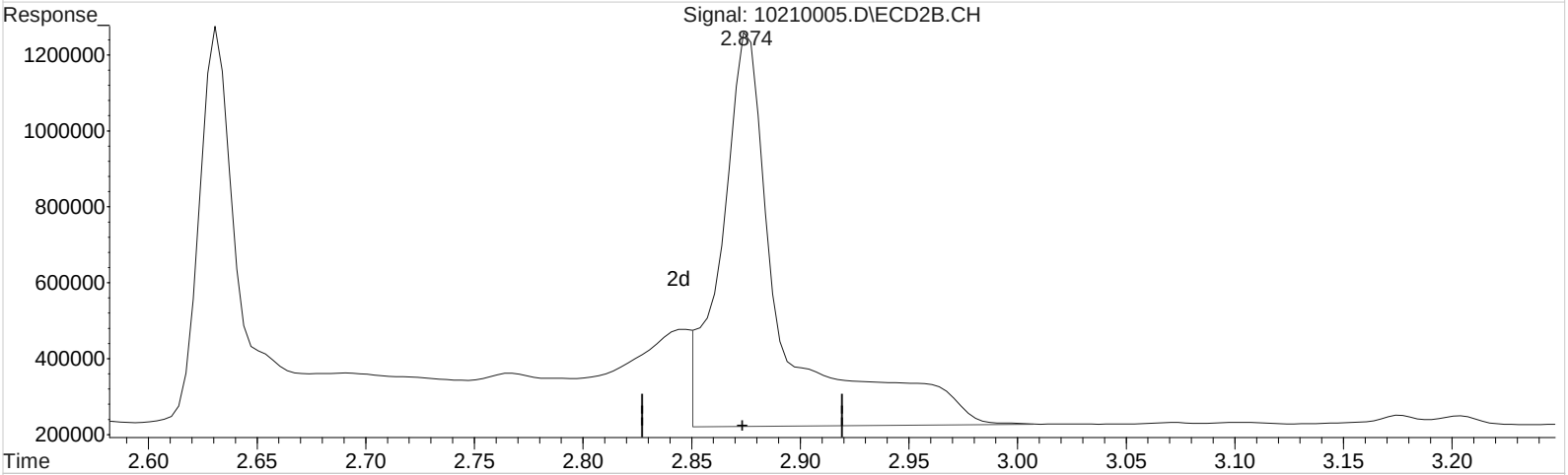
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.128min 26.760 ppb

response 624496

(1) Dalapon #2 (m)

2.874min 42.153 ppb

response 1990871

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

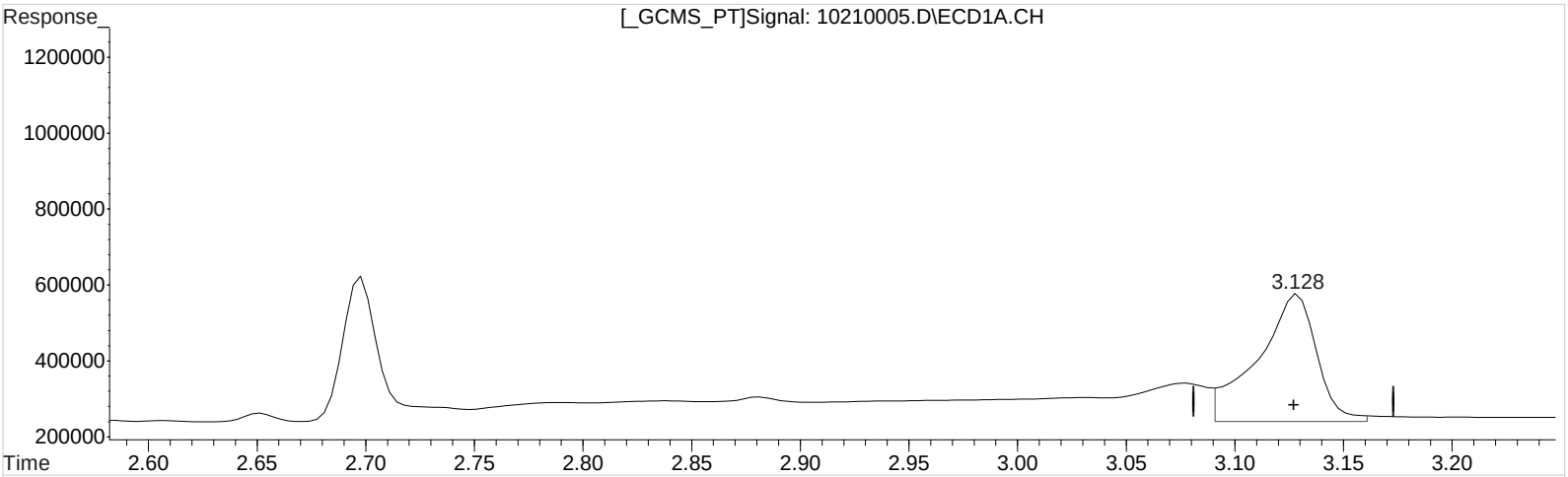
Quantitation Report (Qedit)

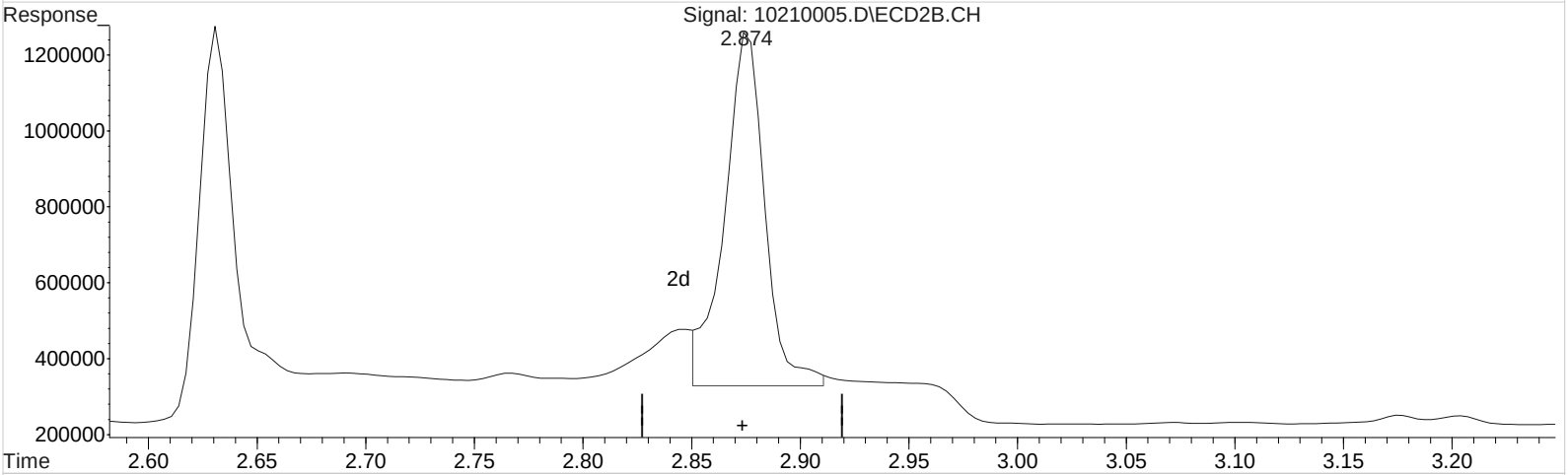
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

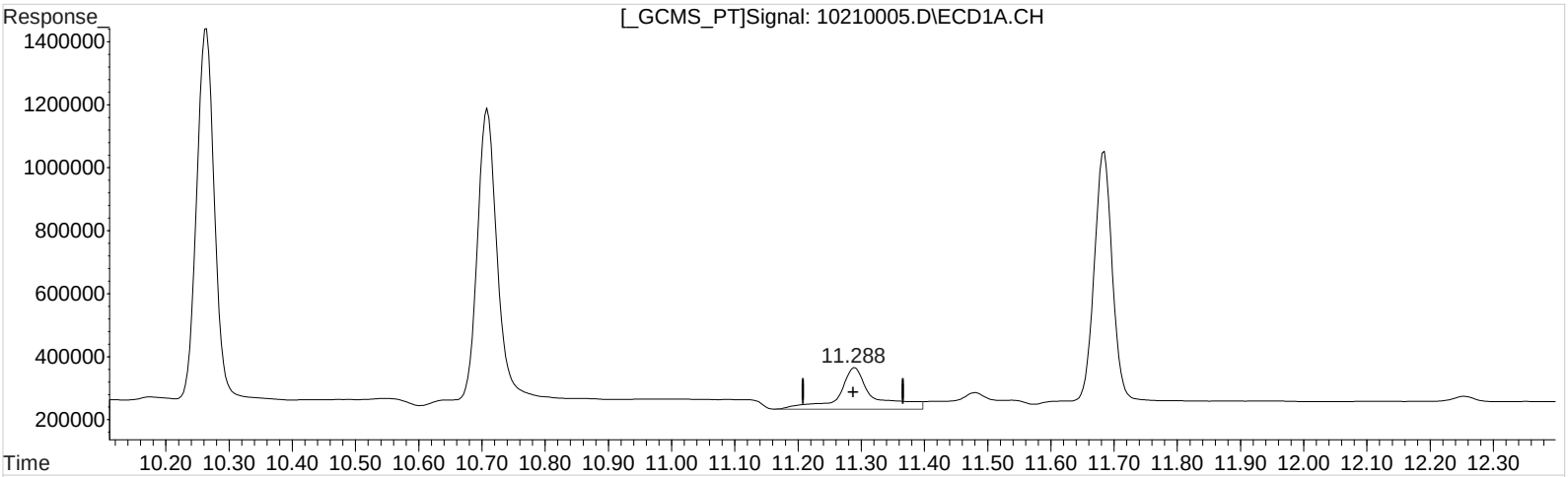
Quantitation Report (Qedit)

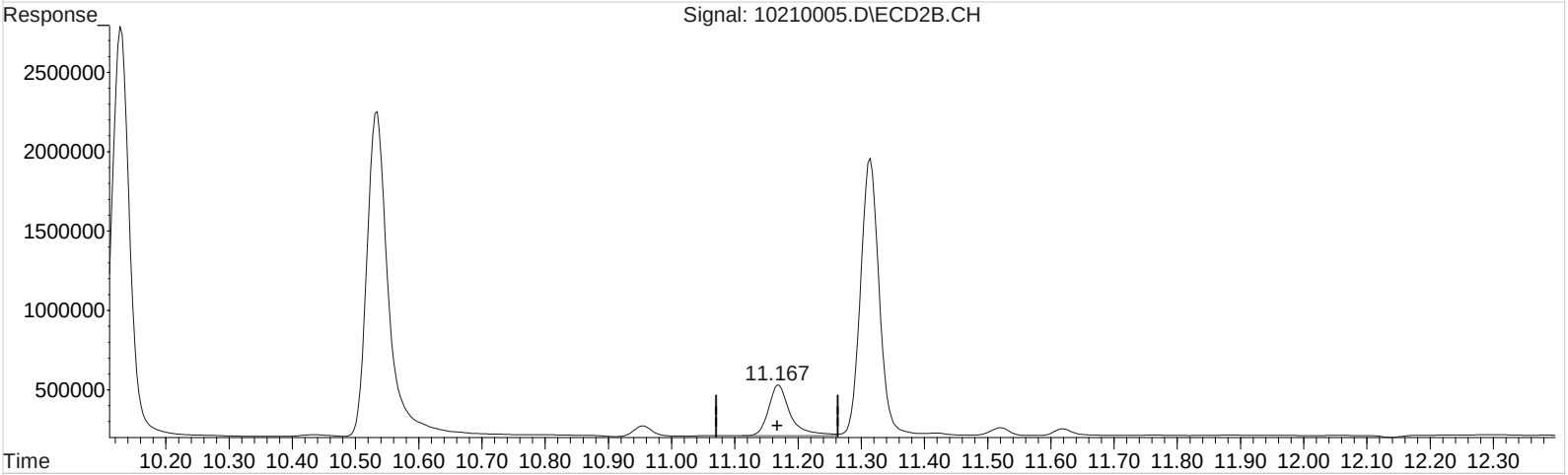
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(10) 2,4-DB (m)

11.288min 50.935 ppb

response 502979

(10) 2,4-DB #2 (m)

11.167min 27.903 ppb

response 763407

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

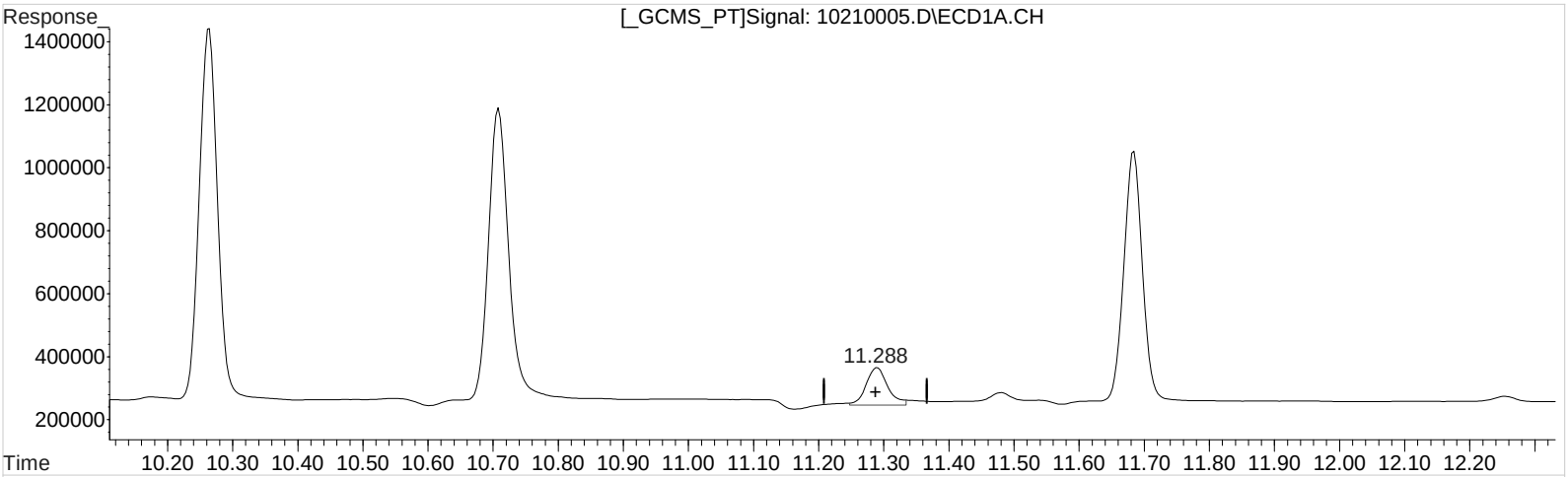
Quantitation Report (Qedit)

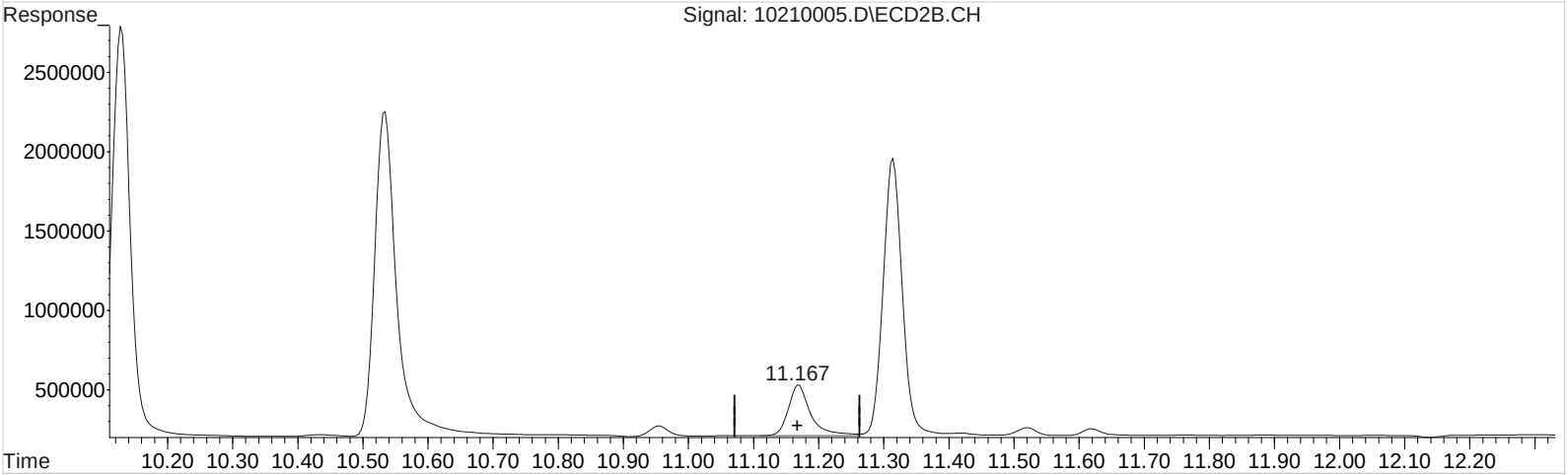
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

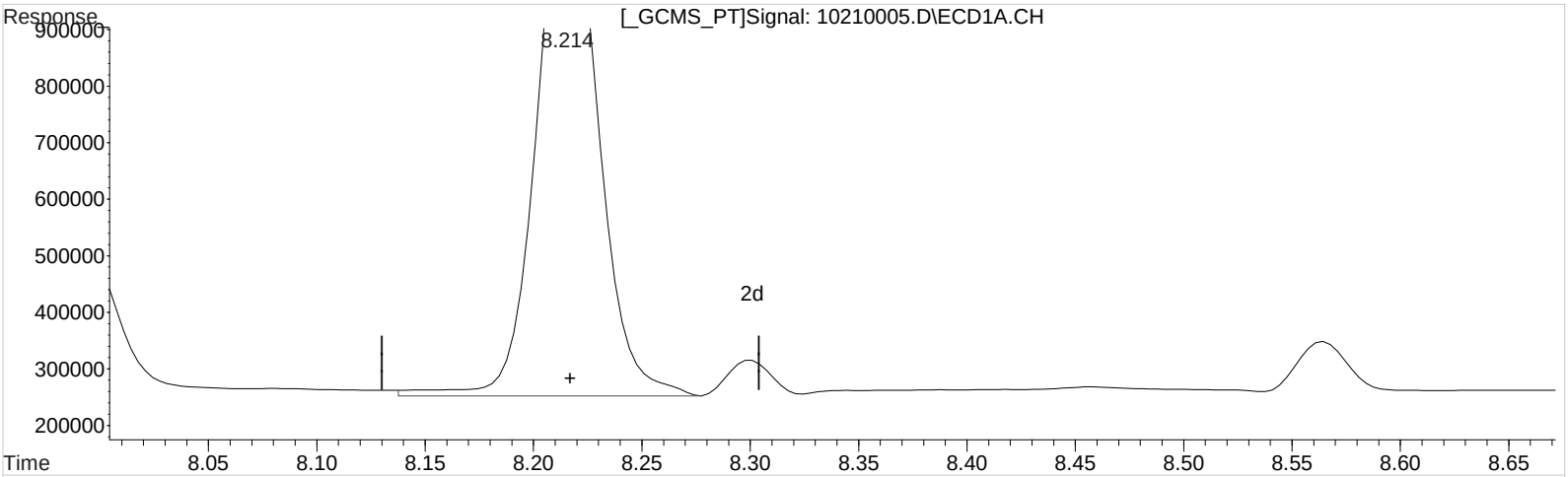
Quantitation Report (Qedit)

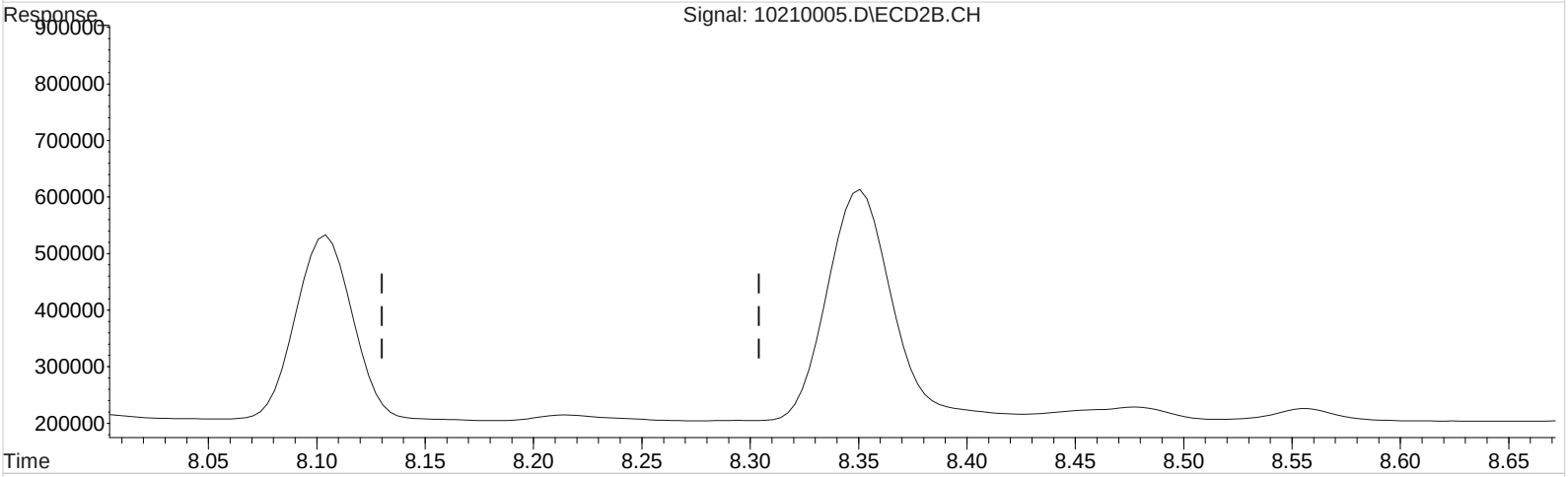
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(3) Dicamba (m)

8.214min 26.882 ppb

response 1823650

(3) Dicamba #2 (m)

7.917min 26.313 ppb

response 3745342

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

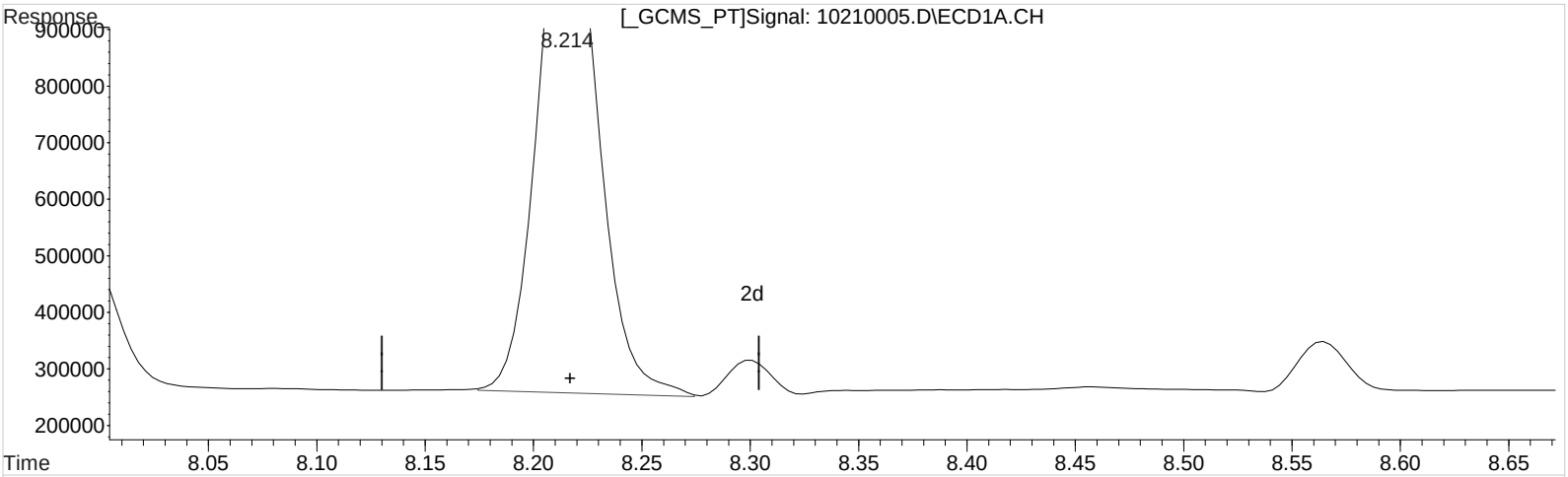
Quantitation Report (Qedit)

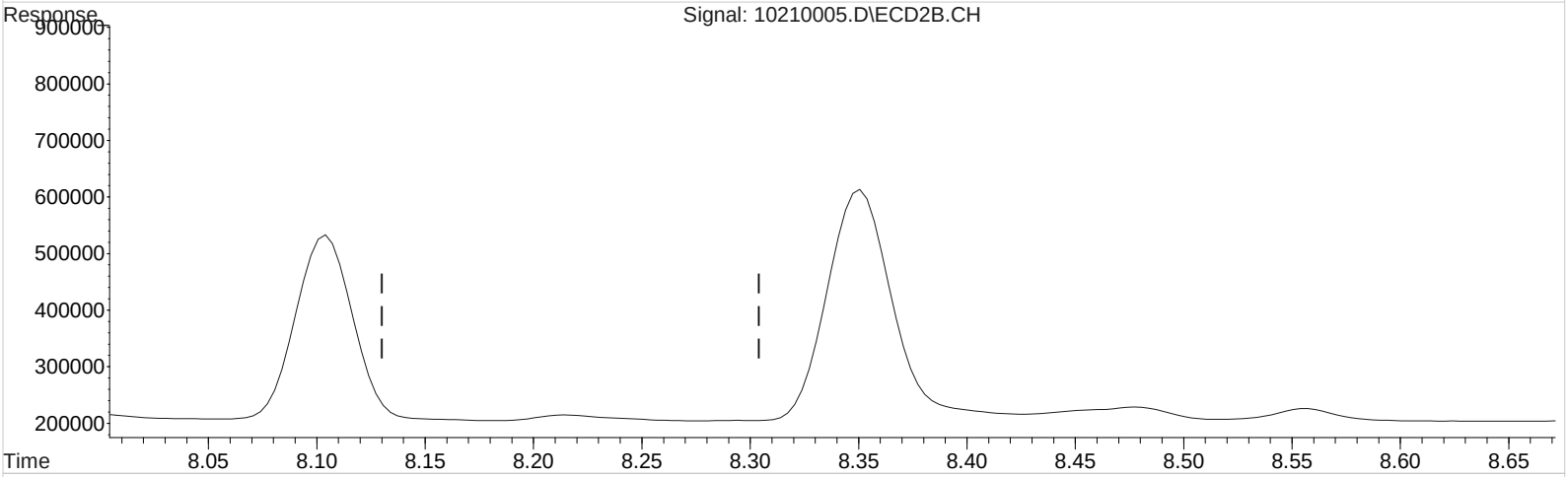
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(3) Dicamba (m)

8.214min 26.131 ppb m

response 1772679

Manual Integration:

After

Baseline/Shoulder

10/21/20

(3) Dicamba #2 (m)

7.917min 26.313 ppb

response 3745342

(+) = Expected Retention Time

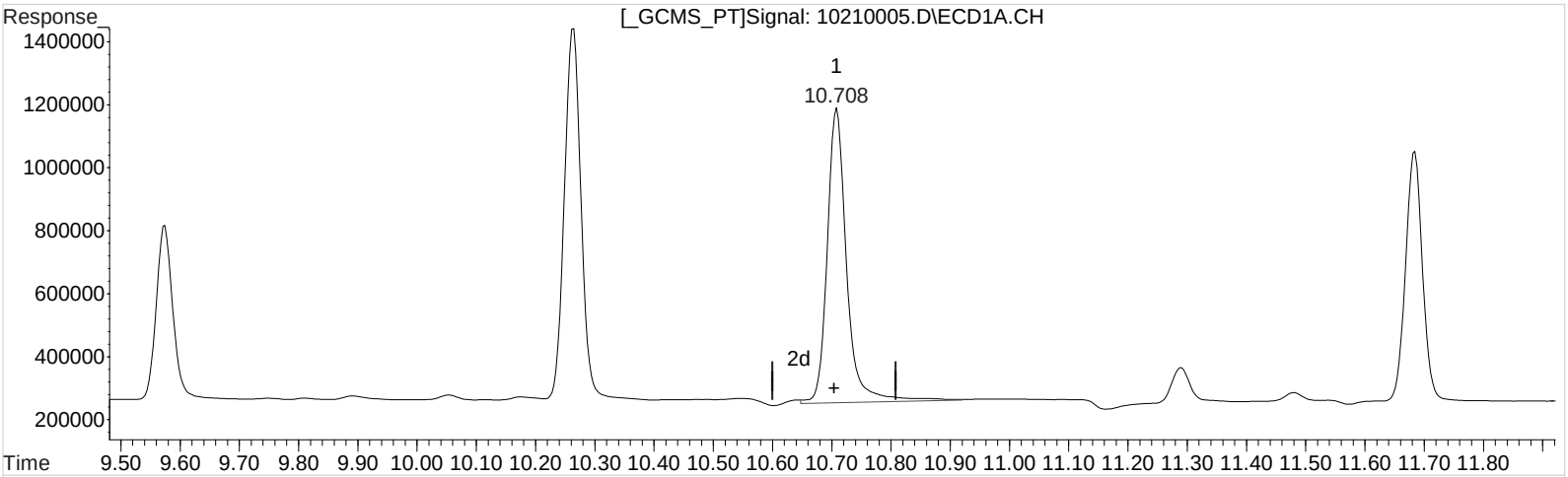
Quantitation Report (Qedit)

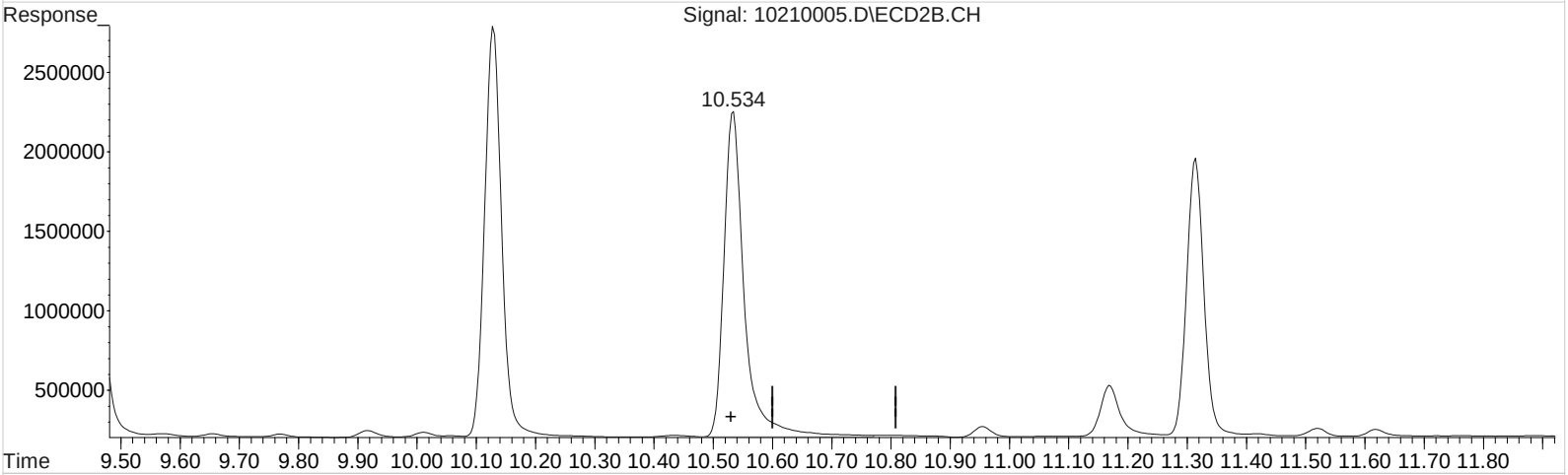
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(9) 2,4,5-T (m)

10.708min 26.371 ppb

response 2135780

(9) 2,4,5-T #2 (m)

10.534min 26.821 ppb

response 4914810

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

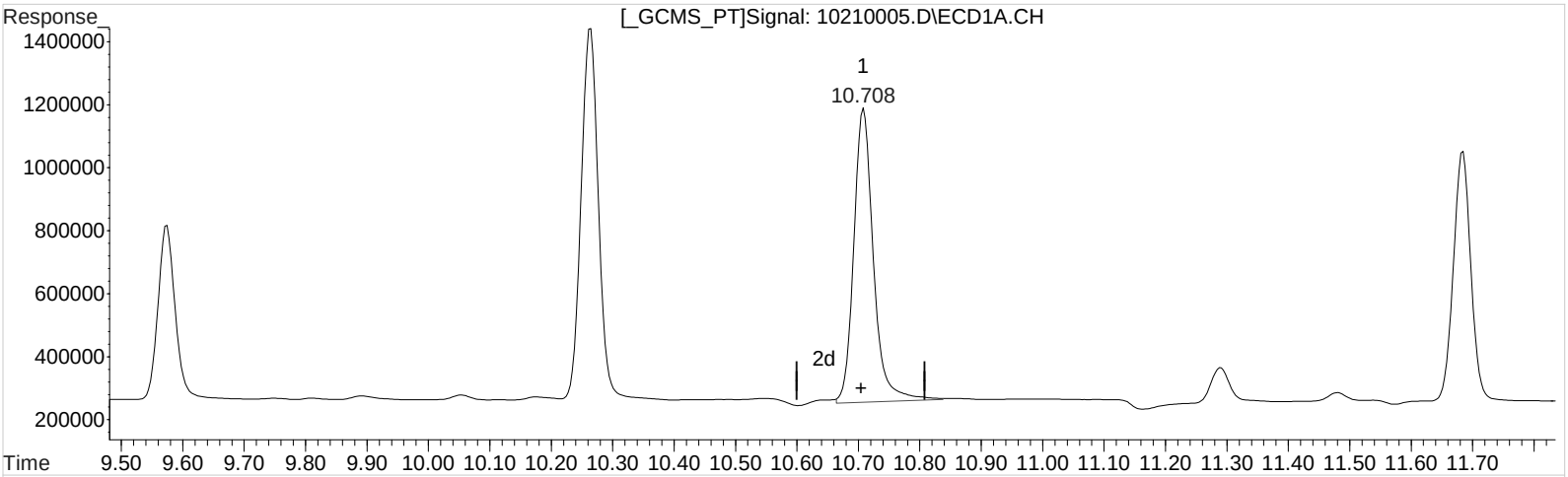
Quantitation Report (Qedit)

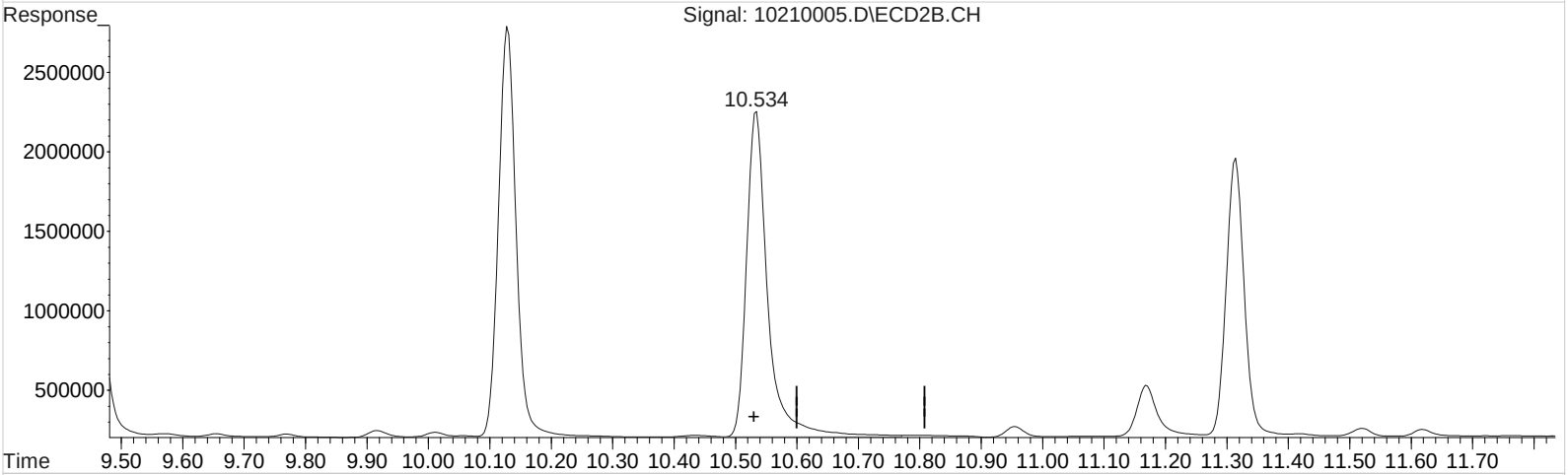
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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 17:26:03 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.

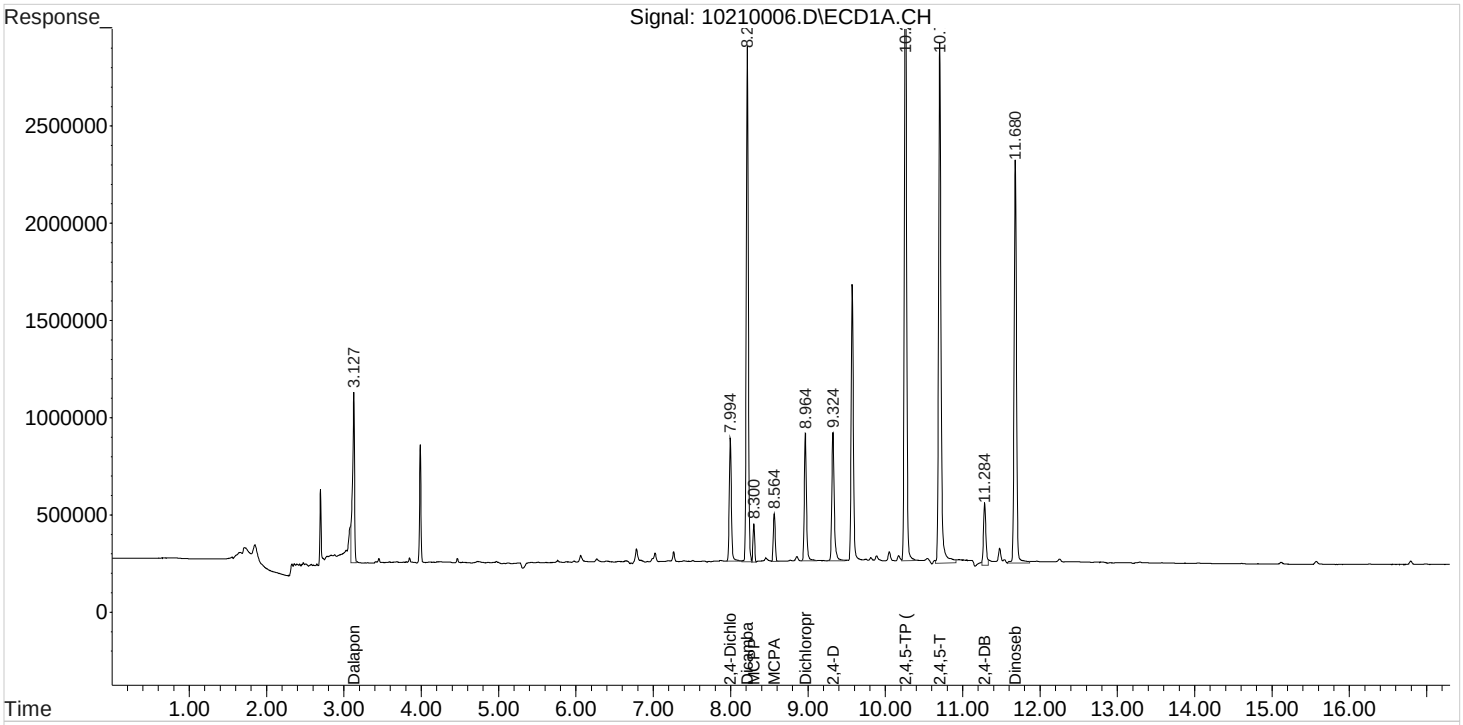
Quantitation Report (QT Reviewed)

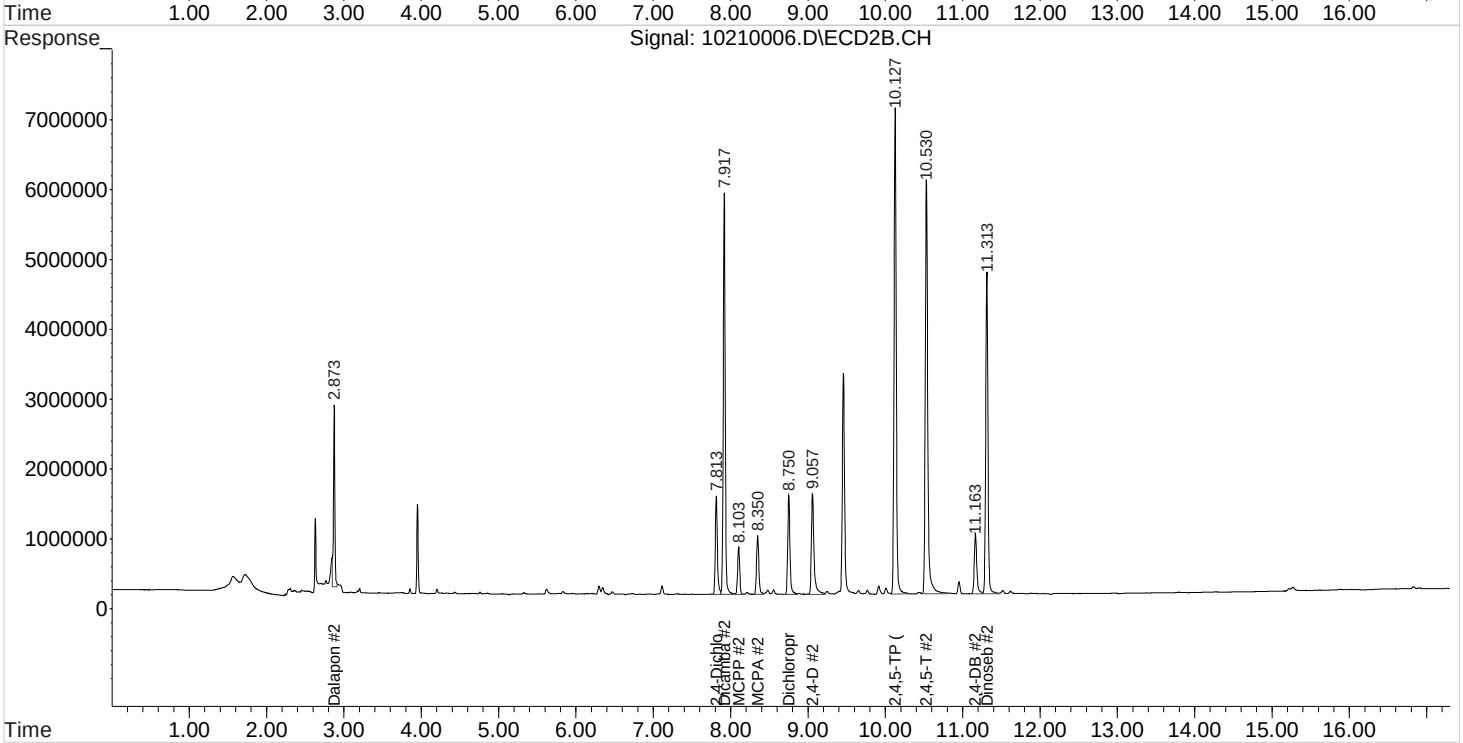
1st UA 10/21/20
2nd 10/22/20

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 17:26:03 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





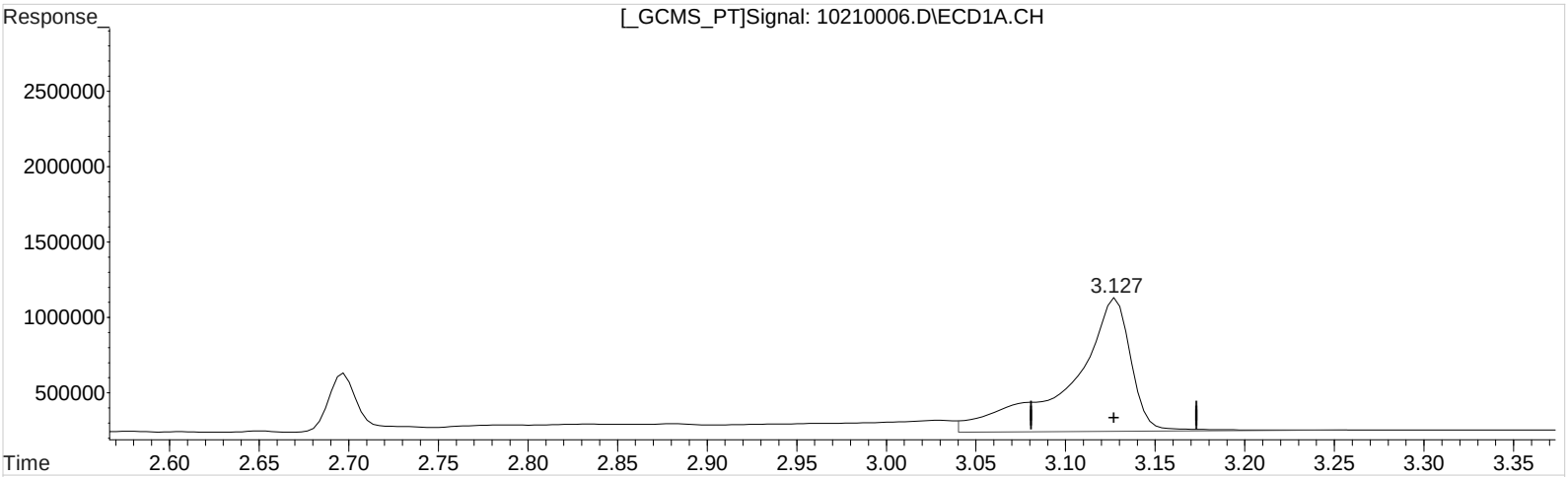
Quantitation Report (Qedit)

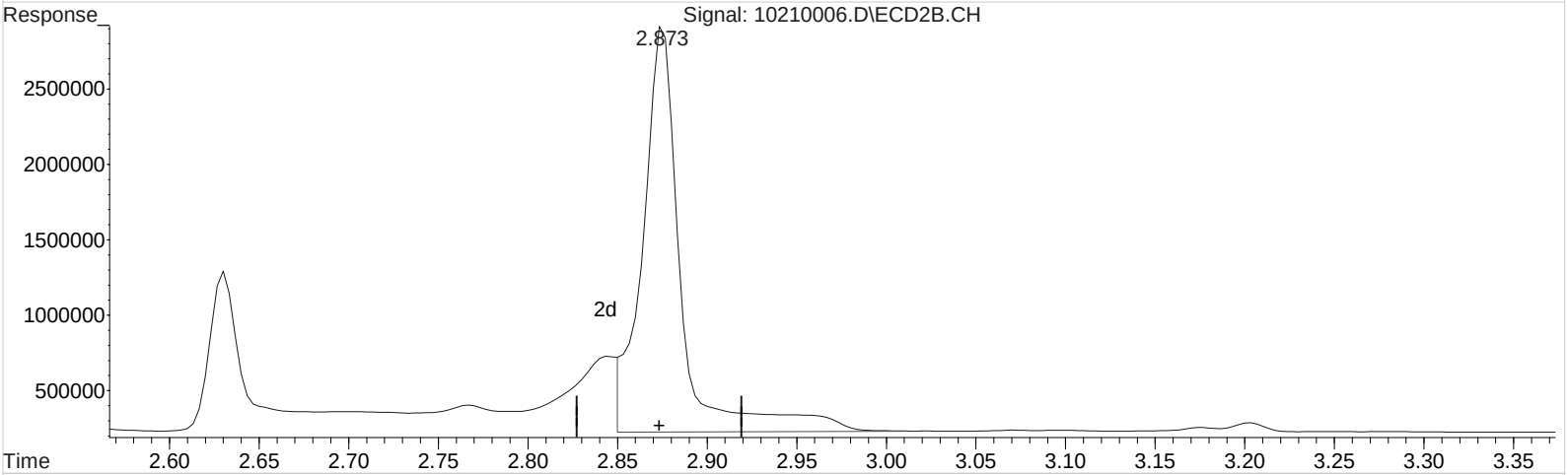
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

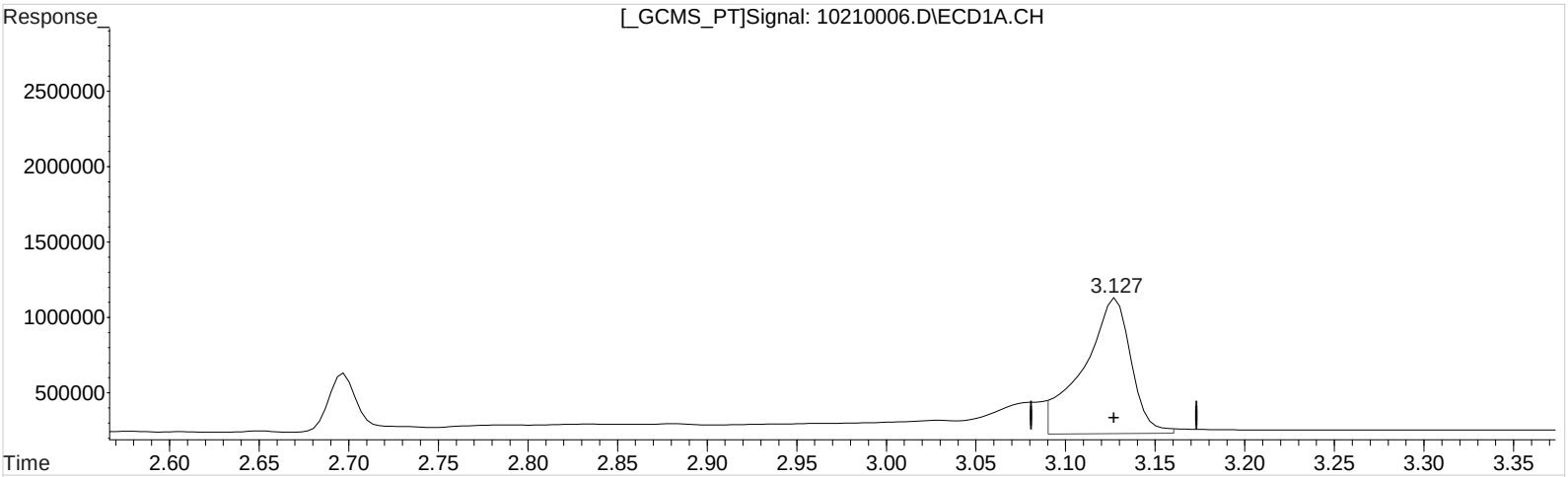
Quantitation Report (Qedit)

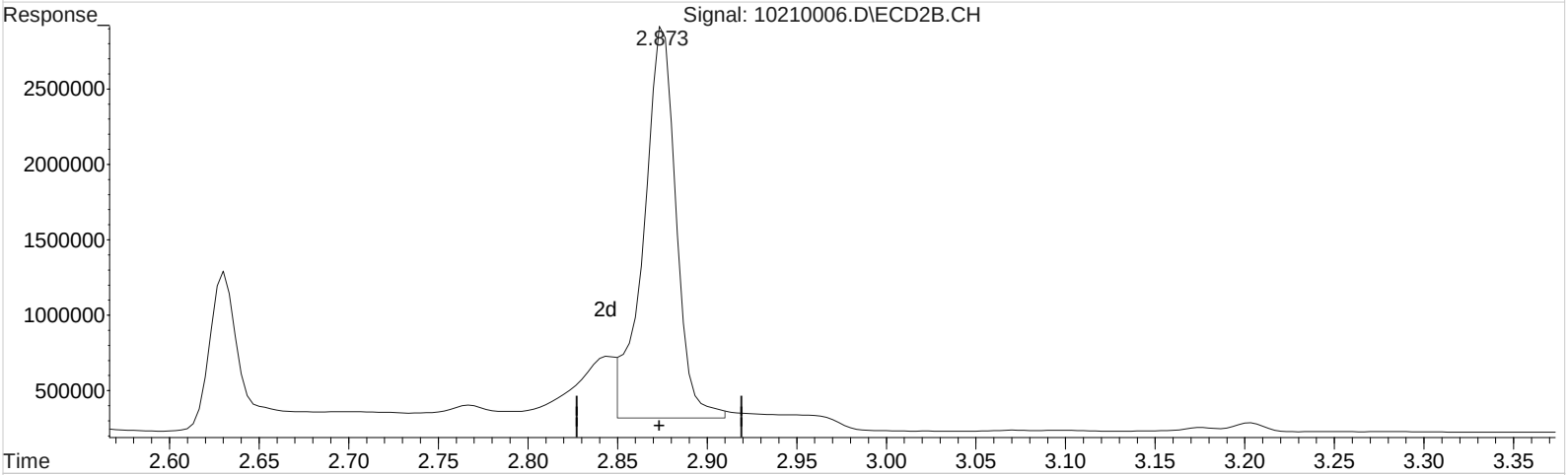
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

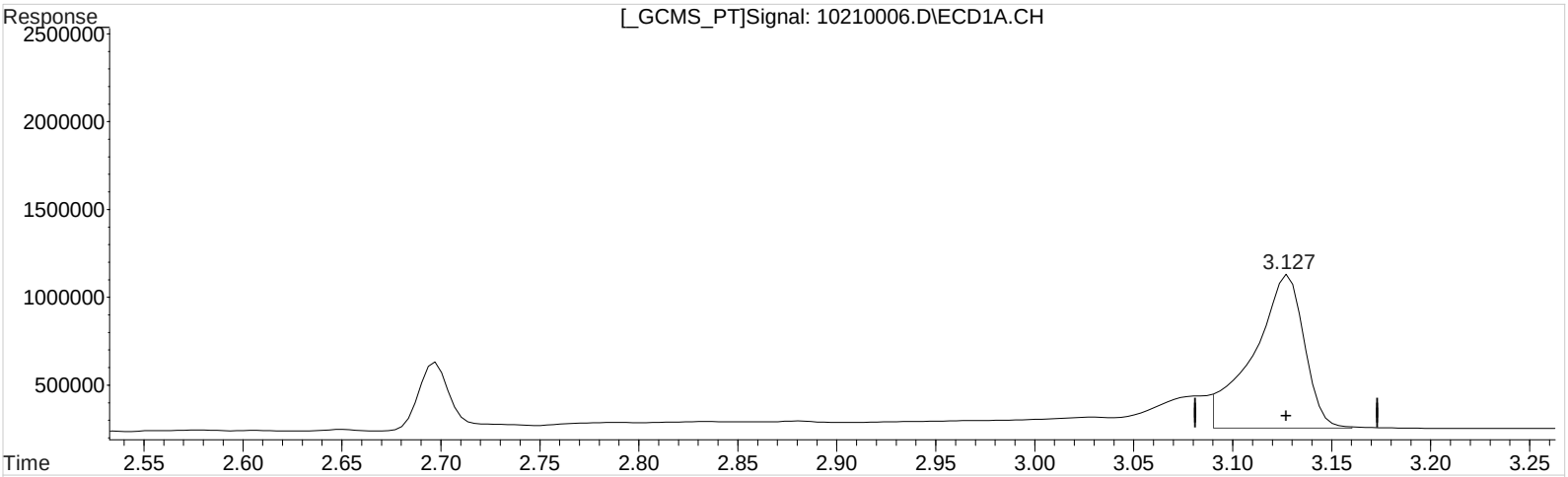
Quantitation Report (Qedit)

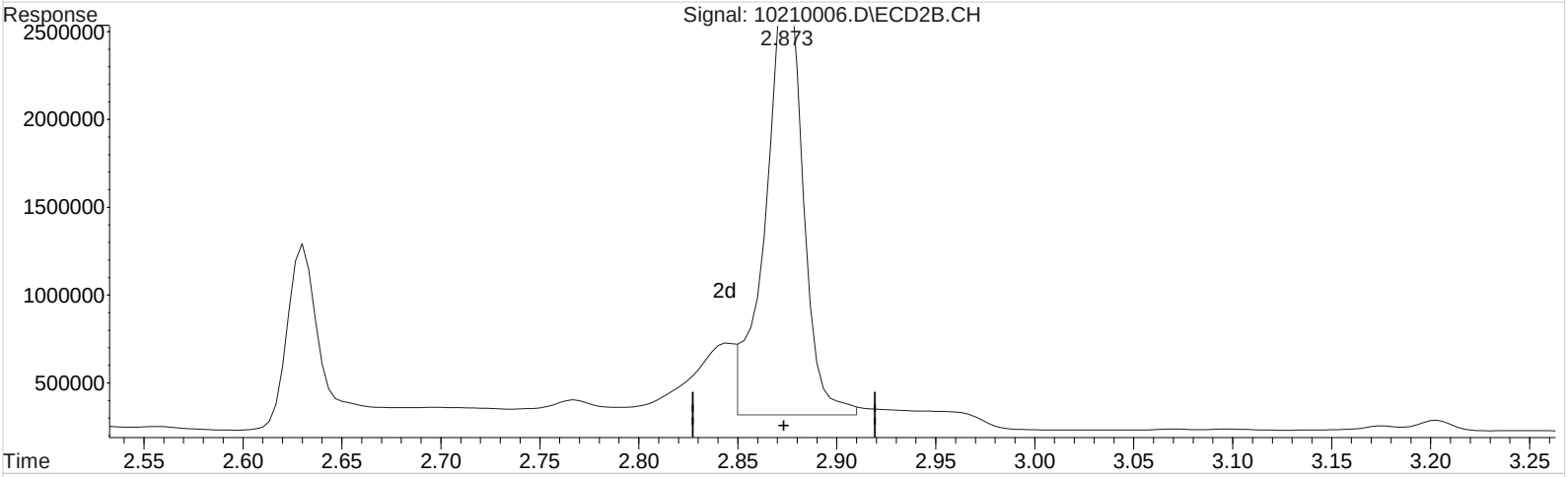
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.127min 65.523 ppb m

response 1539560

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 67.872 ppb m

response 3208933

(+) = Expected Retention Time

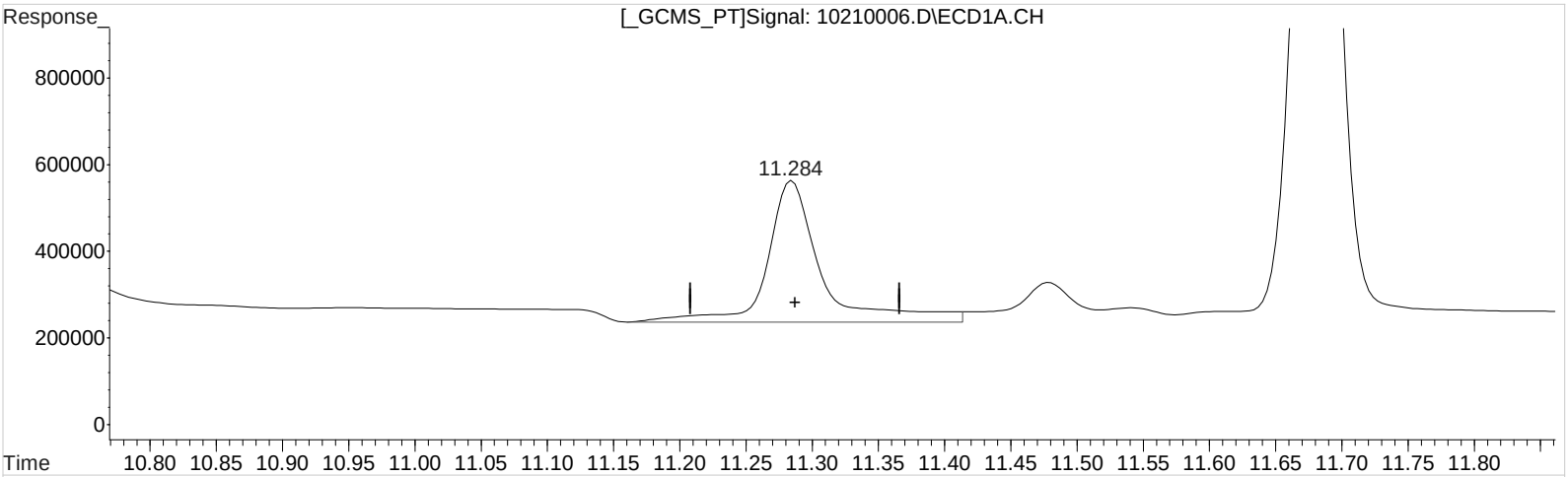
Quantitation Report (Qedit)

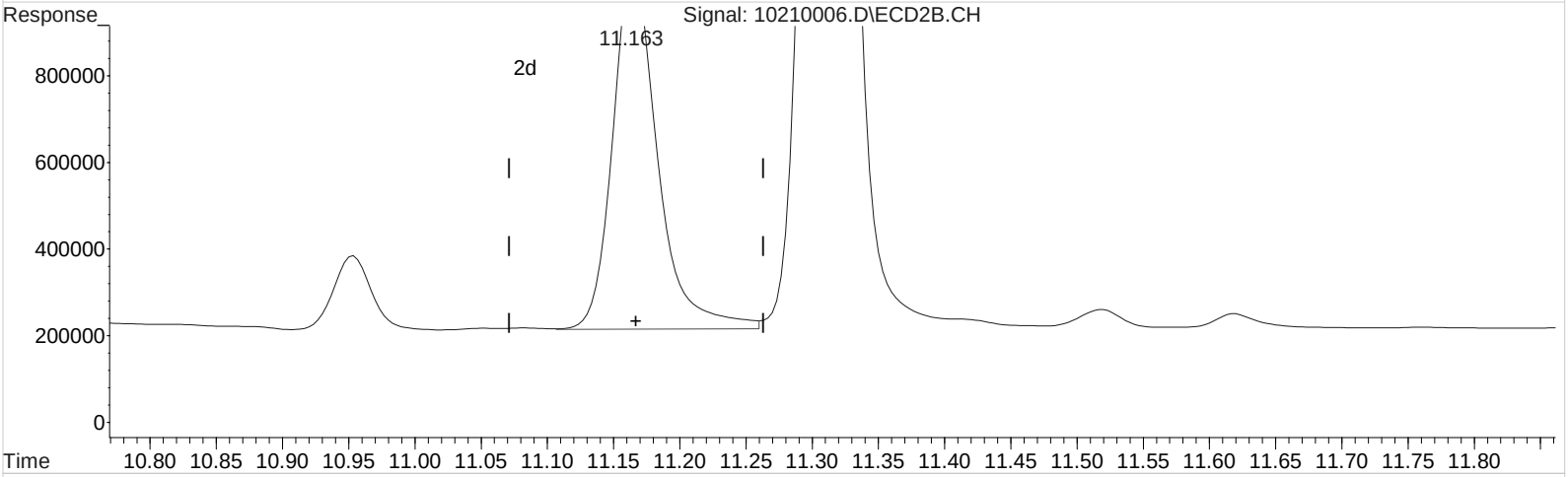
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(10) 2,4-DB (m)

11.284min 94.555 ppb

response 930876

(10) 2,4-DB #2 (m)

11.163min 72.345 ppb

response 1973095

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

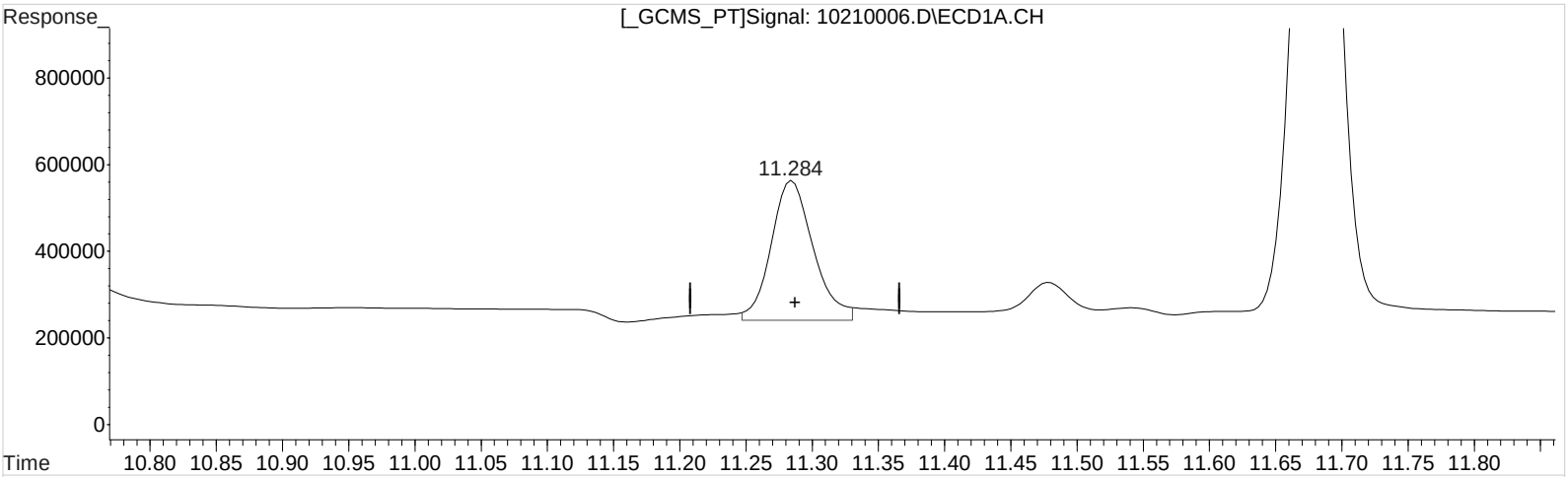
Quantitation Report (Qedit)

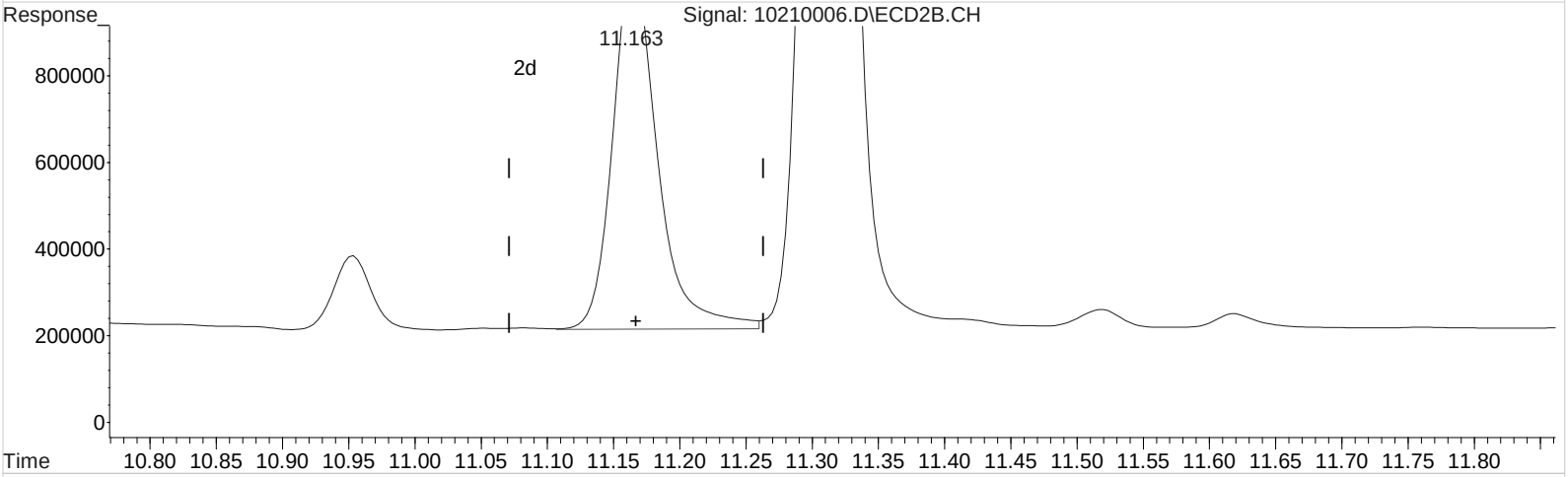
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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 17:16:06 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.

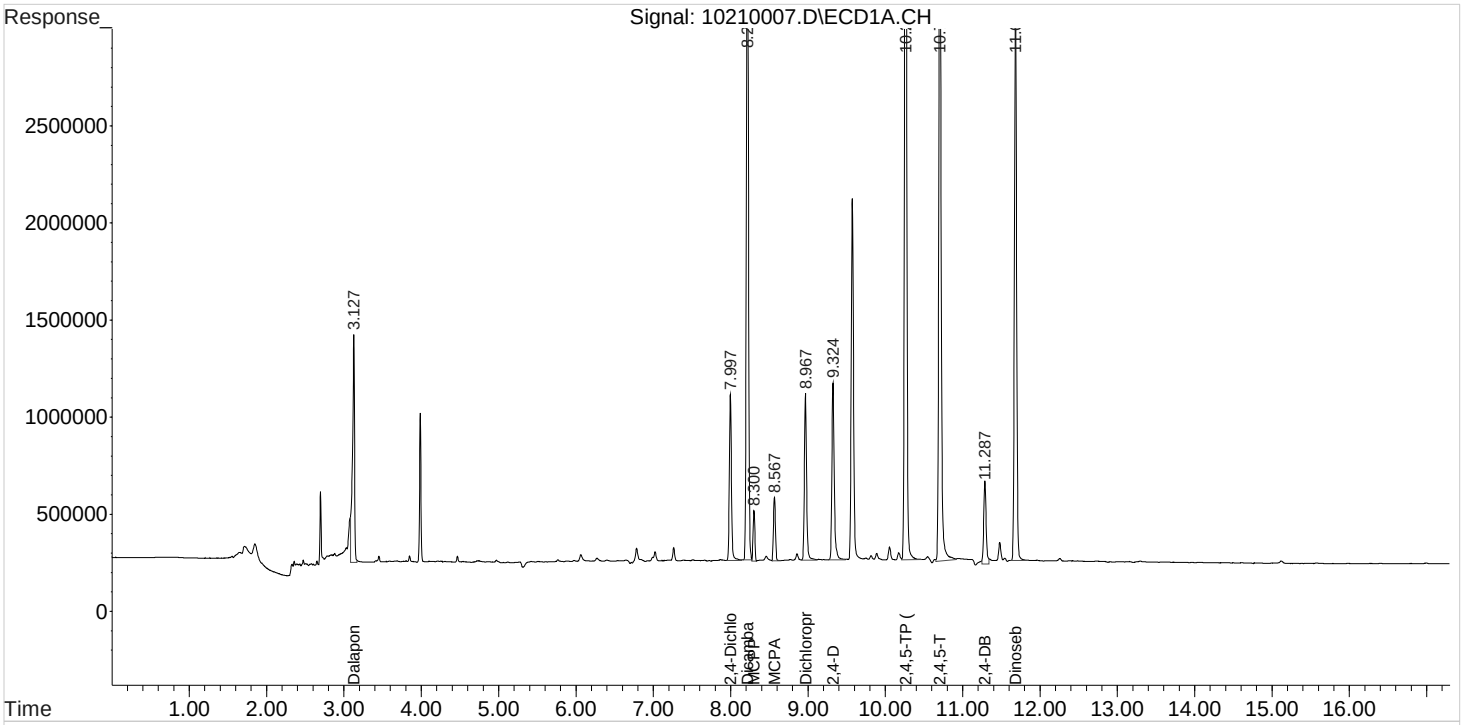
Quantitation Report (QT Reviewed)

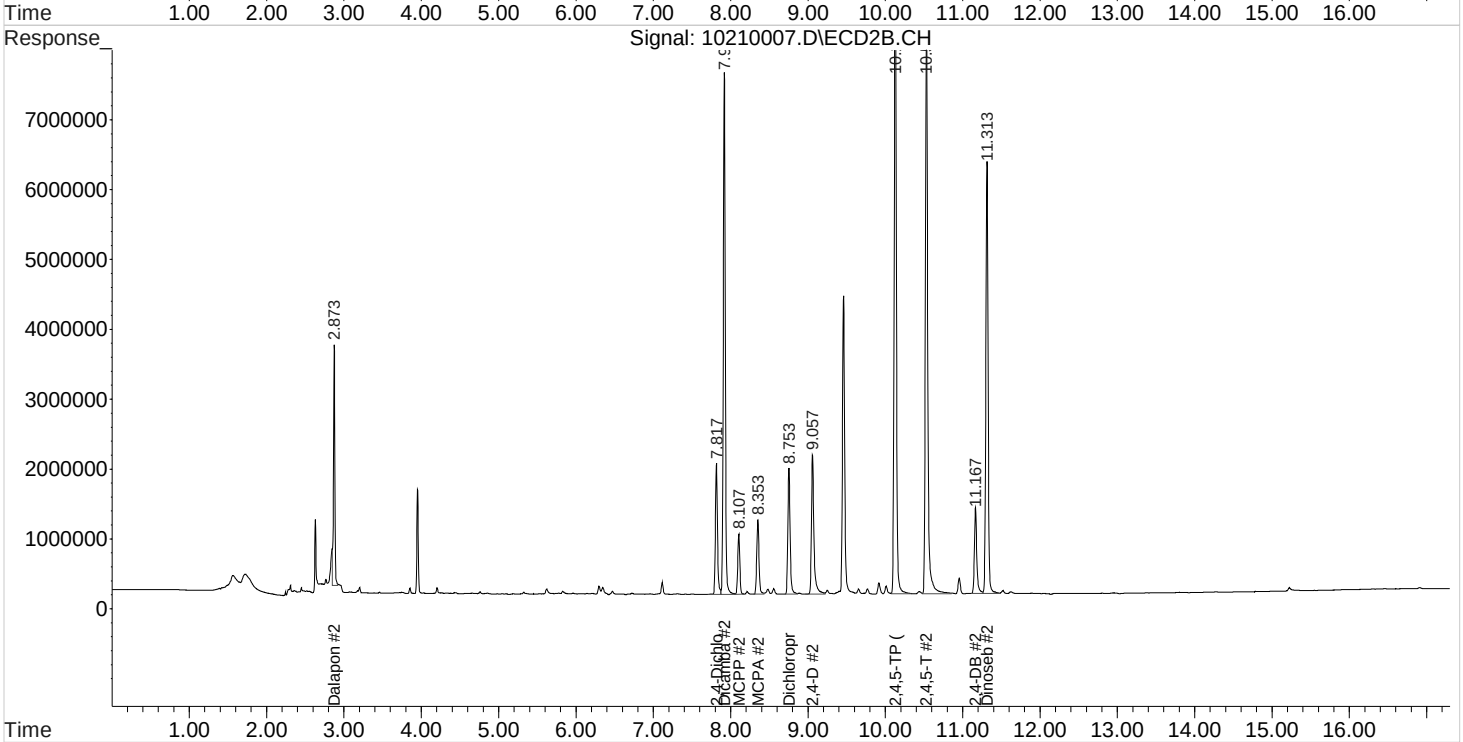
1st UA 10/21/20
2nd 10/22/20

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 17:16:06 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





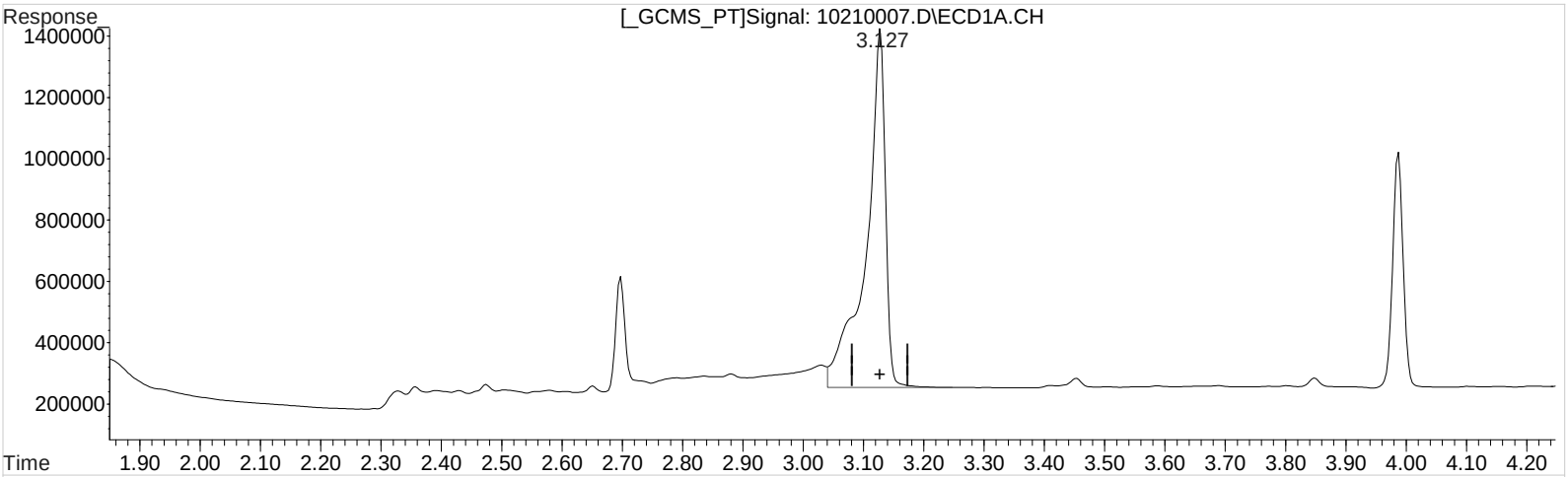
Quantitation Report (Qedit)

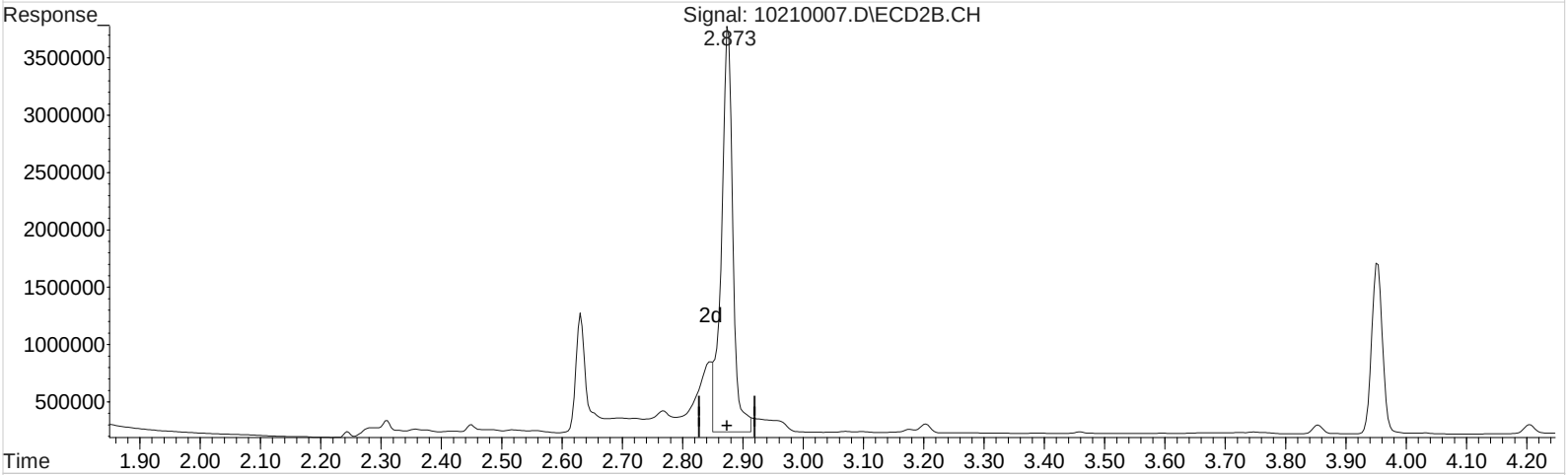
1st UA 10/21/20
2nd 10/22/20

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 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





QEdit

(1) Dalapon (m)

3.127min 91.100 ppb

response 2583448

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.873min 90.173 ppb m

response 4587035

(+) = Expected Retention Time

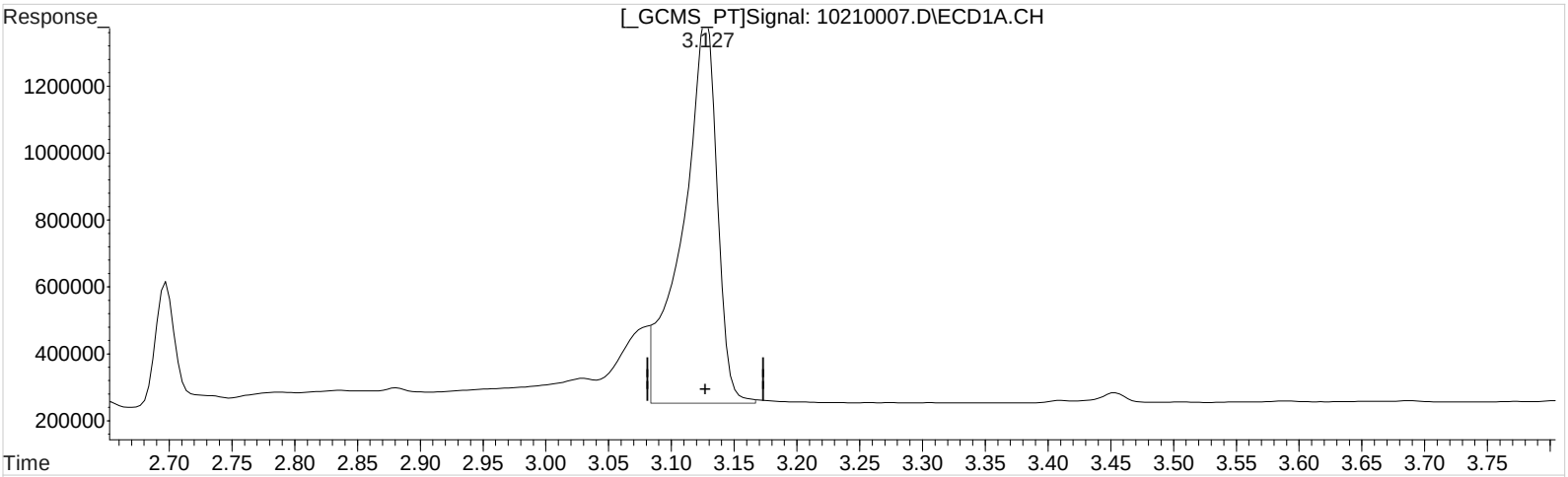
Quantitation Report (Qedit)

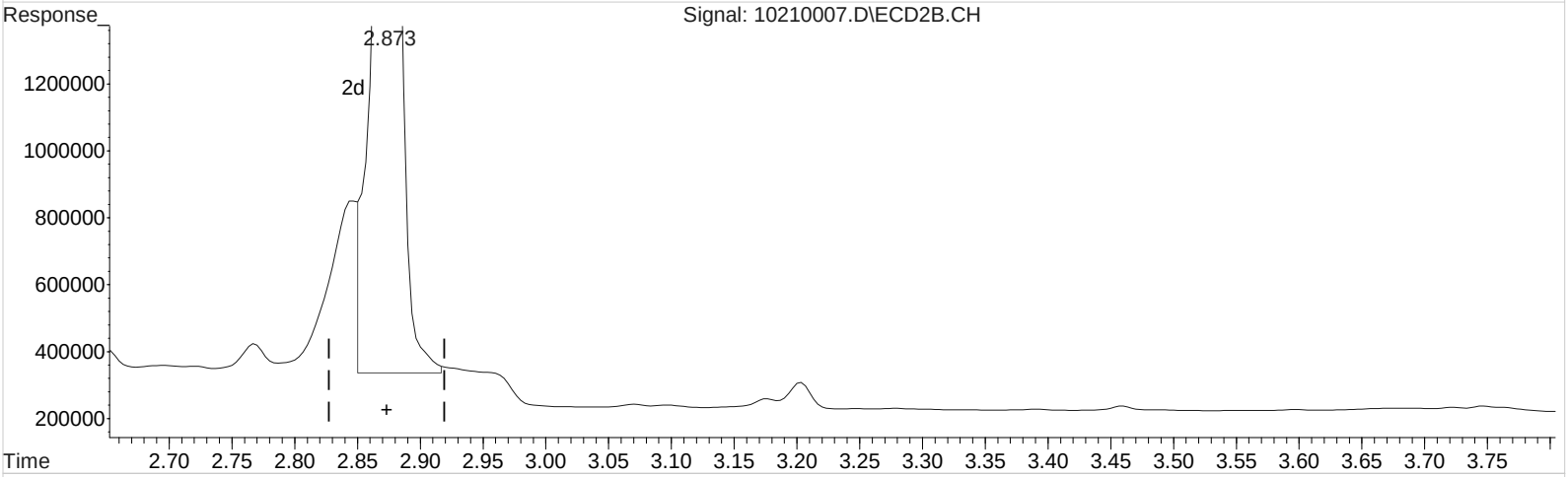
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.127min 94.759 ppb m

response 2162531

(1) Dalapon #2 (m)

2.873min 90.872 ppb m

response 4219125

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

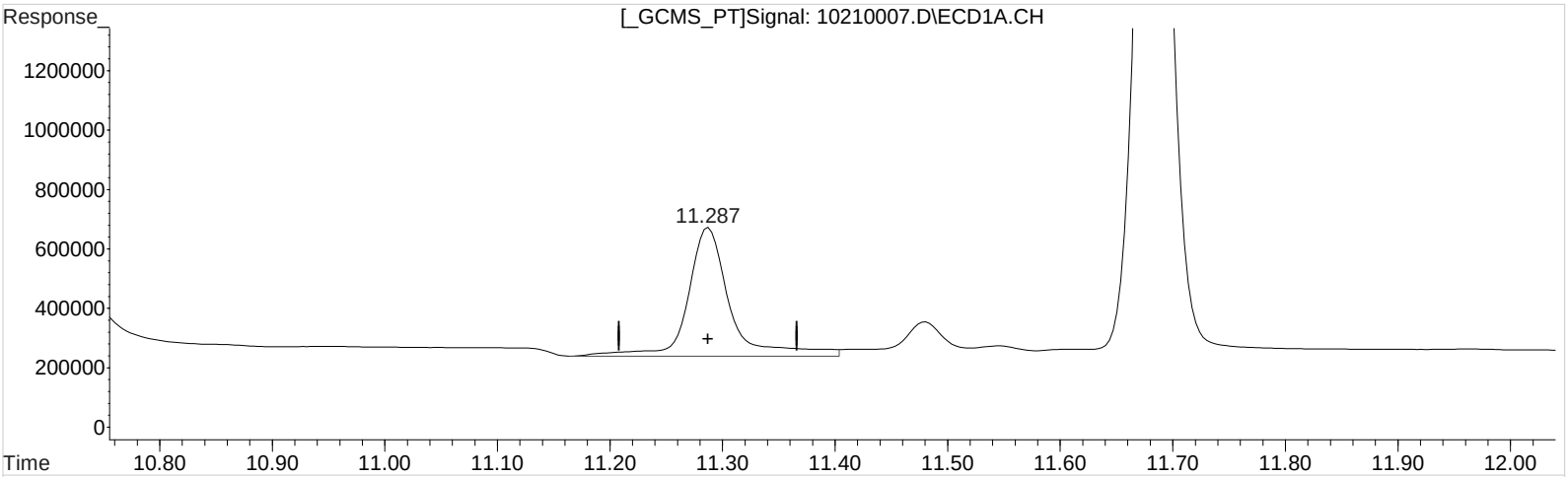
Quantitation Report (Qedit)

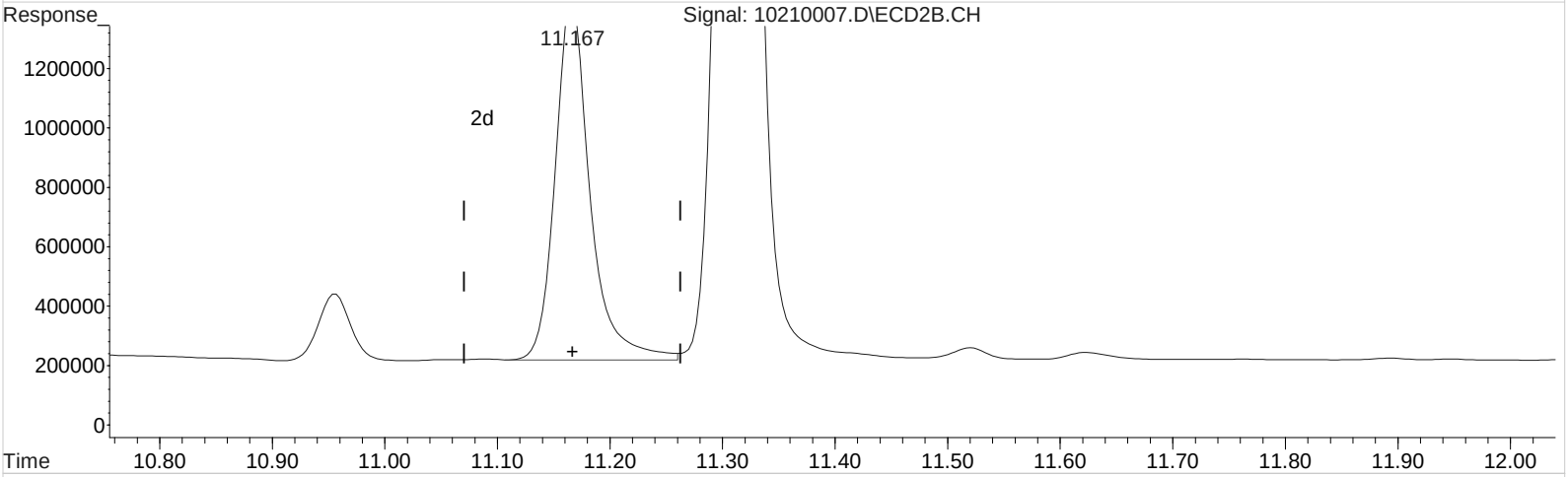
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

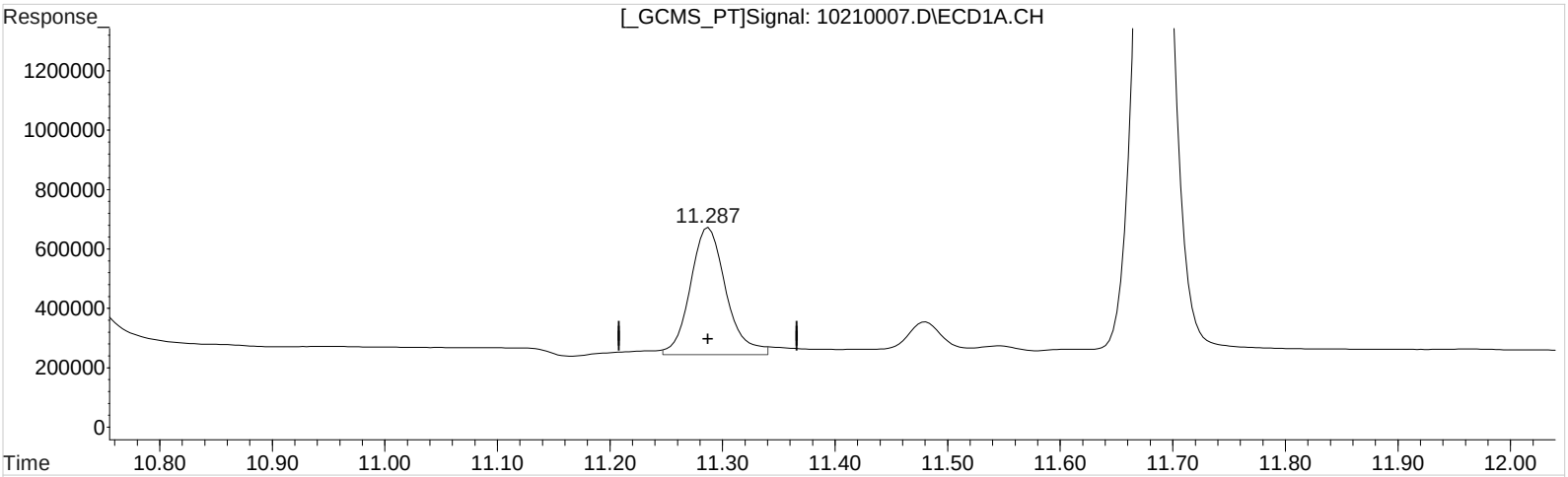
Quantitation Report (Qedit)

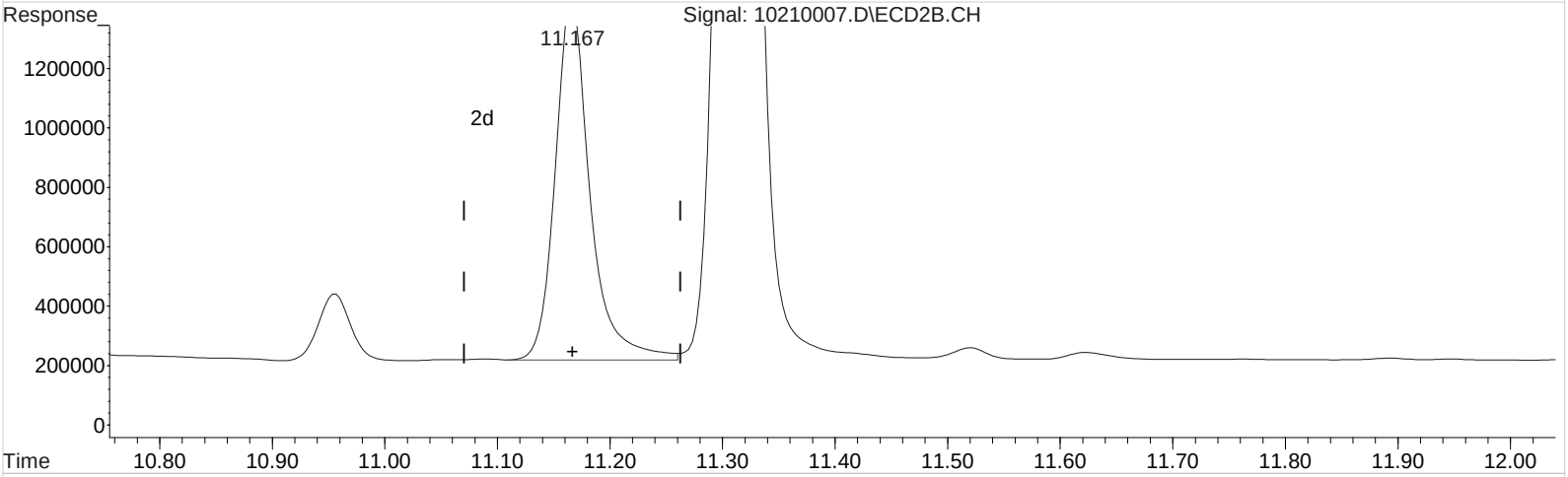
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

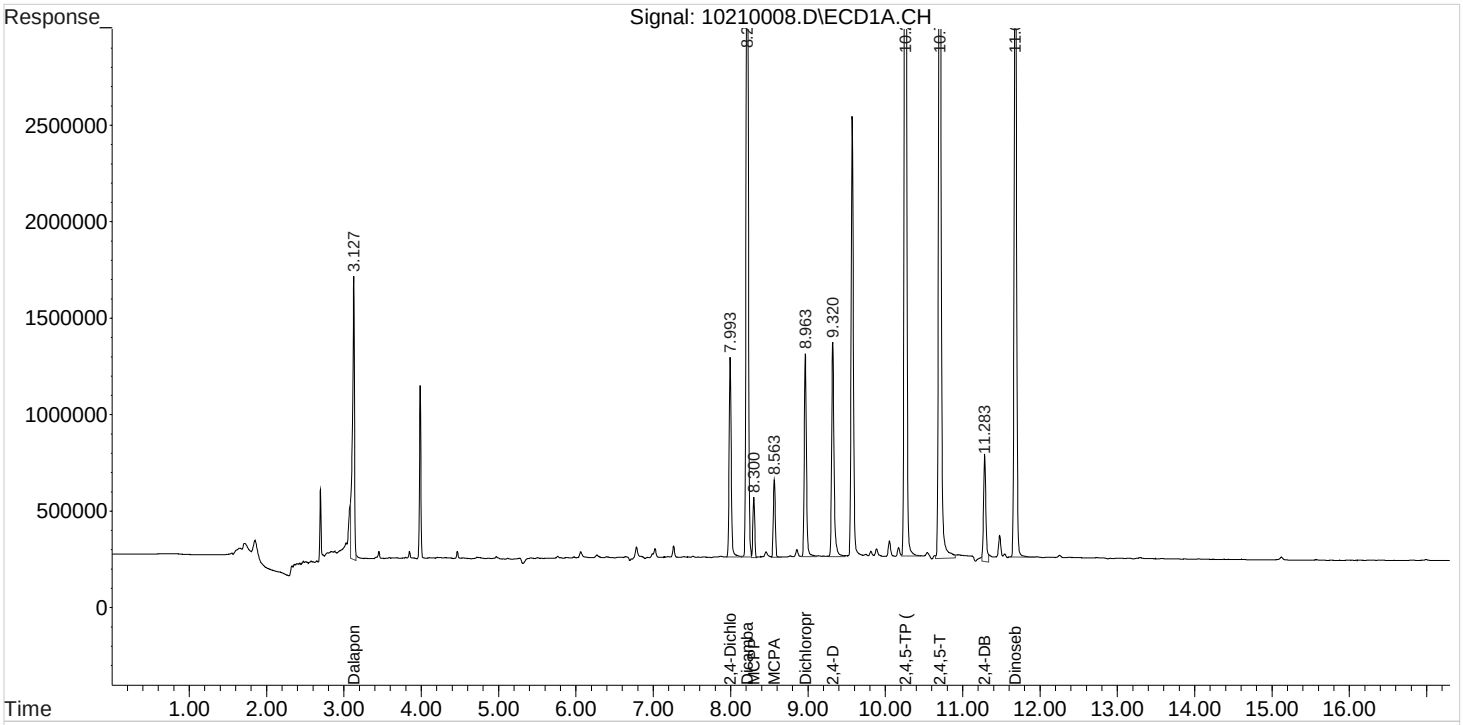
Quantitation Report (QT Reviewed)

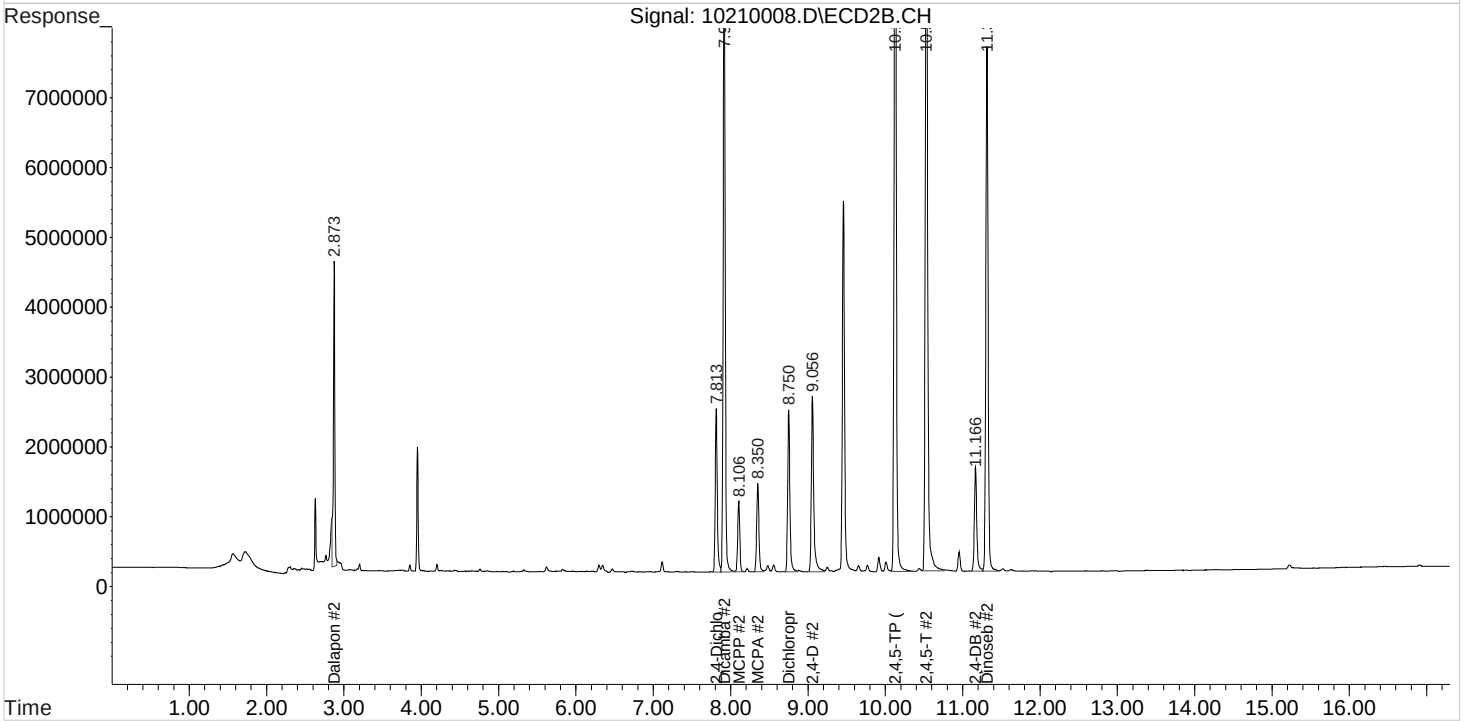
1st UA 10/21/20
2nd 10/22/20

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





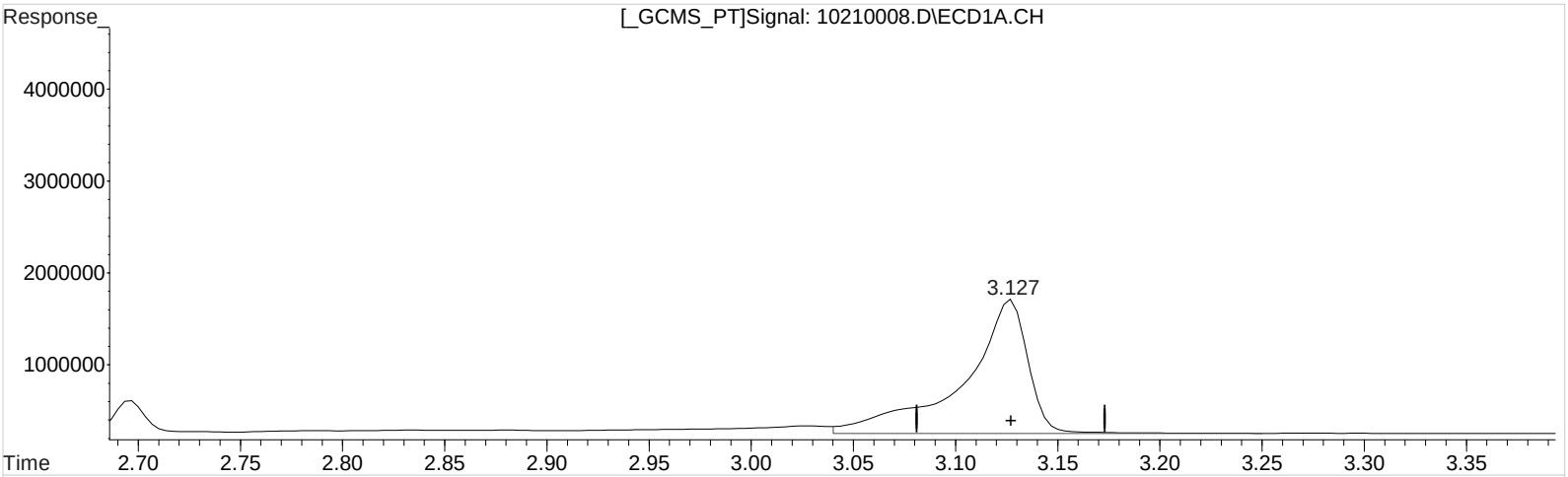
Quantitation Report (Qedit)

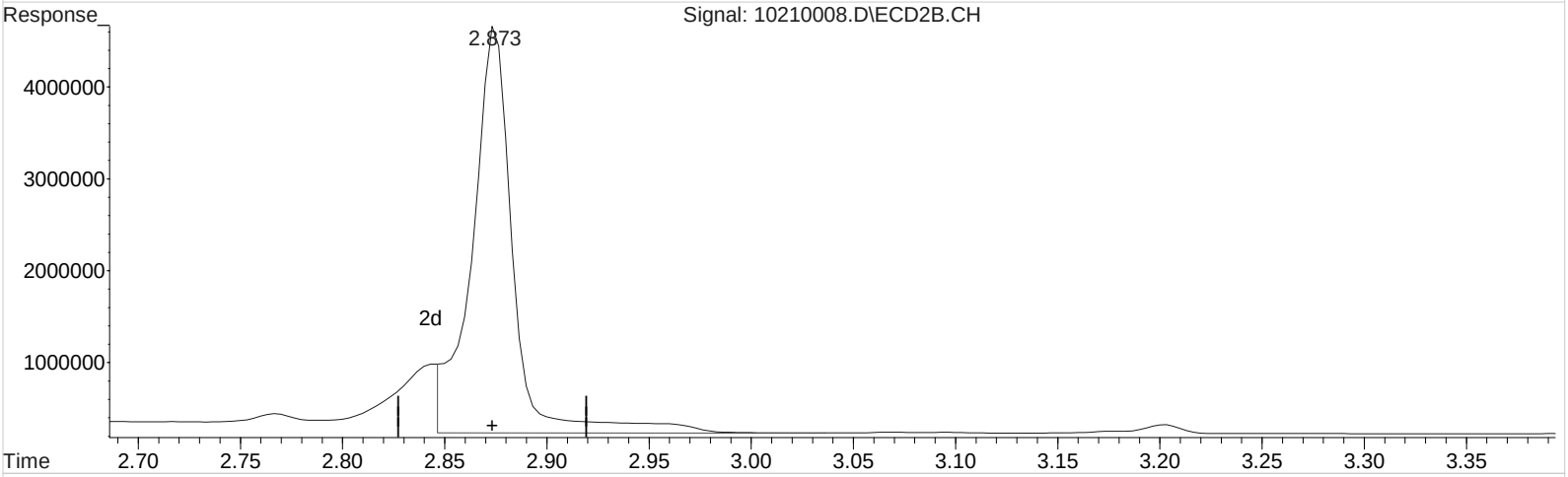
1st UA 10/21/20
2nd 10/22/20

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 17:22:59 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

(1) Dalapon (m)

3.127min 135.159 ppb

response 3177545

(1) Dalapon #2 (m)

2.873min 131.218 ppb

response 6167907

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

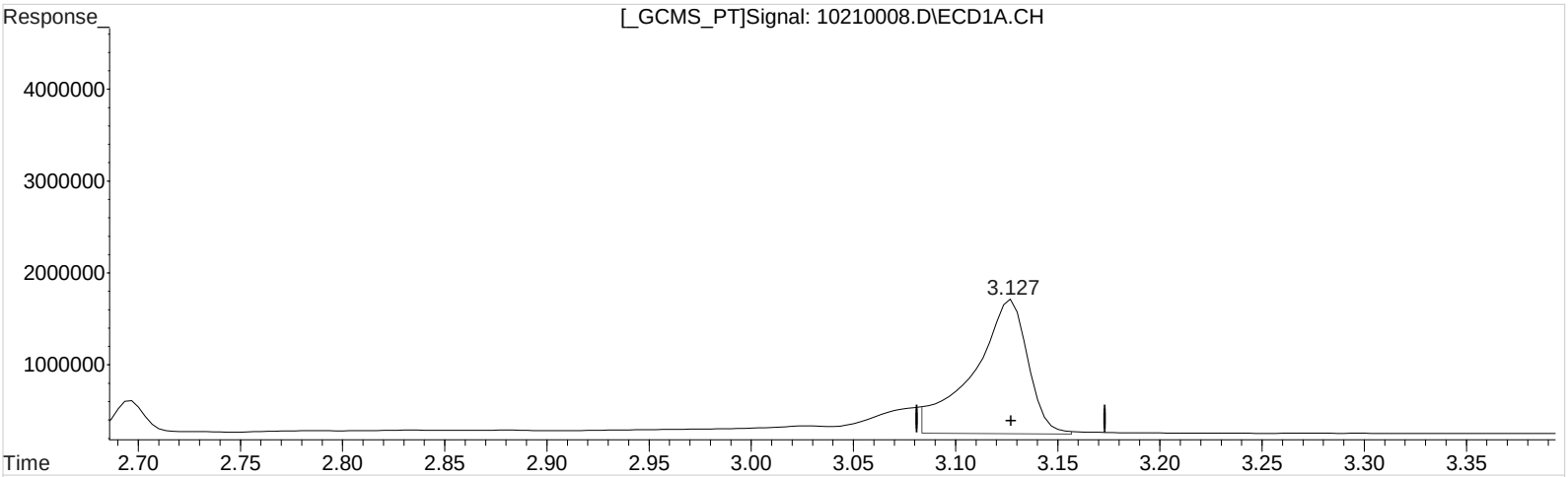
Quantitation Report (Qedit)

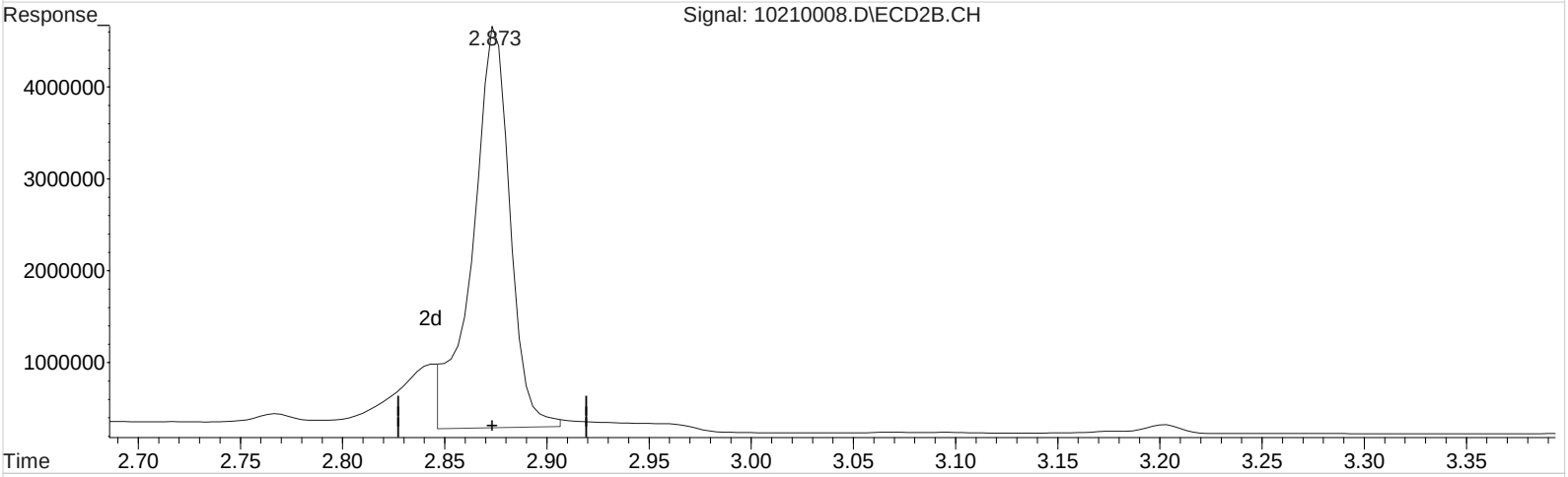
1st UA 10/21/20
2nd 10/22/20

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 17:22:59 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

(1) Dalapon (m)

3.127min 113.511 ppb m

response 2668589

(1) Dalapon #2 (m)

2.873min 117.152 ppb m

response 5506745

Manual Integration:

After

Baseline/Shoulder

10/21/20

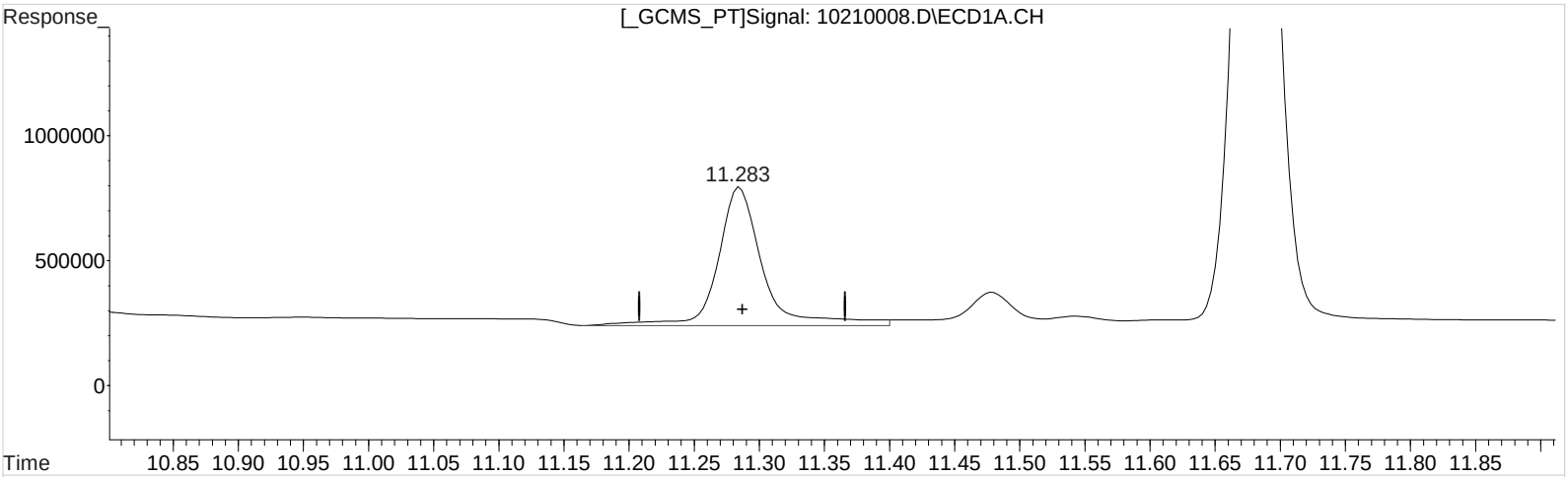
(+) = Expected Retention Time

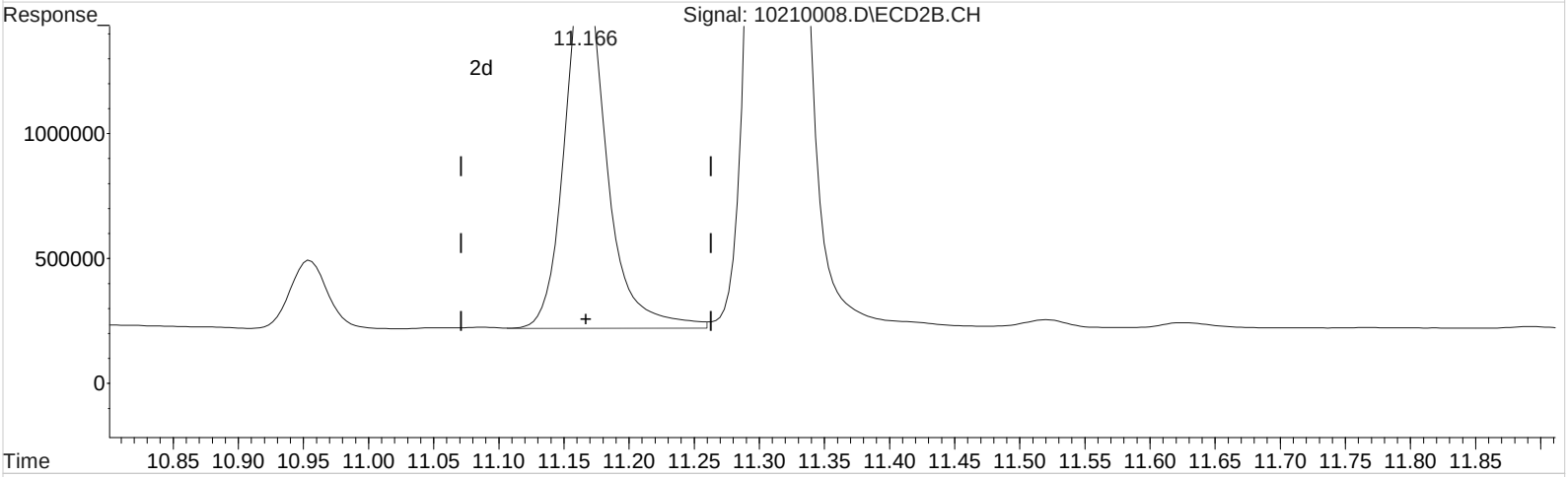
1st UA 10/21/20
2nd 10/22/20

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 17:22:59 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

(10) 2,4-DB #2 (m)

11.166min 118.254 ppb

response 3225586

Manual Integration:

Before

10/21/20

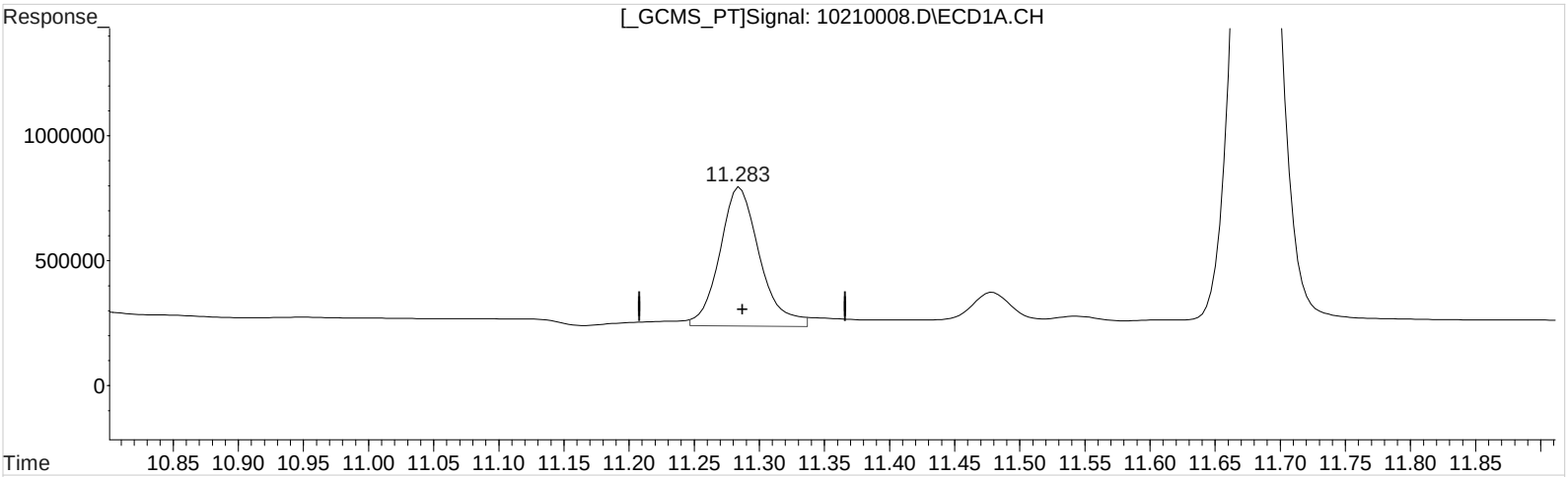
(+) = Expected Retention Time

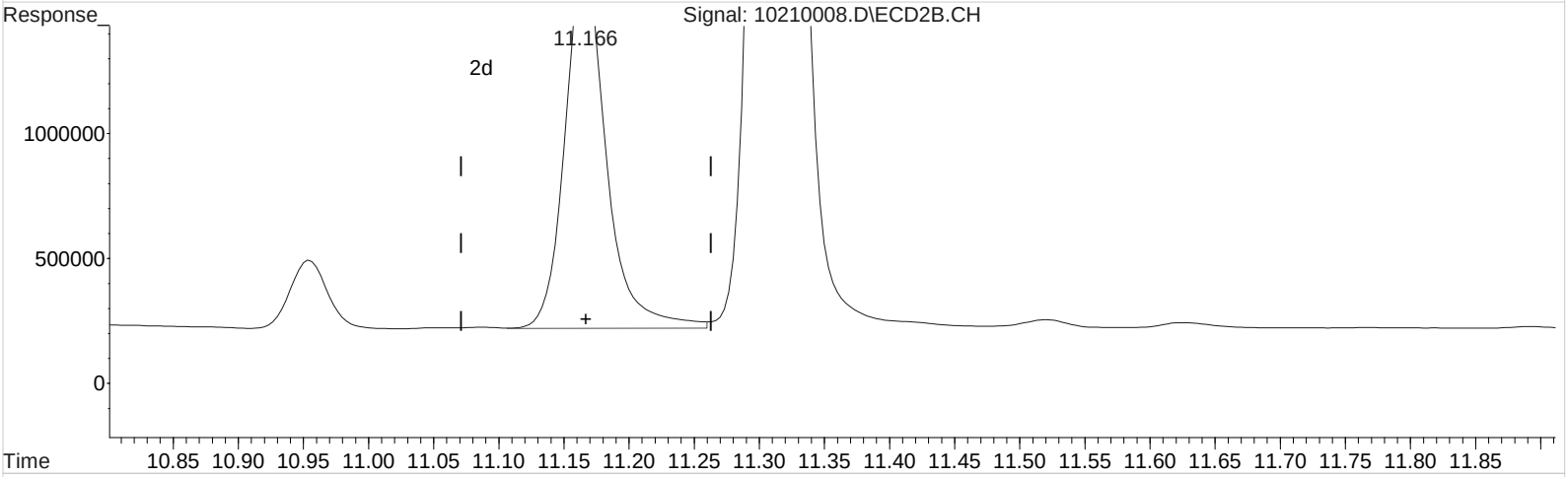
1st UA 10/21/20
2nd 10/22/20

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 17:22:59 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

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

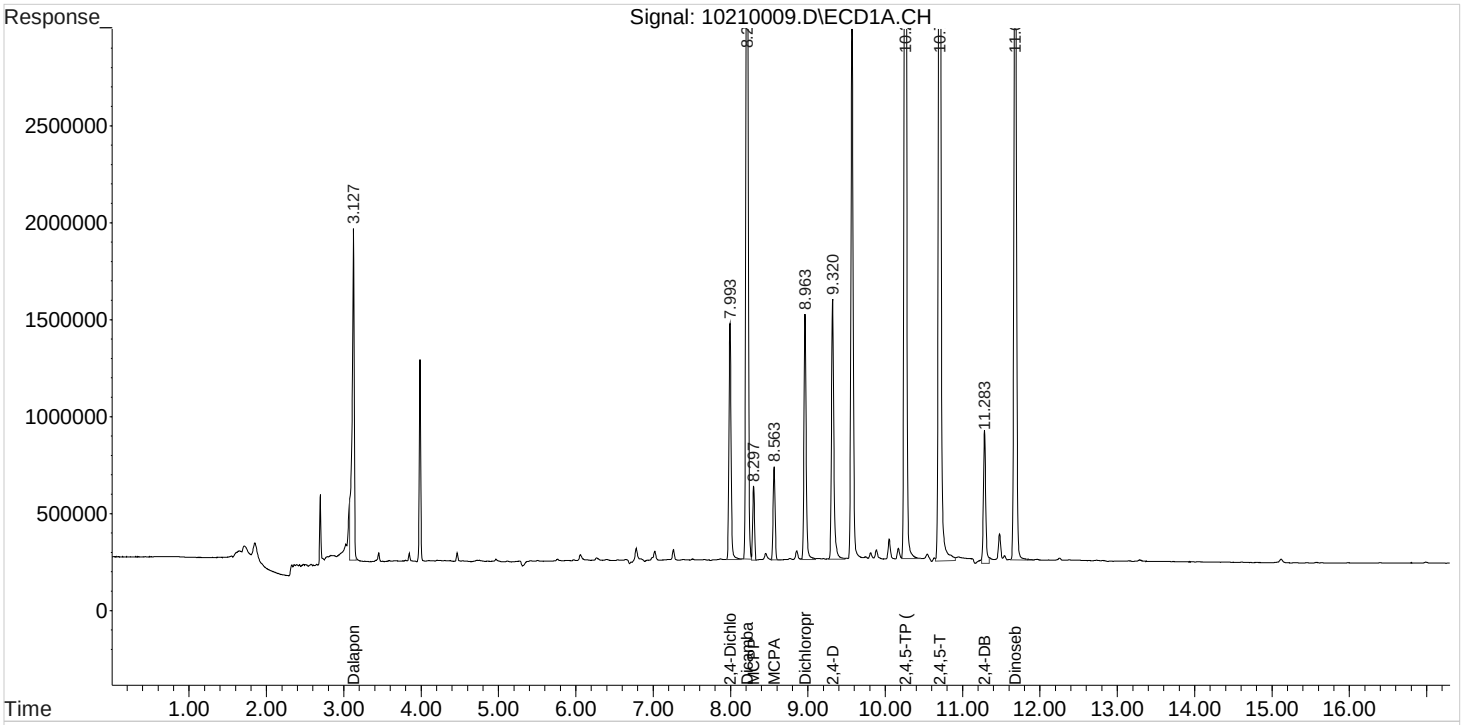
Quantitation Report (QT Reviewed)

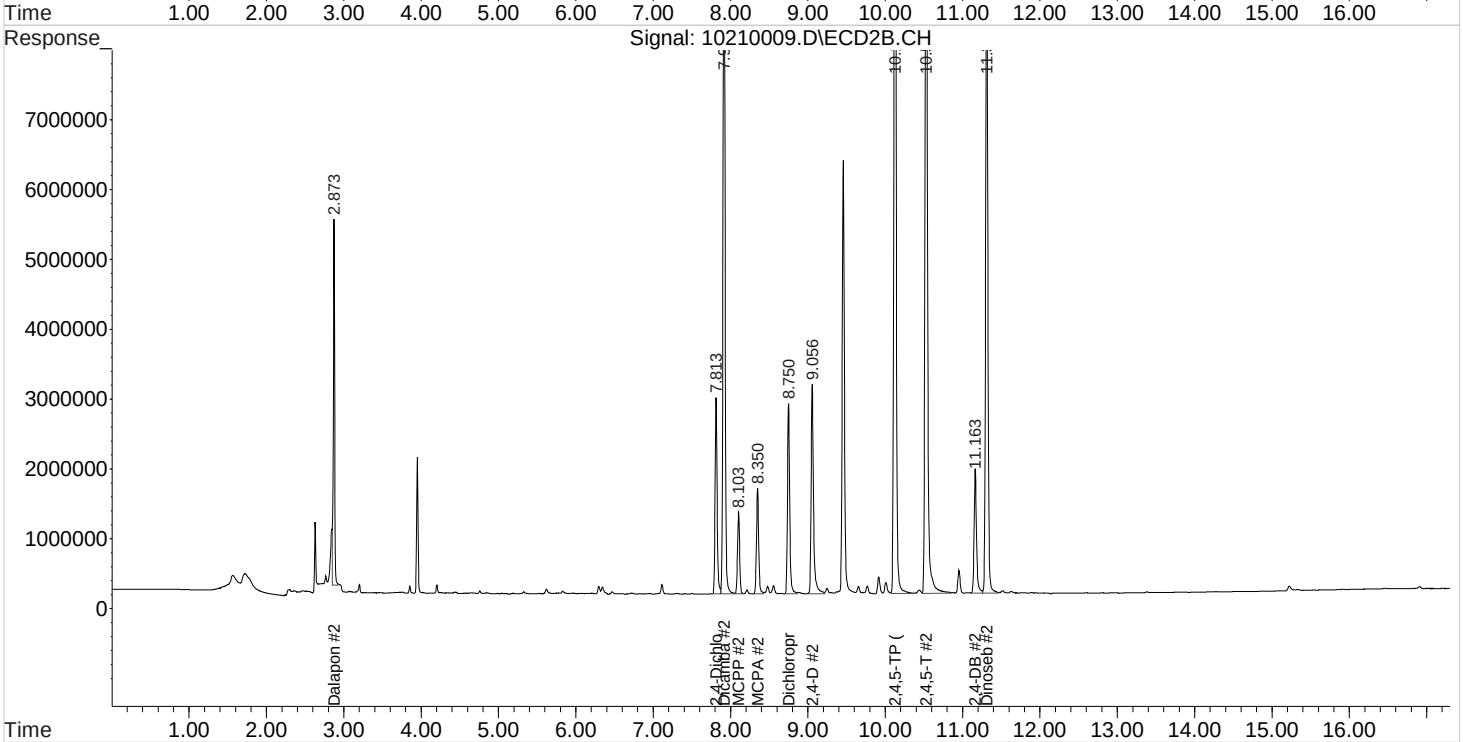
1st UA 10/21/20
2nd 10/22/20

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





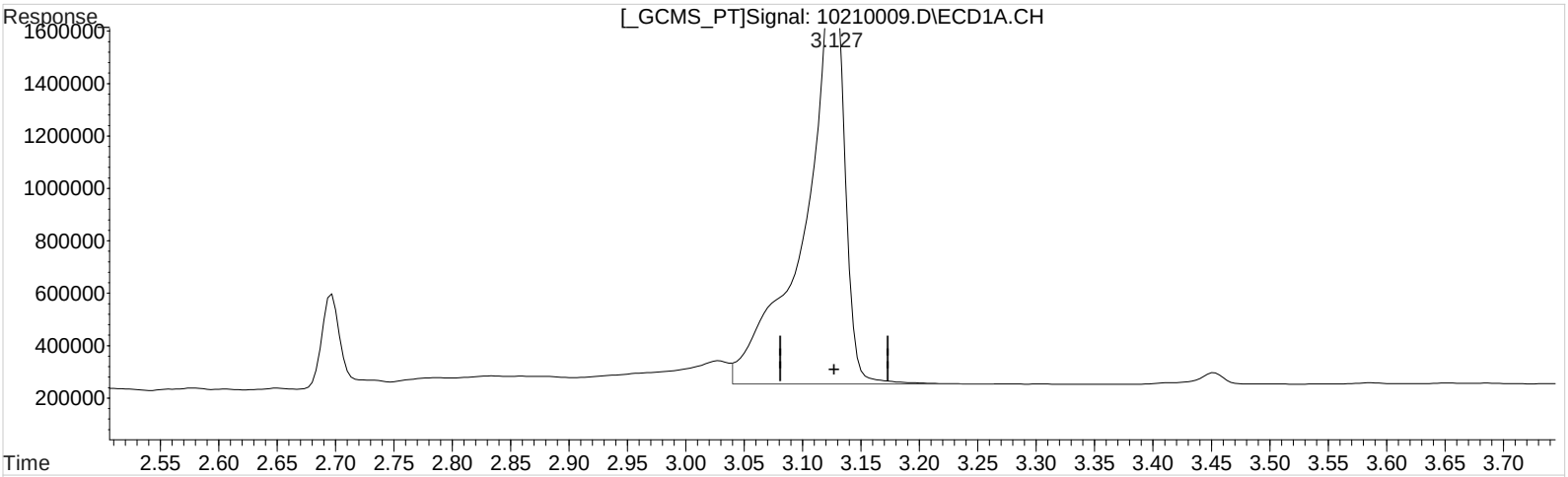
Quantitation Report (Qedit)

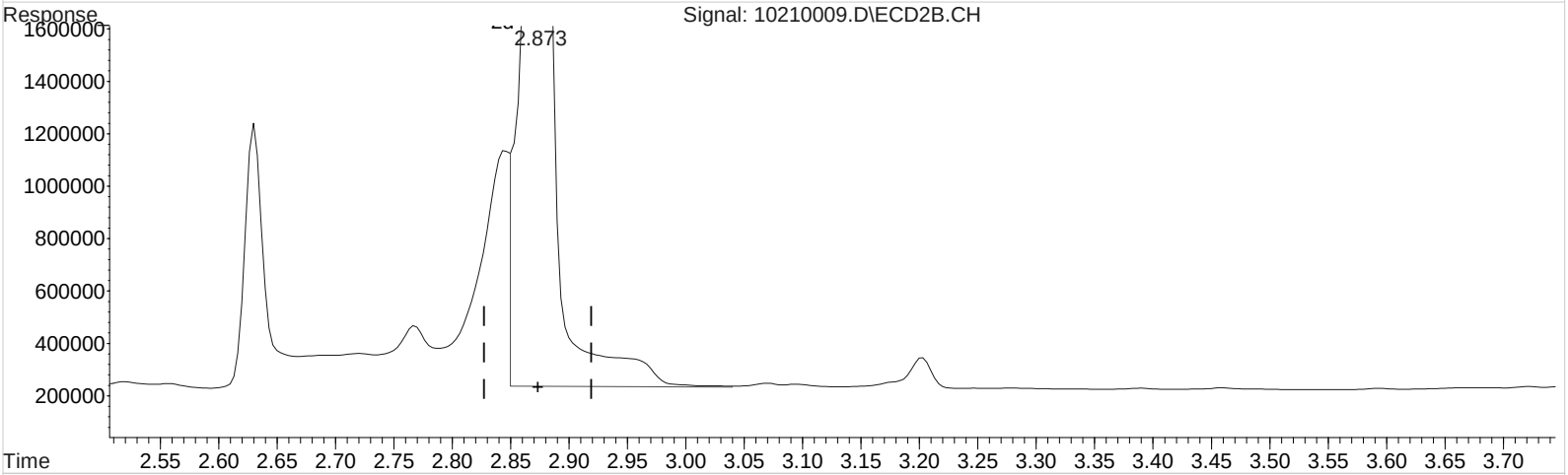
1st UA 10/21/20
2nd 10/22/20

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

(1) Dalapon #2 (m)

2.873min 151.774 ppb

response 7152678

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

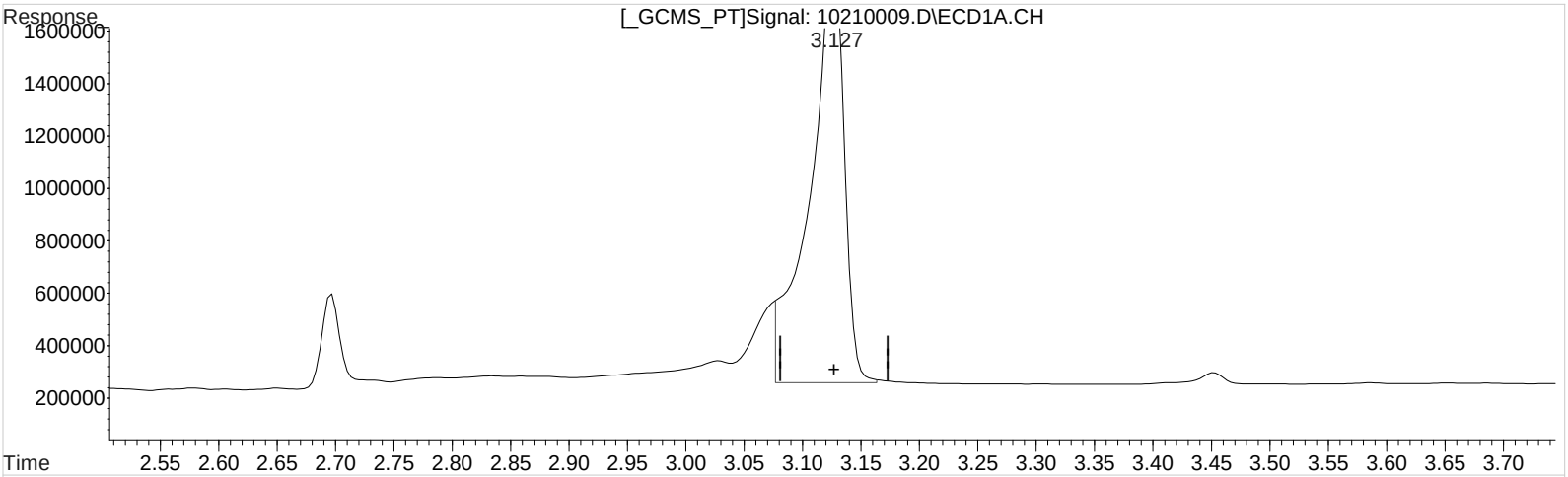
Quantitation Report (Qedit)

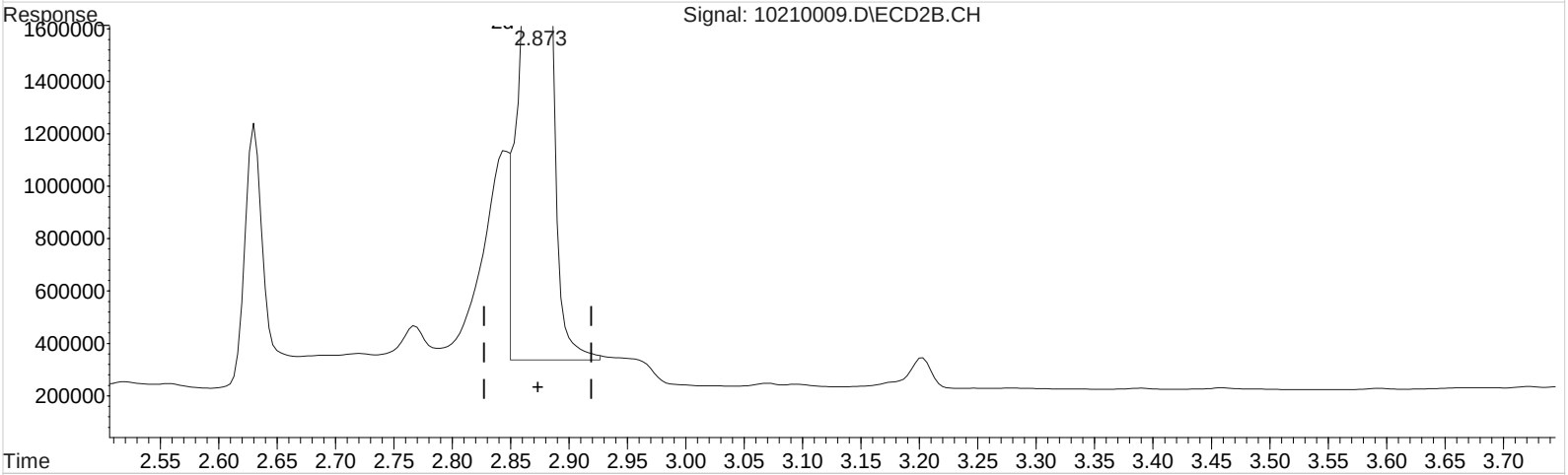
1st UA 10/21/20
2nd 10/22/20

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 139.287 ppb m

response 3258567

(1) Dalapon #2 (m)

2.873min 135.187 ppb m

response 6370947

Manual Integration:

After

Baseline/Shoulder

10/21/20

(+) = Expected Retention Time

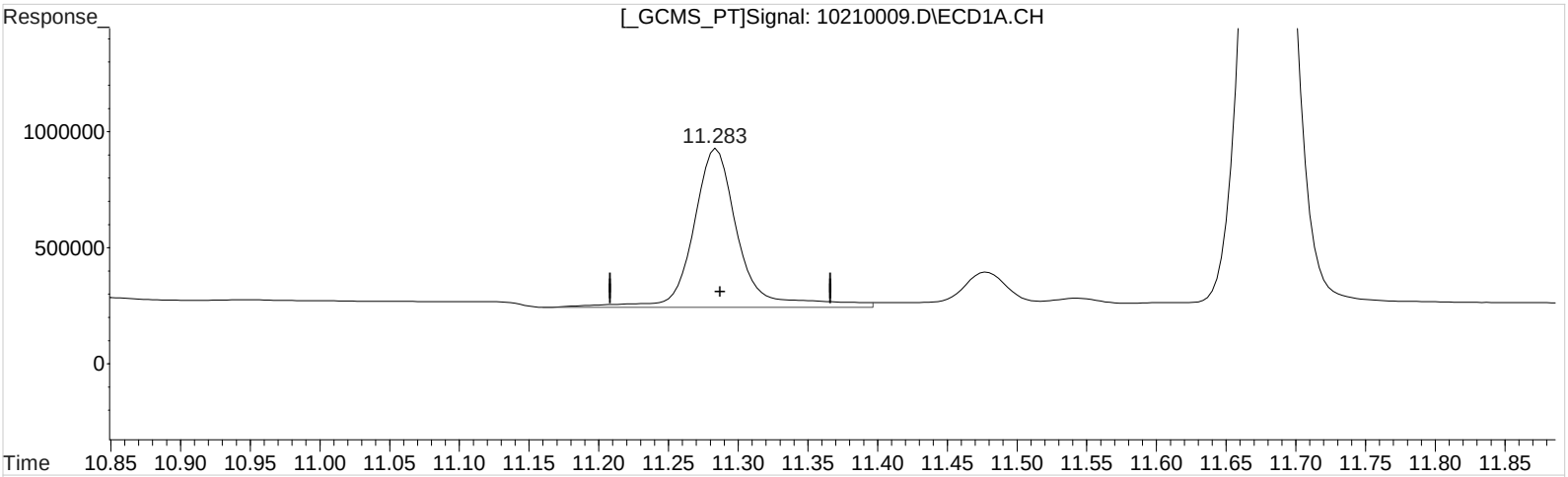
Quantitation Report (Qedit)

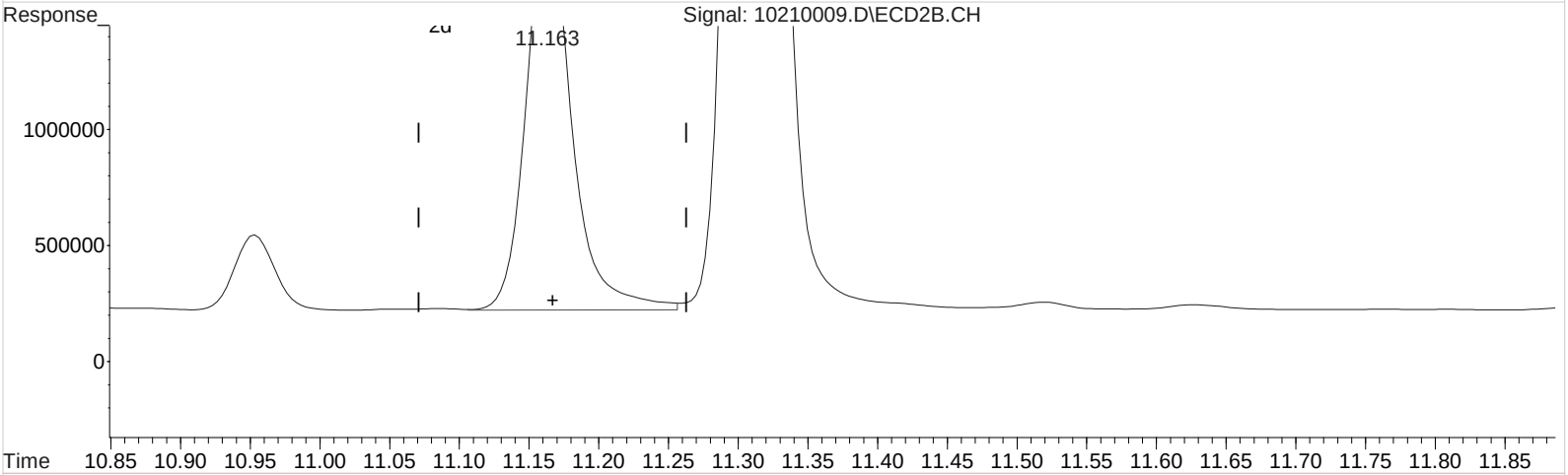
1st UA 10/21/20
2nd 10/22/20

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

(10) 2,4-DB #2 (m)

11.163min 142.303 ppb

response 3879490

Manual Integration:

Before

10/21/20

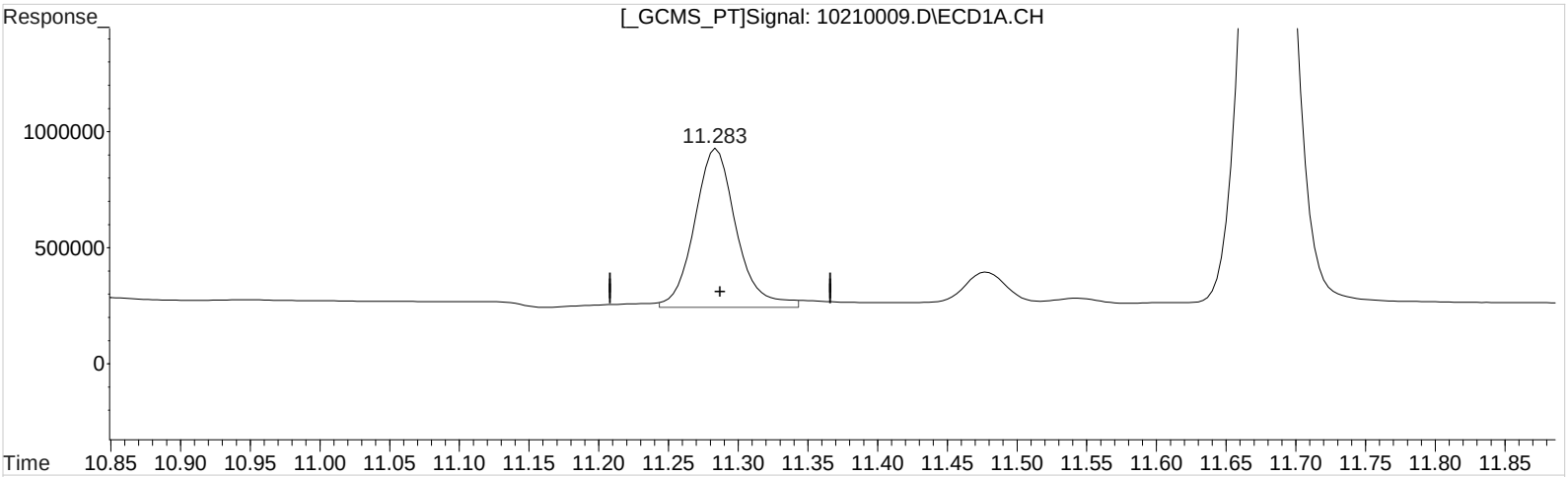
(+) = Expected Retention Time

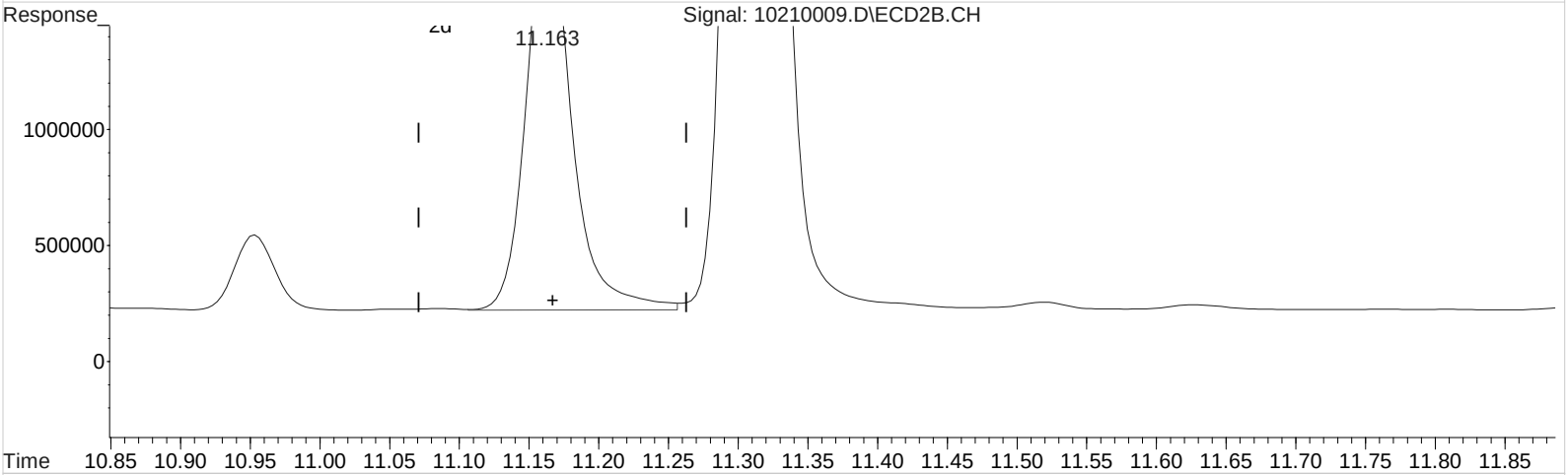
1st UA 10/21/20
2nd 10/22/20

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

Manual Integration:

After

Baseline/Shoulder

10/21/20

(10) 2,4-DB #2 (m)

11.163min 142.303 ppb

response 3879490

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

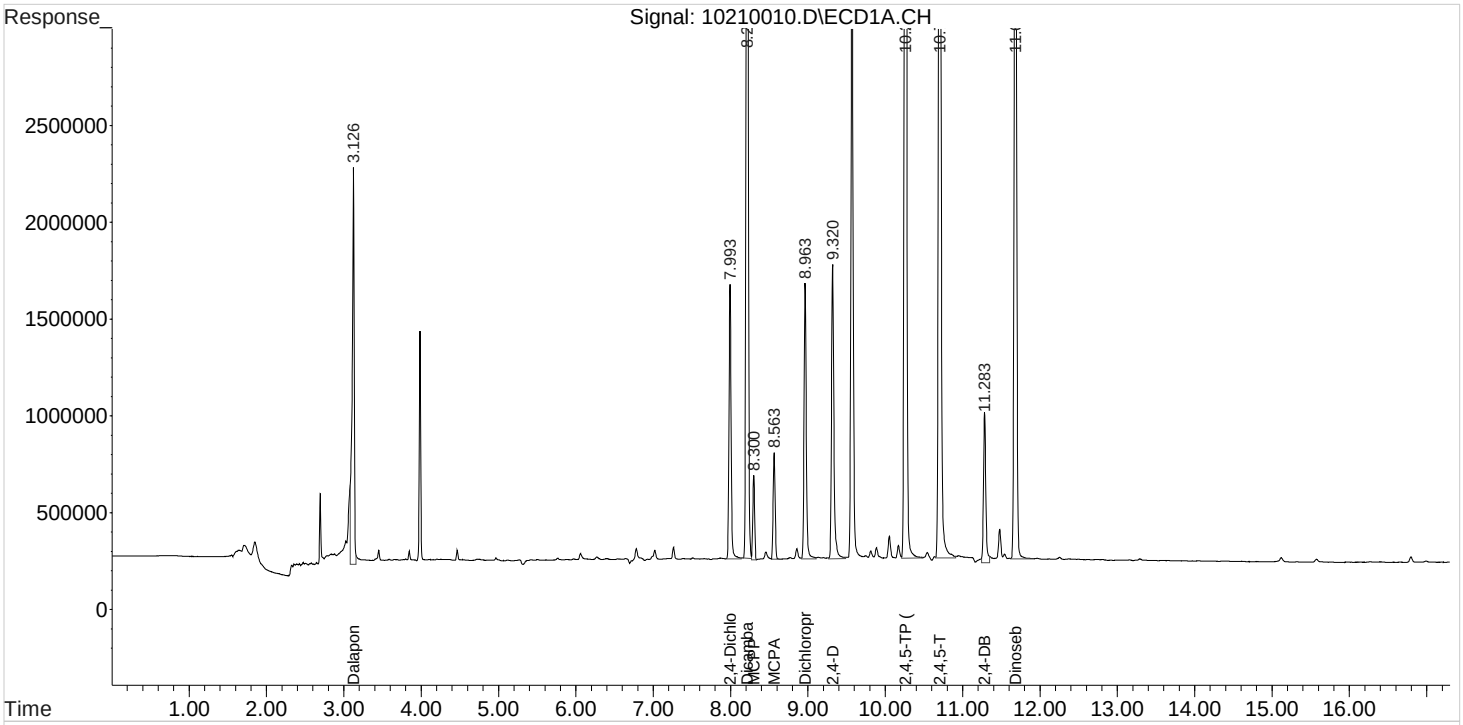
Quantitation Report (QT Reviewed)

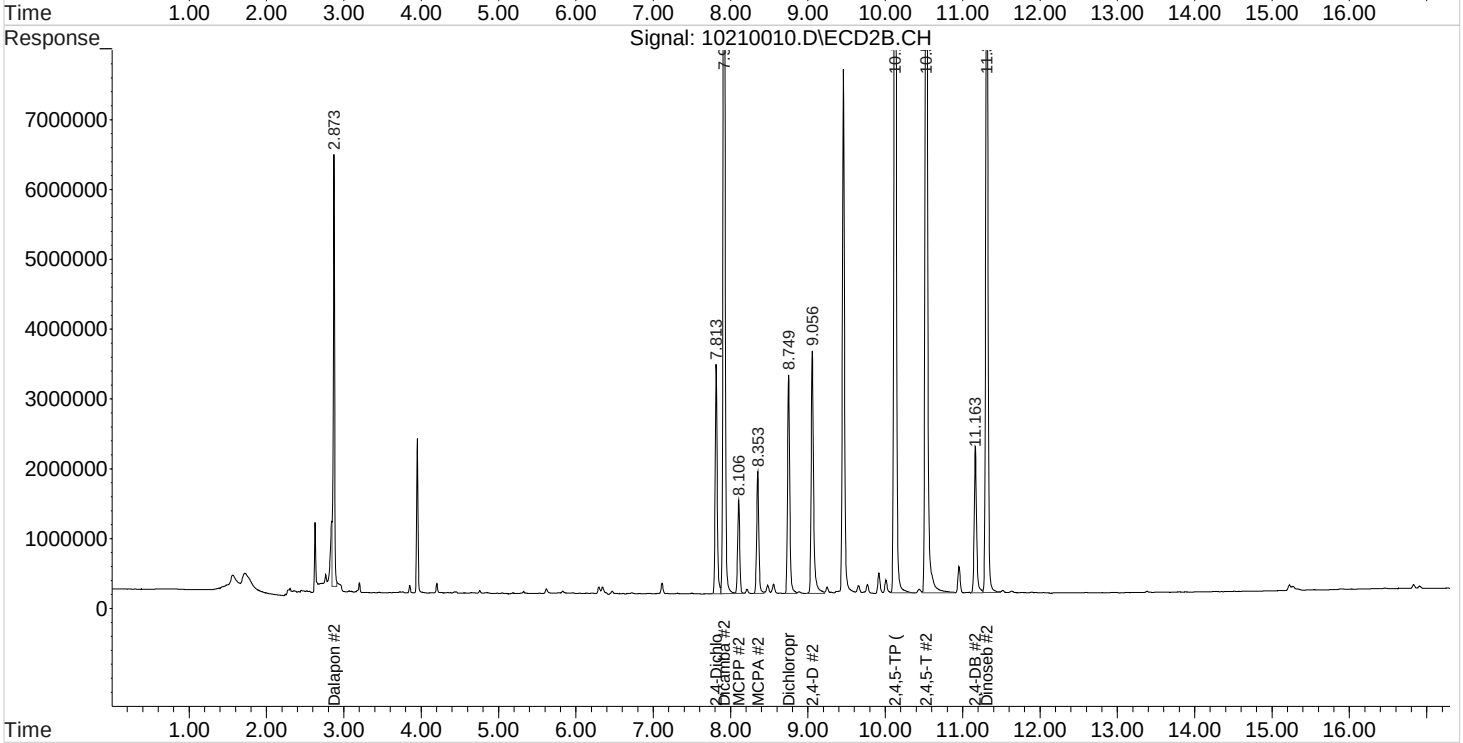
1st UA 10/21/20
2nd 10/22/20

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





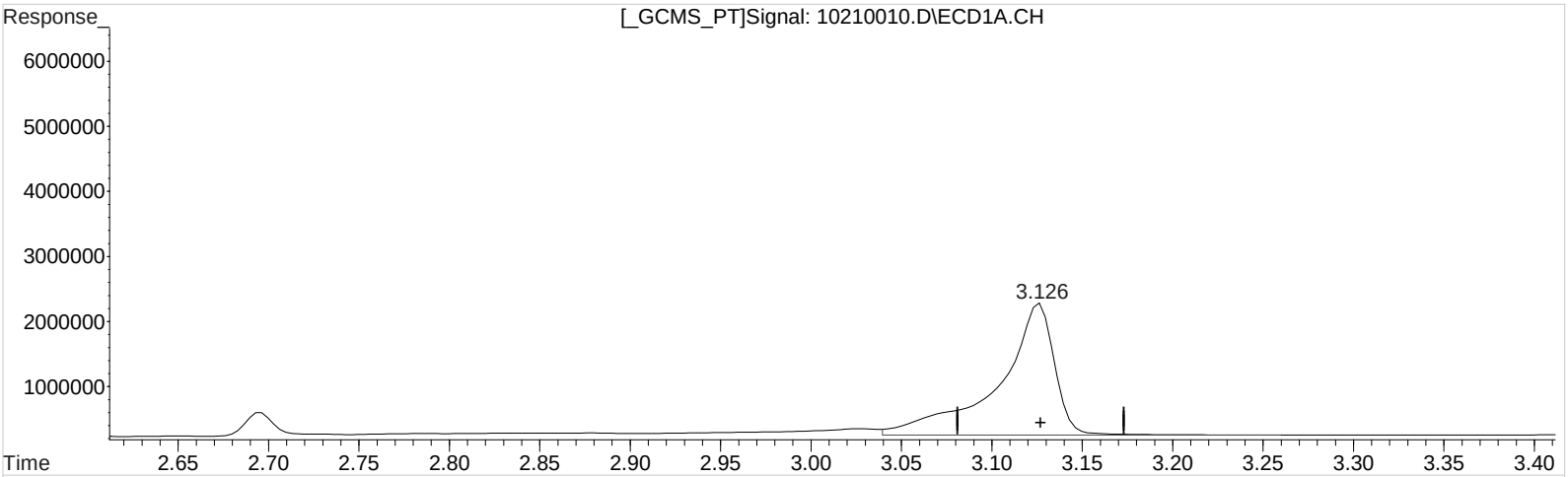
Quantitation Report (Qedit)

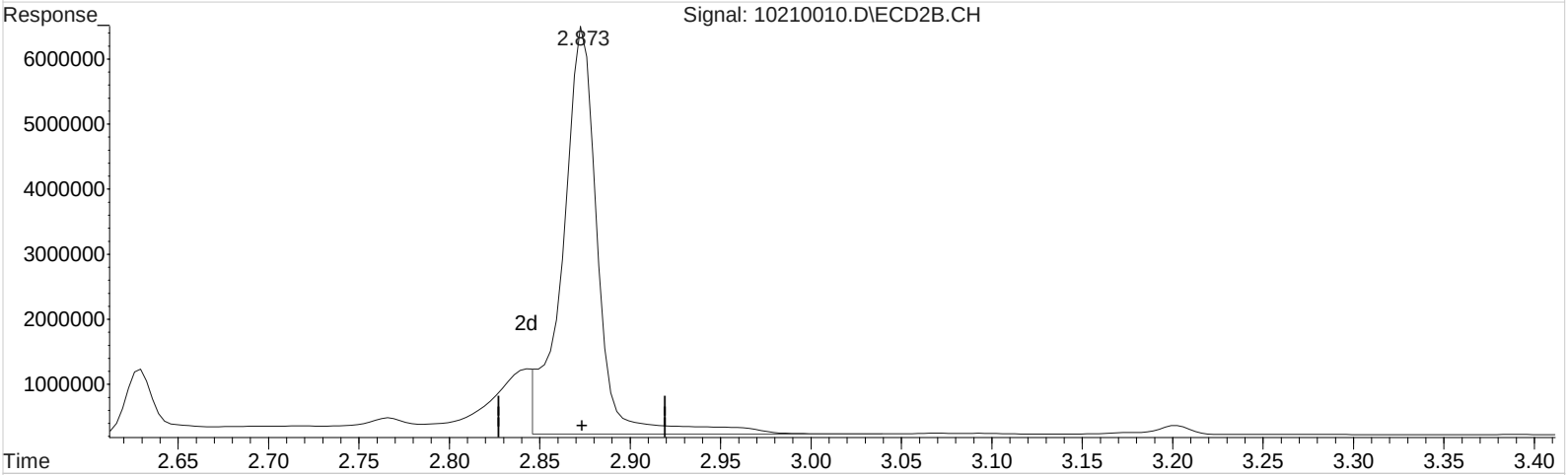
1st UA 10/21/20
2nd 10/22/20

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 17:19:31 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





QEdit

(1) Dalapon (m)

3.126min 186.524 ppb

response 4347148

(1) Dalapon #2 (m)

2.873min 178.616 ppb

response 8363091

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

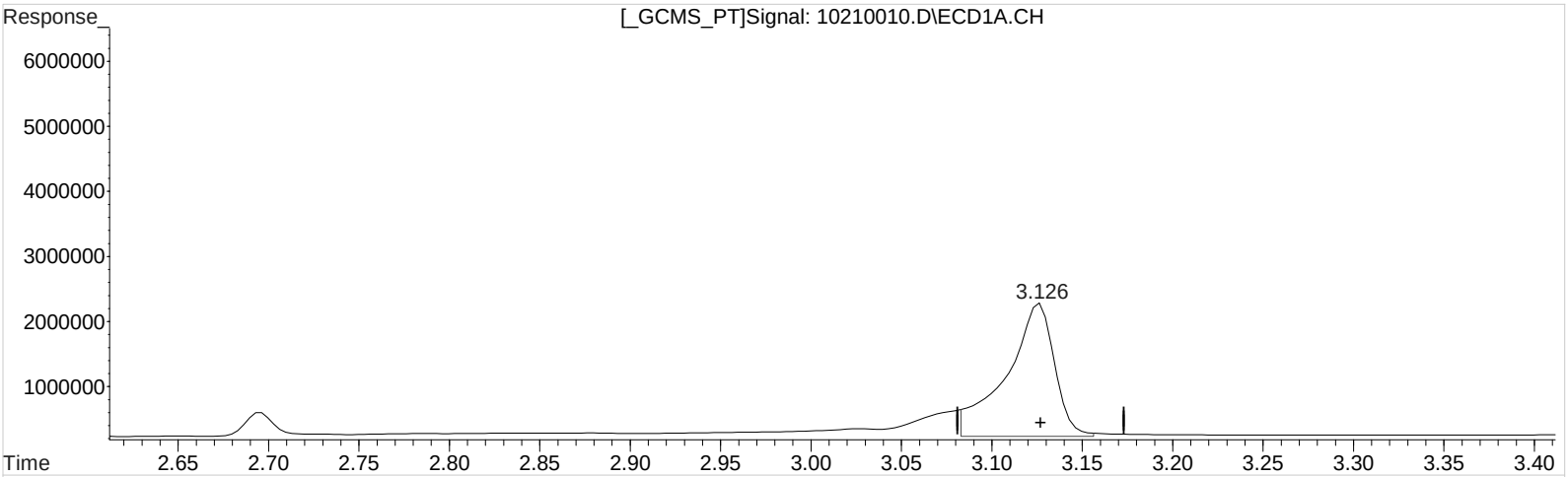
Quantitation Report (Qedit)

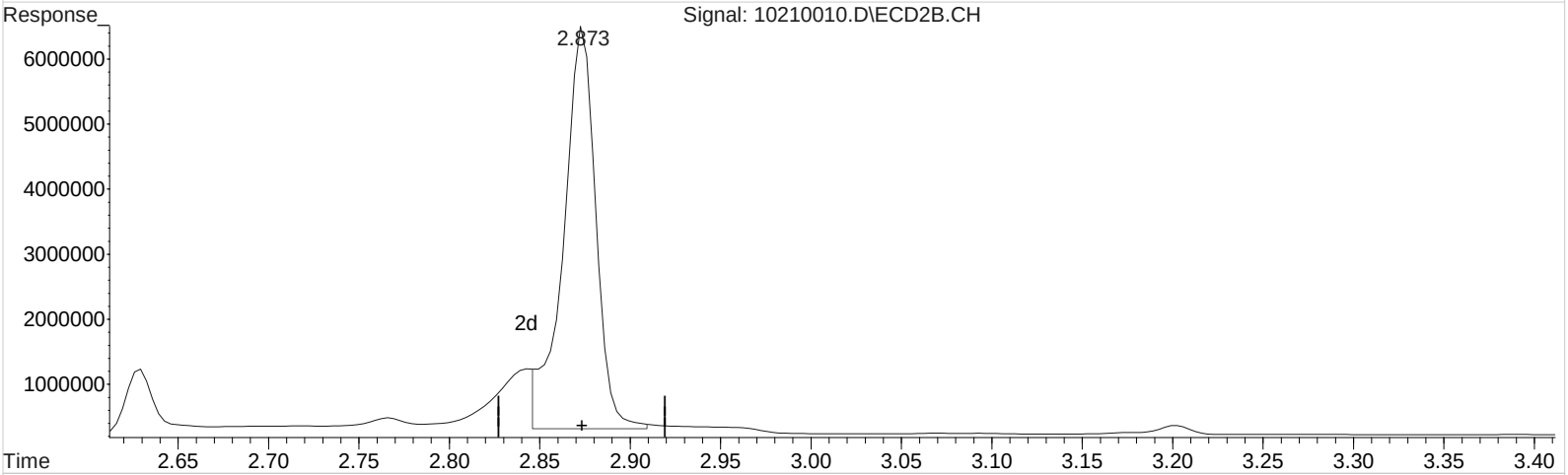
1st UA 10/21/20
2nd 10/22/20

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 17:19:31 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





QEdit

(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

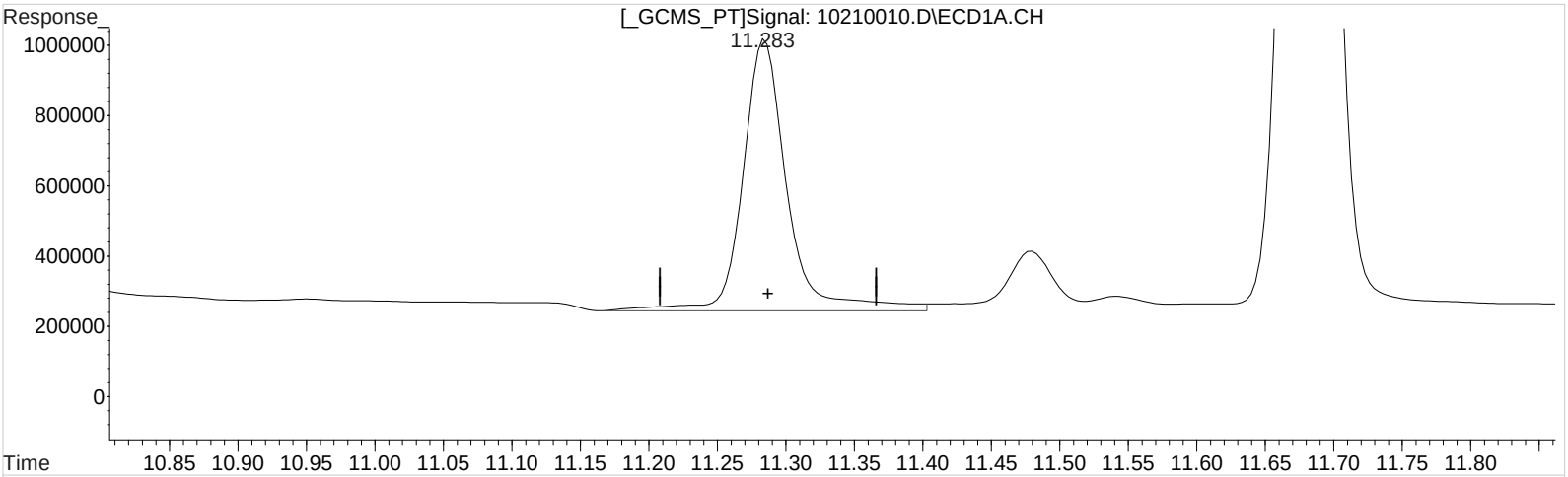
Quantitation Report (Qedit)

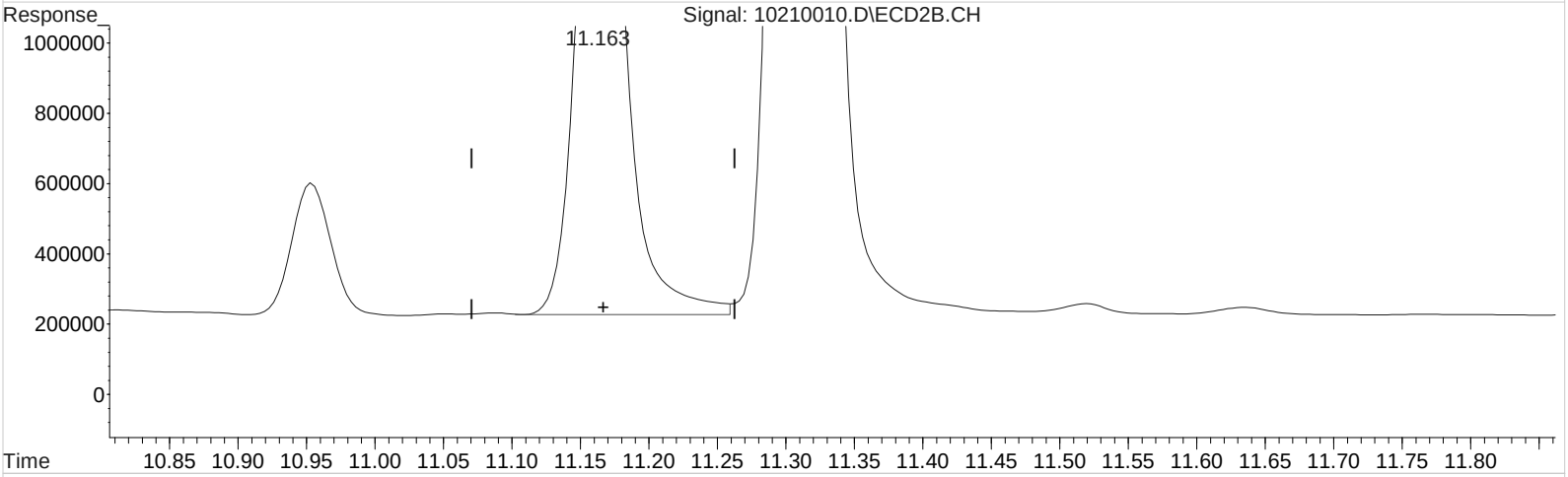
1st UA 10/21/20
2nd 10/22/20

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 17:19:31 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





QEdit

(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

(+) = Expected Retention Time

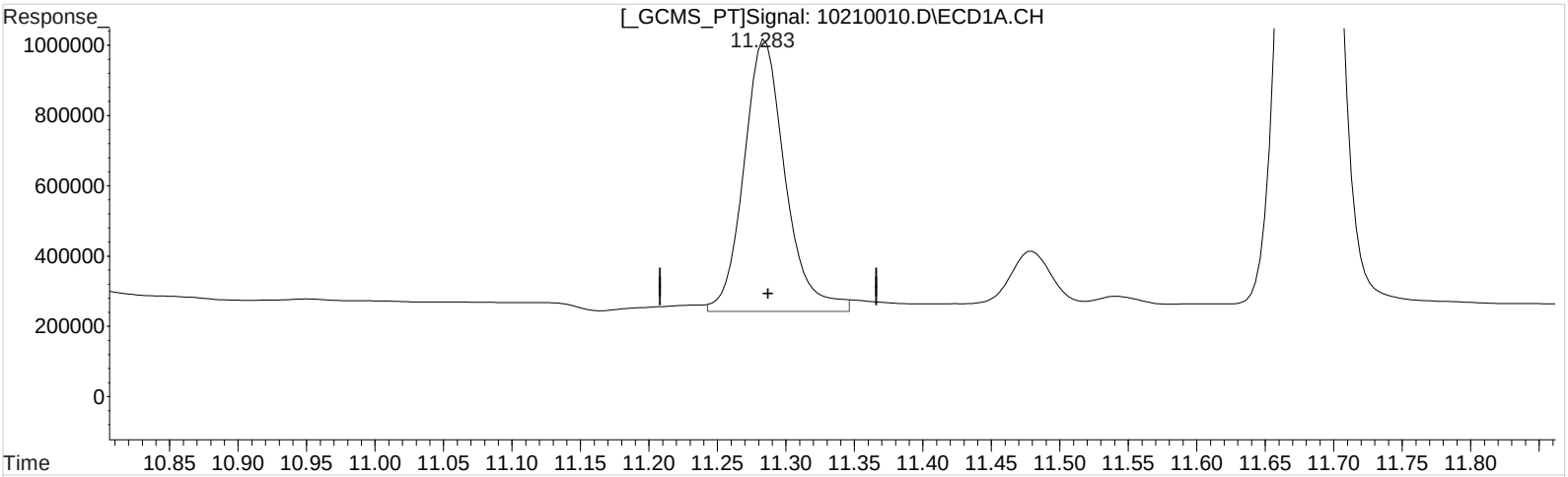
Quantitation Report (Qedit)

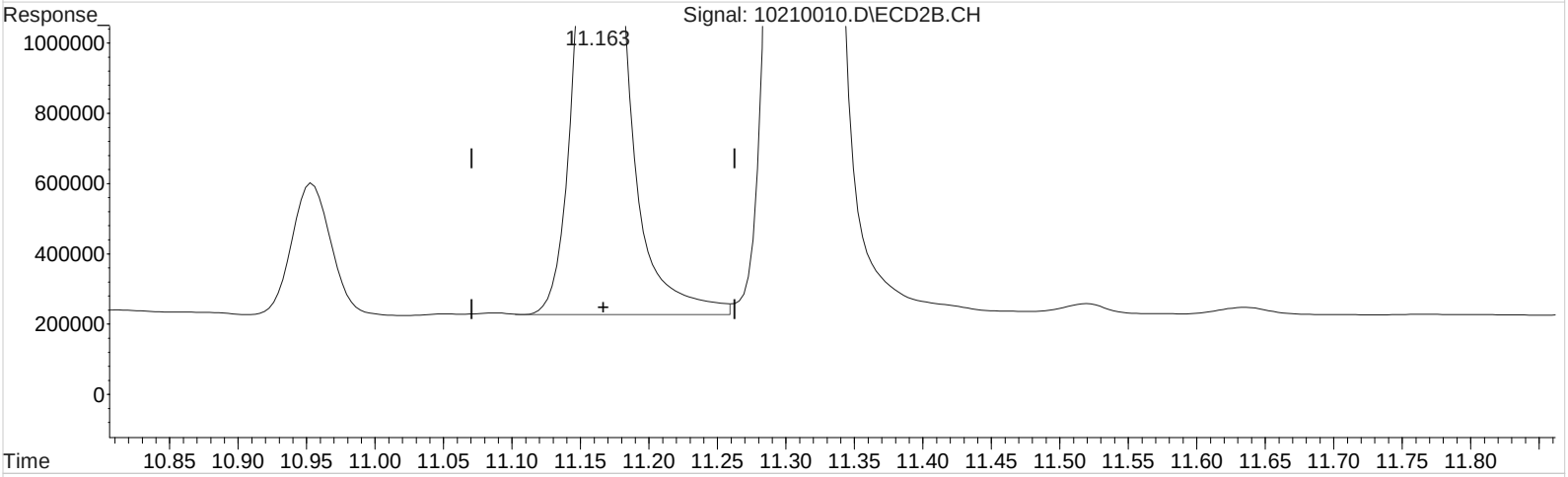
1st UA 10/21/20
2nd 10/22/20

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 17:19:31 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





QEdit

(10) 2,4-DB (m)

11.283min 168.722 ppb m

response 1631284

Manual Integration:

After

Baseline/Shoulder

10/21/20

(10) 2,4-DB #2 (m)

11.163min 163.801 ppb

response 4482448

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

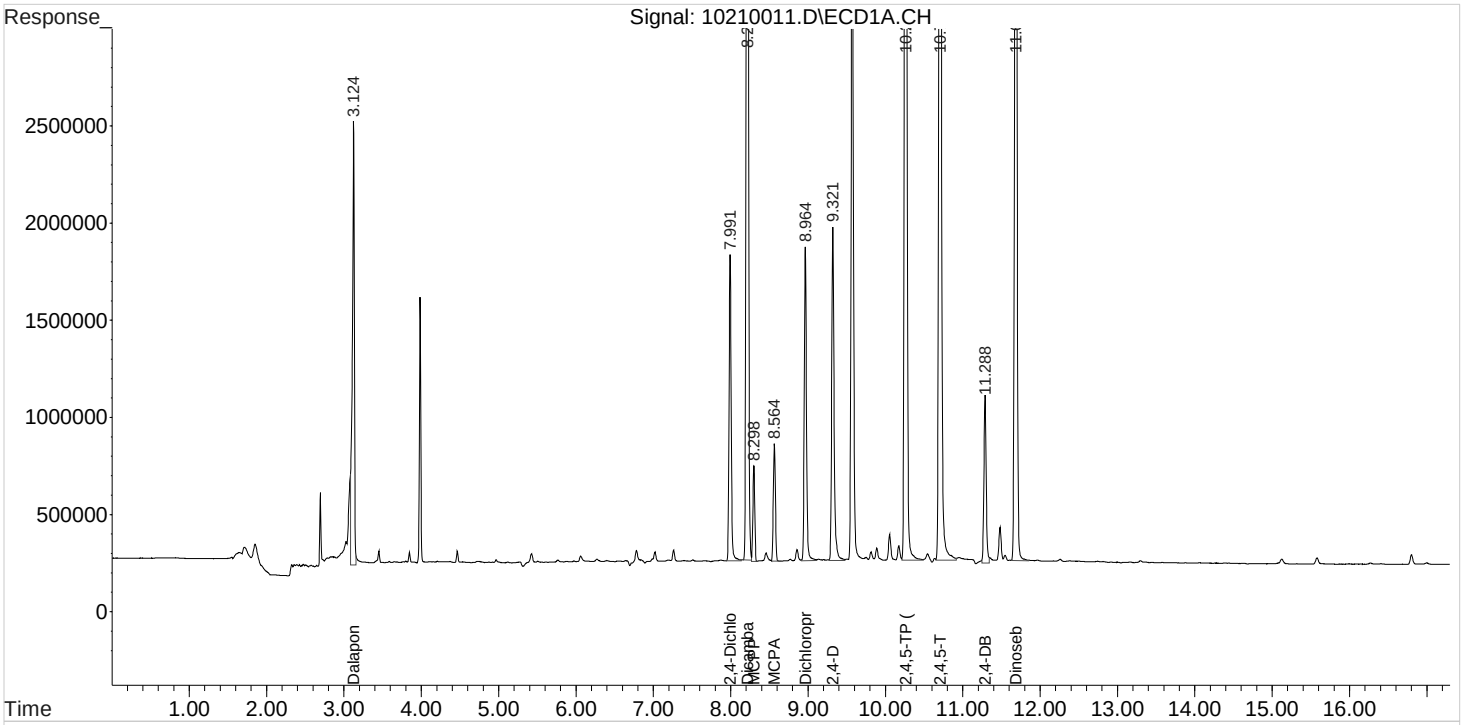
Quantitation Report (QT Reviewed)

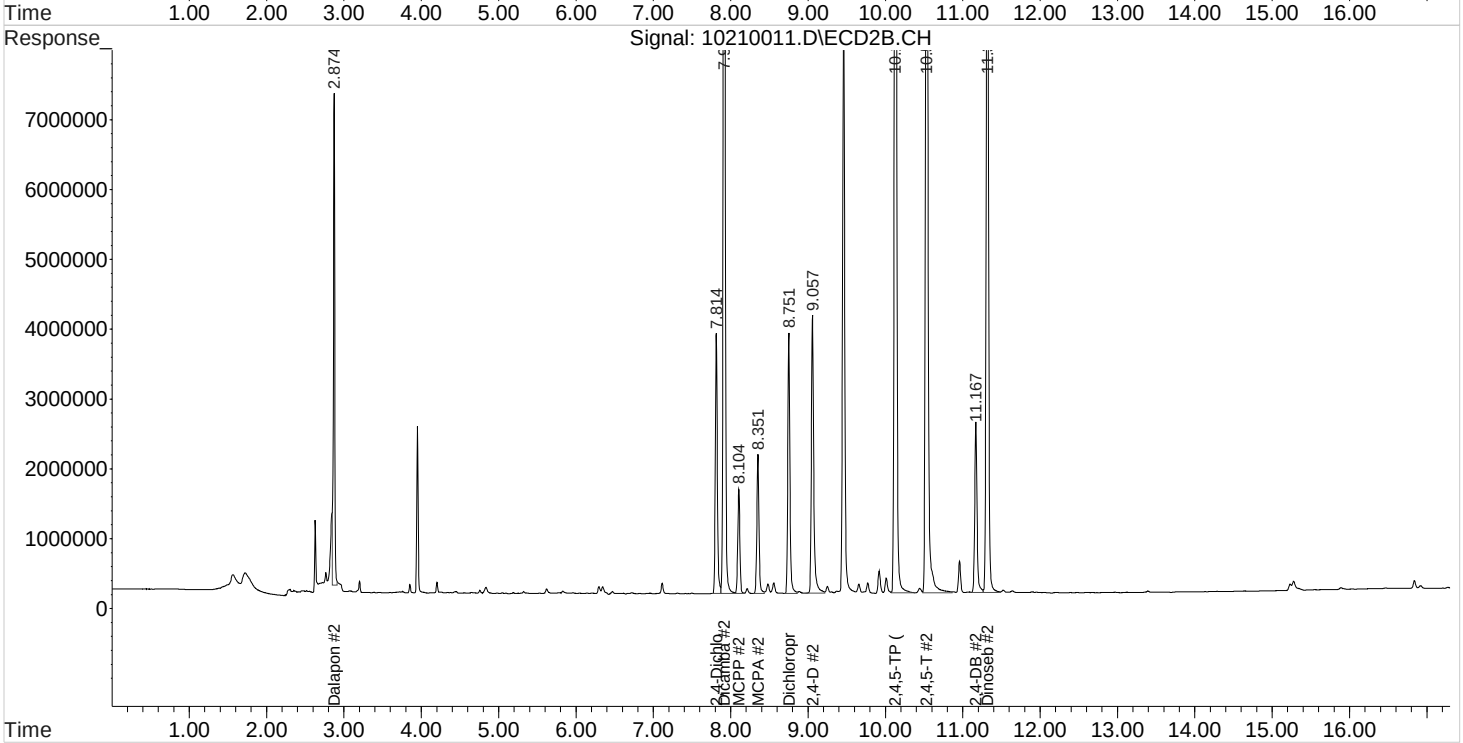
1st UA 10/21/20
2nd 10/22/20

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





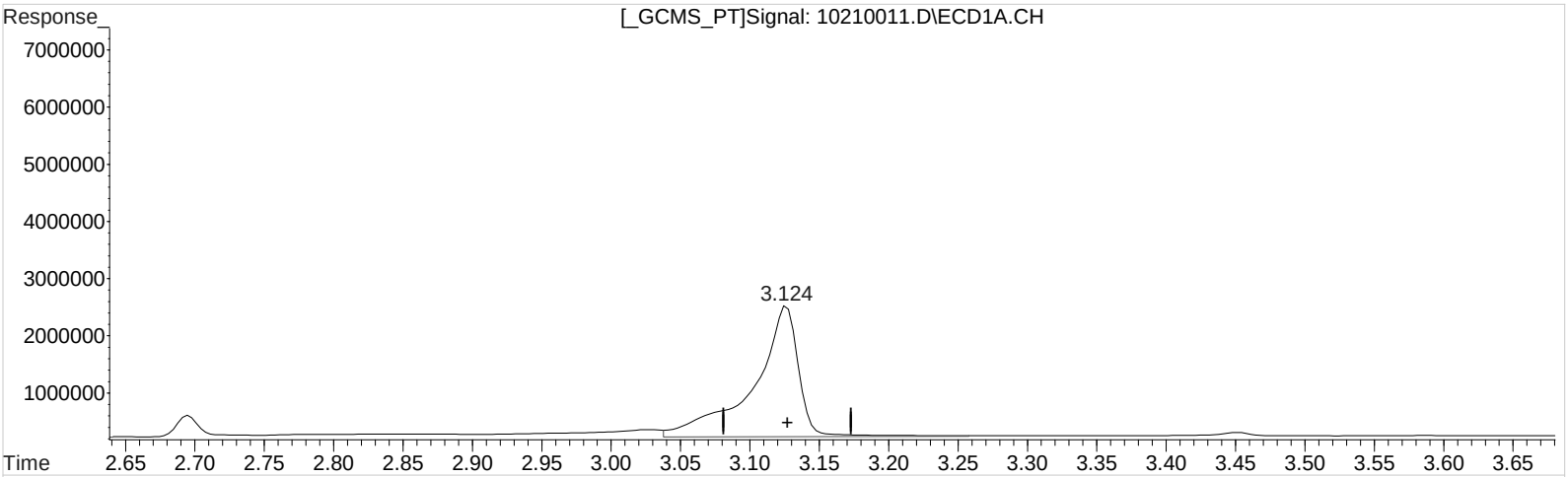
Quantitation Report (Qedit)

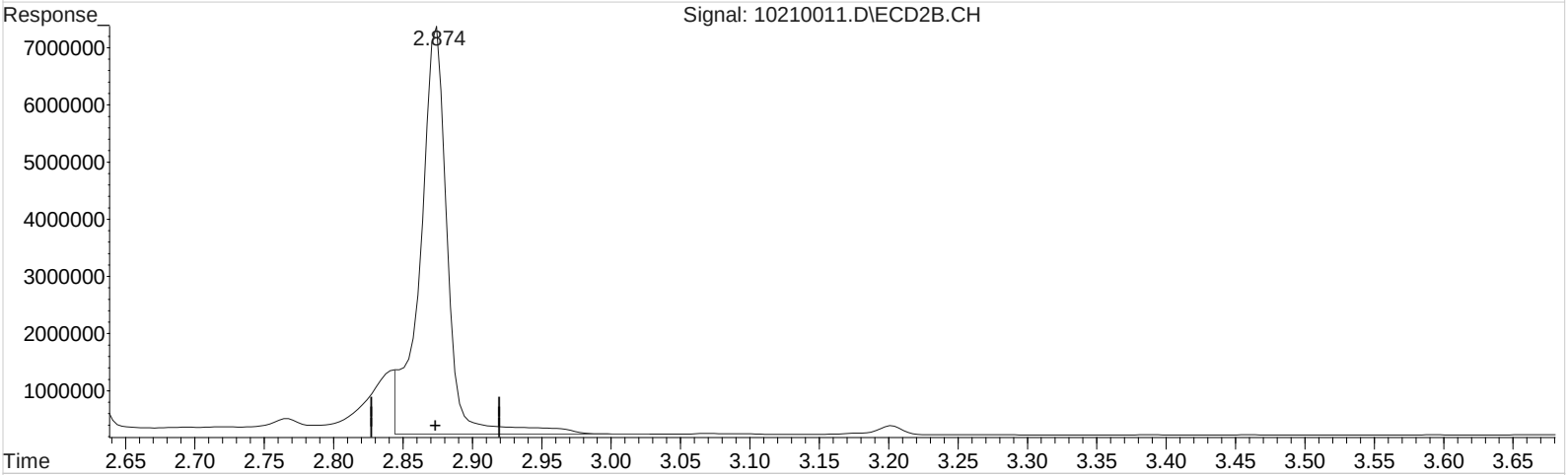
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.124min 217.220 ppb

response 5156366

(1) Dalapon #2 (m)

2.874min 208.116 ppb

response 9638480

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

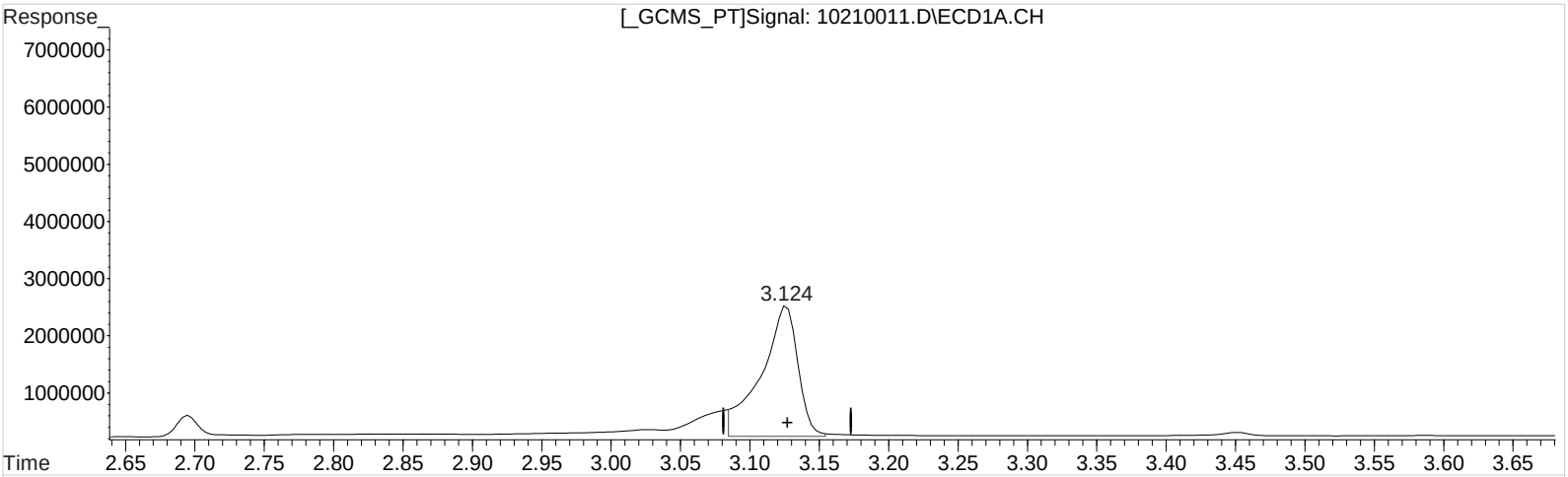
Quantitation Report (Qedit)

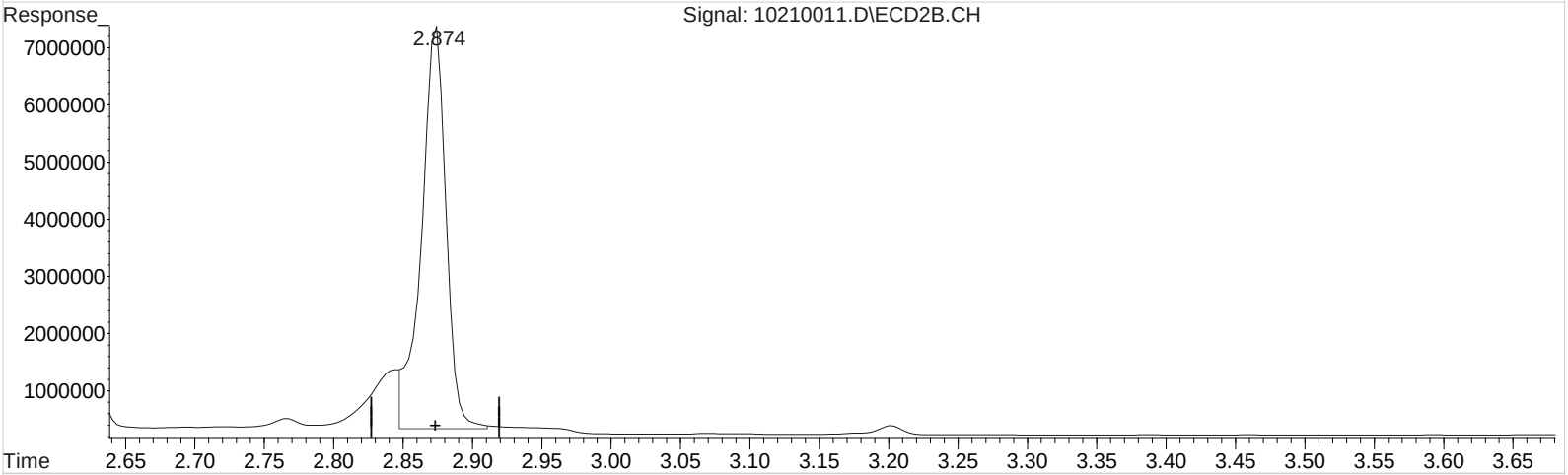
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

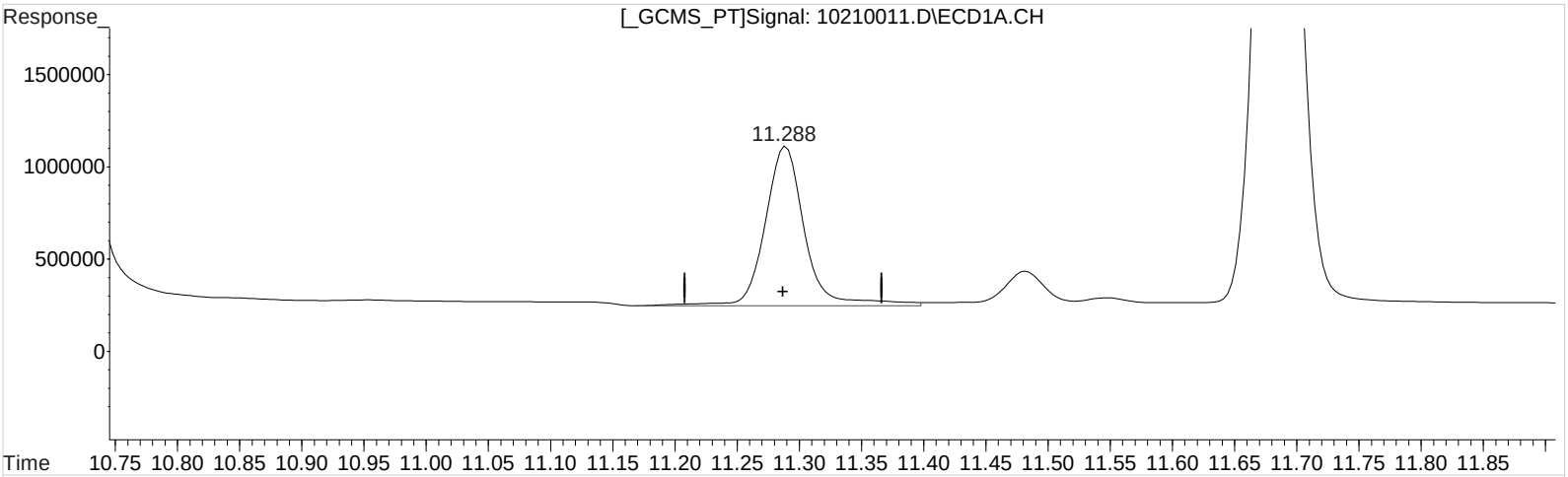
Quantitation Report (Qedit)

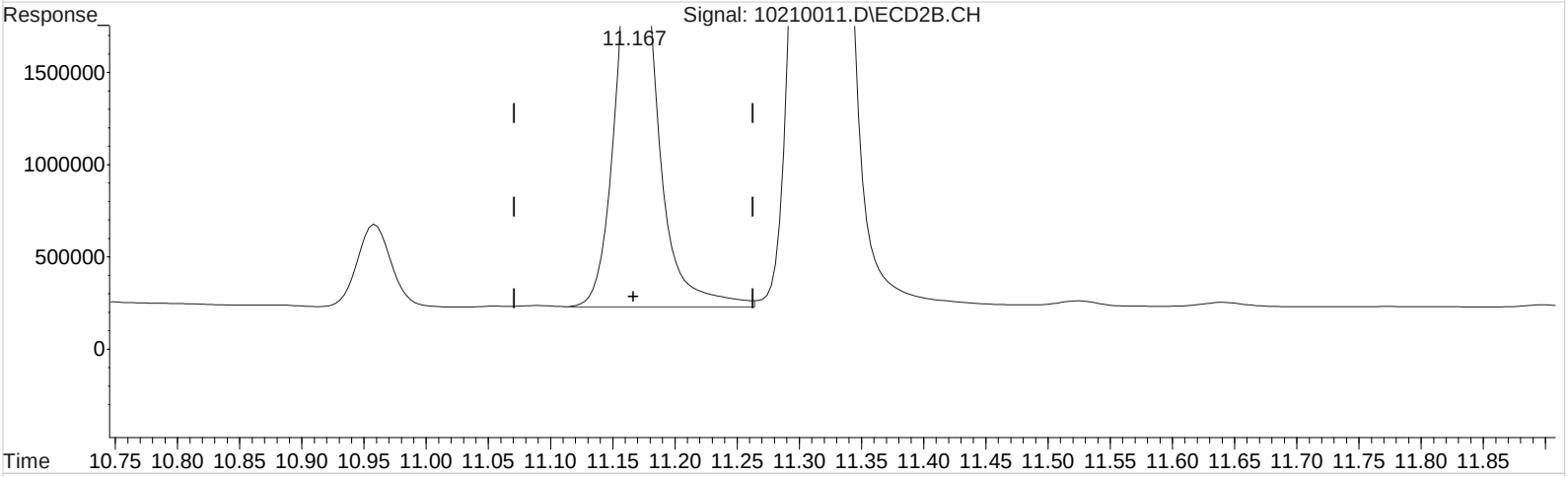
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(10) 2,4-DB (m)

11.288min 194.607 ppb

response 1934084

(10) 2,4-DB #2 (m)

11.167min 186.595 ppb

response 5143484

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

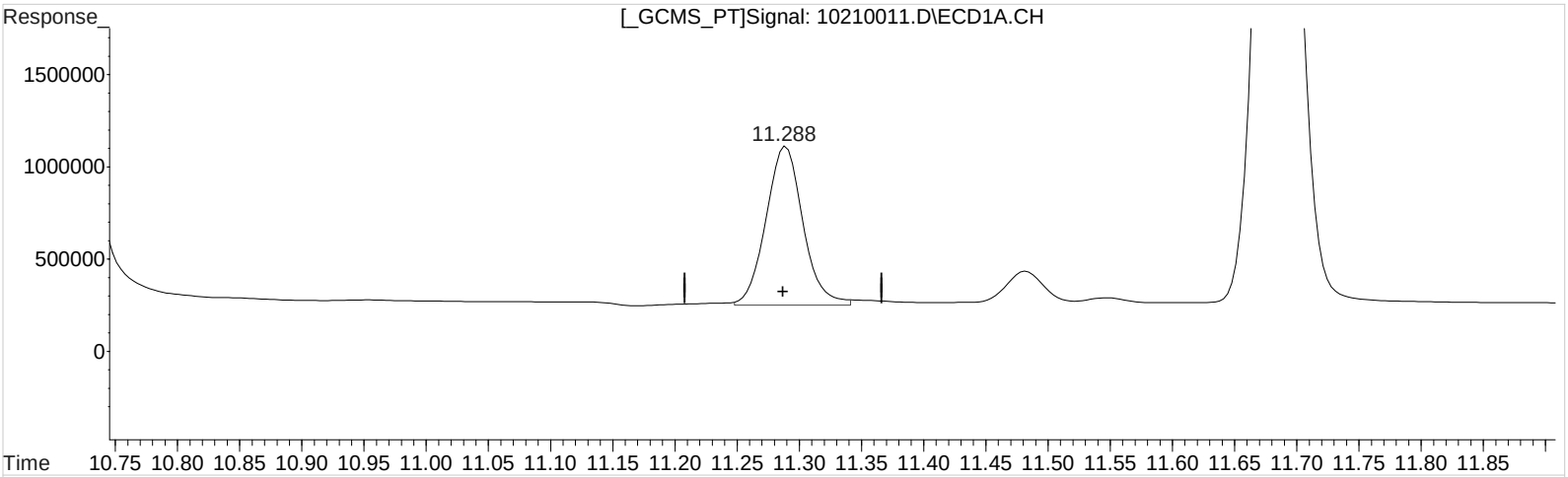
Quantitation Report (Qedit)

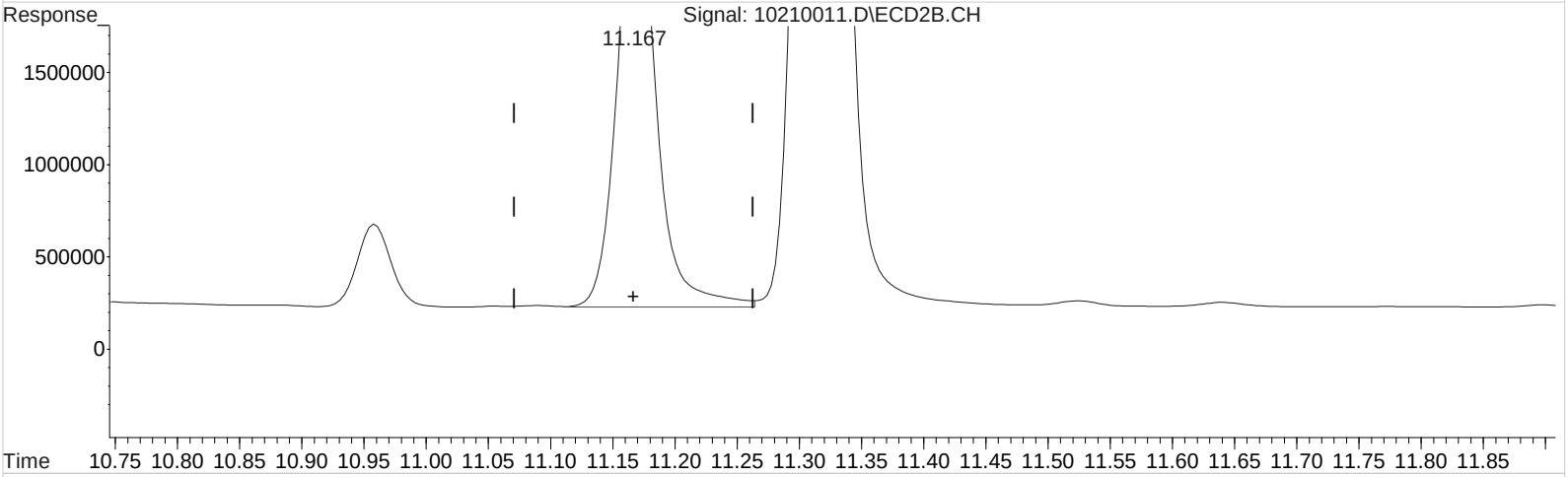
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

1st UA 10/21/20
2nd 10/22/20

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.

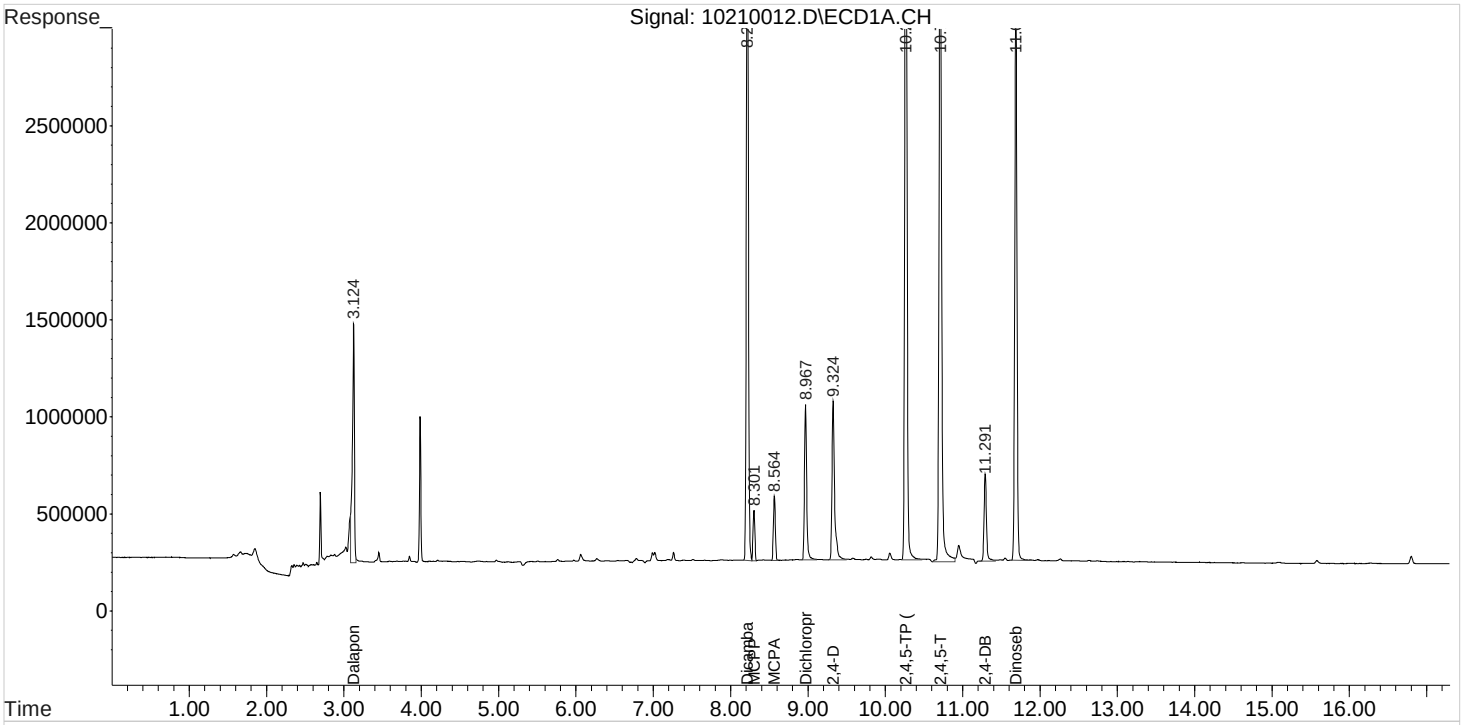
Quantitation Report (QT Reviewed)

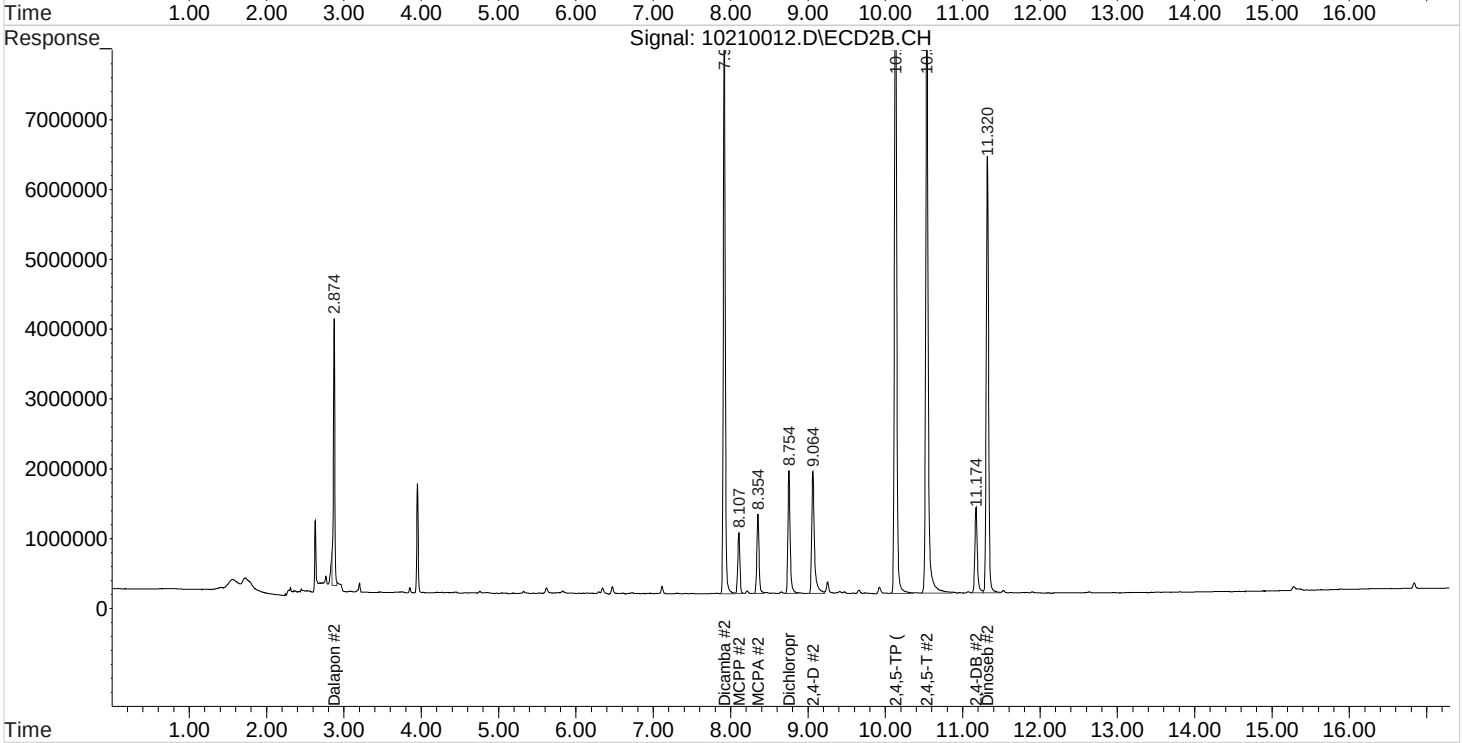
1st UA 10/21/20
2nd 10/22/20

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





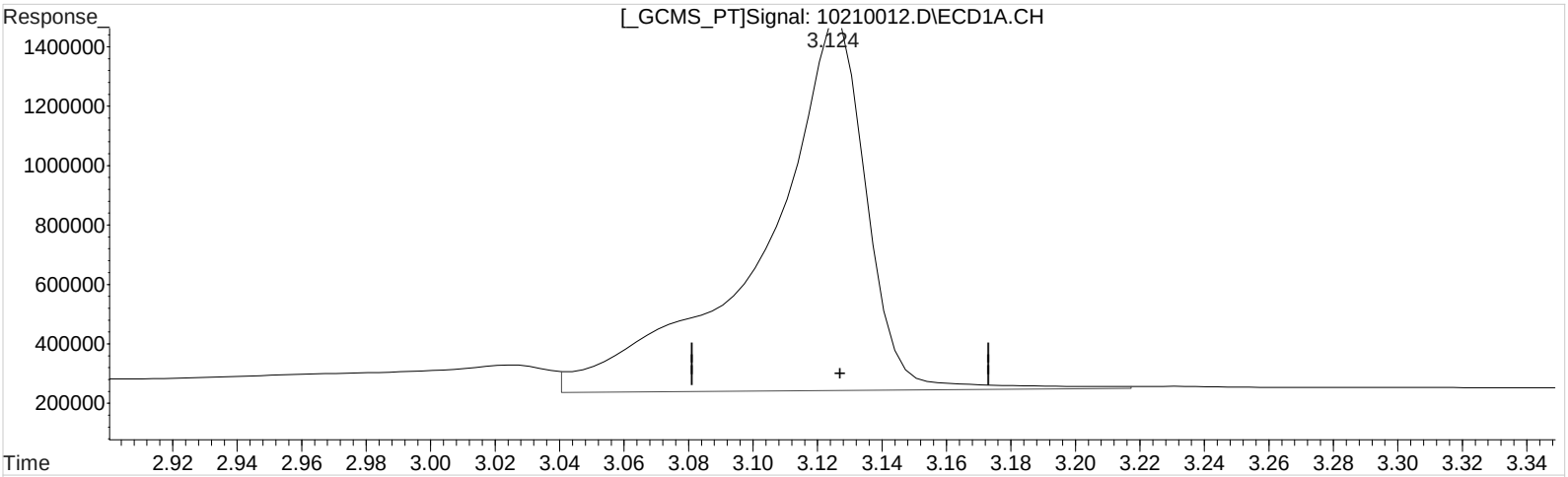
Quantitation Report (Qedit)

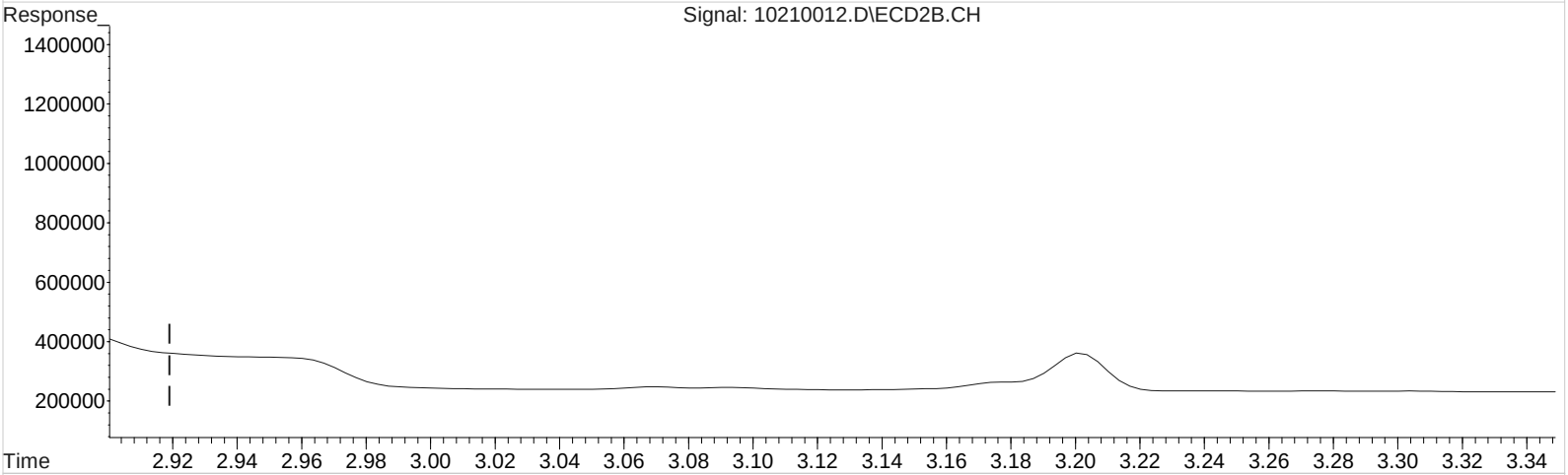
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.124min 114.147 ppb

response 2769027

(1) Dalapon #2 (m)

2.874min 131.747 ppb

response 6365052

Manual Integration:

Before

10/21/20

(+) = Expected Retention Time

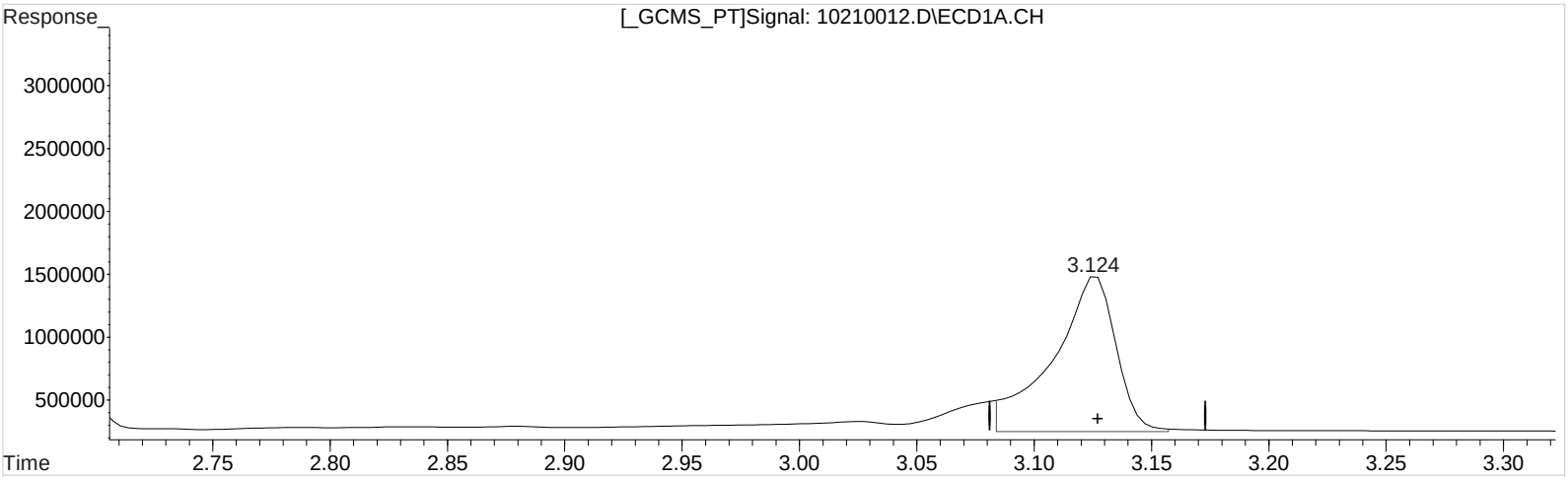
Quantitation Report (Qedit)

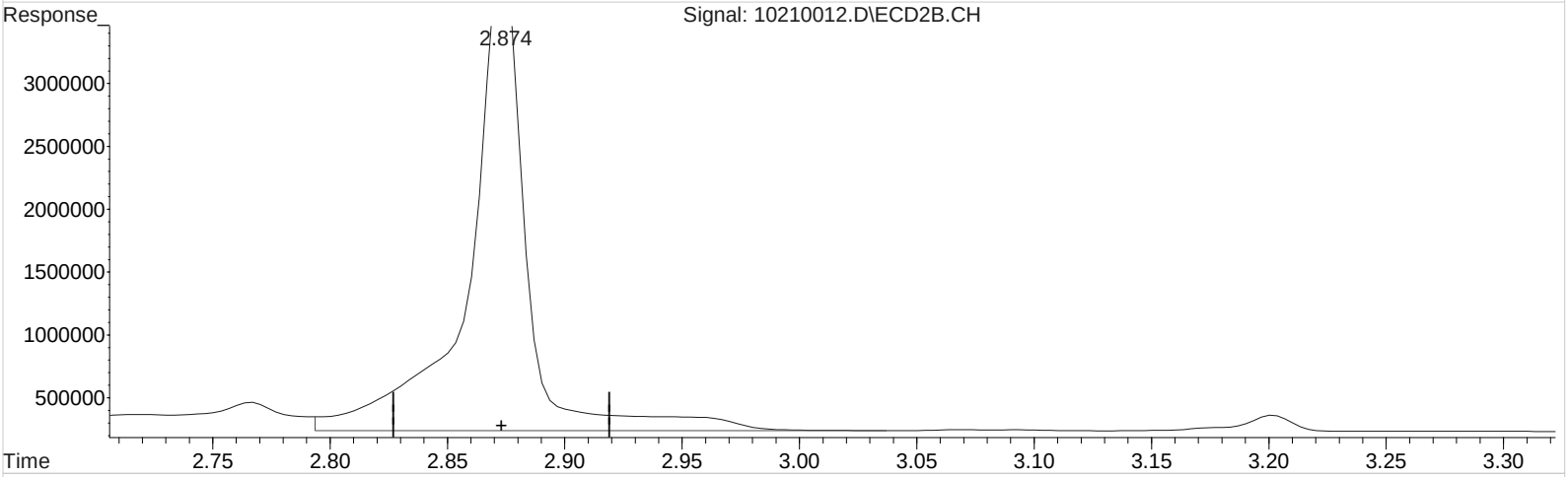
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(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

(+) = Expected Retention Time

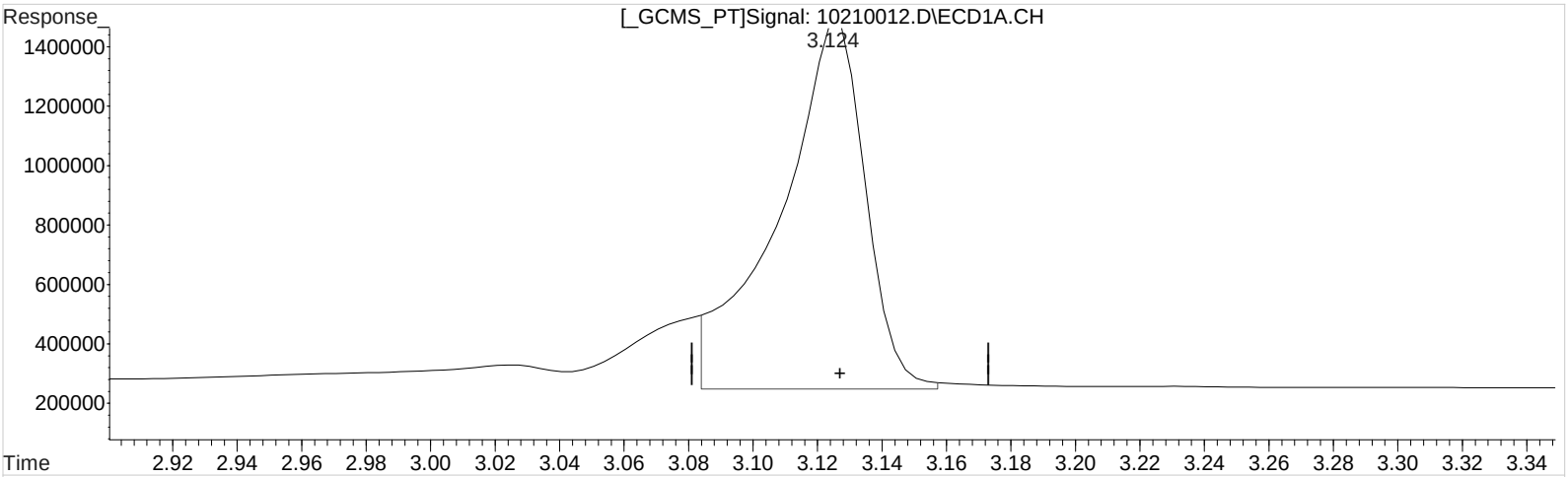
Quantitation Report (Qedit)

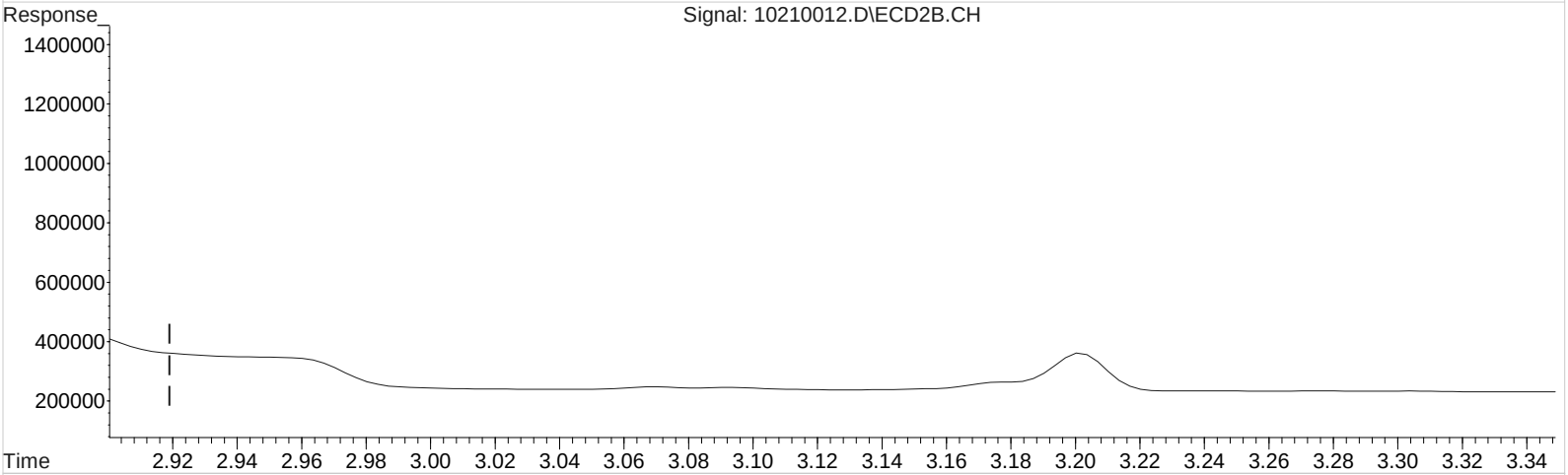
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.124min 93.788 ppb m

response 2275140

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 131.747 ppb

response 6365052

(+) = Expected Retention Time

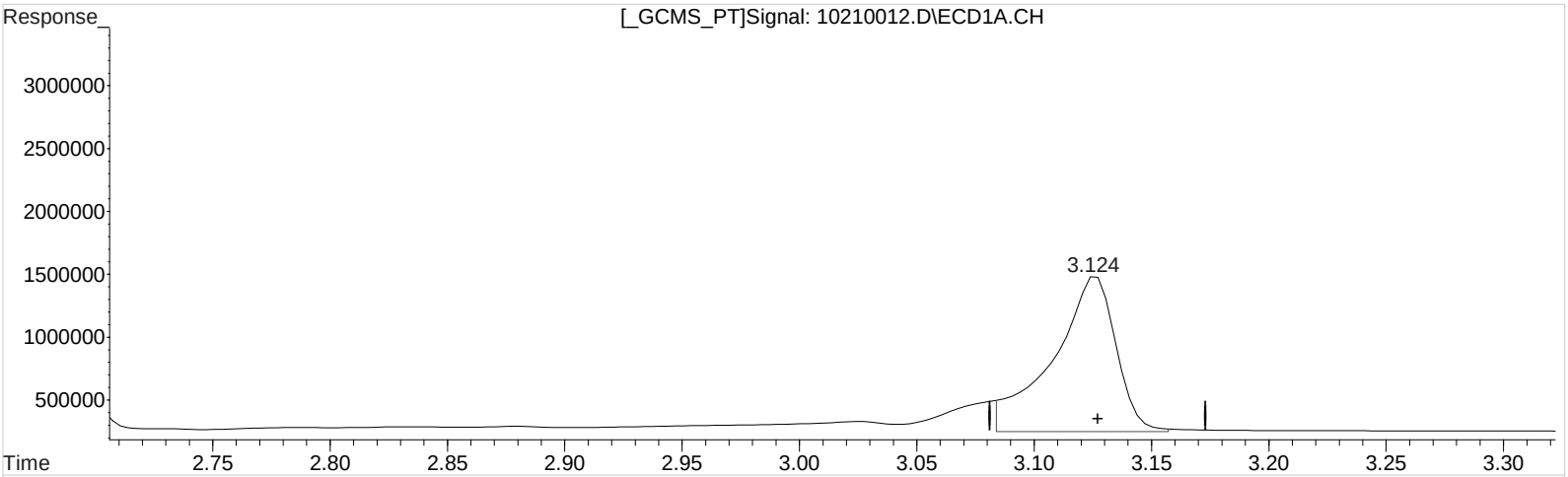
Quantitation Report (Qedit)

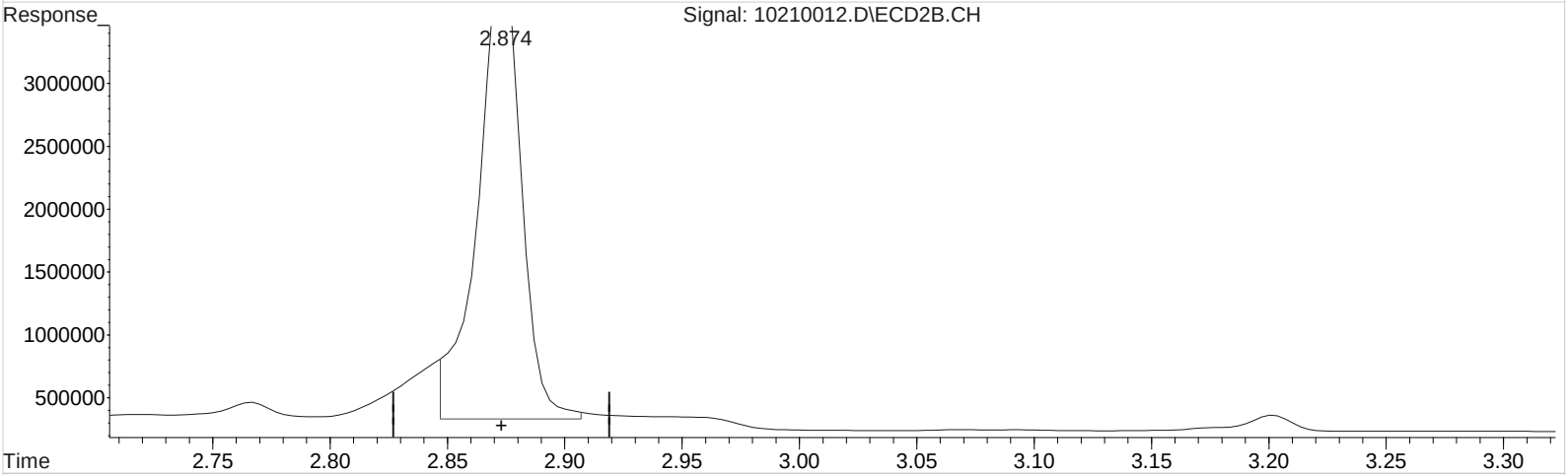
1st UA 10/21/20
2nd 10/22/20

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





QEdit

(1) Dalapon (m)

3.124min 93.788 ppb m

response 2275140

Manual Integration:

After

Baseline/Shoulder

10/21/20

(1) Dalapon #2 (m)

2.874min 95.982 ppb m

response 4637166

(+) = Expected Retention Time

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	11300001	F:01:01		PRIMER
No	2	Vial 100	8151A-17	11300002	F:02:01		PRIMER
No	3	Vial 1	8151A-17	11300003	F:03:01		PENTA-2 41C 100C
No	4	Vial 2	8151A-17	11300004	F:04:01		IB
No	5	none	STANDBY	11300005	F:05:01		STANBY
No	6	Vial 3	8151A-17	11300006	F:06:01		KQ20107764-04MB
No	7	Vial 4	8151A-17	11300007	F:07:01		KQ20107764-03LCS
No	8	Vial 5	8151A-17	11300008	F:08:01		K2010413-001
No	9	Vial 6	8151A-17	11300009	F:09:01		K2010413-002
No	10	Vial 7	8151A-17	11300010	F:10:01		K2010413-003
No	11	Vial 8	8151A-17	11300011	F:11:01		K2010413-004
No	12	Vial 9	8151A-17	11300012	F:12:01		K2010413-005
No	13	Vial 10	8151A-17	11300013	F:13:01		K2010413-006
No	14	Vial 11	8151A-17	11300014	F:14:01		K2010413-007
No	15	Vial 12	8151A-17	11300015	F:15:01		K2010413-008
No	16	Vial 1	8151A-17	11300016	F:16:01		PENTA-2 41C 100C
No	17	Vial 2	8151A-17	11300017	F:17:01		IB
No	18	Vial 13	8151A-17	11300018	F:18:01		K2010413-009
No	19	Vial 14	8151A-17	11300019	F:19:01		K2010413-010
No	20	Vial 15	8151A-17	11300020	F:20:01		K2010413-011
No	21	Vial 16	8151A-17	11300021	F:21:01		K2010413-012
No	22	Vial 17	8151A-17	11300022	F:22:01		K2010413-013
No	23	Vial 18	8151A-17	11300023	F:23:01		K2010413-014
No	24	Vial 19	8151A-17	11300024	F:24:01		K2010413-015
No	25	Vial 1	8151A-17	11300025	F:25:01		PENTA-2 41C 100C
No	26	Vial 2	8151A-17	11300026	F:26:01		IB
No	27	Vial 20	8151A-17	11300027	F:27:01		K2010413-016
No	28	Vial 21	8151A-17	11300028	F:28:01		K2010413-017
No	29	Vial 22	8151A-17	11300029	F:29:01		K2010413-018
No	30	Vial 23	8151A-17	11300030	F:30:01		K2010413-019
No	31	Vial 24	8151A-17	11300031	F:31:01		K2010413-020
No	32	Vial 25	8151A-17	11300032	F:32:01		KQ20107764-01MS
No	33	Vial 26	8151A-17	11300033	F:33:01		KQ20107764-02DMS
No	34	Vial 27	8151A-17	11300034	F:34:01		KQ2017766-04MB
No	35	Vial 28	8151A-17	11300035	F:35:01		KQ2017766-03LCS
No	36	Vial 29	8151A-17	11300036	F:36:01		K2010407-001
No	37	Vial 1	8151A-17	11300037	F:37:01		PENTA-2 41C 100C
No	38	Vial 2	8151A-17	11300038	F:38:01		IB
No	39	Vial 30	8151A-17	11300039	F:39:01		K2010407-002
No	40	Vial 31	8151A-17	11300040	F:40:01		K2010407-003
No	41	Vial 32	8151A-17	11300041	F:41:01		K2010407-004
No	42	Vial 33	8151A-17	11300042	F:42:01		K2010407-005
No	43	Vial 34	8151A-17	11300043	F:43:01		K2010407-006
No	44	Vial 35	8151A-17	11300044	F:44:01		K2010407-007
No	45	Vial 36	8151A-17	11300045	F:45:01		K2010407-008
No	46	Vial 37	8151A-17	11300046	F:46:01		K2010407-009
No	47	Vial 38	8151A-17	11300047	F:47:01		K2010407-010
No	48	Vial 39	8151A-17	11300048	F:48:01		K2010407-011
No	49	Vial 1	8151A-17	11300049	F:49:01		PENTA-2 41C 100C
No	50	Vial 2	8151A-17	11300050	F:50:01		IB
No	51	Vial 40	8151A-17	11300051	F:51:01		K2010407-012
No	52	Vial 41	8151A-17	11300052	F:52:01		K2010407-013
No	53	Vial 42	8151A-17	11300053	F:53:01		K2010407-014
No	54	Vial 43	8151A-17	11300054	F:54:01		K2010407-015
No	55	Vial 44	8151A-17	11300055	F:55:01		K2010407-016
No	56	Vial 45	8151A-17	11300056	F:56:01		K2010407-017
No	57	Vial 46	8151A-17	11300057	F:57:01		K2010407-018
No	58	Vial 47	8151A-17	11300058	F:58:01		K2010407-019
No	59	Vial 48	8151A-17	11300059	F:59:01		K2010407-020
No	60	Vial 1	8151A-17	11300060	F:60:01		PENTA-2 41C 100C
No	61	Vial 2	8151A-17	11300061	F:61:01		IB
No	62	Vial 49	8151A-17	11300062	F:62:01		KQ2017766-01MS
No	63	Vial 50	8151A-17	11300063	F:63:01		KQ2017766-02DMS
No	64	Vial 1	8151A-17	11300064	F:64:01		PENTA-2 41C 100C
No	65	Vial 2	8151A-17	11300065	F:65:01		IB

Run #: 705301

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	12010001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	12010002	F:02:01		PRIMER
No	3	Vial 2	8151A-17	12010003	F:03:01		PENTA2-14N 100PB
No	4	Vial 1	8151A-17	12010004	F:04:01		IB
No	5	Vial 51	8151A-17	12010005	F:05:01		KQ2018489-02MB
No	6	Vial 52	8151A-17	12010006	F:06:01		KQ2018489-01LCS
No	7	Vial 53	8151A-17	12010007	F:07:01		K2010456-001
No	8	Vial 54	8151A-17	12010008	F:08:01		K2010456-002
No	9	Vial 55	8151A-17	12010009	F:09:01		K2010456-003
No	10	Vial 56	8151A-17	12010010	F:10:01		K2010456-004
No	11	Vial 57	8151A-17	12010011	F:11:01		K2010456-005
No	12	Vial 58	8151A-17	12010012	F:12:01		K2010456-006
No	13	Vial 59	8151A-17	12010013	F:13:01		K2010456-007
No	14	Vial 60	8151A-17	12010014	F:14:01		K2010456-008
No	15	Vial 2	8151A-17	12010015	F:15:01		PENTA2-14N 100PB
No	16	Vial 1	8151A-17	12010016	F:16:01		IB
No	17	Vial 61	8151A-17	12010017	F:17:01		K2010456-009
No	18	Vial 62	8151A-17	12010018	F:18:01		K2010456-010
No	19	Vial 63	8151A-17	12010019	F:19:01		K2010456-011
No	20	Vial 64	8151A-17	12010020	F:20:01		K2010456-012
No	21	Vial 65	8151A-17	12010021	F:21:01		K2010456-016
No	22	Vial 66	8151A-17	12010022	F:22:01		K2010456-017
No	23	Vial 67	8151A-17	12010023	F:23:01		K2010456-018
No	24	Vial 68	8151A-17	12010024	F:24:01		K2010456-022
No	25	Vial 69	8151A-17	12010025	F:25:01		KQ2018489-03MS
No	26	Vial 70	8151A-17	12010026	F:26:01		KQ2018489-04DMS
No	27	Vial 2	8151A-17	12010027	F:27:01		PENTA2-14N 100PB
No	28	Vial 1	8151A-17	12010028	F:28:01		IB
No	29	Vial 71	8151A-17	12010029	F:29:01		K2010456-013 5X
No	30	Vial 72	8151A-17	12010030	F:30:01		K2010456-014 5X
No	31	Vial 73	8151A-17	12010031	F:31:01		K2010456-015 5X
No	32	Vial 74	8151A-17	12010032	F:32:01		K2010456-019 5X
No	33	Vial 3	8151A-17	12010033	F:33:01		KQ2017965-04MB
No	34	Vial 4	8151A-17	12010034	F:34:01		KQ2017965-03LCS
No	35	Vial 5	8151A-17	12010035	F:35:01		K2010456-020
No	36	Vial 6	8151A-17	12010036	F:36:01		K2010456-021
No	37	Vial 7	8151A-17	12010037	F:37:01		K2010456-023
No	38	Vial 8	8151A-17	12010038	F:38:01		K2010456-024
No	39	Vial 2	8151A-17	12010039	F:39:01		PENTA2-14N 100PB
No	40	Vial 1	8151A-17	12010040	F:40:01		IB
No	41	Vial 9	8151A-17	12010041	F:41:01		K2010456-025
No	42	Vial 10	8151A-17	12010042	F:42:01		K2010495-001
No	43	Vial 11	8151A-17	12010043	F:43:01		K2010495-002
No	44	Vial 12	8151A-17	12010044	F:44:01		K2010495-003
No	45	Vial 13	8151A-17	12010045	F:45:01		K2010495-004
No	46	Vial 14	8151A-17	12010046	F:46:01		K2010495-005
No	47	Vial 15	8151A-17	12010047	F:47:01		K2010495-006
No	48	Vial 16	8151A-17	12010048	F:48:01		K2010495-007
No	49	Vial 17	8151A-17	12010049	F:49:01		K2010495-008
No	50	Vial 18	8151A-17	12010050	F:50:01		K2010495-009
No	51	Vial 2	8151A-17	12010051	F:51:01		PENTA2-14N 100PB
No	52	Vial 1	8151A-17	12010052	F:52:01		IB
No	53	Vial 19	8151A-17	12010053	F:53:01		K2010495-010
No	54	Vial 20	8151A-17	12010054	F:54:01		K2010495-011
No	55	Vial 21	8151A-17	12010055	F:55:01		K2010495-012
No	56	Vial 22	8151A-17	12010056	F:56:01		KQ2017965-01MS
No	57	Vial 23	8151A-17	12010057	F:57:01		KQ2017965-02DMS
No	58	Vial 2	8151A-17	12010058	F:58:01		PENTA2-14N 100PB
No	59	Vial 1	8151A-17	12010059	F:59:01		IB
No	60	none	STANDBY	12010060	F:60:01		STANBY

Run #: 705487

Run# 705654

Sel	Run	Location	Method	Datafile	SeqTable	Calib:RF:RT	Sample Name
No	1	Vial 100	8151A-17	12010001	F:01:01		CCV PRIMER
No	2	Vial 100	8151A-17	12010002	F:02:01		PRIMER
No	3	Vial 2	8151A-17	12010003	F:03:01		PENTA2-14N 100PB
No	4	Vial 1	8151A-17	12010004	F:04:01		IB
No	5	Vial 51	8151A-17	12010005	F:05:01		KQ2018489-02MB
No	6	Vial 52	8151A-17	12010006	F:06:01		KQ2018489-01LCS
No	7	Vial 53	8151A-17	12010007	F:07:01		K2010456-001
No	8	Vial 54	8151A-17	12010008	F:08:01		K2010456-002
No	9	Vial 55	8151A-17	12010009	F:09:01		K2010456-003
No	10	Vial 56	8151A-17	12010010	F:10:01		K2010456-004
No	11	Vial 57	8151A-17	12010011	F:11:01		K2010456-005
No	12	Vial 58	8151A-17	12010012	F:12:01		K2010456-006
No	13	Vial 59	8151A-17	12010013	F:13:01		K2010456-007
No	14	Vial 60	8151A-17	12010014	F:14:01		K2010456-008
No	15	Vial 2	8151A-17	12010015	F:15:01		PENTA2-14N 100PB
No	16	Vial 1	8151A-17	12010016	F:16:01		IB
No	17	Vial 61	8151A-17	12010017	F:17:01		K2010456-009
No	18	Vial 62	8151A-17	12010018	F:18:01		K2010456-010
No	19	Vial 63	8151A-17	12010019	F:19:01		K2010456-011
No	20	Vial 64	8151A-17	12010020	F:20:01		K2010456-012
No	21	Vial 65	8151A-17	12010021	F:21:01		K2010456-016
No	22	Vial 66	8151A-17	12010022	F:22:01		K2010456-017
No	23	Vial 67	8151A-17	12010023	F:23:01		K2010456-018
No	24	Vial 68	8151A-17	12010024	F:24:01		K2010456-022
No	25	Vial 69	8151A-17	12010025	F:25:01		KQ2018489-03MS
No	26	Vial 70	8151A-17	12010026	F:26:01		KQ2018489-04DMS
No	27	Vial 2	8151A-17	12010027	F:27:01		PENTA2-14N 100PB
No	28	Vial 1	8151A-17	12010028	F:28:01		IB
No	29	Vial 71	8151A-17	12010029	F:29:01		K2010456-013 5X
No	30	Vial 72	8151A-17	12010030	F:30:01		K2010456-014 5X
No	31	Vial 73	8151A-17	12010031	F:31:01		K2010456-015 5X
No	32	Vial 74	8151A-17	12010032	F:32:01		K2010456-019 5X
No	33	Vial 3	8151A-17	12010033	F:33:01		KQ2017965-04MB
No	34	Vial 4	8151A-17	12010034	F:34:01		KQ2017965-03LCS
No	35	Vial 5	8151A-17	12010035	F:35:01		K2010456-020
No	36	Vial 6	8151A-17	12010036	F:36:01		K2010456-021
No	37	Vial 7	8151A-17	12010037	F:37:01		K2010456-023
No	38	Vial 8	8151A-17	12010038	F:38:01		K2010456-024
No	39	Vial 2	8151A-17	12010039	F:39:01		~~PENTA2-14N 100PB~~ IB
No	40	Vial 1	8151A-17	12010040	F:40:01		~~IB~~ PENTA2-14N 100ppb
No	41	Vial 9	8151A-17	12010041	F:41:01		K2010456-025
No	42	Vial 10	8151A-17	12010042	F:42:01		K2010495-001
No	43	Vial 2	8151A-17	12010043	F:43:01		~~PENTA2-14N 100PB~~ Blank
No	44	Vial 51	8151A-17	12010044	F:44:01		KQ2018489-02MB
No	45	Vial 52	8151A-17	12010045	F:45:01		KQ2018489-01LCS
No	46	Vial 53	8151A-17	12010046	F:46:01		K2010456-001
No	47	Vial 54	8151A-17	12010047	F:47:01		K2010456-002
No	48	Vial 55	8151A-17	12010048	F:48:01		K2010456-003
No	49	Vial 56	8151A-17	12010049	F:49:01		K2010456-004
No	50	Vial 57	8151A-17	12010050	F:50:01		K2010456-005
No	51	Vial 1	8151A-17	12010051	F:51:01		PENTA2-14N 100PB
No	52	Vial 2	8151A-17	12010052	F:52:01		IB
No	53	Vial 58	8151A-17	12010053	F:53:01		K2010456-006
No	54	Vial 59	8151A-17	12010054	F:54:01		K2010456-007
No	55	Vial 60	8151A-17	12010055	F:55:01		K2010456-008
No	56	Vial 61	8151A-17	12010056	F:56:01		K2010456-009
No	57	Vial 62	8151A-17	12010057	F:57:01		K2010456-010
No	58	Vial 63	8151A-17	12010058	F:58:01		K2010456-011
No	59	Vial 64	8151A-17	12010059	F:59:01		K2010456-012
No	60	Vial 65	8151A-17	12010060	F:60:01		K2010456-016
No	61	Vial 66	8151A-17	12010061	F:61:01		K2010456-017
No	62	Vial 67	8151A-17	12010062	F:62:01		K2010456-018
No	63	Vial 1	8151A-17	12010063	F:63:01		PENTA2-14N 100PB
No	64	Vial 2	8151A-17	12010064	F:64:01		IB
No	65	Vial 68	8151A-17	12010065	F:65:01		K2010456-022

RR

different Run

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12/2/20