

Cover Page

Order ID : Q2100

Project ID : South River WM Replacement

Client : CDM Smith

Lab Sample Number

Q2100-01
Q2100-02
Q2100-03
Q2100-04

Client Sample Number

TP-16
TP-22
TP-21
TP-45

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 5/29/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2100

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: PRADIP PRAJAPATI

Date: 05/29/2025

LAB CHRONICLE

OrderID:	Q2100	OrderDate:	5/20/2025 3:22:00 PM
Client:	CDM Smith	Project:	South River WM Replacement
Contact:	Marcie Ann Encinas	Location:	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2100-01	TP-16	SOIL			05/19/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/23/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-02	TP-22	SOIL			05/19/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-03	TP-21	SOIL			05/20/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	
Q2100-04	TP-45	SOIL			05/20/25			05/20/25
			Diesel Range Organics	8015D		05/23/25	05/23/25	
			Gasoline Range Organics	8015D			05/21/25	
			Herbicide	8151A		05/23/25	05/24/25	
			PCB	8082A		05/22/25	05/22/25	
			Pesticide-TCL	8081B		05/22/25	05/22/25	



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2100

Order ID: Q2100

Client: CDM Smith

Project ID: South River WM Replacement

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID :

Total Concentration: 0.000



QC SUMMARY

Surrogate Summary

SDG No.: Q2100

Client: CDM Smith

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS030124.D	PIBLK-PS030124.D	2,4-DCAA	1	500	419	84		39	175
		2,4-DCAA	2	500	418	84		39	175
I.BLK-PS030379.D	PIBLK-PS030379.D	2,4-DCAA	1	500	507	101		39	175
		2,4-DCAA	2	500	493	99		39	175
PB168137BL	PB168137BL	2,4-DCAA	1	500	449	90		10	141
		2,4-DCAA	2	500	406	81		10	141
PB168137BS	PB168137BS	2,4-DCAA	1	500	510	102		10	141
		2,4-DCAA	2	500	435	87		10	141
I.BLK-PS030391.D	PIBLK-PS030391.D	2,4-DCAA	1	500	531	106		39	175
		2,4-DCAA	2	500	526	105		39	175
Q2100-01	TP-16	2,4-DCAA	1	500	359	72		10	141
		2,4-DCAA	2	500	322	64		10	141
Q2100-02	TP-22	2,4-DCAA	1	500	299	60		10	141
		2,4-DCAA	2	500	279	56		10	141
Q2100-03	TP-21	2,4-DCAA	1	500	252	50		10	141
		2,4-DCAA	2	500	234	47		10	141
I.BLK-PS030403.D	PIBLK-PS030403.D	2,4-DCAA	1	500	522	104		39	175
		2,4-DCAA	2	500	531	106		39	175
Q2100-04	TP-45	2,4-DCAA	1	500	280	56		10	141
		2,4-DCAA	2	500	254	51		10	141
I.BLK-PS030408.D	PIBLK-PS030408.D	2,4-DCAA	1	500	531	106		39	175
		2,4-DCAA	2	500	535	107		39	175
I.BLK-PS030426.D	PIBLK-PS030426.D	2,4-DCAA	1	500	488	98		39	175
		2,4-DCAA	2	500	482	96		39	175
Q2100-03MS	TP-21MS	2,4-DCAA	1	500	282	56		10	141
		2,4-DCAA	2	500	249	50		10	141
Q2100-03MSD	TP-21MSD	2,4-DCAA	1	500	293	59		10	141
		2,4-DCAA	2	500	262	52		10	141
I.BLK-PS030433.D	PIBLK-PS030433.D	2,4-DCAA	1	500	499	100		39	175
		2,4-DCAA	2	500	483	97		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2100</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS030429.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2100-03MS (Column 1)	TP-21MS											
	DICAMBA	213.1	0	117	ug/Kg	55				10	112	
	DICHLORPROP	213.1	0	123	ug/Kg	58				10	113	
	2,4-D	213.1	0	154	ug/Kg	72				10	144	
	2,4,5-TP(Silvex)	213.1	0	120	ug/Kg	56				10	114	
	2,4,5-T	213.1	0	122	ug/Kg	57				10	115	
	2,4-DB	213.1	0	156	ug/Kg	73				10	140	
Client Sample ID: Q2100-03MS (Column 2)	Dinoseb	213.1	0	20.4	ug/Kg	10				10	118	
	TP-21MS											
	DICAMBA	213.1	0	109	ug/Kg	51				10	112	
	DICHLORPROP	213.1	0	119	ug/Kg	56				10	113	
	2,4-D	213.1	0	134	ug/Kg	63				10	144	
	2,4,5-TP(Silvex)	213.1	0	123	ug/Kg	58				10	114	
	2,4,5-T	213.1	0	118	ug/Kg	55				10	115	
	2,4-DB	213.1	0	110	ug/Kg	52				10	140	
	Dinoseb	213.1	0	20.6	ug/Kg	10				10	118	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.:	<u>Q2100</u>	Analytical Method:	<u>8151A</u>
Client:	<u>CDM Smith</u>	DataFile :	<u>PS030430.D</u>

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: Q2100-03MSD (Column 1)	TP-21MSD											
	DICAMBA	212.6	0	121	ug/Kg	57		4		10	112	20
	DICHLORPROP	212.6	0	128	ug/Kg	60		3		10	113	20
	2,4-D	212.6	0	146	ug/Kg	69		4		10	144	20
	2,4,5-TP(Silvex)	212.6	0	128	ug/Kg	60		7		10	114	20
	2,4,5-T	212.6	0	127	ug/Kg	60		5		10	115	20
	2,4-DB	212.6	0	158	ug/Kg	74		1		10	140	20
Client Sample ID: Q2100-03MSD (Column 2)	Dinoseb	212.6	0	20.5	ug/Kg	10		0		10	118	20
	TP-21MSD											
	DICAMBA	212.6	0	115	ug/Kg	54		6		10	112	20
	DICHLORPROP	212.6	0	113	ug/Kg	53		6		10	113	20
	2,4-D	212.6	0	138	ug/Kg	65		3		10	144	20
	2,4,5-TP(Silvex)	212.6	0	129	ug/Kg	61		5		10	114	20
	2,4,5-T	212.6	0	123	ug/Kg	58		5		10	115	20
	2,4-DB	212.6	0	115	ug/Kg	54		4		10	140	20
	Dinoseb	212.6	0	20.6	ug/Kg	10		0		10	118	20

**SW-846**

Analytical Method: 8151A

Datafile : PS030382.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD	Limits	
								Qual	Low	High
PB168137BS (Column 1)	DICAMBA	166.6	148	ug/Kg	89				72	129
	DICHLORPROP	166.6	164	ug/Kg	98				77	135
	2,4-D	166.6	183	ug/Kg	110				65	144
	2,4,5-TP(Silvex)	166.6	167	ug/Kg	100				74	146
	2,4,5-T	166.6	165	ug/Kg	99				77	134
	2,4-DB	166.6	177	ug/Kg	106				72	122
	Dinoseb	166.6	148	ug/Kg	89				74	132
PB168137BS (Column 2)	DICAMBA	166.6	150	ug/Kg	90				72	129
	DICHLORPROP	166.6	175	ug/Kg	105				77	135
	2,4-D	166.6	171	ug/Kg	103				65	144
	2,4,5-TP(Silvex)	166.6	168	ug/Kg	101				74	146
	2,4,5-T	166.6	156	ug/Kg	94				77	134
	2,4-DB	166.6	134	ug/Kg	80				72	122
	Dinoseb	166.6	136	ug/Kg	82				74	132

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168137BL

Lab Name: CHEMTECH

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100

SAS No.: Q2100 SDG NO.: Q2100

Lab Sample ID: PB168137BL

Lab File ID: PS030381.D

Matrix: (soil/water) Solid

Extraction: (Type) SOXH

Sulfur Cleanup: (Y/N) N

Date Extracted: 05/23/2025

Date Analyzed (1): 05/23/2025

Date Analyzed (2): 05/23/2025

Time Analyzed (1): 16:28

Time Analyzed (2): 16:28

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column (1): RTX-CLP ID: 0.32 (mm)

GC Column (2): RTX-CLP2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB168137BS	PB168137BS	PS030382.D	05/23/2025	05/23/2025
TP-16	Q2100-01	PS030398.D	05/23/2025	05/23/2025
TP-22	Q2100-02	PS030399.D	05/24/2025	05/24/2025
TP-21	Q2100-03	PS030400.D	05/24/2025	05/24/2025
TP-45	Q2100-04	PS030405.D	05/24/2025	05/24/2025
TP-21MS	Q2100-03MS	PS030429.D	05/29/2025	05/29/2025
TP-21MSD	Q2100-03MSD	PS030430.D	05/29/2025	05/29/2025

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-16	SDG No.:	Q2100
Lab Sample ID:	Q2100-01	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	88.4
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030398.D	1	05/23/25 08:25	05/23/25 23:41	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	75.6	ug/Kg
120-36-5	DICHLORPROP	14.4	U	14.4	75.6	ug/Kg
94-75-7	2,4-D	10.2	U	10.2	75.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	75.6	ug/Kg
93-76-5	2,4,5-T	9.80	U	9.80	75.6	ug/Kg
94-82-6	2,4-DB	27.3	U	27.3	75.6	ug/Kg
88-85-7	DINOSEB	12.2	U	12.2	75.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	359		10 - 141	72%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030398.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 23:41
 Operator : AR\AJ
 Sample : Q2100-01
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-16

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/27/2025
 Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 24 01:54:41 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.925	7.443	1023.6E6	257.6E6	359.442m	321.899m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030398.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 23:41
Operator : AR\AJ
Sample : Q2100-01
Misc :
ALS Vial : 25 Sample Multiplier: 1

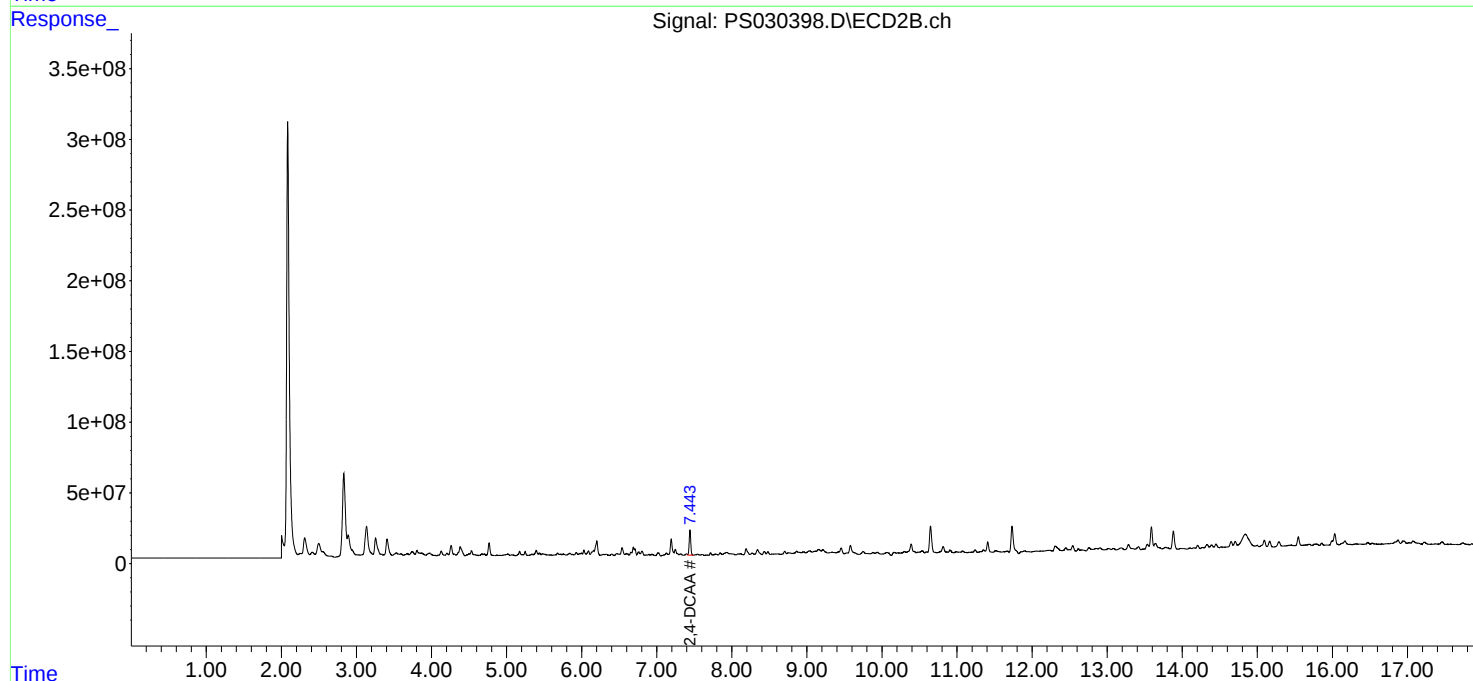
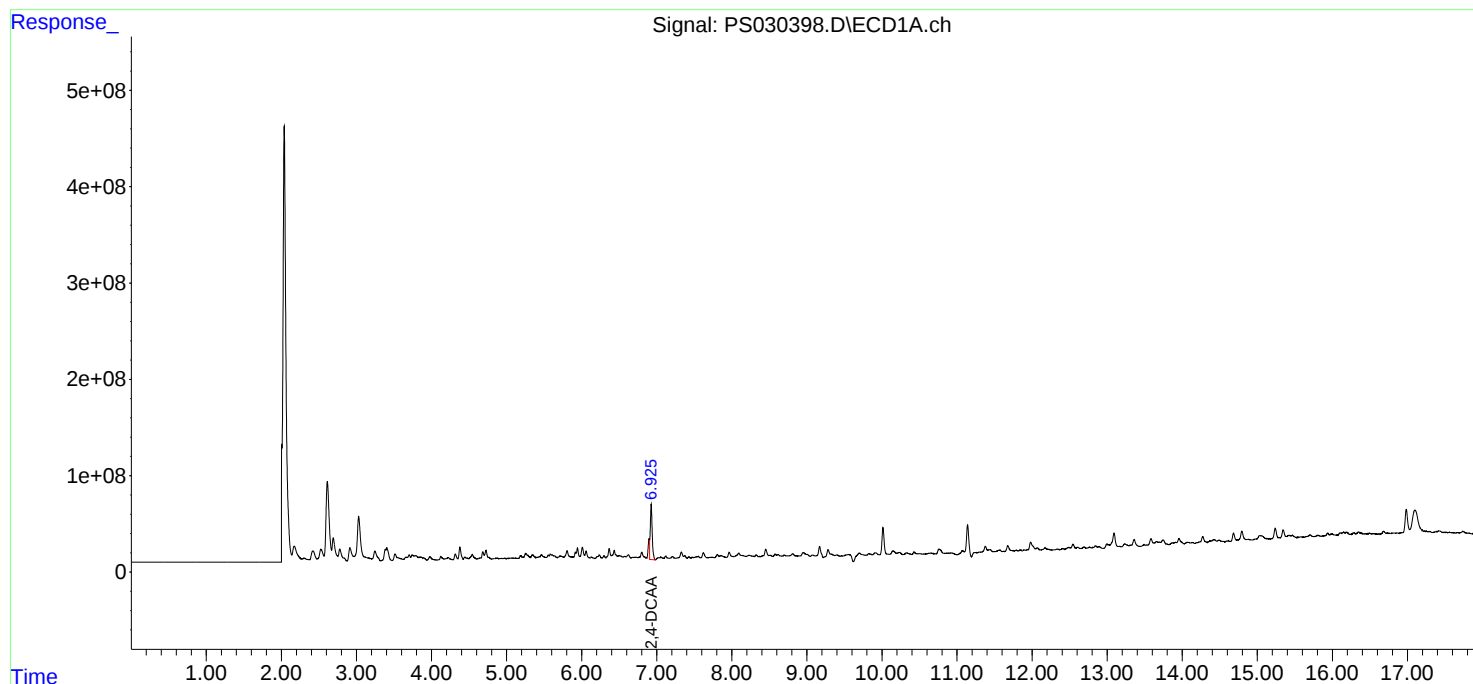
Instrument :
ECD_S
ClientSampleId :
TP-16

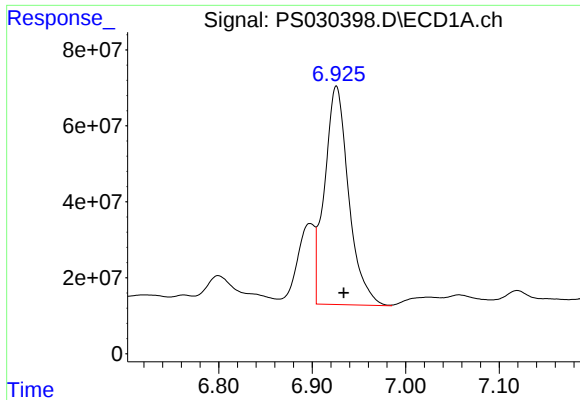
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/27/2025
Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:54:41 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





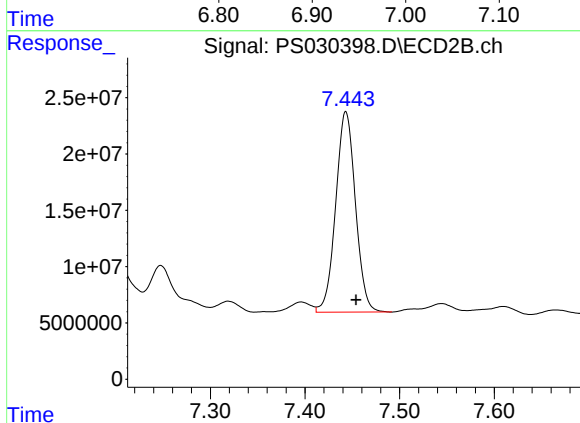
#4 2,4-DCAA

R.T.: 6.925 min
Delta R.T.: -0.008 min
Response: 1023622686
Conc: 359.44 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-16

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/27/2025
Supervised By :mohammad ahmed 05/28/2025



#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 257584907
Conc: 321.90 ng/ml m

Report of Analysis

Client:	CDM Smith	Date Collected:	05/19/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-22	SDG No.:	Q2100
Lab Sample ID:	Q2100-02	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	84
Sample Wt/Vol:	30.02	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030399.D	1	05/23/25 08:25	05/24/25 00:05	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.20	U	9.20	79.7	ug/Kg
120-36-5	DICHLORPROP	15.2	U	15.2	79.7	ug/Kg
94-75-7	2,4-D	10.8	U	10.8	79.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.8	U	10.8	79.7	ug/Kg
93-76-5	2,4,5-T	10.4	U	10.4	79.7	ug/Kg
94-82-6	2,4-DB	28.8	U	28.8	79.7	ug/Kg
88-85-7	DINOSEB	12.8	U	12.8	79.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	299		10 - 141	60%	SPK: 500

Comments:

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.442	851.4E6	223.4E6	298.977	279.171

Target Compounds

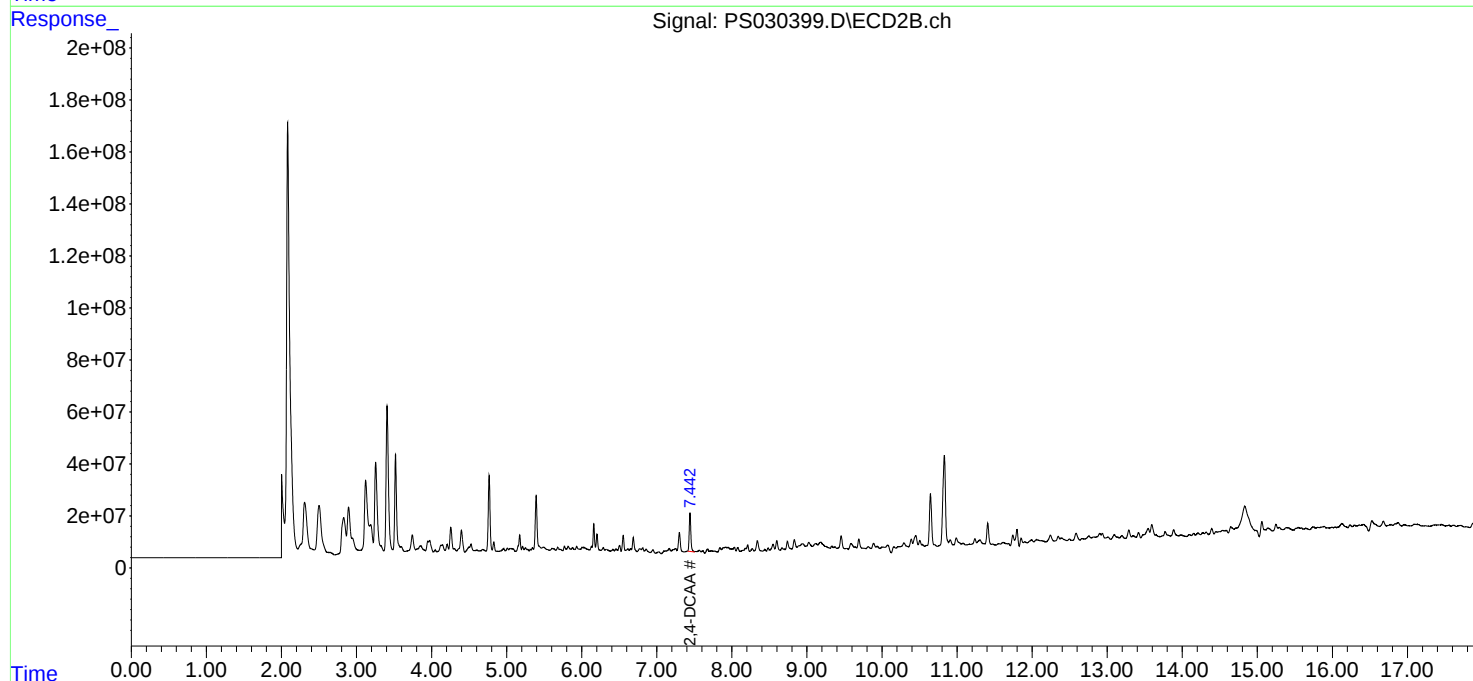
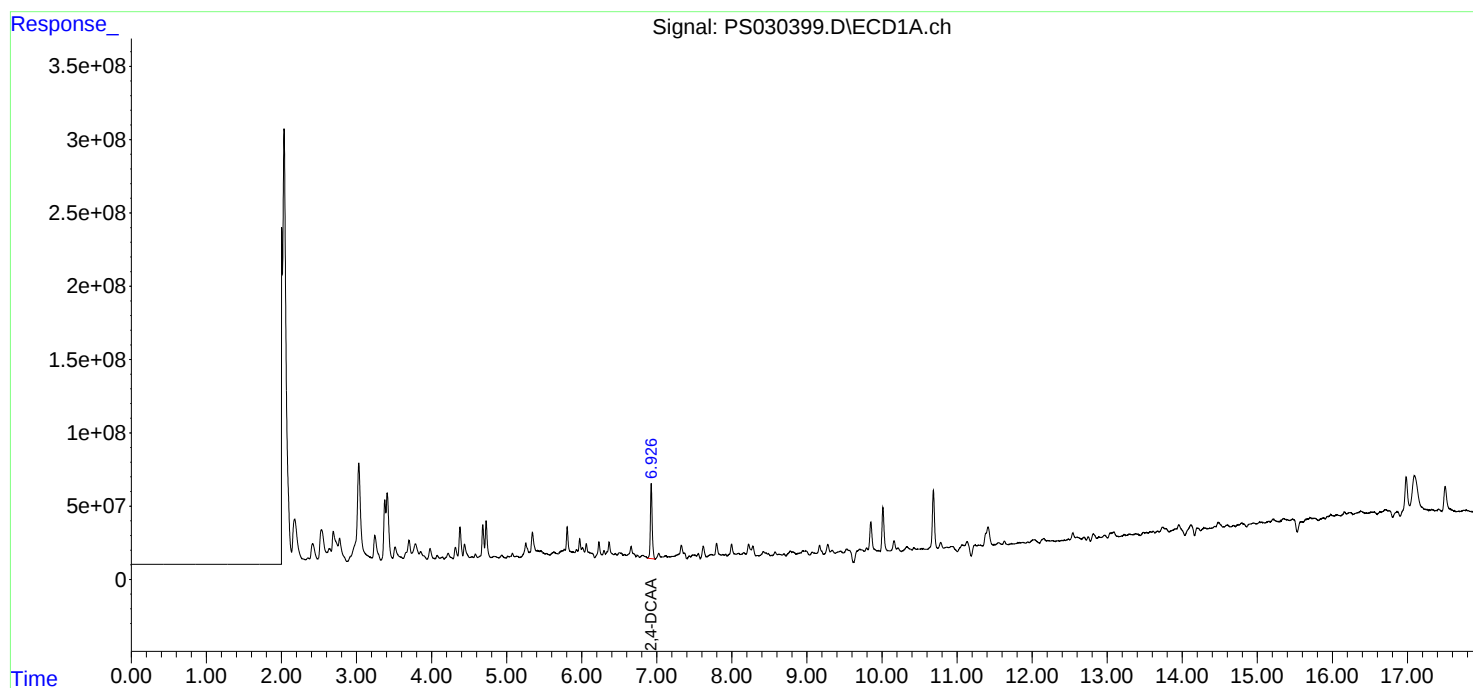
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

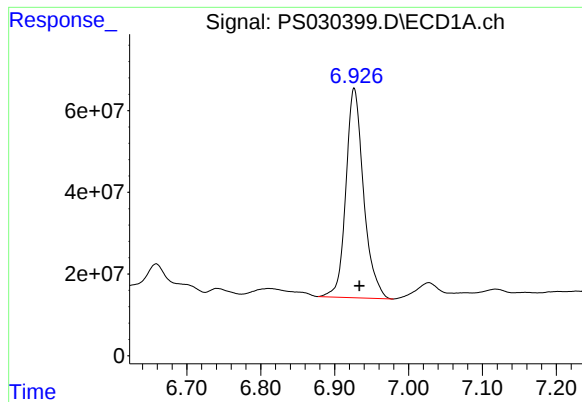
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030399.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:05
Operator : AR\AJ
Sample : Q2100-02
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-22

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

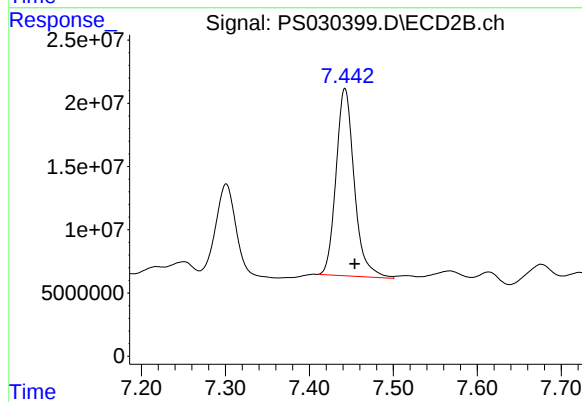




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 851428642
Conc: 298.98 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-22



#4 2,4-DCAA

R.T.: 7.442 min
Delta R.T.: -0.012 min
Response: 223393413
Conc: 279.17 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21	SDG No.:	Q2100
Lab Sample ID:	Q2100-03	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2
Sample Wt/Vol:	30.06	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030400.D	1	05/23/25 08:25	05/24/25 00:29	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.90	U	9.90	85.5	ug/Kg
120-36-5	DICHLORPROP	16.3	U	16.3	85.5	ug/Kg
94-75-7	2,4-D	11.5	U	11.5	85.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.6	U	11.6	85.5	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	85.5	ug/Kg
94-82-6	2,4-DB	30.9	U	30.9	85.5	ug/Kg
88-85-7	DINOSEB	13.8	U	13.8	85.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	252		10 - 141	50%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030400.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:29
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.443	718.7E6	187.1E6	252.386	233.775

Target Compounds

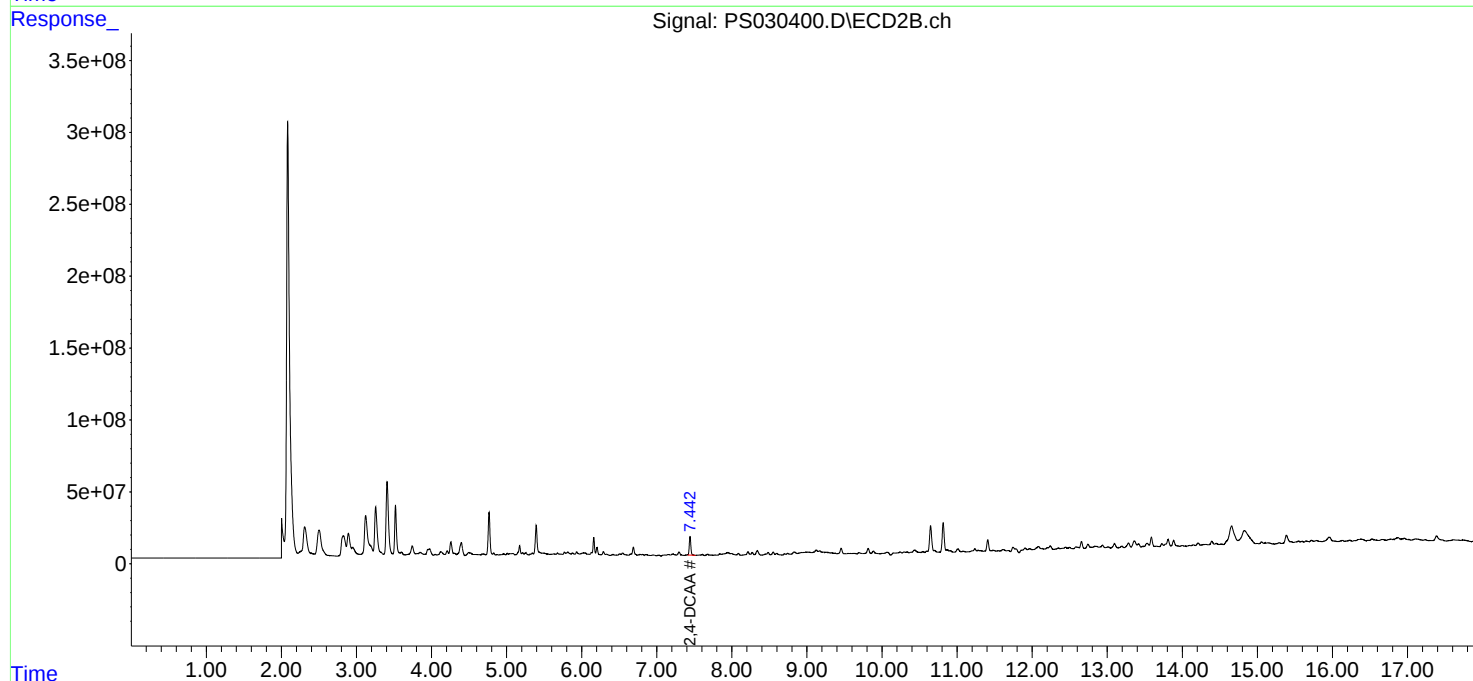
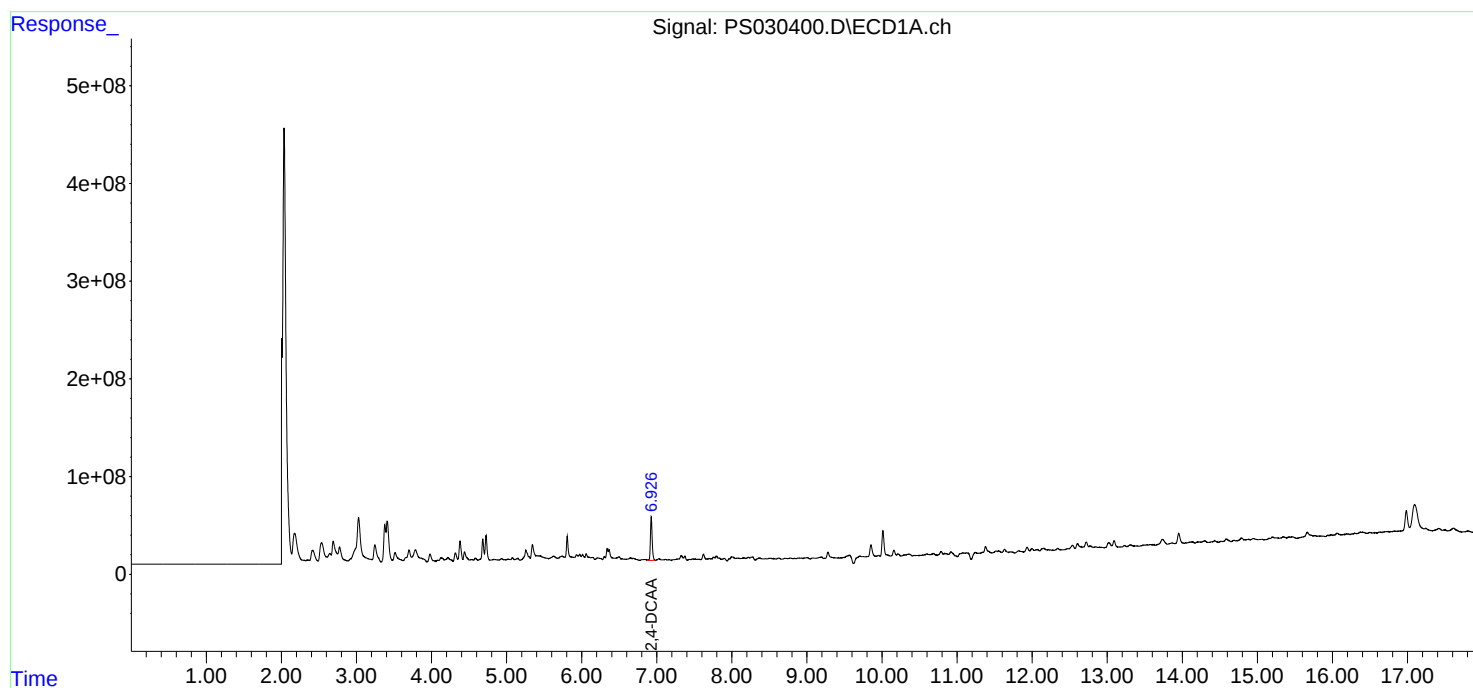
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

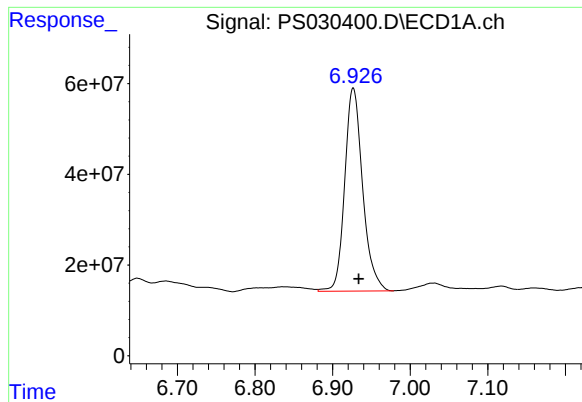
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030400.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 00:29
Operator : AR\AJ
Sample : Q2100-03
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-21

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 01:55:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

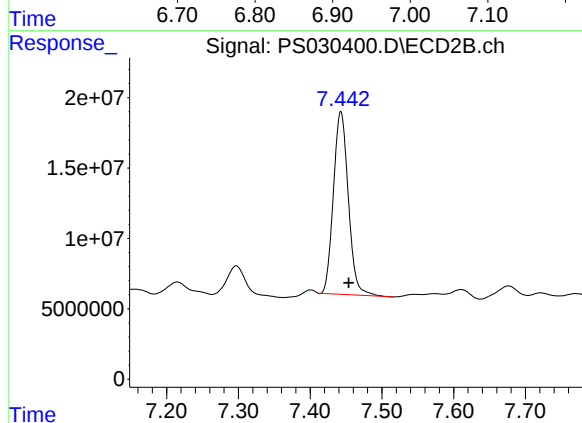




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 718747131
Conc: 252.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-21



#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 187067641
Conc: 233.78 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-45	SDG No.:	Q2100
Lab Sample ID:	Q2100-04	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	76.2
Sample Wt/Vol:	30.03	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030405.D	1	05/23/25 08:25	05/24/25 02:53	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.2	U	10.2	87.8	ug/Kg
120-36-5	DICHLORPROP	16.8	U	16.8	87.8	ug/Kg
94-75-7	2,4-D	11.9	U	11.9	87.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	11.9	U	11.9	87.8	ug/Kg
93-76-5	2,4,5-T	11.4	U	11.4	87.8	ug/Kg
94-82-6	2,4-DB	31.7	U	31.7	87.8	ug/Kg
88-85-7	DINOSEB	14.2	U	14.2	87.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	280		10 - 141	56%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 02:53
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 04:34:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.442	796.5E6	203.3E6	279.675	254.020

Target Compounds

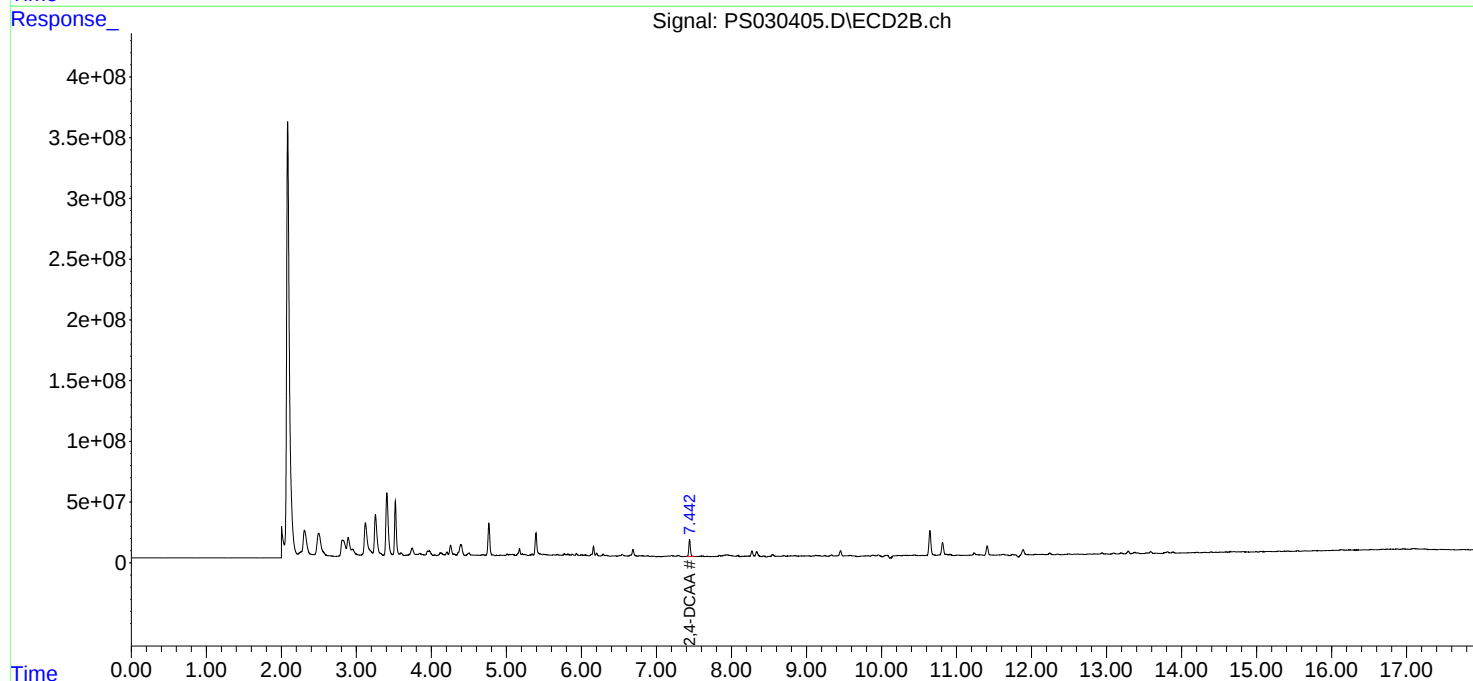
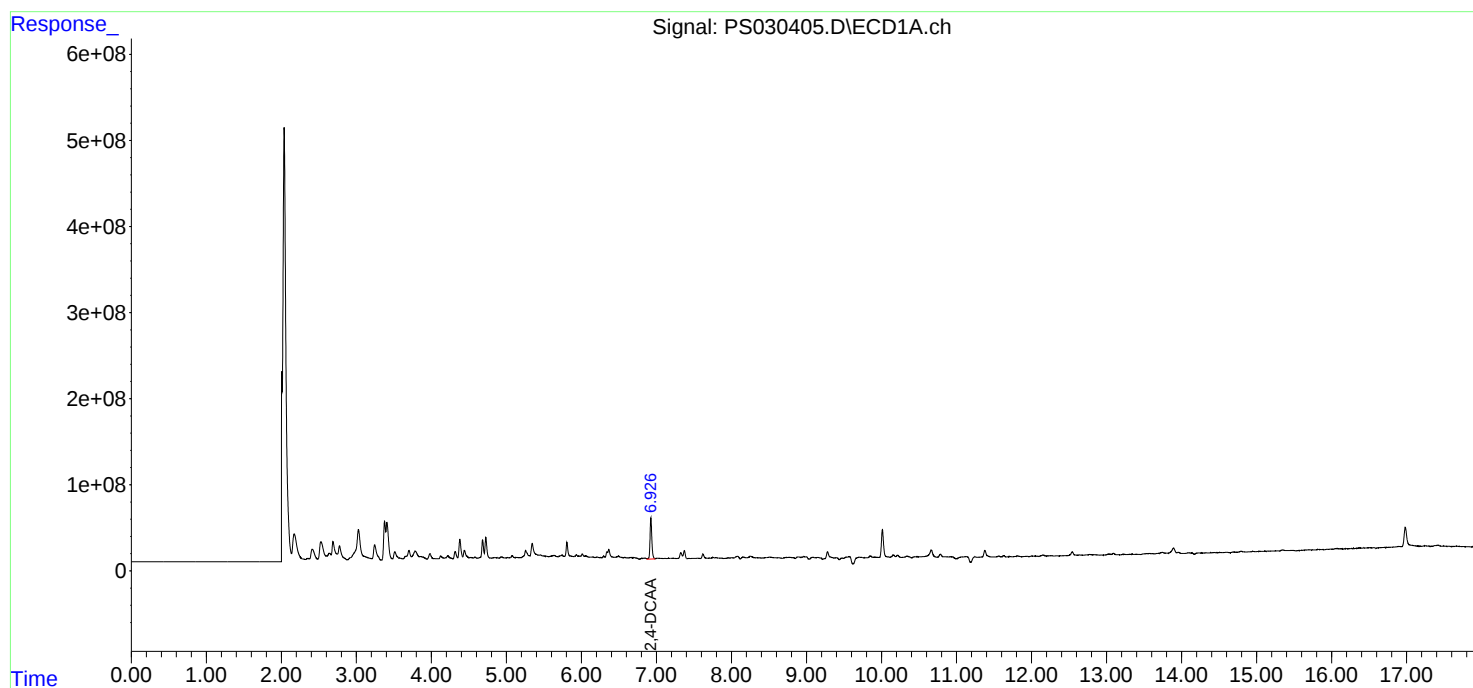
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

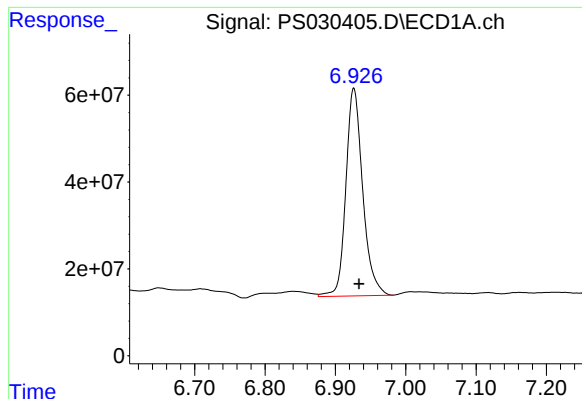
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 02:53
Operator : AR\AJ
Sample : Q2100-04
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
TP-45

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 04:34:56 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

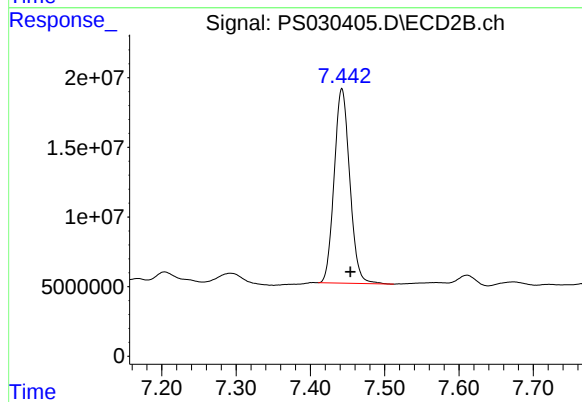




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 796461582
Conc: 279.68 ng/ml

Instrument :
ECD_S
ClientSampleId :
TP-45



#4 2,4-DCAA

R.T.: 7.442 min
Delta R.T.: -0.011 min
Response: 203267346
Conc: 254.02 ng/ml



CALIBRATION SUMMARY

GC Column: RTX-CLP ID: 0.32 (mm)

[illegible]

GC Column: RTX-CLP2 ID: 0.32 (mm)

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100
Instrument ID: ECD_S **Calibration Date(s):** 05/12/2025 05/12/2025
Calibration Times: 12:30 14:06

GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS030125.D</u>		CF 500 = <u>PS030126.D</u>			
CF 750 = <u>PS030127.D</u>		CF 1000 = <u>PS030128.D</u>		CF 1500 = <u>PS030129.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	19806400000	16697600000	15922400000	15360700000	14788800000	16515200000	12
2,4,5-TP(Silvex)	19321200000	16303400000	15619800000	15128700000	14606800000	16196000000	11
2,4-D	4048870000	3291910000	3113030000	3014870000	2926010000	3278940000	14
2,4-DB	2822620000	2567110000	2564340000	2542470000	2552320000	2609770000	5
2,4-DCAA	3540840000	2868830000	2702520000	2609290000	2517560000	2847810000	14
DICAMBA	13660900000	11601800000	11140600000	10847100000	10536400000	11557400000	11
DICHLORPROP	3626670000	2931320000	2773470000	2680380000	2594880000	2921340000	14
Dinoseb	13788600000	11497400000	10989000000	10638600000	10268200000	11436400000	12



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Instrument ID: ECD_S

Calibration Date(s): 05/12/2025 05/12/2025

Calibration Times: 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

LAB FILE ID:		CF 200 =	<u>PS030125.D</u>	CF 500 =	<u>PS030126.D</u>		
CF 750 =		<u>PS030127.D</u>	CF 1000 =	<u>PS030128.D</u>	CF 1500 =	<u>PS030129.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10274700000	9232570000	9042300000	8854580000	8613880000	9203610000	7
2,4,5-TP(Silvex)	10913400000	9868000000	9697110000	9517670000	9255920000	9850430000	6
2,4-D	1480680000	1290430000	1248060000	1225910000	1207420000	1290500000	9
2,4-DB	1268930000	952436000	948485000	881256000	910753000	992372000	16
2,4-DCAA	922885000	799420000	773490000	758361000	746863000	800204000	9
DICAMBA	5034950000	4673810000	4651340000	4635790000	4643990000	4727980000	4
DICHLORPROP	1388930000	1177530000	1140920000	1112240000	1087540000	1181430000	10
Dinoseb	7723880000	6842530000	6670660000	6540750000	6382090000	6831980000	8

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030125.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:30
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:50:05 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.934	7.454	708.2E6	184.6E6	233.150	221.866
Target Compounds							
1) T	Dalapon	2.446	2.520	1161.8E6	445.3E6	230.933	208.837
2) T	3,5-DICHL...	6.138	6.453	948.7E6	240.0E6	214.407	195.017
3) T	4-Nitroph...	6.725	6.989	439.9E6	195.9E6	203.363	173.219
5) T	DICAMBA	7.109	7.639	2568.3E6	946.6E6	211.650	199.141
6) T	MCPD	7.286	7.744	110.4E6	32616416	14.656	18.070
7) T	MCPA	7.428	7.974	200.2E6	49441444	19.272	18.610
8) T	DICHLORPROP	7.789	8.332	681.8E6	261.1E6	219.198	211.296
9) T	2,4-D	8.011	8.644	761.2E6	278.4E6	218.443	207.780
10) T	Pentachlo...	8.286	9.144	9450.6E6	5262.3E6	215.768	204.481
11) T	2,4,5-TP ...	8.850	9.522	3671.0E6	2073.6E6	214.913	204.100
12) T	2,4,5-T	9.133	9.927	3763.2E6	1952.2E6	215.342	205.137
13) T	2,4-DB	9.691	10.485	536.3E6	241.1E6	202.273	228.178
14) T	DINOSEB	10.850	10.858	2592.3E6	1452.1E6	214.384	205.126
15) T	Picloram	10.672	11.892	4602.8E6	2955.0E6	207.830	206.560m
16) T	DCPA	11.152	11.892	4589.7E6	2821.7E6	217.427	194.524m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:30
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

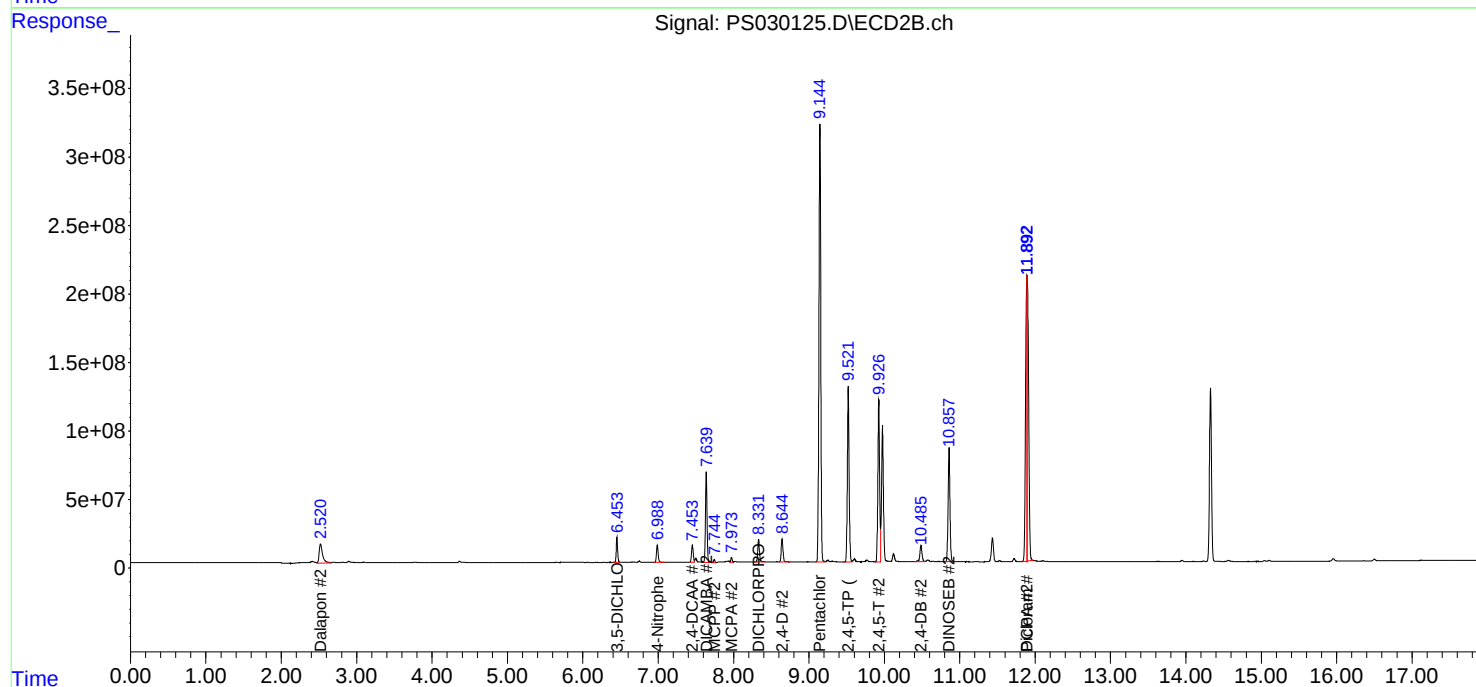
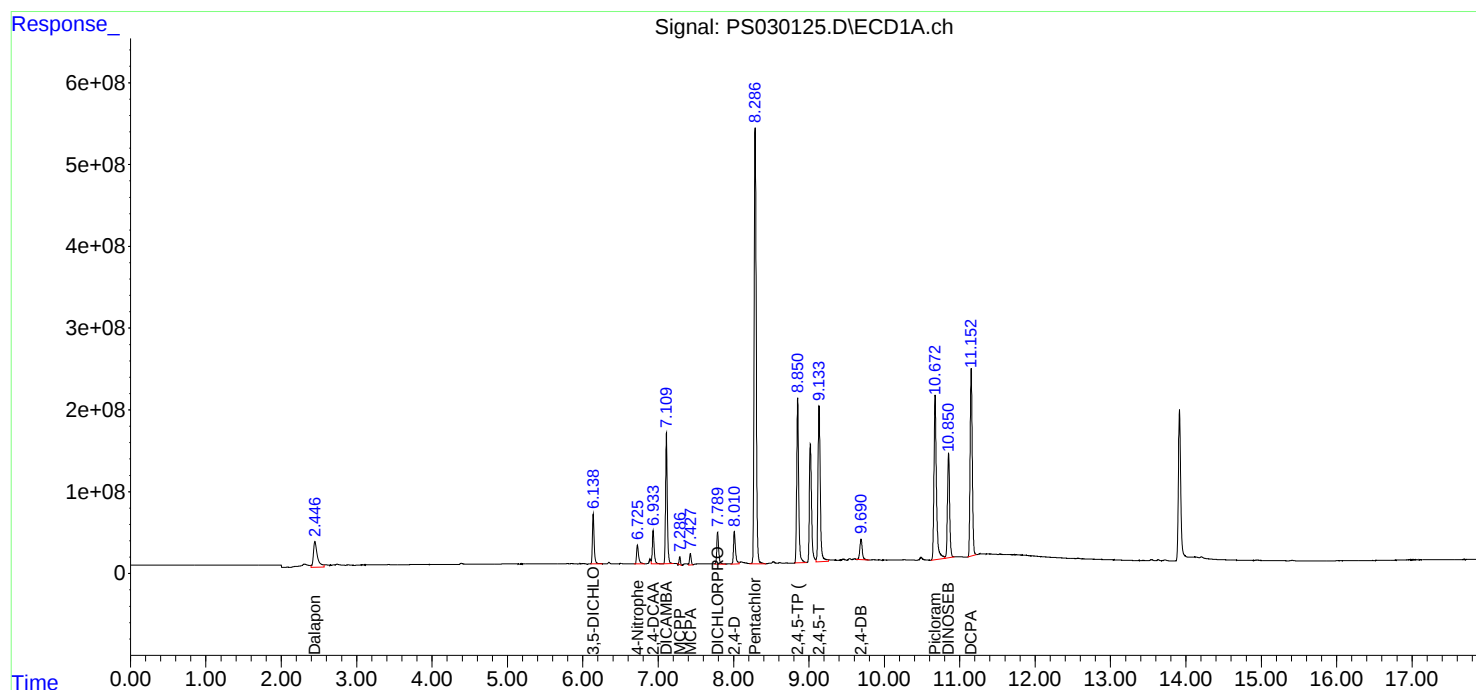
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:50:05 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030126.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:54
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:47:07 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.933	7.454	1434.4E6	399.7E6	514.926	508.243
Target Compounds							
1) T	Dalapon	2.447	2.520	2243.7E6	920.5E6	471.266	466.069
2) T	3,5-DICHL...	6.138	6.453	1954.7E6	604.8E6	478.289	503.770
3) T	4-Nitroph...	6.724	6.988	957.1E6	626.7E6	470.076	541.042
5) T	DICAMBA	7.109	7.639	5452.8E6	2196.7E6	479.532	471.133
6) T	MCPD	7.287	7.746	351.0E6	83878837	46.529	45.584
7) T	MCPA	7.429	7.975	474.0E6	124.4E6	46.459	46.843
8) T	DICHLORPROP	7.789	8.332	1377.7E6	553.4E6	483.005	477.421
9) T	2,4-D	8.009	8.645	1547.2E6	606.5E6	483.126	477.844
10) T	Pentachlo...	8.286	9.145	19907.6E6	11940.1E6	487.580	482.342
11) T	2,4,5-TP ...	8.851	9.523	7744.1E6	4687.3E6	485.171	479.149
12) T	2,4,5-T	9.132	9.927	7931.4E6	4385.5E6	486.289	479.945
13) T	2,4-DB	9.690	10.485	1219.4E6	452.4E6	475.256	475.987
14) T	DINOSEB	10.851	10.859	5403.8E6	3216.0E6	480.627	475.978
15) T	Picloram	10.672	11.894	10147.5E6	6755.0E6	480.746	488.999m
16) T	DCPA	11.152	11.893	9696.2E6	6912.8E6	491.912	476.219m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:54
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

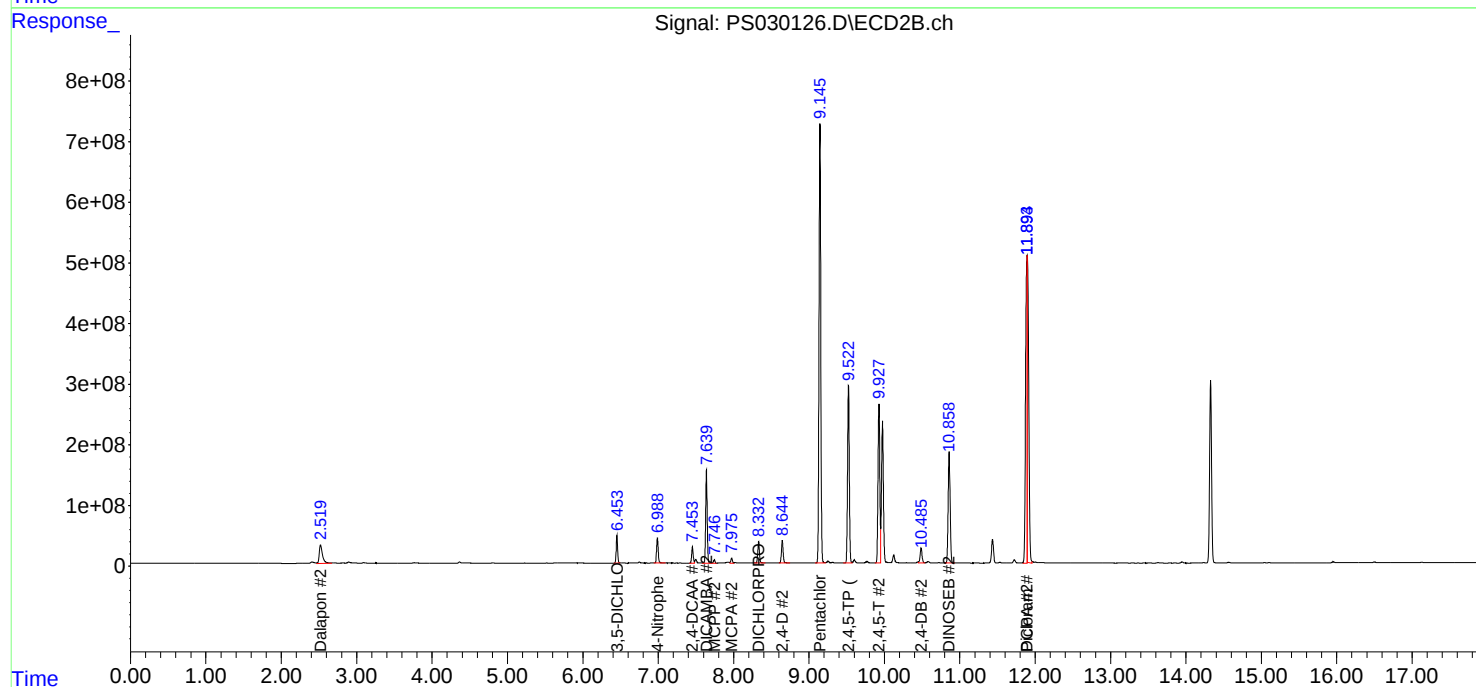
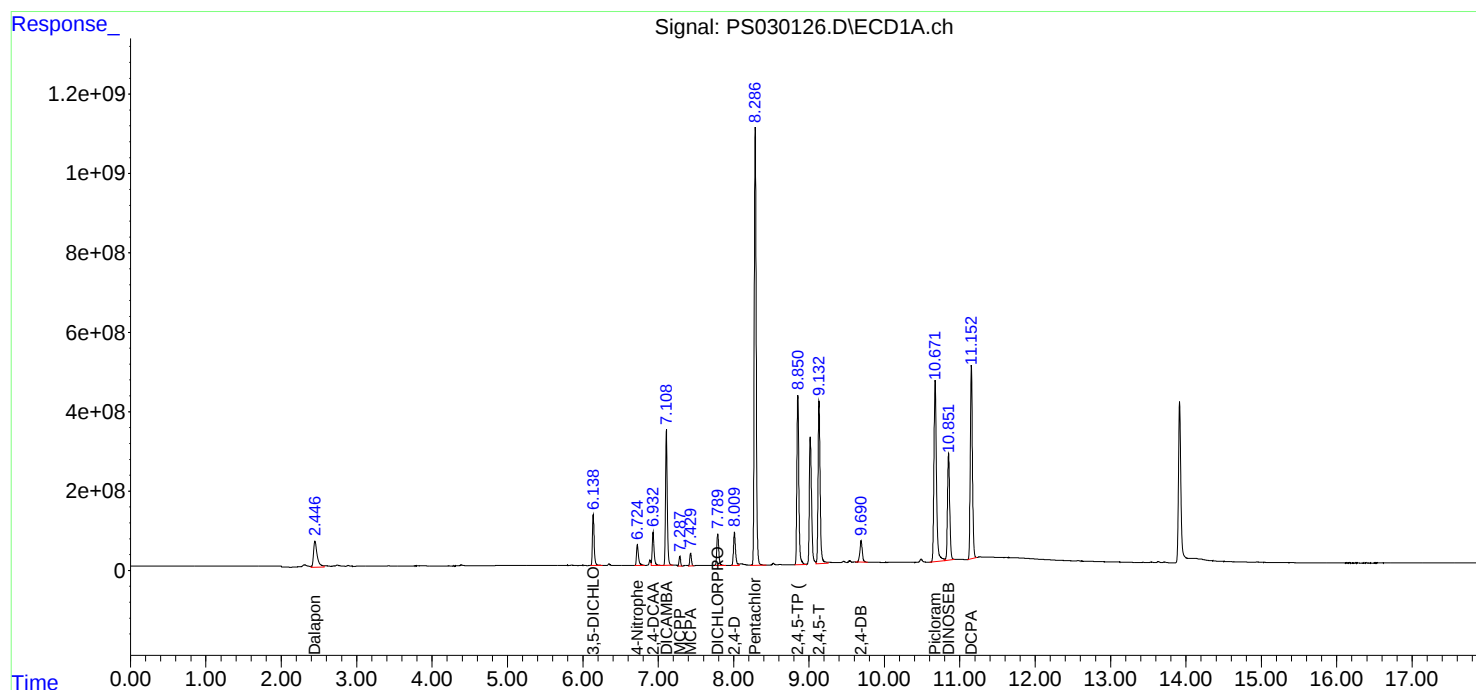
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:47:07 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030127.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 13:18
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:43:33 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:43:14 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.934	7.454	2026.9E6	580.1E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.446	2.520	3133.2E6	1315.1E6	682.500	682.500
2) T	3,5-DICHL...	6.138	6.453	2769.2E6	767.6E6	697.500	697.500
3) T	4-Nitroph...	6.724	6.988	1343.5E6	641.1E6	682.500	682.500
5) T	DICAMBA	7.110	7.639	7854.1E6	3279.2E6	705.000	705.000
6) T	MCPD	7.289	7.747	537.2E6	133.6E6	70.500	70.500
7) T	MCPA	7.431	7.977	712.2E6	183.9E6	69.750	69.750
8) T	DICHLORPROP	7.789	8.332	1955.3E6	804.4E6	705.000	705.000
9) T	2,4-D	8.010	8.644	2194.7E6	879.9E6	705.000	705.000
10) T	Pentachlo...	8.287	9.145	28320.5E6	17364.8E6	712.500	712.500
11) T	2,4,5-TP ...	8.850	9.523	11129.1E6	6909.2E6	712.500	712.500
12) T	2,4,5-T	9.133	9.926	11344.7E6	6442.6E6	712.500	712.500
13) T	2,4-DB	9.689	10.485	1827.1E6	675.8E6	712.500	712.500
14) T	DINOSEB	10.851	10.858	7747.2E6	4702.8E6	705.000	705.000
15) T	Picloram	10.670	11.894	14857.3E6	9721.1E6	712.500	727.171m
16) T	DCPA	11.153	11.893	13839.9E6	10000.3E6	720.000	727.183m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 13:18
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC750

Manual Integrations

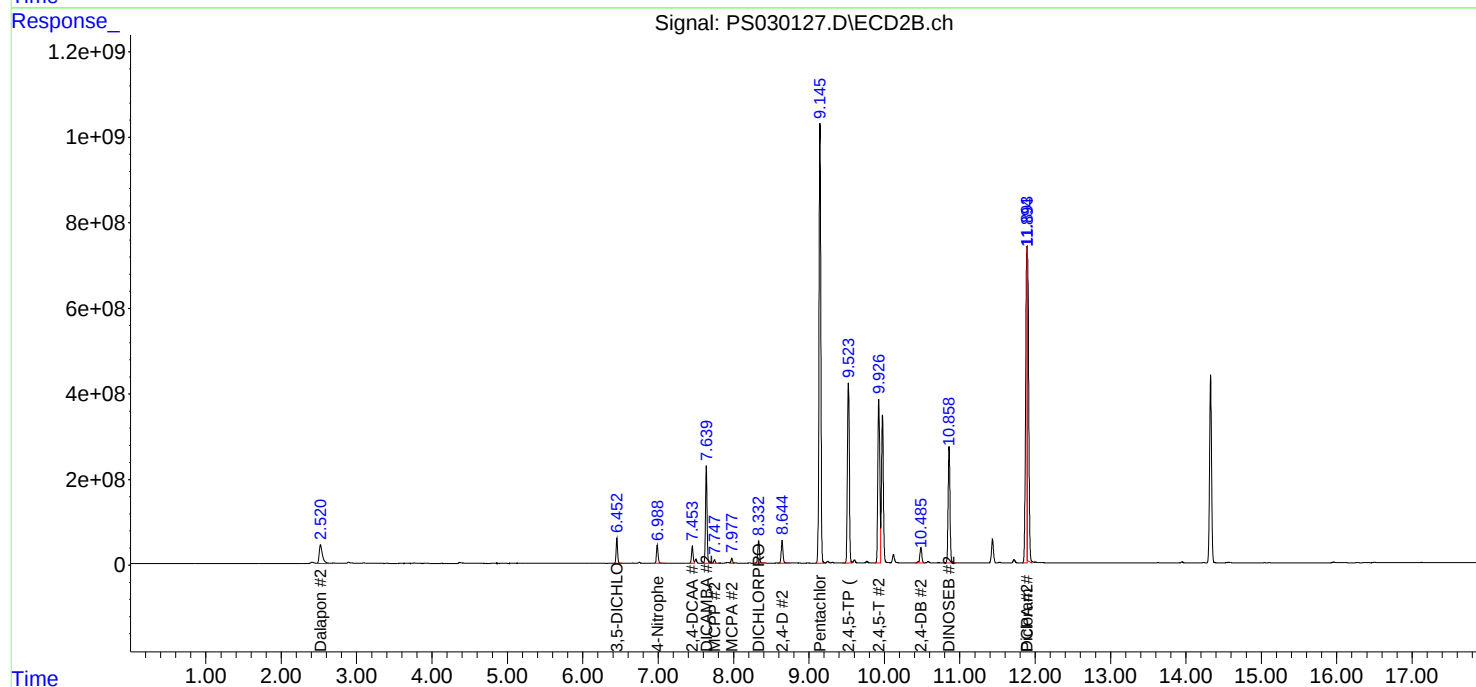
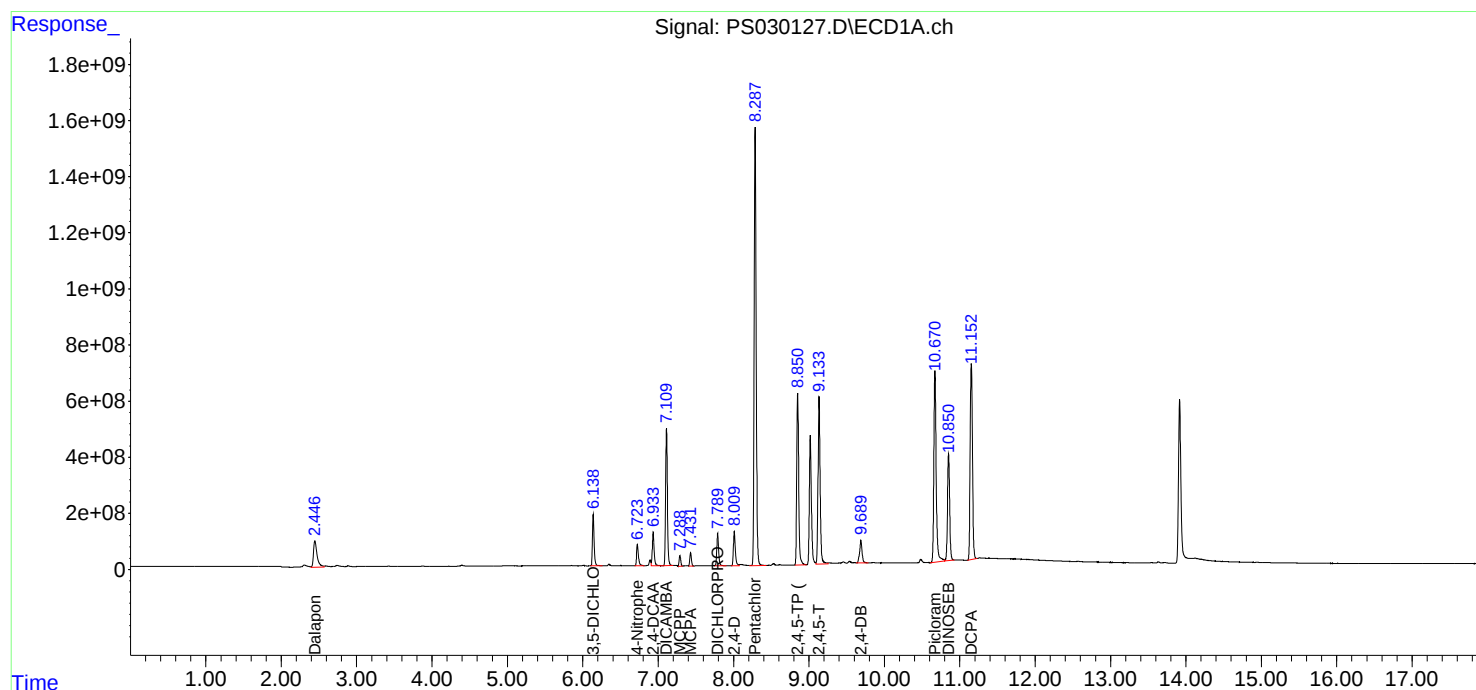
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:43:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:43:14 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030128.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 13:42
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1000

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 13:58:57 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 13:58:36 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.933	7.454	2609.3E6	758.4E6	890.431	932.175
Target Compounds							
1) T	Dalapon	2.446	2.520	4022.0E6	1730.9E6	791.534	834.294
2) T	3,5-DICHL...	6.139	6.453	3590.0E6	1001.6E6	838.061	840.224
3) T	4-Nitroph...	6.724	6.988	1760.4E6	837.7E6	835.965	776.796
5) T	DICAMBA	7.109	7.640	10196.3E6	4357.6E6	863.169	917.597
6) T	MCPD	7.290	7.749	729.6E6	177.4E6	101.601	97.188
7) T	MCPA	7.433	7.979	953.9E6	245.9E6	92.106	92.679
8) T	DICHLORPROP	7.789	8.332	2519.6E6	1045.5E6	839.025	867.706
9) T	2,4-D	8.009	8.645	2834.0E6	1152.4E6	841.649	878.805
10) T	Pentachlo...	8.287	9.145	36236.2E6	22455.0E6	854.920	890.701
11) T	2,4,5-TP ...	8.850	9.523	14372.3E6	9041.8E6	866.151	904.264
12) T	2,4,5-T	9.132	9.927	14592.7E6	8411.9E6	861.090	899.563
13) T	2,4-DB	9.689	10.485	2415.4E6	837.2E6	920.436	826.632
14) T	DINOSEB	10.851	10.859	10000.3E6	6148.3E6	852.655	885.355
15) T	Picloram	10.670	11.894	19519.6E6	13097.0E6	897.581	914.915m
16) T	DCPA	11.152	11.891	17786.8E6	11870.5E6	869.183	851.929m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 13:42
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

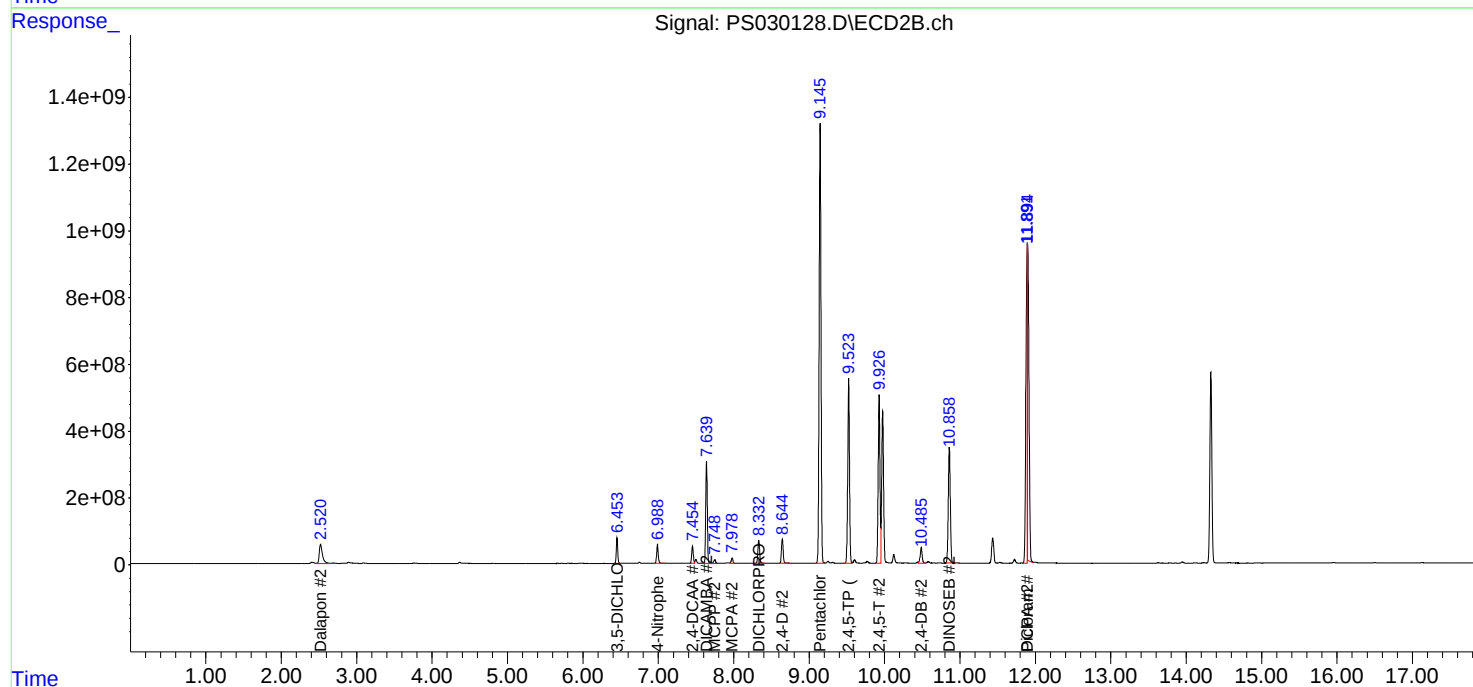
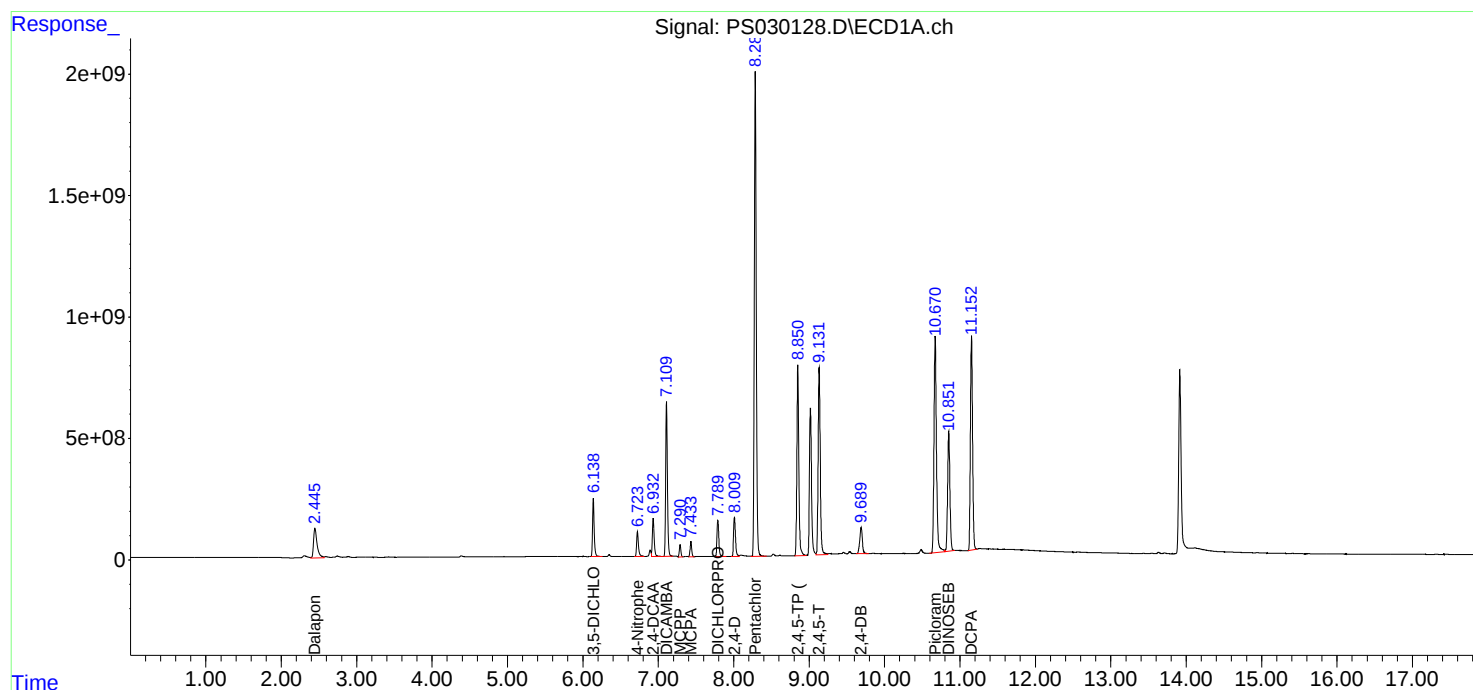
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/13/2025
Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 13:58:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 13:58:36 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030129.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 14:06
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/13/2025
 Supervised By : mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 14:28:15 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:27:56 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.934	7.454	3776.3E6	1120.3E6	1326.050	1400.011
Target Compounds							
1) T	Dalapon	2.446	2.520	5803.8E6	2534.2E6	1180.753	1247.720
2) T	3,5-DICHL...	6.139	6.453	5186.8E6	1479.7E6	1243.675	1269.249
3) T	4-Nitroph...	6.724	6.988	2599.8E6	1237.2E6	1258.609	1184.993
5) T	DICAMBA	7.110	7.640	14856.3E6	6548.0E6	1285.438	1384.953
6) T	MCPD	7.293	7.751	1084.1E6	267.4E6	148.855	145.320
7) T	MCPA	7.437	7.983	1462.0E6	359.0E6	140.839	136.111
8) T	DICHLORPROP	7.789	8.333	3658.8E6	1533.4E6	1252.430	1297.948
9) T	2,4-D	8.009	8.645	4125.7E6	1702.5E6	1258.234	1319.227
10) T	Pentachlo...	8.293	9.145	46970.5E6	32180.6E6	1159.743	1303.651
11) T	2,4,5-TP ...	8.851	9.523	20814.7E6	13189.7E6	1285.177	1338.996
12) T	2,4,5-T	9.133	9.927	21074.1E6	12274.8E6	1276.042	1333.692
13) T	2,4-DB	9.690	10.485	3637.1E6	1297.8E6	1393.631	1307.799
14) T	DINOSEB	10.852	10.859	14478.2E6	8998.7E6	1265.980	1317.150
15) T	Picloram	10.670	11.895	28424.6E6	18755.9E6	1329.063	1314.827m
16) T	DCPA	11.153	11.892	25491.3E6	17567.8E6	1280.231	1314.389m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030129.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 14:06
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

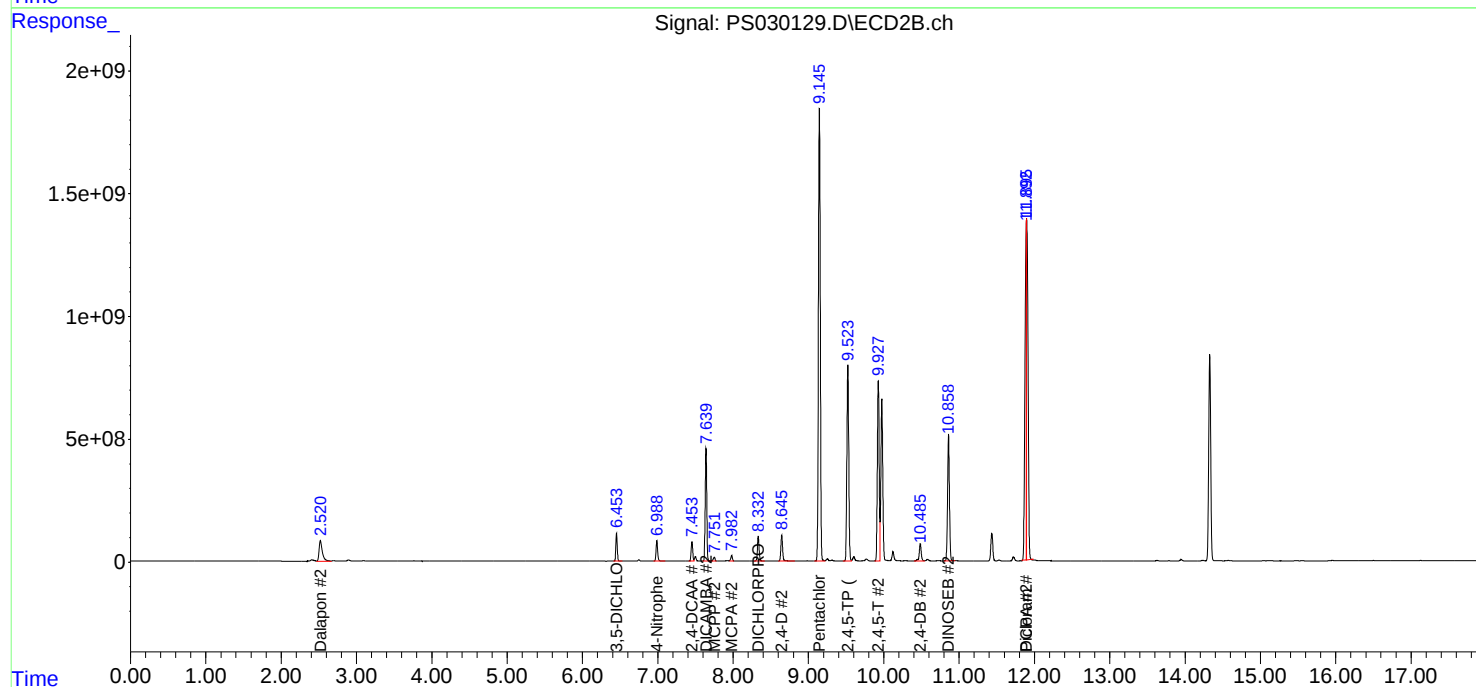
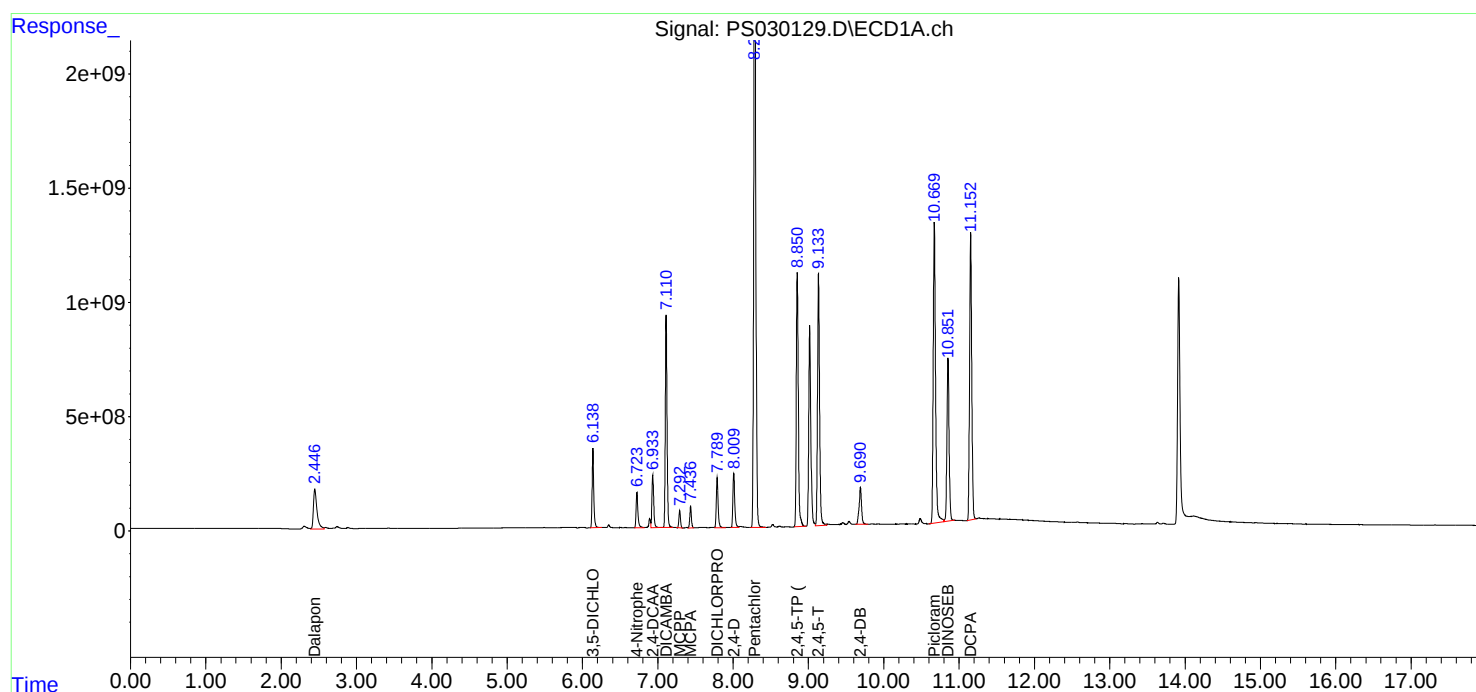
Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/13/2025
Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 14:28:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:27:56 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030130.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 14:30
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS051225

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 15:04:31 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.934	7.454	2000.1E6	576.9E6	702.326	720.970
Target Compounds							
1) T	Dalapon	2.446	2.520	3076.9E6	1314.3E6	625.967	647.108
2) T	3,5-DICHL...	6.139	6.453	2750.7E6	760.8E6	659.557	652.607
3) T	4-Nitroph...	6.724	6.989	1318.9E6	628.7E6	638.507	602.172
5) T	DICAMBA	7.110	7.640	7834.8E6	3263.7E6	677.908	690.298
6) T	MCPD	7.289	7.748	532.7E6	133.5E6	73.145	72.581
7) T	MCPA	7.431	7.978	699.7E6	180.7E6	67.398	68.504
8) T	DICHLORPROP	7.790	8.333	1940.1E6	796.8E6	664.107	674.472
9) T	2,4-D	8.010	8.645	2200.0E6	878.7E6	670.942	680.913
10) T	Pentachlo...	8.287	9.145	28175.2E6	17257.0E6	695.670	699.091
11) T	2,4,5-TP ...	8.851	9.524	11116.5E6	6877.2E6	686.375	698.163
12) T	2,4,5-T	9.133	9.927	11274.6E6	6386.9E6	682.678	693.957
13) T	2,4-DB	9.691	10.486	1842.8E6	635.3E6	706.110	640.157
14) T	DINOSEB	10.851	10.859	7678.7E6	4674.1E6	671.427	684.150
15) T	Picloram	10.671	11.895	14927.7E6	9640.6E6	697.983	685.038m
16) T	DCPA	11.153	11.892	13809.2E6	9287.7E6	693.529	687.439m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030130.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 14:30
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

ICVPS051225

Manual Integrations

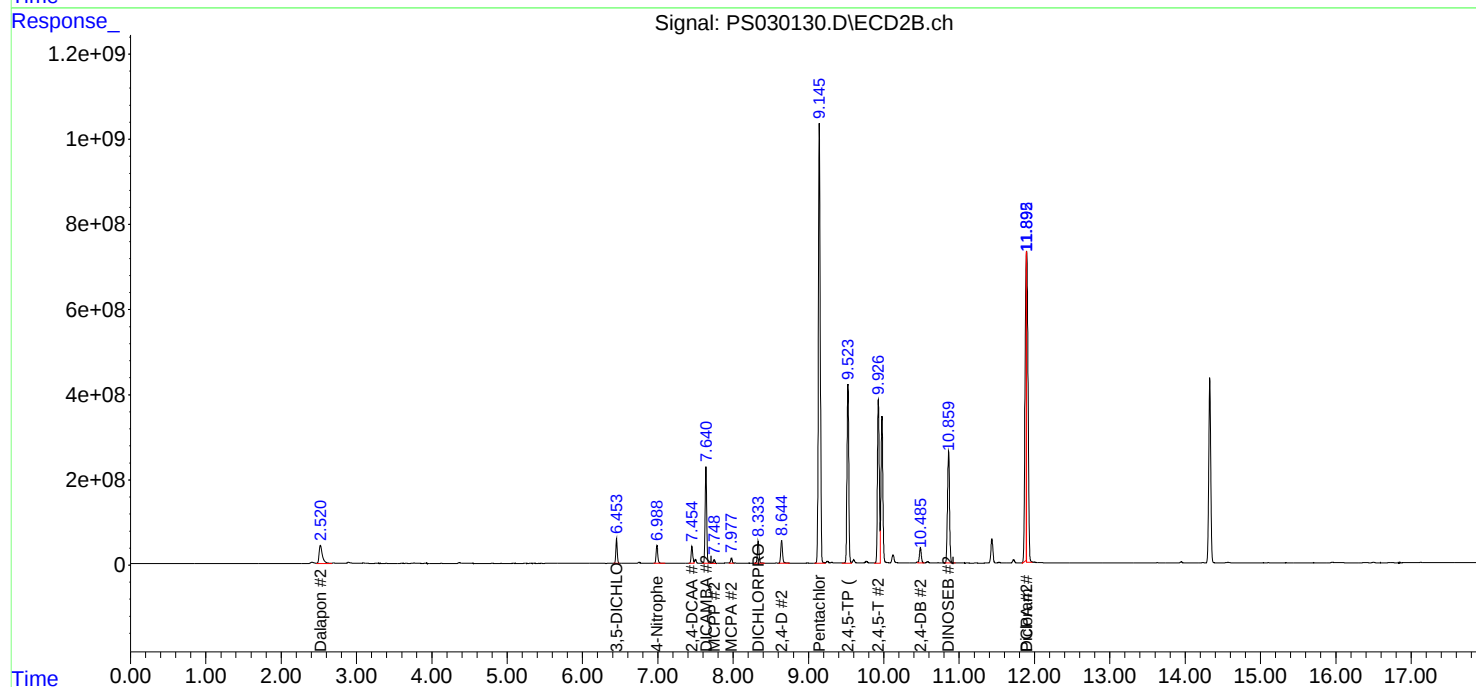
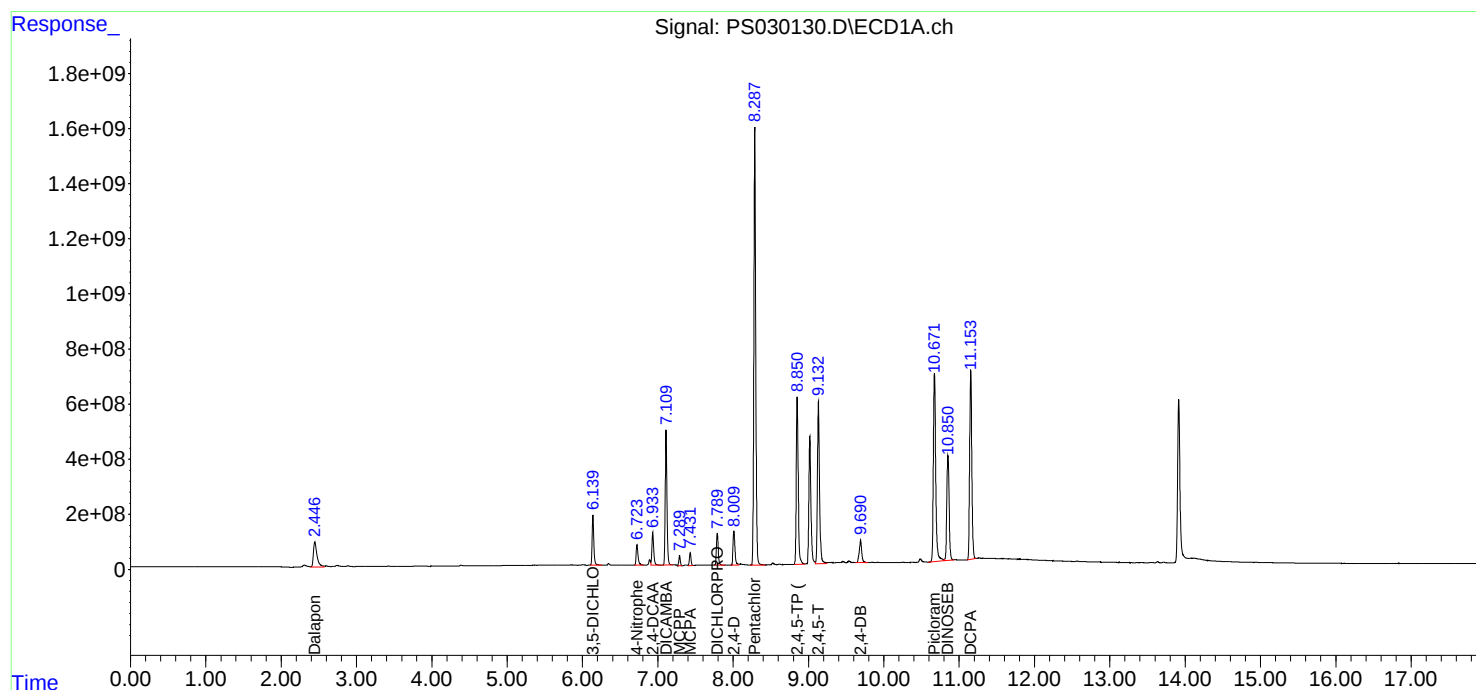
APPROVED

Reviewed By :Abdul Mirza 05/13/2025

Supervised By :mohammad ahmed 05/14/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 15:04:31 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 14:15 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.13	9.13	9.03	9.23	0.00
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 14:15 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL01 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030380.D Time Analyzed: 14:15

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.125	9.033	9.233	713.390	712.500	0.1
2,4,5-TP(Silvex)	8.842	8.750	8.950	723.370	712.500	1.5
2,4-D	8.003	7.910	8.110	698.890	705.000	-0.9
2,4-DB	9.681	9.589	9.789	744.800	712.500	4.5
2,4-DCAA	6.927	6.834	7.034	742.820	750.000	-1.0
DICAMBA	7.103	7.010	7.210	713.160	705.000	1.2
DICHLORPROP	7.783	7.689	7.889	697.750	705.000	-1.0
Dinoseb	10.841	10.751	10.951	680.110	705.000	-3.5



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL01 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030380.D Time Analyzed: 14:15

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.912	9.826	10.026	716.230	712.500	0.5
2,4,5-TP(Silvex)	9.509	9.423	9.623	725.180	712.500	1.8
2,4-D	8.632	8.544	8.744	701.140	705.000	-0.5
2,4-DB	10.470	10.385	10.585	611.550	712.500	-14.2
2,4-DCAA	7.444	7.354	7.554	729.960	750.000	-2.7
DICAMBA	7.629	7.539	7.739	715.670	705.000	1.5
DICHLORPROP	8.320	8.232	8.432	682.800	705.000	-3.1
Dinoseb	10.844	10.758	10.958	691.900	705.000	-1.9

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030380.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 14:15
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/27/2025
 Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 14:33:23 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.927	7.444	2115.4E6	584.1E6	742.816	729.960
Target Compounds							
1) T	Dalapon	2.444	2.516	3290.7E6	1340.4E6	669.466	659.938
2) T	3,5-DICHL...	6.133	6.445	2892.5E6	761.4E6	693.563	653.133
3) T	4-Nitroph...	6.718	6.979	1394.2E6	629.0E6	674.980	602.492
5) T	DICAMBA	7.103	7.629	8242.2E6	3383.7E6	713.157	715.674
6) T	MCPD	7.283	7.737	555.8E6	123.9E6	76.312	67.354
7) T	MCPA	7.426	7.966	733.0E6	172.7E6	70.614	65.466
8) T	DICHLORPROP	7.783	8.320	2038.4E6	806.7E6	697.747	682.803
9) T	2,4-D	8.003	8.632	2291.6E6	904.8E6	698.892	701.142
10) T	Pentachlo...	8.280	9.132	29447.0E6	18078.0E6	727.072	732.348
11) T	2,4,5-TP ...	8.842	9.509	11715.7E6	7143.3E6	723.368m	725.176
12) T	2,4,5-T	9.125	9.912	11781.7E6	6591.9E6	713.386	716.229
13) T	2,4-DB	9.681	10.470	1943.8E6	606.9E6	744.804	611.550m
14) T	DINOSEB	10.841	10.844	7777.9E6	4727.1E6	680.106	691.905
15) T	Picloram	10.662	11.878	15072.4E6	9787.0E6	704.748	695.440m
16) T	DCPA	11.143	11.875	13890.0E6	9480.2E6	697.587	701.691m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030380.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 14:15
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

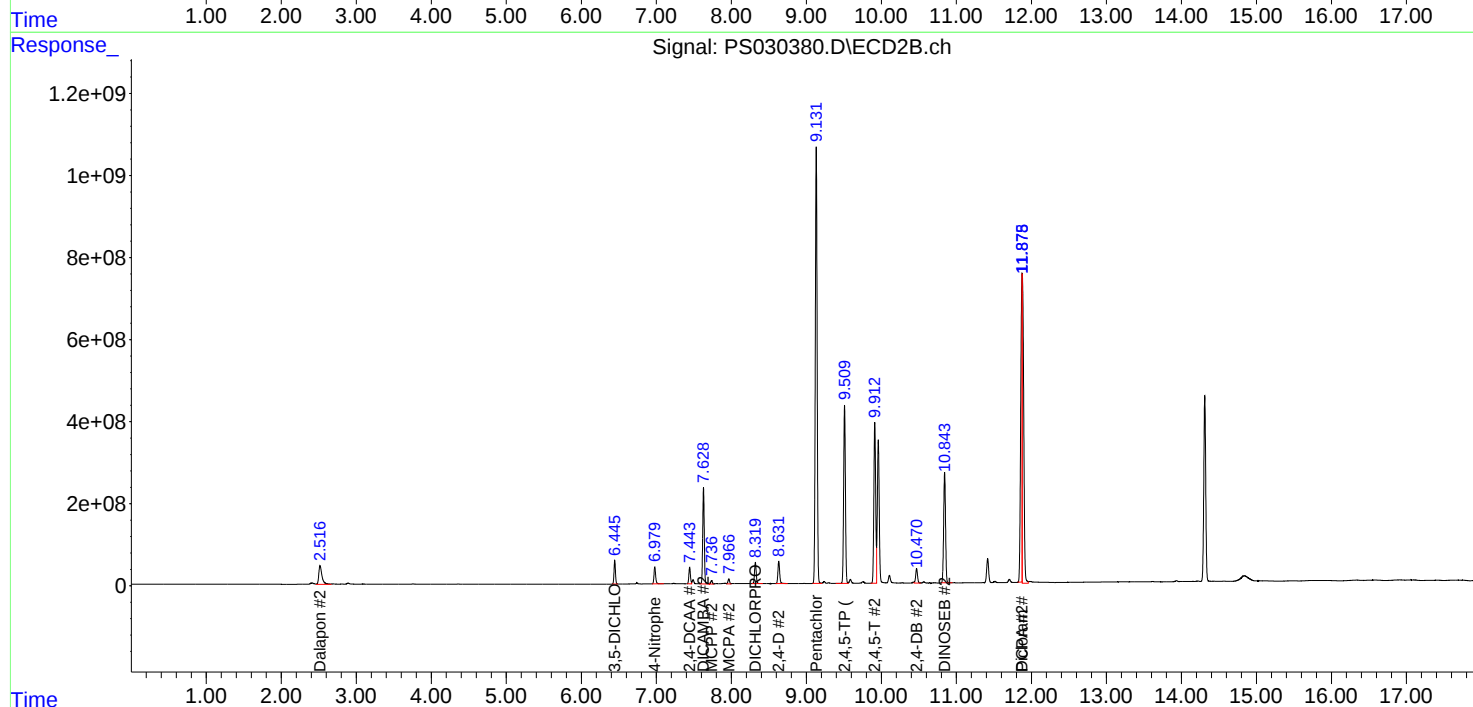
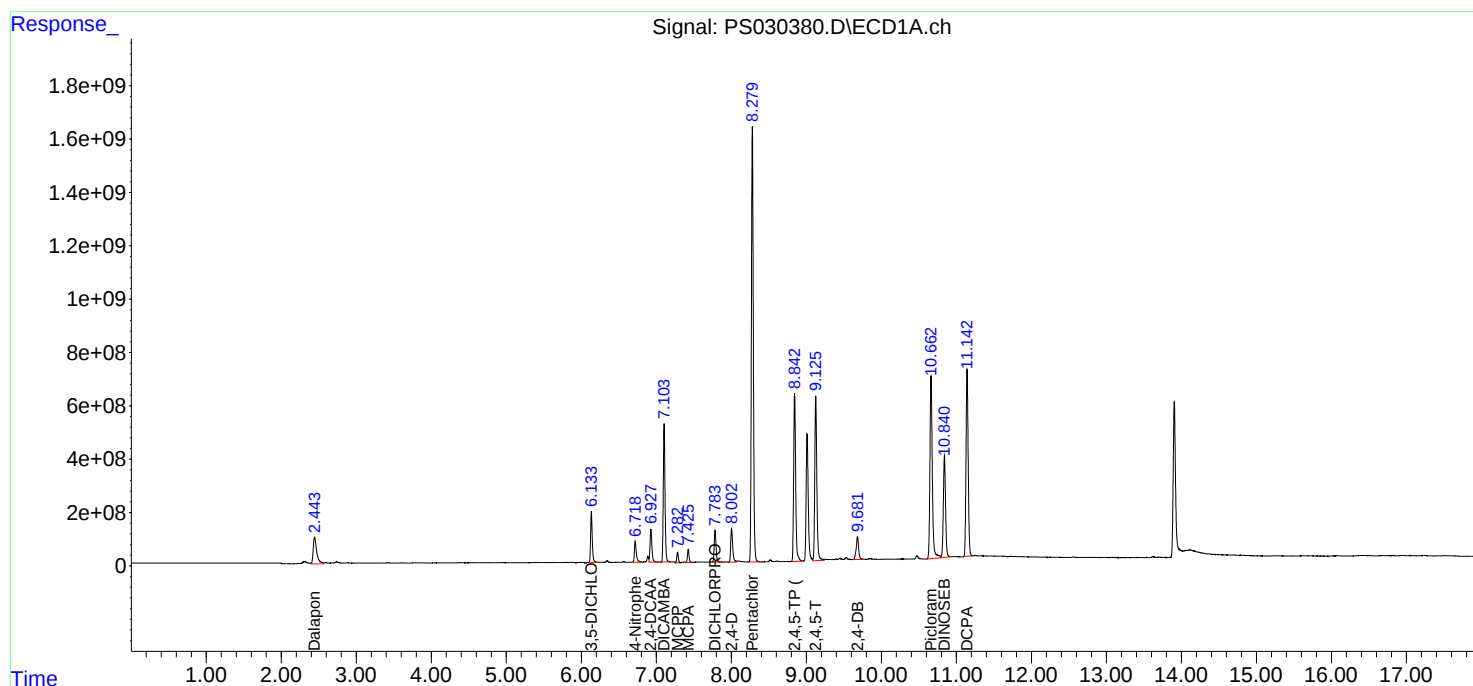
APPROVED

Reviewed By :Abdul Mirza 05/27/2025

Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 14:33:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:52 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/23/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 20:52 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL02 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030392.D Time Analyzed: 20:52

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.124	9.033	9.233	747.780	712.500	5.0
2,4,5-TP(Silvex)	8.842	8.750	8.950	749.620	712.500	5.2
2,4-D	8.003	7.910	8.110	727.740	705.000	3.2
2,4-DB	9.682	9.589	9.789	792.870	712.500	11.3
2,4-DCAA	6.927	6.834	7.034	768.250	750.000	2.4
DICAMBA	7.104	7.010	7.210	732.110	705.000	3.8
DICHLORPROP	7.782	7.689	7.889	723.740	705.000	2.7
Dinoseb	10.841	10.751	10.951	725.530	705.000	2.9



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL02 Date Analyzed: 05/23/2025

Lab Sample No.: HSTDCCC750 Data File : PS030392.D Time Analyzed: 20:52

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.912	9.826	10.026	745.910	712.500	4.7
2,4,5-TP(Silvex)	9.509	9.423	9.623	752.180	712.500	5.6
2,4-D	8.632	8.544	8.744	732.820	705.000	3.9
2,4-DB	10.469	10.385	10.585	645.150	712.500	-9.5
2,4-DCAA	7.444	7.354	7.554	759.110	750.000	1.2
DICAMBA	7.629	7.539	7.739	740.440	705.000	5.0
DICHLORPROP	8.320	8.232	8.432	715.510	705.000	1.5
Dinoseb	10.843	10.758	10.958	722.560	705.000	2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030392.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 20:52
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/27/2025
 Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 22:36:26 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.927	7.444	2187.8E6	607.4E6	768.254	759.108
Target Compounds							
1) T	Dalapon	2.443	2.517	3306.7E6	1356.0E6	672.728	667.635
2) T	3,5-DICHL...	6.133	6.445	2955.1E6	786.2E6	708.563	674.347
3) T	4-Nitroph...	6.718	6.979	1460.1E6	657.7E6	706.860	629.962
5) T	DICAMBA	7.104	7.629	8461.3E6	3500.8E6	732.111	740.441
6) T	MCPD	7.283	7.737	573.3E6	132.1E6	78.725	71.788
7) T	MCPA	7.426	7.966	759.4E6	184.8E6	73.151	70.064
8) T	DICHLORPROP	7.782	8.320	2114.3E6	845.3E6	723.738	715.512
9) T	2,4-D	8.003	8.632	2386.2E6	945.7E6	727.740	732.820
10) T	Pentachlo...	8.280	9.130	30388.2E6	18760.0E6	750.312	759.976
11) T	2,4,5-TP ...	8.842	9.509	12140.8E6	7409.3E6	749.620m	752.185
12) T	2,4,5-T	9.124	9.912	12349.7E6	6865.0E6	747.779	745.908
13) T	2,4-DB	9.682	10.469	2069.2E6	640.2E6	792.868	645.152m
14) T	DINOSEB	10.841	10.843	8297.4E6	4936.5E6	725.526	722.558
15) T	Picloram	10.661	11.877	15964.8E6	10817.1E6	746.472	768.633m
16) T	DCPA	11.143	11.873	14791.5E6	9204.1E6	742.862	681.255m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030392.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 20:52
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

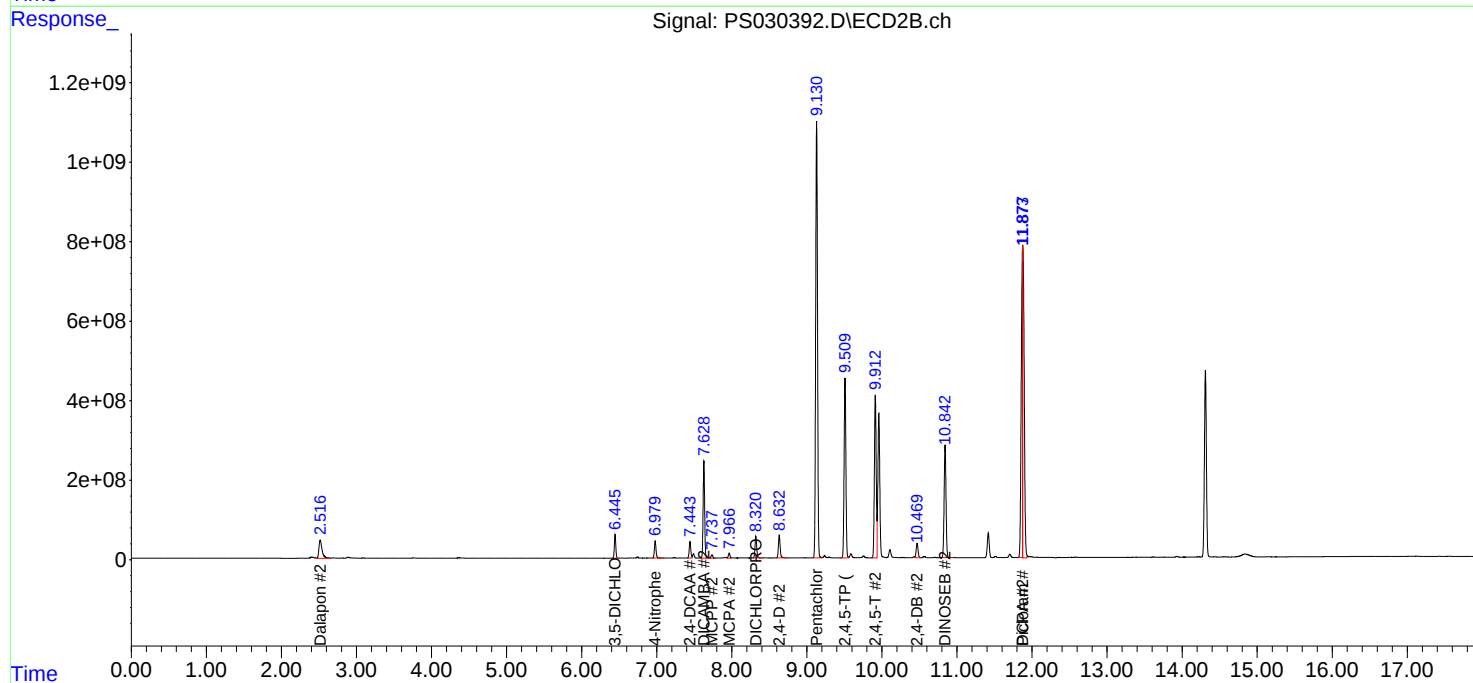
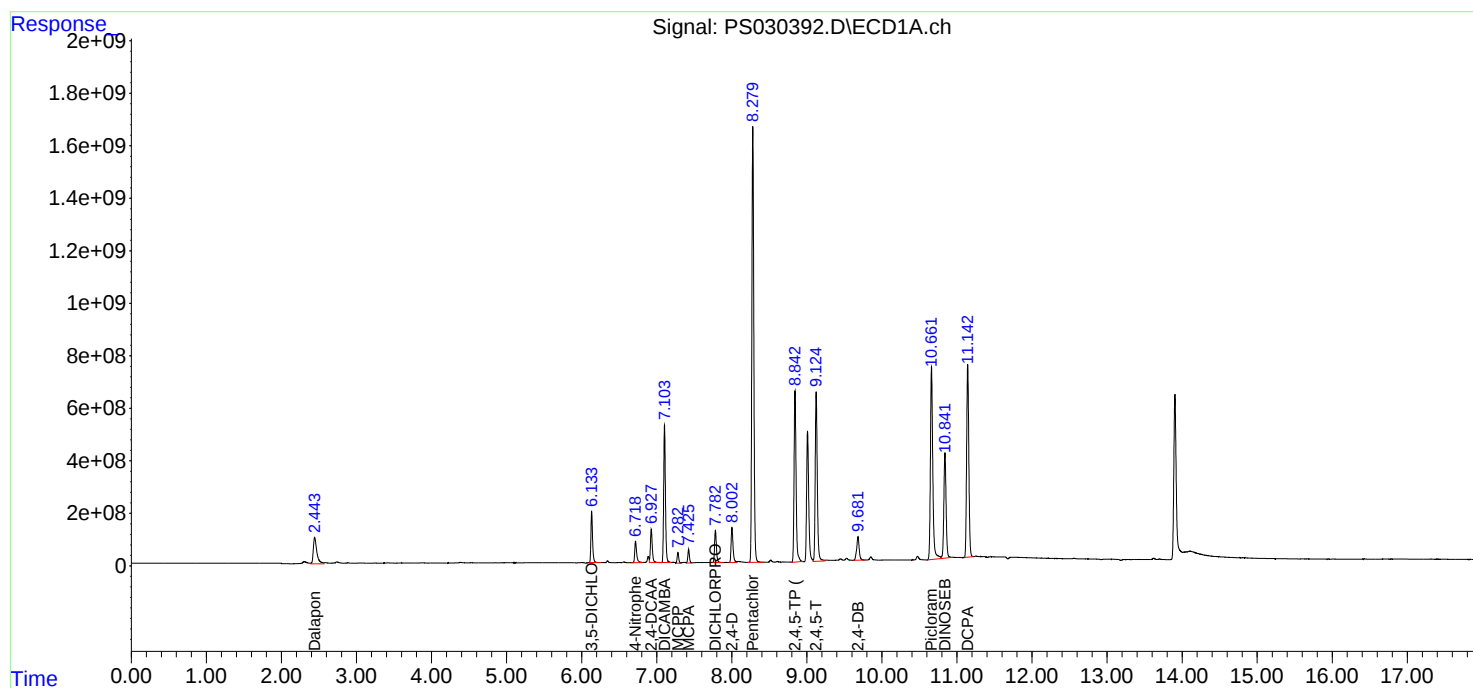
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/27/2025
Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:36:26 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/24/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 02:05 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/24/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 02:05 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL03 Date Analyzed: 05/24/2025

Lab Sample No.: HSTDCCC750 Data File : PS030404.D Time Analyzed: 02:05

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.123	9.033	9.233	735.910	712.500	3.3
2,4,5-TP(Silvex)	8.841	8.750	8.950	735.680	712.500	3.3
2,4-D	8.001	7.910	8.110	721.420	705.000	2.3
2,4-DB	9.680	9.589	9.789	785.390	712.500	10.2
2,4-DCAA	6.926	6.834	7.034	761.020	750.000	1.5
DICAMBA	7.102	7.010	7.210	727.020	705.000	3.1
DICHLORPROP	7.782	7.689	7.889	716.650	705.000	1.7
Dinoseb	10.841	10.751	10.951	709.780	705.000	0.7



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CALIBRATION VERIFICATION SUMMARY
Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/12/2025 05/12/2025
Client Sample No.: CCAL03 **Date Analyzed:** 05/24/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030404.D **Time Analyzed:** 02:05

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.911	9.826	10.026	744.760	712.500	4.5
2,4,5-TP(Silvex)	9.508	9.423	9.623	749.740	712.500	5.2
2,4-D	8.631	8.544	8.744	731.630	705.000	3.8
2,4-DB	10.468	10.385	10.585	644.010	712.500	-9.6
2,4-DCAA	7.443	7.354	7.554	759.720	750.000	1.3
DICAMBA	7.628	7.539	7.739	741.390	705.000	5.2
DICHLORPROP	8.319	8.232	8.432	714.060	705.000	1.3
Dinoseb	10.842	10.758	10.958	723.800	705.000	2.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030404.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 May 2025 02:05
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/27/2025
 Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 24 02:48:02 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.926	7.443	2167.2E6	607.9E6	761.019	759.721
Target Compounds							
1) T	Dalapon	2.443	2.516	3278.1E6	1346.6E6	666.904	663.030
2) T	3,5-DICHL...	6.132	6.444	2950.5E6	790.2E6	707.450	677.782
3) T	4-Nitroph...	6.717	6.978	1456.0E6	660.9E6	704.897	633.065
5) T	DICAMBA	7.102	7.628	8402.5E6	3505.3E6	727.022	741.390
6) T	MCPD	7.282	7.735	567.2E6	130.5E6	77.877	70.937
7) T	MCPA	7.425	7.965	754.0E6	181.6E6	72.634	68.834
8) T	DICHLORPROP	7.782	8.319	2093.6E6	843.6E6	716.647	714.056
9) T	2,4-D	8.001	8.631	2365.5E6	944.2E6	721.425	731.630
10) T	Pentachlo...	8.278	9.130	30099.0E6	18727.9E6	743.172	758.678
11) T	2,4,5-TP ...	8.841	9.508	11915.1E6	7385.2E6	735.683m	749.736
12) T	2,4,5-T	9.123	9.911	12153.7E6	6854.5E6	735.908	744.760
13) T	2,4-DB	9.680	10.468	2049.7E6	639.1E6	785.394	644.009
14) T	DINOSEB	10.841	10.842	8117.3E6	4945.0E6	709.784	723.799
15) T	Picloram	10.660	11.874	15772.8E6	11501.4E6	737.496	817.257m
16) T	DCPA	11.142	11.873	14413.6E6	9823.6E6	723.884	727.111m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030404.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 02:05
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

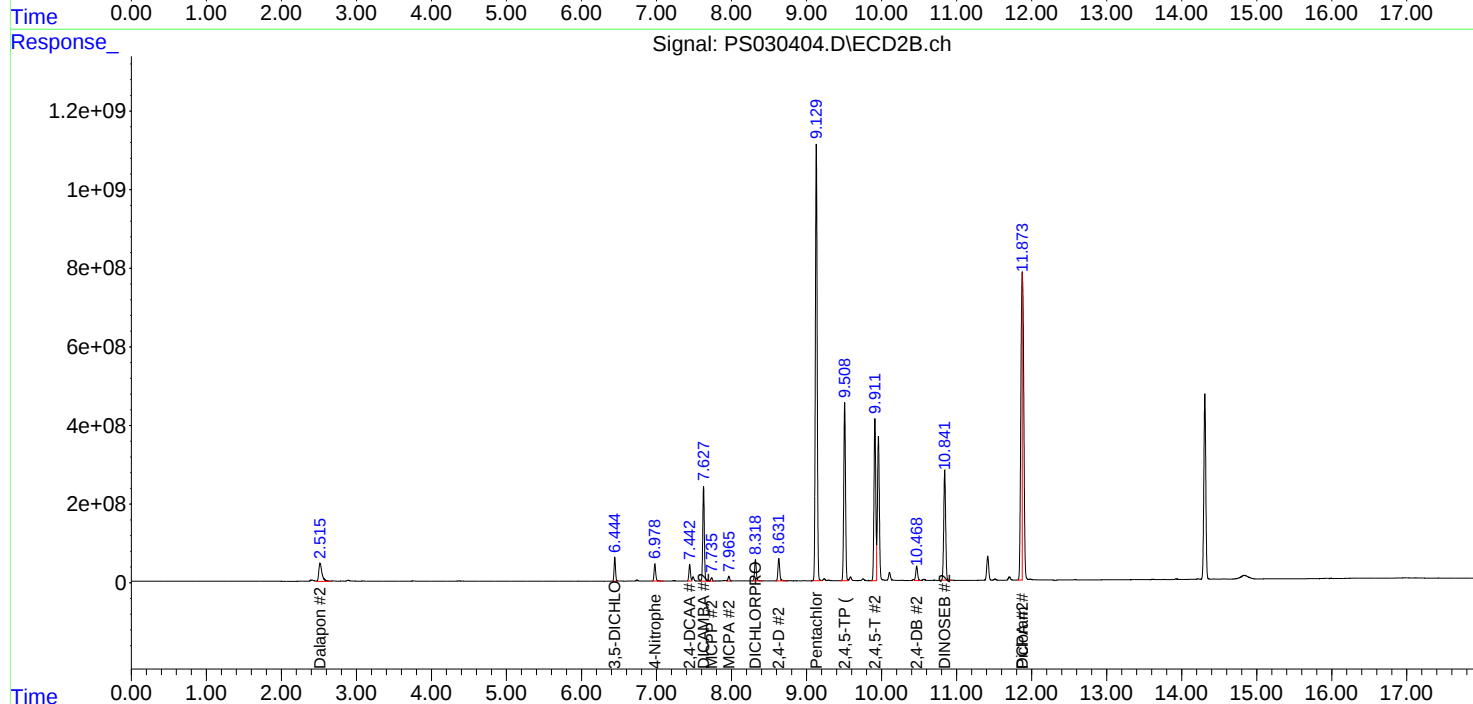
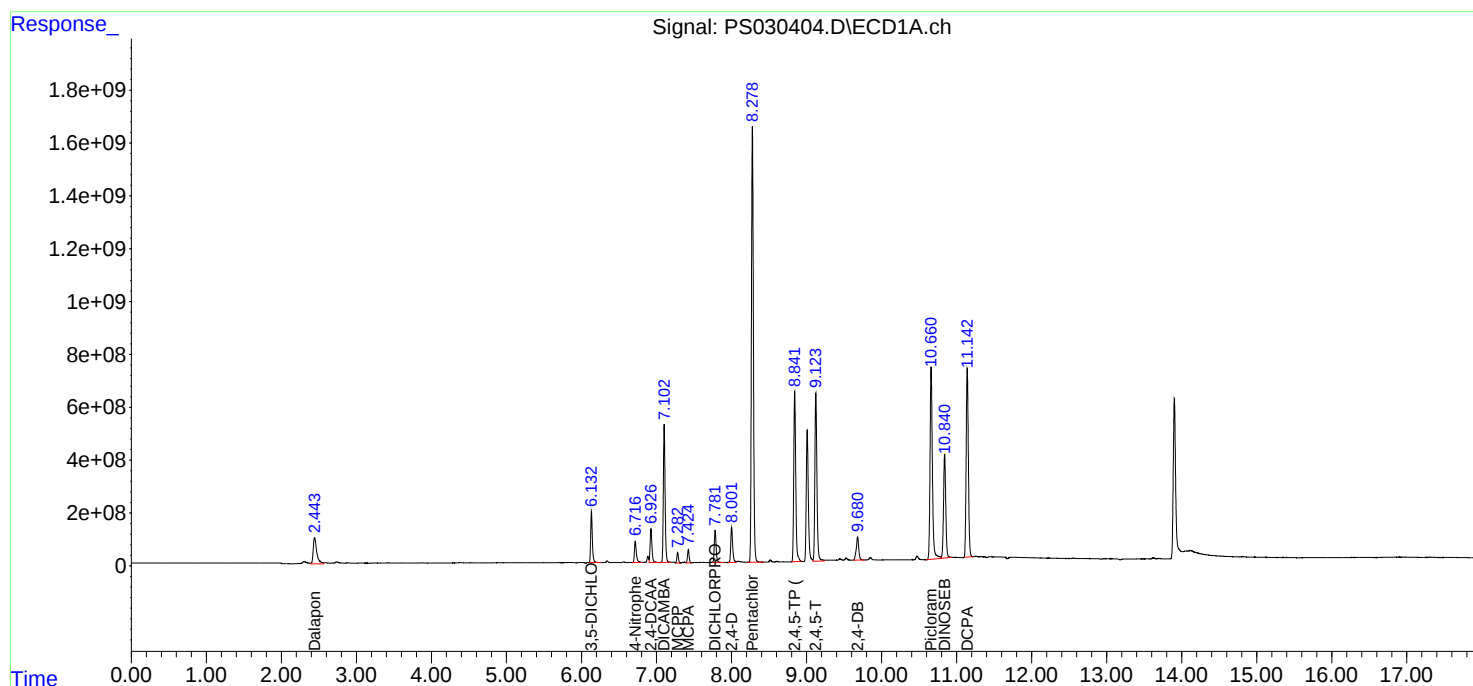
Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/27/2025
Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 02:48:02 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/24/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 04:30 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/24/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 04:30 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL04 Date Analyzed: 05/24/2025

Lab Sample No.: HSTDCCC750 Data File : PS030409.D Time Analyzed: 04:30

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.124	9.033	9.233	744.740	712.500	4.5
2,4,5-TP(Silvex)	8.841	8.750	8.950	744.430	712.500	4.5
2,4-D	8.002	7.910	8.110	724.030	705.000	2.7
2,4-DB	9.681	9.589	9.789	787.600	712.500	10.5
2,4-DCAA	6.926	6.834	7.034	765.020	750.000	2.0
DICAMBA	7.102	7.010	7.210	728.470	705.000	3.3
DICHLORPROP	7.782	7.689	7.889	719.810	705.000	2.1
Dinoseb	10.840	10.751	10.951	722.330	705.000	2.5



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CALIBRATION VERIFICATION SUMMARY
Contract: CAMP02
Lab Code: CHEM **Case No.:** Q2100 **SAS No.:** Q2100 **SDG NO.:** Q2100
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 05/12/2025 05/12/2025
Client Sample No.: CCAL04 **Date Analyzed:** 05/24/2025
Lab Sample No.: HSTDCCC750 **Data File :** PS030409.D **Time Analyzed:** 04:30

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.912	9.826	10.026	744.630	712.500	4.5
2,4,5-TP(Silvex)	9.508	9.423	9.623	752.190	712.500	5.6
2,4-D	8.631	8.544	8.744	730.500	705.000	3.6
2,4-DB	10.468	10.385	10.585	648.610	712.500	-9.0
2,4-DCAA	7.443	7.354	7.554	755.690	750.000	0.8
DICAMBA	7.628	7.539	7.739	738.590	705.000	4.8
DICHLORPROP	8.319	8.232	8.432	717.680	705.000	1.8
Dinoseb	10.842	10.758	10.958	726.080	705.000	3.0

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030409.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 May 2025 04:30
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/27/2025
 Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 24 05:02:28 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.926	7.443	2178.6E6	604.7E6	765.024	755.688
Target Compounds							
1) T	Dalapon	2.443	2.516	3280.5E6	1348.2E6	667.407	663.804
2) T	3,5-DICHL...	6.133	6.445	2958.4E6	788.4E6	709.360	676.219
3) T	4-Nitroph...	6.717	6.978	1457.1E6	659.9E6	705.384	632.091
5) T	DICAMBA	7.102	7.628	8419.2E6	3492.1E6	728.468	738.593
6) T	MCPD	7.282	7.736	570.8E6	129.2E6	78.374	70.234
7) T	MCPA	7.424	7.966	755.4E6	179.0E6	72.771	67.868
8) T	DICHLORPROP	7.782	8.319	2102.8E6	847.9E6	719.813	717.677
9) T	2,4-D	8.002	8.631	2374.0E6	942.7E6	724.027	730.499
10) T	Pentachlo...	8.279	9.130	30321.7E6	18780.7E6	748.669	760.817
11) T	2,4,5-TP ...	8.841	9.508	12056.7E6	7409.4E6	744.428m	752.186
12) T	2,4,5-T	9.124	9.912	12299.5E6	6853.2E6	744.738	744.626
13) T	2,4-DB	9.681	10.468	2055.5E6	643.7E6	787.600	648.606
14) T	DINOSEB	10.840	10.842	8260.8E6	4960.6E6	722.325	726.081
15) T	Picloram	10.661	11.876	15870.3E6	10054.2E6	742.056	714.423m
16) T	DCPA	11.142	11.873	14629.5E6	9615.9E6	734.727	711.735m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 04:30
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

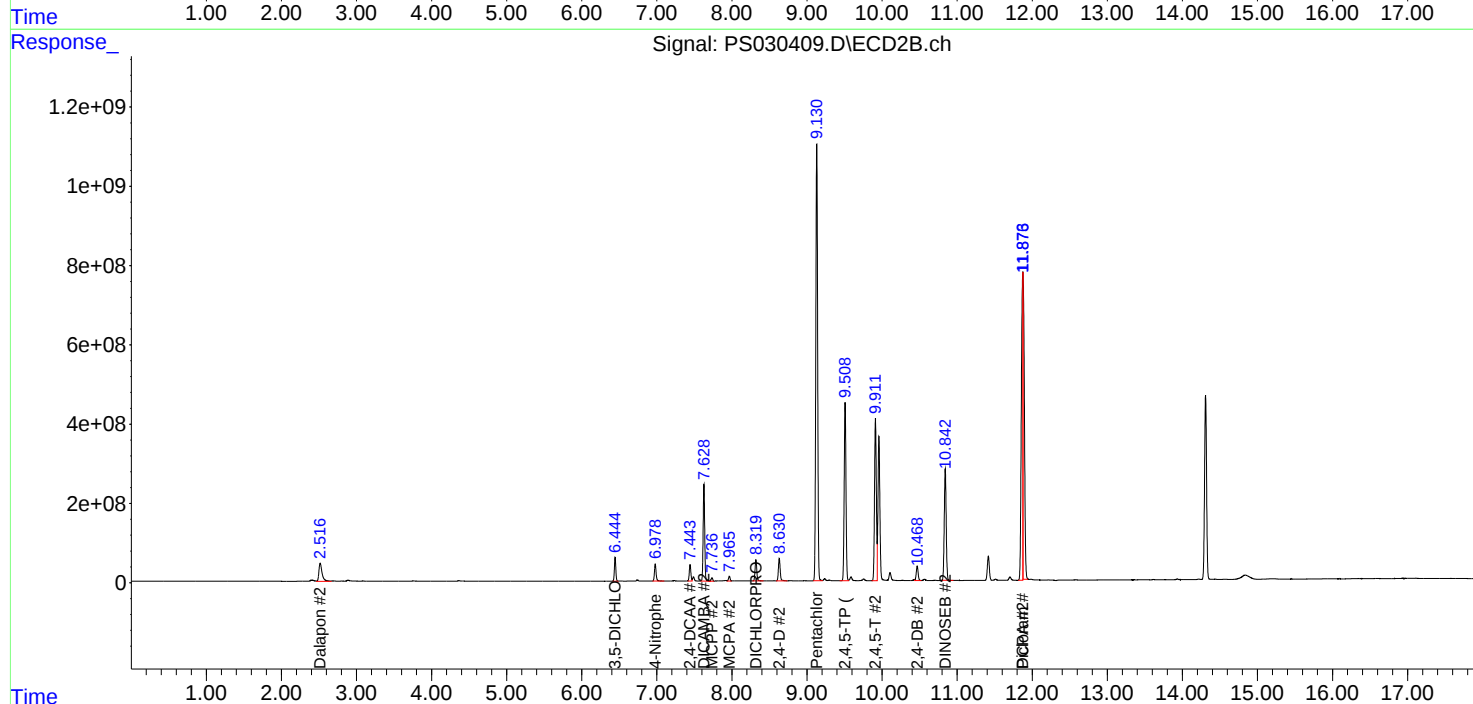
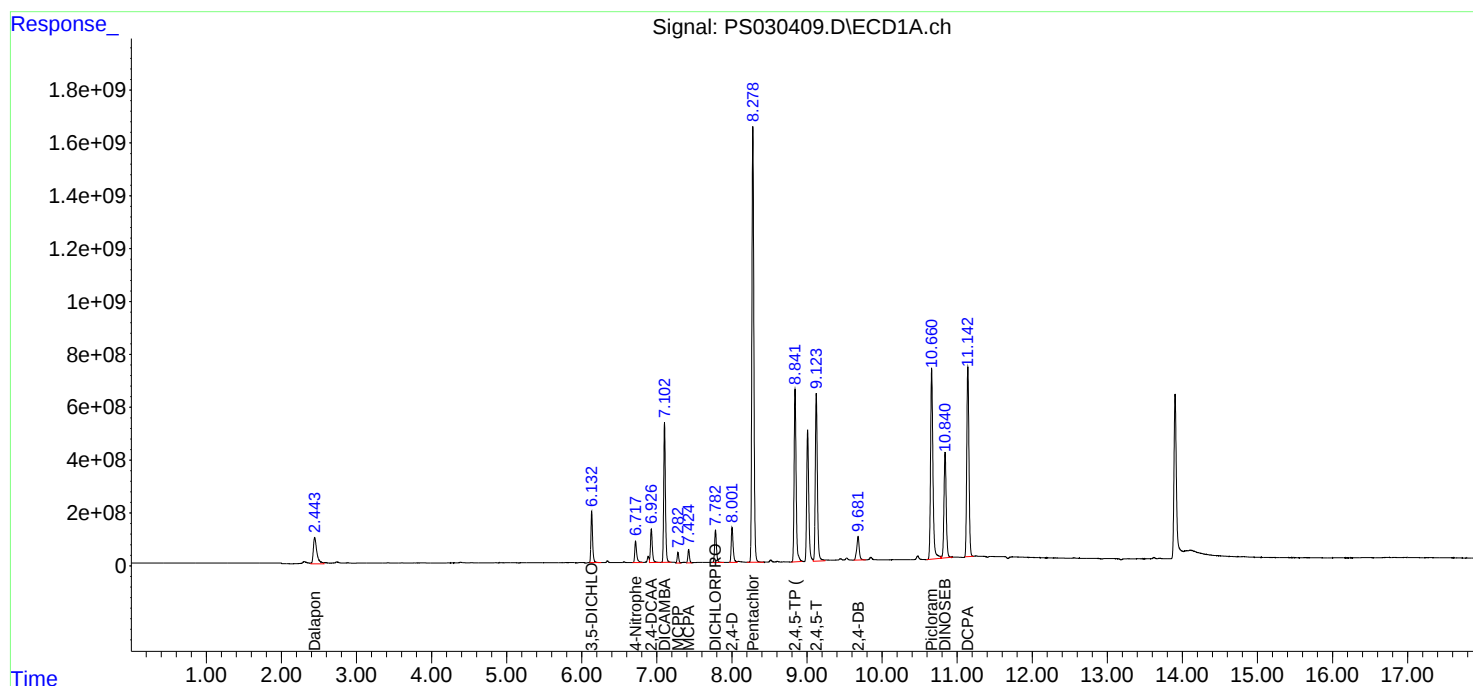
APPROVED

Reviewed By :Abdul Mirza 05/27/2025

Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 05:02:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/29/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 09:29 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.92	6.93	6.83	7.03	0.01
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/29/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 09:29 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.50	9.52	9.42	9.62	0.02
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL05 Date Analyzed: 05/29/2025

Lab Sample No.: HSTDCCC750 Data File : PS030427.D Time Analyzed: 09:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.121	9.033	9.233	707.790	712.500	-0.7
2,4,5-TP(Silvex)	8.839	8.750	8.950	715.020	712.500	0.4
2,4-D	7.999	7.910	8.110	694.600	705.000	-1.5
2,4-DB	9.678	9.589	9.789	753.420	712.500	5.7
2,4-DCAA	6.924	6.834	7.034	731.220	750.000	-2.5
DICAMBA	7.101	7.010	7.210	703.340	705.000	-0.2
DICHLORPROP	7.780	7.689	7.889	685.990	705.000	-2.7
Dinoseb	10.837	10.751	10.951	678.950	705.000	-3.7



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CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL05 Date Analyzed: 05/29/2025

Lab Sample No.: HSTDCCC750 Data File : PS030427.D Time Analyzed: 09:29

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.908	9.826	10.026	699.550	712.500	-1.8
2,4,5-TP(Silvex)	9.504	9.423	9.623	713.420	712.500	0.1
2,4-D	8.628	8.544	8.744	685.410	705.000	-2.8
2,4-DB	10.465	10.385	10.585	622.520	712.500	-12.6
2,4-DCAA	7.440	7.354	7.554	698.290	750.000	-6.9
DICAMBA	7.625	7.539	7.739	696.340	705.000	-1.2
DICHLORPROP	8.316	8.232	8.432	664.380	705.000	-5.8
Dinoseb	10.837	10.758	10.958	673.270	705.000	-4.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
 Data File : PS030427.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 May 2025 09:29
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/30/2025
 Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 29 23:26:50 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.924	7.440	2082.4E6	558.8E6	731.223	698.289
Target Compounds							
1) T	Dalapon	2.442	2.515	3286.0E6	1298.6E6	668.521	639.364
2) T	3,5-DICHL...	6.131	6.442	2832.2E6	743.8E6	679.093	638.032
3) T	4-Nitroph...	6.715	6.976	1402.3E6	660.3E6	678.900	632.493
5) T	DICAMBA	7.101	7.625	8128.8E6	3292.3E6	703.343	696.341
6) T	MCPD	7.280	7.733	492.5E6	119.2E6	67.620	64.787
7) T	MCPA	7.423	7.962	713.9E6	170.3E6	68.773	64.577
8) T	DICHLORPROP	7.780	8.316	2004.0E6	784.9E6	685.993	664.378
9) T	2,4-D	7.999	8.628	2277.5E6	884.5E6	694.599	685.410
10) T	Pentachlo...	8.276	9.126	29099.5E6	17913.4E6	718.492	725.681
11) T	2,4,5-TP ...	8.839	9.504	11580.5E6	7027.5E6	715.021m	713.418
12) T	2,4,5-T	9.121	9.908	11689.3E6	6438.4E6	707.790	699.549
13) T	2,4-DB	9.678	10.465	1966.3E6	617.8E6	753.422	622.525
14) T	DINOSEB	10.837	10.837	7764.7E6	4599.7E6	678.948	673.266m
15) T	Picloram	10.658	11.870	15384.6E6	10587.3E6	719.346	752.308m
16) T	DCPA	11.138	11.868	13834.2E6	8970.0E6	694.783m	663.926m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030427.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 09:29
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

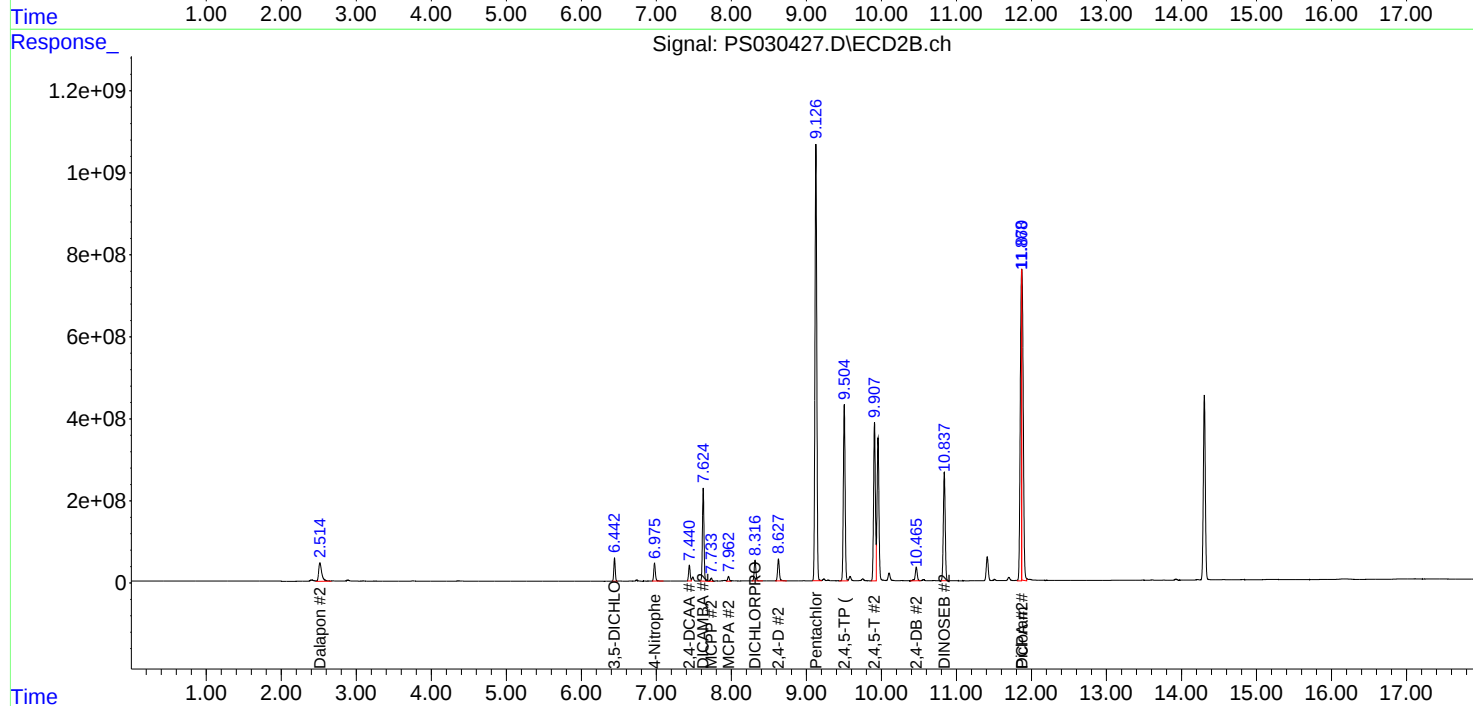
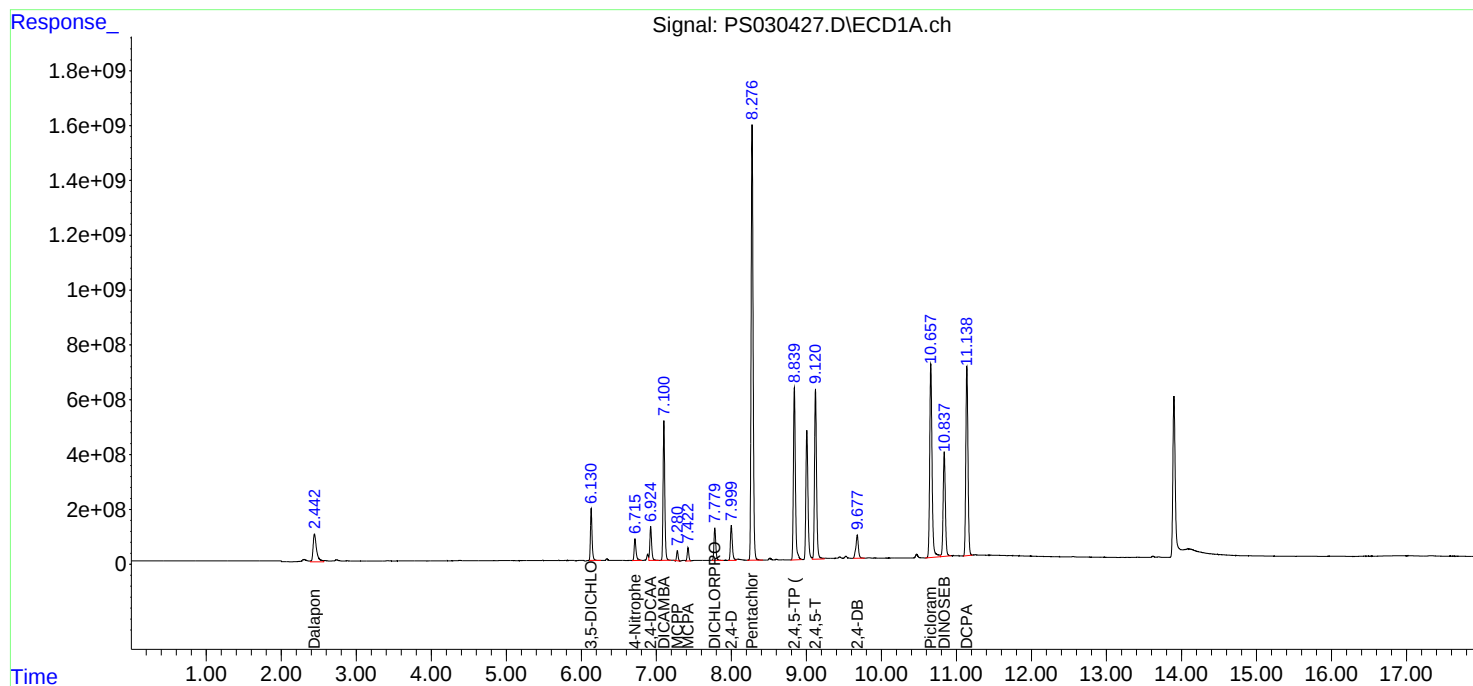
APPROVED

Reviewed By :Abdul Mirza 05/30/2025

Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:26:50 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/29/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 16:37 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.10	7.11	7.01	7.21	0.01
2,4-DCAA	6.93	6.93	6.83	7.03	0.00
DICHLORPROP	7.78	7.79	7.69	7.89	0.01
2,4-D	8.00	8.01	7.91	8.11	0.01
2,4,5-TP(Silvex)	8.84	8.85	8.75	8.95	0.01
2,4,5-T	9.12	9.13	9.03	9.23	0.01
2,4-DB	9.68	9.69	9.59	9.79	0.01
Dinoseb	10.84	10.85	10.75	10.95	0.01



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

Continuing Calib Date: 05/29/2025 Initial Calibration Date(s): 05/12/2025 05/12/2025

Continuing Calib Time: 16:37 Initial Calibration Time(s): 12:30 14:06

GC Column: RTX-CLP2 ID: 0.32 (mm)

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.63	7.64	7.54	7.74	0.01
2,4-DCAA	7.44	7.45	7.35	7.55	0.01
DICHLORPROP	8.32	8.33	8.23	8.43	0.01
2,4-D	8.63	8.64	8.54	8.74	0.01
2,4,5-TP(Silvex)	9.51	9.52	9.42	9.62	0.01
2,4,5-T	9.91	9.93	9.83	10.03	0.02
2,4-DB	10.47	10.49	10.39	10.59	0.02
Dinoseb	10.84	10.86	10.76	10.96	0.02



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL06 Date Analyzed: 05/29/2025

Lab Sample No.: HSTDCCC750 Data File : PS030434.D Time Analyzed: 16:37

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	9.122	9.033	9.233	726.650	712.500	2.0
2,4,5-TP(Silvex)	8.840	8.750	8.950	730.580	712.500	2.5
2,4-D	8.000	7.910	8.110	706.920	705.000	0.3
2,4-DB	9.679	9.589	9.789	771.790	712.500	8.3
2,4-DCAA	6.925	6.834	7.034	742.200	750.000	-1.0
DICAMBA	7.101	7.010	7.210	713.300	705.000	1.2
DICHLORPROP	7.780	7.689	7.889	699.930	705.000	-0.7
Dinoseb	10.839	10.751	10.951	707.390	705.000	0.3



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: CAMP02

Lab Code: CHEM Case No.: Q2100 SAS No.: Q2100 SDG NO.: Q2100

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 05/12/2025 05/12/2025

Client Sample No.: CCAL06 Date Analyzed: 05/29/2025

Lab Sample No.: HSTDCCC750 Data File : PS030434.D Time Analyzed: 16:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.908	9.826	10.026	711.790	712.500	-0.1
2,4,5-TP(Silvex)	9.505	9.423	9.623	722.010	712.500	1.3
2,4-D	8.629	8.544	8.744	695.450	705.000	-1.4
2,4-DB	10.466	10.385	10.585	606.820	712.500	-14.8
2,4-DCAA	7.442	7.354	7.554	710.890	750.000	-5.2
DICAMBA	7.626	7.539	7.739	702.680	705.000	-0.3
DICHLORPROP	8.317	8.232	8.432	672.940	705.000	-4.5
Dinoseb	10.839	10.758	10.958	704.100	705.000	-0.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
 Data File : PS030434.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 May 2025 16:37
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/30/2025
 Supervised By : mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 29 23:28:18 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.925	7.442	2113.6E6	568.9E6	742.198	710.889
Target Compounds							
1) T	Dalapon	2.442	2.515	3302.2E6	1309.7E6	671.811	644.861
2) T	3,5-DICHL...	6.131	6.444	2881.5E6	746.5E6	690.905	640.358
3) T	4-Nitroph...	6.716	6.977	1422.6E6	666.4E6	688.693	638.284
5) T	DICAMBA	7.101	7.626	8243.9E6	3322.3E6	713.302	702.682
6) T	MCPD	7.281	7.735	553.3E6	121.5E6	75.969	66.049
7) T	MCPA	7.423	7.964	727.2E6	169.9E6	70.053	64.418
8) T	DICHLORPROP	7.780	8.317	2044.7E6	795.0E6	699.931	672.936
9) T	2,4-D	8.000	8.629	2318.0E6	897.5E6	706.924	695.446
10) T	Pentachlo...	8.277	9.128	29651.0E6	18084.1E6	732.110	732.596
11) T	2,4,5-TP ...	8.840	9.505	11832.4E6	7112.1E6	730.577m	722.005
12) T	2,4,5-T	9.122	9.908	12000.8E6	6551.0E6	726.652	711.788
13) T	2,4-DB	9.679	10.466	2014.2E6	602.2E6	771.795	606.825
14) T	DINOSEB	10.839	10.839	8089.9E6	4810.4E6	707.385	704.100m
15) T	Picloram	10.659	11.871	15581.6E6	10595.6E6	728.556	752.894m
16) T	DCPA	11.140	11.869	14321.5E6	9364.1E6	719.258	693.098m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030434.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 16:37
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

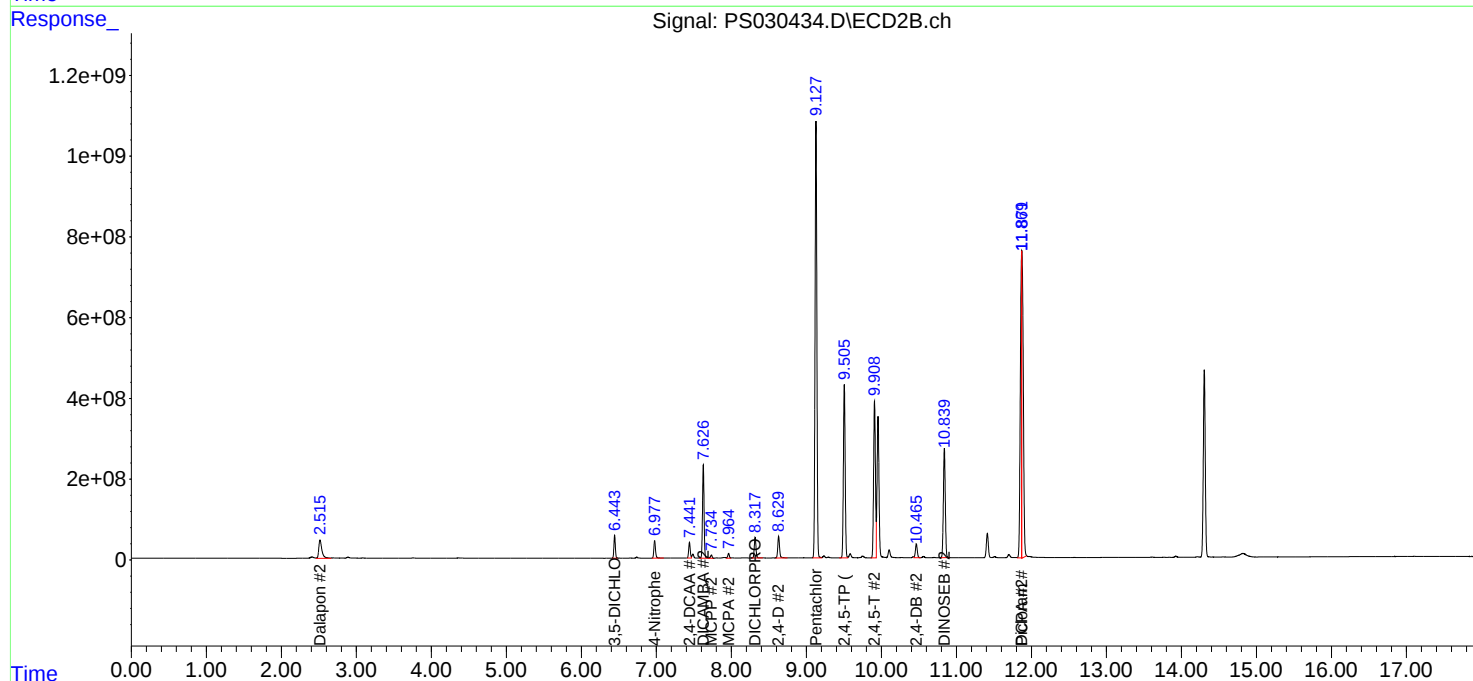
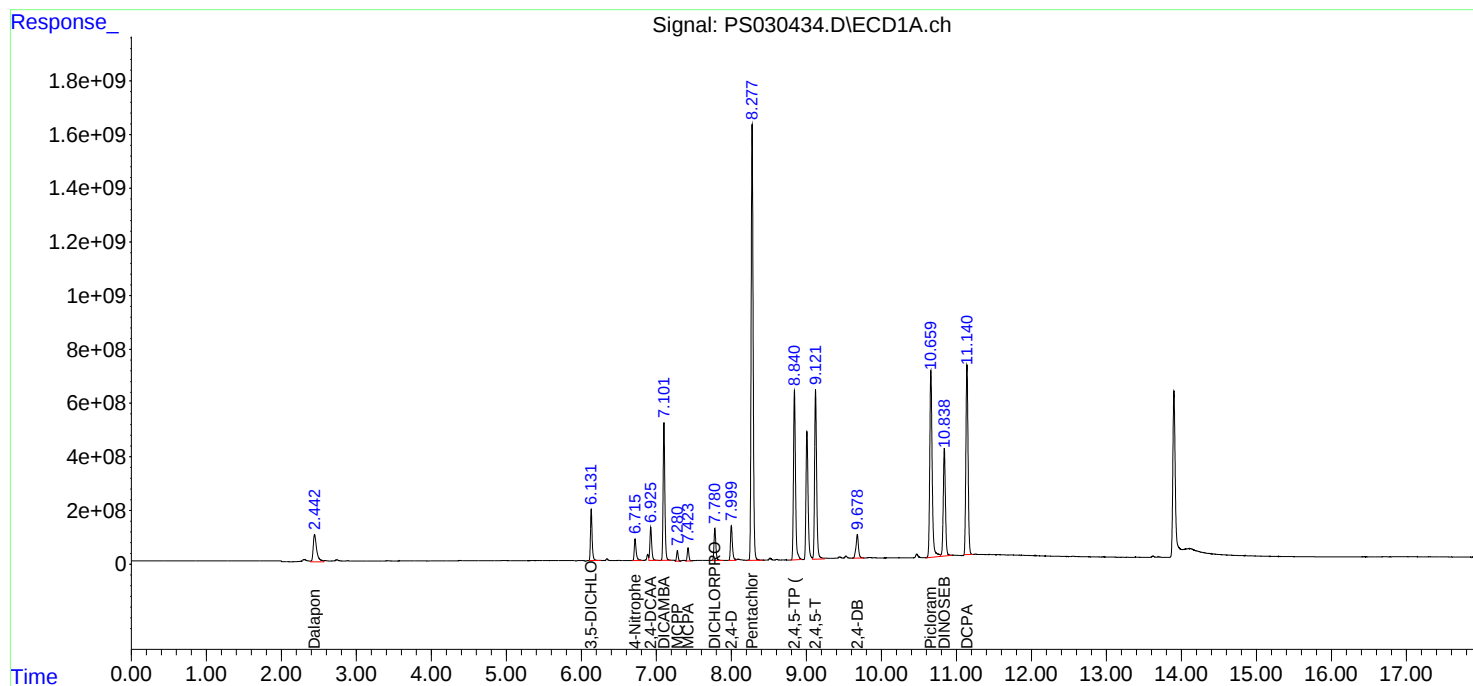
APPROVED

Reviewed By :Abdul Mirza 05/30/2025

Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:28:18 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Analytical Sequence

Client: CDM Smith	SDG No.: Q2100
Project: South River WM Replacement	Instrument ID: ECD_S
GC Column: RTX-CLP	ID: 0.32 (mm) Inst. Calib. Date(s): 05/12/2025 05/12/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	05/12/2025	12:06	PS030124.D	6.93	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	6.93	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	6.93	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	6.93	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	6.93	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	6.93	0.00
IBLK	IBLK	05/23/2025	13:51	PS030379.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	14:15	PS030380.D	6.93	0.00
PB168137BL	PB168137BL	05/23/2025	16:28	PS030381.D	6.93	0.00
PB168137BS	PB168137BS	05/23/2025	16:52	PS030382.D	6.93	0.00
IBLK	IBLK	05/23/2025	20:28	PS030391.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	20:52	PS030392.D	6.93	0.00
TP-16	Q2100-01	05/23/2025	23:41	PS030398.D	6.93	0.00
TP-22	Q2100-02	05/24/2025	00:05	PS030399.D	6.93	0.00
TP-21	Q2100-03	05/24/2025	00:29	PS030400.D	6.93	0.00
IBLK	IBLK	05/24/2025	01:41	PS030403.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	02:05	PS030404.D	6.93	0.00
TP-45	Q2100-04	05/24/2025	02:53	PS030405.D	6.93	0.00
IBLK	IBLK	05/24/2025	04:06	PS030408.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	04:30	PS030409.D	6.93	0.00
IBLK	IBLK	05/29/2025	09:05	PS030426.D	6.92	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	09:29	PS030427.D	6.92	0.00
TP-21MS	Q2100-03MS	05/29/2025	14:19	PS030429.D	6.93	0.00
TP-21MSD	Q2100-03MSD	05/29/2025	14:44	PS030430.D	6.93	0.00
IBLK	IBLK	05/29/2025	16:13	PS030433.D	6.93	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	16:37	PS030434.D	6.93	0.00

Analytical Sequence

Client: CDM Smith	SDG No.: Q2100
Project: South River WM Replacement	Instrument ID: ECD_S
GC Column: RTX-CLP2	ID: 0.32 (mm) Inst. Calib. Date(s): 05/12/2025 05/12/2025

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES,
AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCAA RT #	RT #
IBLK	IBLK	05/12/2025	12:06	PS030124.D	7.45	0.00
HSTDICC200	HSTDICC200	05/12/2025	12:30	PS030125.D	7.45	0.00
HSTDICC500	HSTDICC500	05/12/2025	12:54	PS030126.D	7.45	0.00
HSTDICC750	HSTDICC750	05/12/2025	13:18	PS030127.D	7.45	0.00
HSTDICC1000	HSTDICC1000	05/12/2025	13:42	PS030128.D	7.45	0.00
HSTDICC1500	HSTDICC1500	05/12/2025	14:06	PS030129.D	7.45	0.00
IBLK	IBLK	05/23/2025	13:51	PS030379.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	14:15	PS030380.D	7.44	0.00
PB168137BL	PB168137BL	05/23/2025	16:28	PS030381.D	7.44	0.00
PB168137BS	PB168137BS	05/23/2025	16:52	PS030382.D	7.45	0.00
IBLK	IBLK	05/23/2025	20:28	PS030391.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/23/2025	20:52	PS030392.D	7.44	0.00
TP-16	Q2100-01	05/23/2025	23:41	PS030398.D	7.44	0.00
TP-22	Q2100-02	05/24/2025	00:05	PS030399.D	7.44	0.00
TP-21	Q2100-03	05/24/2025	00:29	PS030400.D	7.44	0.00
IBLK	IBLK	05/24/2025	01:41	PS030403.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	02:05	PS030404.D	7.44	0.00
TP-45	Q2100-04	05/24/2025	02:53	PS030405.D	7.44	0.00
IBLK	IBLK	05/24/2025	04:06	PS030408.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/24/2025	04:30	PS030409.D	7.44	0.00
IBLK	IBLK	05/29/2025	09:05	PS030426.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	09:29	PS030427.D	7.44	0.00
TP-21MS	Q2100-03MS	05/29/2025	14:19	PS030429.D	7.44	0.00
TP-21MSD	Q2100-03MSD	05/29/2025	14:44	PS030430.D	7.44	0.00
IBLK	IBLK	05/29/2025	16:13	PS030433.D	7.44	0.00
HSTDCCC750	HSTDCCC750	05/29/2025	16:37	PS030434.D	7.44	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB168137BS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100

SAS No.: Q2100 **SDG NO.:** Q2100

Lab Sample ID: PB168137BS

Date(s) Analyzed: 05/23/2025 05/23/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm)

GC Column:(2): RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	7.78	7.73	7.83	164	6.5
	2	8.32	8.27	8.37	175	
2,4-D	1	8.00	7.95	8.05	183	6.8
	2	8.63	8.58	8.68	171	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	167	0.6
	2	9.51	9.46	9.56	168	
2,4,5-T	1	9.13	9.08	9.18	165	5.6
	2	9.91	9.86	9.96	156	
2,4-DB	1	9.68	9.63	9.73	177	27.7
	2	10.47	10.42	10.52	134	
Dinoseb	1	10.84	10.79	10.89	148	8.5
	2	10.84	10.79	10.89	136	
DICAMBA	1	7.10	7.05	7.15	148	1.3
	2	7.63	7.58	7.68	150	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-21MS

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100

SAS No.: Q2100 **SDG NO.:** Q2100

Lab Sample ID: Q2100-03MS

Date(s) Analyzed: 05/29/2025 05/29/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm)

GC Column:(2): RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	7.78	7.73	7.83	123	3.3
	2	8.31	8.26	8.36	119	
2,4-D	1	8.00	7.95	8.05	154	13.9
	2	8.63	8.58	8.68	134	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	120	2.5
	2	9.50	9.45	9.55	123	
2,4,5-T	1	9.12	9.07	9.17	122	3.3
	2	9.91	9.86	9.96	118	
2,4-DB	1	9.68	9.63	9.73	156	34.6
	2	10.46	10.41	10.51	110	
Dinoseb	1	10.84	10.79	10.89	20.4	1
	2	10.84	10.79	10.89	20.6	
DICAMBA	1	7.10	7.05	7.15	117	7.1
	2	7.62	7.57	7.67	109	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

TP-21MSD

Contract: CAMP02

Lab Code: CHEM **Case No.:** Q2100

SAS No.: Q2100

SDG NO.: Q2100

Lab Sample ID: Q2100-03MSD

Date(s) Analyzed: 05/29/2025 05/29/2025

Instrument ID (1): ECD_S

Instrument ID (2): ECD_S

GC Column: (1): RTX-CLP **ID:** 0.32 (mm)

GC Column:(2): RTX-CLP2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
DICHLORPROP	1	7.78	7.73	7.83	128	12.4
	2	8.32	8.27	8.37	113	
2,4-D	1	8.00	7.95	8.05	146	5.6
	2	8.63	8.58	8.68	138	
2,4,5-TP(Silvex)	1	8.84	8.79	8.89	128	0.8
	2	9.50	9.45	9.55	129	
2,4,5-T	1	9.12	9.07	9.17	127	3.2
	2	9.91	9.86	9.96	123	
2,4-DB	1	9.68	9.63	9.73	158	31.5
	2	10.47	10.42	10.52	115	
Dinoseb	1	10.84	10.79	10.89	20.5	0.5
	2	10.84	10.79	10.89	20.6	
DICAMBA	1	7.10	7.05	7.15	121	5.1
	2	7.62	7.57	7.67	115	



QC SAMPLE DATA

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168137BL	SDG No.:	Q2100
Lab Sample ID:	PB168137BL	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	8151A	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030381.D	1	05/23/25 08:25	05/23/25 16:28	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	7.70	U	7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	12.8	U	12.8	67.0	ug/Kg
94-75-7	2,4-D	9.00	U	9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.10	U	9.10	67.0	ug/Kg
93-76-5	2,4,5-T	8.70	U	8.70	67.0	ug/Kg
94-82-6	2,4-DB	24.2	U	24.2	67.0	ug/Kg
88-85-7	DINOSEB	10.8	U	10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	449		10 - 141	90%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:28
Operator : AR\AJ
Sample : PB168137BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168137BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.928	7.444	1277.2E6	324.8E6	448.500	405.835

Target Compounds

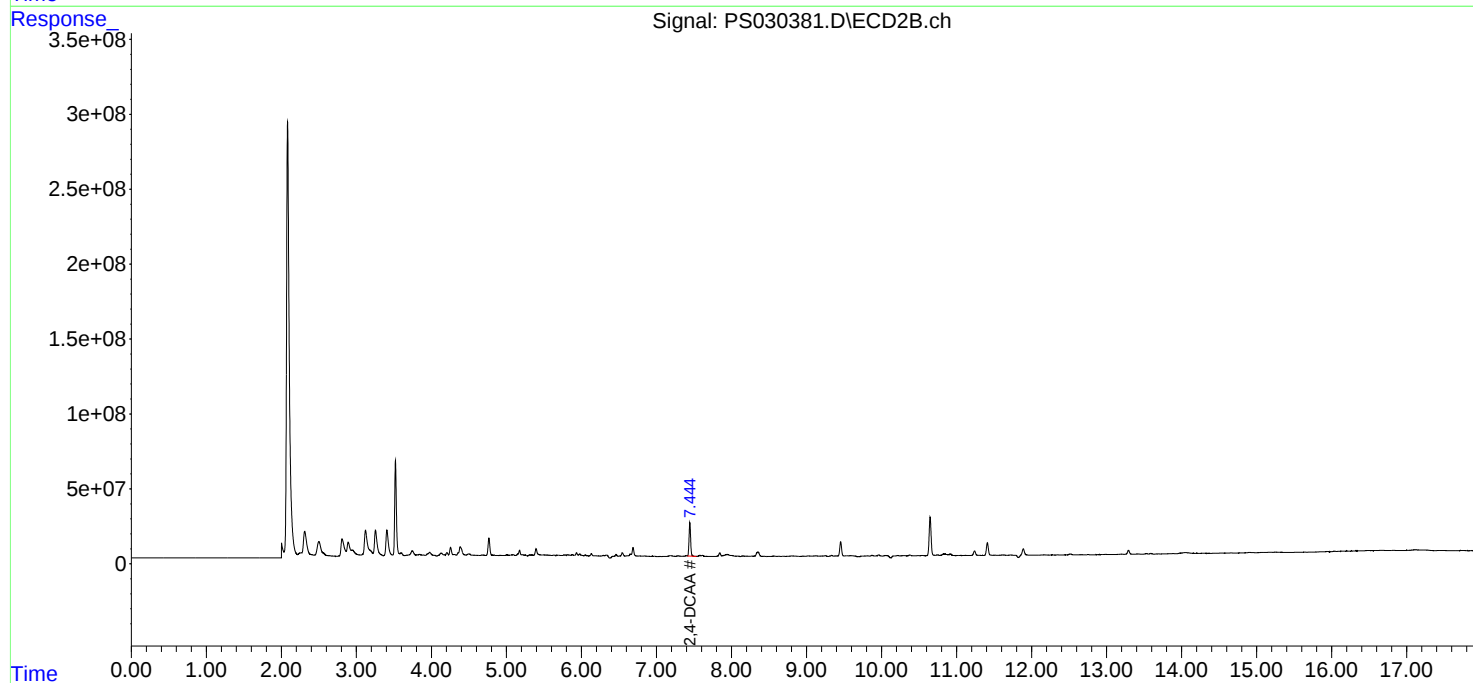
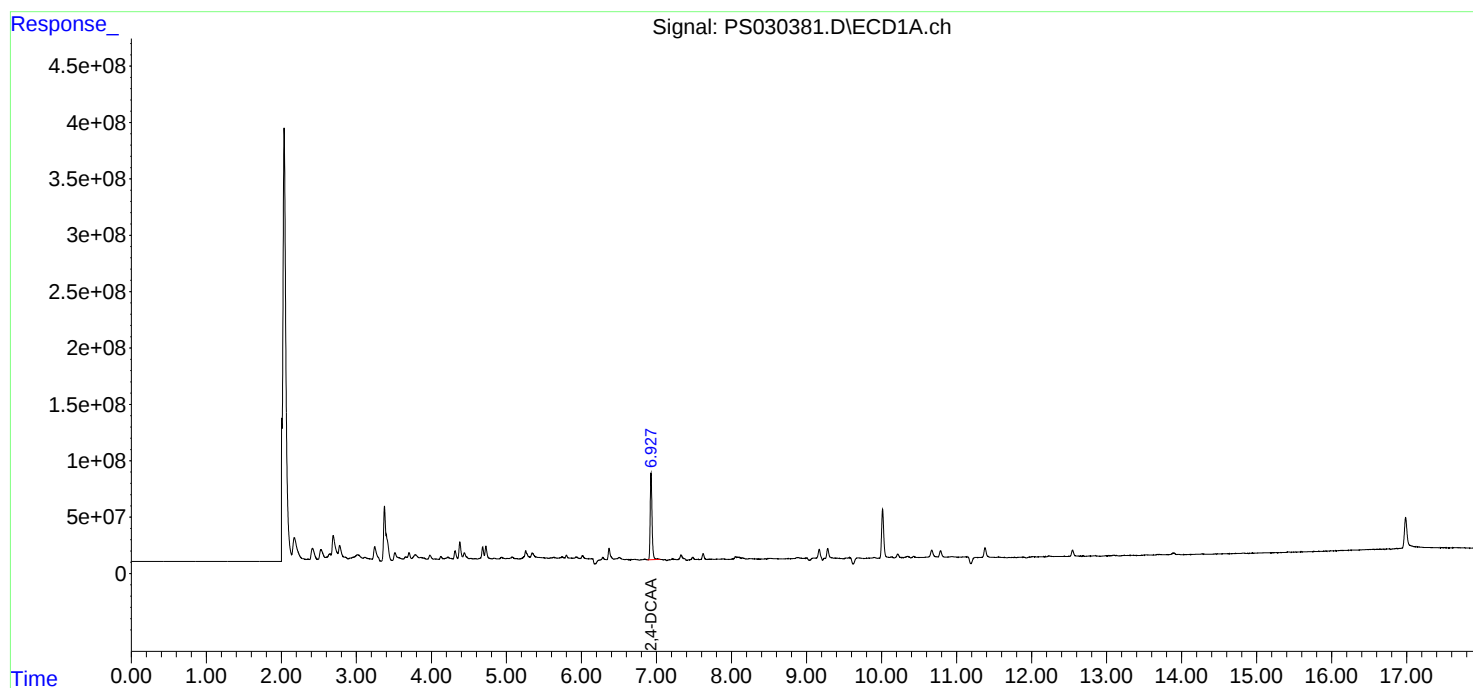
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

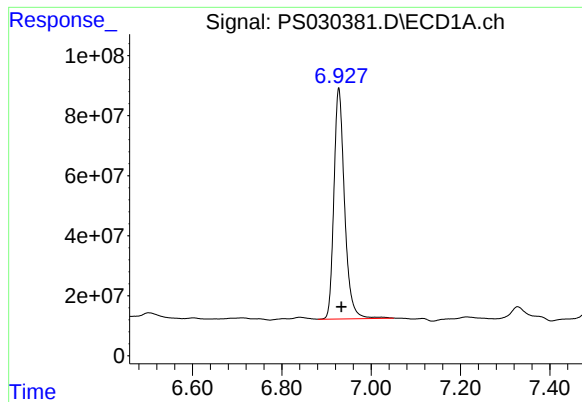
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030381.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:28
Operator : AR\AJ
Sample : PB168137BL
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB168137BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:28 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

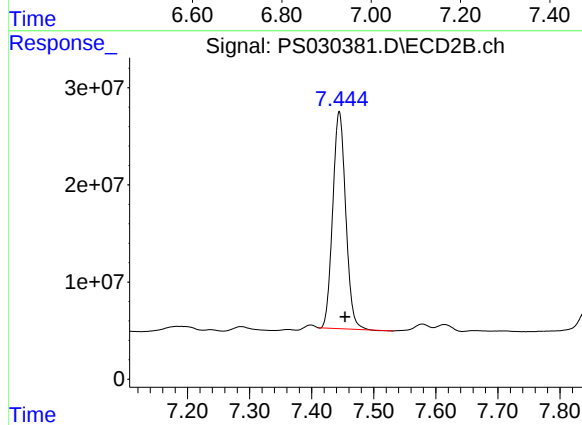




#4 2,4-DCAA

R.T.: 6.928 min
Delta R.T.: -0.006 min
Response: 1277241631
Conc: 448.50 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB168137BL



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.009 min
Response: 324750788
Conc: 405.84 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/12/25
Project:	South River WM Replacement	Date Received:	05/12/25
Client Sample ID:	PIBLK-PS030124.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030124.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030124.D	1		05/12/25	PS051225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	419		39 - 175	84%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
 Data File : PS030124.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 12 May 2025 12:06
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 12 14:30:04 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
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System Monitoring Compounds

4) S 2,4-DCAA	6.934	7.454	1194.2E6	334.3E6	419.337	417.753
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Target Compounds

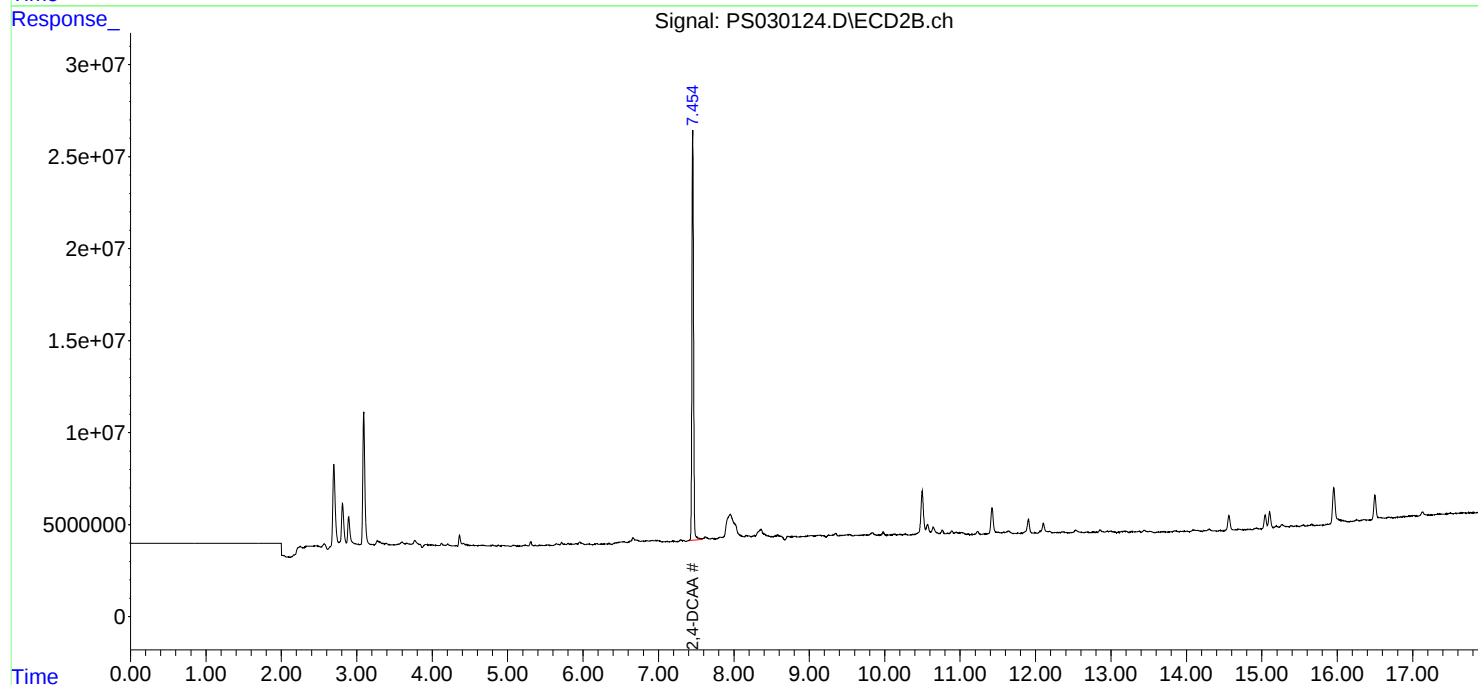
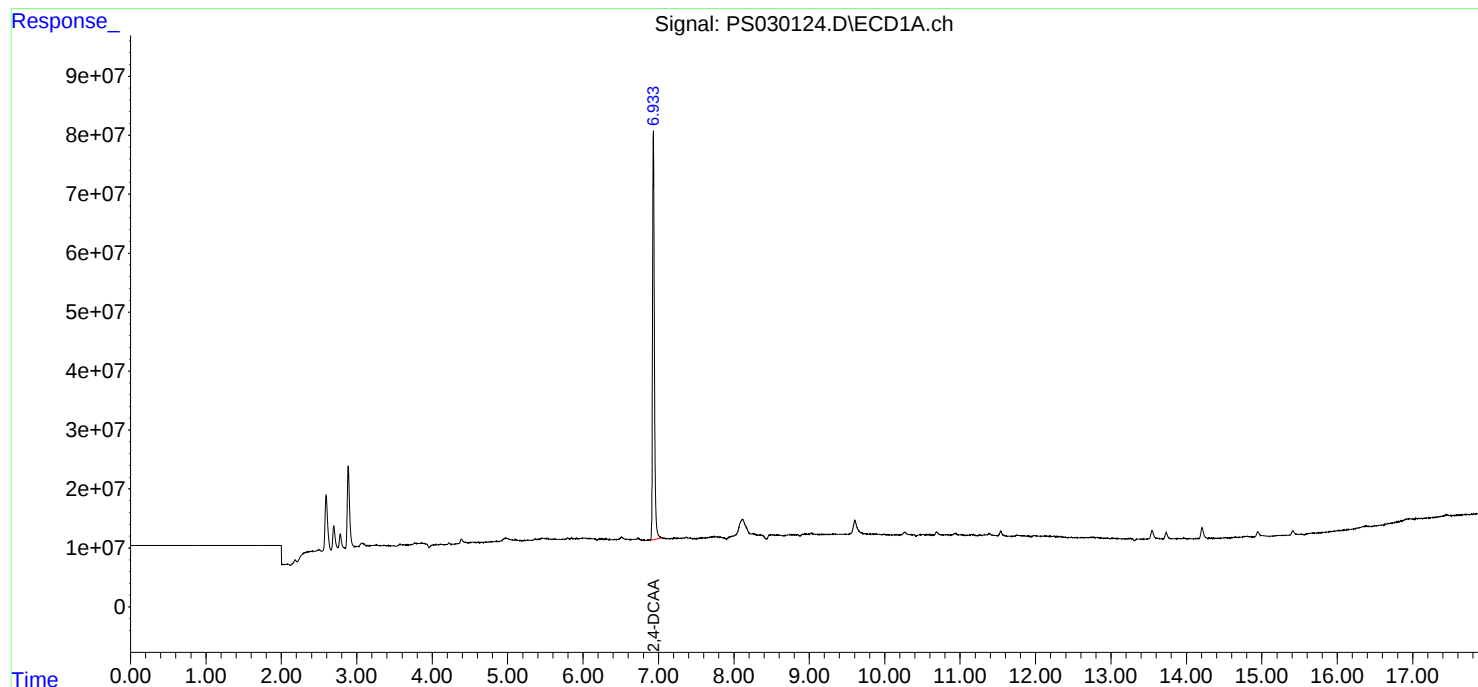
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

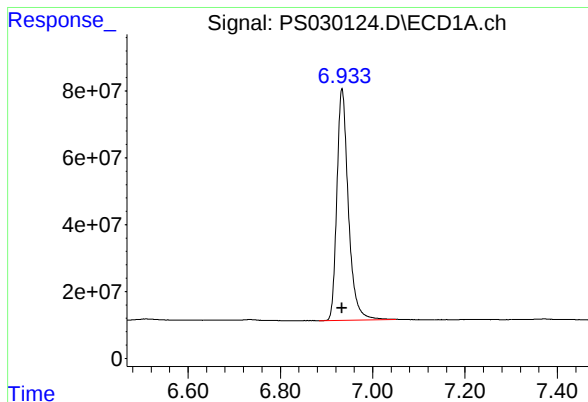
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS051225\
Data File : PS030124.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2025 12:06
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 12 14:30:04 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

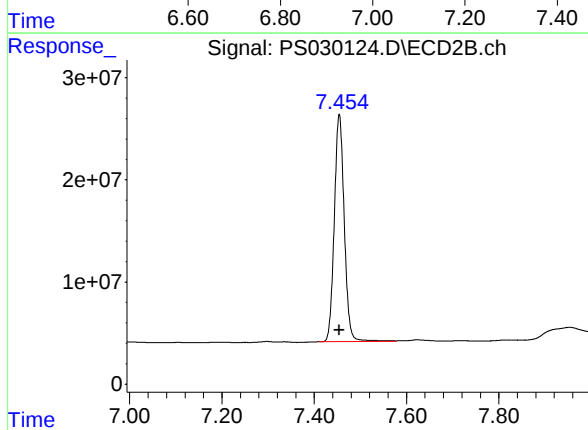




#4 2,4-DCAA

R.T.: 6.934 min
Delta R.T.: 0.000 min
Response: 1194190207
Conc: 419.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.454 min
Delta R.T.: 0.000 min
Response: 334287239
Conc: 417.75 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-PS030379.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030379.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030379.D	1		05/23/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	507		39 - 175	101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 13:51
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 14:18:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.444	1444.0E6	394.9E6	507.054	493.460

Target Compounds

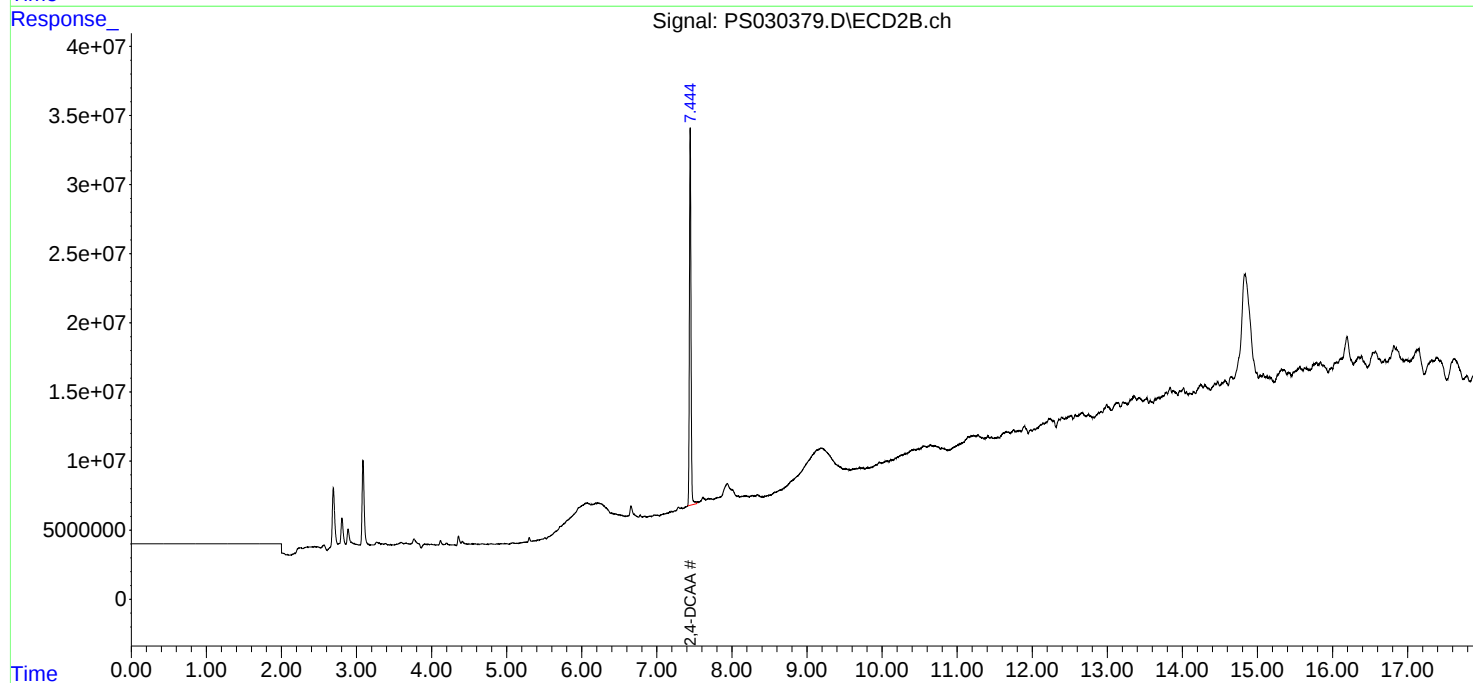
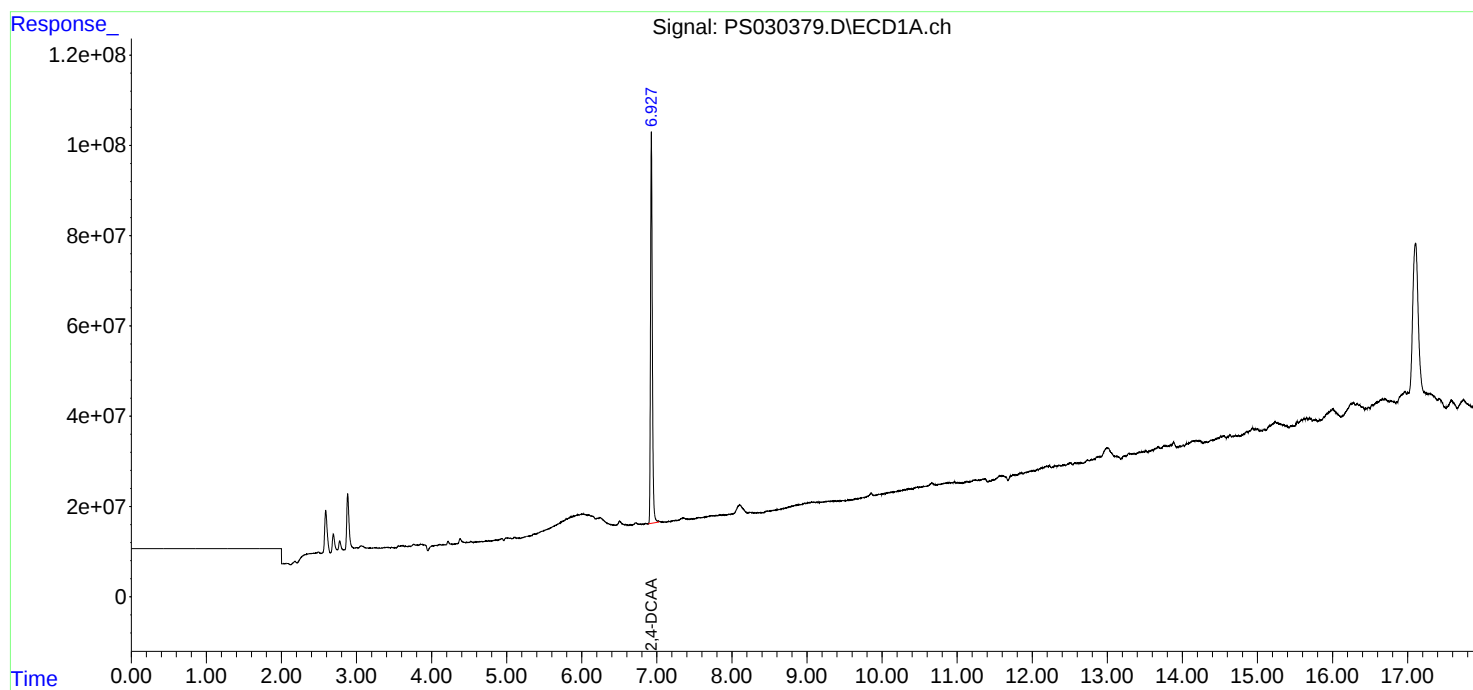
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

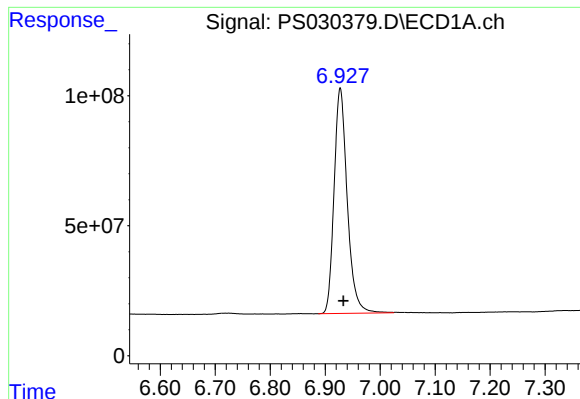
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030379.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 13:51
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 14:18:59 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

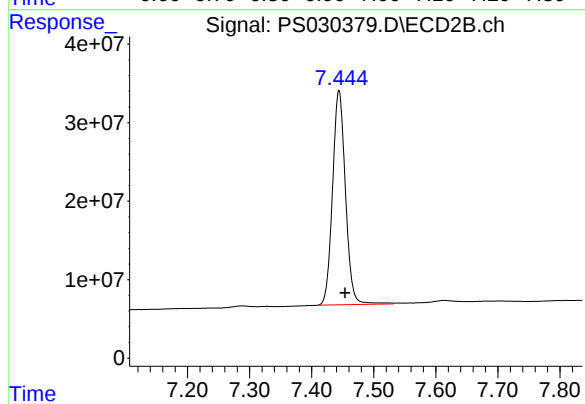




#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.006 min
Response: 1443991414
Conc: 507.05 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.010 min
Response: 394868145
Conc: 493.46 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/23/25
Project:	South River WM Replacement	Date Received:	05/23/25
Client Sample ID:	PIBLK-PS030391.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030391.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030391.D	1		05/23/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	531		39 - 175	106%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 20:28
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:36:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.444	1513.2E6	420.8E6	531.344	525.819

Target Compounds

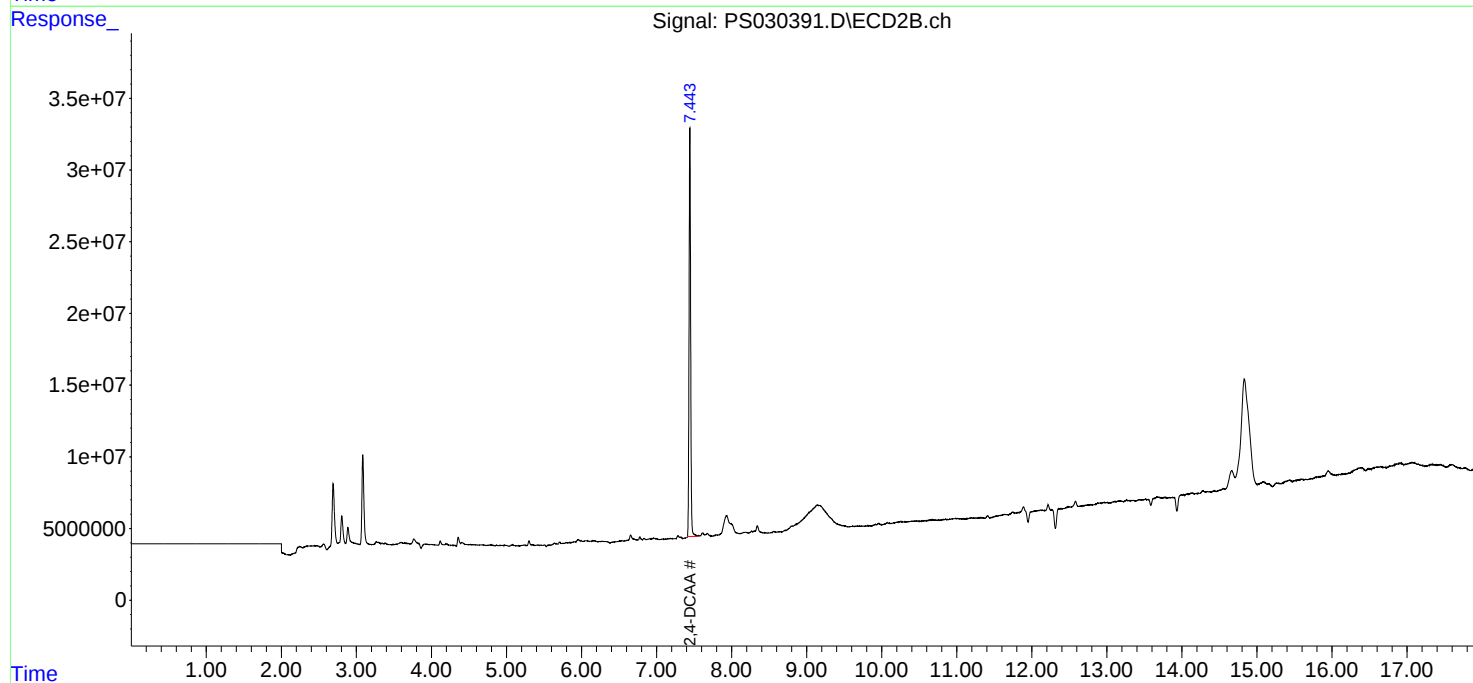
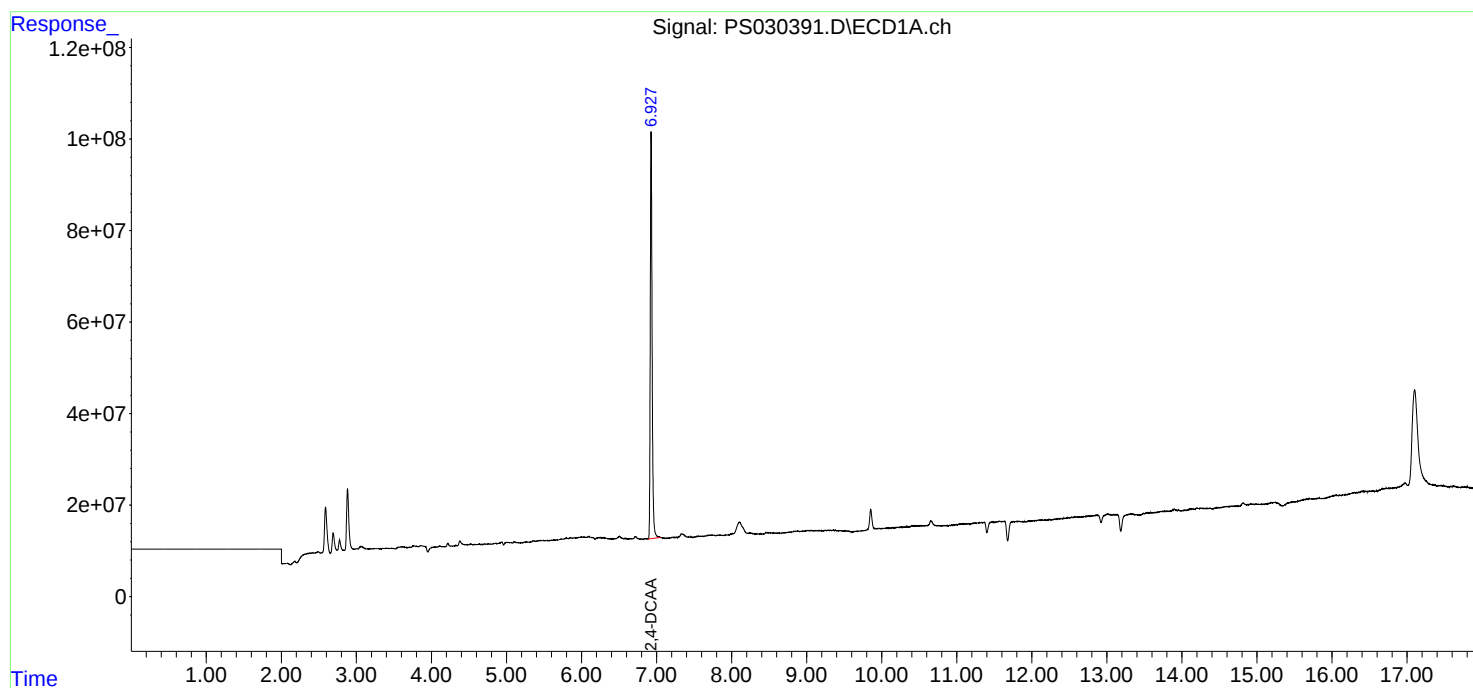
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030391.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 20:28
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

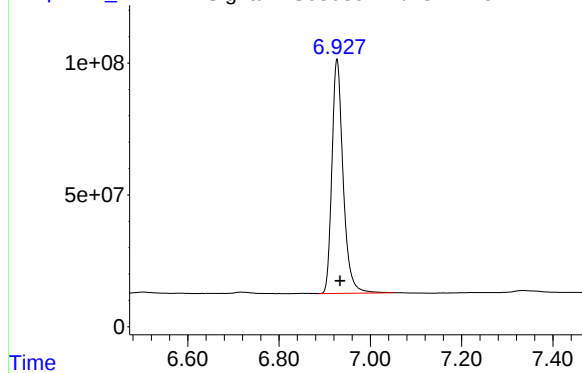
Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:36:15 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS030391.D\ECD1A.ch

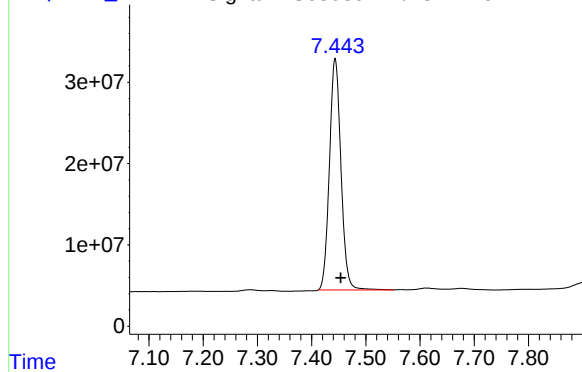


#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 1513165022
Conc: 531.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Response_ Signal: PS030391.D\ECD2B.ch



#4 2,4-DCAA

R.T.: 7.444 min
Delta R.T.: -0.010 min
Response: 420762037
Conc: 525.82 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/24/25
Project:	South River WM Replacement	Date Received:	05/24/25
Client Sample ID:	PIBLK-PS030403.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030403.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030403.D	1		05/24/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	531		39 - 175	106%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030403.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 01:41
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 02:13:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.926	7.443	1486.5E6	425.2E6	521.973	531.413

Target Compounds

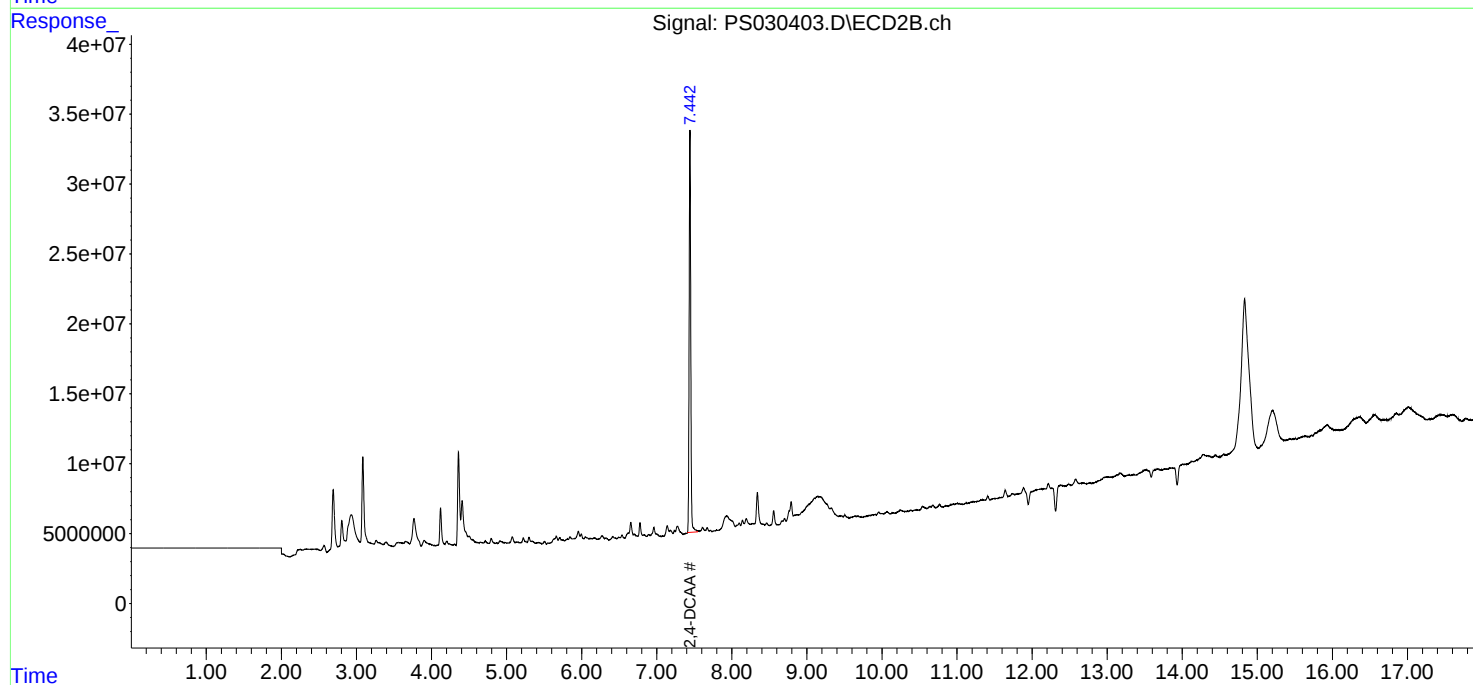
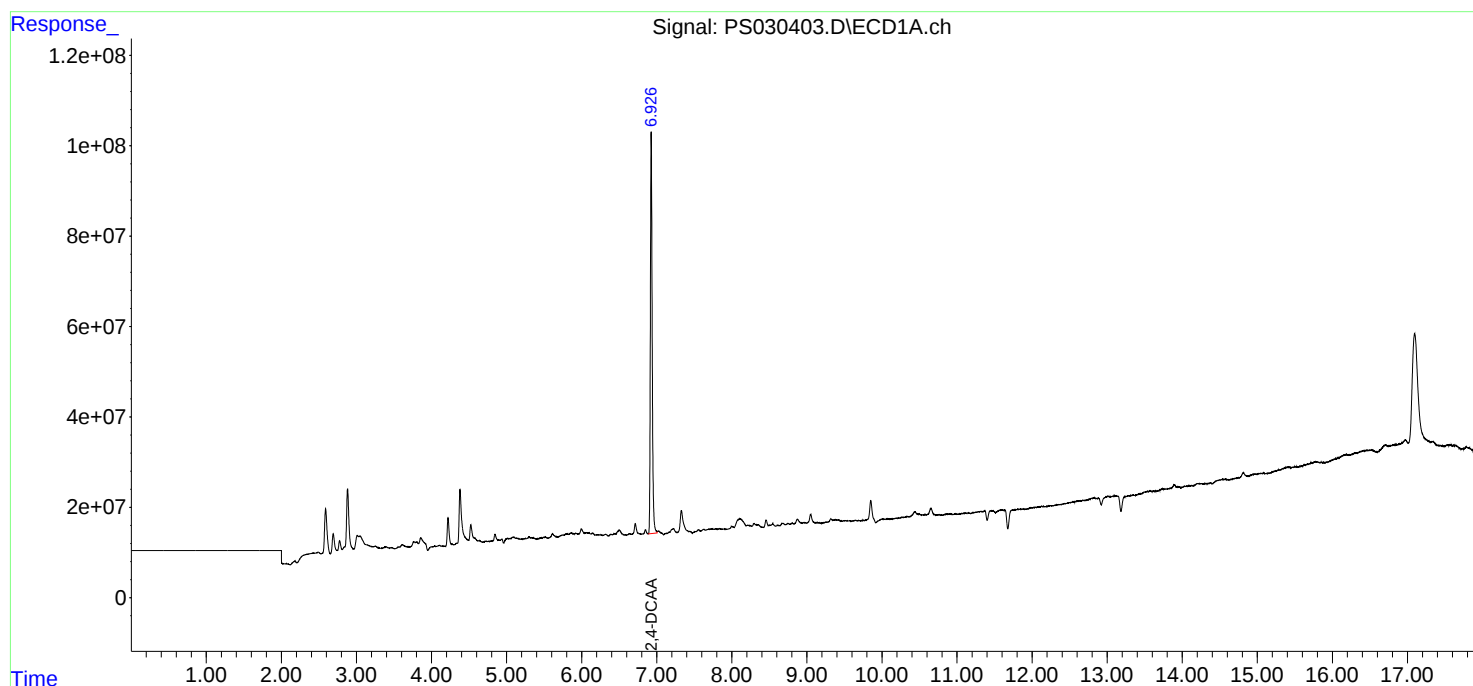
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

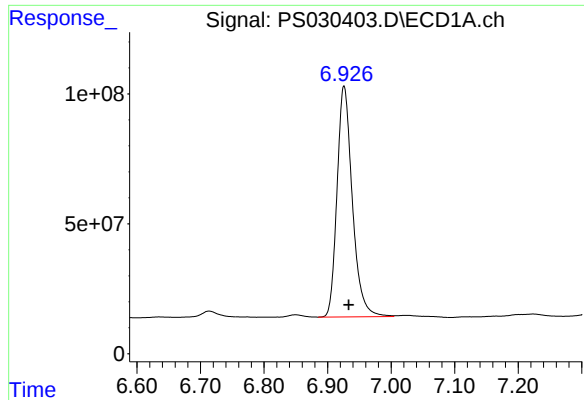
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030403.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 01:41
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 02:13:19 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

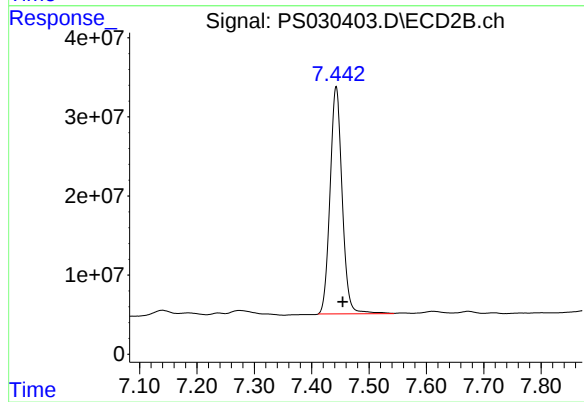




#4 2,4-DCAA

R.T.: 6.926 min
Delta R.T.: -0.008 min
Response: 1486478338
Conc: 521.97 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 425238741
Conc: 531.41 ng/ml

Report of Analysis

Client:	CDM Smith	Date Collected:	05/24/25
Project:	South River WM Replacement	Date Received:	05/24/25
Client Sample ID:	PIBLK-PS030408.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030408.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030408.D	1		05/24/25	ps052325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	535		39 - 175	107%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030408.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 24 May 2025 04:06
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 24 04:35:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.927	7.443	1511.7E6	427.9E6	530.819	534.767

Target Compounds

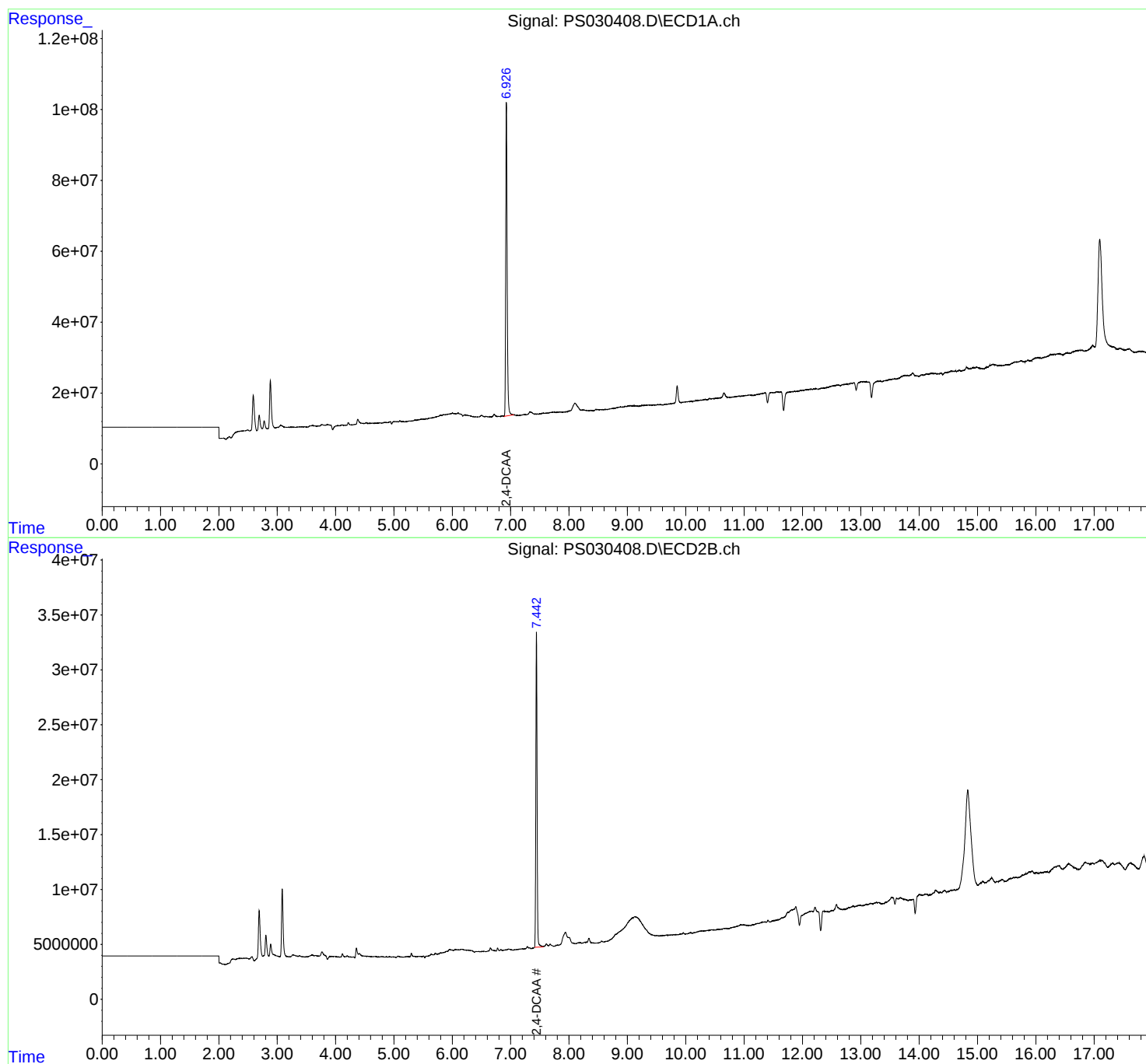
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 May 2025 04:06
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 24 04:35:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_ Signal: PS030408.D\ECD1A.ch

#4 2,4-DCAA

R.T.: 6.927 min
Delta R.T.: -0.007 min
Response: 1511670783
Conc: 530.82 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Time

Response_ Signal: PS030408.D\ECD2B.ch

#4 2,4-DCAA

R.T.: 7.443 min
Delta R.T.: -0.011 min
Response: 427922207
Conc: 534.77 ng/ml

Time

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/29/25
Client Sample ID:	PIBLK-PS030426.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030426.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030426.D	1		05/29/25	ps052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	488		39 - 175	98%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
 Data File : PS030426.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 May 2025 09:05
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/30/2025
 Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 29 23:26:39 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.924	7.439	1388.9E6	385.9E6	487.710	482.245m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030426.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 09:05
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

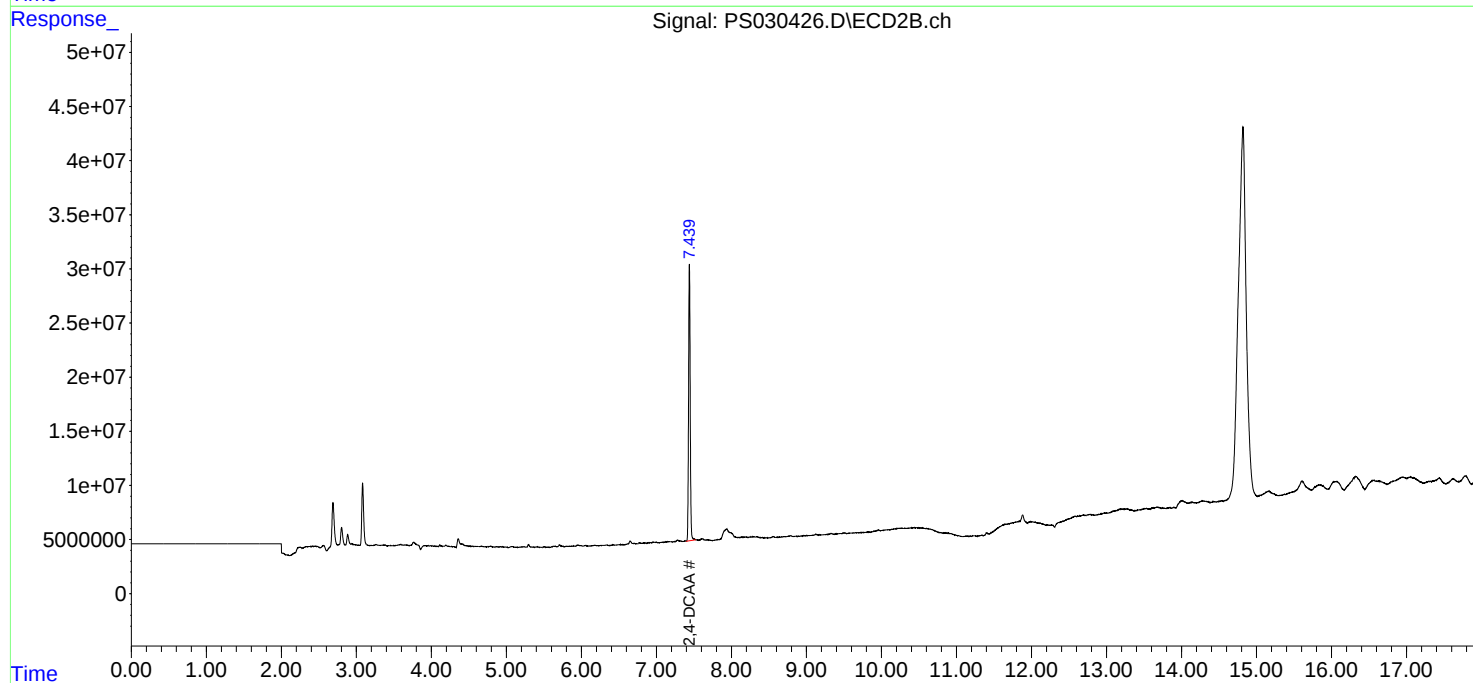
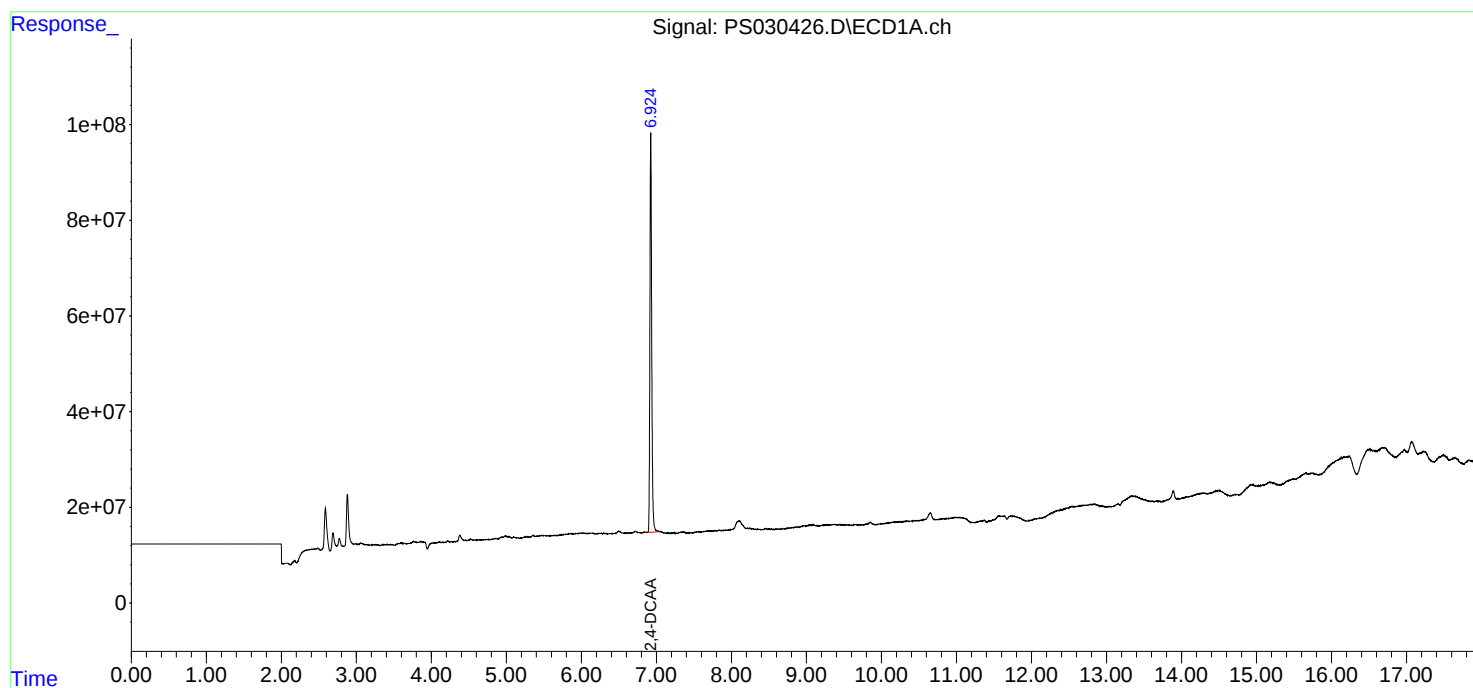
Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/30/2025
Supervised By : mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:26:39 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

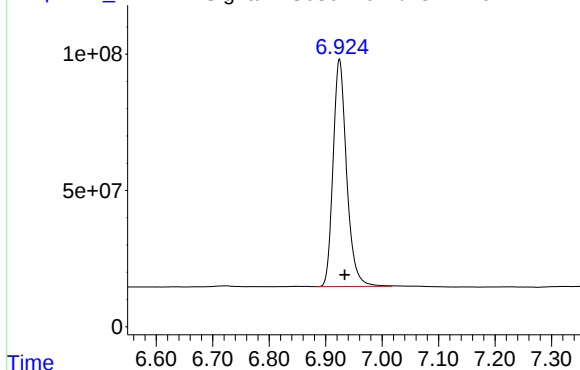
Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x 0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Response_

Signal: PS030426.D\ECD1A.ch

#4 2,4-DCAA



R.T.: 6.924 min
Delta R.T.: -0.009 min
Response: 1388904030
Conc: 487.71 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 05/30/2025

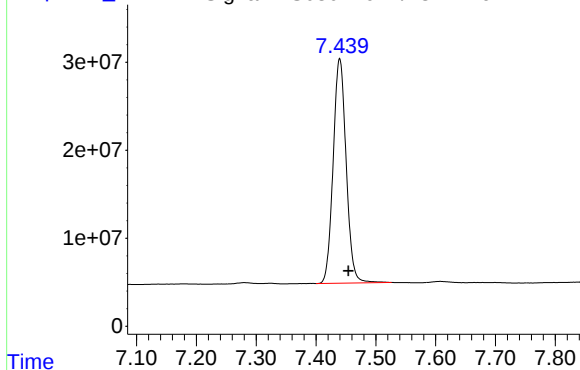
Supervised By :mohammad ahmed 05/30/2025

Time

Response_

Signal: PS030426.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.439 min
Delta R.T.: -0.015 min
Response: 385894341
Conc: 482.25 ng/ml m

Report of Analysis

Client:	CDM Smith	Date Collected:	05/29/25
Project:	South River WM Replacement	Date Received:	05/29/25
Client Sample ID:	PIBLK-PS030433.D	SDG No.:	Q2100
Lab Sample ID:	I.BLK-PS030433.D	Matrix:	WATER
Analytical Method:	8151A	% Solid:	0
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	PH :	
Prep Method :	SW3510C	Injection Volume :	

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030433.D	1		05/29/25	ps052925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.65	U	0.65	2.00	ug/L
120-36-5	DICHLORPROP	0.76	U	0.76	2.00	ug/L
94-75-7	2,4-D	0.92	U	0.92	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.78	U	0.78	2.00	ug/L
93-76-5	2,4,5-T	0.71	U	0.71	2.00	ug/L
94-82-6	2,4-DB	0.65	U	0.65	2.00	ug/L
88-85-7	DINOSEB	0.89	U	0.89	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	499		39 - 175	100%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 16:13
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:28:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds						
4) S 2,4-DCAA	6.925	7.441	1419.8E6	386.2E6	498.553	482.684m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030433.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 16:13
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

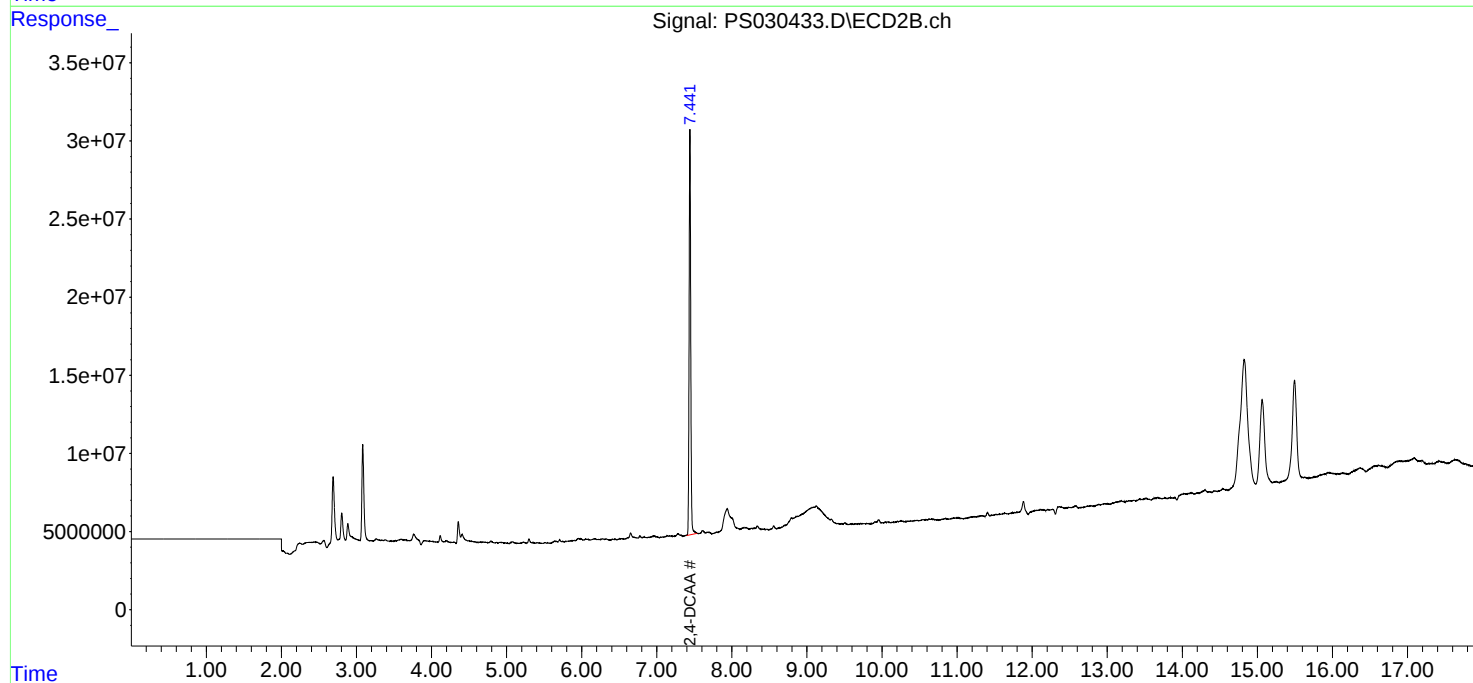
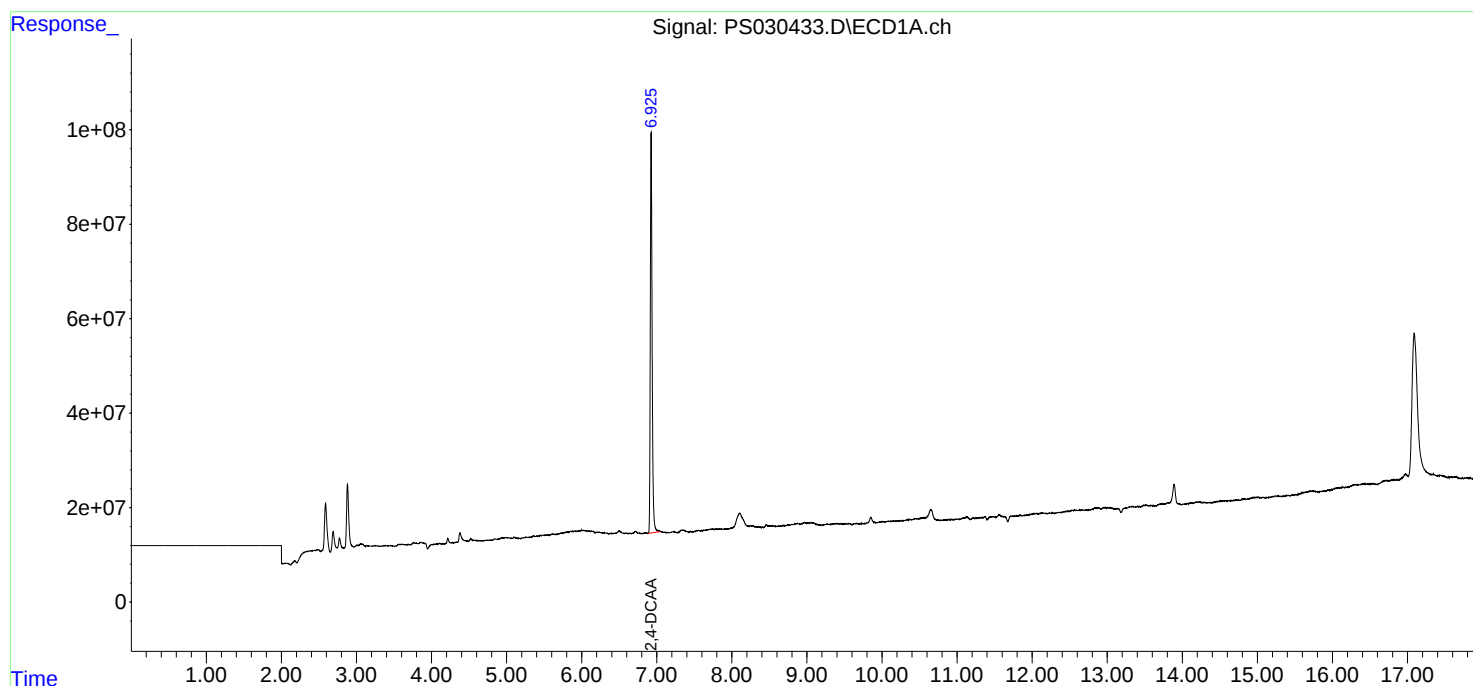
Instrument :
ECD_S
ClientSampleId :
I.BLK

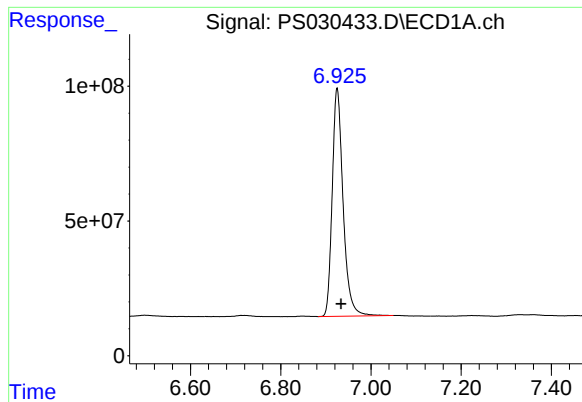
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/30/2025
Supervised By : mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:28:08 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm





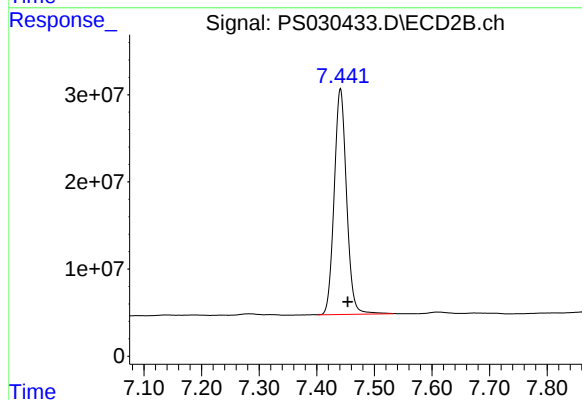
#4 2,4-DCAA

R.T.: 6.925 min
Delta R.T.: -0.008 min
Response: 1419782130
Conc: 498.55 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025



#4 2,4-DCAA

R.T.: 7.441 min
Delta R.T.: -0.013 min
Response: 386245418
Conc: 482.68 ng/ml m

Report of Analysis

Client:	CDM Smith	Date Collected:	
Project:	South River WM Replacement	Date Received:	
Client Sample ID:	PB168137BS	SDG No.:	Q2100
Lab Sample ID:	PB168137BS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Herbicide
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030382.D	1	05/23/25 08:25	05/23/25 16:52	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	150		7.70	67.0	ug/Kg
120-36-5	DICHLORPROP	175		12.8	67.0	ug/Kg
94-75-7	2,4-D	183		9.00	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	168		9.10	67.0	ug/Kg
93-76-5	2,4,5-T	165		8.70	67.0	ug/Kg
94-82-6	2,4-DB	177	P	24.2	67.0	ug/Kg
88-85-7	DINOSEB	148		10.8	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	510		10 - 141	102%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
 Data File : PS030382.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 23 May 2025 16:52
 Operator : AR\AJ
 Sample : PB168137BS
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB168137BS

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/27/2025
 Supervised By :mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 23 22:33:45 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.928	7.445	1451.0E6	348.4E6	509.513	435.331
Target Compounds							
1) T	Dalapon	2.442	2.514	2136.5E6	1507.8E6	434.663	742.393 #
2) T	3,5-DICHL...	6.133	6.446	2113.8E6	519.9E6	506.838	445.920
3) T	4-Nitroph...	6.718	6.980	875.5E6	401.4E6	423.842	384.489
5) T	DICAMBA	7.104	7.629	5133.4E6	2125.4E6	444.167	449.539
6) T	MCPD	7.282	7.737	321.3E6	70446839	44.112m	38.291
7) T	MCPA	7.424	7.965	438.6E6	112.7E6	42.246	42.737
8) T	DICHLORPROP	7.783	8.321	1441.3E6	620.8E6	493.364	525.429
9) T	2,4-D	8.003	8.633	1805.4E6	660.7E6	550.599	511.990
10) T	Pentachlo...	8.280	9.132	21312.5E6	12267.0E6	526.224	496.943
11) T	2,4,5-TP ...	8.843	9.509	8115.6E6	4954.7E6	501.089	502.994
12) T	2,4,5-T	9.125	9.913	8157.5E6	4320.5E6	493.937	469.437
13) T	2,4-DB	9.683	10.470	1390.2E6	398.6E6	532.689	401.701m
14) T	DINOSEB	10.842	10.844	5066.7E6	2789.8E6	443.037	408.342
15) T	Picloram	10.663	11.876	8363.7E6	5941.6E6	391.064	422.193m
16) T	DCPA	11.144	11.874	9564.4E6	4948.9E6	480.348	366.302m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052325\
Data File : PS030382.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 23 May 2025 16:52
Operator : AR\AJ
Sample : PB168137BS
Misc :
ALS Vial : 11 Sample Multiplier: 1

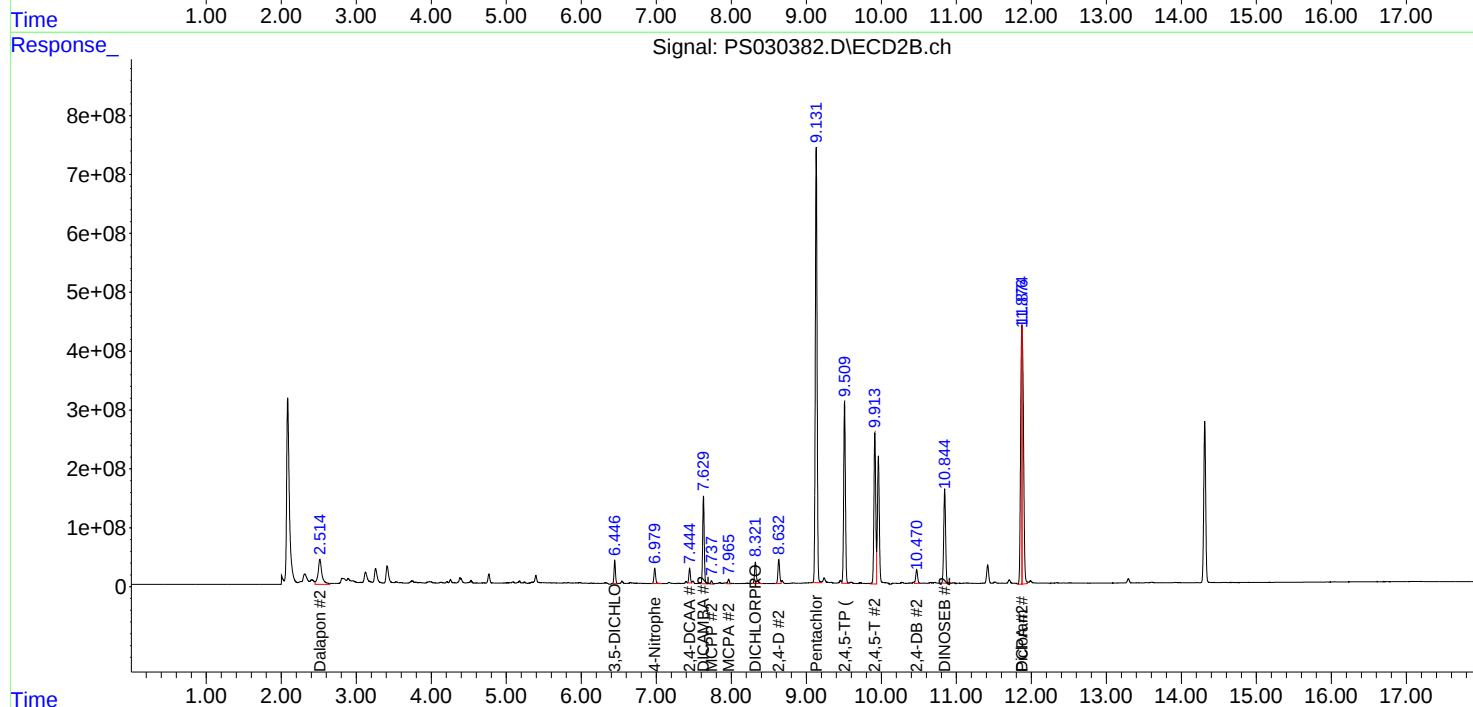
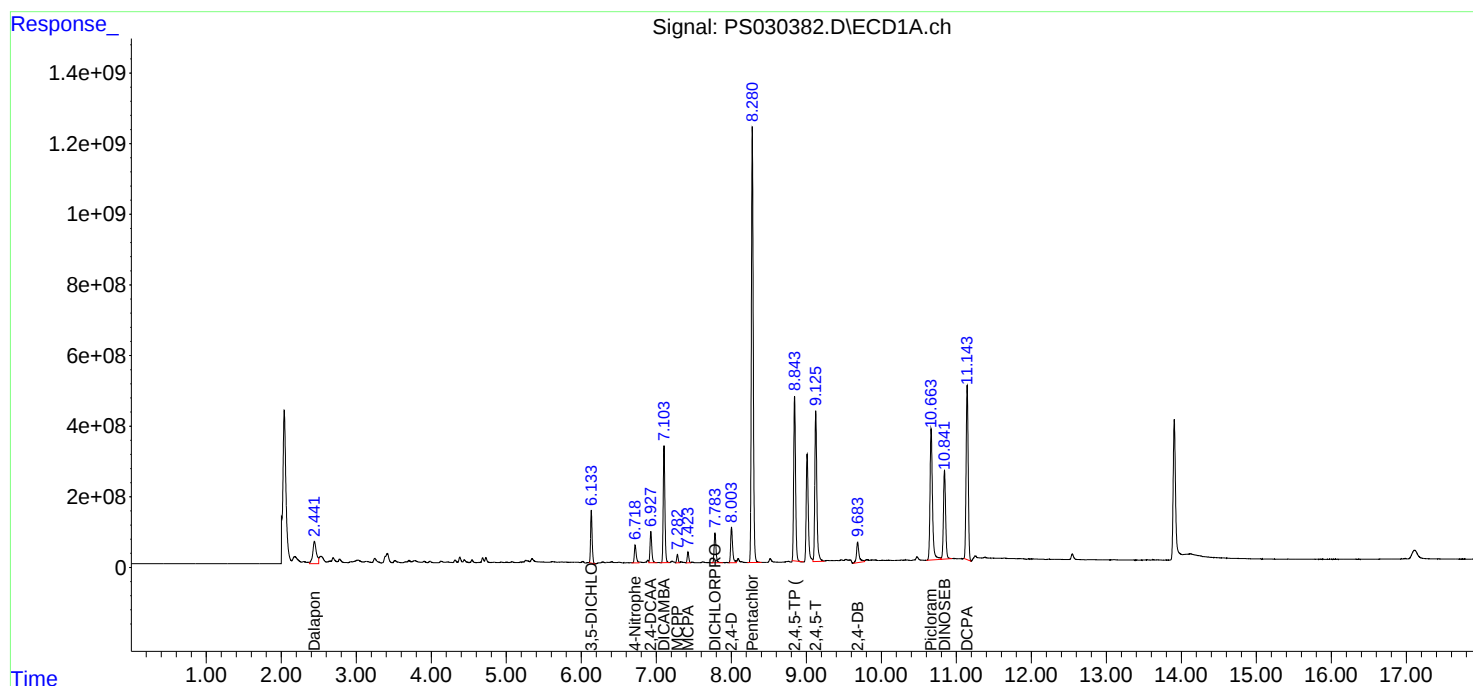
Instrument :
ECD_S
ClientSampleId :
PB168137BS

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 05/27/2025
Supervised By : mohammad ahmed 05/28/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 23 22:33:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MS	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MS	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2
Sample Wt/Vol:	30.01	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030429.D	1	05/23/25 08:25	05/29/25 14:19	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	117		9.90	85.6	ug/Kg
120-36-5	DICHLORPROP	123		16.4	85.6	ug/Kg
94-75-7	2,4-D	154		11.6	85.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	123		11.6	85.6	ug/Kg
93-76-5	2,4,5-T	122		11.1	85.6	ug/Kg
94-82-6	2,4-DB	156		30.9	85.6	ug/Kg
88-85-7	DINOSEB	20.6	J	13.8	85.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	282		10 - 141	56%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
 Data File : PS030429.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 May 2025 14:19
 Operator : AR\AJ
 Sample : Q2100-03MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-21MS

Manual Integrations
 APPROVED

Reviewed By : Abdul Mirza 05/30/2025
 Supervised By : mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 29 23:27:16 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.926	7.438	802.4E6	198.9E6	281.764	248.580
Target Compounds							
1) T	Dalapon	2.437	2.505	1204.8E6	882.5E6	245.115	434.516 #
2) T	3,5-DICHL...	6.131	6.440	1282.4E6	303.5E6	307.497	260.367
3) T	4-Nitroph...	6.717	6.973	586.4E6	262.9E6	283.873	251.833
5) T	DICAMBA	7.102	7.622	3160.1E6	1204.2E6	273.426	254.706m
6) T	MCPD	7.278	7.730	162.8E6	33422728	22.359m	18.167
7) T	MCPA	7.421	7.956	231.8E6	56500015	22.325	21.420m
8) T	DICHLORPROP	7.781	8.314	845.1E6	330.5E6	289.279	279.767m
9) T	2,4-D	8.001	8.627	1183.2E6	407.3E6	360.837	315.612
10) T	Pentachlo...	8.278	9.125	12007.7E6	6814.8E6	296.482	276.069
11) T	2,4,5-TP ...	8.841	9.503	4559.5E6	2852.8E6	281.521	289.609
12) T	2,4,5-T	9.124	9.906	4732.9E6	2540.1E6	286.578	275.989
13) T	2,4-DB	9.682	10.464	956.1E6	256.3E6	366.360	258.282 #
14) T	DINOSEB	10.840	10.835	546.9E6	330.2E6	47.820	48.326m
15) T	Picloram	10.661	11.868	5067.0E6	3578.0E6	236.921	254.246m
16) T	DCPA	11.142	11.864	5422.7E6	2666.2E6	272.340	197.342m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030429.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:19
Operator : AR\AJ
Sample : Q2100-03MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

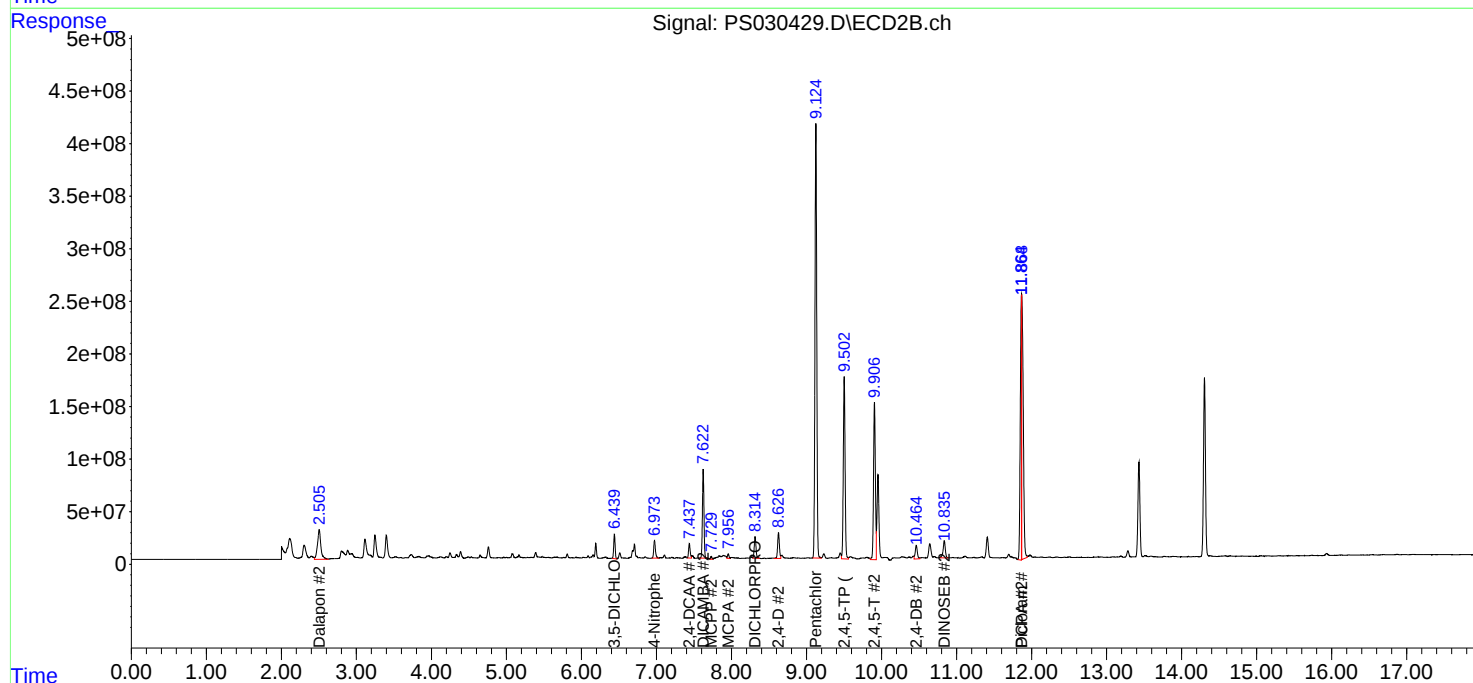
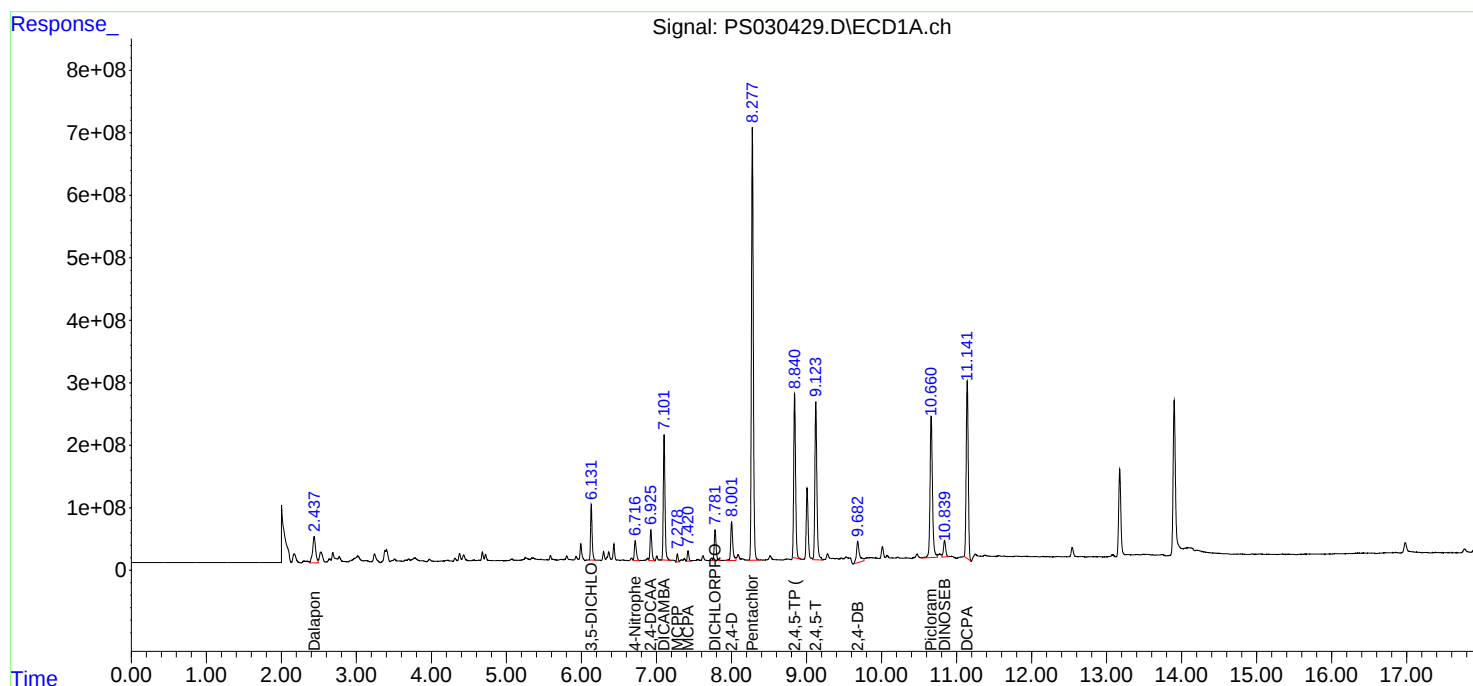
Instrument :
ECD_S
ClientSampleId :
TP-21MS

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 05/30/2025
Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Report of Analysis

Client:	CDM Smith	Date Collected:	05/20/25
Project:	South River WM Replacement	Date Received:	05/20/25
Client Sample ID:	TP-21MSD	SDG No.:	Q2100
Lab Sample ID:	Q2100-03MSD	Matrix:	SOIL
Analytical Method:	8151A	% Solid:	78.2
Sample Wt/Vol:	30.08	Units:	g
Soil Aliquot Vol:			uL
Extraction Type:		Test:	Herbicide
GPC Factor :	1.0	Injection Volume :	
Prep Method :	8151A		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS030430.D	1	05/23/25 08:25	05/29/25 14:44	PB168137

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	121		9.90	85.4	ug/Kg
120-36-5	DICHLORPROP	128		16.3	85.4	ug/Kg
94-75-7	2,4-D	146		11.5	85.4	ug/Kg
93-72-1	2,4,5-TP (Silvex)	129		11.6	85.4	ug/Kg
93-76-5	2,4,5-T	127		11.1	85.4	ug/Kg
94-82-6	2,4-DB	158		30.9	85.4	ug/Kg
88-85-7	DINOSEB	20.6	J	13.8	85.4	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	293		10 - 141	59%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

P = Indicates >25% difference for detected concentrations between the two GC columns

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
 Data File : PS030430.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 29 May 2025 14:44
 Operator : AR\AJ
 Sample : Q2100-03MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 TP-21MSD

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 05/30/2025
 Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: May 29 23:27:29 2025
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
 Quant Title : 8080.M
 QLast Update : Mon May 12 14:29:24 2025
 Response via : Initial Calibration
 Integrator: ChemStation

Volume Inj. : 1 µl
 Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
 Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml

System Monitoring Compounds							
4) S	2,4-DCAA	6.925	7.440	834.1E6	210.0E6	292.880	262.395
Target Compounds							
1) T	Dalapon	2.439	2.509	1209.4E6	909.7E6	246.047	447.915 #
2) T	3,5-DICHL...	6.131	6.442	1337.8E6	318.2E6	320.766	272.912
3) T	4-Nitroph...	6.716	6.976	608.6E6	278.8E6	294.617	267.040
5) T	DICAMBA	7.101	7.624	3289.4E6	1278.7E6	284.618	270.452m
6) T	MCPD	7.278	7.731	138.6E6	35342811	19.033	19.210
7) T	MCPA	7.420	7.959	245.6E6	56449011	23.660	21.401m
8) T	DICHLORPROP	7.780	8.316	878.5E6	312.7E6	300.726	264.721
9) T	2,4-D	8.000	8.628	1125.1E6	417.5E6	343.128	323.489
10) T	Pentachlo...	8.277	9.126	12525.1E6	7209.0E6	309.257	292.039
11) T	2,4,5-TP ...	8.839	9.504	4861.7E6	2984.1E6	300.180m	302.945
12) T	2,4,5-T	9.122	9.908	4925.7E6	2668.9E6	298.251	289.980
13) T	2,4-DB	9.681	10.465	972.8E6	268.3E6	372.755	270.344 #
14) T	DINOSEB	10.838	10.837	551.8E6	330.9E6	48.249	48.432m
15) T	Picloram	10.660	11.870	5040.4E6	3469.1E6	235.678	246.508m
16) T	DCPA	11.140	11.864	5688.6E6	2701.0E6	285.693m	199.918m#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS052925\
Data File : PS030430.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 29 May 2025 14:44
Operator : AR\AJ
Sample : Q2100-03MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

TP-21MSD

Manual Integrations

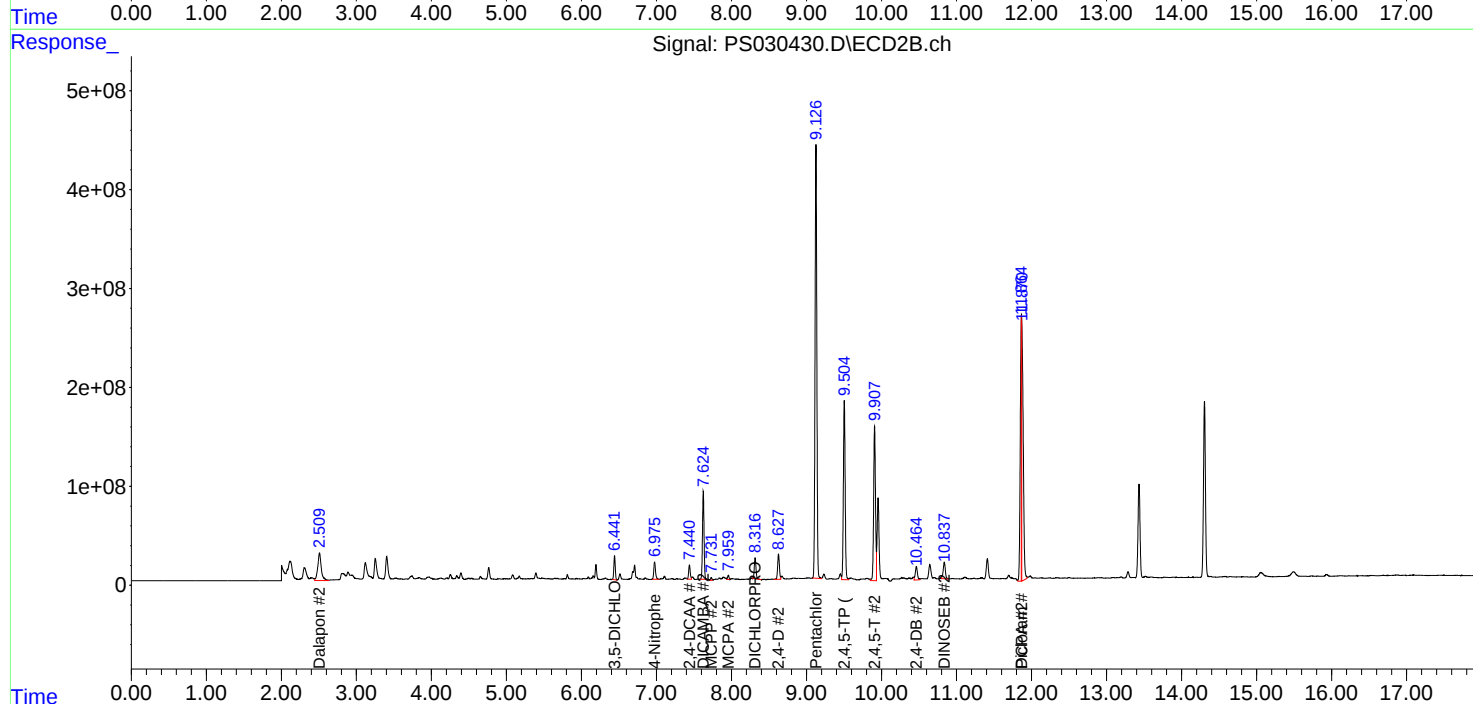
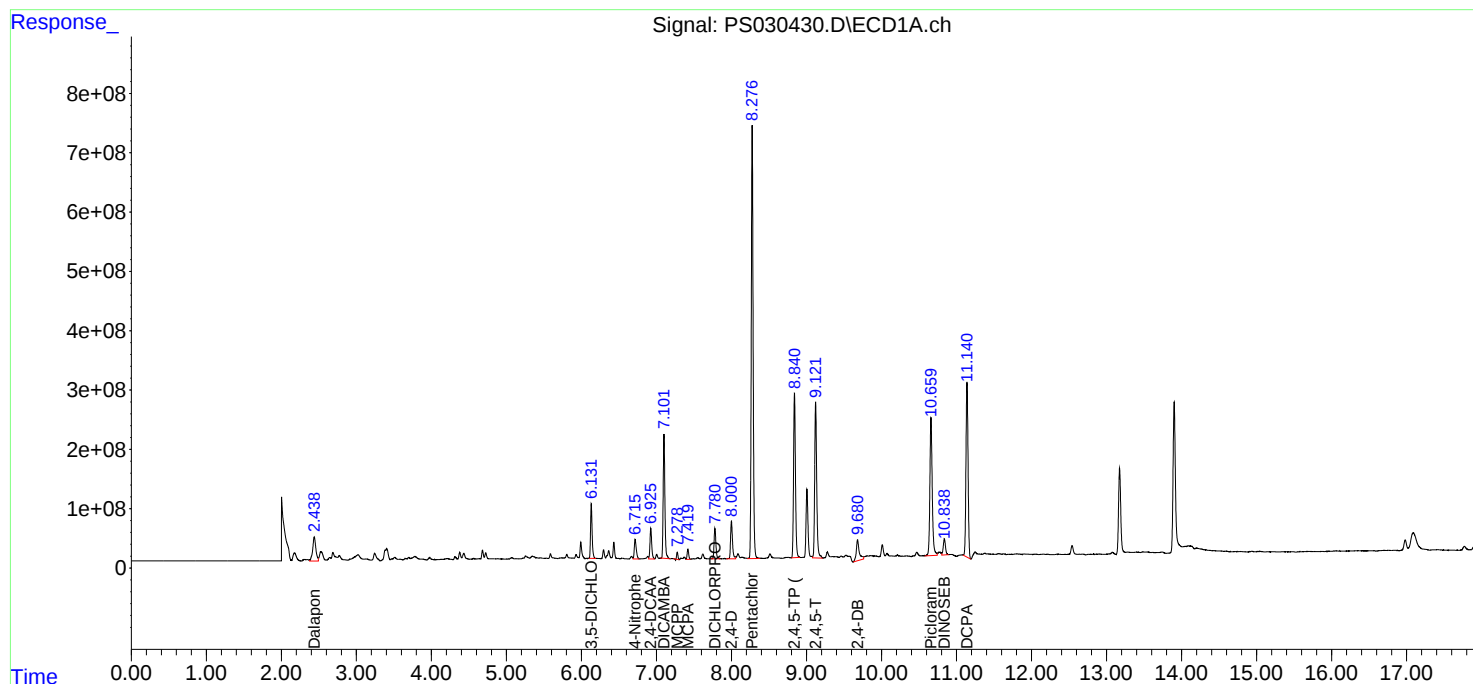
APPROVED

Reviewed By :Abdul Mirza 05/30/2025

Supervised By :mohammad ahmed 05/30/2025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: May 29 23:27:29 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS051225.M
Quant Title : 8080.M
QLast Update : Mon May 12 14:29:24 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB-MR1 Signal #2 Phase: ZB-MR2
Signal #1 Info : 30M x 0.32mm x0.5 Signal #2 Info : 30M x 0.32mm x 0.25µm



Manual Integration Report

Sequence:	PS051225	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS030125.D	DCPA #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC200	PS030125.D	Picloram #2	Abdul	5/13/2025 9:33:45 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	DCPA #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC500	PS030126.D	Picloram #2	Abdul	5/13/2025 9:33:50 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	DCPA #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC750	PS030127.D	Picloram #2	Abdul	5/13/2025 9:33:54 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	DCPA #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1000	PS030128.D	Picloram #2	Abdul	5/13/2025 9:33:58 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	DCPA #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICC1500	PS030129.D	Picloram #2	Abdul	5/13/2025 9:34:03 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	DCPA #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDICV750	PS030130.D	Picloram #2	Abdul	5/13/2025 9:34:08 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030132.D	DCPA #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

Manual Integration Report

Sequence:	PS051225	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030132.D	Picloram #2	Abdul	5/13/2025 9:34:12 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	DCPA #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030138.D	Picloram #2	Abdul	5/13/2025 9:34:34 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	DCPA #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software
HSTDCCC750	PS030146.D	Picloram #2	Abdul	5/13/2025 9:35:02 AM	mohammad	5/14/2025 5:13:40	Peak Integrated by Software

Manual Integration Report

Sequence:	ps052325	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS030371.D	2,4-DCAA #2	Abdul	5/27/2025 11:51:13 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030372.D	DCCA #2	Abdul	5/27/2025 11:51:17 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030372.D	Picloram #2	Abdul	5/27/2025 11:51:17 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	2,4-DB #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	DCCA #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030380.D	Picloram #2	Abdul	5/27/2025 11:51:32 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	2,4-DB #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	DCCA #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	MCPP	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
PB168137BS	PS030382.D	Picloram #2	Abdul	5/27/2025 11:53:28 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	2,4-DB #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software

Manual Integration Report

Sequence:	ps052325	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS030392.D	DCPA #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030392.D	Picloram #2	Abdul	5/27/2025 11:51:54 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
Q2100-01	PS030398.D	2,4-DCAA	Abdul	5/27/2025 11:52:10 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
Q2100-01	PS030398.D	2,4-DCAA #2	Abdul	5/27/2025 11:52:10 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	DCPA #2	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030404.D	Picloram #2	Abdul	5/27/2025 11:53:37 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	2,4,5-TP (SILVEX)	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	DCPA #2	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software
HSTDCCC750	PS030409.D	Picloram #2	Abdul	5/27/2025 11:52:57 AM	mohammad	5/28/2025 1:47:29	Peak Integrated by Software

Manual Integration Report

Sequence:

ps052925

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
I.BLK	PS030426.D	2,4-DCAA #2	Abdul	5/30/2025 7:50:38 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DCPA	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DCPA #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	DINOSEB #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030427.D	Picloram #2	Abdul	5/30/2025 7:50:43 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DCPA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DICAMBA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DICHLORPROP #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	DINOSEB #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	MCPA #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	MCPPP	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MS	PS030429.D	Picloram #2	Abdul	5/30/2025 7:50:51 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software

Manual Integration Report

Sequence:	ps052925	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2100-03MSD	PS030430.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DCPA	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DCPA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DICAMBA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	DINOSEB #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	MCPA #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
Q2100-03MSD	PS030430.D	Picloram #2	Abdul	5/30/2025 7:50:56 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
I.BLK	PS030433.D	2,4-DCAA #2	Abdul	5/30/2025 7:51:08 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	2,4,5-TP (SILVEX)	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	DCPA #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	DINOSEB #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software
HSTDCCC750	PS030434.D	Picloram #2	Abdul	5/30/2025 7:51:13 AM	mohammad	5/30/2025 8:31:48	Peak Integrated by Software



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Manual Integration Report

Sequence:

ps052925

Instrument

ECD_s

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030123.D	12 May 2025 11:42	AR\AJ	Ok
2	I.BLK	PS030124.D	12 May 2025 12:06	AR\AJ	Ok
3	HSTDICC200	PS030125.D	12 May 2025 12:30	AR\AJ	Ok,M
4	HSTDICC500	PS030126.D	12 May 2025 12:54	AR\AJ	Ok,M
5	HSTDICC750	PS030127.D	12 May 2025 13:18	AR\AJ	Ok,M
6	HSTDICC1000	PS030128.D	12 May 2025 13:42	AR\AJ	Ok,M
7	HSTDICC1500	PS030129.D	12 May 2025 14:06	AR\AJ	Ok,M
8	HSTDICV750	PS030130.D	12 May 2025 14:30	AR\AJ	Ok,M
9	I.BLK	PS030131.D	12 May 2025 14:54	AR\AJ	Ok
10	HSTDCCC750	PS030132.D	12 May 2025 15:18	AR\AJ	Ok,M
11	Q1972-01	PS030133.D	12 May 2025 15:42	AR\AJ	ReRun
12	Q1972-01RE	PS030134.D	12 May 2025 16:58	AR\AJ	Confirms
13	Q1972-05	PS030135.D	12 May 2025 17:46	AR\AJ	Ok,M
14	Q1972-05RE	PS030136.D	12 May 2025 18:10	AR\AJ	Not Ok
15	I.BLK	PS030137.D	12 May 2025 18:34	AR\AJ	Ok
16	HSTDCCC750	PS030138.D	12 May 2025 18:58	AR\AJ	Ok,M
17	PB167968BL	PS030139.D	12 May 2025 19:46	AR\AJ	Ok,M
18	PB167968BS	PS030140.D	12 May 2025 20:10	AR\AJ	Ok,M
19	PB167851TB	PS030141.D	12 May 2025 20:34	AR\AJ	Ok
20	Q1956-05	PS030142.D	12 May 2025 20:59	AR\AJ	Ok,M
21	Q1956-05MS	PS030143.D	12 May 2025 21:23	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

22	Q1956-05MSD	PS030144.D	12 May 2025 21:47	AR\AJ	Ok,M
23	I.BLK	PS030145.D	12 May 2025 22:11	AR\AJ	Ok
24	HSTDCCC750	PS030146.D	12 May 2025 22:35	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM
SubDirectory	PS052325	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030370.D	23 May 2025 09:07	AR\AJ	Ok
2	I.BLK	PS030371.D	23 May 2025 10:38	AR\AJ	Ok,M
3	HSTDCCC750	PS030372.D	23 May 2025 11:02	AR\AJ	Ok,M
4	PB168133BL	PS030373.D	23 May 2025 11:27	AR\AJ	Ok,M
5	PB168133BS	PS030374.D	23 May 2025 11:51	AR\AJ	Ok,M
6	PB168133BSD	PS030375.D	23 May 2025 12:15	AR\AJ	Ok,M
7	Q2088-01	PS030376.D	23 May 2025 12:39	AR\AJ	Ok
8	Q2093-14	PS030377.D	23 May 2025 13:03	AR\AJ	Ok
9	Q2102-03	PS030378.D	23 May 2025 13:27	AR\AJ	Ok
10	I.BLK	PS030379.D	23 May 2025 13:51	AR\AJ	Ok
11	HSTDCCC750	PS030380.D	23 May 2025 14:15	AR\AJ	Ok,M
12	PB168137BL	PS030381.D	23 May 2025 16:28	AR\AJ	Ok
13	PB168137BS	PS030382.D	23 May 2025 16:52	AR\AJ	Ok,M
14	Q2092-01	PS030383.D	23 May 2025 17:16	AR\AJ	Ok,M
15	Q2093-01	PS030384.D	23 May 2025 17:40	AR\AJ	Ok
16	Q2095-01	PS030385.D	23 May 2025 18:04	AR\AJ	Ok,M
17	Q2095-05	PS030386.D	23 May 2025 18:28	AR\AJ	Ok,M
18	Q2097-01	PS030387.D	23 May 2025 18:52	AR\AJ	Ok
19	Q2097-03	PS030388.D	23 May 2025 19:16	AR\AJ	Ok
20	Q2097-05	PS030389.D	23 May 2025 19:40	AR\AJ	Ok,M
21	Q2097-07	PS030390.D	23 May 2025 20:04	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM
SubDirectory	PS052325	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

22	I.BLK	PS030391.D	23 May 2025 20:28	AR\AJ	Ok
23	HSTDCCC750	PS030392.D	23 May 2025 20:52	AR\AJ	Ok,M
24	Q2097-09	PS030393.D	23 May 2025 21:40	AR\AJ	Ok
25	Q2097-11	PS030394.D	23 May 2025 22:04	AR\AJ	Ok,M
26	Q2097-13	PS030395.D	23 May 2025 22:29	AR\AJ	Ok
27	Q2097-15	PS030396.D	23 May 2025 22:53	AR\AJ	Ok,M
28	Q2097-17	PS030397.D	23 May 2025 23:17	AR\AJ	Ok,M
29	Q2100-01	PS030398.D	23 May 2025 23:41	AR\AJ	Ok,M
30	Q2100-02	PS030399.D	24 May 2025 00:05	AR\AJ	Ok
31	Q2100-03	PS030400.D	24 May 2025 00:29	AR\AJ	Ok
32	Q2100-03MS	PS030401.D	24 May 2025 00:53	AR\AJ	Not Ok
33	Q2100-03MSD	PS030402.D	24 May 2025 01:17	AR\AJ	Not Ok
34	I.BLK	PS030403.D	24 May 2025 01:41	AR\AJ	Ok
35	HSTDCCC750	PS030404.D	24 May 2025 02:05	AR\AJ	Ok,M
36	Q2100-04	PS030405.D	24 May 2025 02:53	AR\AJ	Ok
37	Q2101-01	PS030406.D	24 May 2025 03:17	AR\AJ	Ok,M
38	Q2109-01	PS030407.D	24 May 2025 03:42	AR\AJ	Ok,M
39	I.BLK	PS030408.D	24 May 2025 04:06	AR\AJ	Ok
40	HSTDCCC750	PS030409.D	24 May 2025 04:30	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052925

Review By	Abdul	Review On	5/30/2025 7:51:34 AM
Supervise By	mohammad	Supervise On	5/30/2025 8:31:48 AM
SubDirectory	PS052925	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS030425.D	29 May 2025 08:41	AR\AJ	Ok
2	I.BLK	PS030426.D	29 May 2025 09:05	AR\AJ	Ok,M
3	HSTDCCC750	PS030427.D	29 May 2025 09:29	AR\AJ	Ok,M
4	PB168172BS	PS030428.D	29 May 2025 13:46	AR\AJ	Ok,M
5	Q2100-03MS	PS030429.D	29 May 2025 14:19	AR\AJ	Ok,M
6	Q2100-03MSD	PS030430.D	29 May 2025 14:44	AR\AJ	Ok,M
7	Q2127-11MS	PS030431.D	29 May 2025 15:25	AR\AJ	Ok,M
8	Q2127-11MSD	PS030432.D	29 May 2025 15:49	AR\AJ	Ok,M
9	I.BLK	PS030433.D	29 May 2025 16:13	AR\AJ	Ok,M
10	HSTDCCC750	PS030434.D	29 May 2025 16:37	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030123.D	12 May 2025 11:42		AR\AJ	Ok
2	I.BLK	I.BLK	PS030124.D	12 May 2025 12:06		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS030125.D	12 May 2025 12:30		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS030126.D	12 May 2025 12:54		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS030127.D	12 May 2025 13:18		AR\AJ	Ok,M
6	HSTDICC1000	HSTDICC1000	PS030128.D	12 May 2025 13:42		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS030129.D	12 May 2025 14:06		AR\AJ	Ok,M
8	HSTDICV750	ICVPS051225	PS030130.D	12 May 2025 14:30		AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030131.D	12 May 2025 14:54		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS030132.D	12 May 2025 15:18		AR\AJ	Ok,M
11	Q1972-01	SUB-WC	PS030133.D	12 May 2025 15:42	Surrogate high in both column	AR\AJ	ReRun
12	Q1972-01RE	SUB-WCRE	PS030134.D	12 May 2025 16:58	Surrogate high in both column	AR\AJ	Confirms
13	Q1972-05	WC-B-10	PS030135.D	12 May 2025 17:46		AR\AJ	Ok,M
14	Q1972-05RE	WC-B-10RE	PS030136.D	12 May 2025 18:10	not needed	AR\AJ	Not Ok
15	I.BLK	I.BLK	PS030137.D	12 May 2025 18:34		AR\AJ	Ok
16	HSTDCCC750	HSTDCCC750	PS030138.D	12 May 2025 18:58		AR\AJ	Ok,M
17	PB167968BL	PB167968BL	PS030139.D	12 May 2025 19:46		AR\AJ	Ok,M
18	PB167968BS	PB167968BS	PS030140.D	12 May 2025 20:10		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS051225

Review By	Abdul	Review On	5/13/2025 9:35:21 AM
Supervise By	mohammad	Supervise On	5/14/2025 5:13:40 AM
SubDirectory	PS051225	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

19	PB167851TB	PB167851TB	PS030141.D	12 May 2025 20:34		AR\AJ	Ok
20	Q1956-05	COMP1	PS030142.D	12 May 2025 20:59		AR\AJ	Ok,M
21	Q1956-05MS	COMP1MS	PS030143.D	12 May 2025 21:23	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
22	Q1956-05MSD	COMP1MSD	PS030144.D	12 May 2025 21:47	Comp#1,6,14 recovery fail	AR\AJ	Ok,M
23	I.BLK	I.BLK	PS030145.D	12 May 2025 22:11		AR\AJ	Ok
24	HSTDCCC750	HSTDCCC750	PS030146.D	12 May 2025 22:35		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM
SubDirectory	PS052325	HP Acquire Method	HP Processing Method ps051225 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030370.D	23 May 2025 09:07		AR\AJ	Ok
2	I.BLK	I.BLK	PS030371.D	23 May 2025 10:38		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS030372.D	23 May 2025 11:02		AR\AJ	Ok,M
4	PB168133BL	PB168133BL	PS030373.D	23 May 2025 11:27		AR\AJ	Ok,M
5	PB168133BS	PB168133BS	PS030374.D	23 May 2025 11:51		AR\AJ	Ok,M
6	PB168133BSD	PB168133BSD	PS030375.D	23 May 2025 12:15		AR\AJ	Ok,M
7	Q2088-01	252820	PS030376.D	23 May 2025 12:39		AR\AJ	Ok
8	Q2093-14	WATER-COMP	PS030377.D	23 May 2025 13:03		AR\AJ	Ok
9	Q2102-03	LAW-25-0078	PS030378.D	23 May 2025 13:27		AR\AJ	Ok
10	I.BLK	I.BLK	PS030379.D	23 May 2025 13:51		AR\AJ	Ok
11	HSTDCCC750	HSTDCCC750	PS030380.D	23 May 2025 14:15		AR\AJ	Ok,M
12	PB168137BL	PB168137BL	PS030381.D	23 May 2025 16:28		AR\AJ	Ok
13	PB168137BS	PB168137BS	PS030382.D	23 May 2025 16:52		AR\AJ	Ok,M
14	Q2092-01	VNJ-202	PS030383.D	23 May 2025 17:16		AR\AJ	Ok,M
15	Q2093-01	SOIL-DRUM	PS030384.D	23 May 2025 17:40		AR\AJ	Ok
16	Q2095-01	WCS-TP1	PS030385.D	23 May 2025 18:04		AR\AJ	Ok,M
17	Q2095-05	WCS-TP2	PS030386.D	23 May 2025 18:28		AR\AJ	Ok,M
18	Q2097-01	ETGI-357	PS030387.D	23 May 2025 18:52		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM
SubDirectory	PS052325	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC	PP24559		
Internal Standard/PEM			
ICV/I.BLK	PP24562		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2097-03	RBR200044	PS030388.D	23 May 2025 19:16		AR\AJ	Ok
20	Q2097-05	RBR251675	PS030389.D	23 May 2025 19:40		AR\AJ	Ok,M
21	Q2097-07	VNJ-244	PS030390.D	23 May 2025 20:04		AR\AJ	Ok,M
22	I.BLK	I.BLK	PS030391.D	23 May 2025 20:28		AR\AJ	Ok
23	HSTDCCC750	HSTDCCC750	PS030392.D	23 May 2025 20:52		AR\AJ	Ok,M
24	Q2097-09	ETGI-290	PS030393.D	23 May 2025 21:40		AR\AJ	Ok
25	Q2097-11	RT3419	PS030394.D	23 May 2025 22:04		AR\AJ	Ok,M
26	Q2097-13	RBR251372	PS030395.D	23 May 2025 22:29		AR\AJ	Ok
27	Q2097-15	72-12013	PS030396.D	23 May 2025 22:53		AR\AJ	Ok,M
28	Q2097-17	RT-3888	PS030397.D	23 May 2025 23:17		AR\AJ	Ok,M
29	Q2100-01	TP-16	PS030398.D	23 May 2025 23:41		AR\AJ	Ok,M
30	Q2100-02	TP-22	PS030399.D	24 May 2025 00:05		AR\AJ	Ok
31	Q2100-03	TP-21	PS030400.D	24 May 2025 00:29		AR\AJ	Ok
32	Q2100-03MS	TP-21MS	PS030401.D	24 May 2025 00:53	some compound recovery fail	AR\AJ	Not Ok
33	Q2100-03MSD	TP-21MSD	PS030402.D	24 May 2025 01:17	recovery fail for some compounds, RPD fail for most of compunds	AR\AJ	Not Ok
34	I.BLK	I.BLK	PS030403.D	24 May 2025 01:41		AR\AJ	Ok
35	HSTDCCC750	HSTDCCC750	PS030404.D	24 May 2025 02:05		AR\AJ	Ok,M
36	Q2100-04	TP-45	PS030405.D	24 May 2025 02:53		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052325

Review By	yogesh	Review On	5/23/2025 12:05:59 PM
Supervise By	mohammad	Supervise On	5/28/2025 1:47:29 AM
SubDirectory	PS052325	HP Acquire Method	HP Processing Method ps051225 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560		
CCC Internal Standard/PEM	PP24559		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP24562		

37	Q2101-01	TP-1-MHE	PS030406.D	24 May 2025 03:17		AR\AJ	Ok,M
38	Q2109-01	TP-02-MHF	PS030407.D	24 May 2025 03:42		AR\AJ	Ok,M
39	I.BLK	I.BLK	PS030408.D	24 May 2025 04:06		AR\AJ	Ok
40	HSTDCCC750	HSTDCCC750	PS030409.D	24 May 2025 04:30		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS052925

Review By	Abdul	Review On	5/30/2025 7:51:34 AM
Supervise By	mohammad	Supervise On	5/30/2025 8:31:48 AM
SubDirectory	PS052925	HP Acquire Method	HP Processing Method ps051225 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560
CCC	PP24559
Internal Standard/PEM	
ICV/I.BLK	PP24562
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS030425.D	29 May 2025 08:41		AR\AJ	Ok
2	I.BLK	I.BLK	PS030426.D	29 May 2025 09:05		AR\AJ	Ok,M
3	HSTDCCC750	HSTDCCC750	PS030427.D	29 May 2025 09:29		AR\AJ	Ok,M
4	PB168172BS	PB168172BS	PS030428.D	29 May 2025 13:46		AR\AJ	Ok,M
5	Q2100-03MS	TP-21MS	PS030429.D	29 May 2025 14:19	Some compound recovery fail	AR\AJ	Ok,M
6	Q2100-03MSD	TP-21MSD	PS030430.D	29 May 2025 14:44	Some compound recovery fail	AR\AJ	Ok,M
7	Q2127-11MS	COMP-2MS	PS030431.D	29 May 2025 15:25	Some compound recovery fail	AR\AJ	Ok,M
8	Q2127-11MSD	COMP-2MSD	PS030432.D	29 May 2025 15:49	Some compound recovery fail	AR\AJ	Ok,M
9	I.BLK	I.BLK	PS030433.D	29 May 2025 16:13		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS030434.D	29 May 2025 16:37		AR\AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/22/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 05/21/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:20
Out Date: 05/22/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135864

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q2100-01	TP-16	1	1.15	10.12	11.27	10.1	88.4	
Q2100-02	TP-22	2	1.18	10.32	11.5	9.85	84.0	
Q2100-03	TP-21	3	1.19	10.32	11.51	9.26	78.2	
Q2100-04	TP-45	4	1.18	10.42	11.6	9.12	76.2	
Q2101-01	TP-1-MHE	5	1.19	9.85	11.04	10.44	93.9	
Q2101-02	TP-1-MHE-E2	6	1.19	10.48	11.67	11.11	94.7	
Q2101-03	TP-1-MHE-VOC	7	1.15	10.40	11.55	10.94	94.1	
Q2102-01	LAW-25-0077	8	1.18	10.48	11.66	10.3	87.0	
Q2102-02	LAW-25-0077-E2	9	1.13	9.57	10.7	9.54	87.9	
Q2103-01	245F59-FRONT	10	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-02	245F59-END	11	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-03	BC248114-FRONT	12	1.00	1.00	2.00	2.00	100.0	oilc
Q2103-04	BC248114-END	13	1.00	1.00	2.00	2.00	100.0	oilc
Q2104-01	TR-06-052125	14	1.18	10.28	11.46	10.63	91.9	
Q2104-02	TR-06-052125-E2	15	1.13	10.63	11.76	10.9	91.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

JB135864

WorkList Name : %1-052125

WorkList ID : 189658

Department : Wet-Chemistry

Date : 05-21-2025 08:23:00

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2100-01	TP-16	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-02	TP-22	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-03	TP-21	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2100-04	TP-45	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/20/2025	Chemtech -SO
Q2101-01	TP-1-MHE	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2101-02	TP-1-MHE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2101-03	TP-1-MHE-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/19/2025	Chemtech -SO
Q2102-01	LAW-25-0077	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/21/2025	Chemtech -SO
Q2102-02	LAW-25-0077-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	L21	05/21/2025	Chemtech -SO
Q2103-01	245F59-FRONT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-02	245F59-END	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-03	BC248114-FRONT	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2103-04	BC248114-END	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/21/2025	Chemtech -SO
Q2104-01	TR-06-052125	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/21/2025	Chemtech -SO
Q2104-02	TR-06-052125-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L31	05/21/2025	Chemtech -SO

Date/Time 05/21/25 15:30
 Raw Sample Received by: JAWOC
 Raw Sample Relinquished by: JAWOC

Date/Time 05/21/25 17:10
 Raw Sample Received by: JAWOC
 Raw Sample Relinquished by: JAWOC

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix: Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,4,5,7

Extraction Start Date: 05/23/2025

Extraction Start Time: 08:25

Extraction End Date: 05/23/2025

Extraction End Time: 16:00

Concentration By: EH

Supervisor By: RUPESH

Extraction Method: ☐ Separatory Funnel ☐ Continuous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	5/500 PPM	PP24484
Surrogate	1.0ML	5000 PPB	PP24552
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Acidified Na2SO4	N/A	EP2576
Sand	N/A	E2865
HCL	N/A	M6151
DI WATER	N/A	N/A
37% KOH	N/A	EP2594
Methylene Chloride	N/A	E3939
1:3 SULPHURIC ACID	N/A	EP2598
Ether	N/A	E3881
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14622
Diazomethane	N/A	EP2608
Hexane	N/A	E3938
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH adjusted with HCL <2 for soil Extraction, PH adjusted with 1:3 H2SO4 <2 after Hydrolysis, Derivatization procedure is completed and samples are ready to Analyze, 40ML Vial Lot # 03-40 BTS723.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/23/25 16:05	RS (Ext Lab)	Y.P. KSHIRKAR
	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 05/23/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168137BL	HBLK137	Herbicide	30.01	N/A	ritesh	Evelyn	10			U2-1
PB168137BS	HLCS137	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
Q2092-01	VNJ-202	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		3
Q2093-01	SOIL-DRUM	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		4
Q2095-01	WCS-TP1	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		5
Q2095-05	WCS-TP2	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		6
Q2097-01	ETGI-357	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		U3-1
Q2097-03	RBR200044	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		2
Q2097-05	RBR251675	Herbicide	30.09	N/A	ritesh	Evelyn	10	E		3
Q2097-07	VNJ-244	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		4
Q2097-09	ETGI-290	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		5
Q2097-11	RT3419	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		6
Q2097-13	RBR251372	Herbicide	30.04	N/A	ritesh	Evelyn	10	E		U6-1
Q2097-15	72-12013	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		2
Q2097-17	RT-3888	Herbicide	30.05	N/A	ritesh	Evelyn	10	E		3
Q2100-01	TP-16	Herbicide	30.07	N/A	ritesh	Evelyn	10	E		4
Q2100-02	TP-22	Herbicide	30.02	N/A	ritesh	Evelyn	10	E		5
Q2100-03	TP-21	Herbicide	30.06	N/A	ritesh	Evelyn	10	E		6
Q2100-03MS	TP-21MS	Herbicide	30.01	N/A	ritesh	Evelyn	10	E		U1-1
Q2100-03MS D	TP-21MSD	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		2
Q2100-04	TP-45	Herbicide	30.03	N/A	ritesh	Evelyn	10	E		3
Q2101-01	TP-1-MHE	Herbicide	30.04	N/A	ritesh	Evelyn	10	C		4
Q2109-01	TP-02-MHF	Herbicide	30.08	N/A	ritesh	Evelyn	10	E		5

* Extracts relinquished on the same date as received.

RS
5/23

168137
08.25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2100H WorkList ID : 189722 Department : Extraction Date : 05-23-2025 08:20:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2092-01	VNJ-202	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2093-01	SOIL-DRUM	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2095-01	WCS-TP1	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2095-05	WCS-TP2	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-01	ETGI-357	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-03	RBR200044	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-05	RBR251675	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-07	VNJ-244	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-09	ETGI-290	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-11	RT3419	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-13	RBR251372	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-15	72-12013	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2097-17	RT-3888	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/20/2025	8151A
Q2100-01	TP-16	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-02	TP-22	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-03	TP-21	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2100-04	TP-45	Solid	Herbicide	Cool 4 deg C	CAMP02	L41	05/20/2025	8151A
Q2101-01	TP-1-MHE	Solid	Herbicide	Cool 4 deg C	PSEG03	L41	05/19/2025	8151A
Q2109-01	TP-02-MHF	Solid	Herbicide	Cool 4 deg C	PSEG03	L31	05/20/2025	8151A

Date/Time 05/23/25 8:20
Raw Sample Received by: RS C. E. L. L. (Veb) Off
Raw Sample Relinquished by: Off

Date/Time 05/23/25 8:50
Raw Sample Received by: Off
Raw Sample Relinquished by: RS C. E. L. L. (Veb) Off

Prep Standard - Chemical Standard Summary

Order ID : Q2100

Test : Herbicide

Prepbatch ID : PB168137,

Sequence ID/Qc Batch ID: ps052325,ps052925,

Standard ID :

EP2576,EP2612,PP24484,PP24552,PP24553,PP24554,PP24556,PP24557,PP24558,PP24559,PP24560,PP24561,PP24562,

Chemical ID :

E2865,E3370,E3551,E3929,E3930,E3932,E3933,M5173,M6151,P11182,P11183,P12620,P12630,P12689,P12710,P13532,P13533,P13534,P13968,P13969,P13971,P8829,

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP24484	04/23/2025	10/23/2025	Abdul Mirza	None	None	Yogesh Patel
								05/03/2025

FROM 0.50000ml of P13534 + 1.00000ml of P13532 + 1.00000ml of P13533 + 47.75000ml of E3929 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP24552	05/08/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 1.25000ml of P11182 + 1.25000ml of P13968 + 1.25000ml of P13969 + 195.00000ml of E3933 = Final Quantity: 200.000 ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1456	200 PPB Herb MIX STD	PP24556	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.90000ml of E3933 + 0.10000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1455	500 PPB Herb MIX STD	PP24557	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.75000ml of E3933 + 0.25000ml of PP24553 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1453	1000 PPB Herb MIX STD	PP24558	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1454	750 PPB Herb MIX STD	PP24559	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24558 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1452	1500 PPB HERB MIX STD	PP24560	05/12/2025	11/05/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.25000ml of E3933 + 0.75000ml of PP24553 = Final Quantity: 1.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1854	1000 PPB HERB MIX ICV STD	PP24561	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
								05/22/2025

FROM 0.50000ml of E3933 + 0.50000ml of PP24554 = Final Quantity: 1.000 ml

Pest/Pcb STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1691	750 PPB ICV HERB STD	PP24562	05/12/2025	08/12/2025	Abdul Mirza	None	None	Yogesh Patel
05/22/2025								
<u>FROM</u>	0.25000ml of E3933 + 0.75000ml of PP24561 = Final Quantity: 1.000 ml							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9244-03 / Ether, Anhydrous, Purified (cs/4x4L)	0000288039	07/17/2025	08/01/2022 / Rajesh	07/13/2022 / Rajesh	E3370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	04/18/2027	04/18/2025 / RUPESH	04/16/2025 / RUPESH	E3929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	25C0362005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3933

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 /	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	08/18/2025	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	11/08/2025	05/08/2025 / Abdul	11/01/2021 / Abdul	P11182

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0172864	11/12/2025	05/12/2025 / Abdul	11/01/2021 / Abdul	P11183

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32062 / Herbicide Mix, 500/8000, Standard #4 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0155055	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12620

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A192429	11/12/2025	05/12/2025 / Abdul	07/03/2023 / Abdul	P12630

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32059 / Herbicide Mix#3 (Methyl Ester), 20000 ug/ml	A0199844	11/12/2025	05/12/2025 / Abdul	07/24/2023 / Abdul	P12689

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	08/12/2025	05/12/2025 / Abdul	08/09/2023 / Abdul	P12710

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151M / Chlorinated Herbicide Mixtures, Methyl Esters	0006752480	08/12/2025	05/12/2025 / Abdul	08/09/2023 / Abdul	P12710

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13532

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13533

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	0006810955	10/23/2025	04/23/2025 / Abdul	09/03/2024 / Abdul	P13534

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	11/08/2025	05/08/2025 / Abdul	04/02/2025 / Abdul	P13968

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	11/08/2025	05/08/2025 / Abdul	04/02/2025 / Abdul	P13969

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32050 / Herbicide, 8000 series, 515 Surrogate [ester] 2,4-dichlorophenyl acetic acid methyl ester, 1mL, 200ug/mL, Hexane	A0221255	11/12/2025	05/12/2025 / Abdul	04/02/2025 / Abdul	P13971

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32254 / Dalapon Methyl Ester, 1000 ug/ml	A0148063	11/12/2025	05/12/2025 / Abdul	08/16/2019 / Stephen	P8829

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

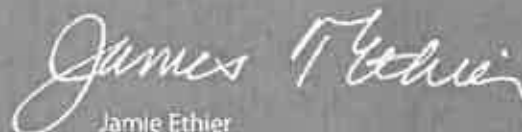
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Ether, Anhydrous
BAKER ANALYZED® A.C.S. Reagent
Contains BHT as a Preservative
Suitable for Fat Extraction



Material No.: 9244-03
Batch No.: 0000288039
Manufactured Date: 2021/07/22
Expiration Date: 2023/07/22
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

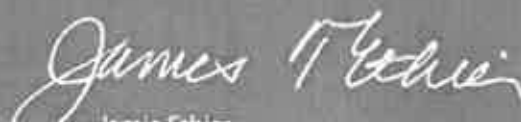
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation	<= 0.0010 %	< 0.0010
Titration Acid (μeq/g)	<= 0.2	< 0.2
Water (by KF, coulometric)	<= 0.01 %	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US

Recd. by RP on 7/13/22

E 3370


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3929

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8 \%$	99.9 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02 \%$	<0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3930

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

n-Hexane 95%
ULTRA RESI-ANALYZED
For Organic Residue Analysis

 **avantorsTM**



Material No.: 9262-03

Batch No.: 25C0362005

Manufactured Date: 2025-01-29

Expiration Date: 2026-04-30

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	6
ECD-Sensitive Impurities (as EthyleneDibromide) - Single Impurity Peak (ng/mL)	≤ 5	5
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	100.0 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	100 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	$\leq 0.05 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3933



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Hydrochloric Acid, 36.5–38.0%
 BAKER INSTRA-ANALYZED® Reagent
 For Trace Metal Analysis



Material No.: 9530-33
 Batch No.: 0000281827
 Manufactured Date: 2021/03/30
 Retest Date: 2026/03/29
 Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.6
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	1
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.189
ACS – Bromide (Br)	<= 0.005 %	< 0.005
ACS – Extractable Organic Substances	<= 5 ppm	< 1
ACS – Free Chlorine (as Cl ₂)	<= 0.5 ppm	< 0.5
Phosphate (PO ₄)	<= 0.05 ppm	< 0.03
Sulfate (SO ₄)	<= 0.5 ppm	< 0.3
Sulfite (SO ₃)	<= 0.8 ppm	0.3
Ammonium (NH ₄)	<= 3 ppm	< 1
Trace Impurities – Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities – Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities – Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities – Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities – Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities – Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities – Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities – Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities – Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities – Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities – Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities – Gallium (Ga)	<= 1.0 ppb	< 0.2

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
 Avantor Performance Materials, LLC
 100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Test	Specification	Result
Trace Impurities – Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities – Gold (Au)	<= 4.0 ppb	3.0
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities – Iron (Fe)	<= 15.0 ppb	1.0
Trace Impurities – Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities – Lithium (Li)	<= 1.0 ppb	< 0.2
Trace Impurities – Magnesium (Mg)	<= 10.0 ppb	< 0.4
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	0.2
Trace Impurities – Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities – Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities – Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities – Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities – Selenium (Se), For Information Only	ppb	1.0
Trace Impurities – Silicon (Si)	<= 100.0 ppb	18.0
Trace Impurities – Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities – Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities – Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities – Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities – Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities – Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities – Titanium (Ti)	<= 1.0 ppb	< 0.2
Trace Impurities – Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities – Zinc (Zn)	<= 5.0 ppb	0.4
Trace Impurities – Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use

Product Information (not specifications):

Appearance (clear, fuming liquid)

Meets ACS Specifications

Country of Origin: US

Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™



M6151

R → 11/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid–base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

 **avantorsm**



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities – Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities – Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities – Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities – Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities – Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities – Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA–ANALYZED® Reagent
For Trace Metal Analysis



Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
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For Laboratory, Research, or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

A handwritten signature in cursive script that reads 'Jamie Ethier'.
Jamie Ethier
Vice President Global Quality

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

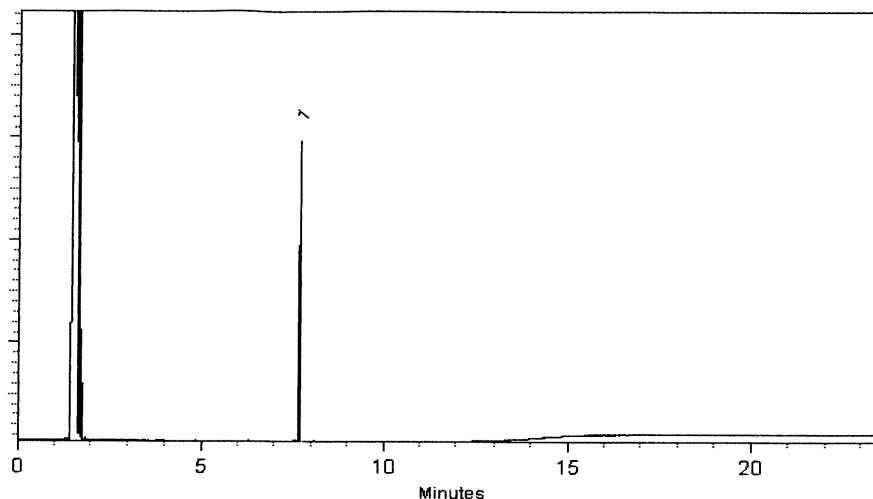
250°C

Det. Temp:

330°C

Det. Type:

FID

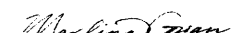


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 29, 2028 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
↓
P11186
—
AR
01/02/21

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

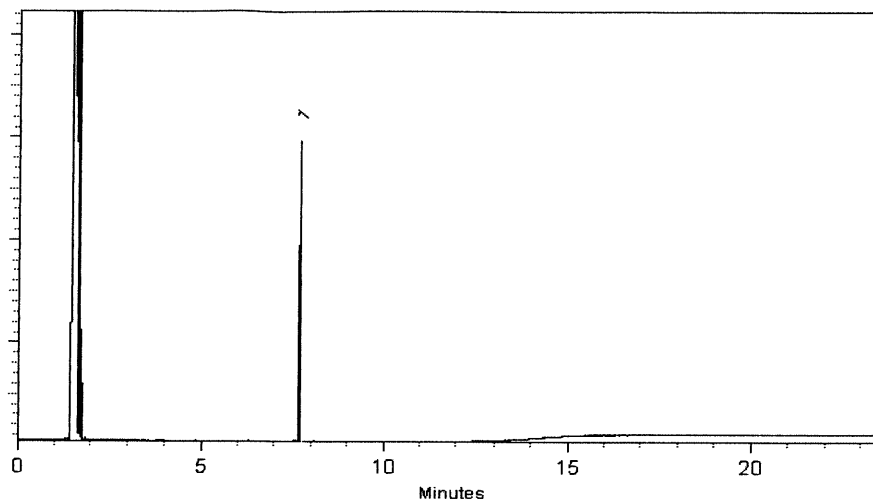
250°C

Det. Temp:

330°C

Det. Type:

FID

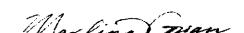


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Katelyn McGinnis - Operations Tech I

Date Mixed: 28-May-2021

Balance: B345965662


Marlene Cowan - Operations Tech I

Date Passed: 02-Jun-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

1911177
70
P 111 86
AR
11/02/21



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0172864
Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard
515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : February 29, 2028 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	202.0 µg/mL	+/- 1.4323 µg/mL Gravimetric
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.8182 µg/mL Unstressed
	Purity 99%		+/- 6.8182 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
Purity 99%

P11177
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P11186
AR
01/02/21



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32062 **Lot No.:** A0155055

Description : Herbicide Mix #4/ME (Methyl Ester)

Herbicide Mix #4/ME (Methyl Ester) 200µg/mL,
Hexane/Methyl-tert-butyl-ether, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2026 **Storage:** 10°C or colder

P12616 / (5)
↓
P12620
✓ *Paul* =
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)			
1	3,5-Dichlorobenzoic acid methyl ester CAS # 2905-67-1 (Lot 3903900) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
2	4-Nitroanisole CAS # 100-17-4 (Lot 24765/7) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
3	Pentachloroanisole CAS # 1825-21-4 (Lot 7921100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
4	Chloramben methyl ester CAS # 7286-84-2 (Lot 6487100) Purity 98%	199.9 µg/mL	+/- 1.4176	µg/mL	Gravimetric	
			+/- 6.7480	µg/mL	Unstressed	
			+/- 6.7480	µg/mL	Stressed	
5	Bentazon methyl ester CAS # 61592-45-8 (Lot 817100) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	
6	Picloram methyl ester CAS # 14143-55-6 (Lot 386-21B) Purity 98%	201.9 µg/mL	+/- 1.4315	µg/mL	Gravimetric	
			+/- 6.8141	µg/mL	Unstressed	
			+/- 6.8141	µg/mL	Stressed	
7	DCPA methyl ester (Chlorthal-dimethyl) CAS # 1861-32-1 (Lot 8008700) Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
			+/- 6.7507	µg/mL	Unstressed	
			+/- 6.7507	µg/mL	Stressed	

8	Acifluorfen methyl ester	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
	CAS # 50594-67-7 (Lot 6282300)		+/- 6.7507	µg/mL	Unstressed
	Purity 99%		+/- 6.7507	µg/mL	Stressed

Solvent: Hexane/Methyl-tert-butyl-ether
CAS # 110-54-3/1634-04-4
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

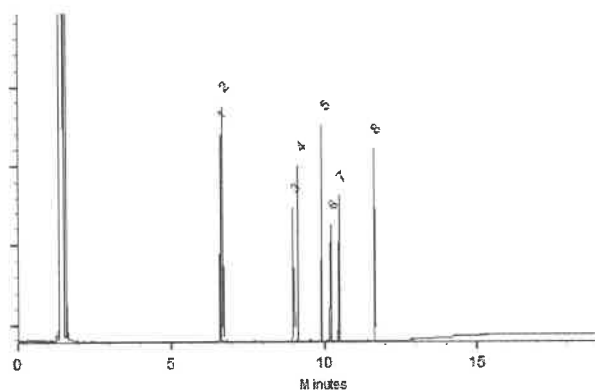
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Michael Maje

Date Mixed: 14-Nov-2019 **Balance:** 1128353505

Justine Albertson
Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32055 **Lot No.:** A0192429

Description : Herbicide Mix #1/ME (Methyl Ester)
Herbicide Mix #1/ME (Methyl Ester) 200 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P12626 / 5
P12630
7/5/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dicamba methyl ester	6597-78-0	11705400	99%	201.6 µg/mL	+/- 3.4204
2	Dichlorprop methyl ester	57153-17-0	11672100	99%	201.4 µg/mL	+/- 3.4170
3	2,4-D methyl ester	1928-38-7	10048000	99%	201.2 µg/mL	+/- 3.4136
4	2,4,5-TP (silvex) methyl ester	4841-20-7	6364900	99%	201.2 µg/mL	+/- 3.4136
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	200.7 µg/mL	+/- 3.4052
6	Dinoseb methyl ether	6099-79-2	12914300	99%	200.8 µg/mL	+/- 3.4068
7	2,4-DB methyl ester	18625-12-2	12542000	99%	201.0 µg/mL	+/- 3.4102

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

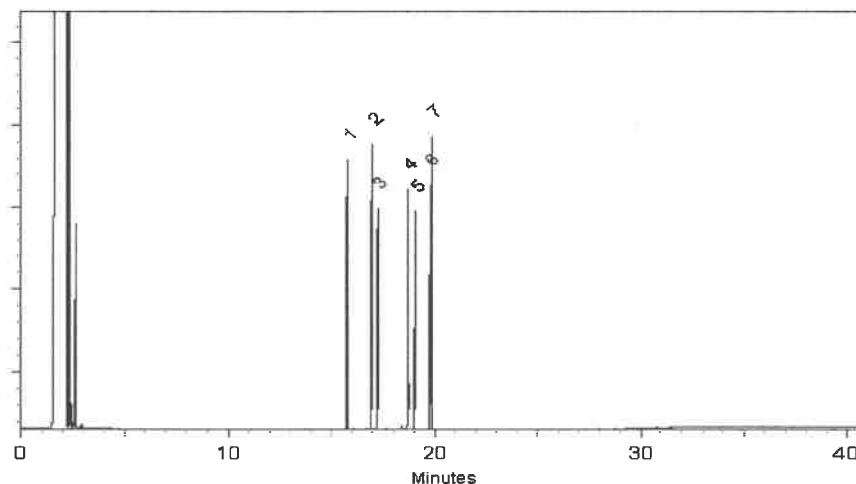
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Penelope Riglin - Operations Tech I

Date Mixed: 09-Dec-2022

Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 12-Dec-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Bellefonte, PA 16823-8812
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32059 **Lot No.:** A0199844

Description : Herbicide Mix #3/ME (Methyl Ester)
Herbicide Mix #3/ME (Methyl Ester) 20,000 µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2030 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

P 12685 / (S)
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P 12689
↓
RAU = 7/24/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	MCPP (Mecoprop) methyl ester	23844-56-6	14546400	99%	20,035.0 µg/mL	+/- 360.1907
2	MCPA methyl ester	2436-73-9	SL201209	99%	20,055.0 µg/mL	+/- 360.5503

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

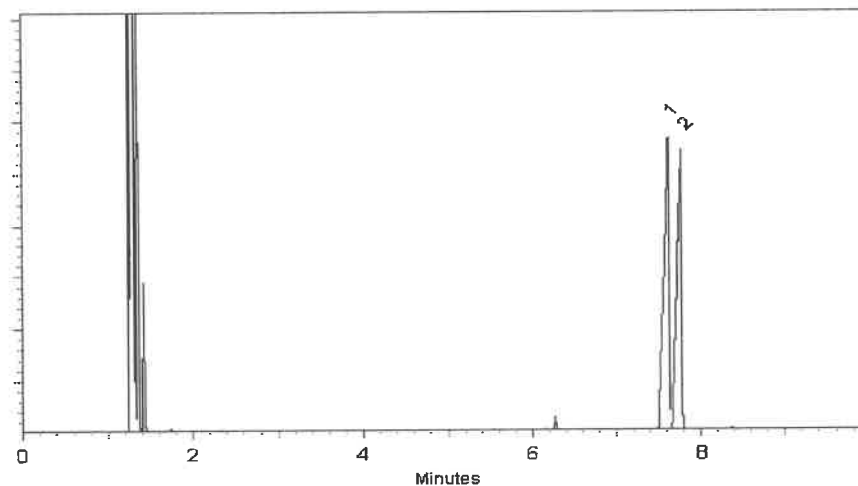
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 12-Jul-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 19-Jul-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

P12706
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P12715
/ (10)
/ 1
/ 8/15/23

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Methylated Herbicides Standard

Lot Number: 0006752480

Product Number: HBM-8151M-1

Lot Issue Date: 18-Jul-2023

Storage Conditions: Store at Room Temperature (15° to 30°C).

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen methyl ester	100.3 ±	0.5 µg/mL	050594-67-7	RM03058
bentazon methyl derivative	100.2 ±	0.5 µg/mL	061592-45-8	RM13829
chloramben methyl ester	100.4 ±	0.5 µg/mL	007286-84-2	RM03055
2,4-D methyl ester	100.2 ±	0.5 µg/mL	001928-38-7	RM03040
dalapon methyl ester	100.4 ±	0.5 µg/mL	017640-02-7	RM14219
2,4-DB methyl ester	100.2 ±	0.5 µg/mL	018625-12-2	RM03029
DCPA	100.2 ±	0.5 µg/mL	001861-32-1	RM13426
dicamba methyl ester	100.4 ±	0.5 µg/mL	006597-78-0	RM03039
methyl-3,5-dichlorobenzoate	100.1 ±	0.5 µg/mL	002905-67-1	RM03048
dichlorprop methyl ester	100.4 ±	0.5 µg/mL	057153-17-0	NT02086
dinoseb methyl ether	100.5 ±	0.5 µg/mL	006099-79-2	RM03051
MCPA methyl ester	10031 ±	50 µg/mL	002436-73-9	RM12863
MCPP methyl ester	10031 ±	50 µg/mL	023844-56-6	RM20060
4-nitroanisole	100.3 ±	0.5 µg/mL	000100-17-4	RM02806
pentachloroanisole	100.4 ±	0.5 µg/mL	001825-21-4	RM02457
picloram methyl ester	100.2 ±	0.5 µg/mL	014143-55-6	RM03044
silvex methyl ester	100.2 ±	0.5 µg/mL	004841-20-7	RM03799
2,4,5-T methyl ester	100.4 ±	0.5 µg/mL	001928-37-6	RM03033

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:

This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

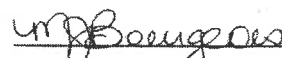
Expiration of Certification:

The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:


Monica Bourgeois
QMS Representative

P12706 / (10)
↓
P12715
✓ RAUF
8.15.23



ISO 17034
Cert No. AR-1936

RM was produced in accordance with the TUV/SUD registered ISO
9001:2015 Quality Management System. Cert# 951215321

Page: 2 of 2

www.agilent.com/quality/
CSD-QA-015.2

ISO 17025
Cert No. AT-1937

**Reference Material Certificate
Product Information Sheet**

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520
↓
P13536 } (18)

BACF
9/4/2024

**Reference Material Certificate
Product Information Sheet**

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520
↓
P13536 } (18)

BACF
9/4/2024

**Reference Material Certificate
Product Information Sheet**

Product Name: Chlorinated Herbicides Standard
Product Number: HBM-8151A-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006810955
Lot Issue Date: 20-Aug-2024
Expiration Date: 30-Sep-2026

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
acifluorfen	100.2 ±	0.5 µg/mL	050594-66-6	NT02057
bentazon	100.4 ±	0.5 µg/mL	025057-89-0	RM21359
chloramben	100.3 ±	0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.4 ±	0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4 ±	0.5 µg/mL	000075-99-0	RM19677
2,4-DB	100.1 ±	0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.4 ±	0.5 µg/mL	002136-79-0	RM15140
dicamba	100.3 ±	0.5 µg/mL	001918-00-9	RM22113
3,5-dichlorobenzoic acid	100.4 ±	0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.2 ±	0.5 µg/mL	000120-36-5	RM21688
dinoseb	100.3 ±	0.5 µg/mL	000088-85-7	RM22275
MCPA	10019 ±	50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10011 ±	50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.4 ±	0.5 µg/mL	000100-02-7	RM02391
pentachlorophenol	100.2 ±	0.5 µg/mL	000087-86-5	RM02474
picloram	100.4 ±	0.5 µg/mL	001918-02-1	RM20442
silvex	100.5 ±	0.5 µg/mL	000093-72-1	RM22116
2,4,5-T	100.3 ±	0.5 µg/mL	000093-76-5	RM19314

Matrix: methanol (methyl alcohol)

Description:

This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

P13520
↓
P13536 } (18)

BACF
9/4/2024



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0221255

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

13968
↓
13977

10

AWF
4/16/2025

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

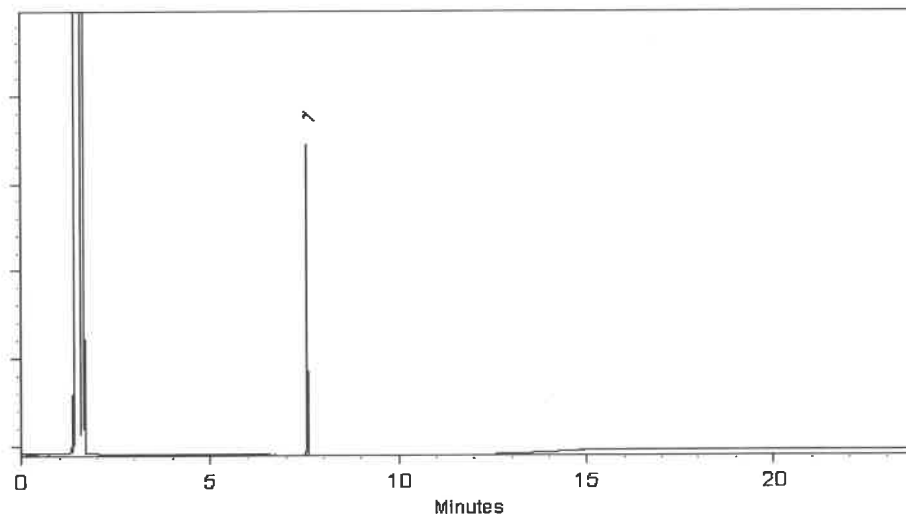
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025 **Balance Serial #** B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0221255

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

13968
↓
13977

10

AWF
4/16/2025

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

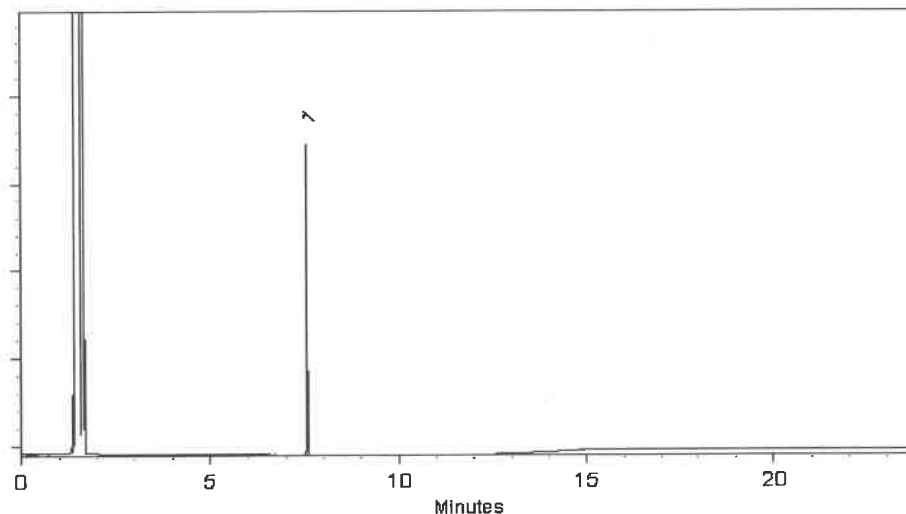
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025 **Balance Serial #** B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

Manufactured under Restek's ISO 9001:2015
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chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32050 **Lot No.:** A0221255

Description : 2,4-Dichlorophenylacetic Acid Methyl Ester Standard

515 Surrogate (ester) 2, 4-dichlorophenyl Acetic Acid Methyl Ester
200µg/mL, Hexane, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2031 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester	55954-23-9	13054200	99%	202.0 µg/mL	+/- 3.4272

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Hexane
CAS # 110-54-3
Purity 99%

13968
↓
13977

10

AWF
4/16/2025

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

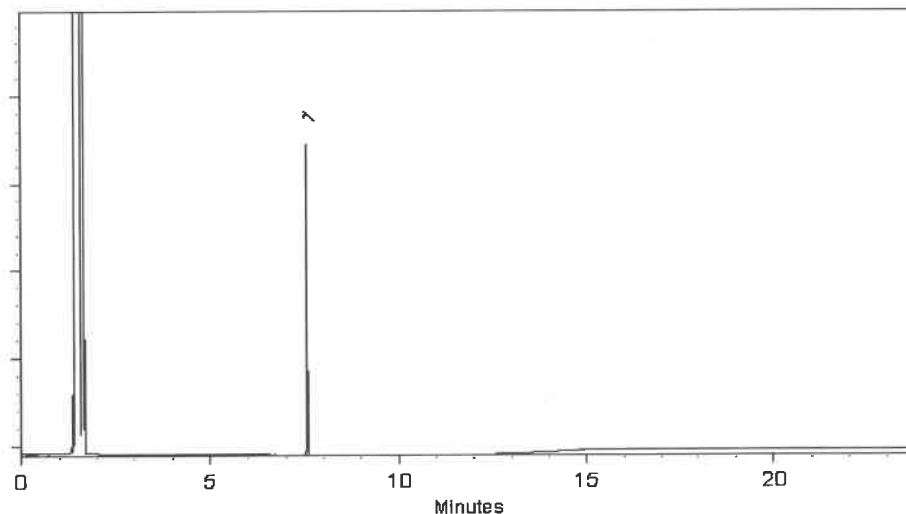
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 20-Jan-2025

Balance Serial # B345965662


Brittany Federinko - Operations Tech I

Date Passed: 22-Jan-2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01



ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32254 **Lot No.:** A0148063
Description : Dalapon methyl ester Standard
Dalapon methyl ester 1000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : April 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 8/16/19
P8828
P8826

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Dalapon methyl ester	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric
	CAS # 17640-02-7 (Lot 1764600)		+/- 34.4896 µg/mL Unstressed
	Purity 98%		+/- 34.4896 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

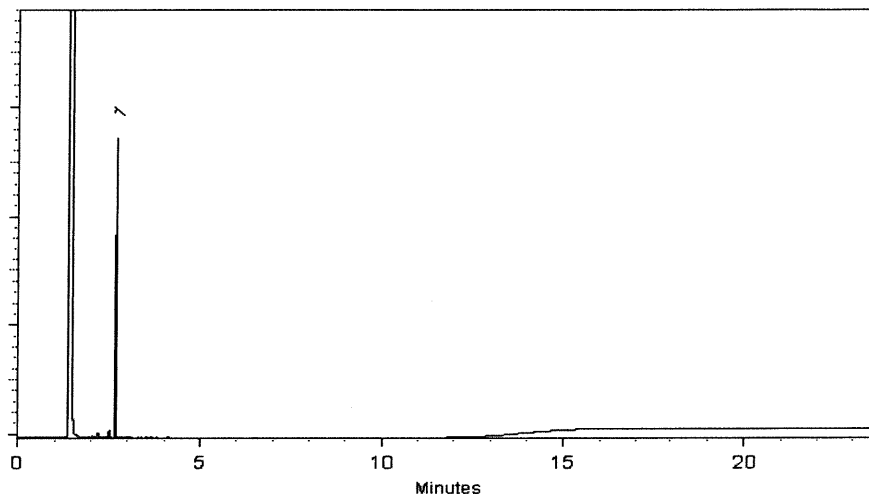
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2019

Balance: 1127510105

Feng-Yin Lo - QC Analyst

Date Passed: 15-Apr-2019

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: CDM SMITH
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS
PHONE: 7325904679 FAX: 7322257851

CLIENT PROJECT INFORMATION

PROJECT NAME: SOUTH RIVER WM REPLACEMENT
PROJECT NO.: 302781 LOCATION: SOUTH RIVER, NJ
PROJECT MANAGER: MARCIE ENCINAS
e-mail: ENCINASMA@CDM SMITH.COM
PHONE: 7325904679 FAX: 7322257851

CLIENT BILLING INFORMATION

BILL TO: CDM SMITH PO#:
ADDRESS: 110 FIELDCREST AVE #8 6TH FLOOR
CITY EDISON STATE: NJ ZIP: 08837
ATTENTION: MARCIE ENCINAS PHONE: 7325904679

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☒ Level 2 (Results + QC) ☒ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. 2. 3. 4. 5. 6. 7. 8. 9.
TCL VOC
TCL SVOC
TAL METALS
PCB
PESTICIDES
HERBICIDES
DRO/GRO

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	TP-16	SOIL		X	5/19/25	1515	6	X	X	X	X	X	X	X			E
2.	TP-22	SOIL		X	5/19/25	1055	6	X	X	X	X	X	X	X			E
3.	TP-21	SOIL		X	5/20/25	0845	6	X	X	X	X	X	X	X			E
4.	TP-45	SOIL		X	5/20/25	1050	6	X	X	X	X	X	X	X			E
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP: 3.8 °C
1. [Signature]	5/20/25	1. [Signature] 5-20-25	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2. [Signature]		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
3. [Signature]	5-20-25	3. [Signature]	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2100	CAMP02	Order Date : 5/20/2025 3:22:00 PM	Project Mgr :
Client Name : CDM Smith		Project Name : South River WM Replacem	Report Type : Level ^{NO} 1 Reduce
Client Contact : Marcie Ann Encinas		Receive DateTime : 5/20/2025 12:00:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : CDM Smith		Purchase Order : 16 95	Hard Copy Date :
Invoice Contact : Marcie Ann Encinas			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2100-01	TP-16	Solid	05/20/2025 05/19/2025	15:15	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-02	TP-22	Solid	05/20/2025 05/19/2025	10:55	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-03	TP-21	Solid	05/20/2025	08:45	VOC-TCLVOA-10		8260D		10 Bus. Days
Q2100-04	TP-45	Solid	05/20/2025	10:50	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By : al

Date / Time : 5/21/25 945

Received By : hmdada

Date / Time : 5-21-25 10:25

Storage Area : VOA Refridgerator Room