

Cover Page

Order ID : P4258

Project ID : Perth Amboy

Client : Roman E&G Corp

Lab Sample Number

P4258-01
P4258-02
P4258-03
P4258-04

Client Sample Number

Chamberlain Ave
Chamberlain Ave
Chamberlain Ave
Chamberlain Ave

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: 10/15/2024

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 #: P4258

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: MAYUR DESAI

Date: 10/15/2024

LAB CHRONICLE

OrderID:	P4258	OrderDate:	10/1/2024 1:21:00 PM
Client:	Roman E&G Corp	Project:	Perth Amboy
Contact:	Mark Mattheiss	Location:	H11,H51,K11,K21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4258-03	Chamberlain Ave	SOIL			10/01/24			10/01/24
			Herbicide	8151A		10/11/24	10/11/24	
			PCB	8082A		10/02/24	10/02/24	
			Pesticide-TCL	8081B		10/11/24	10/11/24	
P4258-04	Chamberlain Ave	TCLP			10/01/24			10/01/24
			TCLP Herbicide	8151A		10/03/24	10/04/24	
			TCLP Pesticide	8081B		10/03/24	10/03/24	



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

Hit Summary Sheet
SW-846

SDG No.: P4258

Order ID: P4258

Client: Roman E&G Corp

Project ID: Perth Amboy

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.: P4258

Client: Roman E&G Corp

Analytical Method: 8151A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS027854.D	PIBLK-PS027854.D	2,4-DCAA	1	500	510	102		39	175
		2,4-DCAA	2	500	479	96		39	175
I.BLK-PS027904.D	PIBLK-PS027904.D	2,4-DCAA	1	500	520	104		39	175
		2,4-DCAA	2	500	485	97		39	175
PB164060BL	PB164060BL	2,4-DCAA	1	500	487	97		10	141
		2,4-DCAA	2	500	436	87		10	141
PB164060BS	PB164060BS	2,4-DCAA	1	500	590	118		10	141
		2,4-DCAA	2	500	532	106		10	141
P4258-03	Chamberlain Ave	2,4-DCAA	1	500	257	51		10	141
		2,4-DCAA	2	500	190	38		10	141
P4385-02MS	SP-1MS	2,4-DCAA	1	500	490	98		10	141
		2,4-DCAA	2	500	361	72		10	141
P4385-02MSD	SP-1MSD	2,4-DCAA	1	500	511	102		10	141
		2,4-DCAA	2	500	371	74		10	141
I.BLK-PS027915.D	PIBLK-PS027915.D	2,4-DCAA	1	500	518	104		39	175
		2,4-DCAA	2	500	484	97		39	175

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: 8151A

DataFile : PS027910.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID: P4385-02MS	SP-IMS											
	DICAMBA	178	0	94.8	ug/Kg	53				10	112	
	DICHLORPROP	178	0	80.0	ug/Kg	45				10	113	
	2,4-D	178	0	102	ug/Kg	57				10	144	
	2,4,5-TP(Silvex)	178	0	56.7	ug/Kg	32				10	114	
	2,4,5-T	178	0	72.3	ug/Kg	41				10	115	
	2,4-DB	178	0	88.2	ug/Kg	50				10	140	
	Dinoseb	178	0	0	ug/Kg	0	*			10	118	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: 8151A

DataFile : PS027911.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID: P4385-02MSD	SP-1MSD											
	DICAMBA	178.1	0	96.3	ug/Kg	54		2		10	112	20
	DICHLORPROP	178.1	0	81.1	ug/Kg	46		2		10	113	20
	2,4-D	178.1	0	101	ug/Kg	57		0		10	144	20
	2,4,5-TP(Silvex)	178.1	0	55.6	ug/Kg	31		3		10	114	20
	2,4,5-T	178.1	0	71.4	ug/Kg	40		2		10	115	20
	2,4-DB	178.1	0	55.3	ug/Kg	31		47	*	10	140	20
	Dinoseb	178.1	0	0	ug/Kg	0	*	0		10	118	20



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

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4258

Client: Roman E&G Corp

Analytical Method: 8151A Datafile : PS027907.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164060BS	DICAMBA	166.6	160	ug/Kg	96				72	129	
	DICHLORPROP	166.6	170	ug/Kg	102				77	135	
	2,4-D	166.6	197	ug/Kg	118				65	144	
	2,4,5-TP(Silvex)	166.6	176	ug/Kg	106				74	146	
	2,4,5-T	166.6	164	ug/Kg	98				77	134	
	2,4-DB	166.6	186	ug/Kg	112				72	122	
	Dinoseb	166.6	162	ug/Kg	97				74	132	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164060BL

Lab Name: CHEMTECH

Contract: ROMA02

Lab Code: CHEM Case No.: P4258

SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: PB164060BL

Lab File ID: PS027906.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 10/11/2024

Date Analyzed (1): 10/11/2024

Date Analyzed (2): 10/11/2024

Time Analyzed (1): 17:39

Time Analyzed (2): 17:39

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
PB164060BS	PB164060BS	PS027907.D	10/11/2024	10/11/2024
Chamberlain Ave	P4258-03	PS027908.D	10/11/2024	10/11/2024
SP-1MS	P4385-02MS	PS027910.D	10/11/2024	10/11/2024
SP-1MSD	P4385-02MSD	PS027911.D	10/11/2024	10/11/2024

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/01/24
Project:	Perth Amboy	Date Received:	10/01/24
Client Sample ID:	Chamberlain Ave	SDG No.:	P4258
Lab Sample ID:	P4258-03	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	86
Sample Wt/Vol:	30.04	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
PS027908.D	1	10/11/24 08:31	10/11/24 18:27	PB164060

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	10.1	U	10.1	77.8	ug/Kg
120-36-5	DICHLORPROP	11.1	U	11.1	77.8	ug/Kg
94-75-7	2,4-D	14.1	U	14.1	77.8	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.9	U	10.9	77.8	ug/Kg
93-76-5	2,4,5-T	11.7	U	11.7	77.8	ug/Kg
94-82-6	2,4-DB	21.3	U	21.3	77.8	ug/Kg
88-85-7	DINOSEB	14.4	U	14.4	77.8	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	257		10 - 141	51%	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\PS101124\
 Data File : PS027908.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 18:27
 Operator : AR\AJ
 Sample : P4258-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
ClientSampleId :
 Chamberlain Ave

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/14/2024
 Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 00:55:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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
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 System Monitoring Compounds

4) S	2,4-DCAA	7.095	7.623	692.9E6	188.5E6	257.161m	189.677m#
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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\PS101124\
Data File : PS027908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:27
Operator : AR\AJ
Sample : P4258-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

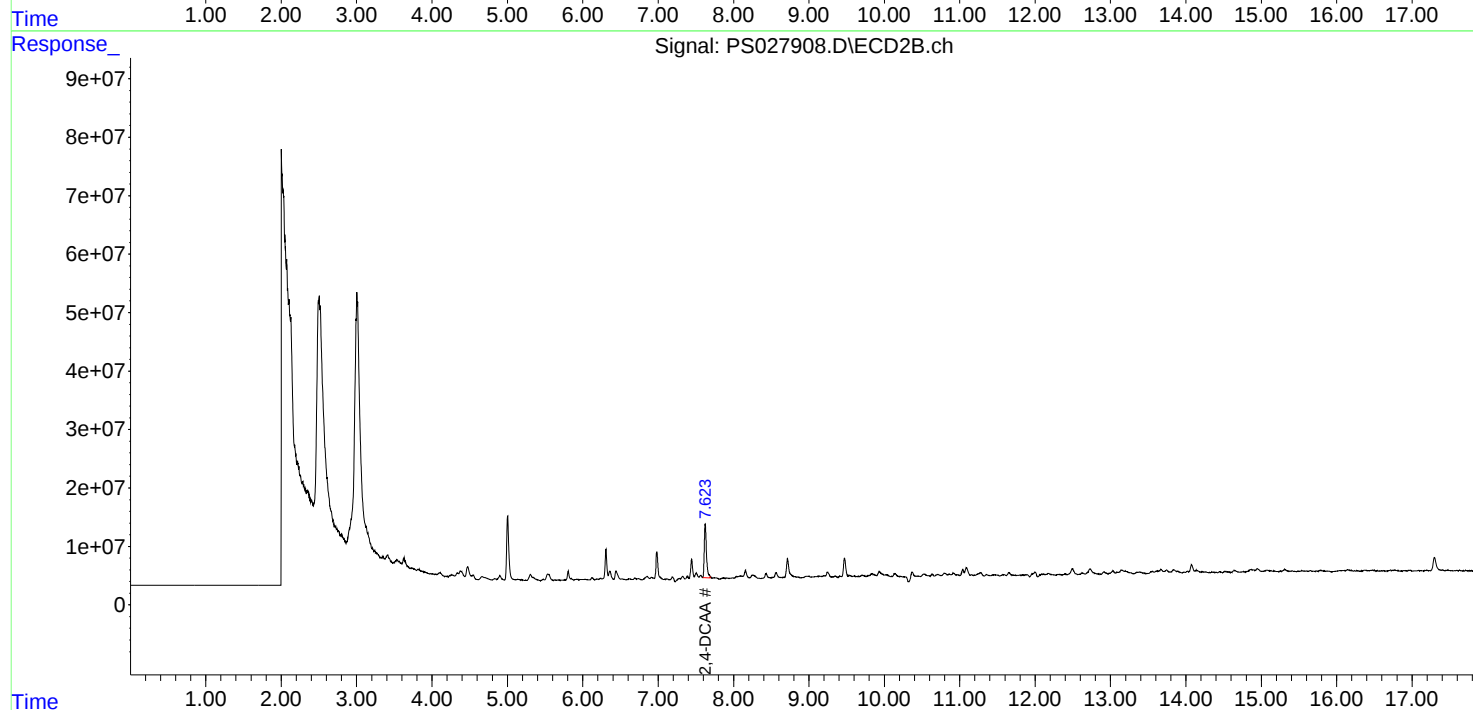
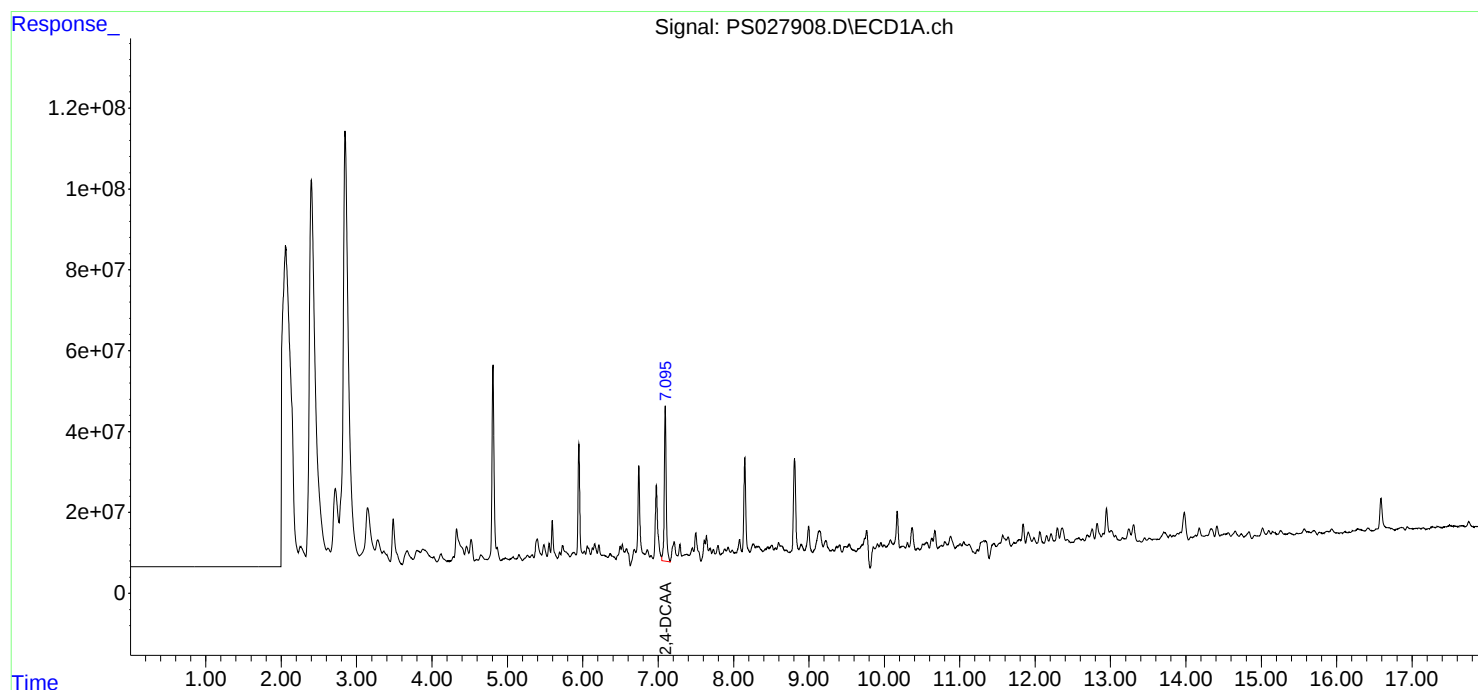
Instrument :
ECD_S
ClientSampleId :
Chamberlain Ave

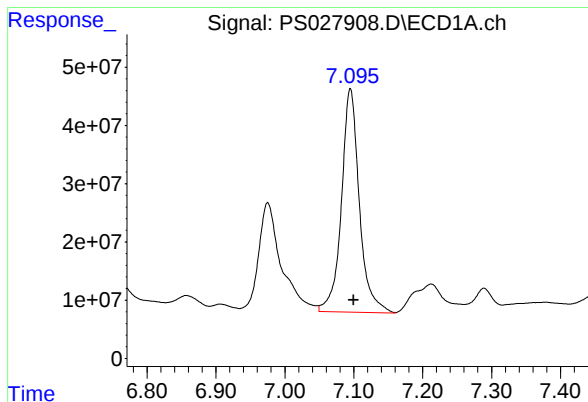
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 10/14/2024
Supervised By : Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:55:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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





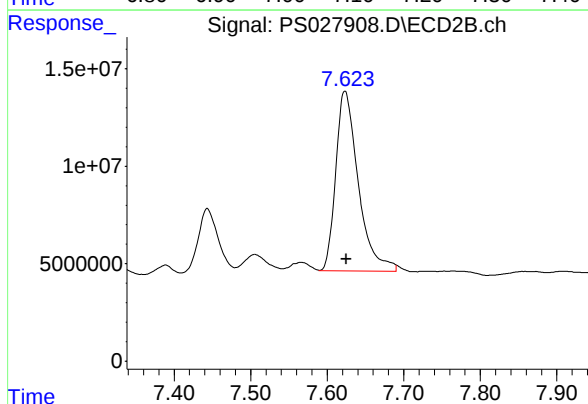
#4 2,4-DCAA

R.T.: 7.095 min
Delta R.T.: -0.006 min
Response: 692867099
Conc: 257.16 ng/ml

Instrument :
ECD_S
ClientSampleId :
Chamberlain Ave

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 10/14/2024
Supervised By :Ankita Jodhani 10/14/2024



#4 2,4-DCAA

R.T.: 7.623 min
Delta R.T.: -0.002 min
Response: 188479567
Conc: 189.68 ng/ml



CALIBRATION SUMMARY

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

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract: ROMA02
Lab Code: CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258
Instrument ID: ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024
Calibration Times: 11:12 12:47

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

LAB FILE ID:	RT 200 = <u>PS027855.D</u>	RT 500 = <u>PS027856.D</u>
RT 750 = <u>PS027857.D</u>	RT 1000 = <u>PS027858.D</u>	RT 1500 = <u>PS027859.D</u>

COMPOUND	RT 200	RT 500	RT 750	RT 1000	RT 1500	MEAN RT	RT WINDOW	
							FROM	TO
2,4,5-T	10.16	10.16	10.16	10.16	10.16	10.16	10.06	10.26
2,4,5-TP(Silvex)	9.74	9.74	9.74	9.75	9.74	9.74	9.64	9.84
2,4-D	8.85	8.85	8.85	8.85	8.85	8.85	8.75	8.95
2,4-DB	10.72	10.72	10.72	10.72	10.72	10.72	10.62	10.82
2,4-DCAA	7.63	7.63	7.63	7.63	7.63	7.63	7.53	7.73
DICAMBA	7.82	7.82	7.82	7.82	7.82	7.82	7.72	7.92
DICHLORPROP	8.53	8.53	8.53	8.53	8.53	8.53	8.43	8.63
Dinoseb	11.09	11.09	11.09	11.10	11.10	11.09	10.99	11.19

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ROMA02
Lab Code: CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258
Instrument ID: ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024
Calibration Times: 11:12 12:47
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS027855.D</u>		CF 500 = <u>PS027856.D</u>			
CF 750 = <u>PS027857.D</u>		CF 1000 = <u>PS027858.D</u>		CF 1500 = <u>PS027859.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	18343600000	16688400000	15979100000	15233500000	14618600000	16172600000	9
2,4,5-TP(Silvex)	17880800000	16295200000	15561300000	14860800000	14230700000	15765800000	9
2,4-D	4035830000	3400610000	3232540000	3118050000	3033140000	3364040000	12
2,4-DB	2919030000	2604920000	2538650000	2470580000	2435210000	2593680000	7
2,4-DCAA	3212120000	2729210000	2603700000	2494650000	2431770000	2694290000	12
DICAMBA	12294700000	11042300000	10774300000	10345200000	10089200000	10909100000	8
DICHLORPROP	3386110000	2901560000	2764510000	2668690000	2587880000	2861750000	11
Dinoseb	12428700000	10842500000	10254000000	9696060000	9493690000	10543000000	11

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: ROMA02
Lab Code: CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258
Instrument ID: ECD_S **Calibration Date(s):** 10/07/2024 10/07/2024
Calibration Times: 11:12 12:47
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS027855.D</u>		CF 500 = <u>PS027856.D</u>			
CF 750 = <u>PS027857.D</u>		CF 1000 = <u>PS027858.D</u>		CF 1500 = <u>PS027859.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	4247070000	4175740000	4737450000	3839740000	4526220000	4305240000	8
2,4,5-TP(Silvex)	4779860000	4999670000	5205360000	4527870000	5258550000	4954260000	6
2,4-D	1095340000	1009530000	1028930000	859895000	1017690000	1002280000	9
2,4-DB	511522000	522251000	524993000	441664000	531313000	506349000	7
2,4-DCAA	1083730000	982125000	983055000	920328000	999193000	993686000	6
DICAMBA	3377710000	3467820000	3634070000	3257360000	3648910000	3477170000	5
DICHLORPROP	1101380000	970842000	1031010000	847032000	984460000	986945000	9
Dinoseb	3358670000	3406870000	3546900000	3079720000	3498040000	3378040000	5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
 Data File : PS027855.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 11:12
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 10/08/2024

Supervised By :Ankita Jodhani 10/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:45:09 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:36:52 2024
 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	7.100	7.625	642.4E6	216.7E6	238.439	218.123
Target Compounds							
1) T	Dalapon	2.545	2.616	894.4E6	306.1E6	199.155m	183.793
2) T	3,5-DICHL...	6.291	6.596	879.2E6	285.9E6	221.337	209.046
3) T	4-Nitroph...	6.896	7.160	392.6E6	149.5E6	214.995	220.275
5) T	DICAMBA	7.279	7.819	2311.4E6	635.0E6	211.878	182.622
6) T	MCPD	7.455	7.919	127.3E6	49376992	17.121	17.941
7) T	MCPA	7.599	8.159	206.7E6	120.0E6	19.514	23.993
8) T	DICHLORPROP	7.965	8.526	636.6E6	207.1E6	222.447	209.798
9) T	2,4-D	8.188	8.851	758.7E6	205.9E6	226.181m	205.456
10) T	Pentachlo...	8.474	9.366	8967.5E6	2573.6E6	230.802	186.234
11) T	2,4,5-TP ...	9.041	9.742	3397.4E6	908.2E6	215.490	183.311
12) T	2,4,5-T	9.326	10.156	3485.3E6	806.9E6	215.505	187.433
13) T	2,4-DB	9.889	10.719	554.6E6	97189204	213.834	191.941
14) T	DINOSEB	11.065	11.092	2336.6E6	631.4E6	221.626	186.922
15) T	Picloram	10.882	12.170	4623.3E6	647.9E6	214.761	155.088 #
16) T	DCPA	11.364	12.123	4022.8E6	1002.2E6	226.496	208.788

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027855.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 11:12
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

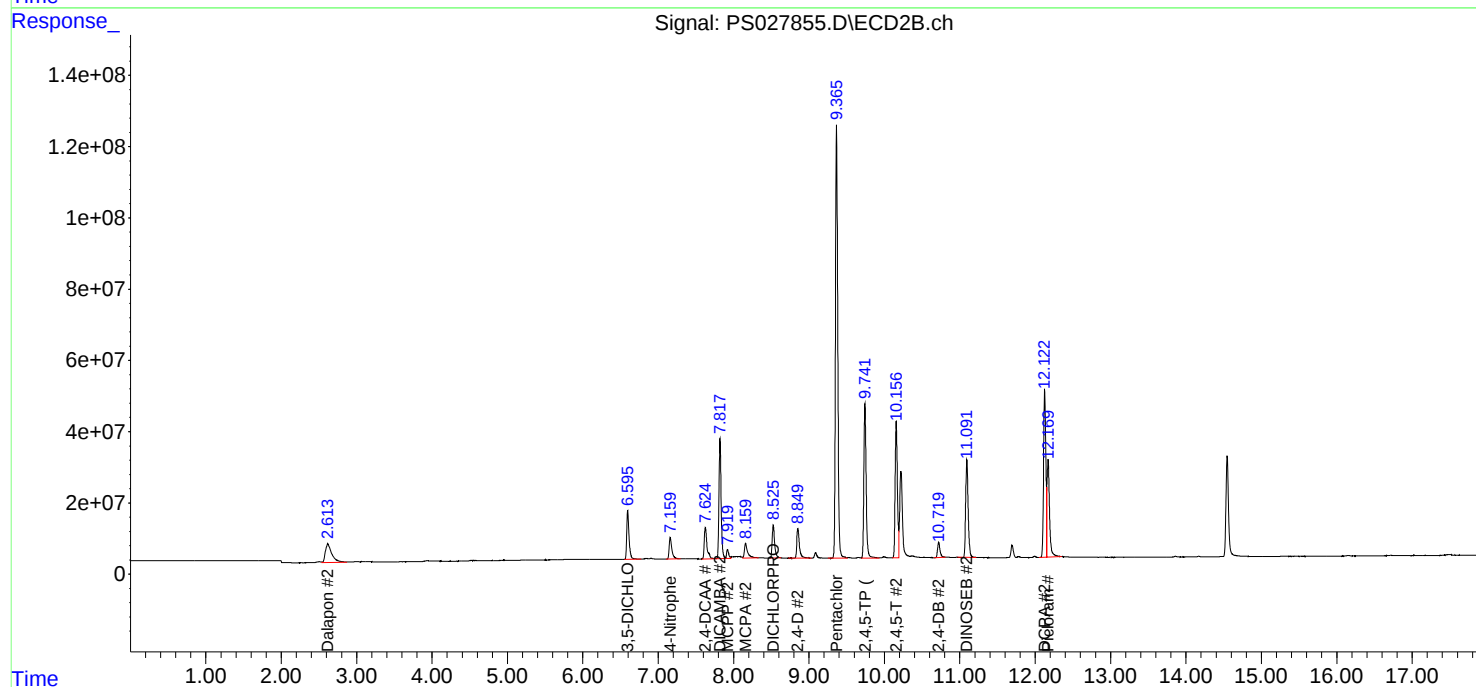
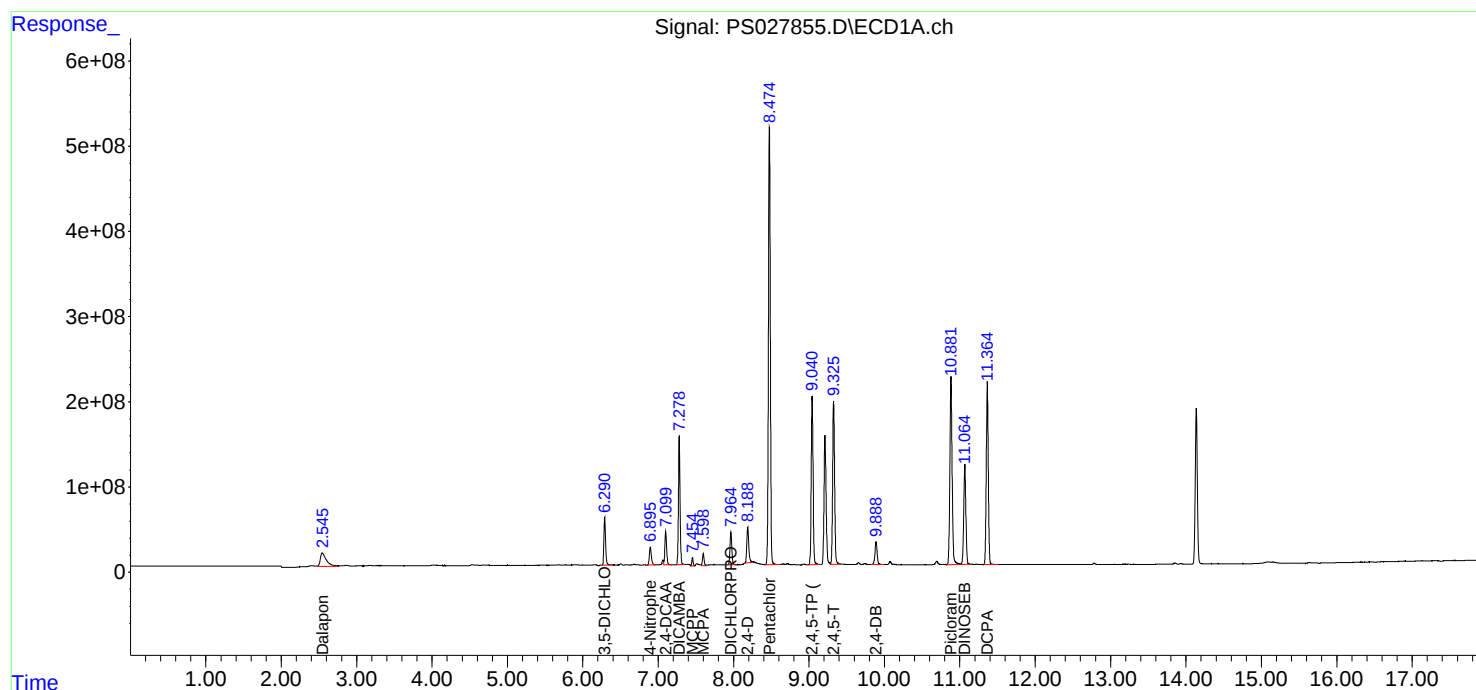
APPROVED

Reviewed By :Abdul Mirza 10/08/2024

Supervised By :Ankita Jodhani 10/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:45:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:36:52 2024
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\PS100724\
 Data File : PS027856.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 11:36
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:43:19 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:36:52 2024
 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	7.098	7.627	1364.6E6	491.1E6	532.045	505.637
Target Compounds							
1) T	Dalapon	2.546	2.618	2149.0E6	729.8E6	490.500	439.246
2) T	3,5-DICHL...	6.290	6.598	1855.3E6	635.6E6	490.372	479.667
3) T	4-Nitroph...	6.893	7.163	837.6E6	318.9E6	480.528	495.820
5) T	DICAMBA	7.277	7.821	5189.9E6	1629.9E6	491.337	465.407
6) T	MCPD	7.455	7.923	339.7E6	130.4E6	44.686	46.856
7) T	MCPA	7.599	8.163	488.0E6	243.4E6	46.644	52.470
8) T	DICHLORPROP	7.963	8.528	1363.7E6	456.3E6	499.416	476.133
9) T	2,4-D	8.186	8.854	1598.3E6	474.5E6	500.077	484.650
10) T	Pentachlo...	8.471	9.367	19444.7E6	6874.6E6	528.850	495.024
11) T	2,4,5-TP ...	9.038	9.743	7740.2E6	2374.8E6	507.989	475.172
12) T	2,4,5-T	9.322	10.159	7927.0E6	1983.5E6	507.168	459.160
13) T	2,4-DB	9.886	10.719	1237.3E6	248.1E6	492.503	491.172
14) T	DINOSEB	11.062	11.094	5096.0E6	1601.2E6	505.977	473.333
15) T	Picloram	10.878	12.173	10431.9E6	1825.2E6	500.905	417.719
16) T	DCPA	11.361	12.126	8343.0E6	2339.0E6	491.829	498.145

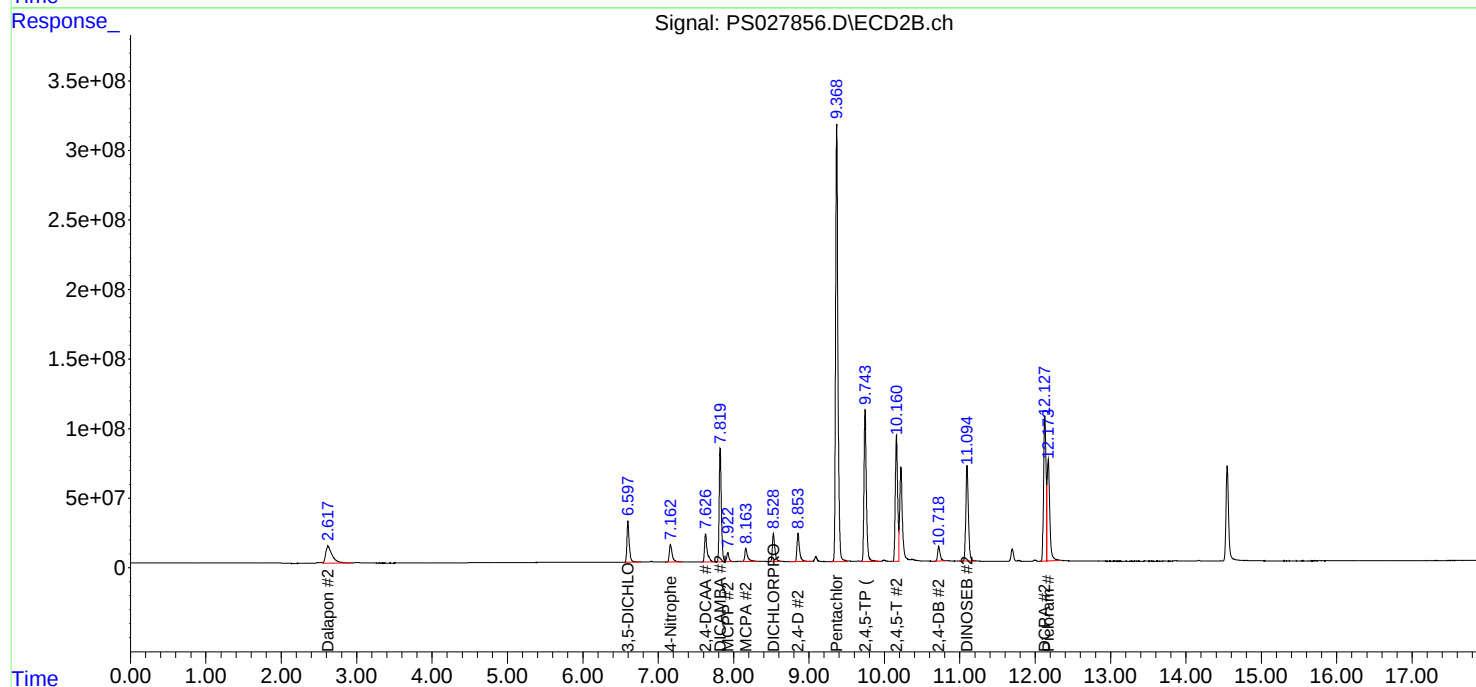
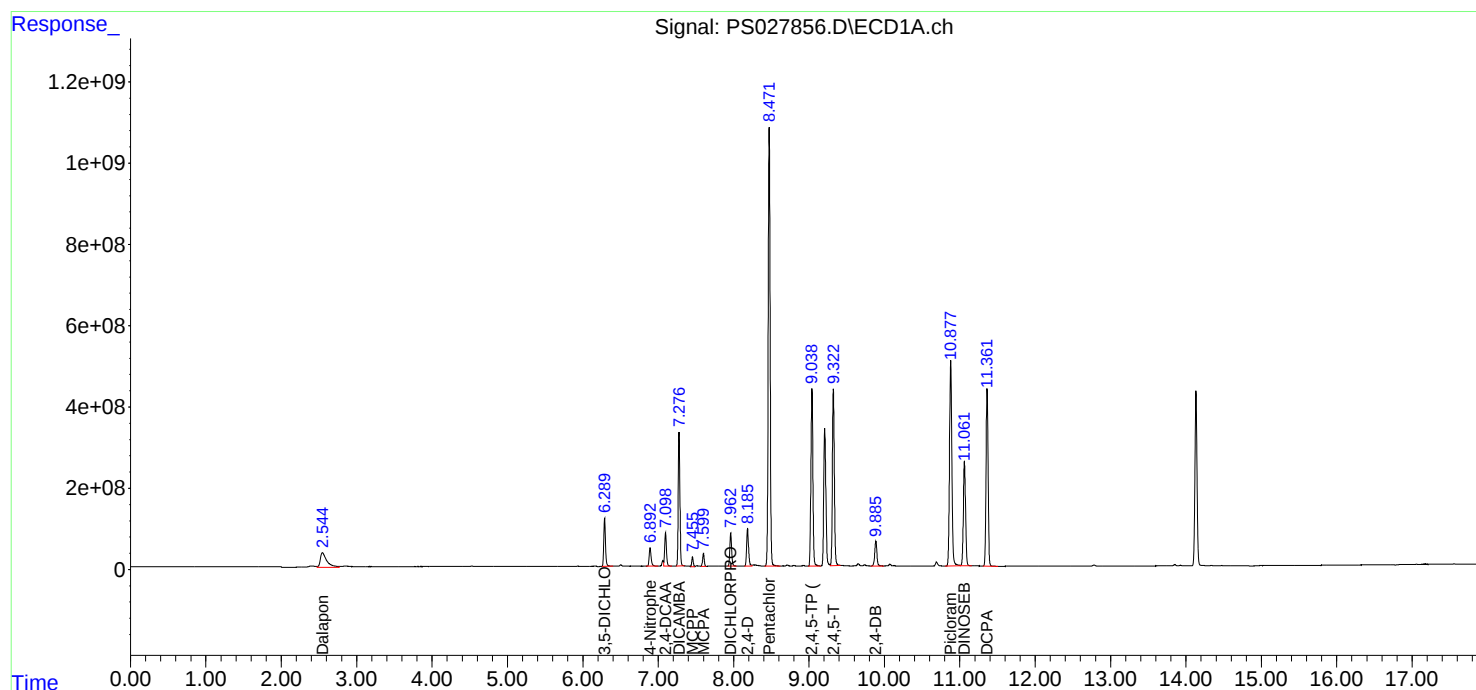
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027856.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 11:36
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:43:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:36:52 2024
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
 Data File : PS027857.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 12:00
 Operator : AR\AJ
 Sample : HSTDICC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:37:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:36:52 2024
 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	7.098	7.628	1952.8E6	737.3E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.545	2.618	3007.8E6	1153.7E6	682.500	682.500
2) T	3,5-DICHL...	6.289	6.598	2685.8E6	982.2E6	697.500	697.500
3) T	4-Nitroph...	6.893	7.162	1199.5E6	445.1E6	682.500	682.500
5) T	DICAMBA	7.277	7.822	7595.9E6	2562.0E6	705.000	705.000
6) T	MCP	7.456	7.925	524.7E6	202.8E6	70.500	70.500
7) T	MCPA	7.601	8.165	725.6E6	335.5E6	69.750	69.750
8) T	DICHLORPROP	7.963	8.528	1949.0E6	726.9E6	705.000	705.000
9) T	2,4-D	8.185	8.852	2278.9E6	725.4E6	705.000	705.000
10) T	Pentachlo...	8.472	9.367	27343.2E6	10456.8E6	712.500	712.500
11) T	2,4,5-TP ...	9.038	9.743	11087.4E6	3708.8E6	712.500	712.500
12) T	2,4,5-T	9.323	10.158	11385.1E6	3375.4E6	712.500	712.500
13) T	2,4-DB	9.885	10.719	1808.8E6	374.1E6	712.500	712.500
14) T	DINOSEB	11.061	11.093	7229.1E6	2500.6E6	705.000	705.000
15) T	Picloram	10.877	12.170	15201.9E6	3279.8E6	712.500	712.500
16) T	DCPA	11.360	12.126	12763.4E6	3685.1E6	720.000	720.000

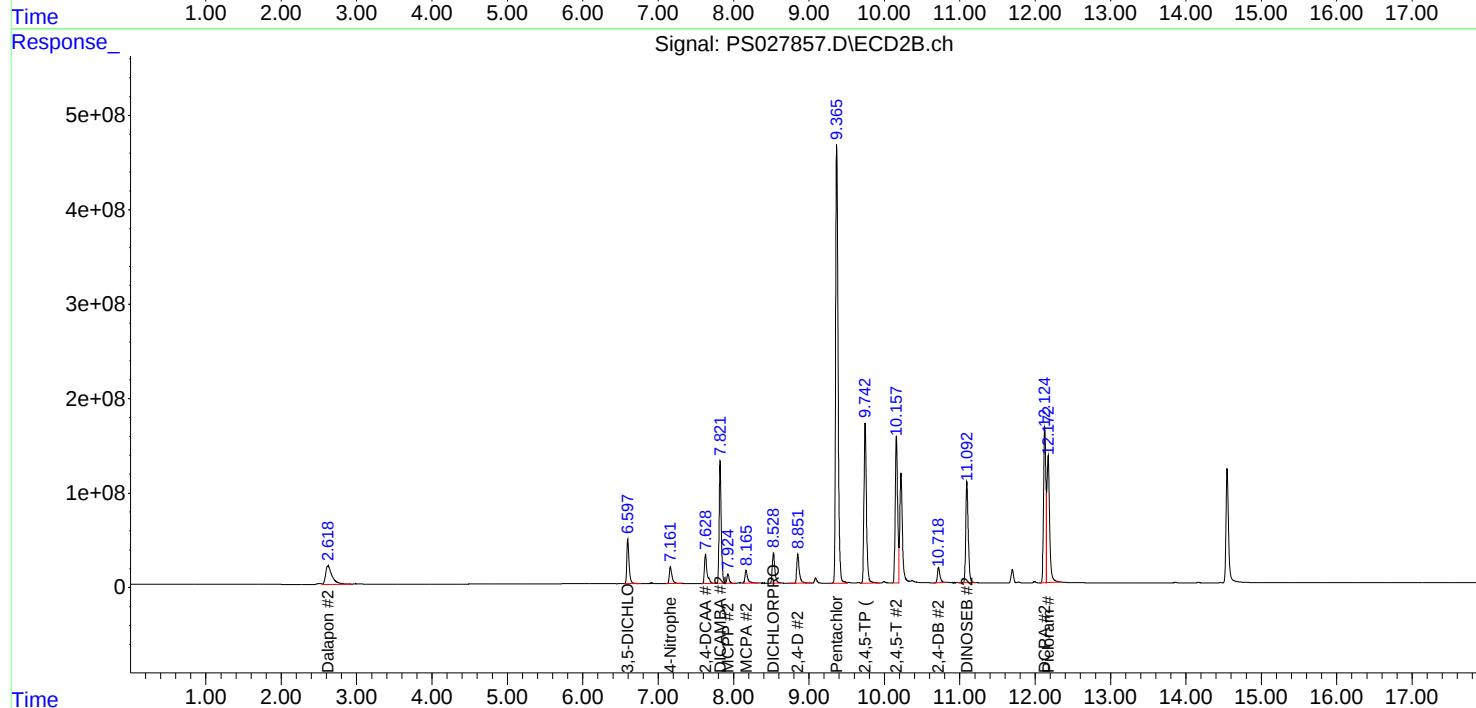
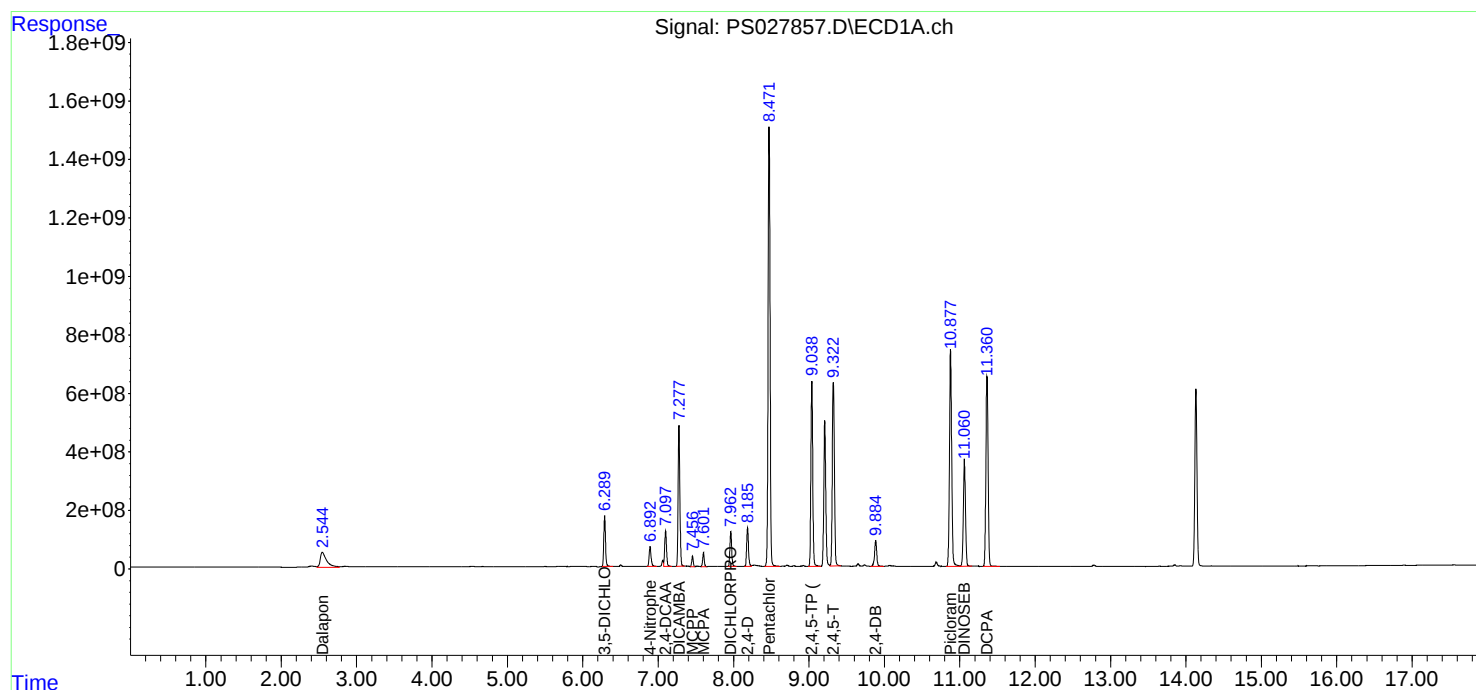
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027857.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 12:00
Operator : AR\AJ
Sample : HSTDICC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:37:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:36:52 2024
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
 Data File : PS027858.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 12:23
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC1000

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 10/08/2024

Supervised By :Ankita Jodhani 10/08/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:41:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:36:52 2024
 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	7.098	7.627	2494.6E6	920.3E6	998.007m	951.218
Target Compounds							
1) T	Dalapon	2.545	2.627	3872.4E6	1568.2E6	907.444	933.032
2) T	3,5-DICHL...	6.289	6.599	3439.2E6	1093.7E6	925.832	834.121
3) T	4-Nitroph...	6.893	7.162	1541.7E6	551.0E6	901.292	883.174
5) T	DICAMBA	7.277	7.822	9724.5E6	3061.9E6	934.785	871.486
6) T	MCP	7.458	7.927	737.2E6	233.0E6	96.246m	83.612
7) T	MCPA	7.603	8.167	967.9E6	385.7E6	92.615	86.854
8) T	DICHLORPROP	7.962	8.528	2508.6E6	796.2E6	938.240	834.455
9) T	2,4-D	8.185	8.854	2931.0E6	808.3E6	937.036	834.299
10) T	Pentachlo...	8.471	9.367	34157.9E6	11929.1E6	965.502	871.224
11) T	2,4,5-TP ...	9.037	9.745	14117.8E6	4301.5E6	948.502	860.767
12) T	2,4,5-T	9.322	10.159	14471.8E6	3647.7E6	947.291	835.145
13) T	2,4-DB	9.885	10.721	2347.1E6	419.6E6	945.826	840.299
14) T	DINOSEB	11.062	11.095	9114.3E6	2894.9E6	928.647	857.789
15) T	Picloram	10.878	12.170	19335.6E6	4008.9E6	945.622	882.044
16) T	DCPA	11.361	12.128	16083.9E6	4305.4E6	956.023	928.640

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027858.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 12:23
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

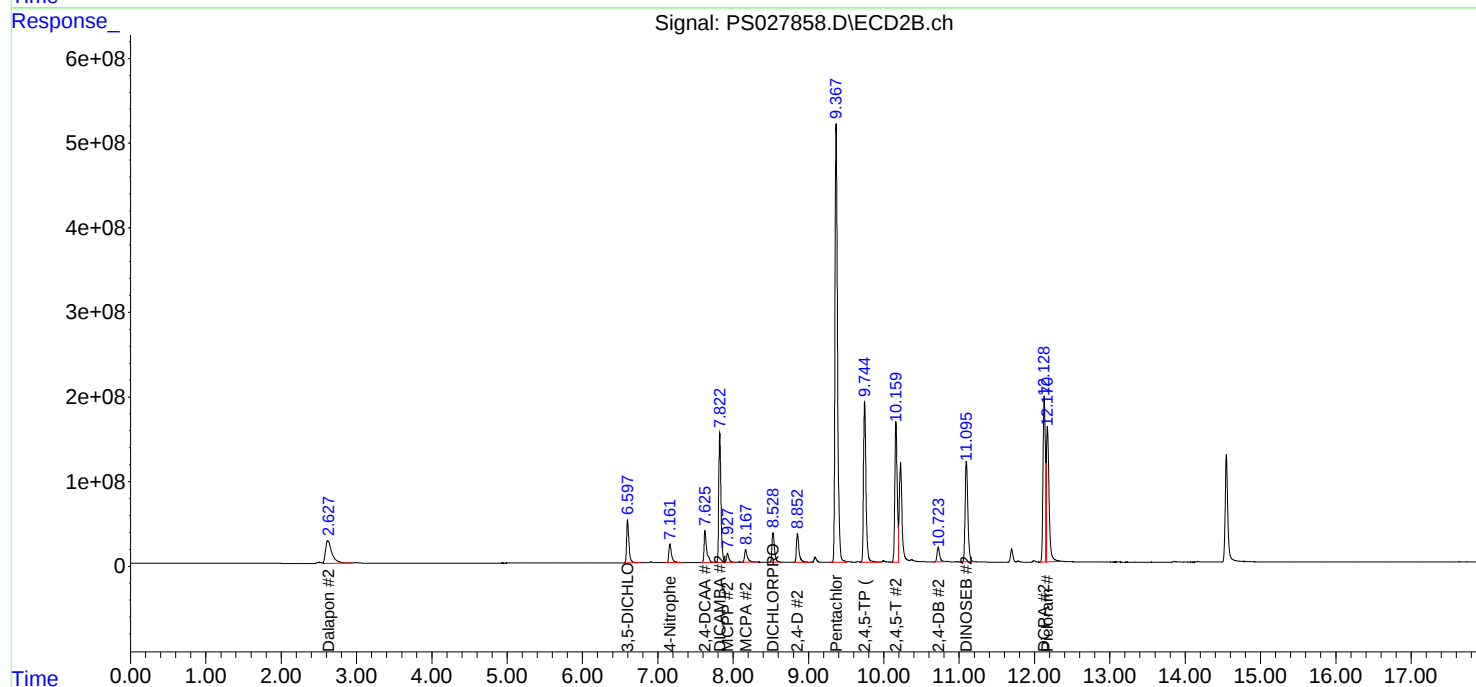
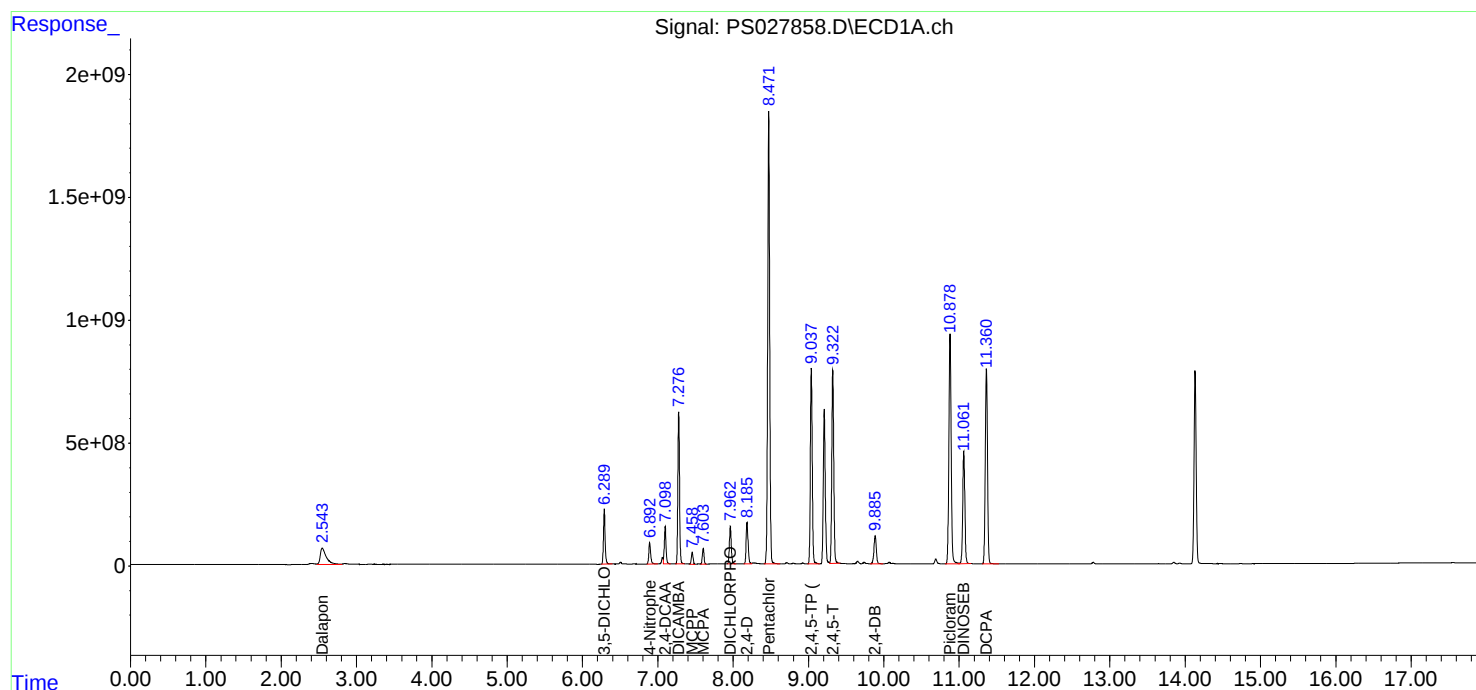
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 10/08/2024
Supervised By : Ankita Jodhani 10/08/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:41:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:36:52 2024
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
 Data File : PS027859.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 12:47
 Operator : AR\AJ
 Sample : HSTDICC1500
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1500

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:39:17 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:36:52 2024
 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	7.098	7.627	3647.7E6	1498.8E6	1448.785	1512.212
Target Compounds							
1) T	Dalapon	2.545	2.624	5650.5E6	2223.0E6	1322.272	1339.553
2) T	3,5-DICHL...	6.289	6.598	5015.6E6	1882.3E6	1347.201	1365.227
3) T	4-Nitroph...	6.892	7.161	2293.0E6	838.1E6	1334.133	1323.805
5) T	DICAMBA	7.277	7.822	14225.8E6	5145.0E6	1363.696	1412.875
6) T	MCPD	7.461	7.928	1113.6E6	423.5E6	145.183	144.033
7) T	MCPA	7.608	8.170	1470.6E6	609.1E6	140.423	132.760
8) T	DICHLORPROP	7.962	8.527	3648.9E6	1388.1E6	1363.469	1377.432
9) T	2,4-D	8.185	8.853	4276.7E6	1434.9E6	1365.128	1402.252
10) T	Pentachlo...	8.471	9.366	45319.5E6	19727.3E6	1291.529	1383.403
11) T	2,4,5-TP ...	9.037	9.743	20278.8E6	7493.4E6	1361.359	1432.244
12) T	2,4,5-T	9.322	10.159	20831.5E6	6449.9E6	1361.640	1392.507
13) T	2,4-DB	9.884	10.718	3470.2E6	757.1E6	1395.365	1433.527
14) T	DINOSEB	11.062	11.095	13386.1E6	4932.2E6	1355.712	1400.221
15) T	Picloram	10.877	12.171	28005.6E6	6856.9E6	1366.492	1456.585
16) T	DCPA	11.360	12.128	23026.0E6	6200.2E6	1365.829	1315.847

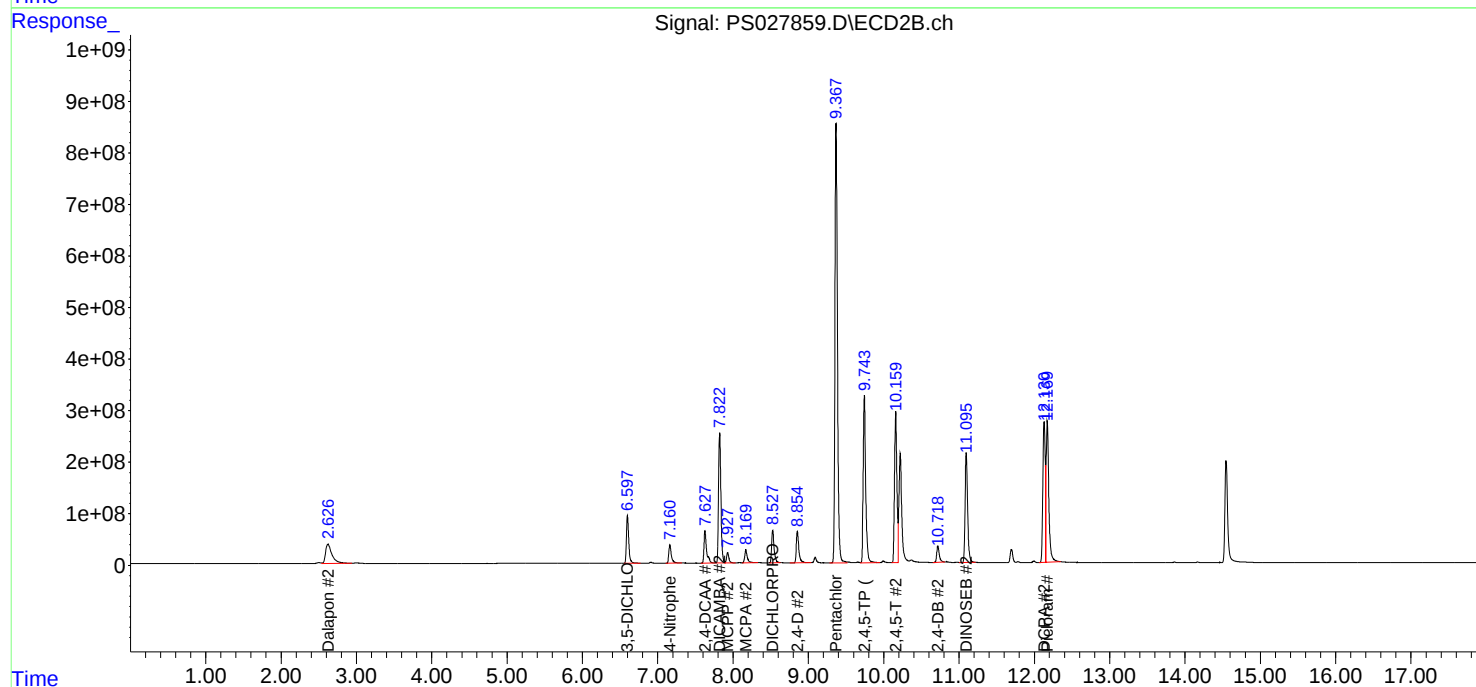
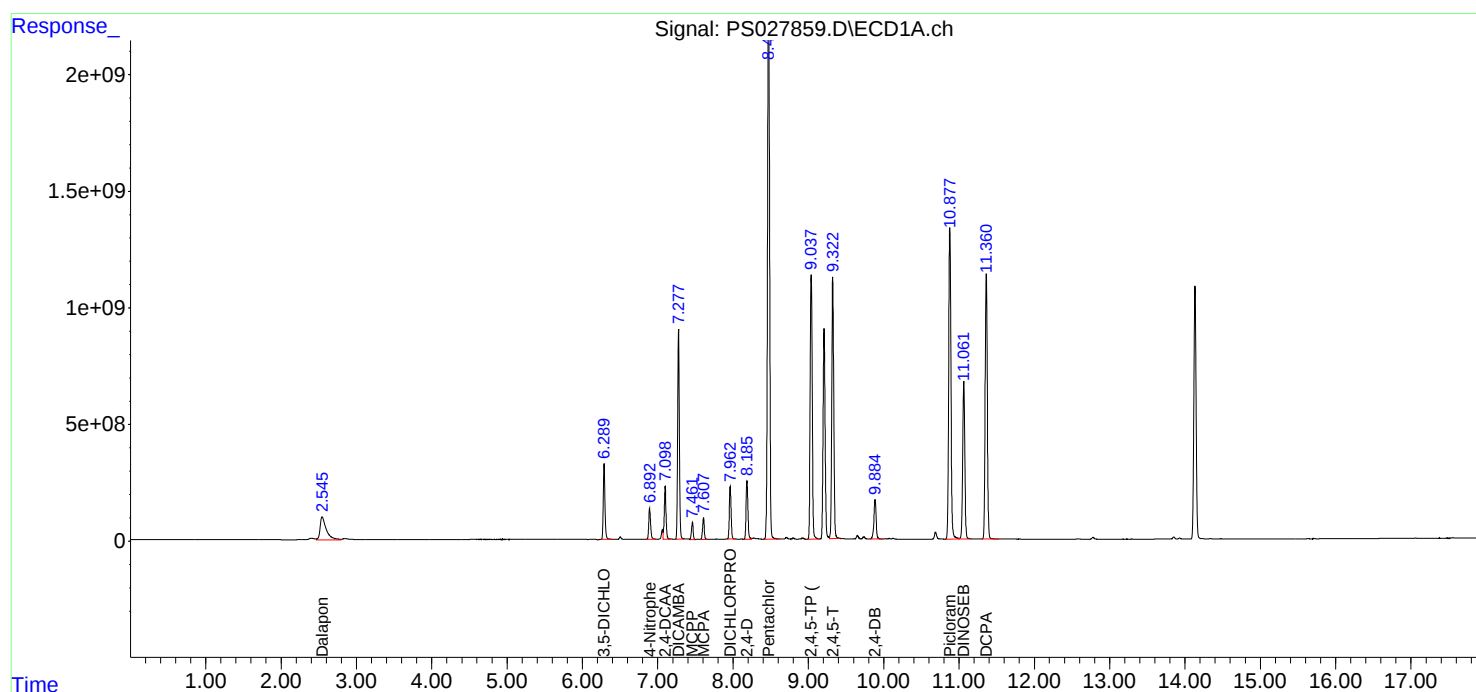
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027859.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 12:47
Operator : AR\AJ
Sample : HSTDICC1500
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:39:17 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:36:52 2024
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



Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
 Data File : PS027860.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 07 Oct 2024 13:11
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS100724

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 07 13:46:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.098	7.627	1946.6E6	742.8E6	722.477	747.524
Target Compounds							
1) T	Dalapon	2.545	2.616	3020.4E6	1151.9E6	673.009	691.564
2) T	3,5-DICHL...	6.289	6.598	2666.2E6	944.0E6	671.218	690.357
3) T	4-Nitroph...	6.893	7.161	1203.4E6	451.8E6	659.106	665.654
5) T	DICAMBA	7.277	7.821	7559.6E6	2534.2E6	692.964	728.804
6) T	MCPD	7.456	7.925	530.8E6	203.4E6	71.374	73.889
7) T	MCPA	7.602	8.165	734.4E6	323.7E6	69.340	64.704
8) T	DICHLORPROP	7.962	8.528	1959.4E6	708.0E6	684.696	717.396
9) T	2,4-D	8.185	8.853	2284.6E6	716.3E6	679.115	714.714
10) T	Pentachlo...	8.472	9.367	27447.4E6	10280.3E6	706.427	743.926
11) T	2,4,5-TP ...	9.038	9.743	11147.2E6	3721.6E6	707.054	751.192
12) T	2,4,5-T	9.322	10.158	11443.0E6	3135.3E6	707.552	728.251
13) T	2,4-DB	9.885	10.719	1813.4E6	366.6E6	699.163	723.930
14) T	DINOSEB	11.061	11.093	7217.3E6	2419.2E6	684.563	716.159
15) T	Picloram	10.878	12.171	15206.9E6	3071.1E6	706.398	735.170
16) T	DCPA	11.361	12.126	12843.3E6	3817.6E6	723.125	795.279

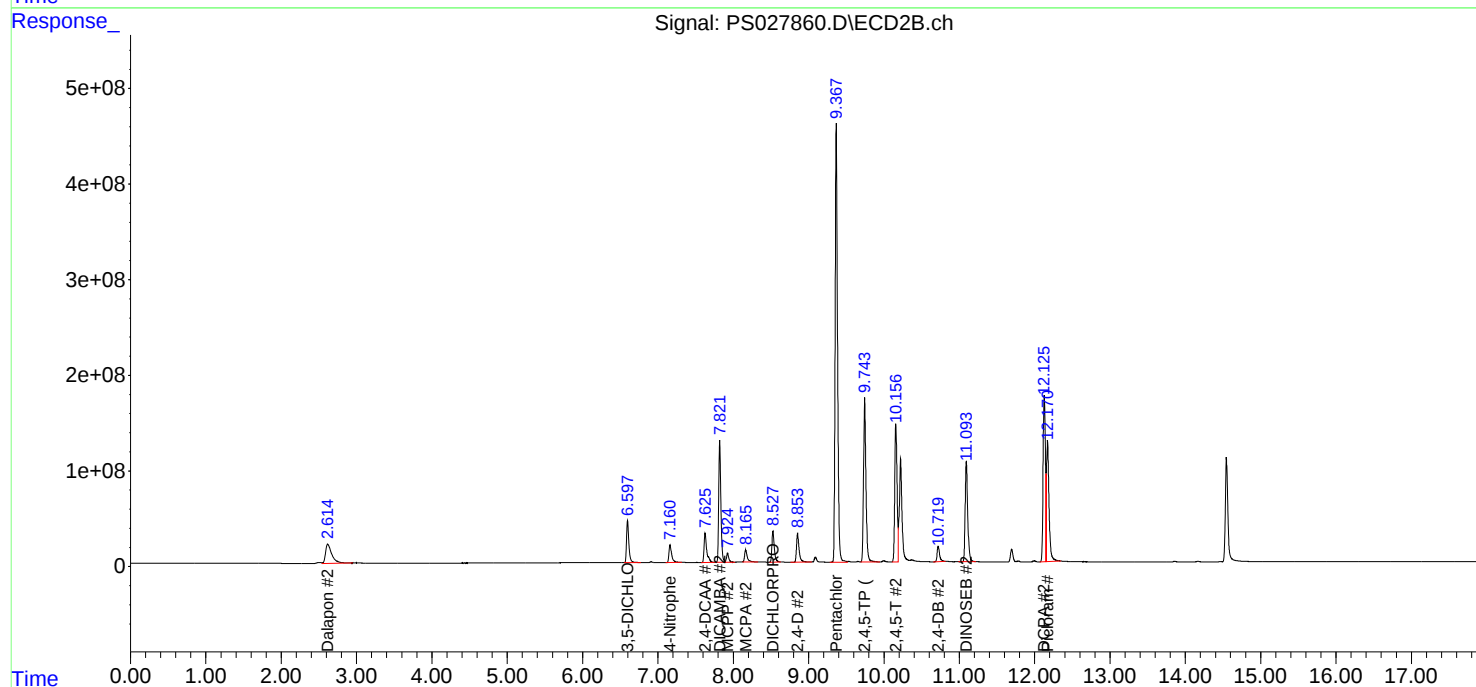
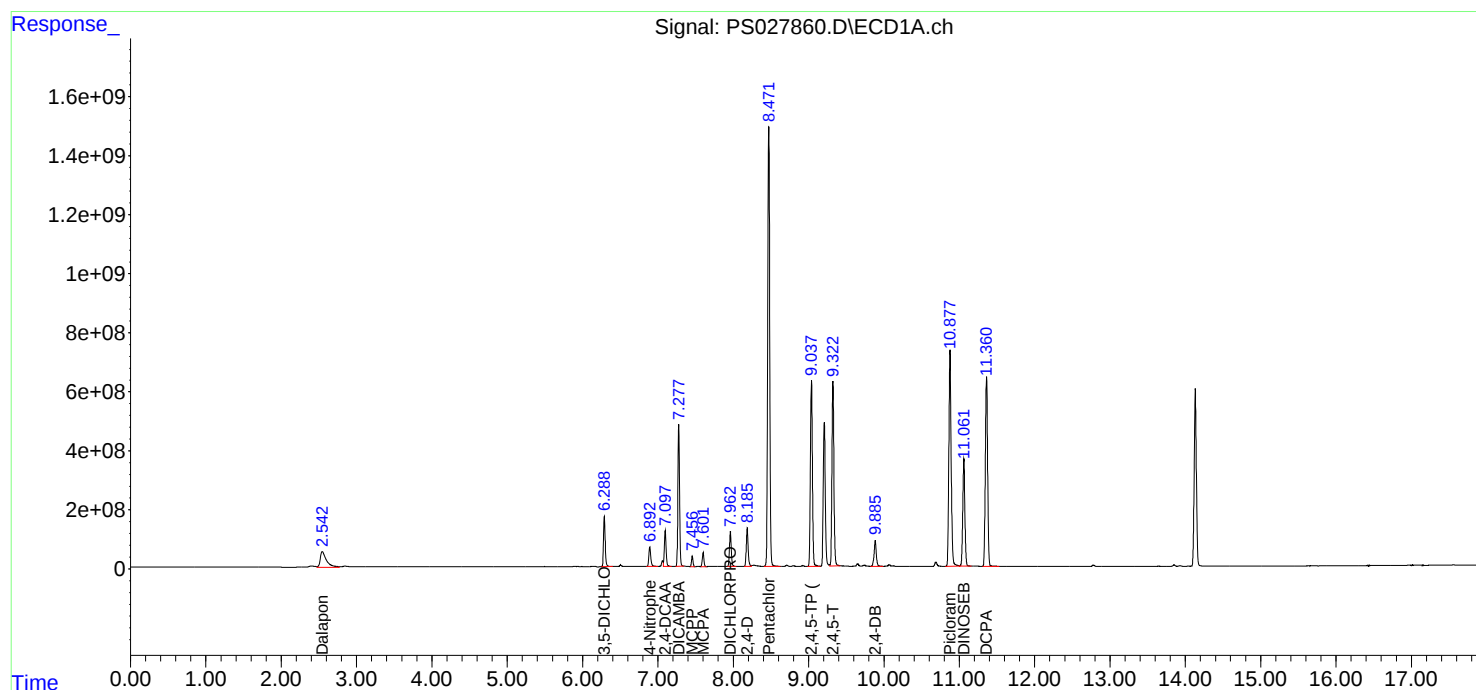
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027860.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 13:11
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS100724

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:46:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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





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

CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Continuing Calib Date: 10/11/2024 Initial Calibration Date(s): 10/07/2024 10/07/2024

Continuing Calib Time: 10:37 Initial Calibration Time(s): 11:12 12:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.27	7.28	7.18	7.38	0.01
2,4-DCAA	7.10	7.10	7.00	7.20	0.01
DICHLORPROP	7.96	7.96	7.86	8.06	0.00
2,4-D	8.18	8.19	8.09	8.29	0.01
2,4,5-TP(Silvex)	9.03	9.04	8.94	9.14	0.01
2,4,5-T	9.32	9.32	9.22	9.42	0.00
2,4-DB	9.88	9.89	9.79	9.99	0.01
Dinoseb	11.06	11.06	10.96	11.16	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Continuing Calib Date: 10/11/2024 Initial Calibration Date(s): 10/07/2024 10/07/2024

Continuing Calib Time: 10:37 Initial Calibration Time(s): 11:12 12:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.82	7.82	7.72	7.92	0.00
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
DICHLORPROP	8.52	8.53	8.43	8.63	0.01
2,4-D	8.85	8.85	8.75	8.95	0.00
2,4,5-TP(Silvex)	9.74	9.74	9.64	9.84	0.00
2,4,5-T	10.15	10.16	10.06	10.26	0.01
2,4-DB	10.71	10.72	10.62	10.82	0.01
Dinoseb	11.09	11.09	10.99	11.19	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/07/2024 10/07/2024

Client Sample No.: CCAL01 Date Analyzed: 10/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS027905.D Time Analyzed: 10:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.318	9.223	9.423	719.450	712.500	1.0
2,4,5-TP(Silvex)	9.034	8.938	9.138	717.440	712.500	0.7
2,4-D	8.181	8.085	8.285	686.600	705.000	-2.6
2,4-DB	9.881	9.785	9.985	702.270	712.500	-1.4
2,4-DCAA	7.095	6.998	7.198	735.100	750.000	-2.0
DICAMBA	7.274	7.177	7.377	705.590	705.000	0.1
DICHLORPROP	7.959	7.863	8.063	695.860	705.000	-1.3
Dinoseb	11.057	10.961	11.161	707.700	705.000	0.4



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CALIBRATION VERIFICATION SUMMARY
Contract: ROMA02
Lab Code: CHEM **Case No.:** P4258 **SAS No.:** P4258 **SDG NO.:** P4258
GC Column: RTX-CLP2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 10/07/2024 10/07/2024
Client Sample No.: CCAL01 **Date Analyzed:** 10/11/2024
Lab Sample No.: HSTDCCC750 **Data File :** PS027905.D **Time Analyzed:** 10:37

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.153	10.058	10.258	708.250	712.500	-0.6
2,4,5-TP(Silvex)	9.739	9.643	9.843	721.720	712.500	1.3
2,4-D	8.849	8.752	8.952	672.380	705.000	-4.6
2,4-DB	10.714	10.619	10.819	705.100	712.500	-1.0
2,4-DCAA	7.622	7.528	7.728	698.610	750.000	-6.9
DICAMBA	7.817	7.722	7.922	732.660	705.000	3.9
DICHLORPROP	8.524	8.428	8.628	690.830	705.000	-2.0
Dinoseb	11.088	10.993	11.193	705.540	705.000	0.1

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
 Data File : PS027905.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 10:37
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 00:52:46 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.095	7.622	1980.6E6	694.2E6	735.099	698.614m
Target Compounds							
1) T	Dalapon	2.545	2.616	2994.7E6	1127.3E6	667.283	676.774
2) T	3,5-DICHL...	6.287	6.595	2709.0E6	951.3E6	681.989	695.708
3) T	4-Nitroph...	6.890	7.157	1229.3E6	466.7E6	673.293	687.548
5) T	DICAMBA	7.274	7.817	7697.4E6	2547.6E6	705.588	732.664
6) T	MCPD	7.453	7.921	536.0E6	192.0E6	72.071	69.746
7) T	MCPA	7.598	8.161	739.6E6	333.0E6	69.832	66.573
8) T	DICHLORPROP	7.959	8.524	1991.4E6	681.8E6	695.865	690.825
9) T	2,4-D	8.181	8.849	2309.8E6	673.9E6	686.603	672.381
10) T	Pentachlo...	8.467	9.362	28047.4E6	10126.0E6	721.871	732.761
11) T	2,4,5-TP ...	9.034	9.739	11311.0E6	3575.6E6	717.441	721.716
12) T	2,4,5-T	9.318	10.153	11635.4E6	3049.2E6	719.448	708.247
13) T	2,4-DB	9.881	10.714	1821.5E6	357.0E6	702.271	705.098
14) T	DINOSEB	11.057	11.088	7461.2E6	2383.3E6	707.696	705.539
15) T	Picloram	10.872	12.163	15054.4E6	2948.3E6	699.311	705.772
16) T	DCPA	11.355	12.118	11714.6E6	3654.2E6	659.576	761.242m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 10:37
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

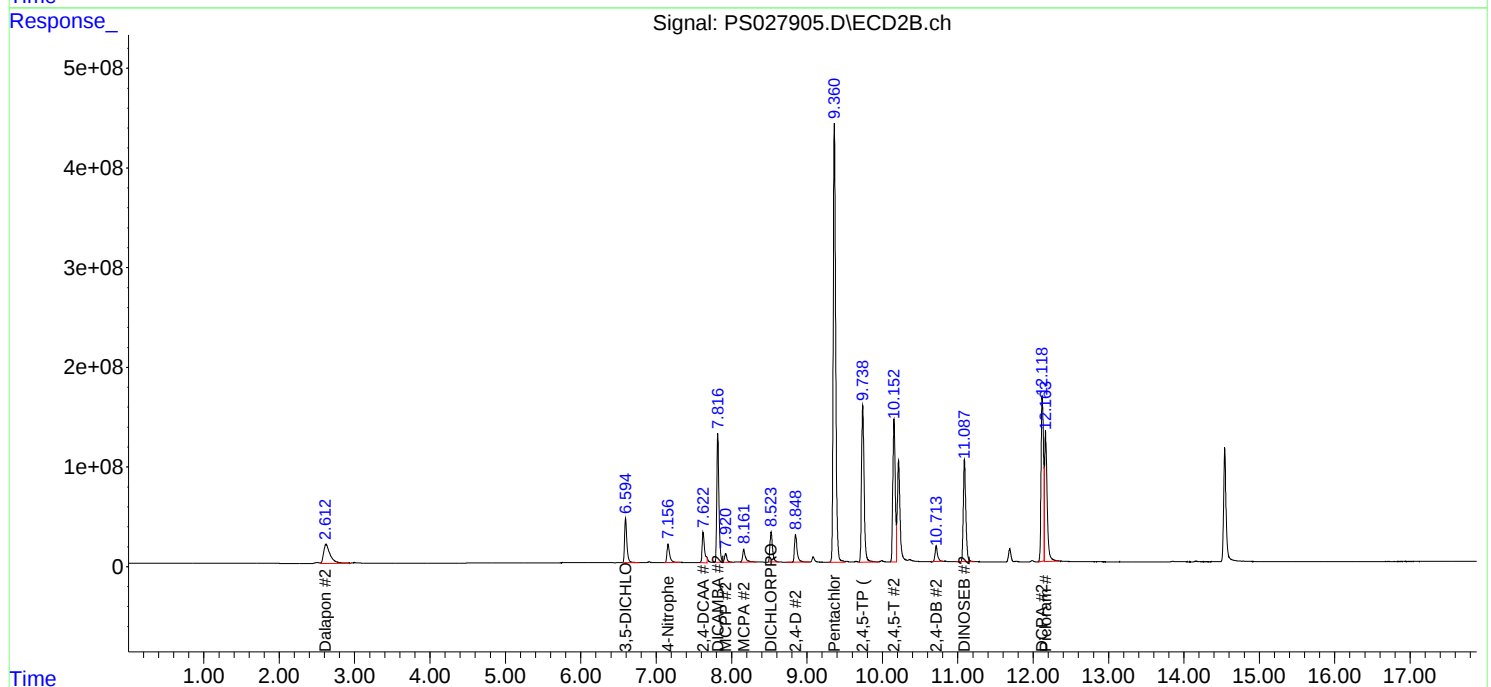
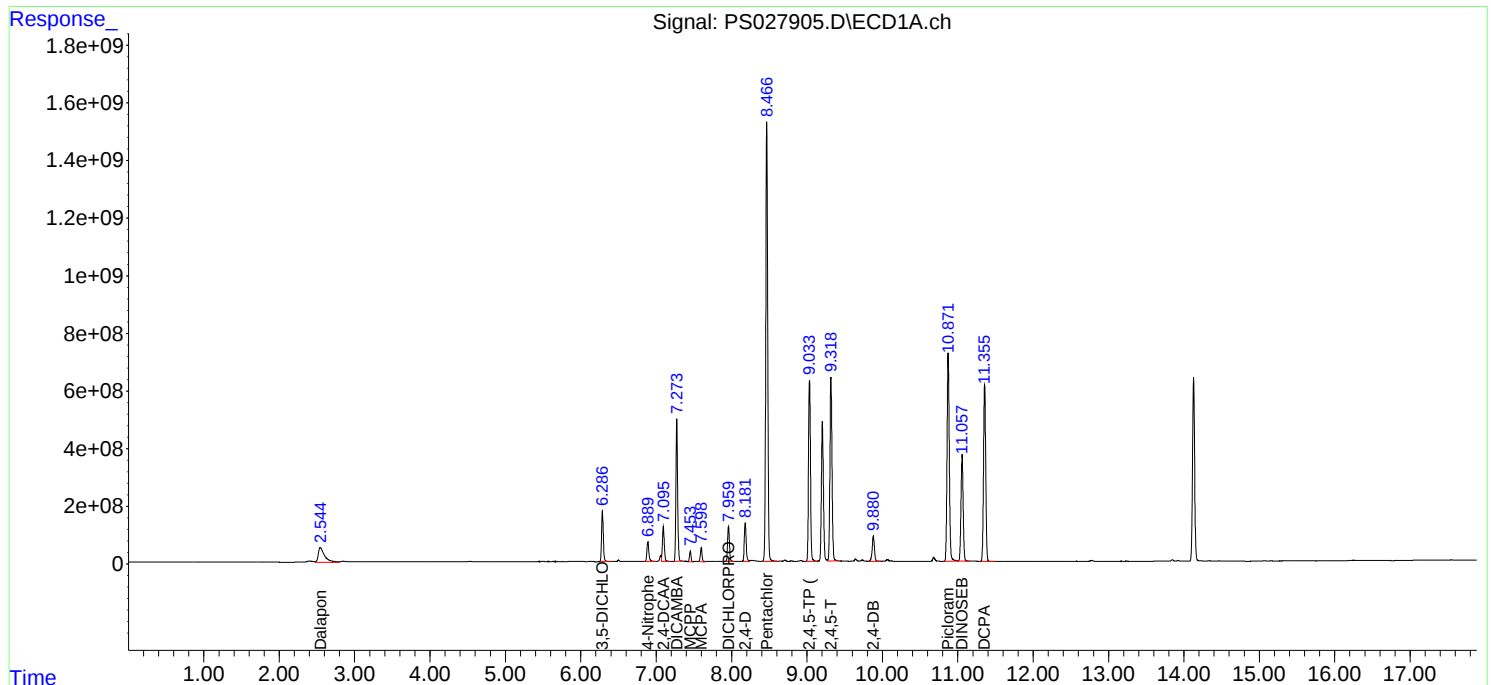
APPROVED

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:52:46 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Continuing Calib Date: 10/11/2024 Initial Calibration Date(s): 10/07/2024 10/07/2024

Continuing Calib Time: 21:38 Initial Calibration Time(s): 11:12 12:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.27	7.28	7.18	7.38	0.01
2,4-DCAA	7.10	7.10	7.00	7.20	0.01
DICHLORPROP	7.96	7.96	7.86	8.06	0.00
2,4-D	8.18	8.19	8.09	8.29	0.01
2,4,5-TP(Silvex)	9.04	9.04	8.94	9.14	0.01
2,4,5-T	9.32	9.32	9.22	9.42	0.00
2,4-DB	9.88	9.89	9.79	9.99	0.01
Dinoseb	11.06	11.06	10.96	11.16	0.00



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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

Continuing Calib Date: 10/11/2024 Initial Calibration Date(s): 10/07/2024 10/07/2024

Continuing Calib Time: 21:38 Initial Calibration Time(s): 11:12 12:47

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.82	7.82	7.72	7.92	0.00
2,4-DCAA	7.62	7.63	7.53	7.73	0.01
DICHLORPROP	8.52	8.53	8.43	8.63	0.01
2,4-D	8.85	8.85	8.75	8.95	0.00
2,4,5-TP(Silvex)	9.74	9.74	9.64	9.84	0.00
2,4,5-T	10.15	10.16	10.06	10.26	0.01
2,4-DB	10.71	10.72	10.62	10.82	0.01
Dinoseb	11.09	11.09	10.99	11.19	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 10/07/2024 10/07/2024

Client Sample No.: CCAL02 Date Analyzed: 10/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS027916.D Time Analyzed: 21:38

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.319	9.223	9.423	723.470	712.500	1.5
2,4,5-TP(Silvex)	9.035	8.938	9.138	715.280	712.500	0.4
2,4-D	8.182	8.085	8.285	691.690	705.000	-1.9
2,4-DB	9.881	9.785	9.985	706.900	712.500	-0.8
2,4-DCAA	7.095	6.998	7.198	738.190	750.000	-1.6
DICAMBA	7.274	7.177	7.377	705.560	705.000	0.1
DICHLORPROP	7.959	7.863	8.063	697.370	705.000	-1.1
Dinoseb	11.057	10.961	11.161	717.240	705.000	1.7



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CALIBRATION VERIFICATION SUMMARY

Contract: ROMA02

Lab Code: CHEM Case No.: P4258 SAS No.: P4258 SDG NO.: P4258

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 10/07/2024 10/07/2024

Client Sample No.: CCAL02 Date Analyzed: 10/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS027916.D Time Analyzed: 21:38

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.153	10.058	10.258	720.170	712.500	1.1
2,4,5-TP(Silvex)	9.739	9.643	9.843	701.080	712.500	-1.6
2,4-D	8.848	8.752	8.952	705.930	705.000	0.1
2,4-DB	10.713	10.619	10.819	697.420	712.500	-2.1
2,4-DCAA	7.623	7.528	7.728	675.590	750.000	-9.9
DICAMBA	7.817	7.722	7.922	708.800	705.000	0.5
DICHLORPROP	8.524	8.428	8.628	679.310	705.000	-3.6
Dinoseb	11.089	10.993	11.193	702.130	705.000	-0.4

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
 Data File : PS027916.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 21:38
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 01:09:59 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.095	7.623	1988.9E6	671.3E6	738.193	675.592m
Target Compounds							
1) T	Dalapon	2.544	2.619	2999.9E6	1096.7E6	668.431	658.423
2) T	3,5-DICHL...	6.287	6.595	2720.0E6	933.2E6	684.761	682.457
3) T	4-Nitroph...	6.890	7.158	1231.0E6	471.0E6	674.175	693.827
5) T	DICAMBA	7.274	7.817	7697.0E6	2464.6E6	705.556	708.795
6) T	MCP	7.454	7.921	537.5E6	187.8E6	72.275	68.237
7) T	MCPA	7.599	8.161	750.1E6	316.5E6	70.818	63.264
8) T	DICHLORPROP	7.959	8.524	1995.7E6	670.4E6	697.373	679.305
9) T	2,4-D	8.182	8.848	2326.9E6	707.5E6	691.687	705.927
10) T	Pentachlo...	8.469	9.362	27845.6E6	9666.5E6	716.676	699.507
11) T	2,4,5-TP ...	9.035	9.739	11276.9E6	3473.3E6	715.279	701.077
12) T	2,4,5-T	9.319	10.153	11700.4E6	3100.5E6	723.467	720.167
13) T	2,4-DB	9.881	10.713	1833.5E6	353.1E6	706.900	697.417
14) T	DINOSEB	11.057	11.089	7561.9E6	2371.8E6	717.242	702.125
15) T	Picloram	10.873	12.164	14945.7E6	2997.4E6	694.265	717.525
16) T	DCPA	11.357	12.120	13154.6E6	3701.4E6	740.649	771.066

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027916.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 21:38
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

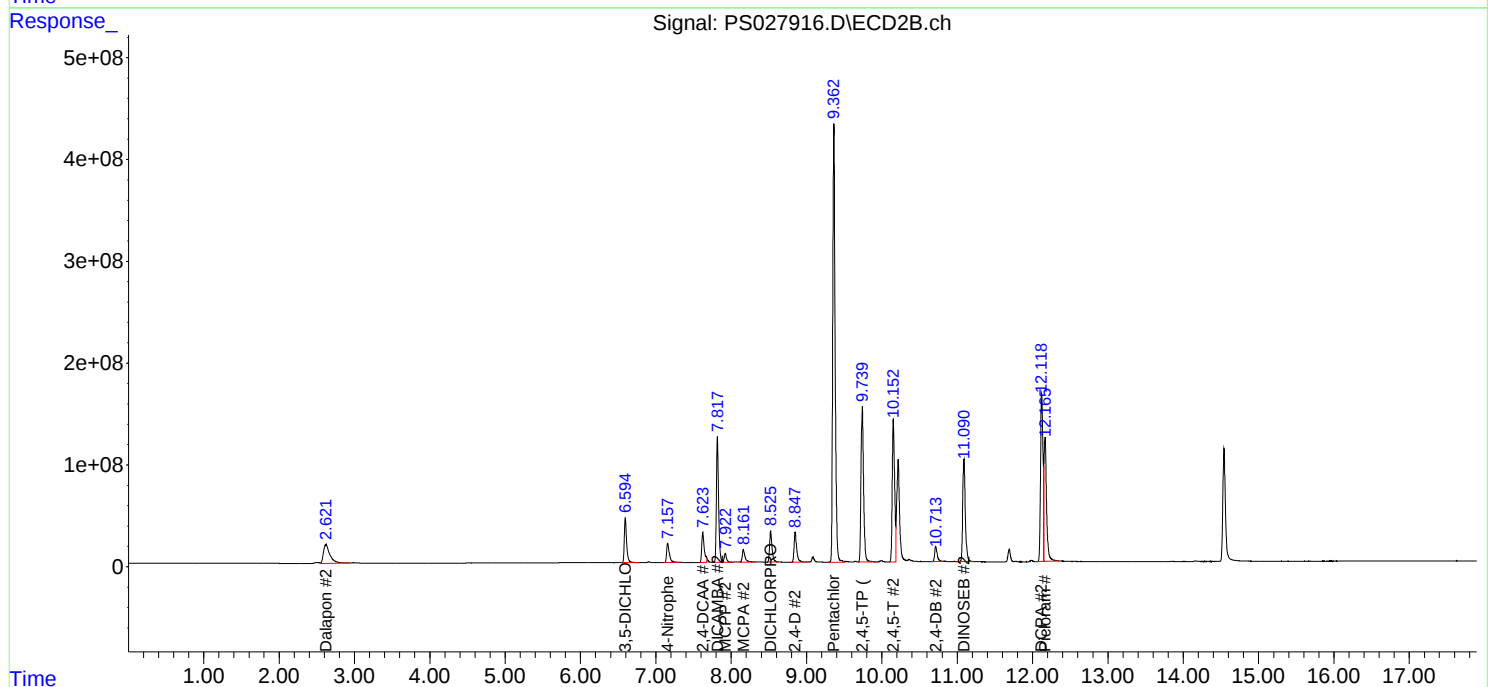
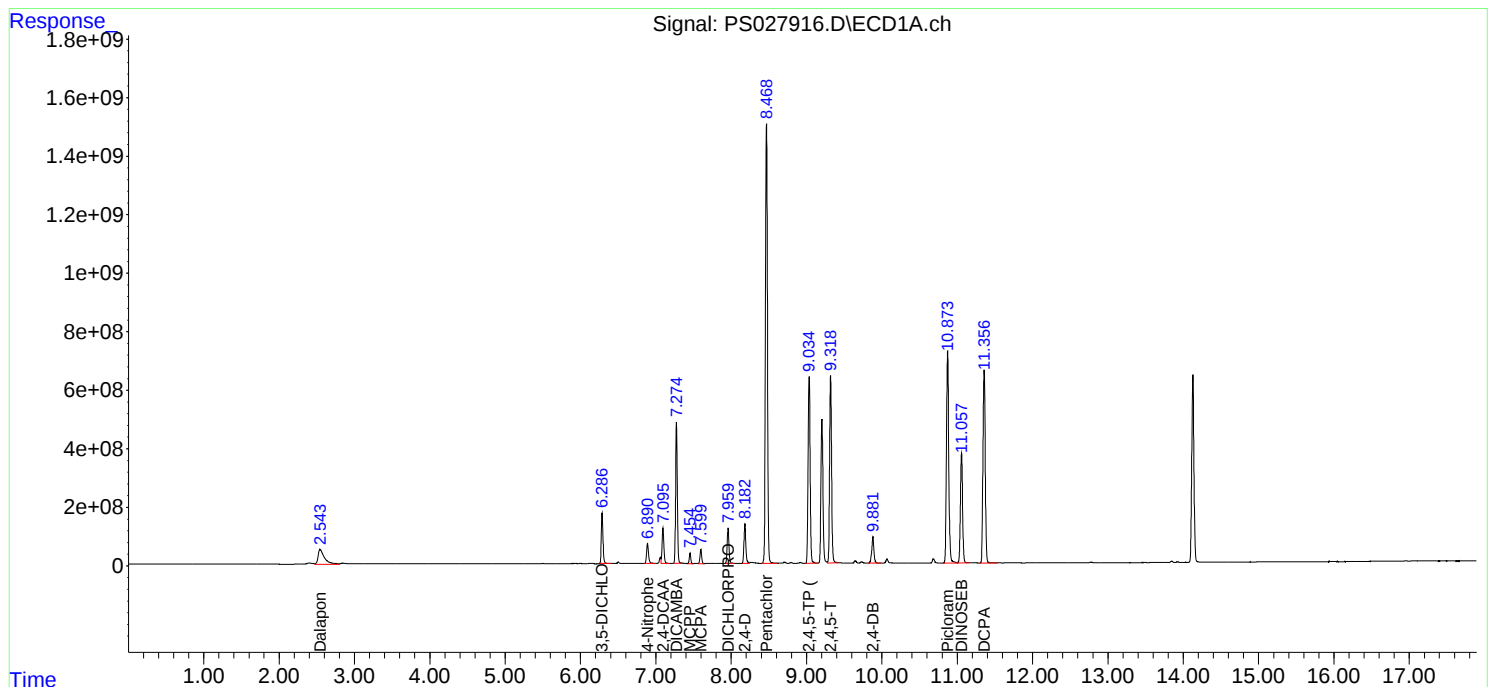
APPROVED

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 01:09:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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: Roman E&G Corp

SDG No.: P4258

Project: Perth Amboy

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/07/2024

10/07/2024

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 #
LBLK	LBLK	10/07/2024	10:14	PS027854.D	7.10	0.00
HSTDICC200	HSTDICC200	10/07/2024	11:12	PS027855.D	7.10	0.00
HSTDICC500	HSTDICC500	10/07/2024	11:36	PS027856.D	7.10	0.00
HSTDICC750	HSTDICC750	10/07/2024	12:00	PS027857.D	7.10	0.00
HSTDICC1000	HSTDICC1000	10/07/2024	12:23	PS027858.D	7.10	0.00
HSTDICC1500	HSTDICC1500	10/07/2024	12:47	PS027859.D	7.10	0.00
LBLK	LBLK	10/11/2024	10:13	PS027904.D	7.10	0.00
HSTDCCC750	HSTDCCC750	10/11/2024	10:37	PS027905.D	7.10	0.00
PB164060BL	PB164060BL	10/11/2024	17:39	PS027906.D	7.10	0.00
PB164060BS	PB164060BS	10/11/2024	18:03	PS027907.D	7.10	0.00
Chamberlain Ave	P4258-03	10/11/2024	18:27	PS027908.D	7.10	0.00
SP-1MS	P4385-02MS	10/11/2024	19:15	PS027910.D	7.09	0.00
SP-1MSD	P4385-02MSD	10/11/2024	19:39	PS027911.D	7.09	0.00
LBLK	LBLK	10/11/2024	21:14	PS027915.D	7.10	0.00
HSTDCCC750	HSTDCCC750	10/11/2024	21:38	PS027916.D	7.10	0.00

Analytical Sequence

Client: Roman E&G Corp

SDG No.: P4258

Project: Perth Amboy

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 10/07/2024

10/07/2024

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 #
1.BLK	1.BLK	10/07/2024	10:14	PS027854.D	7.63	0.00
HSTDICC200	HSTDICC200	10/07/2024	11:12	PS027855.D	7.63	0.00
HSTDICC500	HSTDICC500	10/07/2024	11:36	PS027856.D	7.63	0.00
HSTDICC750	HSTDICC750	10/07/2024	12:00	PS027857.D	7.63	0.00
HSTDICC1000	HSTDICC1000	10/07/2024	12:23	PS027858.D	7.63	0.00
HSTDICC1500	HSTDICC1500	10/07/2024	12:47	PS027859.D	7.63	0.00
1.BLK	1.BLK	10/11/2024	10:13	PS027904.D	7.62	0.00
HSTDCCC750	HSTDCCC750	10/11/2024	10:37	PS027905.D	7.62	0.00
PB164060BL	PB164060BL	10/11/2024	17:39	PS027906.D	7.62	0.00
PB164060BS	PB164060BS	10/11/2024	18:03	PS027907.D	7.62	0.00
Chamberlain Ave	P4258-03	10/11/2024	18:27	PS027908.D	7.62	0.00
SP-1MS	P4385-02MS	10/11/2024	19:15	PS027910.D	7.62	0.00
SP-1MSD	P4385-02MSD	10/11/2024	19:39	PS027911.D	7.62	0.00
1.BLK	1.BLK	10/11/2024	21:14	PS027915.D	7.62	0.00
HSTDCCC750	HSTDCCC750	10/11/2024	21:38	PS027916.D	7.62	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164060BS

Contract: ROMA02

Lab Code: CHEM

Case No.: P4258

SAS No.: P4258

SDG NO.: P4258

Lab Sample ID: PB164060BS

Date(s) Analyzed: 10/11/2024

10/11/2024

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		
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	176	1.1
	2	9.74	9.69	9.79	174	
2,4,5-T	1	9.32	9.27	9.37	164	1.2
	2	10.15	10.10	10.20	162	
DICHLORPROP	1	7.96	7.91	8.01	168	1.2
	2	8.53	8.48	8.58	170	
2,4-D	1	8.18	8.13	8.23	178	10.1
	2	8.85	8.80	8.90	197	
2,4-DB	1	9.88	9.83	9.93	170	9
	2	10.72	10.67	10.77	186	
Dinoseb	1	11.06	11.01	11.11	162	0
	2	11.09	11.04	11.14	162	
DICAMBA	1	7.28	7.23	7.33	160	7.1
	2	7.82	7.77	7.87	149	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SP-1MS

Contract: ROMA02

Lab Code: CHEM

Case No.: P4258

SAS No.: P4258

SDG NO.: P4258

Lab Sample ID: P4385-02MS

Date(s) Analyzed: 10/11/2024

10/11/2024

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		
2,4,5-T	1	9.32	9.27	9.37	72.3	2.2
	2	10.15	10.10	10.20	70.7	
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	56.7	9.8
	2	9.74	9.69	9.79	51.4	
2,4-D	1	8.18	8.13	8.23	98.4	3.6
	2	8.85	8.80	8.90	102	
2,4-DB	1	9.88	9.83	9.93	88.2	40.7
	2	10.71	10.66	10.76	58.4	
DICHLORPROP	1	7.96	7.91	8.01	79.7	0.4
	2	8.52	8.47	8.57	80.0	
DICAMBA	1	7.27	7.22	7.32	94.8	20.3
	2	7.82	7.77	7.87	77.3	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

SP-1MSD

Contract: ROMA02

Lab Code: CHEM Case No.: P4258

SAS No.: P4258 SDG NO.: P4258

Lab Sample ID: P4385-02MSD

Date(s) Analyzed: 10/11/2024 10/11/2024

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	7.96	7.91	8.01	78.9	2.7
	2	8.53	8.48	8.58	81.1	
2,4-D	1	8.18	8.13	8.23	99.7	1.3
	2	8.85	8.80	8.90	101	
2,4,5-TP(Silvex)	1	9.03	8.98	9.08	55.6	15.7
	2	9.74	9.69	9.79	47.5	
2,4,5-T	1	9.32	9.27	9.37	71.4	0.1
	2	10.15	10.10	10.20	71.3	
2,4-DB	1	9.88	9.83	9.93	52.4	5.4
	2	10.71	10.66	10.76	55.3	
DICAMBA	1	7.27	7.22	7.32	96.3	20.5
	2	7.82	7.77	7.87	78.4	



QC SAMPLE DATA

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	PB164060BL	SDG No.:	P4258
Lab Sample ID:	PB164060BL	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 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
PS027906.D	1	10/11/24 08:31	10/11/24 17:39	PB164060

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	8.70	U	8.70	67.0	ug/Kg
120-36-5	DICHLORPROP	9.50	U	9.50	67.0	ug/Kg
94-75-7	2,4-D	12.1	U	12.1	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	9.40	U	9.40	67.0	ug/Kg
93-76-5	2,4,5-T	10.1	U	10.1	67.0	ug/Kg
94-82-6	2,4-DB	18.3	U	18.3	67.0	ug/Kg
88-85-7	DINOSEB	12.4	U	12.4	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	487		10 - 141	97%	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\PS101124\
 Data File : PS027906.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 17:39
 Operator : AR\AJ
 Sample : PB164060BL
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164060BL

Manual Integrations
APPROVED

Reviewed By :Abdul
 Mirza

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 00:53:39 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 Response via : Initial Calibration
 Integrator: ChemStation

10/14/2024
 Supervised By :Ankita
 Jodhani

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	10/14/2024
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System Monitoring Compounds

4) S	2,4-DCAA	7.097	7.621	1311.1E6	433.4E6	486.620m	436.190
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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\PS101124\
Data File : PS027906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 17:39
Operator : AR\AJ
Sample : PB164060BL
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164060BL

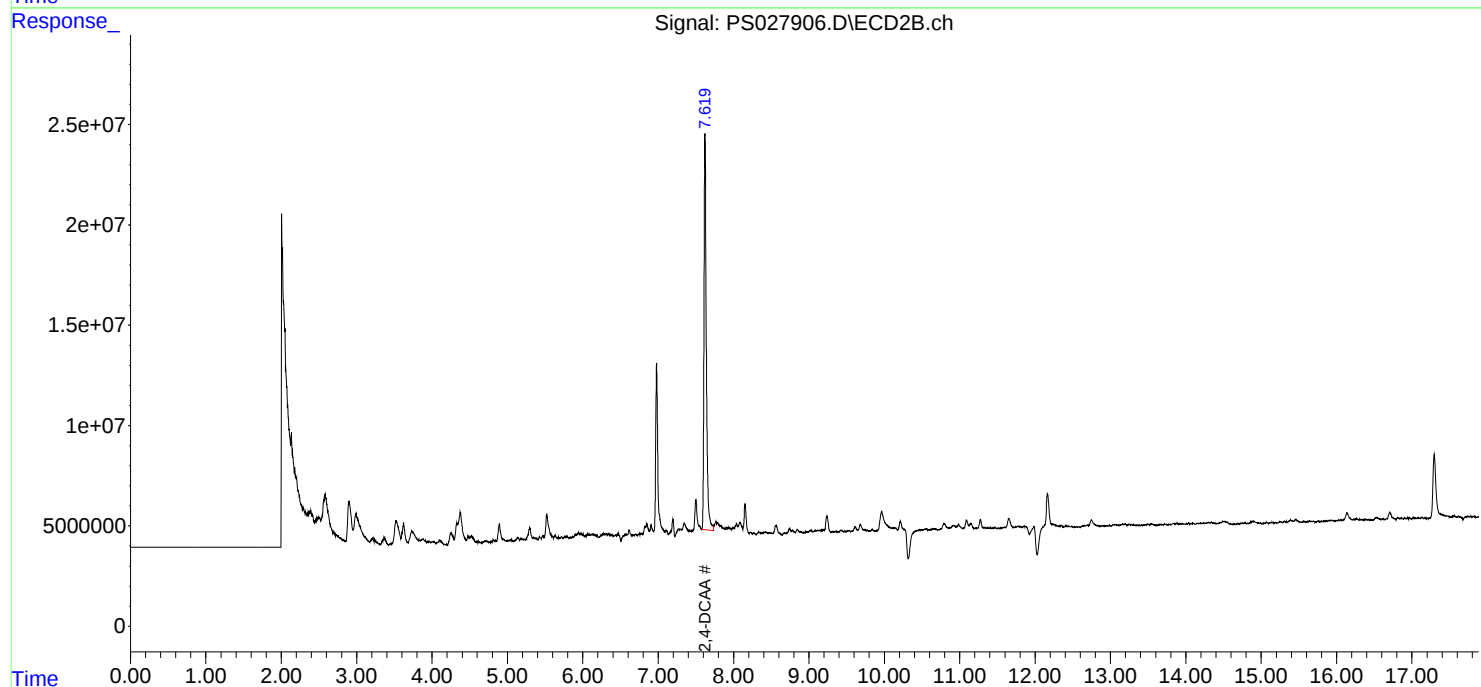
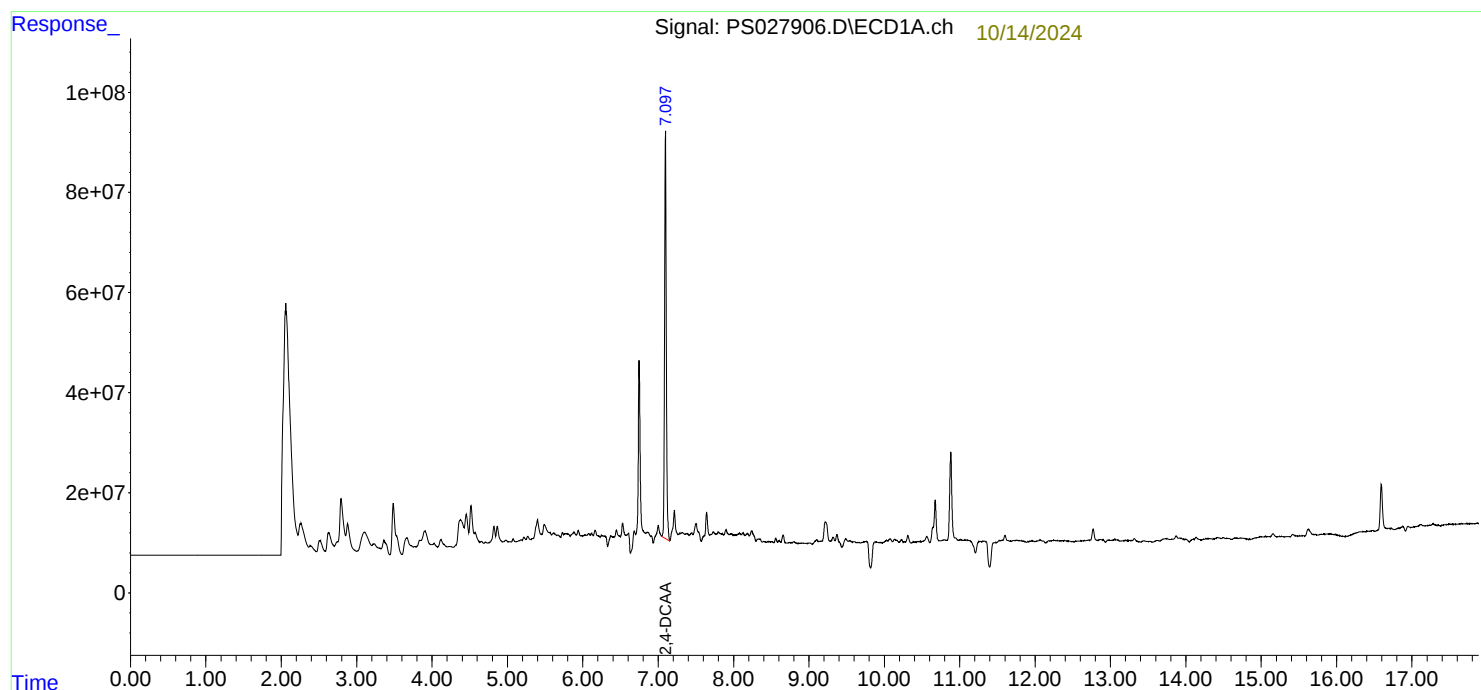
Manual Integrations
APPROVED

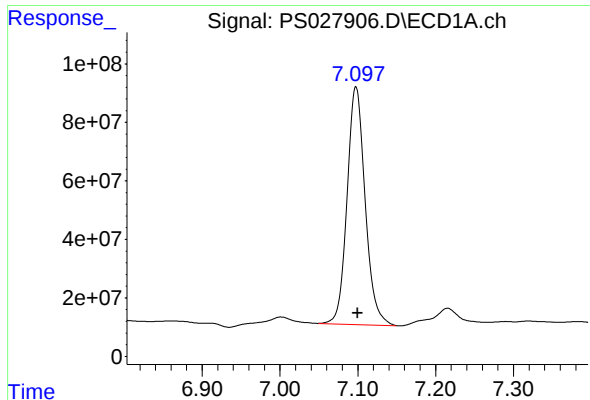
Reviewed By :Abdul
Mirza

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:53:39 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
Response via : Initial Calibration
Integrator: ChemStation

10/14/2024
Supervised By :Ankita
Jodhani

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





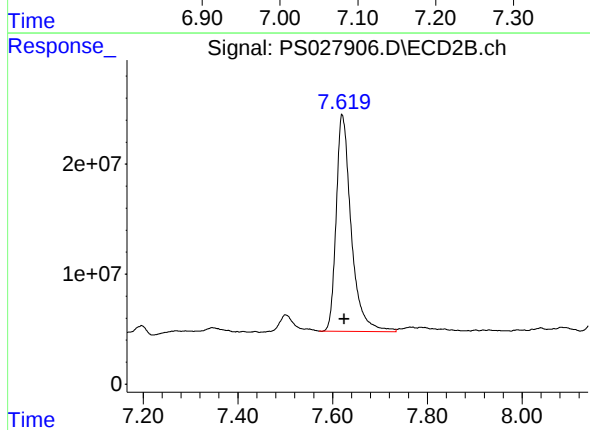
#4 2,4-DCAA

R.T.: 7.097 min
Delta R.T.: -0.003 min
Response: 1311096342
Conc: 486.62 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164060BL

Manual Integrations
APPROVED

Reviewed By :Abdul
Mirza



#4 2,4-DCAA

R.T.: 7.621 min
Delta R.T.: -0.004 min
Response: 433435994
Conc: 436.19 ng/ml

10/14/2024
Supervised By :Ankita
Jodhani

10/14/2024

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/07/24
Project:	Perth Amboy	Date Received:	10/07/24
Client Sample ID:	PIBLK-PS027854.D	SDG No.:	P4258
Lab Sample ID:	I.BLK-PS027854.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS027854.D	1		10/07/24	PS100724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	510		39 - 175	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\PS100724\
Data File : PS027854.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 10:14
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: Oct 07 13:47:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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	7.098	7.627	1374.6E6	475.6E6	510.207	478.663
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Target Compounds

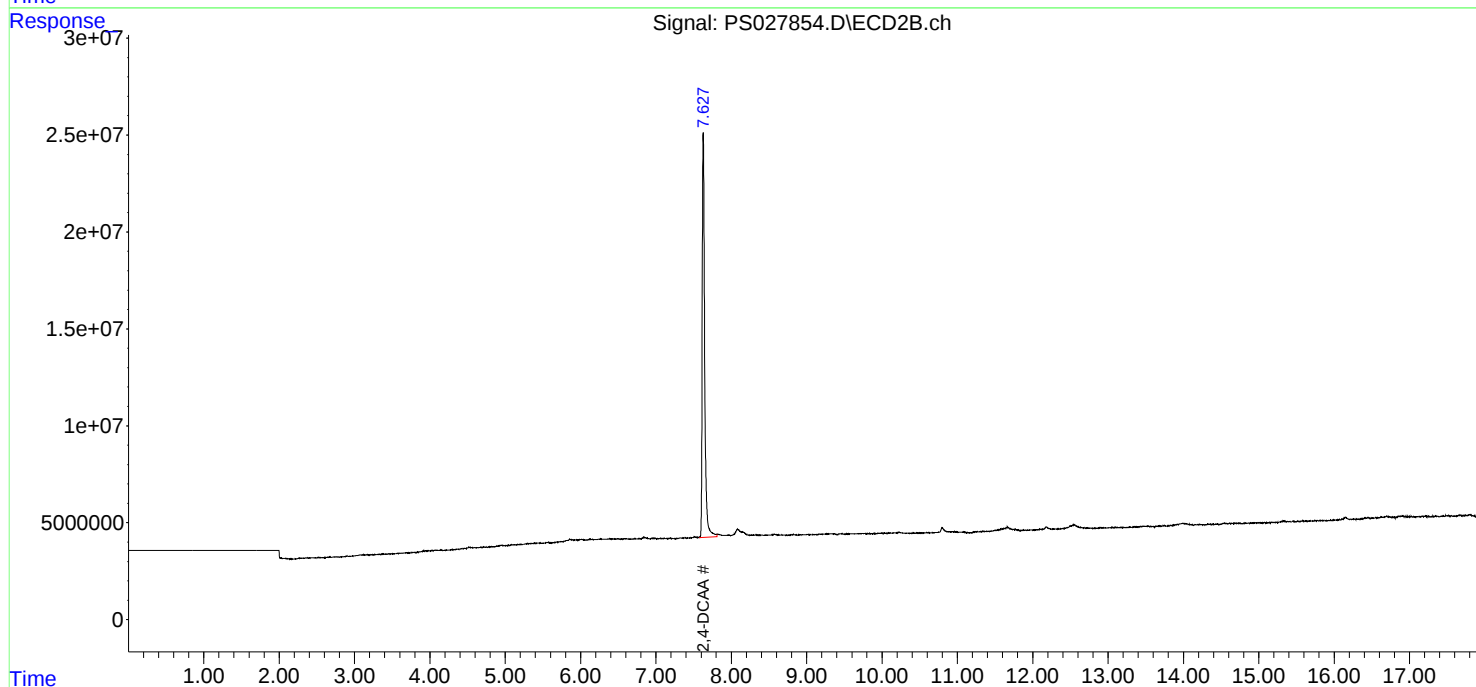
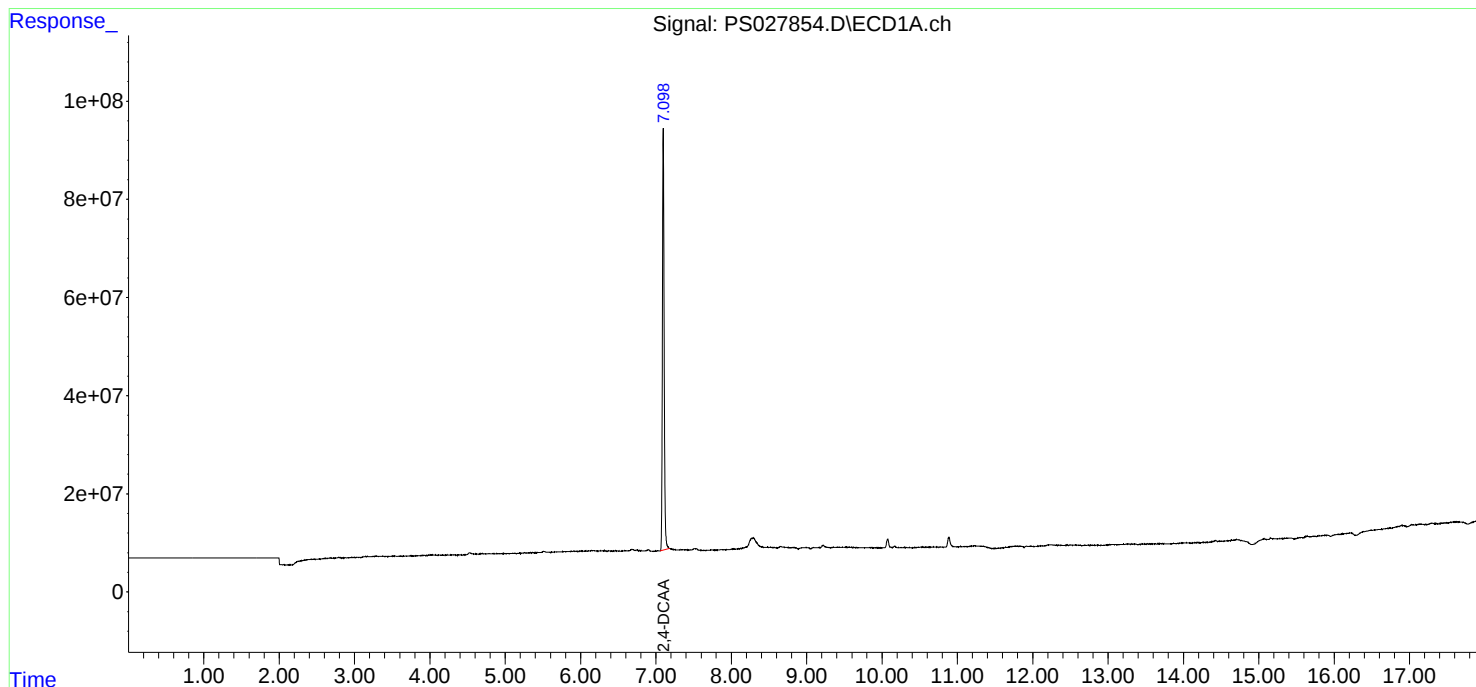
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

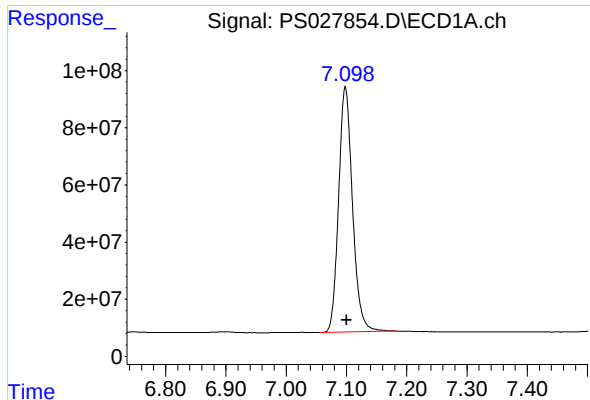
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS100724\
Data File : PS027854.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 07 Oct 2024 10:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 07 13:47:59 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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

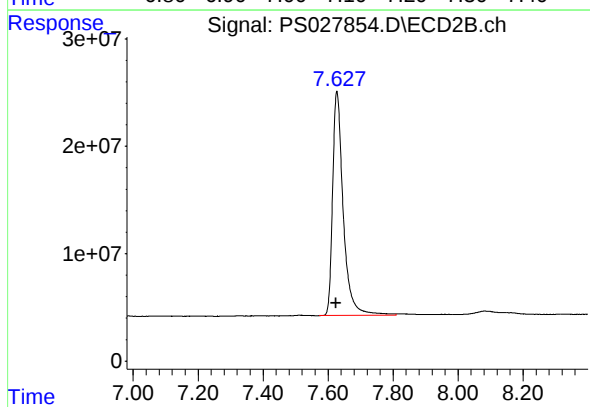




#4 2,4-DCAA

R.T.: 7.098 min
Delta R.T.: -0.002 min
Response: 1374646999
Conc: 510.21 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK



#4 2,4-DCAA

R.T.: 7.627 min
Delta R.T.: 0.002 min
Response: 475640063
Conc: 478.66 ng/ml

Report of Analysis

Client:	Roman E&G Corp		Date Collected:	10/11/24	
Project:	Perth Amboy		Date Received:	10/11/24	
Client Sample ID:	PIBLK-PS027904.D		SDG No.:	P4258	
Lab Sample ID:	I.BLK-PS027904.D		Matrix:	WATER	
Analytical Method:	SW8151A		% Solid:	0	Decanted:
Sample Wt/Vol:	1000	Units: mL	Final Vol:	10000	uL
Soil Aliquot Vol:		uL	Test:	Herbicide	
Extraction Type:			Injection Volume :		
GPC Factor :	1.0	PH :			
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PS027904.D	1		10/11/24	PS101124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	520		39 - 175	104%	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\PS101124\
Data File : PS027904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 10:13
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: Oct 14 00:52:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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
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System Monitoring Compounds

4) S	2,4-DCAA	7.095	7.623	1401.6E6	482.4E6	520.229	485.455
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Target Compounds

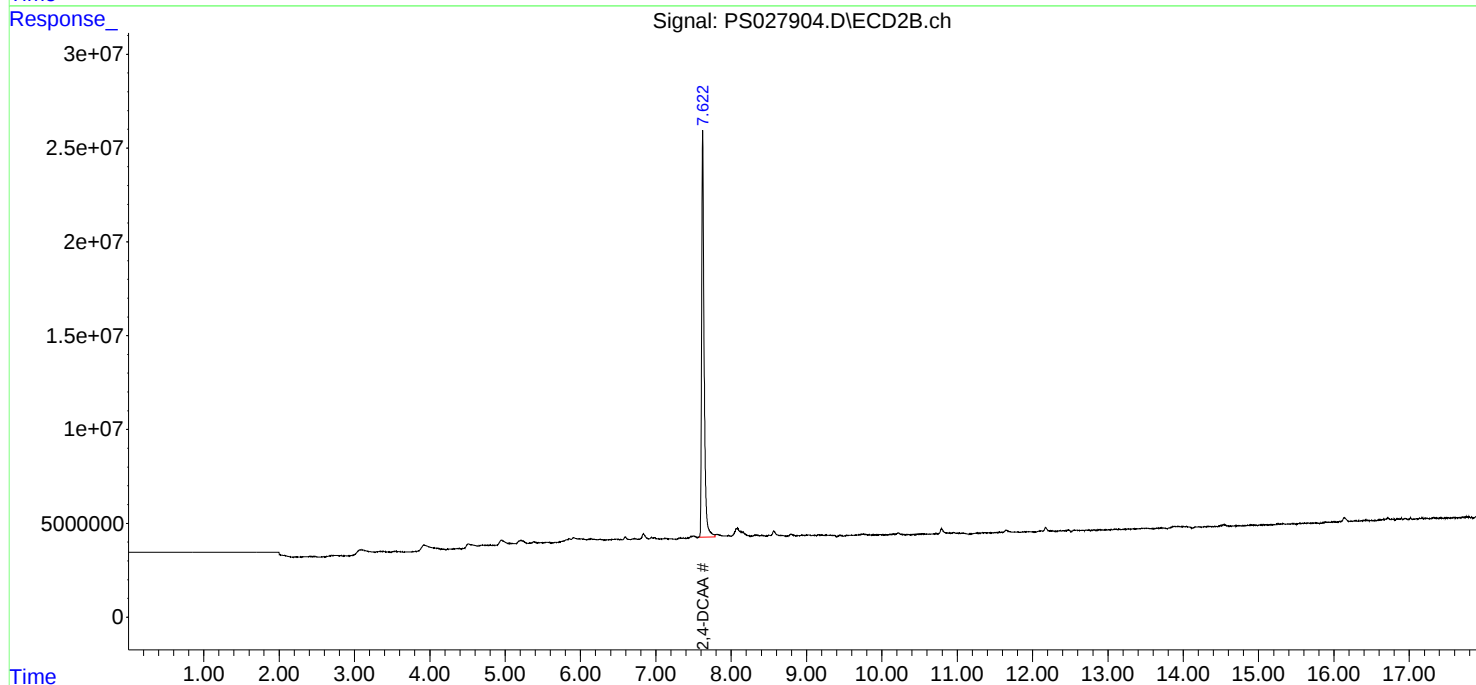
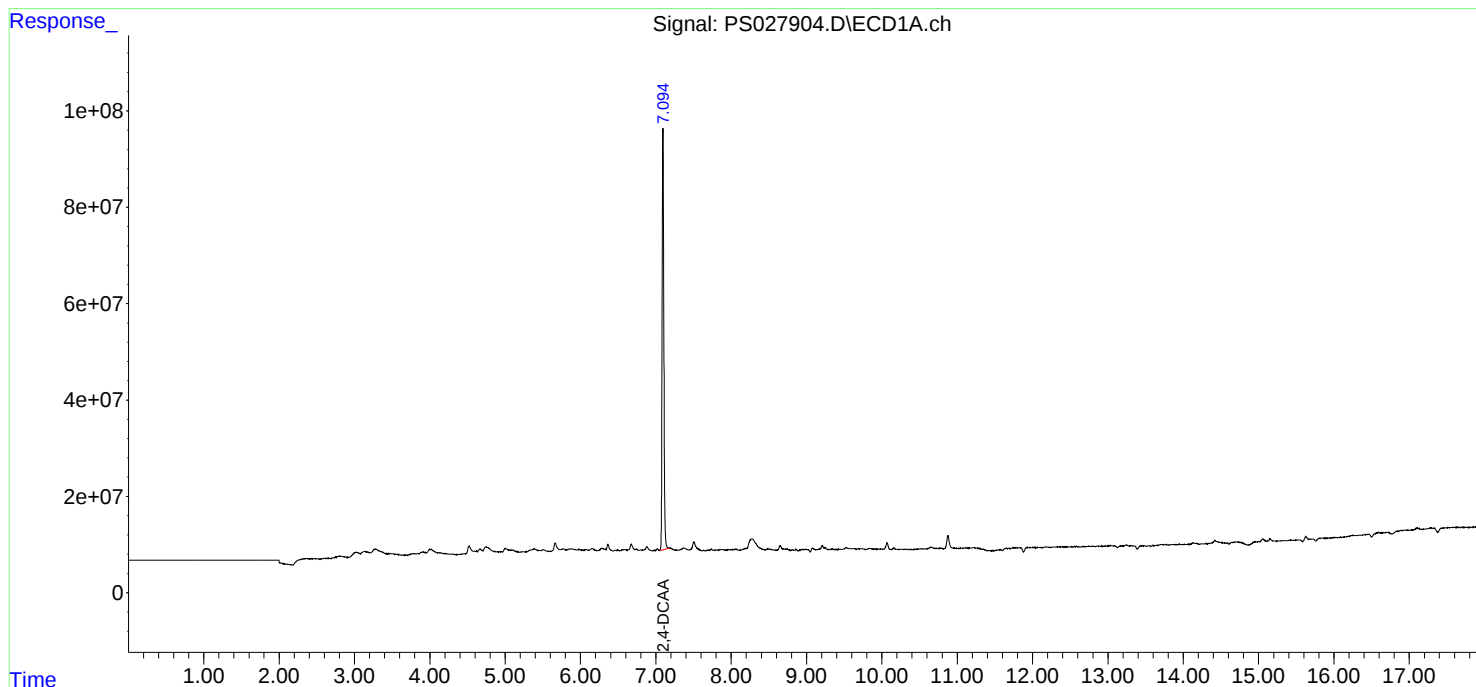
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

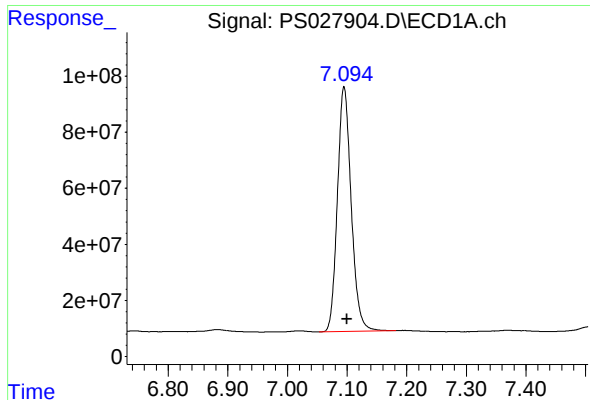
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 10:13
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:52:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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.: 7.095 min

Delta R.T.: -0.005 min

Response: 1401647839

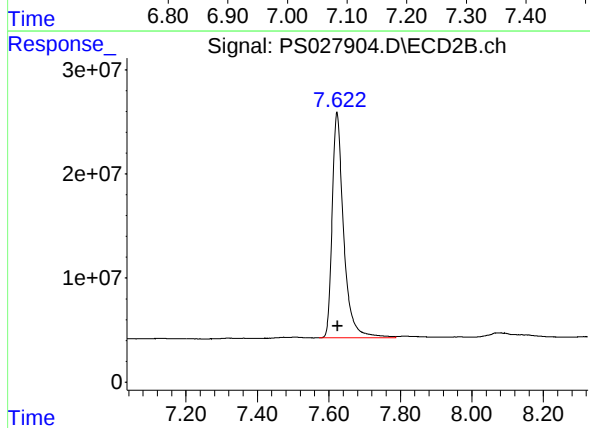
Conc: 520.23 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.623 min

Delta R.T.: -0.002 min

Response: 482389359

Conc: 485.45 ng/ml

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/11/24
Project:	Perth Amboy	Date Received:	10/11/24
Client Sample ID:	PIBLK-PS027915.D	SDG No.:	P4258
Lab Sample ID:	I.BLK-PS027915.D	Matrix:	WATER
Analytical Method:	SW8151A	% 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
PS027915.D	1		10/11/24	PS101124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1918-00-9	DICAMBA	0.42	U	0.42	2.00	ug/L
120-36-5	DICHLORPROP	0.43	U	0.43	2.00	ug/L
94-75-7	2,4-D	0.49	U	0.49	2.00	ug/L
93-72-1	2,4,5-TP (Silvex)	0.45	U	0.45	2.00	ug/L
93-76-5	2,4,5-T	0.50	U	0.50	2.00	ug/L
94-82-6	2,4-DB	0.57	U	0.57	2.00	ug/L
88-85-7	DINOSEB	0.55	U	0.55	2.00	ug/L
SURROGATES						
19719-28-9	2,4-DCAA	518		39 - 175	104%	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\PS101124\
Data File : PS027915.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 21:14
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: Oct 14 01:09:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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	7.096	7.623	1395.8E6	480.5E6	518.051	483.581
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Target Compounds

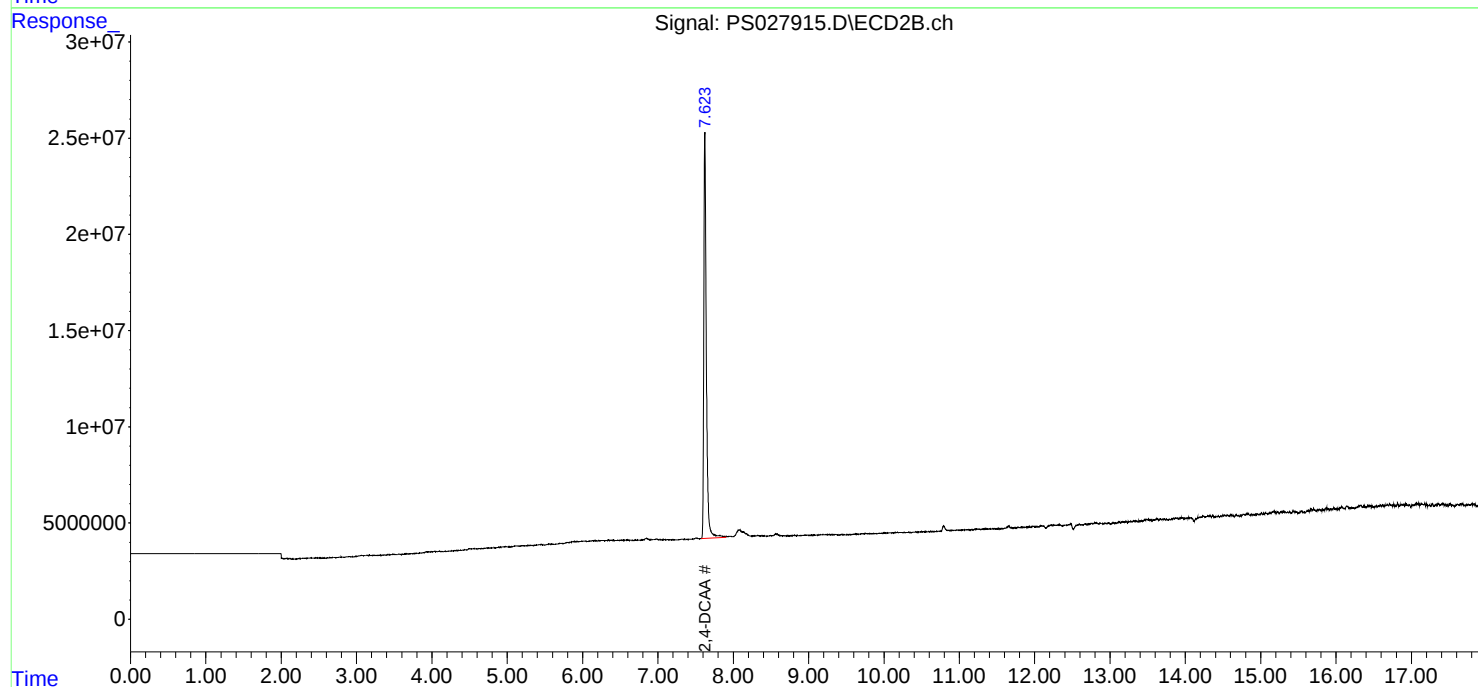
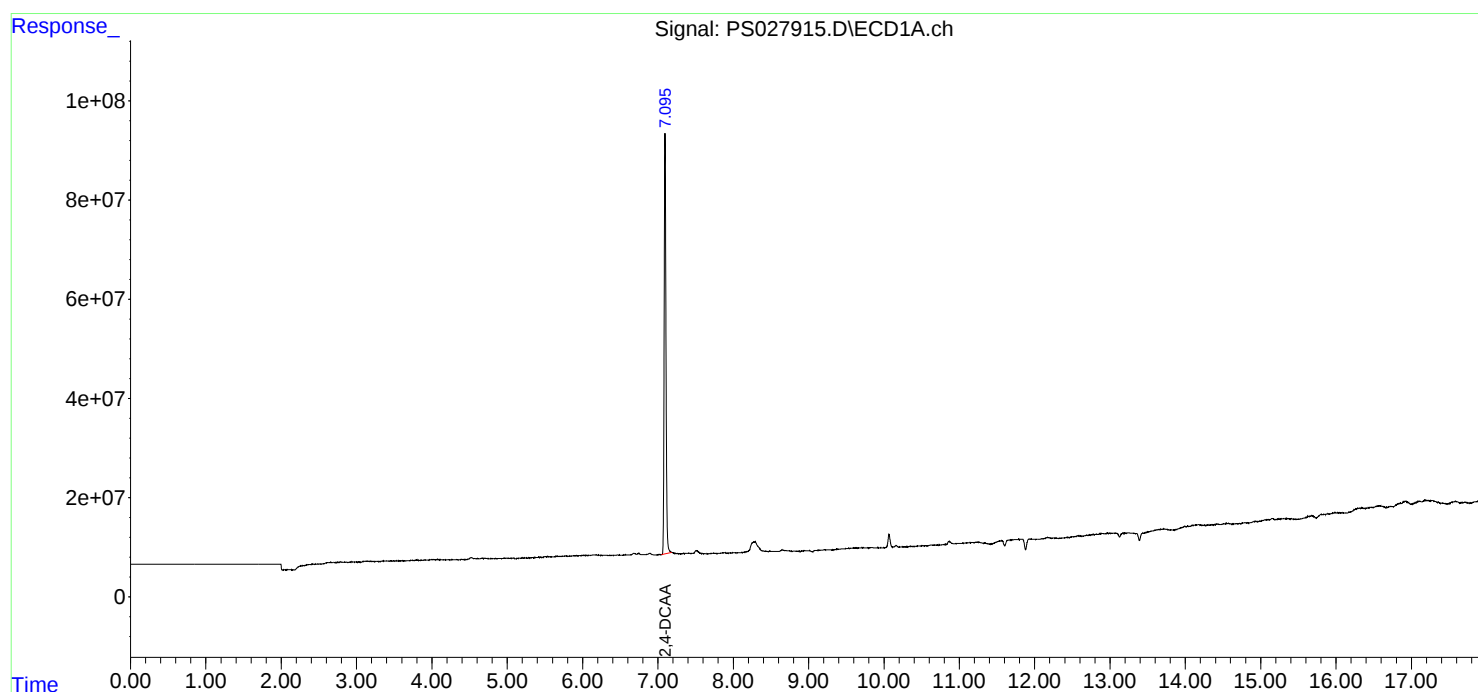
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

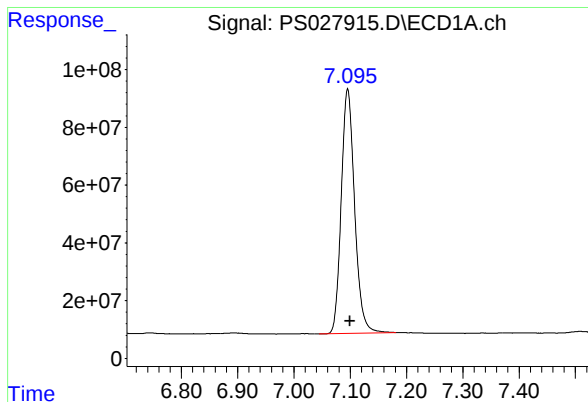
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027915.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 21:14
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 01:09:09 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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.: 7.096 min

Delta R.T.: -0.005 min

Response: 1395781041

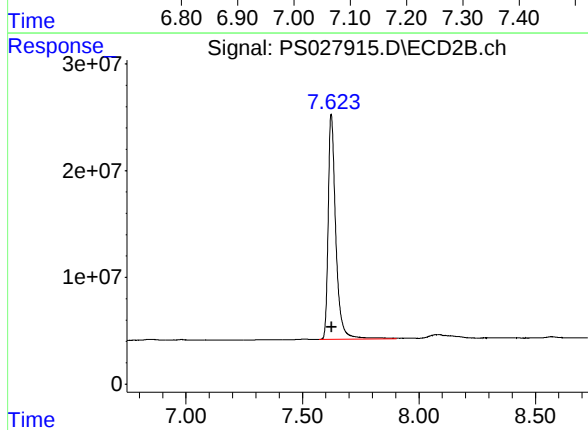
Conc: 518.05 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.623 min

Delta R.T.: -0.001 min

Response: 480527329

Conc: 483.58 ng/ml

Report of Analysis

Client:	Roman E&G Corp	Date Collected:	
Project:	Perth Amboy	Date Received:	
Client Sample ID:	PB164060BS	SDG No.:	P4258
Lab Sample ID:	PB164060BS	Matrix:	SOIL
Analytical Method:	SW8151A	% 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
PS027907.D	1	10/11/24 08:31	10/11/24 18:03	PB164060

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	160		8.70	67.0	ug/Kg
120-36-5	DICHLORPROP	170		9.50	67.0	ug/Kg
94-75-7	2,4-D	197		12.1	67.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	176		9.40	67.0	ug/Kg
93-76-5	2,4,5-T	164		10.1	67.0	ug/Kg
94-82-6	2,4-DB	186		18.3	67.0	ug/Kg
88-85-7	DINOSEB	162		12.4	67.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	590		10 - 141	118%	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\PS101124\
 Data File : PS027907.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 18:03
 Operator : AR\AJ
 Sample : PB164060BS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164060BS

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 00:54:32 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.096	7.624	1588.7E6	528.9E6	589.656	532.227
Target Compounds							
1) T	Dalapon	2.545	2.625	1850.5E6	719.1E6	412.335	431.702
2) T	3,5-DICHL...	6.287	6.595	1954.8E6	690.3E6	492.135	504.825
3) T	4-Nitroph...	6.891	7.159	859.6E6	291.1E6	470.790	428.834
5) T	DICAMBA	7.275	7.819	5229.5E6	1558.0E6	479.373	448.070
6) T	MCPD	7.452	7.920	347.3E6	142.5E6	46.703	51.785
7) T	MCPA	7.597	8.160	511.9E6	254.5E6	48.329	50.883
8) T	DICHLORPROP	7.960	8.525	1445.9E6	503.8E6	505.265	510.515
9) T	2,4-D	8.182	8.850	1797.1E6	593.1E6	534.219	591.749
10) T	Pentachlo...	8.469	9.362	20373.9E6	6874.9E6	524.374	497.500
11) T	2,4,5-TP ...	9.034	9.739	8317.7E6	2594.3E6	527.577	523.642
12) T	2,4,5-T	9.320	10.154	7955.3E6	2092.8E6	491.900	486.106
13) T	2,4-DB	9.883	10.715	1319.8E6	282.0E6	508.869	556.866
14) T	DINOSEB	11.058	11.089	5131.7E6	1642.3E6	486.742	486.180
15) T	Picloram	10.874	12.163	8774.5E6	1658.1E6	407.595	396.930
16) T	DCPA	11.356	12.121	9812.7E6	3059.1E6	552.490	637.274

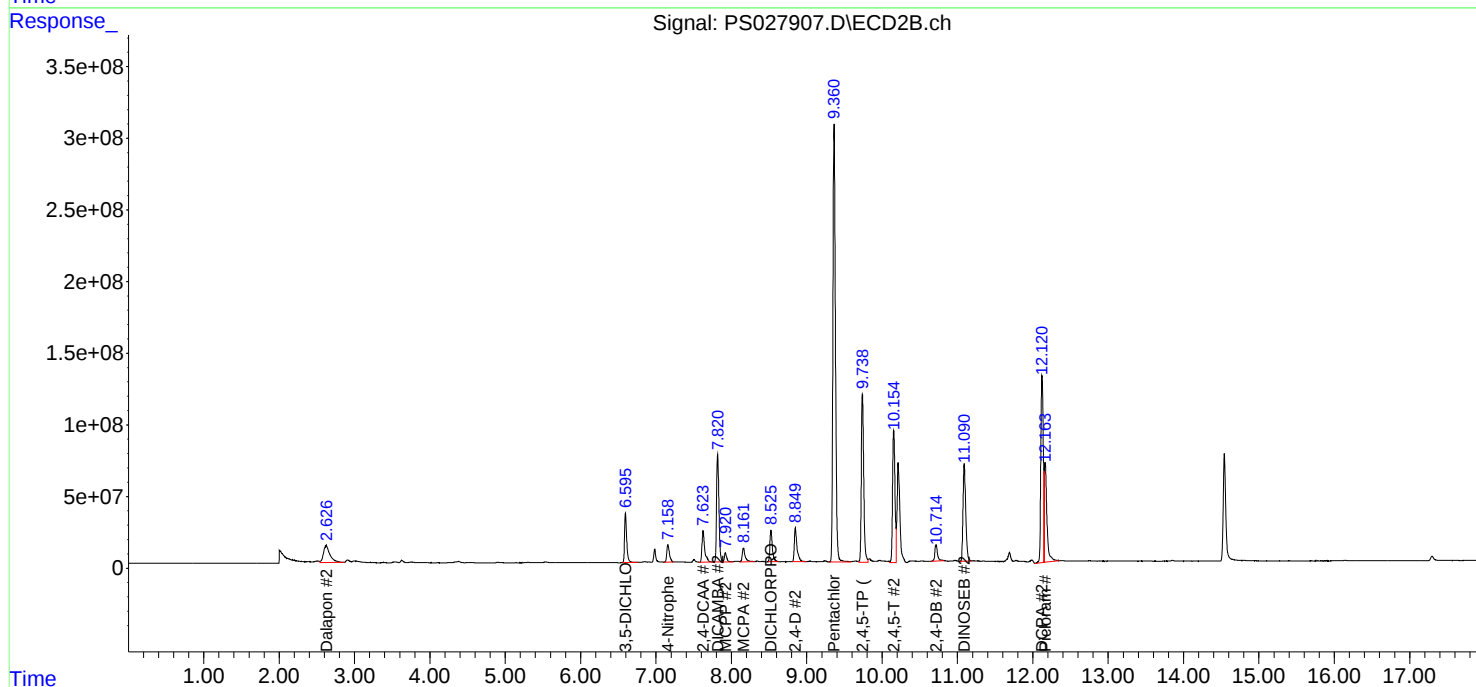
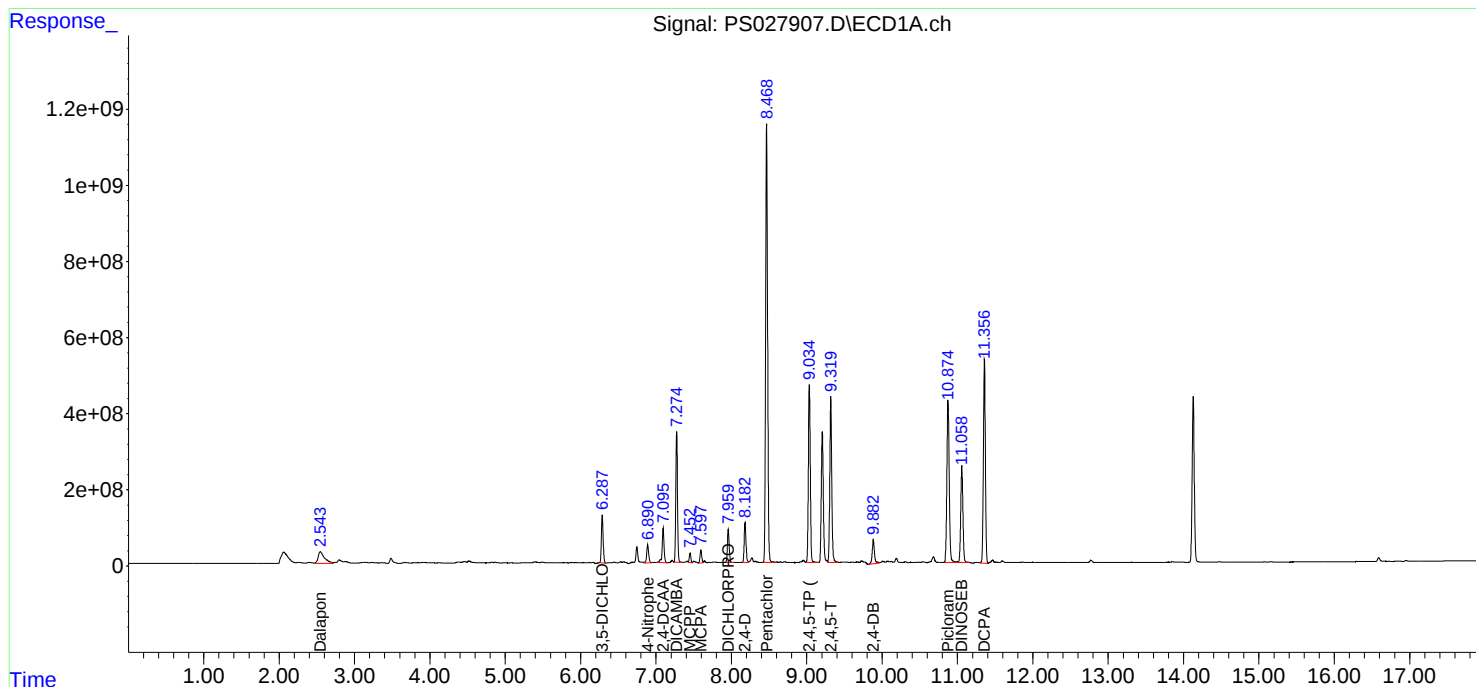
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 18:03
Operator : AR\AJ
Sample : PB164060BS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
PB164060BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 00:54:32 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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



Report of Analysis

Client:	Roman E&G Corp	Date Collected:	10/10/24
Project:	Perth Amboy	Date Received:	10/10/24
Client Sample ID:	SP-1MS	SDG No.:	P4258
Lab Sample ID:	P4385-02MS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	93.4
Sample Wt/Vol:	30.08	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
PS027910.D	1	10/11/24 08:31	10/11/24 19:15	PB164060

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	94.8		9.30	71.5	ug/Kg
120-36-5	DICHLORPROP	80.0		10.2	71.5	ug/Kg
94-75-7	2,4-D	102		12.9	71.5	ug/Kg
93-72-1	2,4,5-TP (Silvex)	56.7	J	10.0	71.5	ug/Kg
93-76-5	2,4,5-T	72.3		10.8	71.5	ug/Kg
94-82-6	2,4-DB	88.2	P	19.5	71.5	ug/Kg
88-85-7	DINOSEB	13.2	U	13.2	71.5	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	490		10 - 141	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\PS101124\
 Data File : PS027910.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 19:15
 Operator : AR\AJ
 Sample : P4385-02MS
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

SP-1MS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 03:02:58 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.094	7.624	1320.3E6	358.7E6	490.050m	360.991m#
Target Compounds							
1) T	Dalapon	2.545	2.607	1471.7E6	426.7E6	327.918	256.163m
2) T	3,5-DICHL...	6.287	6.597	908.1E6	281.9E6	228.615	206.147
3) T	4-Nitroph...	6.890	7.160	293.7E6	90780179	160.874m	133.738m
5) T	DICAMBA	7.274	7.818	2905.6E6	755.5E6	266.341	217.288
6) T	MCP	7.449	7.918	158.4E6	49023483	21.295	17.812
7) T	MCPA	7.595	8.158	320.3E6	166.7E6	30.242	33.326
8) T	DICHLORPROP	7.959	8.524	640.5E6	221.9E6	223.817	224.885
9) T	2,4-D	8.182	8.849	930.4E6	286.0E6	276.580	285.305
10) T	Pentachlo...	8.468	9.363	4810.7E6	1183.0E6	123.815	85.610 #
11) T	2,4,5-TP ...	9.034	9.739	2512.6E6	715.2E6	159.370	144.368
12) T	2,4,5-T	9.319	10.152	3283.0E6	854.7E6	202.998	198.523
13) T	2,4-DB	9.883	10.712	642.4E6	83053881	247.671	164.025 #
14) T	DINOSEB	11.057	11.091	245.5E6	90440272	23.286m	26.773
15) T	Picloram	10.874	12.165	5187.3E6	891.5E6	240.960	213.411
16) T	DCPA	11.355	12.121	6139.1E6	1735.0E6	345.651m	361.437

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027910.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:15
Operator : AR\AJ
Sample : P4385-02MS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

SP-1MS

Manual Integrations

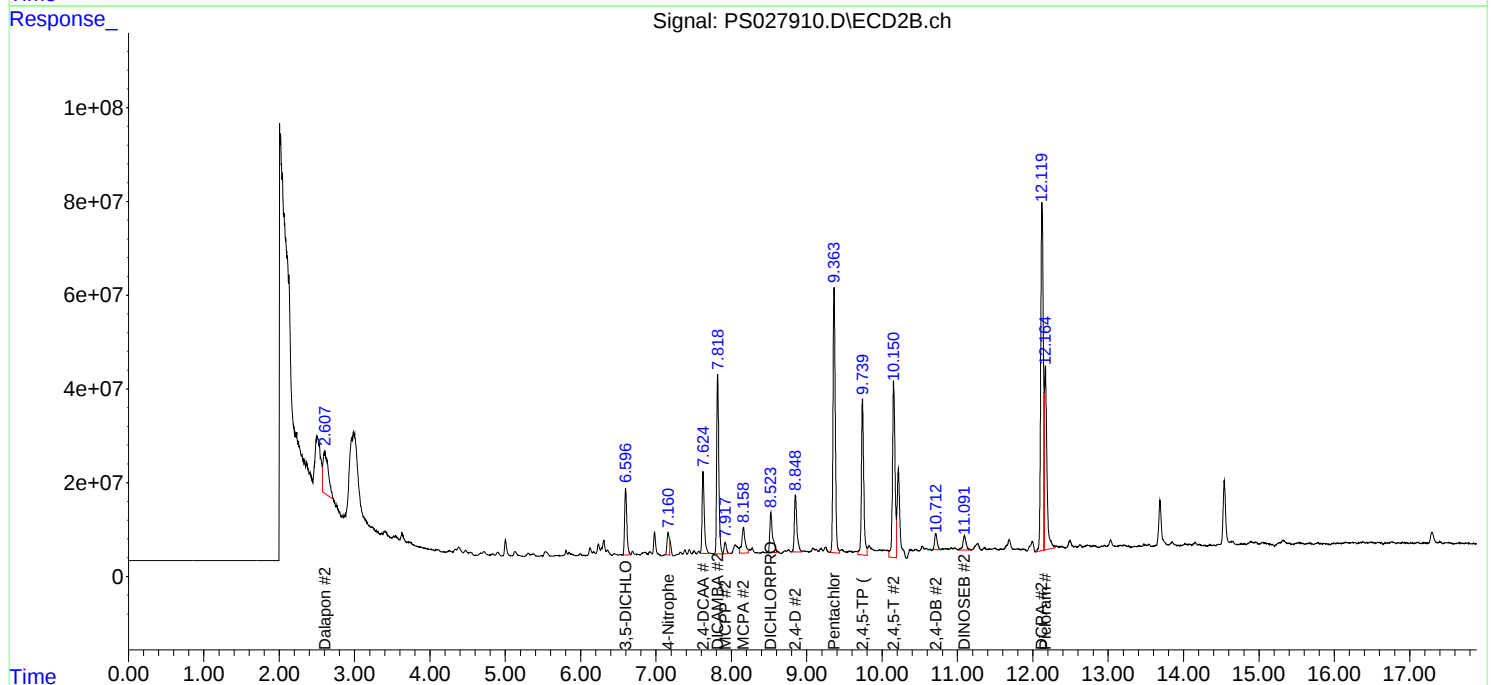
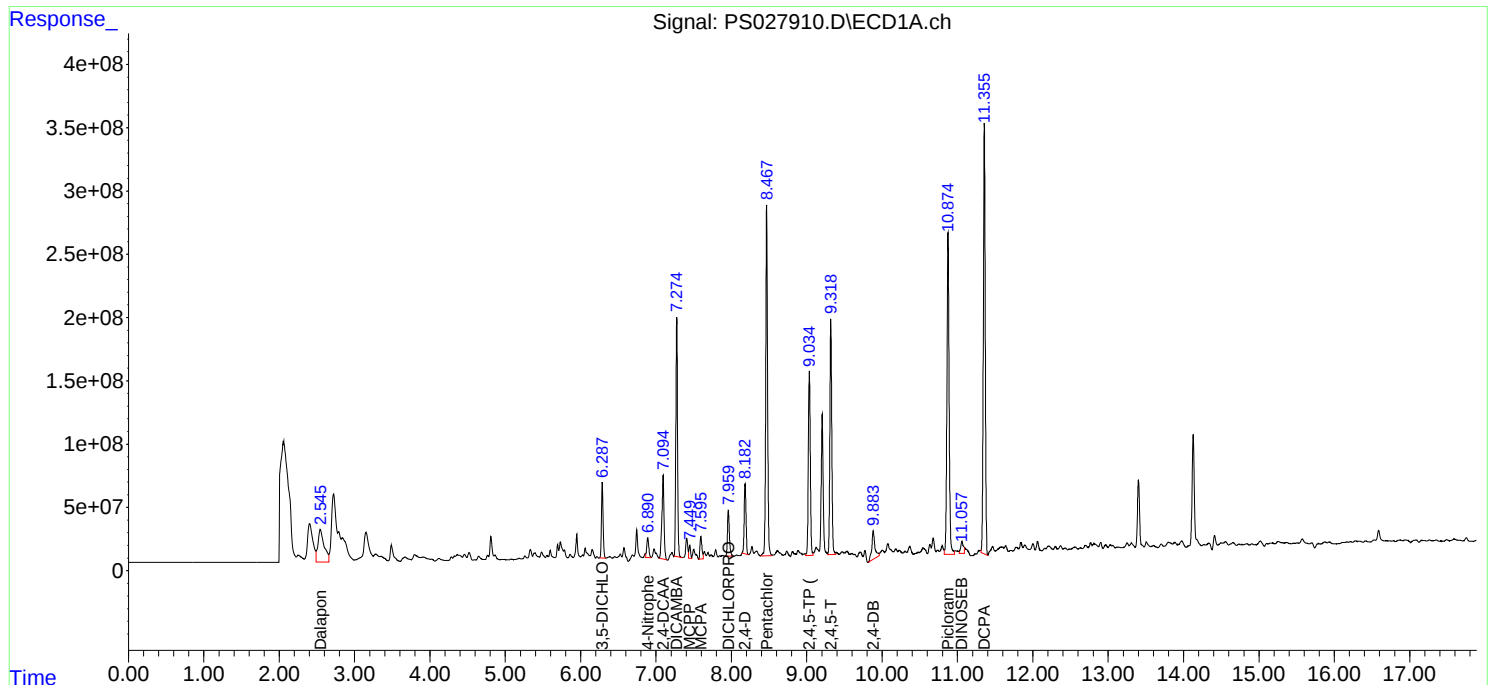
APPROVED

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:02:58 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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:	Roman E&G Corp	Date Collected:	10/10/24
Project:	Perth Amboy	Date Received:	10/10/24
Client Sample ID:	SP-1MSD	SDG No.:	P4258
Lab Sample ID:	P4385-02MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	93.4
Sample Wt/Vol:	30.05	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
PS027911.D	1	10/11/24 08:31	10/11/24 19:39	PB164060

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	96.3		9.30	71.6	ug/Kg
120-36-5	DICHLORPROP	81.1		10.2	71.6	ug/Kg
94-75-7	2,4-D	101		12.9	71.6	ug/Kg
93-72-1	2,4,5-TP (Silvex)	55.6	J	10.0	71.6	ug/Kg
93-76-5	2,4,5-T	71.4	J	10.8	71.6	ug/Kg
94-82-6	2,4-DB	55.3	J	19.6	71.6	ug/Kg
88-85-7	DINOSEB	13.3	U	13.3	71.6	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	511		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\PS101124\
 Data File : PS027911.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Oct 2024 19:39
 Operator : AR\AJ
 Sample : P4385-02MSD
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

SP-1MSD

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Oct 14 03:03:51 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
 Quant Title : 8080.M
 QLast Update : Mon Oct 07 13:46:03 2024
 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	7.093	7.623	1375.7E6	368.2E6	510.592m	370.560m#
Target Compounds							
1) T	Dalapon	2.545	2.615	1491.5E6	450.6E6	332.347	270.542m
2) T	3,5-DICHL...	6.287	6.595	916.0E6	286.0E6	230.609	209.116
3) T	4-Nitroph...	6.890	7.158	301.1E6	108.2E6	164.920m	159.379m
5) T	DICAMBA	7.274	7.819	2948.6E6	765.0E6	270.288	220.017
6) T	MCPD	7.449	7.918	159.2E6	51743334	21.413	18.800
7) T	MCPA	7.595	8.160	321.7E6	121.5E6	30.375	24.280m
8) T	DICHLORPROP	7.960	8.525	633.7E6	224.7E6	221.439	227.645
9) T	2,4-D	8.182	8.851	941.3E6	284.5E6	279.800	283.877
10) T	Pentachlo...	8.468	9.363	4669.3E6	1167.6E6	120.177	84.495 #
11) T	2,4,5-TP ...	9.034	9.739	2458.8E6	660.5E6	155.955	133.313
12) T	2,4,5-T	9.319	10.153	3240.6E6	861.7E6	200.374	200.160
13) T	2,4-DB	9.882	10.714	381.8E6	78540468	147.189m	155.111
14) T	DINOSEB	11.056	11.088	135.6E6	90336221	12.862m	26.742 #
15) T	Picloram	10.873	12.163	5324.2E6	869.1E6	247.323	208.055m
16) T	DCPA	11.356	12.123	6572.2E6	1825.9E6	370.036	380.363m

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS101124\
Data File : PS027911.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Oct 2024 19:39
Operator : AR\AJ
Sample : P4385-02MSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

SP-1MSD

Manual Integrations

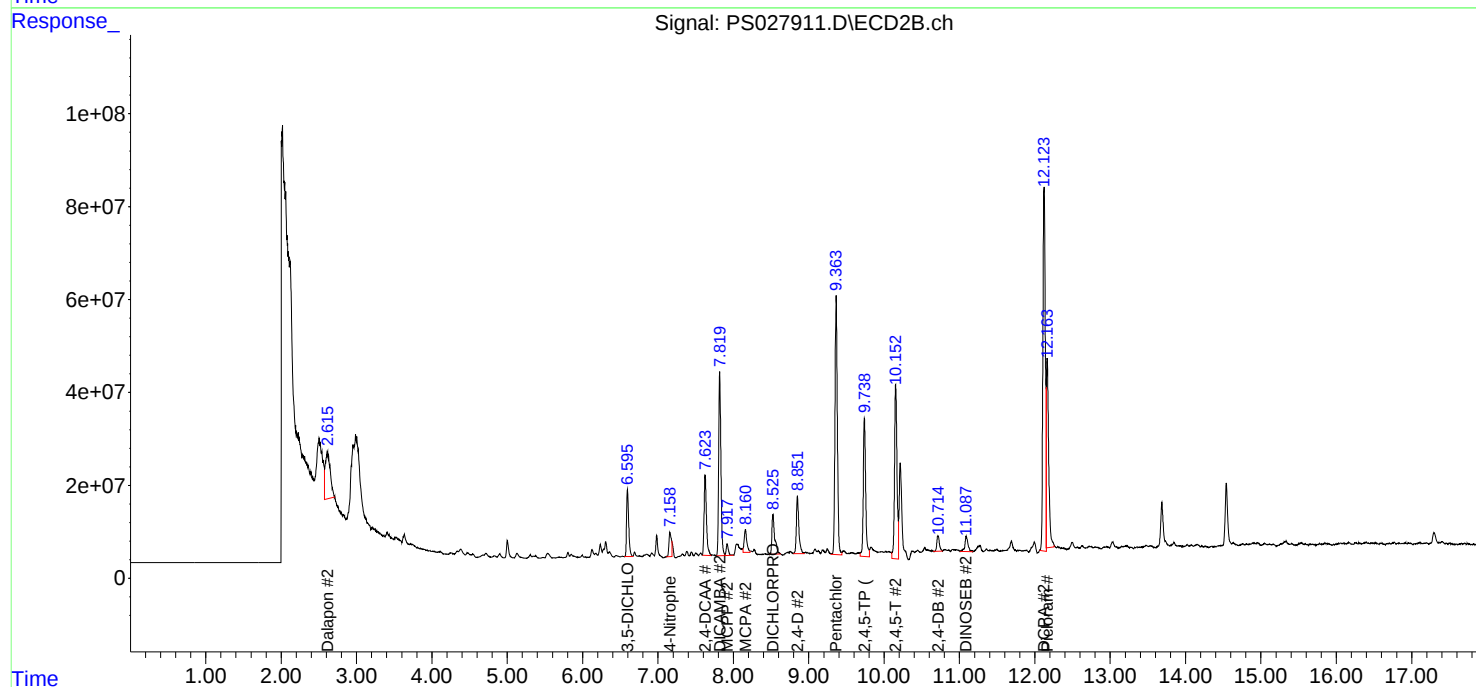
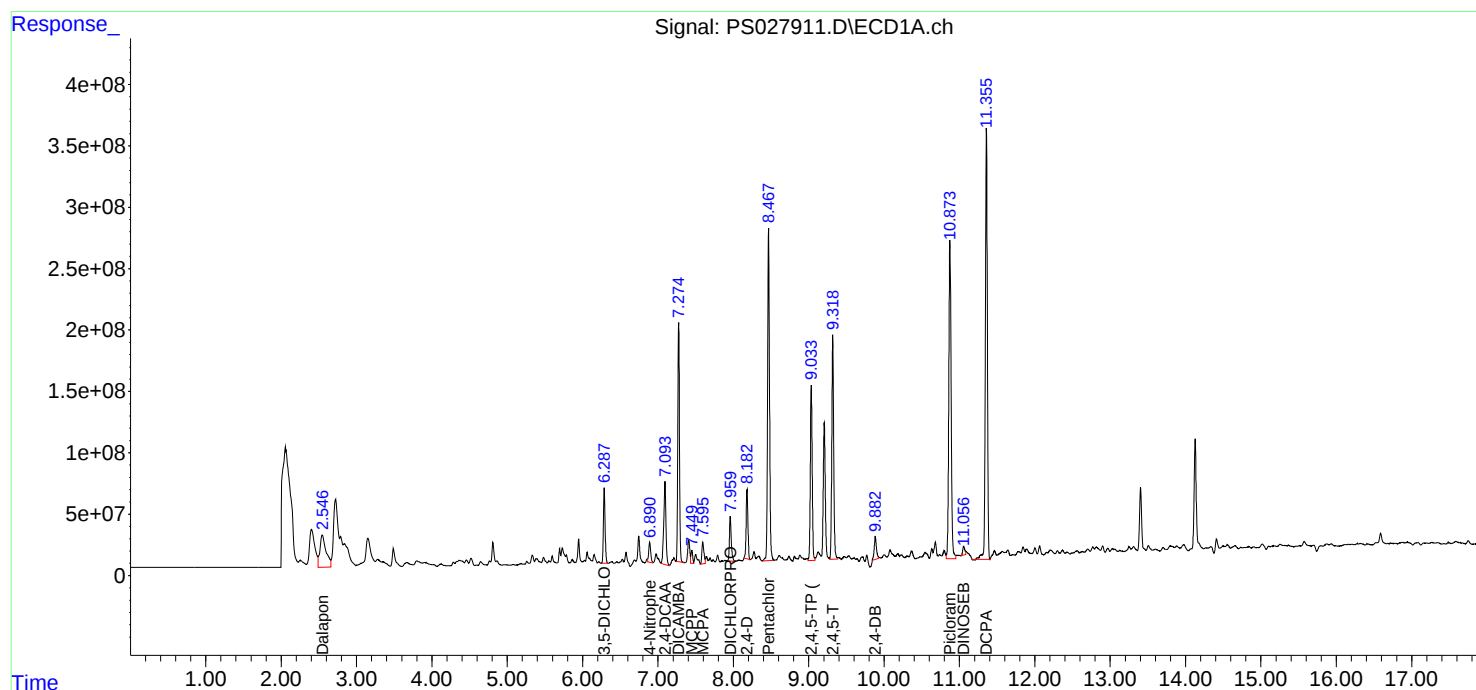
APPROVED

Reviewed By :Abdul Mirza 10/14/2024

Supervised By :Ankita Jodhani 10/14/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Oct 14 03:03:51 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS100724.M
Quant Title : 8080.M
QLast Update : Mon Oct 07 13:46:03 2024
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:

PS100724

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS027855.D	2,4-D	Abdul	10/8/2024 8:25:23 AM	Ankita	10/8/2024 9:52:08	Peak Integrated by Software
HSTDICC200	PS027855.D	Dalapon	Abdul	10/8/2024 8:25:23 AM	Ankita	10/8/2024 9:52:08	Peak Integrated by Software
HSTDICC1000	PS027858.D	2,4-DCAA	Abdul	10/8/2024 8:25:27 AM	Ankita	10/8/2024 9:52:10	Peak Integrated by Software
HSTDICC1000	PS027858.D	MCPP	Abdul	10/8/2024 8:25:27 AM	Ankita	10/8/2024 9:52:10	Peak Integrated by Software
HSTDCCC750	PS027867.D	2,4-DCAA #2	Abdul	10/8/2024 8:25:38 AM	Ankita	10/8/2024 9:52:17	Peak Integrated by Software
HSTDCCC750	PS027867.D	Dalapon #2	Abdul	10/8/2024 8:25:38 AM	Ankita	10/8/2024 9:52:17	Peak Integrated by Software
HSTDCCC750	PS027872.D	2,4-DCAA #2	Abdul	10/8/2024 8:25:57 AM	Ankita	10/8/2024 9:52:23	Peak Integrated by Software

Manual Integration Report

Sequence:	PS101124	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS027905.D	2,4-DCAA #2	Abdul	10/14/2024 8:40:04 AM	Ankita	10/14/2024 9:20:35	Peak Integrated by Software
HSTDCCC750	PS027905.D	DCCA #2	Abdul	10/14/2024 8:40:04 AM	Ankita	10/14/2024 9:20:35	Peak Integrated by Software
PB164060BL	PS027906.D	2,4-DCAA	Abdul	10/14/2024 8:40:07 AM	Ankita	10/14/2024 9:20:36	Peak Integrated by Software
P4258-03	PS027908.D	2,4-DCAA	Abdul	10/14/2024 8:40:10 AM	Ankita	10/14/2024 9:20:38	Peak Integrated by Software
P4258-03	PS027908.D	2,4-DCAA #2	Abdul	10/14/2024 8:40:10 AM	Ankita	10/14/2024 9:20:38	Peak Integrated by Software
P4385-02MS	PS027910.D	2,4-DCAA	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	2,4-DCAA #2	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	4-Nitrophenol	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	4-Nitrophenol #2	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	Dalapon #2	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	DCCA	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MS	PS027910.D	DINOSEB	Abdul	10/14/2024 4:25:48 PM	Ankita	10/14/2024 4:27:02	Peak Integrated by Software
P4385-02MSD	PS027911.D	2,4-DB	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software

Manual Integration Report

Sequence:	PS101124	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P4385-02MSD	PS027911.D	2,4-DCAA	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	2,4-DCAA #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	4-Nitrophenol	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	4-Nitrophenol #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	Dalapon #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	DCEPA #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	DINOSEB	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	MCPA #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
P4385-02MSD	PS027911.D	Picloram #2	Abdul	10/14/2024 4:25:50 PM	Ankita	10/14/2024 4:27:04	Peak Integrated by Software
HSTDCCC750	PS027916.D	2,4-DCAA #2	Abdul	10/14/2024 8:40:49 AM	Ankita	10/14/2024 9:20:47	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS100724

Review By	Abdul	Review On	10/8/2024 8:26:19 AM
Supervise By	Ankita	Supervise On	10/8/2024 9:52:35 AM
SubDirectory	PS100724	HP Acquire Method	HP Processing Method ps100724 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS027853.D	07 Oct 2024 09:50	AR\AJ	Ok
2	I.BLK	PS027854.D	07 Oct 2024 10:14	AR\AJ	Ok
3	HSTDICC200	PS027855.D	07 Oct 2024 11:12	AR\AJ	Ok,M
4	HSTDICC500	PS027856.D	07 Oct 2024 11:36	AR\AJ	Ok
5	HSTDICC750	PS027857.D	07 Oct 2024 12:00	AR\AJ	Ok
6	HSTDICC1000	PS027858.D	07 Oct 2024 12:23	AR\AJ	Ok,M
7	HSTDICC1500	PS027859.D	07 Oct 2024 12:47	AR\AJ	Ok
8	HSTDICV750	PS027860.D	07 Oct 2024 13:11	AR\AJ	Ok
9	I.BLK	PS027861.D	07 Oct 2024 13:38	AR\AJ	Ok
10	HSTDCCC750	PS027862.D	07 Oct 2024 14:02	AR\AJ	Ok
11	P4232-01RE	PS027863.D	07 Oct 2024 14:26	AR\AJ	Confirms
12	PB163901BL	PS027864.D	07 Oct 2024 14:50	AR\AJ	Ok
13	PB163901BS	PS027865.D	07 Oct 2024 15:48	AR\AJ	Ok,M
14	I.BLK	PS027866.D	07 Oct 2024 16:12	AR\AJ	Ok
15	HSTDCCC750	PS027867.D	07 Oct 2024 16:35	AR\AJ	Ok,M
16	PB163901BSD	PS027868.D	07 Oct 2024 16:59	AR\AJ	Ok,M
17	P4274-01	PS027869.D	07 Oct 2024 17:23	AR\AJ	Ok,M
18	P4285-03	PS027870.D	07 Oct 2024 17:47	AR\AJ	Ok,M
19	I.BLK	PS027871.D	07 Oct 2024 18:11	AR\AJ	Ok
20	HSTDCCC750	PS027872.D	07 Oct 2024 18:35	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS101124

Review By	Abdul	Review On	10/14/2024 8:41:15 AM
Supervise By	Ankita	Supervise On	10/14/2024 9:21:00 AM
SubDirectory	PS101124	HP Acquire Method	HP Processing Method ps100724 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC Internal Standard/PEM	PP23462		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	PP23469		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PS027903.D	11 Oct 2024 09:49	AR\AJ	Ok
2	I.BLK	PS027904.D	11 Oct 2024 10:13	AR\AJ	Ok
3	HSTDCCC750	PS027905.D	11 Oct 2024 10:37	AR\AJ	Ok,M
4	PB164060BL	PS027906.D	11 Oct 2024 17:39	AR\AJ	Ok,M
5	PB164060BS	PS027907.D	11 Oct 2024 18:03	AR\AJ	Ok
6	P4258-03	PS027908.D	11 Oct 2024 18:27	AR\AJ	Ok,M
7	P4385-02	PS027909.D	11 Oct 2024 18:51	AR\AJ	Ok,M
8	P4385-02MS	PS027910.D	11 Oct 2024 19:15	AR\AJ	Ok,M
9	P4385-02MSD	PS027911.D	11 Oct 2024 19:39	AR\AJ	Ok,M
10	P4385-04	PS027912.D	11 Oct 2024 20:02	AR\AJ	Ok,M
11	P4385-06	PS027913.D	11 Oct 2024 20:26	AR\AJ	Ok,M
12	P4385-08	PS027914.D	11 Oct 2024 20:50	AR\AJ	Ok,M
13	I.BLK	PS027915.D	11 Oct 2024 21:14	AR\AJ	Ok
14	HSTDCCC750	PS027916.D	11 Oct 2024 21:38	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS100724

Review By	Abdul	Review On	10/8/2024 8:26:19 AM
Supervise By	Ankita	Supervise On	10/8/2024 9:52:35 AM
SubDirectory	PS100724	HP Acquire Method	HP Processing Method ps100724 8151

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469
CCC	PP23462
Internal Standard/PEM	
ICV/I.BLK	PP23469
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS027853.D	07 Oct 2024 09:50		AR\AJ	Ok
2	I.BLK	I.BLK	PS027854.D	07 Oct 2024 10:14		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS027855.D	07 Oct 2024 11:12		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS027856.D	07 Oct 2024 11:36		AR\AJ	Ok
5	HSTDICC750	HSTDICC750	PS027857.D	07 Oct 2024 12:00		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS027858.D	07 Oct 2024 12:23		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS027859.D	07 Oct 2024 12:47		AR\AJ	Ok
8	HSTDICV750	ICVPS100724	PS027860.D	07 Oct 2024 13:11		AR\AJ	Ok
9	I.BLK	I.BLK	PS027861.D	07 Oct 2024 13:38		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS027862.D	07 Oct 2024 14:02		AR\AJ	Ok
11	P4232-01RE	TP-RRE	PS027863.D	07 Oct 2024 14:26	2,4-DCAA low 2nd col	AR\AJ	Confirms
12	PB163901BL	PB163901BL	PS027864.D	07 Oct 2024 14:50		AR\AJ	Ok
13	PB163901BS	PB163901BS	PS027865.D	07 Oct 2024 15:48		AR\AJ	Ok,M
14	I.BLK	I.BLK	PS027866.D	07 Oct 2024 16:12		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS027867.D	07 Oct 2024 16:35		AR\AJ	Ok,M
16	PB163901BSD	PB163901BSD	PS027868.D	07 Oct 2024 16:59		AR\AJ	Ok,M
17	P4274-01	222254	PS027869.D	07 Oct 2024 17:23		AR\AJ	Ok,M
18	P4285-03	WATER-TOTES	PS027870.D	07 Oct 2024 17:47		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS100724

Review By	Abdul	Review On	10/8/2024 8:26:19 AM
Supervise By	Ankita	Supervise On	10/8/2024 9:52:35 AM
SubDirectory	PS100724	HP Acquire Method	HP Processing Method ps100724 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	I.BLK	I.BLK	PS027871.D	07 Oct 2024 18:11		AR\AJ	Ok
20	HSTDCCC750	HSTDCCC750	PS027872.D	07 Oct 2024 18:35		AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS101124

Review By	Abdul	Review On	10/14/2024 8:41:15 AM
Supervise By	Ankita	Supervise On	10/14/2024 9:21:00 AM
SubDirectory	PS101124	HP Acquire Method	HP Processing Method ps100724 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM			
ICV/I.BLK	PP23469		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PS027903.D	11 Oct 2024 09:49		AR\AJ	Ok
2	I.BLK	I.BLK	PS027904.D	11 Oct 2024 10:13		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS027905.D	11 Oct 2024 10:37		AR\AJ	Ok,M
4	PB164060BL	PB164060BL	PS027906.D	11 Oct 2024 17:39		AR\AJ	Ok,M
5	PB164060BS	PB164060BS	PS027907.D	11 Oct 2024 18:03		AR\AJ	Ok
6	P4258-03	Chamberlain Ave	PS027908.D	11 Oct 2024 18:27		AR\AJ	Ok,M
7	P4385-02	SP-1	PS027909.D	11 Oct 2024 18:51		AR\AJ	Ok,M
8	P4385-02MS	SP-1MS	PS027910.D	11 Oct 2024 19:15	Some compound recovery fail	AR\AJ	Ok,M
9	P4385-02MSD	SP-1MSD	PS027911.D	11 Oct 2024 19:39	Some compound recovery fail , RPD 2,4-DB is high	AR\AJ	Ok,M
10	P4385-04	SP-2	PS027912.D	11 Oct 2024 20:02		AR\AJ	Ok,M
11	P4385-06	SP-3	PS027913.D	11 Oct 2024 20:26		AR\AJ	Ok,M
12	P4385-08	SP-4	PS027914.D	11 Oct 2024 20:50		AR\AJ	Ok,M
13	I.BLK	I.BLK	PS027915.D	11 Oct 2024 21:14		AR\AJ	Ok
14	HSTDCCC750	HSTDCCC750	PS027916.D	11 Oct 2024 21:38		AR\AJ	Ok,M

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 10/2/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 16:35
In Date: 10/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:14
Out Date: 10/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB132680

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
P4242-01	TP-Q	1	1.15	8.81	9.96	9.47	94.4	
P4242-02	TP-Q-EPH	2	1.19	8.66	9.85	9.09	91.2	
P4242-03	TP-Q-VOC	3	1.17	8.58	9.75	8.97	90.9	
P4249-01	RV-25 (4-4.5)	4	1.18	8.54	9.72	9.4	96.3	
P4249-02	RV-26 (2-2.5)	5	1.14	8.84	9.98	9.08	89.8	
P4249-03	RV-27 (2-2.5)	6	1.15	8.35	9.5	8.72	90.7	
P4249-04	RV-28 (2-2.5)	7	1.18	8.64	9.82	8.58	85.6	
P4254-01	MH-147-SLUDGE	8	1.13	8.60	9.73	4.39	37.9	sludge sample
P4254-02	MH-147-SLUDGE-VOC	9	1.15	8.81	9.96	4.56	38.7	sludge sample
P4254-03	MH-147-SLUDGE-E2	10	1.14	8.82	9.96	4.13	33.9	sludge sample
P4255-01	OR-03-100124	11	1.14	8.43	9.57	8.57	88.1	
P4255-02	OR-03-100124-E2	12	1.15	8.71	9.86	8.97	89.8	
P4256-01	585	13	1.19	8.49	9.68	7.19	70.7	
P4256-02	31480	14	1.00	1.00	2.00	2.00	100.0	debris
P4257-01	VNJ-240	15	1.12	8.50	9.62	9.03	93.1	
P4257-02	VNJ-240	16	1.14	8.80	9.94	9.18	91.4	
P4258-01	Chamberlain Ave	17	1.17	8.57	9.74	8.54	86.0	
P4258-03	Chamberlain Ave	18	1.17	8.57	9.74	8.54	86.0	

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

WORKLIST(Hardcopy Internal Chain)

132680

WorkList Name : %100124 WorkList ID : 183974 Department : Wet-Chemistry Date : 10-01-2024 08:04:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4242-01	TP-Q	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4242-02	TP-Q-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4242-03	TP-Q-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4249-01	RV-25(4-4.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-02	RV-26(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-03	RV-27(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4249-04	RV-28(2-2.5)	Solid	Percent Solids	Cool 4 deg C	MATR02	J51	10/01/2024	Chemtech -SO
P4254-01	MH-147-SLUDGE	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4254-02	MH-147-SLUDGE-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4254-03	MH-147-SLUDGE-E2	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4255-01	OR-03-100124	Solid	Percent Solids	Cool 4 deg C	PSEG05	J51	10/01/2024	Chemtech -SO
P4255-02	OR-03-100124-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	J51	10/01/2024	Chemtech -SO
P4256-01	585	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4256-02	31480	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4257-01	VNJ-240	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4257-02	VNJ-240	Solid	Percent Solids	Cool 4 deg C	PSEG03	J51	10/01/2024	Chemtech -SO
P4258-01	Chamberlain Ave	Solid	Percent Solids	Cool 4 deg C	ROMA02	H11	10/01/2024	Chemtech -SO
P4258-03	Chamberlain Ave	Solid	Percent Solids	Cool 4 deg C	ROMA02	H51	10/01/2024	Chemtech -SO

Date/Time 10/01/24 15:25

Raw Sample Received by: [Signature]

Raw Sample Relinquished by:

Date/Time 10/01/24

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

17600

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#: E3574

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,4,7

Extraction Start Date : 10/11/2024

Extraction Start Time : 08:31

Extraction End Date : 10/11/2024

Extraction End Time : 16:30

Concentration By: EH

Supervisor By : rajesh

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	PP23699
Surrogate	1.0ML	5000 PPB	PP23665
LOD	0.2ML	5000 PPB	PP23699
LOD	0.3ML	5000 PPB	PP23699
LOQ	0.4ML	5000 PPB	PP23699

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Acidified Na2SO4	N/A	EP2503
Sand	N/A	E2865
HCL	N/A	M5892
DI WATER	N/A	N/A
37% KOH	N/A	EP2520
Methylene Chloride	N/A	E3803
1:3 SULPHURIC ACID	N/A	EP2528
Ether	N/A	E3370
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14138
Diazomethane	N/A	EP2529
Hexane	N/A	E3796
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 BTS721.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NE VAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/11/24	RP (Ext. 204)	RP (Ext. 204)
16:35	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 10/09/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164060BL	HBLK060	Herbicide	30.01	N/A	ritesh	Evelyn	10			U1-1
PB164060BS	HLCS060	Herbicide	30.02	N/A	ritesh	Evelyn	10			2
P4258-03	CHAMBERLAIN AVE	Herbicide	30.04	N/A	ritesh	Evelyn	10	A		3
P4368-01	LOD-MDL-SOIL-01-QT4-2 024 0.2 mL	Herbicide	30.02	N/A	ritesh	Evelyn	10			4
P4368-02	LOQ-SOIL-02-QT4-2024 0.4 mL	Herbicide	30.01	N/A	ritesh	Evelyn	10			5
P4385-02	SP-1	Herbicide	30.06	N/A	ritesh	Evelyn	10	B		6
P4385-02MS	SP-1MS	Herbicide	30.08	N/A	ritesh	Evelyn	10	B		U7-1
P4385-02MS D	SP-1MSD	Herbicide	30.05	N/A	ritesh	Evelyn	10	B		2
P4385-04	SP-2	Herbicide	30.04	N/A	ritesh	Evelyn	10	B		3
P4385-06	SP-3	Herbicide	30.02	N/A	ritesh	Evelyn	10	B		4
P4385-08	SP-4	Herbicide	30.09	N/A	ritesh	Evelyn	10	B		5
P4385-10	SP-5	Herbicide	30.05	N/A	ritesh	Evelyn	10	B		6
P4385-12	SP-6	Herbicide	30.03	N/A	ritesh	Evelyn	10	B		U5-1
P4385-14	SP-7	Herbicide	30.08	N/A	ritesh	Evelyn	10	B		2
P4385-16	SP-8	Herbicide	30.07	N/A	ritesh	Evelyn	10	B		3
P4385-18	SP-9	Herbicide	30.03	N/A	ritesh	Evelyn	10	B		4
P4385-20	SP-10	Herbicide	30.06	N/A	ritesh	Evelyn	10	B		5
LOQ 0.3 mL			30.00				10			6

* Extracts relinquished on the same date as received.

10/11/24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4258H WorkList ID : 184331 Department : Extraction Date : 10-11-2024 08:06:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4258-03	Chamberlain Ave	Solid	Herbicide	Cool 4 deg C	ROMA02	K21	10/01/2024	8151A
P4368-01	LOD-MDL-SOIL-01-QT4-2024	Solid	Herbicide	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8151A
P4368-02	LOQ-SOIL-02-QT4-2024	Solid	Herbicide	Cool 4 deg C	CHEM02	QA Of	10/09/2024	8151A
P4385-02	SP-1	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-04	SP-2	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-06	SP-3	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-08	SP-4	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-10	SP-5	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-12	SP-6	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-14	SP-7	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-16	SP-8	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-18	SP-9	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A
P4385-20	SP-10	Solid	Herbicide	Cool 4 deg C	SCHE03	K51	10/10/2024	8151A

Date/Time 10/11/24 8:25
 Raw Sample Received by: RT (Det Lab)
 Raw Sample Relinquished by: JD (Sm)

Date/Time 10/11/24 8:25
 Raw Sample Received by: JD (Sm)
 Raw Sample Relinquished by: RT (Det Lab)

Prep Standard - Chemical Standard Summary

Order ID : P4258

Test : Herbicide

Prepbatch ID : PB164060,

Sequence ID/Qc Batch ID: PS101124,

Standard ID :

EP2503,EP2538,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23665,PP23699,

Chemical ID :

E2865,E3370,E3551,E3754,E3788,E3793,E3794,M5037,M5892,P11179,P12618,P12661,P12707,P12782,P12783,P13174,P13175,P13176,P13177,P23457,P8828,P8901,P9004,



<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>
601	Acidified Sodium Sulphate 2	EP2503	07/01/2024	12/15/2024	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 07/01/2024
<u>FROM</u>	100.00000ml of E3370 + 150.00000ml of M5037 + 3000.00000ml of E3551 = Final Quantity: 3000.000 gram							

<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>
3868	METHELENE CHLORIDE+ACETONE	EP2538	09/17/2024	03/11/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 09/17/2024
<u>FROM</u> 8000.00000ml of E3793 + 8000.00000ml of E3794 = Final Quantity: 1600.000 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>
1321	2/200 PPM Herb Mega Mix	PP23457	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani 06/18/2024

FROM 0.20000ml of P8828 + 1.00000ml of P11179 + 1.00000ml of P12618 + 1.00000ml of P12661 + 1.00000ml of P8901 + 95.80000ml of E3754 = Final Quantity: 100.000 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>
1452	1500 PPB HERB MIX STD	PP23458	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani 06/18/2024

FROM 0.25000ml of E3754 + 75.00000ml of PP23457 = 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	PP23459	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23457 = 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	PP23460	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23459 = 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>
1456	200 PPB Herb MIX STD	PP23461	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.80000ml of E3754 + 0.20000ml of PP23459 = 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	PP23462	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23459 = 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>
1851	2/200 PPM Herb Mega Mix 2nd Source	PP23467	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of P9004 + 1.00000ml of P12707 + 48.50000ml of E3754 = 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>
1854	1000 PPB HERB MIX ICV STD	PP23468	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.50000ml of E3754 + 0.50000ml of PP23467 = 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	PP23469	06/17/2024	12/04/2024	Abdul Mirza	None	None	Ankita Jodhani
								06/18/2024

FROM 0.25000ml of E3754 + 0.75000ml of PP23468 = 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>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23665	09/13/2024	02/08/2025	Abdul Mirza	None	None	Ankita Jodhani
								09/16/2024

FROM 1.25000ml of P13174 + 1.25000ml of P13175 + 1.25000ml of P13176 + 1.25000ml of P13177 + 195.00000ml of E3788 = Final Quantity: 200.000 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>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23699	09/24/2024	02/13/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024
<u>FROM</u>	1.25000ml of P12782 + 1.25000ml of P12783 + 47.50000ml of E3788 = Final Quantity: 50.000 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	12/31/2024	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	01/17/2025	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	01/03/2025	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-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24C1862008	12/04/2024	06/04/2024 / Rajesh	05/31/2024 / Rajesh	E3754

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)	23H1462005	04/01/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3793

CHEMICAL RECEIPT LOG BOOK

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)	24G2362009	03/17/2025	09/17/2024 / Rajesh	09/03/2024 / Rajesh	E3794

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)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

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)	240415	11/06/2024	05/16/2024 / Al-Terek	05/07/2024 / Al-Terek	M5892

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	12/17/2024	06/17/2024 / Abdul	11/01/2021 / Abdul	P11179

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	12/17/2024	06/17/2024 / Abdul	07/03/2023 / Abdul	P12618

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	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

CHEMICAL RECEIPT LOG BOOK

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	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

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	12/17/2024	06/17/2024 / Abdul	08/09/2023 / Abdul	P12707

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	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

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	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12782

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	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

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	0006750243	03/24/2025	09/24/2024 / Abdul	09/11/2023 / Abdul	P12783

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13174

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13175

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0201161	02/08/2025	08/08/2024 / Abdul	01/12/2024 / Abdul	P13177

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	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8828

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	A0152499	12/17/2024	06/17/2024 / Abdul	08/16/2019 / Stephen	P8901

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	A0152705	12/17/2024	06/17/2024 / Abdul	10/11/2019 / Stephen	P9004

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

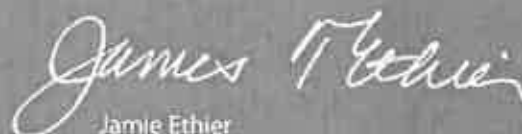
Certificate of Analysis

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,

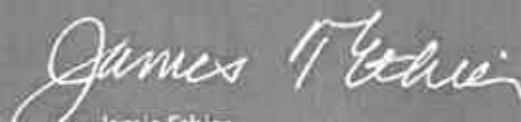
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation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



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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

Hexanes (95% n-hexane)
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
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 Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H ₂ SO ₄	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd. by R1 on 5/31/24

E3754

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone

BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

Avantor™



Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.6	< 0.1
Water (H ₂ O)	≤ 0.5 %	0.3 %
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: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

Acetone
CMOS

avantor™



Material No.: 9005-05
Batch No.: 24E0761004
Manufactured Date: 2024-05-02
Retest Date: 2029-05-01
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titration Acid (μeq/g)	≤ 0.3	0.1
Titration Base (μeq/g)	≤ 0.5	0.1
Water (H ₂ O)	≤ 0.5 %	0.1 %
Solubility in H ₂ O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities – Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities – Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities – Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities – Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd. by RP on 9/11/24

E3793

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Nickel (Ni)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities – Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities – Silver (Ag)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Strontium (Sr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 50.0 ppb	< 5.0 ppb
Trace Impurities – Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	7.9 ppb
Trace Impurities – Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater (Rion KS42AF)	≤ 100 par/ml	8 par/ml
Particle Count – 1.0 µm and greater (Rion KS42AF)	≤ 8 par/ml	2 par/ml

>>> Continued on page 3 >>>

Acetone
CMOS



Material No.: 9005-05
Batch No.: 24E0761004

Test	Specification	Result
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For Microelectronic Use
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

Michelle Bales
Sr. Manager, Quality Assurance

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

avantorsm



Material No.: 9673-33

Batch No.: 0000250349

Manufactured Date: 2019/12/17

Retest Date: 2024/12/15

Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H ₂ SO ₄)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO ₂)	<= 2 ppm	< 2
Ammonium (NH ₄)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO ₃)	<= 0.2 ppm	< 0.1
Phosphate (PO ₄)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

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

Avantor Performance Materials, LLC

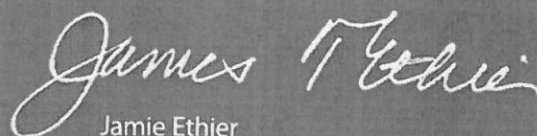
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	≤ 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	≤ 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	≤ 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	≤ 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	≤ 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	≤ 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	≤ 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	≤ 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

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



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

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:

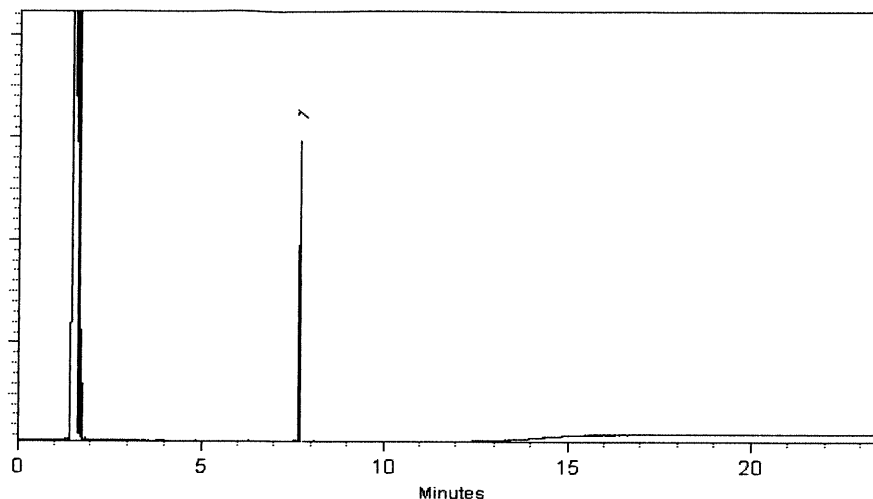
250°C

Det. Temp:

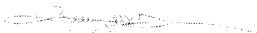
330°C

Det. Type:

FID

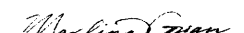


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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



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

www.restek.com

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
Date = 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:

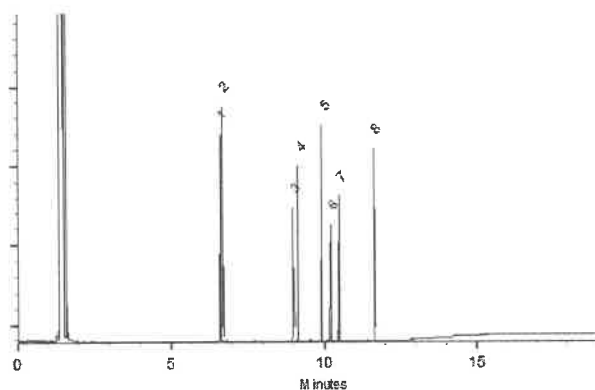
250°C

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



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. : 32055 **Lot No.:** A0199693

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 : July 31, 2030 **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	Dicamba methyl ester	6597-78-0	1813500	99%	202.0 µg/mL	+/- 3.4272
2	Dichlorprop methyl ester	57153-17-0	8578700	98%	201.9 µg/mL	+/- 3.4251
3	2,4-D methyl ester	1928-38-7	10048000	99%	202.0 µg/mL	+/- 3.4272
4	2,4,5-TP (silvex) methyl ester	4841-20-7	504400	99%	202.0 µg/mL	+/- 3.4272
5	2,4,5-T methyl ester	1928-37-6	6875800	98%	201.9 µg/mL	+/- 3.4251
6	Dinoseb methyl ether	6099-79-2	9239100	99%	202.0 µg/mL	+/- 3.4272
7	2,4-DB methyl ester	18625-12-2	6847200	99%	202.0 µg/mL	+/- 3.4272

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

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

P12660
↓
P12664

AJ
07/11/23

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:

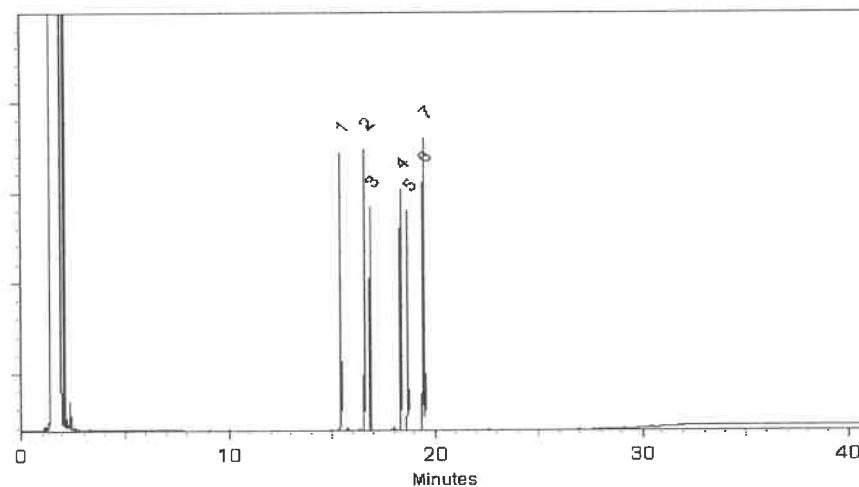
FID

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.

Nick Yaw

Nick Yaw - Operations Tech I

Date Mixed: 07-Jul-2023

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 11-Jul-2023

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

P12706
↓
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.

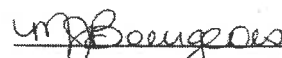
Expiration of Certification:

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

P12766
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P12785
✓
9.11.23
20

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-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	100.1 ± 0.5 µg/mL	050594-66-6	NT02057	
bentazon	100.1 ± 0.5 µg/mL	025057-89-0	RM20289	
chloramben	100.4 ± 0.5 µg/mL	000133-90-4	RM02698	
2,4-D	100.1 ± 0.5 µg/mL	000094-75-7	RM17172	
dalapon	100.4 ± 0.5 µg/mL	000075-99-0	RM21030	
2,4-DB	100.1 ± 0.5 µg/mL	000094-82-6	RM02866	
tetrachloroterephthalic acid	100.3 ± 0.5 µg/mL	002136-79-0	RM13887	
dicamba	100.2 ± 0.5 µg/mL	001918-00-9	RM20089	
3,5-dichlorobenzoic acid	100.0 ± 0.5 µg/mL	000051-36-5	RM02768	
dichlorprop	100.0 ± 0.5 µg/mL	000120-36-5	RM20896	
dinoseb	100.0 ± 0.5 µg/mL	000088-85-7	RM20667	
MCPA	100.4 ± 50 µg/mL	000094-74-6	RM12220	
MCPP (mecoprop)	100.37 ± 50 µg/mL	000093-65-2	RM09273	
4-nitrophenol	100.1 ± 0.5 µg/mL	000100-02-7	RM03752	
pentachlorophenol	100.1 ± 0.5 µg/mL	000087-86-5	RM02474	
picloram	100.4 ± 0.5 µg/mL	001918-02-1	RM20442	
silvex	100.1 ± 0.5 µg/mL	000093-72-1	RM20208	
2,4,5-T	100.4 ± 0.5 µg/mL	000093-76-5	NT01808	

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:

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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

P12766 / (20)
↓
P12785 / 1

9/11/2023



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

P12766
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P12785
✓
9.11.23
20

ISO 17034

Reference Material Certificate
Product Information Sheet

Product Name: Chlorinated Herbicides Standard

Lot Number: 0006750243

Product Number: HBM-8151A-1

Lot Issue Date: 07-Jul-2023

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

Expiration Date: 31-Aug-2025

Component Name	Concentration	Uncertainty	CAS#	Analyte Lot
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bentazon	100.1	± 0.5 µg/mL	025057-89-0	RM20289
chloramben	100.4	± 0.5 µg/mL	000133-90-4	RM02698
2,4-D	100.1	± 0.5 µg/mL	000094-75-7	RM17172
dalapon	100.4	± 0.5 µg/mL	000075-99-0	RM21030
2,4-DB	100.1	± 0.5 µg/mL	000094-82-6	RM02866
tetrachloroterephthalic acid	100.3	± 0.5 µg/mL	002136-79-0	RM13887
dicamba	100.2	± 0.5 µg/mL	001918-00-9	RM20089
3,5-dichlorobenzoic acid	100.0	± 0.5 µg/mL	000051-36-5	RM02768
dichlorprop	100.0	± 0.5 µg/mL	000120-36-5	RM20896
dinoseb	100.0	± 0.5 µg/mL	000088-85-7	RM20667
MCPA	10004	± 50 µg/mL	000094-74-6	RM12220
MCPP (mecoprop)	10037	± 50 µg/mL	000093-65-2	RM09273
4-nitrophenol	100.1	± 0.5 µg/mL	000100-02-7	RM03752
pentachlorophenol	100.1	± 0.5 µg/mL	000087-86-5	RM02474
picloram	100.4	± 0.5 µg/mL	001918-02-1	RM20442
silvex	100.1	± 0.5 µg/mL	000093-72-1	RM20208
2,4,5-T	100.4	± 0.5 µg/mL	000093-76-5	NT01808

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.

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**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.

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

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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

P12766 / (20)
↓
P12785 /
✓
9/11/2023



ISO 17034
Cert No. AR-1936

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Page: 2 of 2

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

ISO 17025
Cert No. AT-1937



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. : 32049 **Lot No.:** A0201161
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13161
↓
P13180
/ 01/15/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.



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

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chromatographic plus



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Catalog No. : 32049 **Lot No.:** A0201161
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13161
↓
P13180
/ 20
✓ Dave
01/15/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

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Catalog No. : 32049 **Lot No.:** A0201161
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13161
↓
P13180
/ 20
✓ Dave
01/15/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.



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Bellefonte, PA 16823-8812
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chromatographic plus



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Catalog No. : 32049 **Lot No.:** A0201161
Description : 2,4-Dichlorophenylacetic Acid Standard
2, 4-Dichlorophenyl Acetic Acid 200µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13161
↓
P13180
/ 20
✓ Dave
01/15/2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-dichlorophenylacetic acid	19719-28-9	STBK3827	99%	202.0 µg/mL	+/- 2.7426

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

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Specific Reference Material Notes:

Failure to derivatize this standard will lead to incorrect quantitative results.



CERTIFIED REFERENCE MATERIAL

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

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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:

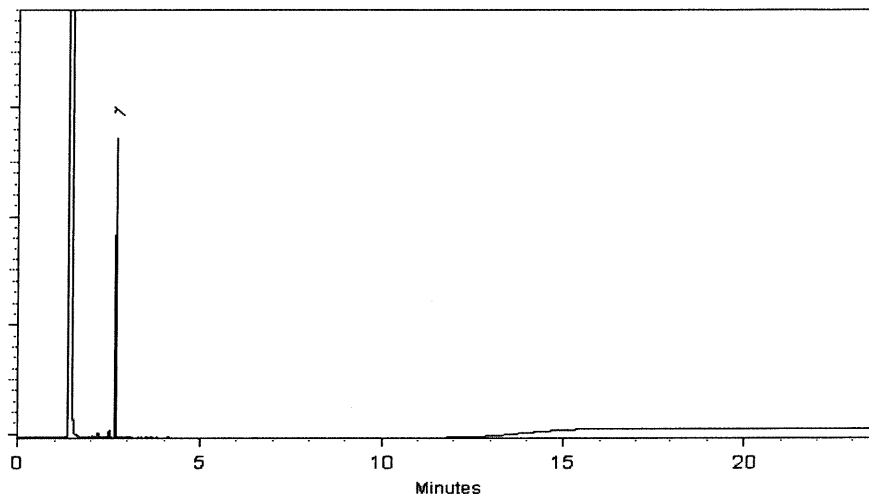
250°C

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



CERTIFIED REFERENCE MATERIAL

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

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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.

Received by
SG on 9/10/19
P8892
P8896

Catalog No. : 32059 **Lot No.:** A0152499
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 : September 30, 2026 **Storage:** 10°C or colder
Handling: This product is photosensitive.

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)							
1	MCPP (Mecoprop) methyl ester		20,004.0 μg/mL	+/-	185.1208	μg/mL	Gravimetric				
	CAS #	23844-56-6 (Lot 8685200)						+/-	685.5986	μg/mL	Unstressed
	Purity	99%						+/-	685.5986	μg/mL	Stressed
2	MCPA methyl ester		20,012.0 μg/mL	+/-	185.1948	μg/mL	Gravimetric				
	CAS #	2436-73-9 (Lot 7964600)						+/-	685.8728	μg/mL	Unstressed
	Purity	99%						+/-	685.8728	μg/mL	Stressed
Solvent:	Hexane										
	CAS #	110-54-3									
	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:

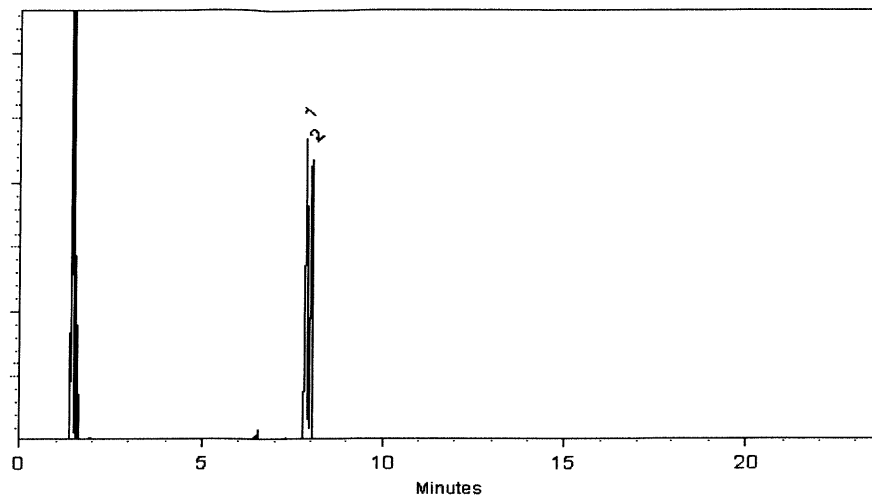
250°C

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: 03-Sep-2019

Balance: 1128360905

Jennifer Pollino - Operations Tech-ARM QC

Date Passed: 05-Sep-2019

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

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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.: A0152705
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 : June 30, 2026 Storage: 10°C or colder
Handling: This product is photosensitive.

Received by
SG on 10/11/19
P8999
-
P9008

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2,4-Dichlorophenyl acetic acid methyl ester CAS # 55954-23-9 (Lot CSC42194-01) Purity 99%	200.0 µg/mL	+/- 1.4182 µg/mL Gravimetric +/- 6.7507 µg/mL Unstressed +/- 6.7507 µg/mL Stressed

Solvent: Hexane
CAS # 110-54-3
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:

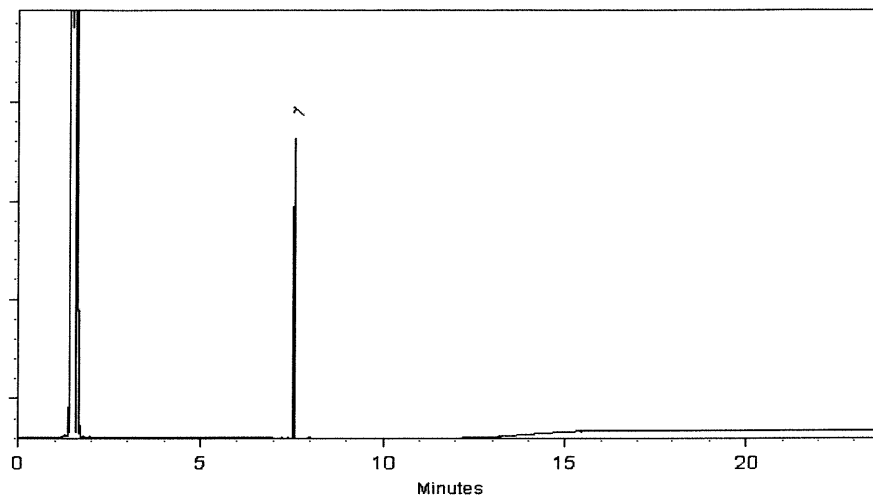
250°C

Det. Temp:

330°C

Det. Type:

FID



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Cydnei L. Crust
Cydnei L. Crust - Mix Technician

Date Mixed: 09-Sep-2019

Balance: B707717271

Fang-Yun Lo
Fang-Yun Lo - GC Analyst

Date Passed: 11-Sep-2019

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



SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P4258/P4261
QUOTE NO.
COC Number 2041986

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Roman E&G
ADDRESS: 14 Ogden St
CITY: Newark STATE: NJ ZIP: 07104
ATTENTION: Sonny Puzzo
PHONE: 973-482-1123 FAX: 973-482-7154

CLIENT PROJECT INFORMATION

PROJECT NAME: Perth Amboy Undermain
PROJECT NO.: 24-651 LOCATION: Perth Amboy
PROJECT MANAGER: Mark Mathiciss
e-mail: engineer@romaneq.com
PHONE: 973-482-1123 FAX: 973-482-7154

CLIENT BILLING INFORMATION

BILL TO: Roman E&G PO#: 24-651
ADDRESS: 14 Ogden St
CITY: Newark STATE: NJ ZIP: 07104
ATTENTION: Frank PHONE: 973-482-1123

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 6 10/17 DAYS*
HARDCOPY (DATA PACKAGE): 6 10/17 DAYS*
EDD: 6 10/17 DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

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 NJ-DEP-SRS

PRESERVATIVES

COMMENTS

CHEMTECH 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.	<u>Chamberlin Ave</u> ↓	<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
2.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
3.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
4.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
5.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
6.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
7.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
8.		<u>S</u>		<u>X</u>	<u>10/1</u>	<u>11:45</u>	<u>1</u>										
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Sonny Puzzo</u>	DATE/TIME: <u>10/1 12:54</u>	RECEIVED BY: <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>22.1 °C</u>
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: <u>If Air # 1</u>
RELINQUISHED BY SAMPLER: 3.	DATE/TIME:	RECEIVED BY:	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete
☐ YES ☐ NO

Test Group	Analyses	Matrix	Method
METALS-TAL	Mercury	Water	7470A
	TAL ICP Metals	Water	6010D
RCRA CHARACTERIS	Flash Point	Water	1010B
	pH	Water	9040C
	Reactive Cyanide	Water	9012B
	Reactive Sulfide	Water	9034
TCLP METALS	TCLP Extraction	Water	1311
	TCLP ICP Metals	Water	6010D
	TCLP Mercury	Water	7470A
GROWS Concrete	Ammonia	Solid	SM4500-NH3
	Chemical Oxygen Demar	Solid	SM5220 D
	Oil & Grease	Solid	1664A
	Paint Filter Test	Solid	9095B
	PCBs	Solid	8082A
	Percent Solids	Solid	Chemtech -SOP
	pH	Solid	9045D
	Total Solids	Solid	SM2540 B
	Total Volatile Solids	Solid	160.4
GROWS Concrete AS	ASTM Leachate/ Ammon	Solid	SM4500-NH3
	ASTM Leachate/COD	Solid	SM5220 D
	ASTM Leachate Extracti	Solid	ASTM
	ASTM Leachate/Oil & Gr	Solid	1664A
	ASTM Leachate/Total Sol	Solid	SM2540 B
GROWS Concrete-Wa	Corrosivity	Solid	9045D
	Ignitability	Solid	1030
	Reactive Cyanide	Solid	9012B
	Reactive Sulfide	Solid	9034
	TCLP Semivolatiles	Solid	8270E
	TCLP Extraction	Solid	1311
	TCLP Herbicides	Solid	8151A
	TCLP Mercury	Solid	7470A
	TCLP Metals + Cu+Ni+Zr	Solid	6010D
	TCLP Pesticides	Solid	8081B
	TCLP Volatiles	Solid	8260C
	TCLP ZHE Extraction	Solid	1311 ZHE
GROWS Soil	PCBs	Solid	8082A
	Percent Solids	Solid	Chemtech -SOP
	pH	Solid	9045D
	TCL Volatiles+10	Solid	8260D
GROWS Soil-Waste C	Corrosivity	Solid	9045D
	Ignitability	Solid	1030
	Reactive Cyanide	Solid	9012B
	Reactive Sulfide	Solid	9034
	TCLP Semivolatiles	Solid	8270E
	TCLP Extraction	Solid	1311
	TCLP Herbicides	Solid	8151A
	TCLP Mercury	Solid	7470A
	TCLP Metals + Cu+Ni+Zr	Solid	6010D
	TCLP Pesticides	Solid	8081B
	TCLP Volatiles	Solid	8260D
	TCLP ZHE Extraction	Solid	1311 ZHE

Grows Concrete

Grows Concrete ASTM

Grows Soil

Grows Soil-Waste Class

Seperate

Seperate

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Wednesday, October 2, 2024 11:07 AM
Subject: Re: Project: Perth Amboy Query

Good Morning Sonny,

I am reaching out to inform you that samples received for project were out of temperature range of -6.

It's a standard procedure to inform client, for documentation purposes.

Regards,



Kiran Saleem
Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sonny Puzzo <spuzzo@romaneg.com>
Sent: Tuesday, October 1, 2024 3:16 PM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Subject: Re: Project: Perth Amboy Query

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Kiran,

Should be 24-651.

Thank you.

All the Best,

Sonny Puzzo
Project Coordinator

14 Ogden Street
Newark, NJ 07104
Office: (973) 482-1123 Ext:21
Fax: (973) 482-7154
Cell: (973) 803-6113

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Tuesday, October 1, 2024 3:15 PM
To: Sonny Puzzo <spuzzo@romaneg.com>
Subject: Re: Project: Perth Amboy Query

Also, can you please clarify the PO# under 'Client Billing Information', I can't make out what the first digit is.

Regards,



Kiran Saleem
Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Tuesday, October 1, 2024 2:35 PM
To: Sonny Puzzo <spuzzo@romaneg.com>
Subject: Re: Project: Perth Amboy Query

Thank you Sonny.

Regards,



Kiran Saleem
Project Manager
An Alliance Technical Group Company
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: Sonny Puzzo <spuzzo@romaneg.com>
Sent: Tuesday, October 1, 2024 2:26 PM
To: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Cc: Jordan Hedvat <Jordan.Hedvat@alliancetg.com>
Subject: Re: Project: Perth Amboy Query

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Good Afternoon Kiran,

Roman would like the results of the test back by 10/7.

Sorry for the confusion... Thank you!

All the Best,

Sonny Puzzo

Project Coordinator

14 Ogden Street
Newark, NJ 07104
Office: (973) 482-1123 Ext:21
Fax: (973) 482-7154
Cell: (973) 803-6113
Veteran-Owned Business (NJ)

From: Kiran Saleem <Kiran.Saleem@alliancetg.com>

Sent: Tuesday, October 1, 2024 2:19 PM

To: Sonny Puzzo <spuzzo@romaneg.com>

Cc: Jordan Hedvat <Jordan.Hedvat@alliancetg.com>

Subject: Project: Perth Amboy Query

Hi Sonny,

I am reaching out to regarding the Turn around time (TAT) of the results, the fax required says 6 days and then 10/7 which is confusing.

If results are required on 10/7, then TAT would be 4 days. If results are required in 6 days, then you will have results on 10/9.

Please confirm ASAP. Attached COC for your review.

Thanks.

NOTE: Chemtech is now an Alliance Technical Group company. Please add [AllianceTG.com](https://www.alliancetg.com) to your safe senders list to ensure receipt of important emails.

Regards,



Kiran Saleem

Project Manager

An Alliance Technical Group Company

Main: 908-789-8900

Direct: 908-728-3148

Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092

www.alliancetg.com



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
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

18,A,001
Q1218,024
Q863
RN
SS
D15
JE
R25,0
F100
GW0,0,102,121

Order ID : P4258 **ROMA02**
Client Name : Roman E&G Corp
Client Contact : Mark Mattheiss
Invoice Name : Roman E&G Corp
Invoice Contact : Mark Mattheiss

Order Date : 10/1/2024 1:21:00 PM
Project Name : Perth Amboy
Receive DateTime : 10/1/2024 12:54:00 PM
Purchase Order :

Project Mgr : Kiran
Report Type : Level 2 ~~Level 1~~ NJ Reduced
EDD Type : Excel ~~Excel~~ HAZ/Excel
Hard Copy Date :
Date Signoff : 10/1/2024 3:13:24 PM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4258-03	Chamberlain Ave	Solid	10/01/2024	11:45	VOC-TCLVOA-10	GROWS Soil	8260D		4 Bus. Days
P4258-04	Chamberlain Ave	Solid	10/01/2024	11:45	TCLP VOA	GROWS Soil-Waste Cla	8260C		4 Bus. Days

Relinquished By : 

Date / Time : 10-2-24 8:03

Received By : 

Date / Time : 10/02/24 8:03

Storage Area : VOA Refridgerator Room