

Cover Page

Order ID : P4663

Project ID : Rt. 10 Whippany

Client : Union Paving & Construction Company

Lab Sample Number

P4663-01
P4663-02
P4663-03
P4663-04
P4663-05
P4663-06
P4663-07
P4663-08

Client Sample Number

TENNANT-PAD-2-3-STOCKPILE
TENNANT-PAD-2-3-STOCKPILE
RES-BUILDING-PAD-NO-11
RES-BUILDING-PAD-NO-11
RES-BUILDING-PAD-NO-3
RES-BUILDING-PAD-NO-3
RES-BUILDING-PAD-NO-2
RES-BUILDING-PAD-NO-2

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: 11/13/2024

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 #: P4663

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: PRIYANKA DAVE

Date: 11/13/2024

LAB CHRONICLE

OrderID:	P4663	OrderDate:	10/31/2024 3:05:00 PM
Client:	Union Paving & Construction Company	Project:	Rt. 10 Whippany
Contact:	Gregory Butler	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4663-02	TENNANT-PAD-2-3-ST OCKPILE	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-04	RES-BUILDING-PAD-N O-11	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
P4663-06	RES-BUILDING-PAD-N O-3	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	
			PCB	8082A		11/01/24	11/01/24	
			Pesticide-TCL	8081B		11/01/24	11/01/24	
			TPH GC	8015D		11/01/24	11/01/24	
			EPH_NF	NJEPH		11/01/24	11/02/24	
			EPH_NF	NJEPH		11/01/24	11/05/24	
P4663-06DL	RES-BUILDING-PAD-N O-3DL	Solid			10/31/24			10/31/24
			EPH_NF	NJEPH		11/01/24	11/05/24	
P4663-08	RES-BUILDING-PAD-N O-2	SOIL			10/31/24			10/31/24
			Herbicide	8151A		11/04/24	11/05/24	

LAB CHRONICLE

PCB	8082A	11/01/24	11/01/24
Pesticide-TCL	8081B	11/01/24	11/01/24
TPH GC	8015D	11/01/24	11/01/24
EPH_NF	NJEPH	11/01/24	11/02/24



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

Hit Summary Sheet
SW-846

SDG No.: P4663

Order ID: P4663

Client: Union Paving & Construction Company

Project ID: Rt. 10 Whippany

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.: **P4663**

Client: **Union Paving & Construction Company**

Analytical Method: **8151A**

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits	
								Low	High
I.BLK-PS028217.D	PIBLK-PS028217.D	2,4-DCAA	1	500	506	101		70 (39)	130 (175)
		2,4-DCAA	2	500	449	90		70 (39)	130 (175)
I.BLK-PS028224.D	PIBLK-PS028224.D	2,4-DCAA	1	500	486	97		70 (39)	130 (175)
		2,4-DCAA	2	500	559	112		70 (39)	130 (175)
P4663-02	TENNANT-PAD-2-3-STOCKPILE	2,4-DCAA	1	500	278	56	*	70 (10)	130 (141)
		2,4-DCAA	2	500	253	51	*	70 (10)	130 (141)
P4663-04	RES-BUILDING-PAD-NO-11	2,4-DCAA	1	500	269	54	*	70 (10)	130 (141)
		2,4-DCAA	2	500	247	49	*	70 (10)	130 (141)
P4663-06	RES-BUILDING-PAD-NO-3	2,4-DCAA	1	500	249	50	*	70 (10)	130 (141)
		2,4-DCAA	2	500	194	39	*	70 (10)	130 (141)
P4663-08	RES-BUILDING-PAD-NO-2	2,4-DCAA	1	500	359	72		70 (10)	130 (141)
		2,4-DCAA	2	500	330	66	*	70 (10)	130 (141)
PB164641BL	PB164641BL	2,4-DCAA	1	500	572	114		70 (10)	130 (141)
		2,4-DCAA	2	500	568	114		70 (10)	130 (141)
PB164641BS	PB164641BS	2,4-DCAA	1	500	573	115		70 (10)	130 (141)
		2,4-DCAA	2	500	572	114		70 (10)	130 (141)
I.BLK-PS028236.D	PIBLK-PS028236.D	2,4-DCAA	1	500	573	115		70 (39)	130 (175)
		2,4-DCAA	2	500	538	108		70 (39)	130 (175)
I.BLK-PS028355.D	PIBLK-PS028355.D	2,4-DCAA	1	500	501	100		70 (39)	130 (175)
		2,4-DCAA	2	500	503	101		70 (39)	130 (175)
I.BLK-PS028405.D	PIBLK-PS028405.D	2,4-DCAA	1	500	511	102		70 (39)	130 (175)
		2,4-DCAA	2	500	472	94		70 (39)	130 (175)
P4602-44MS	CC0R8MS	2,4-DCAA	1	500	375	75		70 (10)	130 (141)
		2,4-DCAA	2	500	253	51	*	70 (10)	130 (141)
P4602-45MSD	CC0R8MSD	2,4-DCAA	1	500	379	76		70 (10)	130 (141)
		2,4-DCAA	2	500	254	51	*	70 (10)	130 (141)
I.BLK-PS028417.D	PIBLK-PS028417.D	2,4-DCAA	1	500	513	103		70 (39)	130 (175)
		2,4-DCAA	2	500	468	94		70 (39)	130 (175)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A

DataFile : PS028408.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Client Sample ID: P4602-44MS	CC0R8MS											
	DICAMBA	181.8	0	78.0	ug/Kg	43	*			70 (10)	130 (112)	
	DICHLORPROP	181.8	0	47.0	ug/Kg	26	*			70 (10)	130 (113)	
	2,4-D	181.8	0	90.4	ug/Kg	50	*			70 (10)	130 (144)	
	2,4,5-TP(Silvex)	181.8	0	29.7	ug/Kg	16	*			70 (10)	130 (114)	
	2,4,5-T	181.8	0	49.4	ug/Kg	27	*			70 (10)	130 (115)	
	2,4-DB	181.8	0	52.5	ug/Kg	29	*			70 (10)	130 (140)	
	Dinoseb	181.8	0	0	ug/Kg	0	*			70 (10)	130 (118)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A

DataFile : PS028409.D

Lab Sample ID:	Parameter	Spike	Sample		Units	Rec	Rec		RPD		Limits	
			Result	Result			Qual	RPD	Qual	Low	High	RPD
Client Sample ID:	CC0R8MSD											
P4602-45MSD	DICAMBA	181.7	0	78.6	ug/Kg	43	*	0		70 (10)	130 (112)	30 (20)
	DICHLORPROP	181.7	0	47.4	ug/Kg	26	*	0		70 (10)	130 (113)	30 (20)
	2,4-D	181.7	0	91.1	ug/Kg	50	*	0		70 (10)	130 (144)	30 (20)
	2,4,5-TP(Silvex)	181.7	0	29.9	ug/Kg	16	*	0		70 (10)	130 (114)	30 (20)
	2,4,5-T	181.7	0	50.0	ug/Kg	28	*	4		70 (10)	130 (115)	30 (20)
	2,4-DB	181.7	0	52.5	ug/Kg	29	*	0		70 (10)	130 (140)	30 (20)
	Dinoseb	181.7	0	0	ug/Kg	0	*	0		70 (10)	130 (118)	30 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4663

Client: Union Paving & Construction Company

Analytical Method: 8151A **Datafile :** PS028231.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB164641BS	DICAMBA	166.5	181	ug/Kg	109				70 (72)	130 (129)	
	DICHLORPROP	166.5	185	ug/Kg	111				70 (77)	130 (135)	
	2,4-D	166.5	186	ug/Kg	112				70 (65)	130 (144)	
	2,4,5-TP(Silvex)	166.5	194	ug/Kg	117				70 (74)	130 (146)	
	2,4,5-T	166.5	193	ug/Kg	116				70 (77)	130 (134)	
	2,4-DB	166.5	188	ug/Kg	113				70 (72)	130 (122)	
	Dinoseb	166.5	197	ug/Kg	118				70 (74)	130 (132)	

4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164641BL

Lab Name: CHEMTECH

Contract: UNIO02

Lab Code: CHEM Case No.: P4663

SAS No.: P4663 SDG NO.: P4663

Lab Sample ID: PB164641BL

Lab File ID: PS028230.D

Matrix: (soil/water) Solid

Extraction: (Type) _____

Sulfur Cleanup: (Y/N) N

Date Extracted: 11/04/2024

Date Analyzed (1): 11/05/2024

Date Analyzed (2): 11/05/2024

Time Analyzed (1): 22:36

Time Analyzed (2): 22:36

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
TENNANT-PAD-2-3-STOCKPILE	P4663-02	PS028226.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-11	P4663-04	PS028227.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-3	P4663-06	PS028228.D	11/05/2024	11/05/2024
RES-BUILDING-PAD-NO-2	P4663-08	PS028229.D	11/05/2024	11/05/2024
PB164641BS	PB164641BS	PS028231.D	11/05/2024	11/05/2024
CC0R8MS	P4602-44MS	PS028408.D	11/11/2024	11/11/2024
CC0R8MSD	P4602-45MSD	PS028409.D	11/11/2024	11/11/2024

COMMENTS: _____



SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	TENNANT-PAD-2-3-STOCKPILE	SDG No.:	P4663
Lab Sample ID:	P4663-02	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	90.9
Sample Wt/Vol:	30.02	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
PS028226.D	1	11/04/24 09:51	11/05/24 21:00	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.7	ug/Kg
120-36-5	DICHLORPROP	10.5	U	10.5	73.7	ug/Kg
94-75-7	2,4-D	13.3	U	13.3	73.7	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.7	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	73.7	ug/Kg
94-82-6	2,4-DB	20.1	U	20.1	73.7	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.7	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	278	*	70 (10) - 130 (141)	56%	SPK: 500

Comments:

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 P = Indicates >25% difference for detected concentrations between the two GC columns
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
 () = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028226.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 21:00
 Operator : AR\AJ
 Sample : P4663-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 ECD_S
ClientSampleId :
 TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:33:08 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.265	7.767	501.4E6	395.3E6	278.115m	252.744m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028226.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:00
Operator : AR\AJ
Sample : P4663-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

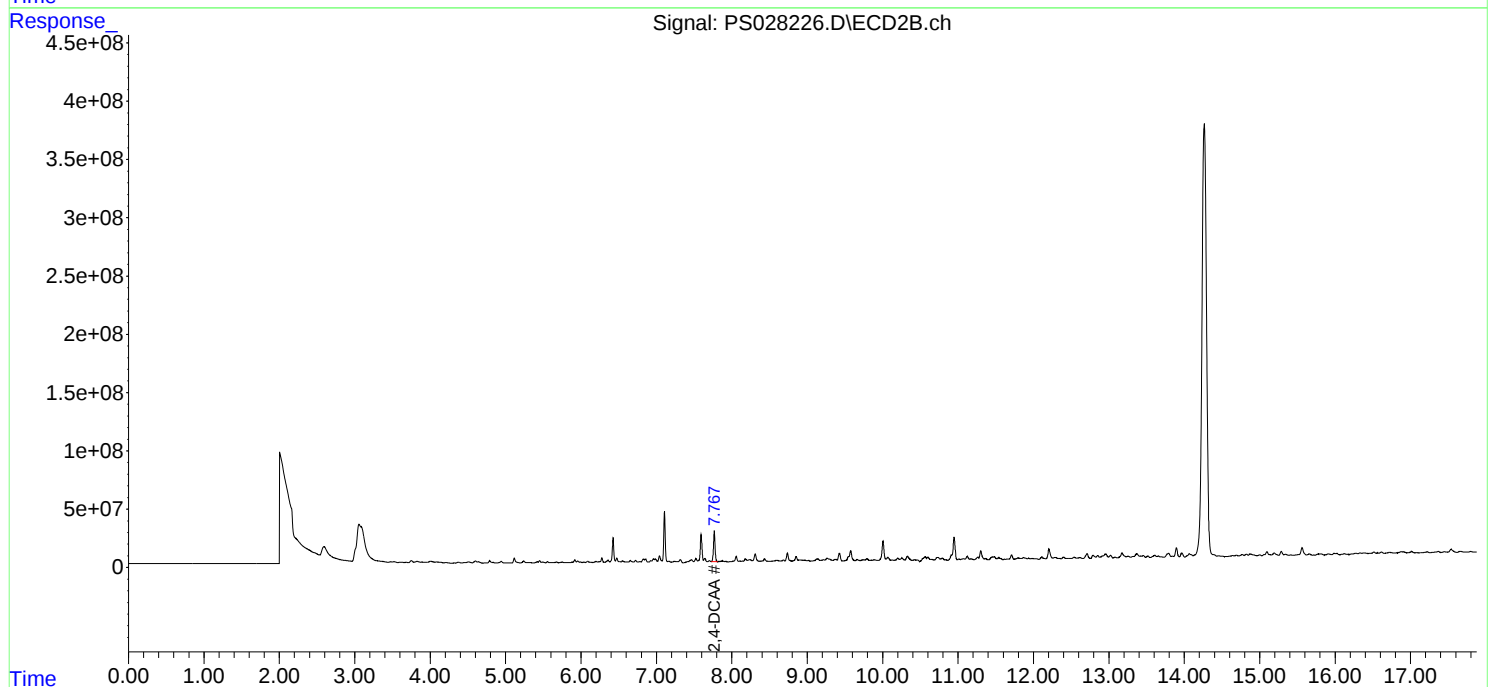
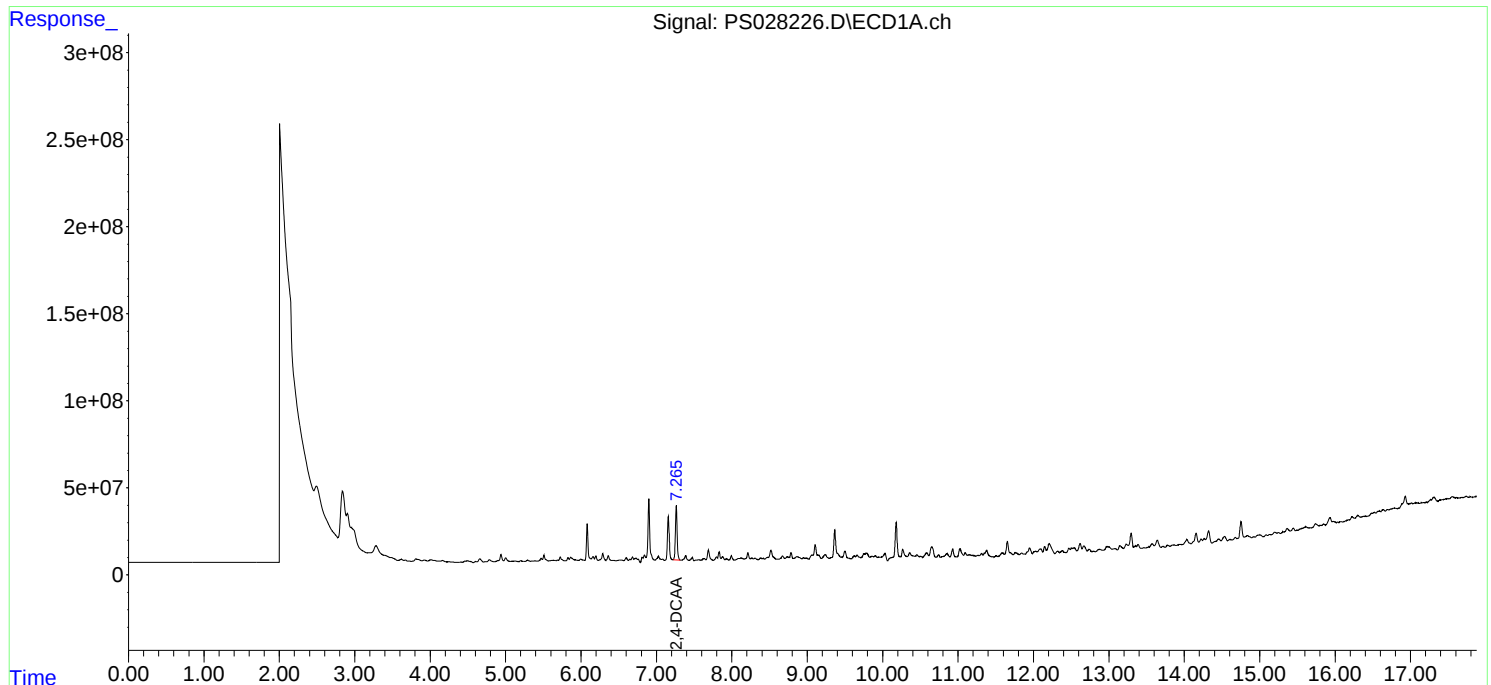
Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

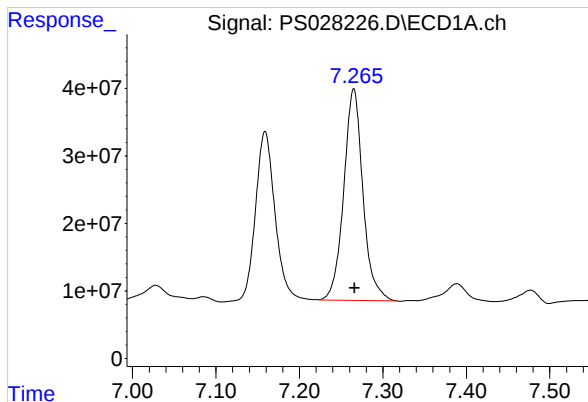
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/06/2024
Supervised By : Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:33:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





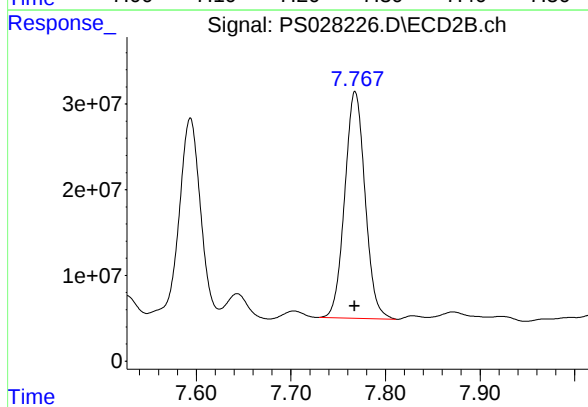
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: -0.001 min
Response: 501449848
Conc: 278.11 ng/ml

Instrument :
ECD_S
ClientSampleId :
TENNANT-PAD-2-3-STOCKPILE

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 395264104
Conc: 252.74 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-11	SDG No.:	P4663
Lab Sample ID:	P4663-04	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.7
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
PS028227.D	1	11/04/24 09:51	11/05/24 21:24	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.40	U	9.40	73.0	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.0	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.2	U	10.2	73.0	ug/Kg
93-76-5	2,4,5-T	11.0	U	11.0	73.0	ug/Kg
94-82-6	2,4-DB	19.9	U	19.9	73.0	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	269	*	70 (10) - 130 (141)	54%	SPK: 500

Comments:

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LOQ = Limit of Quantitation

MDL = Method Detection Limit

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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\PS110524\
 Data File : PS028227.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 21:24
 Operator : AR\AJ
 Sample : P4663-04
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 ECD_S
ClientSampleId :
 RES-BUILDING-PAD-NO-11

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:34:20 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.265	7.768	485.9E6	385.9E6	269.474m	246.786m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:24
Operator : AR\AJ
Sample : P4663-04
Misc :
ALS Vial : 10 Sample Multiplier: 1

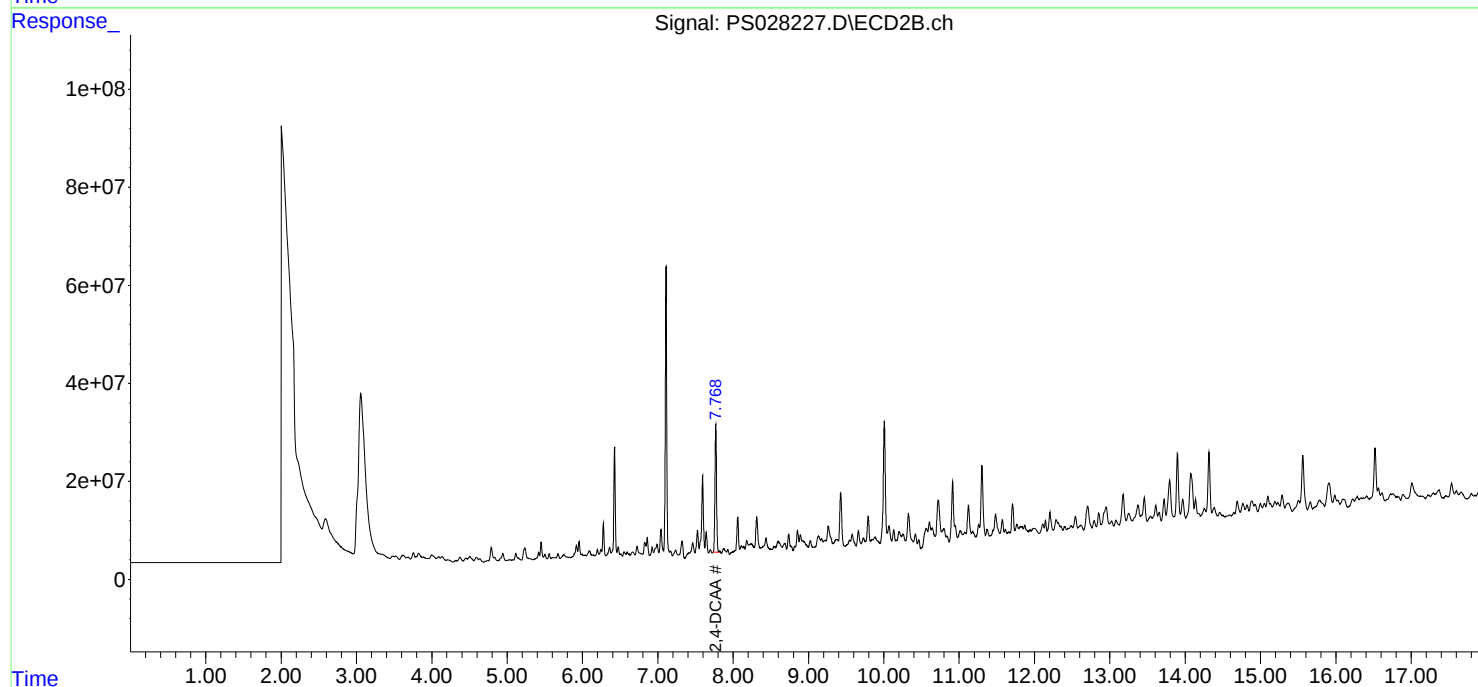
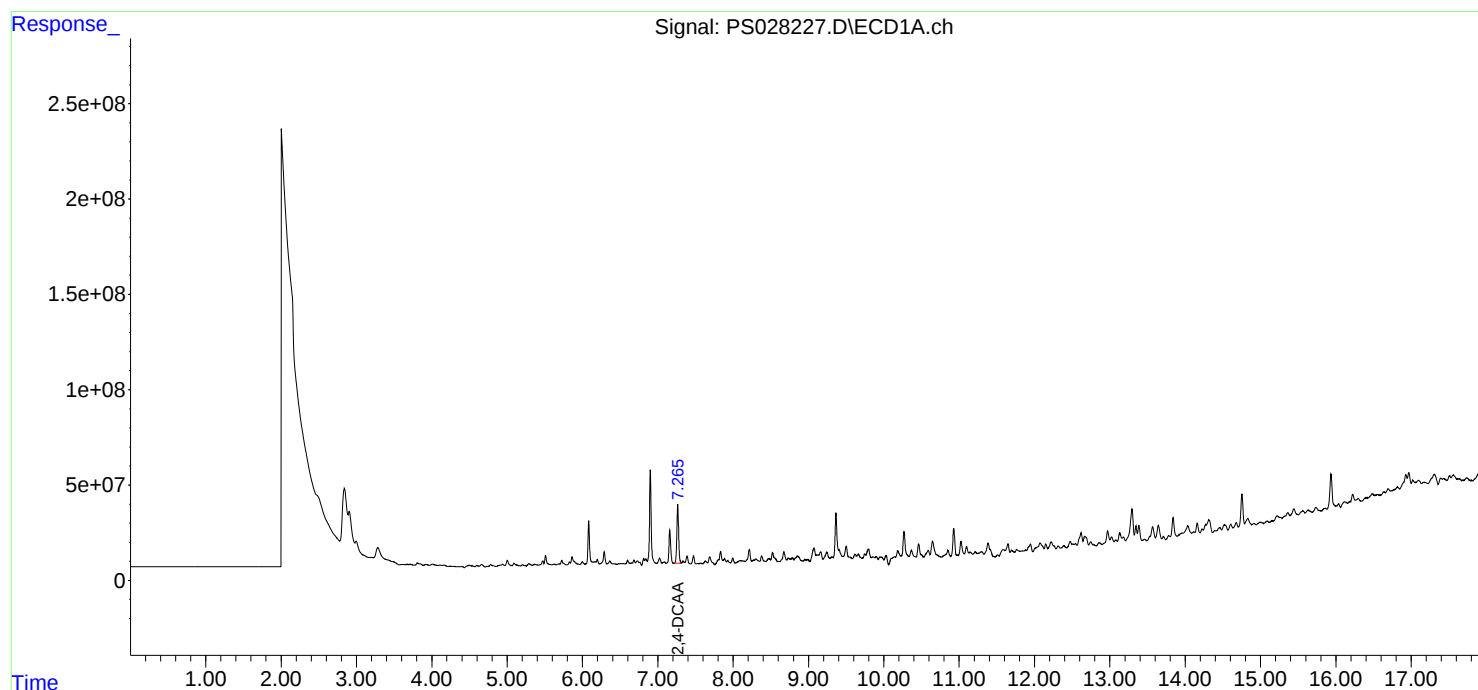
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

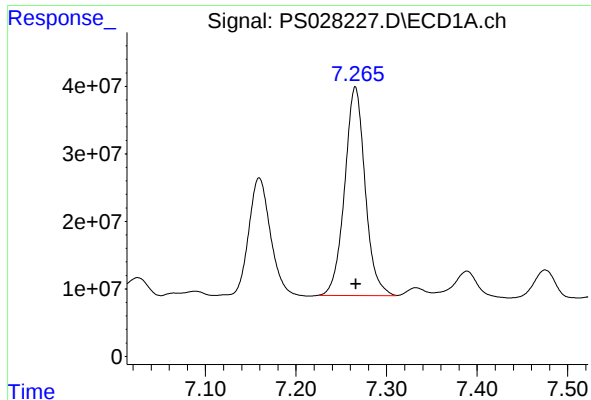
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/06/2024
Supervised By : Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:34:20 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





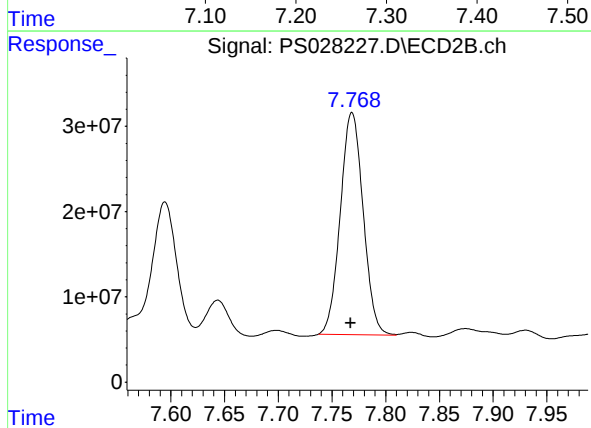
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: 0.000 min
Response: 485870074
Conc: 269.47 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-11

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.768 min
Delta R.T.: 0.000 min
Response: 385946630
Conc: 246.79 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-3	SDG No.:	P4663
Lab Sample ID:	P4663-06	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.2
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
PS028228.D	1	11/04/24 09:51	11/05/24 21:48	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.3	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.3	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.3	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.3	ug/Kg
93-76-5	2,4,5-T	11.1	U	11.1	73.3	ug/Kg
94-82-6	2,4-DB	20.0	U	20.0	73.3	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.3	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	249	*	70 (10) - 130 (141)	50%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028228.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 21:48
 Operator : AR\AJ
 Sample : P4663-06
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 ECD_S
ClientSampleId :
 RES-BUILDING-PAD-NO-3

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:35:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.266	7.769	448.4E6	302.7E6	248.690m	193.583

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028228.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 21:48
Operator : AR\AJ
Sample : P4663-06
Misc :
ALS Vial : 11 Sample Multiplier: 1

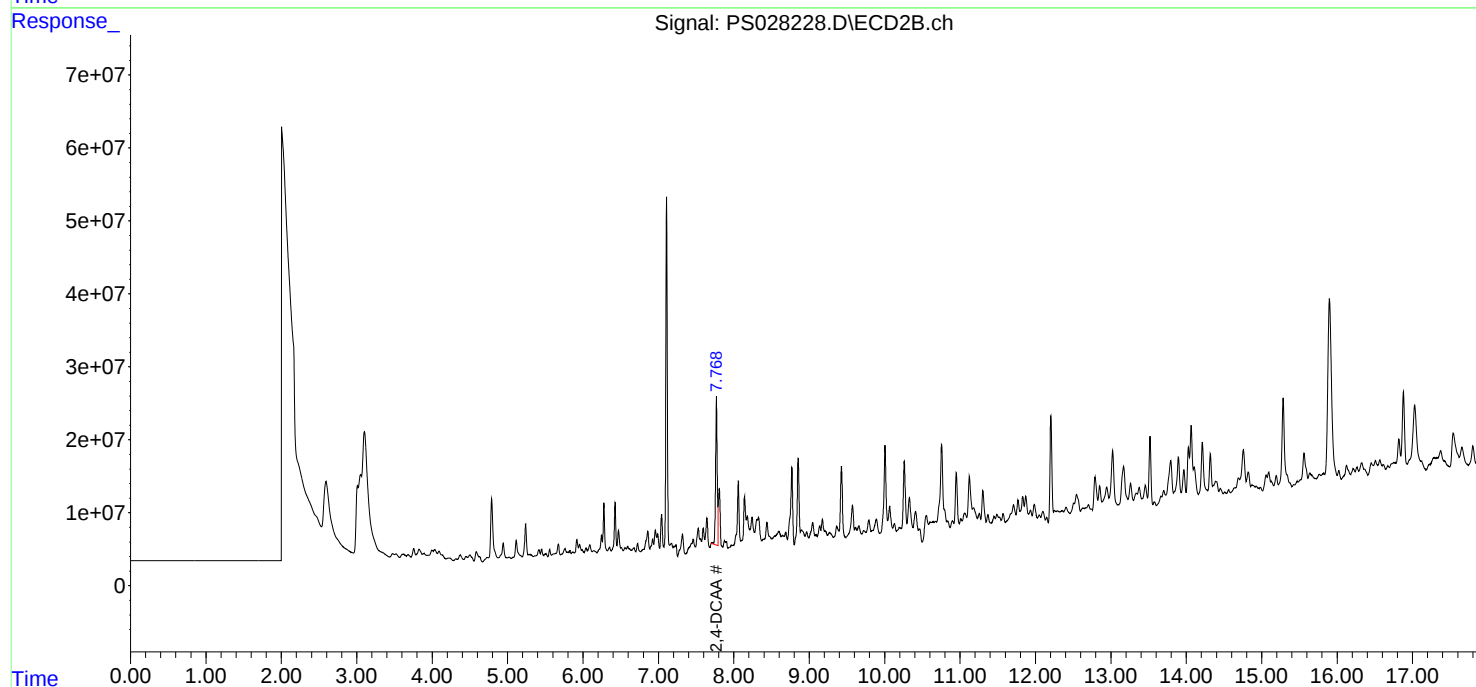
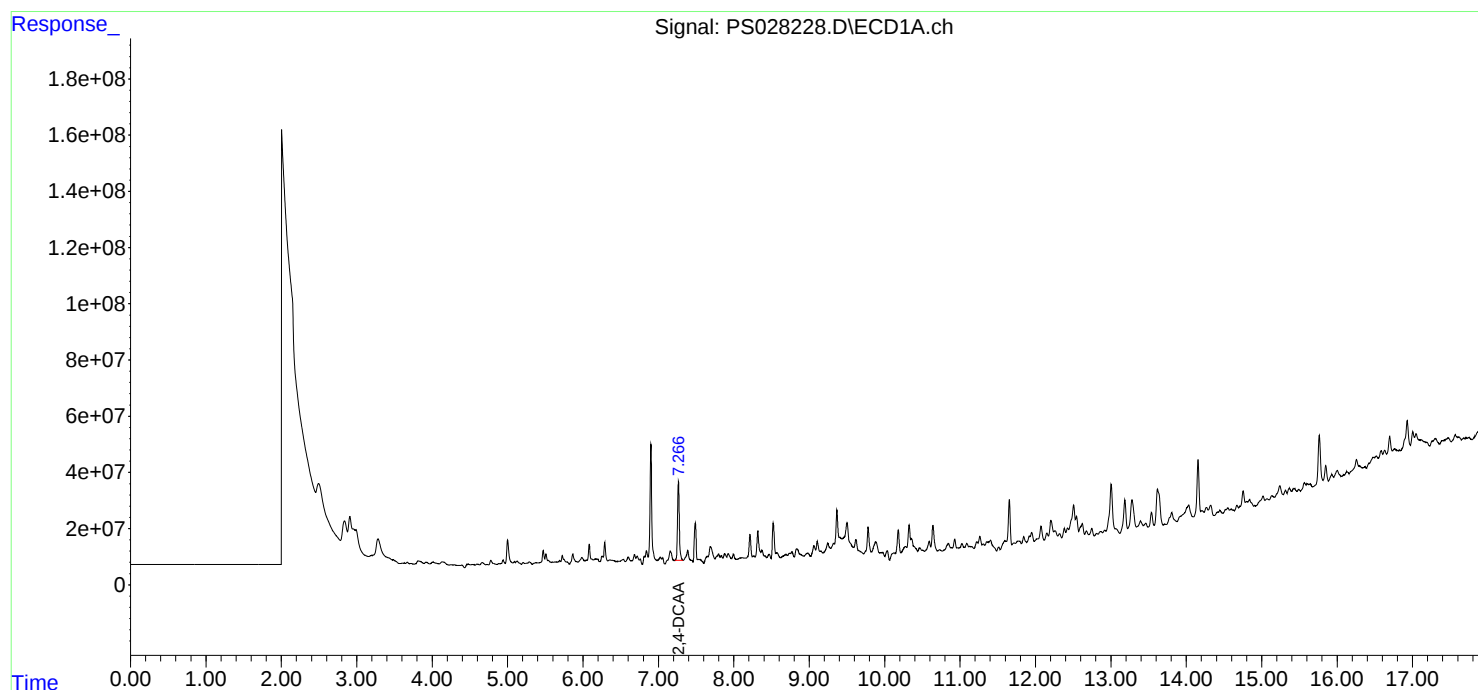
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

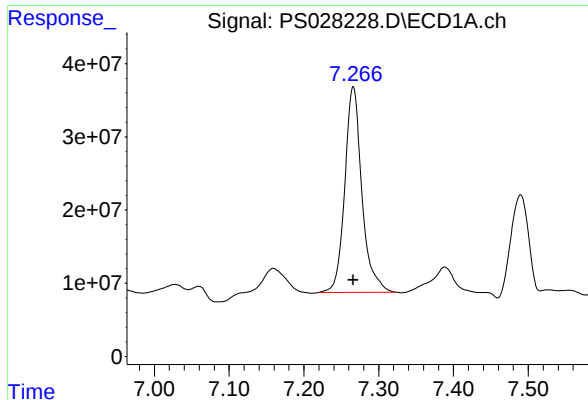
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/06/2024
Supervised By : Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:35:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





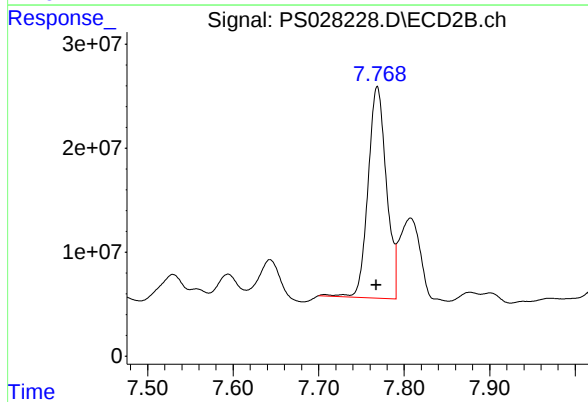
#4 2,4-DCAA

R.T.: 7.266 min
Delta R.T.: 0.000 min
Response: 448396223
Conc: 248.69 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-3

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.769 min
Delta R.T.: 0.001 min
Response: 302742902
Conc: 193.58 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	10/31/24
Project:	Rt. 10 Whippany	Date Received:	10/31/24
Client Sample ID:	RES-BUILDING-PAD-NO-2	SDG No.:	P4663
Lab Sample ID:	P4663-08	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.3
Sample Wt/Vol:	30.07	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
PS028229.D	1	11/04/24 09:51	11/05/24 22:12	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	9.50	U	9.50	73.2	ug/Kg
120-36-5	DICHLORPROP	10.4	U	10.4	73.2	ug/Kg
94-75-7	2,4-D	13.2	U	13.2	73.2	ug/Kg
93-72-1	2,4,5-TP (Silvex)	10.3	U	10.3	73.2	ug/Kg
93-76-5	2,4,5-T	11.0	U	11.0	73.2	ug/Kg
94-82-6	2,4-DB	20.0	U	20.0	73.2	ug/Kg
88-85-7	DINOSEB	13.6	U	13.6	73.2	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	359		70 (10) - 130 (141)	72%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028229.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 22:12
 Operator : AR\AJ
 Sample : P4663-08
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 ECD_S
ClientSampleId :
 RES-BUILDING-PAD-NO-2

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:36:25 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.265	7.767	647.8E6	516.4E6	359.295m	330.195m

Target Compounds

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028229.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:12
Operator : AR\AJ
Sample : P4663-08
Misc :
ALS Vial : 12 Sample Multiplier: 1

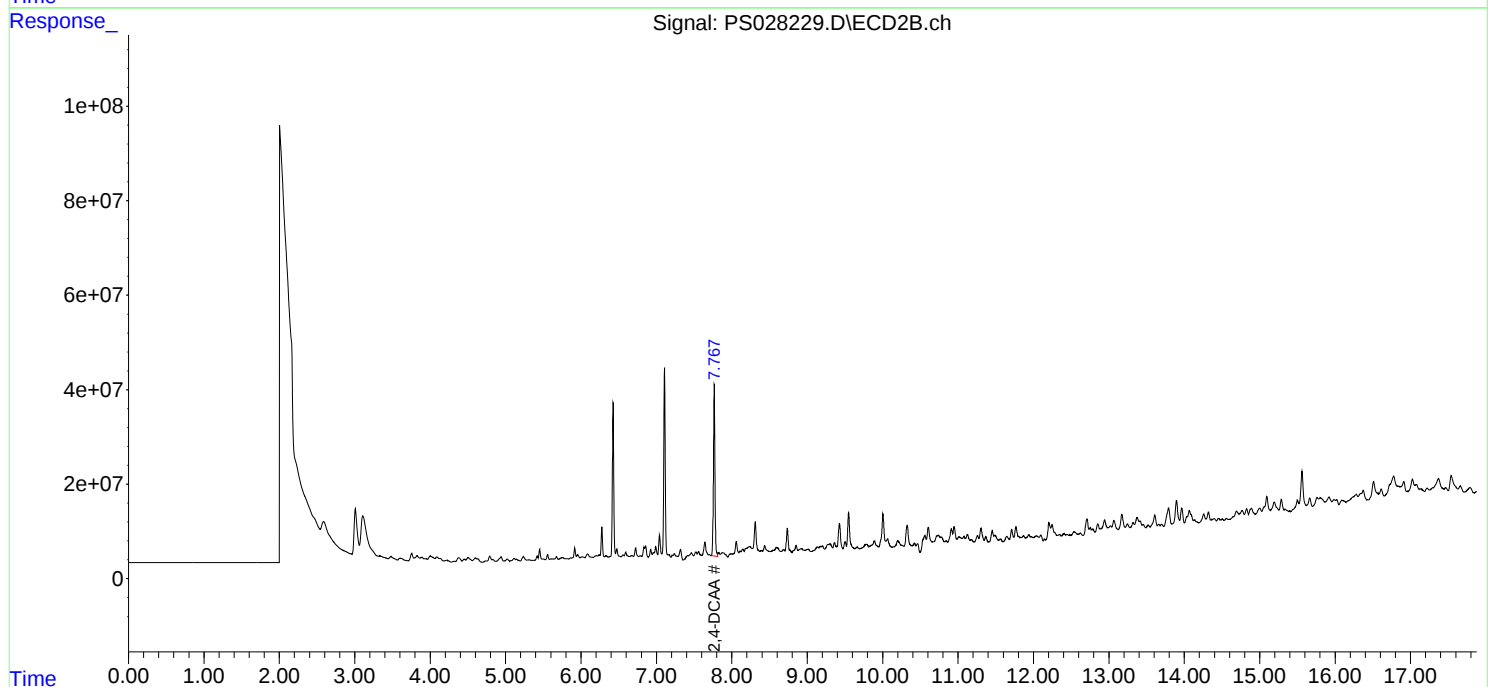
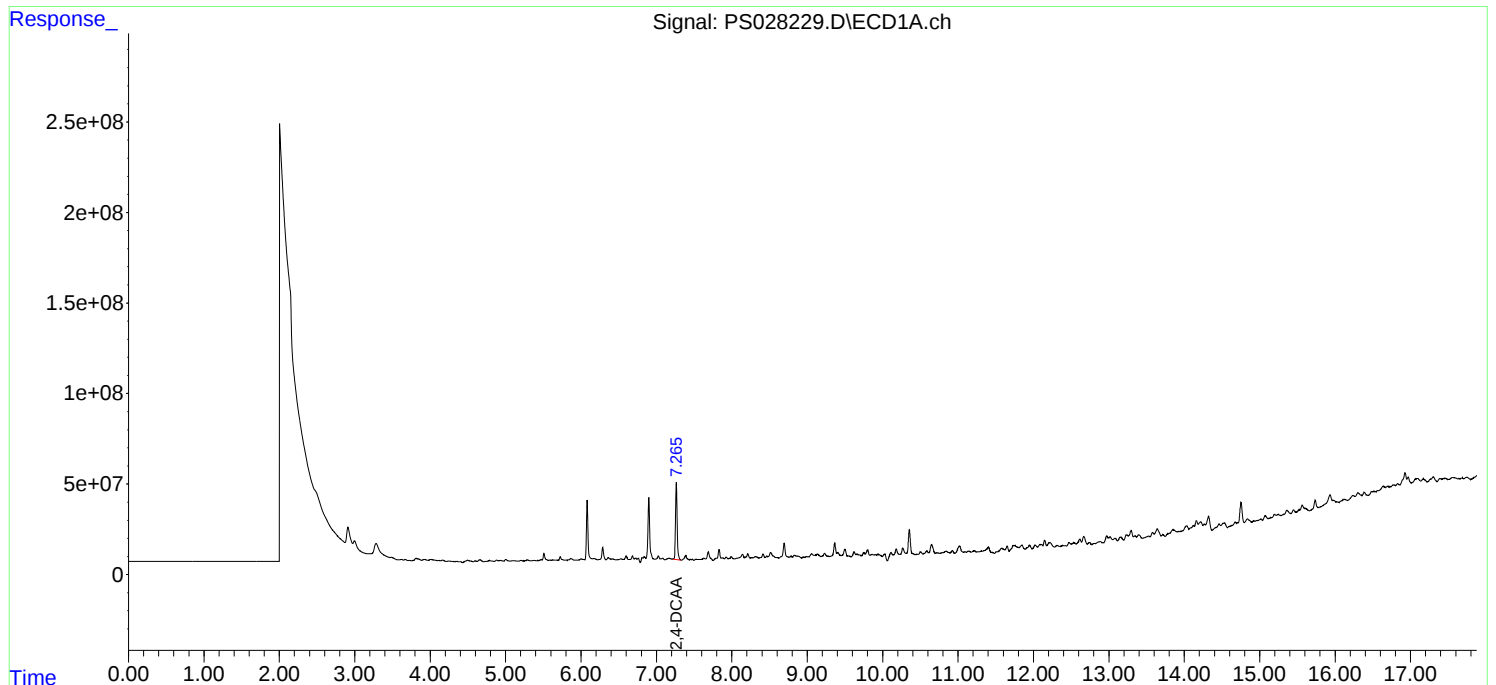
Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

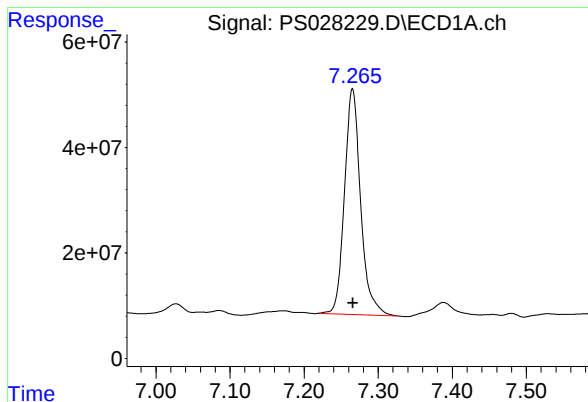
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/06/2024
Supervised By : Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:36:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





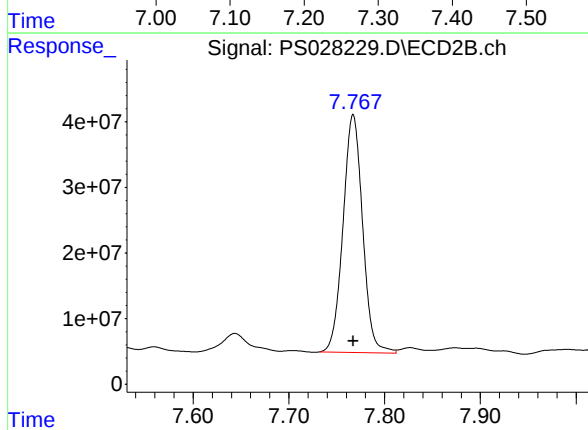
#4 2,4-DCAA

R.T.: 7.265 min
Delta R.T.: -0.001 min
Response: 647821115
Conc: 359.30 ng/ml

Instrument :
ECD_S
ClientSampleId :
RES-BUILDING-PAD-NO-2

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 516388977
Conc: 330.20 ng/ml



CALIBRATION SUMMARY

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

[illegible]

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

[illegible]



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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Instrument ID: ECD_S Calibration Date(s): 11/05/2024 11/05/2024
Calibration Times: 17:47 19:23

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

LAB FILE ID:		CF 200 =	<u>PS028218.D</u>	CF 500 =	<u>PS028219.D</u>		
CF 750 =		<u>PS028220.D</u>	CF 1000 =	<u>PS028221.D</u>	CF 1500 =	<u>PS028222.D</u>	
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10864300000	10379000000	10114700000	10018900000	9708090000	10217000000	4
2,4,5-TP(Silvex)	10665800000	10190300000	9917240000	9798710000	9474280000	10009300000	4
2,4-D	2252390000	2057520000	1979330000	1949790000	1898080000	2027420000	7
2,4-DB	1697290000	1642320000	1626160000	1642090000	1637530000	1649080000	2
2,4-DCAA	2041360000	1838240000	1754050000	1717240000	1664280000	1803030000	8
DICAMBA	8121700000	7919480000	7837710000	7867670000	7746320000	7898580000	2
DICHLORPROP	2027990000	1836850000	1760070000	1730110000	1677860000	1806570000	8
Dinoseb	8016870000	7537200000	7345150000	7403920000	7264640000	7513560000	4

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02
Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663
Instrument ID: ECD_S **Calibration Date(s):** 11/05/2024 11/05/2024
Calibration Times: 17:47 19:23
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028218.D</u>		CF 500 = <u>PS028219.D</u>			
CF 750 = <u>PS028220.D</u>		CF 1000 = <u>PS028221.D</u>		CF 1500 = <u>PS028222.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10795200000	9660240000	9538750000	12245500000	11250900000	10698100000	11
2,4,5-TP(Silvex)	10593300000	9695370000	9709370000	12412100000	11351400000	10752300000	11
2,4-D	1854130000	1747820000	1770940000	2264400000	2112450000	1949950000	12
2,4-DB	1468550000	1179450000	1183330000	1592700000	1506420000	1386090000	14
2,4-DCAA	1511030000	1402620000	1427160000	1797120000	1681510000	1563890000	11
DICAMBA	6474960000	6442200000	6713350000	8487490000	7946070000	7212810000	13
DICHLORPROP	1639070000	1545370000	1572970000	2041660000	1904200000	1740650000	13
Dinoseb	7892400000	6483700000	6408880000	8632200000	8089240000	7501280000	13

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028218.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 17:47
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/06/2024

Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:05:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:04:46 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	7.266	7.767	408.3E6	302.2E6	232.759m	211.754
Target Compounds							
1) T	Dalapon	2.659	2.712	589.2E6	589.8E6	189.106	243.437 #
2) T	3,5-DICHL...	6.433	6.718	582.7E6	418.3E6	212.711	192.389
3) T	4-Nitroph...	7.066	7.294	238.8E6	193.5E6	207.457	199.866
5) T	DICAMBA	7.455	7.968	1526.9E6	1217.3E6	194.812	181.324
6) T	MCP	7.635	8.066	96172008	79741962	17.303m	16.989
7) T	MCPA	7.785	8.311	159.9E6	124.6E6	19.991	19.384
8) T	DICHLORPROP	8.167	8.686	381.3E6	308.1E6	216.618	195.900
9) T	2,4-D	8.398	9.018	423.4E6	348.6E6	213.936	196.832
10) T	Pentachlo...	8.698	9.549	5484.7E6	4939.0E6	206.409	205.815
11) T	2,4,5-TP ...	9.281	9.925	2026.5E6	2012.7E6	204.341	207.297
12) T	2,4,5-T	9.574	10.347	2064.2E6	2051.1E6	204.081	215.027
13) T	2,4-DB	10.152	10.915	322.5E6	279.0E6	198.311	235.796
14) T	DINOSEB	11.369	11.295	1507.2E6	1483.8E6	205.193	231.518
15) T	Picloram	11.172	12.396	3296.1E6	2886.7E6	188.307	191.767
16) T	DCPA	11.661	12.342	2510.5E6	2356.5E6	202.898	206.557

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028218.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 17:47
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC200

Manual Integrations

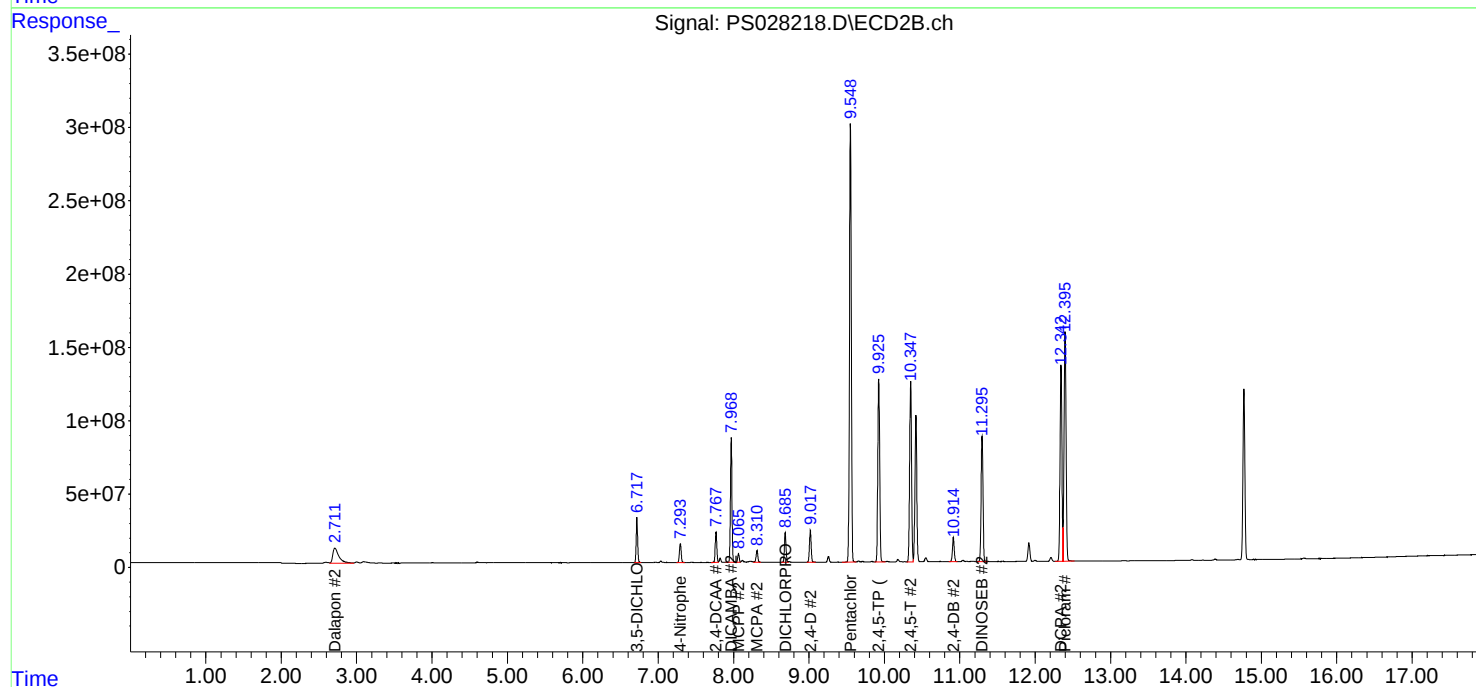
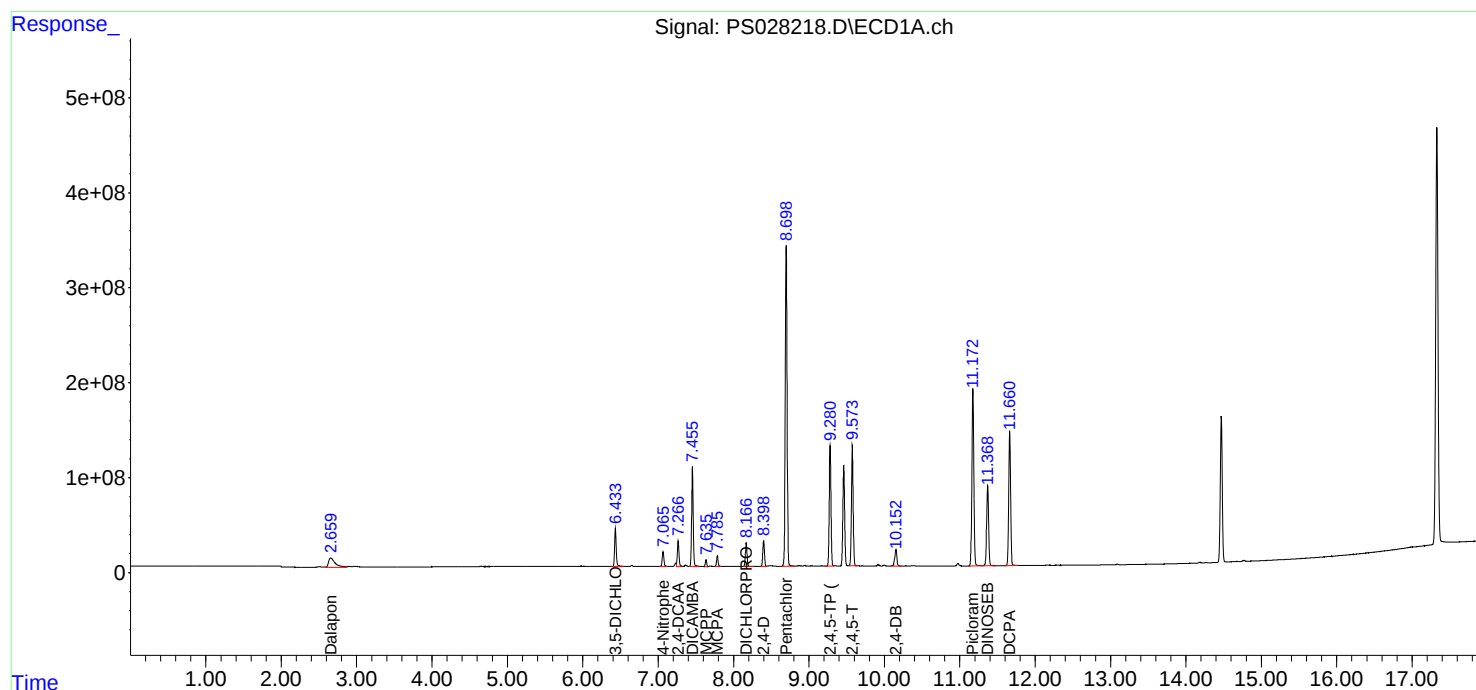
APPROVED

Reviewed By : Abdul Mirza 11/06/2024

Supervised By : Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:05:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:04:46 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\PS110524\
 Data File : PS028219.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 18:11
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/06/2024

Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:06:06 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:04:46 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	7.266	7.768	919.1E6	701.3E6	523.998	491.403
Target Compounds							
1) T	Dalapon	2.658	2.711	1435.5E6	1117.9E6	460.692	461.383
2) T	3,5-DICHL...	6.433	6.718	1328.4E6	994.7E6	484.980	457.471
3) T	4-Nitroph...	7.065	7.294	543.7E6	434.4E6	472.299	448.727
5) T	DICAMBA	7.455	7.969	3722.2E6	3027.8E6	474.904	451.017
6) T	MCPD	7.637	8.069	254.5E6	205.6E6	45.783m	43.805
7) T	MCPA	7.788	8.315	376.8E6	285.6E6	47.126	44.449
8) T	DICHLORPROP	8.167	8.686	863.3E6	726.3E6	490.504	461.752
9) T	2,4-D	8.398	9.018	967.0E6	821.5E6	488.567	463.866
10) T	Pentachlo...	8.698	9.550	13078.3E6	11541.1E6	492.182	480.933
11) T	2,4,5-TP ...	9.280	9.926	4840.4E6	4605.3E6	488.078	474.315
12) T	2,4,5-T	9.573	10.348	4930.0E6	4588.6E6	487.410	481.050
13) T	2,4-DB	10.151	10.915	780.1E6	560.2E6	479.719	473.445
14) T	DINOSEB	11.368	11.295	3542.5E6	3047.3E6	482.288	475.487
15) T	Picloram	11.172	12.396	8319.7E6	7818.1E6	475.305	519.359
16) T	DCPA	11.660	12.343	6084.3E6	6160.0E6	491.727	539.942

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028219.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 18:11
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

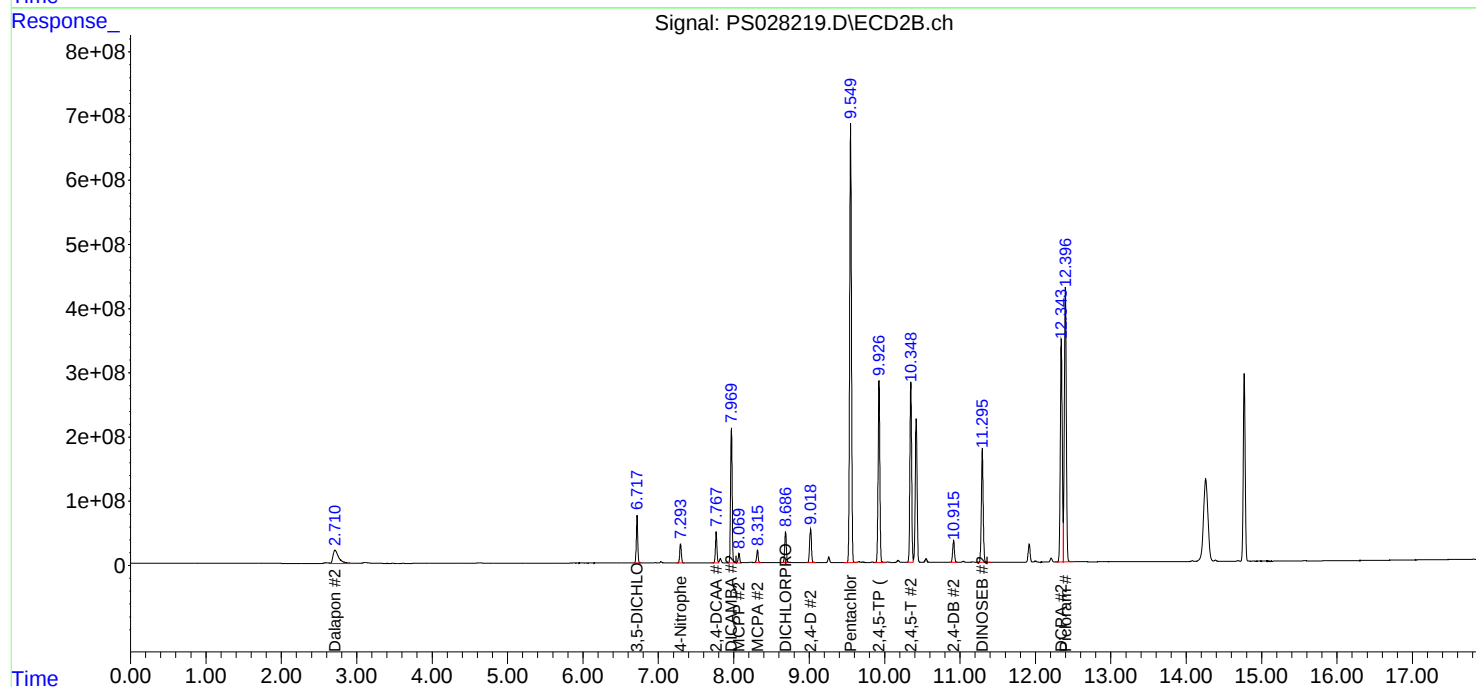
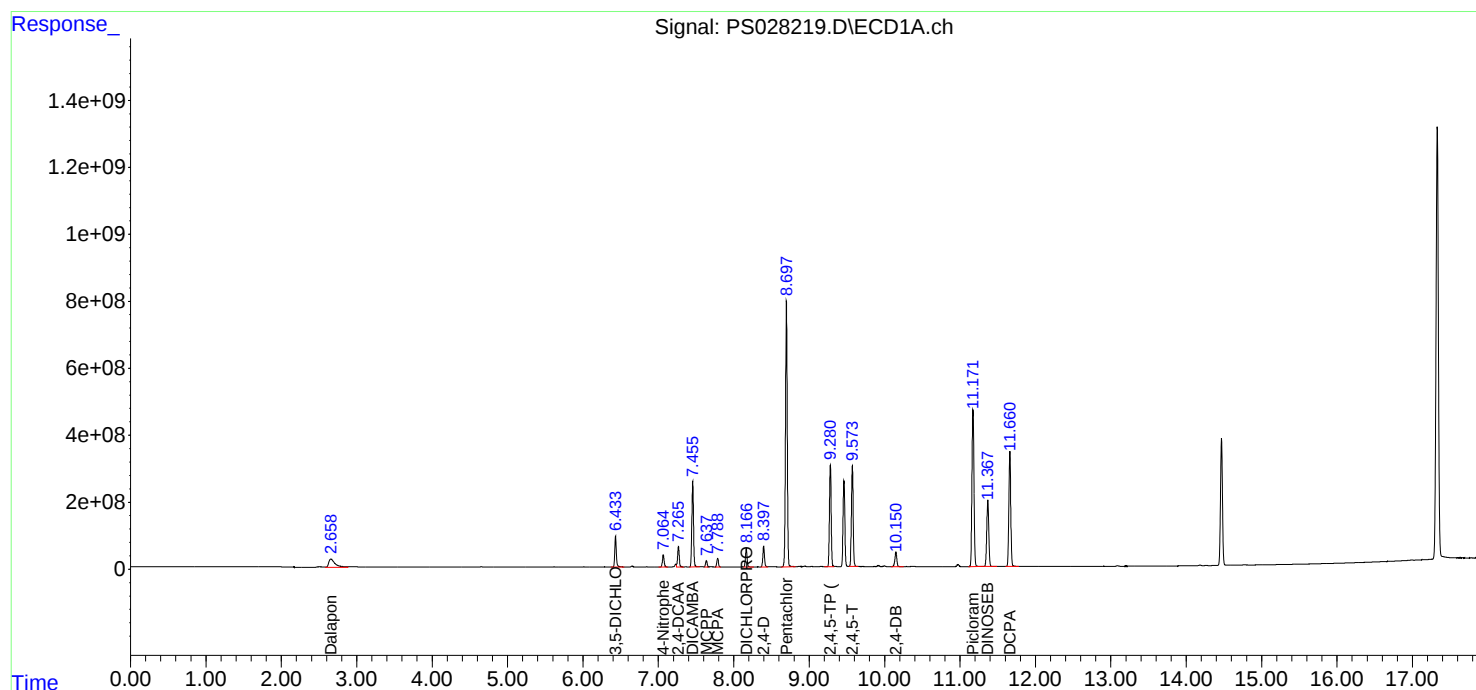
APPROVED

Reviewed By :Abdul Mirza 11/06/2024

Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:06:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:04:46 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\PS110524\
 Data File : PS028220.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 18:36
 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: Nov 06 00:06:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:04:46 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	7.266	7.767	1315.5E6	1070.4E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.657	2.710	2126.7E6	1653.6E6	682.500	682.500
2) T	3,5-DICHL...	6.433	6.718	1910.6E6	1516.6E6	697.500	697.500
3) T	4-Nitroph...	7.065	7.293	785.7E6	660.7E6	682.500	682.500
5) T	DICAMBA	7.455	7.969	5525.6E6	4732.9E6	705.000	705.000
6) T	MCPD	7.639	8.071	391.8E6	330.9E6	70.500	70.500
7) T	MCPA	7.790	8.317	557.8E6	448.2E6	69.750	69.750
8) T	DICHLORPROP	8.166	8.687	1240.8E6	1108.9E6	705.000	705.000
9) T	2,4-D	8.398	9.019	1395.4E6	1248.5E6	705.000	705.000
10) T	Pentachlo...	8.698	9.550	18932.5E6	17098.1E6	712.500	712.500
11) T	2,4,5-TP ...	9.281	9.926	7066.0E6	6917.9E6	712.500	712.500
12) T	2,4,5-T	9.573	10.348	7206.8E6	6796.4E6	712.500	712.500
13) T	2,4-DB	10.151	10.915	1158.6E6	843.1E6	712.500	712.500
14) T	DINOSEB	11.368	11.296	5178.3E6	4518.3E6	705.000	705.000
15) T	Picloram	11.172	12.397	12471.6E6	10725.5E6	712.500	712.500
16) T	DCPA	11.660	12.343	8908.7E6	8214.2E6	720.000	720.000

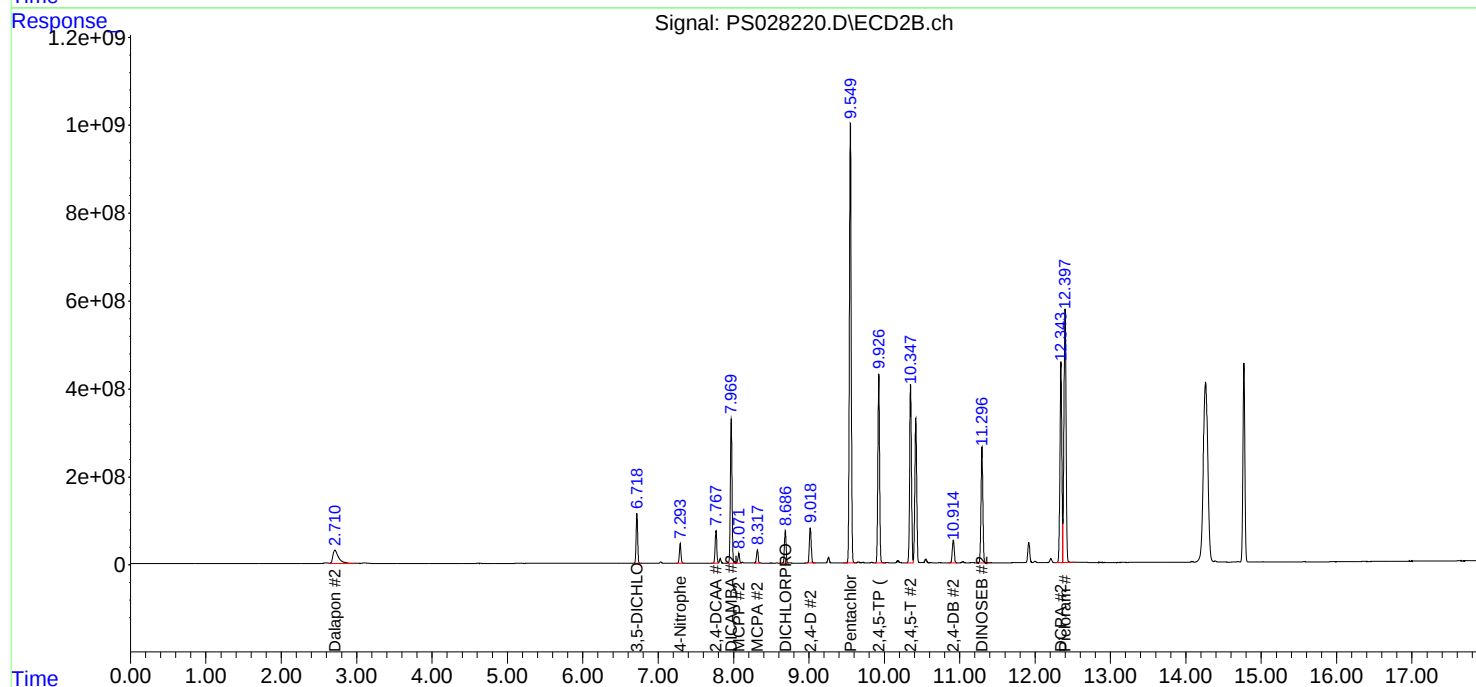
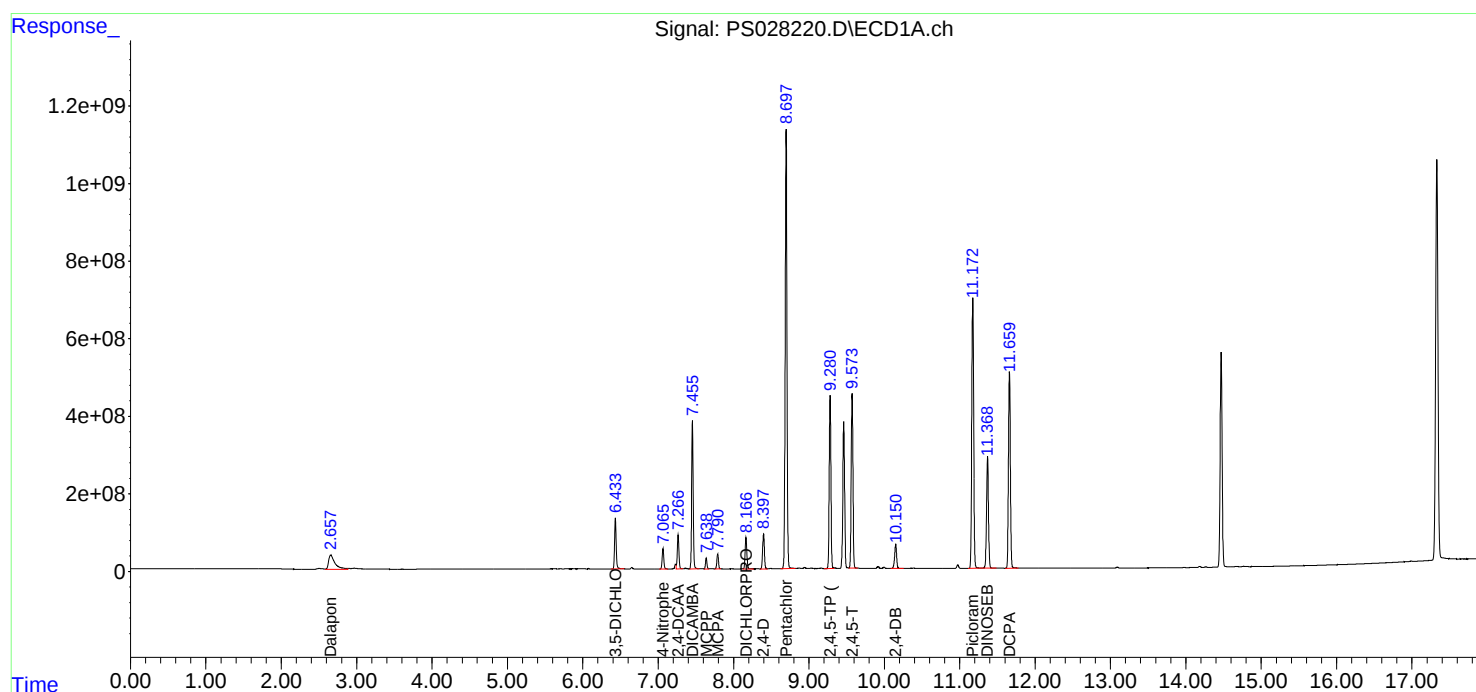
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028220.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 18:36
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: Nov 06 00:06:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:04:46 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\PS110524\
 Data File : PS028221.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 18:59
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Manual Integrations
 APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:07:04 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:04:46 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	7.266	7.768	1717.2E6	1797.1E6	979.012m	1259.231 #
Target Compounds							
1) T	Dalapon	2.656	2.712	2930.6E6	2568.7E6	940.507	1060.184
2) T	3,5-DICHL...	6.433	6.718	2502.9E6	2464.1E6	913.731	1133.268
3) T	4-Nitroph...	7.065	7.294	1039.1E6	1068.7E6	902.665	1104.043
5) T	DICAMBA	7.455	7.970	7395.6E6	7978.2E6	943.594	1188.414 #
6) T	MCPD	7.641	8.074	536.1E6	603.0E6	96.460	128.469 #
7) T	MCPA	7.793	8.320	745.0E6	791.9E6	93.164	123.231 #
8) T	DICHLORPROP	8.167	8.687	1626.3E6	1919.2E6	924.004	1220.084 #
9) T	2,4-D	8.398	9.019	1832.8E6	2128.5E6	925.973	1201.927 #
10) T	Pentachlo...	8.699	9.550	24685.5E6	27588.7E6	929.006	1149.654
11) T	2,4,5-TP ...	9.281	9.927	9308.8E6	11791.5E6	938.646	1214.440 #
12) T	2,4,5-T	9.573	10.349	9517.9E6	11633.2E6	940.996	1219.572 #
13) T	2,4-DB	10.151	10.916	1560.0E6	1513.1E6	959.308	1278.658 #
14) T	DINOSEB	11.369	11.297	6959.7E6	8114.3E6	947.520	1266.098 #
15) T	Picloram	11.172	12.397	16712.9E6	17366.7E6	954.807	1153.677
16) T	DCPA	11.661	12.343	11787.6E6	13330.1E6	952.669	1168.419

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028221.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 18:59
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

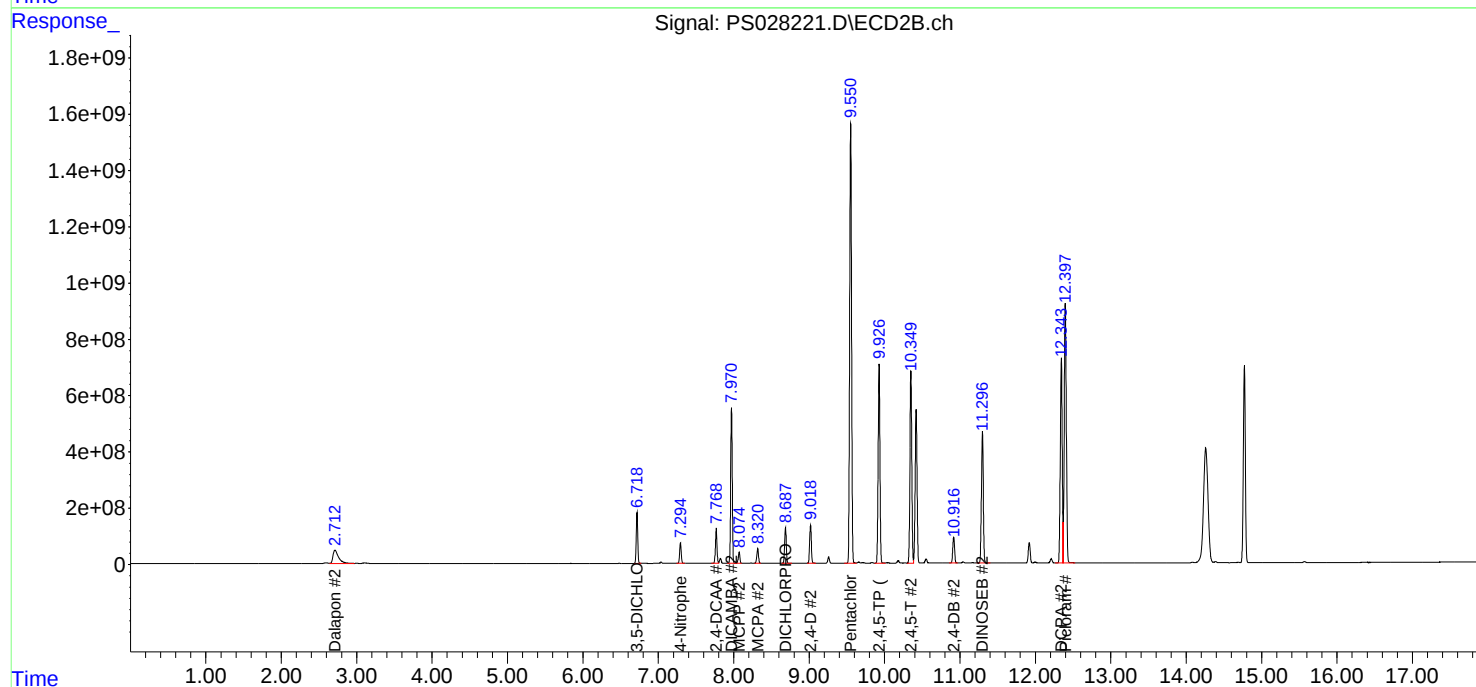
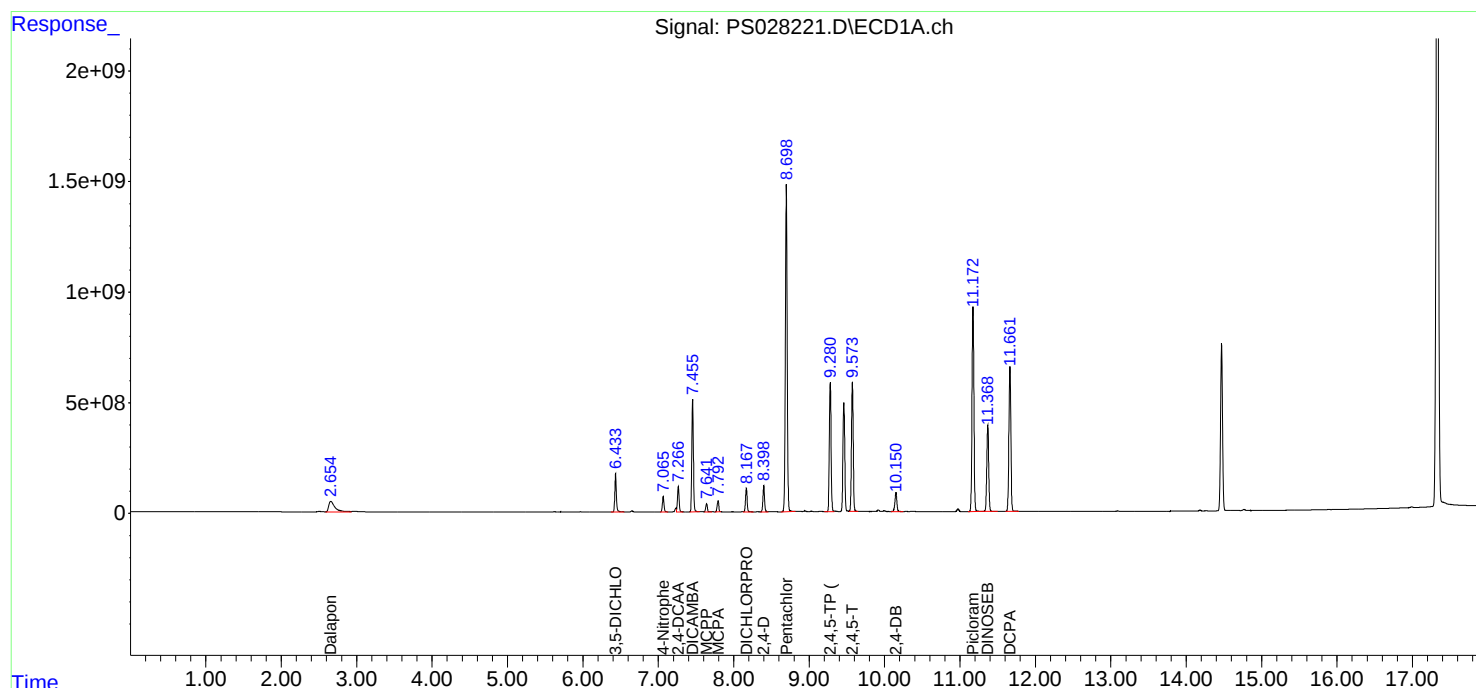
Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/07/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:07:04 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:04:46 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\PS110524\
 Data File : PS028222.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 19:23
 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: Nov 06 00:07:33 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:04:46 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	7.267	7.769	2496.4E6	2522.3E6	1423.228	1767.332
Target Compounds						
1) T Dalapon	2.658	2.712	4367.4E6	3951.4E6	1401.616	1630.898
2) T 3,5-DICHL...	6.434	6.719	3617.6E6	3491.7E6	1320.707	1605.914
3) T 4-Nitroph...	7.065	7.295	1536.7E6	1546.2E6	1334.912	1597.241
5) T DICAMBA	7.456	7.970	10922.3E6	11204.0E6	1393.559	1668.908
6) T MCPP	7.644	8.078	809.8E6	866.9E6	145.705	184.688 #
7) T MCPA	7.797	8.325	1095.0E6	1127.8E6	136.933	175.518 #
8) T DICHLORPROP	8.168	8.688	2365.8E6	2684.9E6	1344.141	1706.912 #
9) T 2,4-D	8.398	9.020	2676.3E6	2978.6E6	1352.120	1681.909
10) T Pentachlo...	8.698	9.551	35301.7E6	37079.6E6	1328.530	1545.151
11) T 2,4,5-TP ...	9.281	9.927	13500.9E6	16175.8E6	1361.352	1665.997
12) T 2,4,5-T	9.573	10.349	13834.0E6	16032.6E6	1367.709	1680.783
13) T 2,4-DB	10.151	10.917	2333.5E6	2146.7E6	1434.965	1814.086 #
14) T DINOSEB	11.369	11.297	10243.1E6	11405.8E6	1394.544	1779.692 #
15) T Picloram	11.173	12.398	24634.7E6	24370.3E6	1407.379	1618.931
16) T DCPA	11.660	12.345	17058.5E6	18169.5E6	1378.658	1592.606

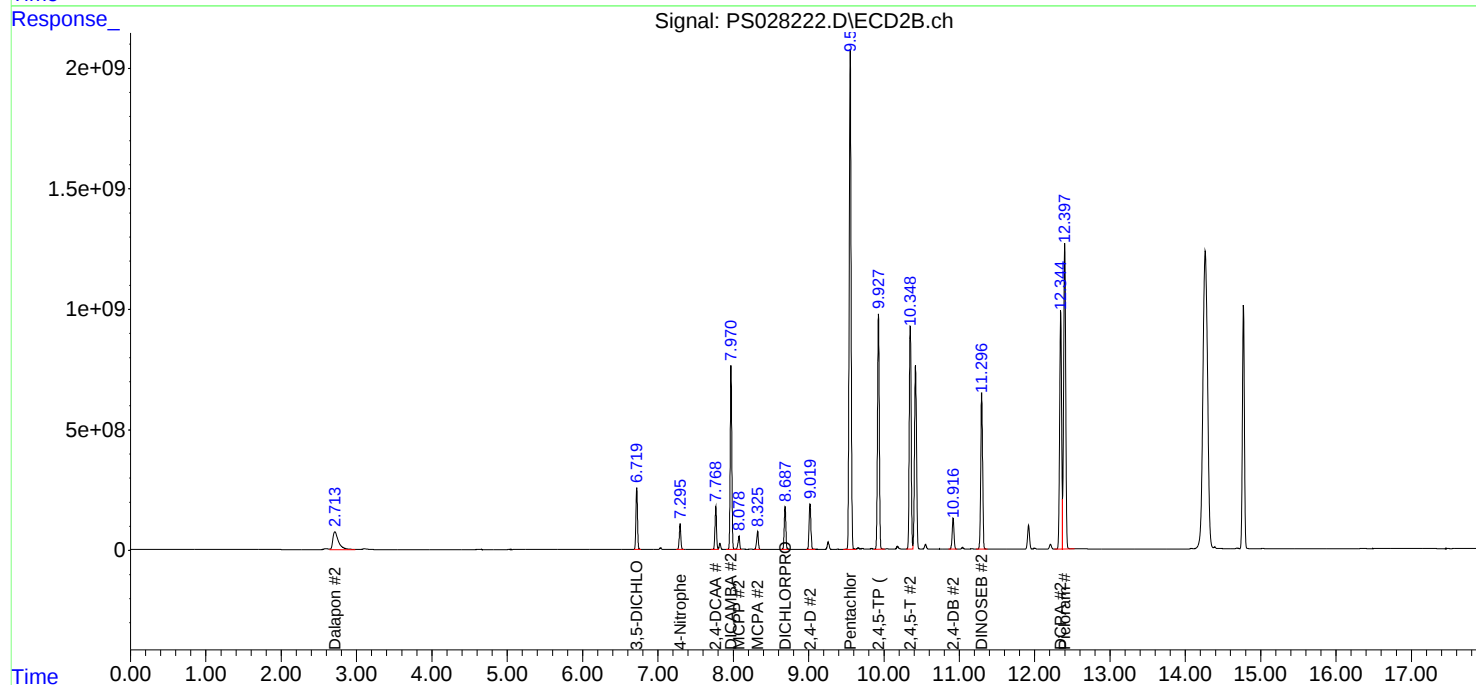
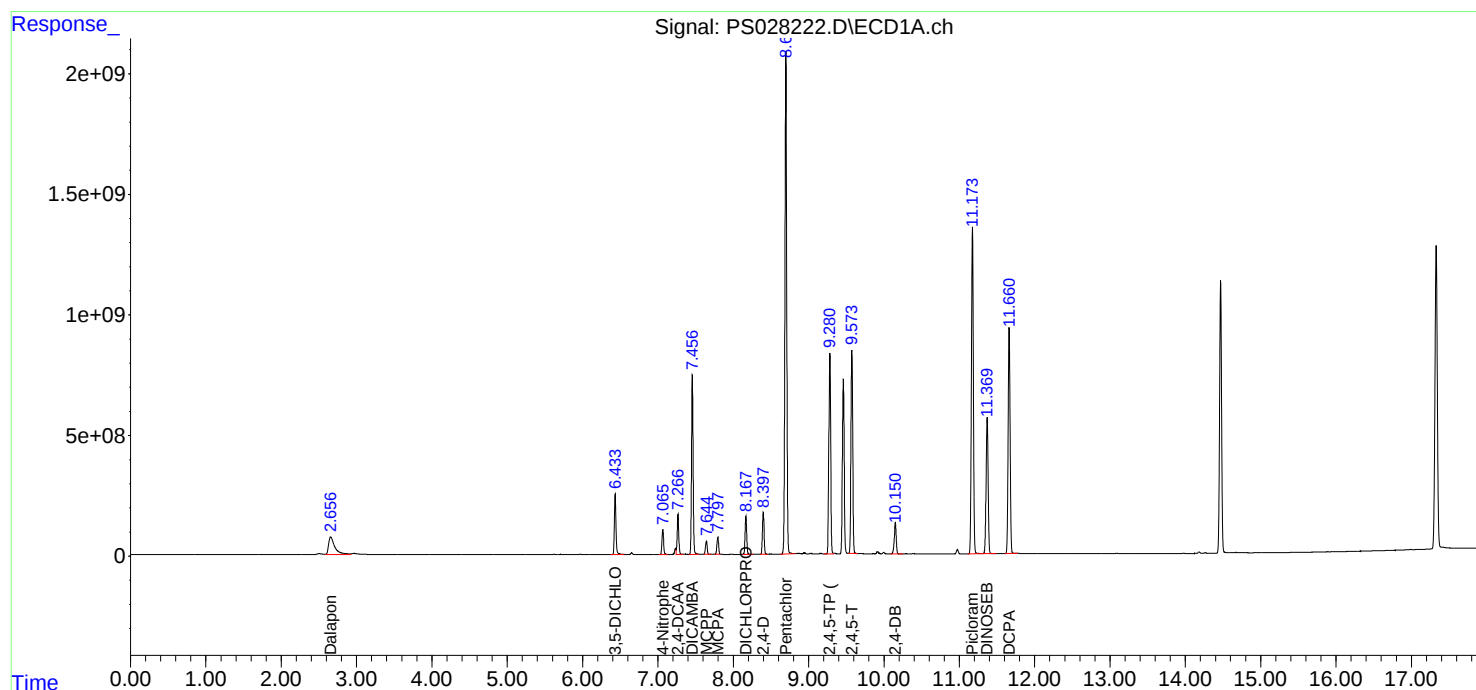
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028222.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 19:23
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: Nov 06 00:07:33 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:04:46 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\PS110524\
 Data File : PS028223.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 19:48
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS110524

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 10:44:27 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 10:44:06 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	7.265	7.768	1293.1E6	1271.7E6	717.173	813.143
Target Compounds							
1) T	Dalapon	2.657	2.711	2160.9E6	1966.5E6	678.321	710.529
2) T	3,5-DICHL...	6.433	6.718	1882.0E6	1764.2E6	671.499	752.963
3) T	4-Nitroph...	7.064	7.294	771.6E6	773.1E6	651.024	730.305
5) T	DICAMBA	7.455	7.970	5461.6E6	5645.2E6	691.464	782.664
6) T	MCPD	7.639	8.072	389.1E6	420.7E6	70.650	81.304
7) T	MCPA	7.789	8.318	557.8E6	563.9E6	68.773	78.612
8) T	DICHLORPROP	8.166	8.687	1215.7E6	1345.7E6	672.907	773.091
9) T	2,4-D	8.397	9.018	1368.7E6	1499.5E6	675.077	769.013
10) T	Pentachlo...	8.698	9.550	18583.1E6	20213.7E6	694.799	781.351
11) T	2,4,5-TP ...	9.280	9.927	6943.0E6	8395.3E6	693.655	780.793
12) T	2,4,5-T	9.573	10.348	7091.5E6	8285.3E6	694.083	774.461
13) T	2,4-DB	10.151	10.916	1145.0E6	1046.1E6	694.312	754.695
14) T	DINOSEB	11.368	11.296	5127.3E6	5676.5E6	682.410	756.730
15) T	Picloram	11.172	12.397	12421.0E6	12429.1E6	711.830	757.057
16) T	DCPA	11.660	12.344	8789.9E6	9364.1E6	706.026	742.960

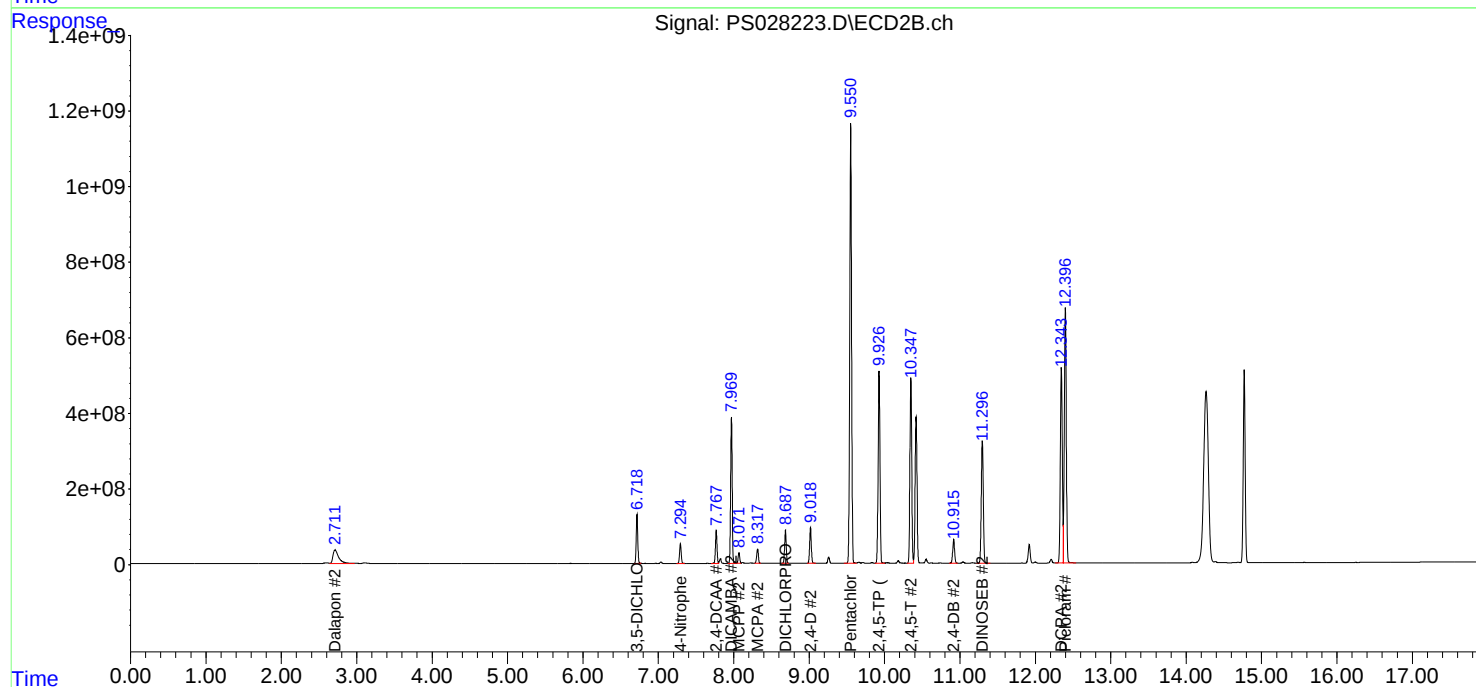
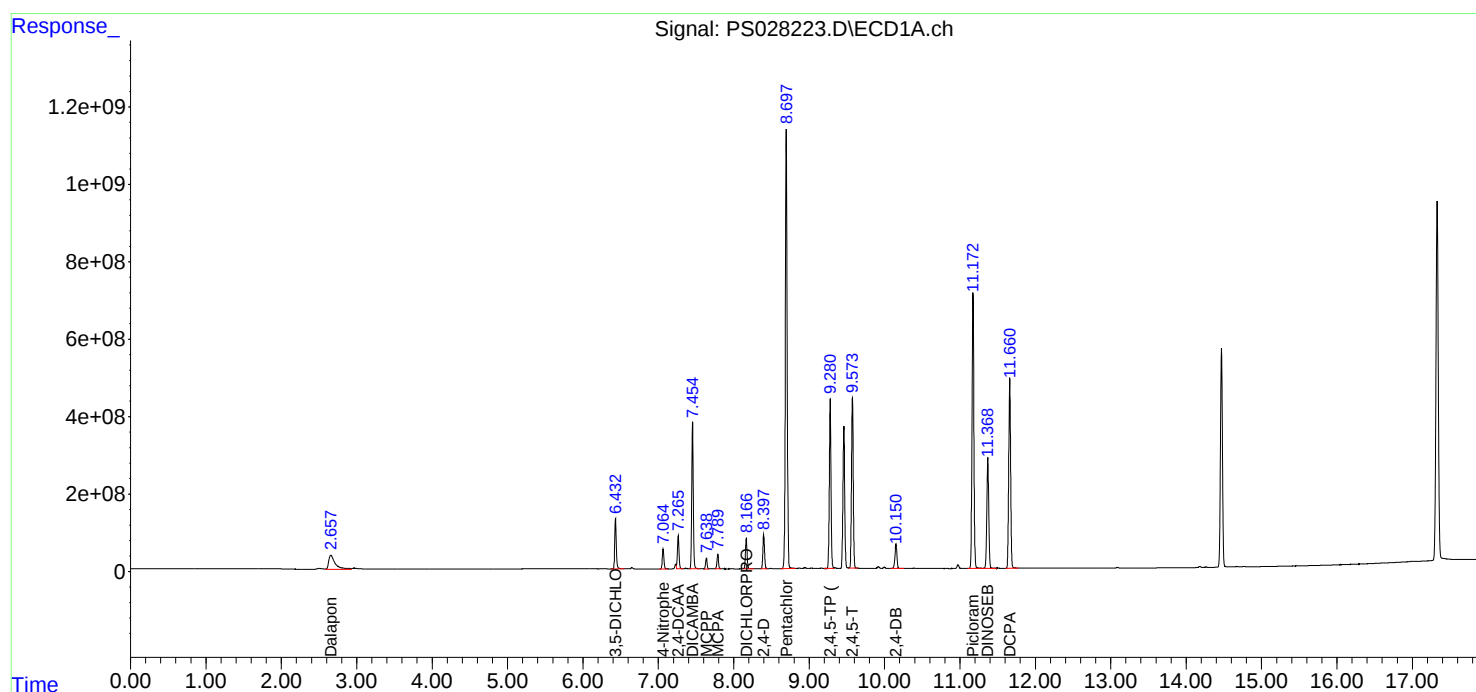
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028223.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 19:48
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS110524

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 10:44:27 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 10:44:06 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



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

[illegible]

RETENTION TIMES OF INITIAL CALIBRATION

Contract:	<u>UNIO02</u>						
Lab Code:	<u>CHEM</u>	Case No.:	<u>P4663</u>	SAS No.:	<u>P4663</u>	SDG NO.:	<u>P4663</u>
Instrument ID:	<u>ECD_S</u>	Calibration Date(s):		<u>11/08/2024</u>	<u>11/08/2024</u>		
		Calibration Times:		<u>15:13</u>	<u>16:58</u>		

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

LAB FILE ID:	RT 200 =	<u>PS028356.D</u>	RT 500 =	<u>PS028357.D</u>
	RT 750 =	PS028358.D	RT 1000 =	PS028359.D
			RT 1500 =	PS028360.D

[illegible]

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02
Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663
Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024
Calibration Times: 15:13 16:58
GC Column: RTX-CLP **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028356.D</u>		CF 500 = <u>PS028357.D</u>			
CF 750 = <u>PS028358.D</u>		CF 1000 = <u>PS028359.D</u>		CF 1500 = <u>PS028360.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	21529100000	19437000000	19525400000	18705500000	17708000000	19381000000	7
2,4,5-TP(Silvex)	21008200000	18982300000	19068100000	18267500000	17318700000	18929000000	7
2,4-D	3997770000	3571450000	3468690000	3334460000	3198650000	3514210000	9
2,4-DB	3352010000	3027230000	3093110000	3022410000	2959650000	3090880000	5
2,4-DCAA	3196830000	2740430000	2735520000	2619650000	2511350000	2760750000	9
DICAMBA	12975400000	11905100000	12166500000	11780900000	11375900000	12040700000	5
DICHLORPROP	3557350000	3056940000	3079000000	2957460000	2847450000	3099640000	9
Dinoseb	17552800000	16349100000	16308600000	15784700000	15071600000	16213400000	6

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: UNIO02
Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663
Instrument ID: ECD_S **Calibration Date(s):** 11/08/2024 11/08/2024
Calibration Times: 15:13 16:58
GC Column: RTX-CLP2 **ID:** 0.32 (mm)

LAB FILE ID:		CF 200 = <u>PS028356.D</u>		CF 500 = <u>PS028357.D</u>			
CF 750 = <u>PS028358.D</u>		CF 1000 = <u>PS028359.D</u>		CF 1500 = <u>PS028360.D</u>			
COMPOUND	CF 200	CF 500	CF 750	CF 1000	CF 1500	CF	% RSD
2,4,5-T	10782600000	10407300000	10530200000	10245600000	9914510000	10376000000	3
2,4,5-TP(Silvex)	10970300000	10612300000	10768700000	10478800000	10130800000	10592200000	3
2,4-D	2051780000	1901200000	1935300000	1900220000	1880580000	1933820000	4
2,4-DB	1351580000	1287180000	1335670000	1323760000	1328210000	1325280000	2
2,4-DCAA	1694540000	1575990000	1595150000	1561040000	1540400000	1593420000	4
DICAMBA	7032650000	7044480000	7350350000	7249840000	7170240000	7169510000	2
DICHLORPROP	1864120000	1759800000	1788540000	1754780000	1739090000	1781270000	3
Dinoseb	7376340000	7195700000	7257020000	7126590000	6931080000	7177340000	2

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
 Data File : PS028356.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 15:13
 Operator : AR\AJ
 Sample : HSTDICC200
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC200

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 16:44:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 16:40:02 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	7.250	7.755	639.4E6	338.9E6	221.163	208.958
Target Compounds							
1) T	Dalapon	2.649	2.709	639.6E6	535.0E6	180.591	187.020
2) T	3,5-DICHL...	6.419	6.707	834.2E6	459.1E6	199.534	190.228
3) T	4-Nitroph...	7.049	7.282	353.5E6	199.1E6	181.638	178.299
5) T	DICAMBA	7.438	7.956	2439.4E6	1322.1E6	197.536	185.109
6) T	MCP	7.618	8.055	133.1E6	107.5E6	16.834	18.386
7) T	MCPA	7.767	8.299	198.7E6	158.6E6	17.768	19.466
8) T	DICHLORPROP	8.148	8.674	668.8E6	350.5E6	206.983	194.249
9) T	2,4-D	8.379	9.005	751.6E6	385.7E6	204.272	196.527
10) T	Pentachlo...	8.679	9.534	10049.1E6	5003.0E6	203.477	194.171
11) T	2,4,5-TP ...	9.260	9.911	3991.6E6	2084.4E6	202.759	193.286
12) T	2,4,5-T	9.553	10.333	4090.5E6	2048.7E6	202.864	193.761
13) T	2,4-DB	10.130	10.901	636.9E6	256.8E6	201.708	193.839
14) T	DINOSEB	11.345	11.280	3299.9E6	1386.8E6	197.166	190.583
15) T	Picloram	11.150	12.379	6290.0E6	2627.0E6	195.582	183.908
16) T	DCPA	11.638	12.326	5559.4E6	2181.1E6	199.687	191.134

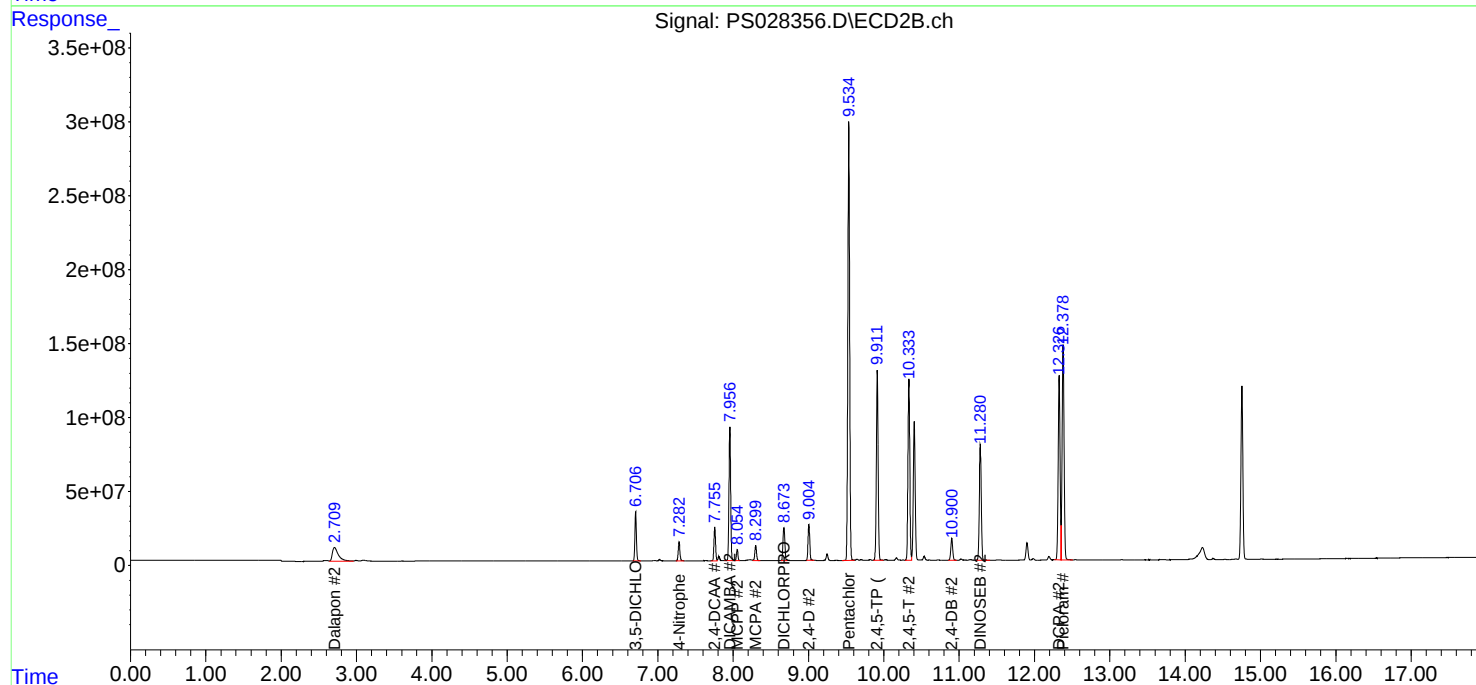
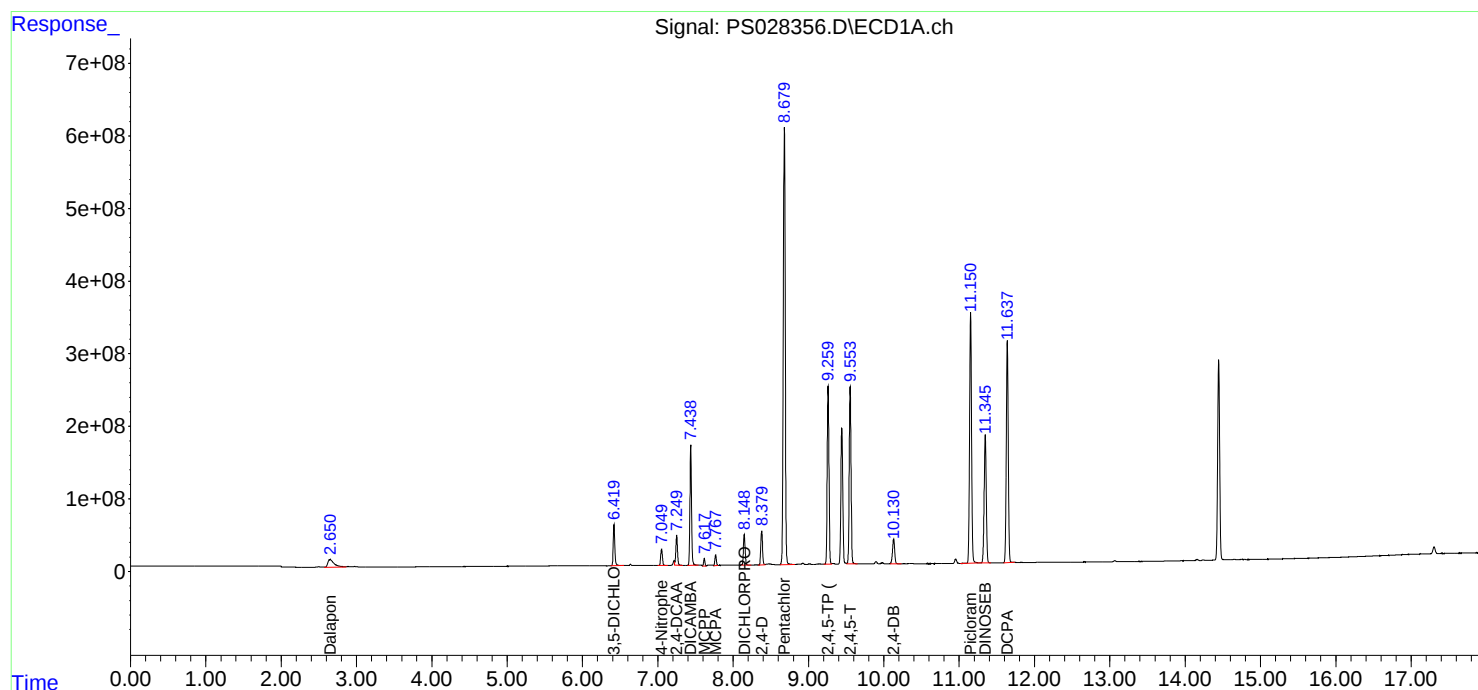
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028356.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 15:13
Operator : AR\AJ
Sample : HSTDICC200
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC200

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 16:44:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 16:40:02 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\PS110924\
 Data File : PS028357.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 15:46
 Operator : AR\AJ
 Sample : HSTDICC500
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/11/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 16:42:36 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 16:40:02 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	7.251	7.753	1370.2E6	788.0E6	498.788m	496.979
Target Compounds							
1) T	Dalapon	2.645	2.702	1582.7E6	1275.2E6	445.190	452.045
2) T	3,5-DICHL...	6.421	6.705	1902.5E6	1118.9E6	472.259	468.984
3) T	4-Nitroph...	7.051	7.280	963.6E6	569.3E6	494.651	504.695
5) T	DICAMBA	7.440	7.955	5595.4E6	3310.9E6	464.895	460.013
6) T	MCP	7.622	8.055	384.8E6	276.6E6	46.237	46.777
7) T	MCPA	7.772	8.300	536.1E6	370.5E6	46.896	46.572
8) T	DICHLORPROP	8.151	8.672	1436.8E6	827.1E6	468.310	466.194
9) T	2,4-D	8.382	9.003	1678.6E6	893.6E6	476.860	465.822
10) T	Pentachlo...	8.682	9.533	22692.1E6	12126.5E6	476.373	475.863
11) T	2,4,5-TP ...	9.264	9.910	9016.6E6	5040.9E6	473.928	471.525
12) T	2,4,5-T	9.556	10.331	9232.6E6	4943.4E6	473.922	472.211
13) T	2,4-DB	10.132	10.898	1437.9E6	611.4E6	469.887	466.218
14) T	DINOSEB	11.348	11.278	7684.1E6	3382.0E6	470.583	468.006
15) T	Picloram	11.153	12.378	14946.2E6	6738.5E6	471.666	464.296
16) T	DCPA	11.640	12.325	13258.0E6	5501.2E6	485.938	480.983

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028357.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 15:46
Operator : AR\AJ
Sample : HSTDICC500
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDICC500

Manual Integrations

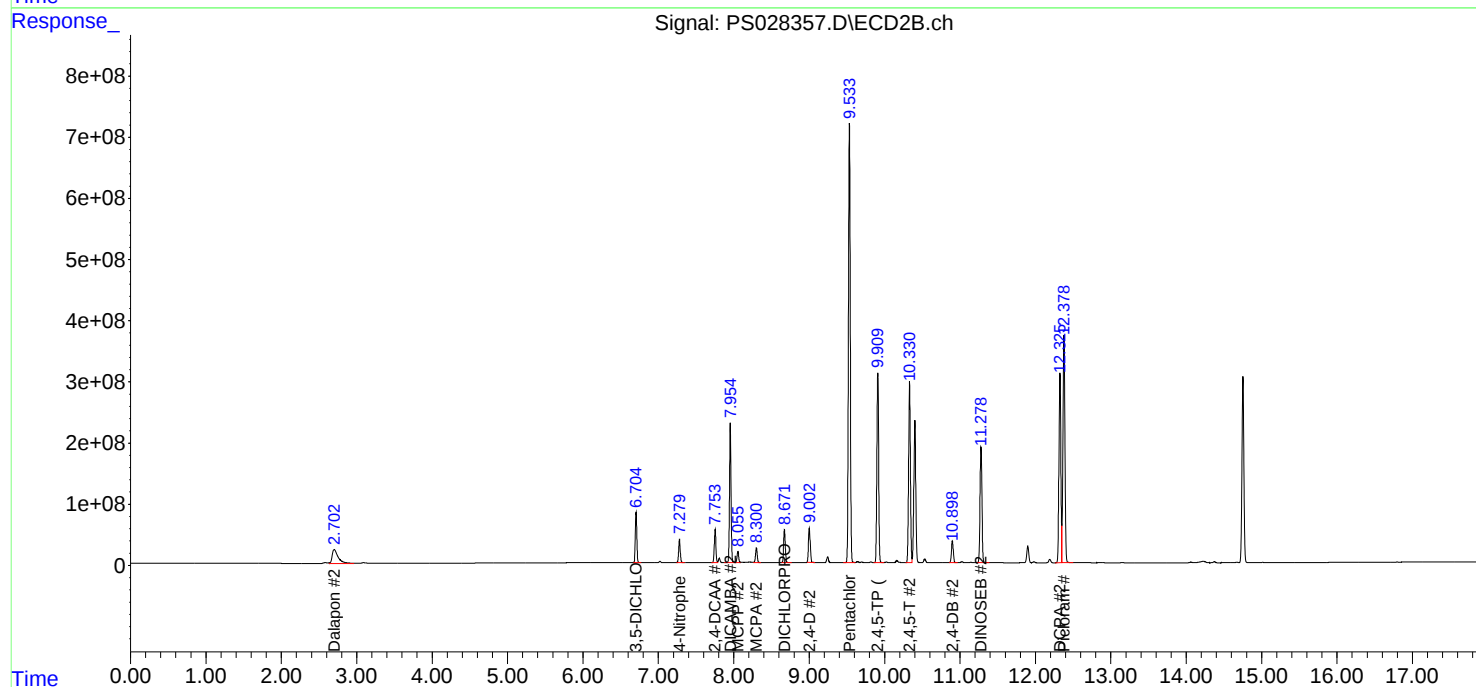
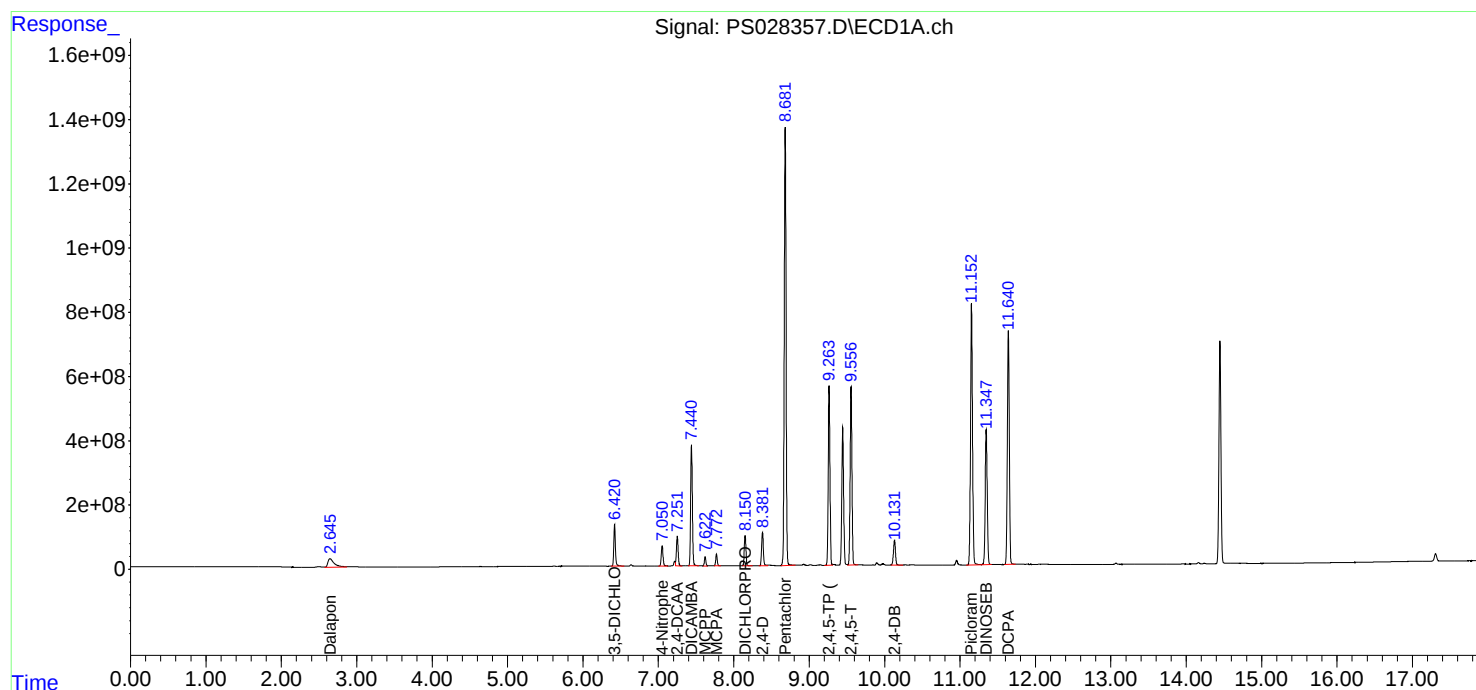
APPROVED

Reviewed By :Abdul Mirza 11/11/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 16:42:36 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 16:40:02 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\PS110924\
 Data File : PS028358.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 16:10
 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: Nov 08 16:40:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 16:40:02 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	7.250	7.755	2051.6E6	1196.4E6	750.000	750.000
Target Compounds							
1) T	Dalapon	2.648	2.706	2478.7E6	1937.8E6	682.500	682.500
2) T	3,5-DICHL...	6.419	6.707	2766.0E6	1649.9E6	697.500	697.500
3) T	4-Nitroph...	7.049	7.281	1213.7E6	685.7E6	682.500	682.500
5) T	DICAMBA	7.438	7.956	8577.4E6	5182.0E6	705.000	705.000
6) T	MCPD	7.622	8.059	596.2E6	418.8E6	70.500	70.500
7) T	MCPA	7.772	8.305	790.6E6	554.1E6	69.750	69.750
8) T	DICHLORPROP	8.148	8.673	2170.7E6	1260.9E6	705.000	705.000
9) T	2,4-D	8.379	9.005	2445.4E6	1364.4E6	705.000	705.000
10) T	Pentachlo...	8.679	9.535	33841.9E6	18123.7E6	712.500	712.500
11) T	2,4,5-TP ...	9.260	9.911	13586.0E6	7672.7E6	712.500	712.500
12) T	2,4,5-T	9.552	10.333	13911.9E6	7502.8E6	712.500	712.500
13) T	2,4-DB	10.129	10.900	2203.8E6	951.7E6	712.500	712.500
14) T	DINOSEB	11.345	11.280	11497.6E6	5116.2E6	705.000	705.000
15) T	Picloram	11.150	12.379	22736.2E6	10573.8E6	712.500	712.500
16) T	DCPA	11.637	12.326	19401.0E6	8218.0E6	720.000	720.000

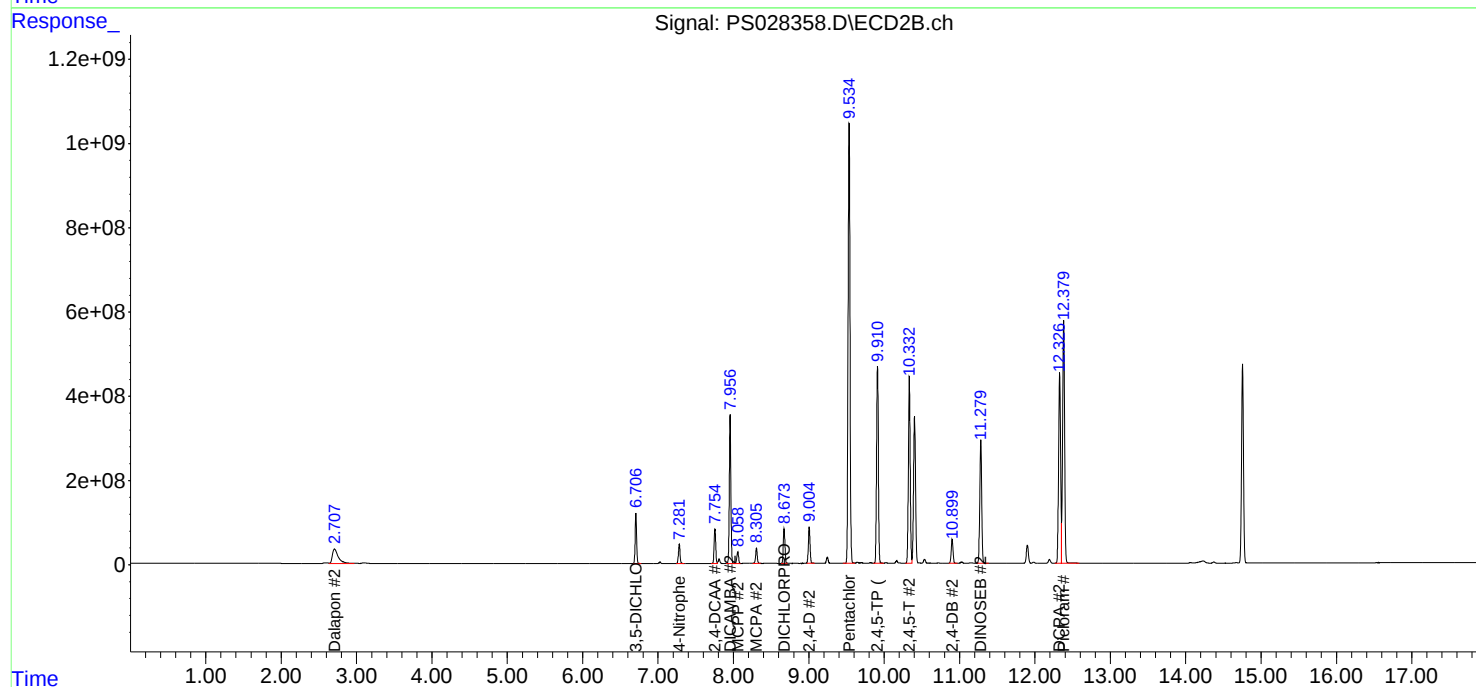
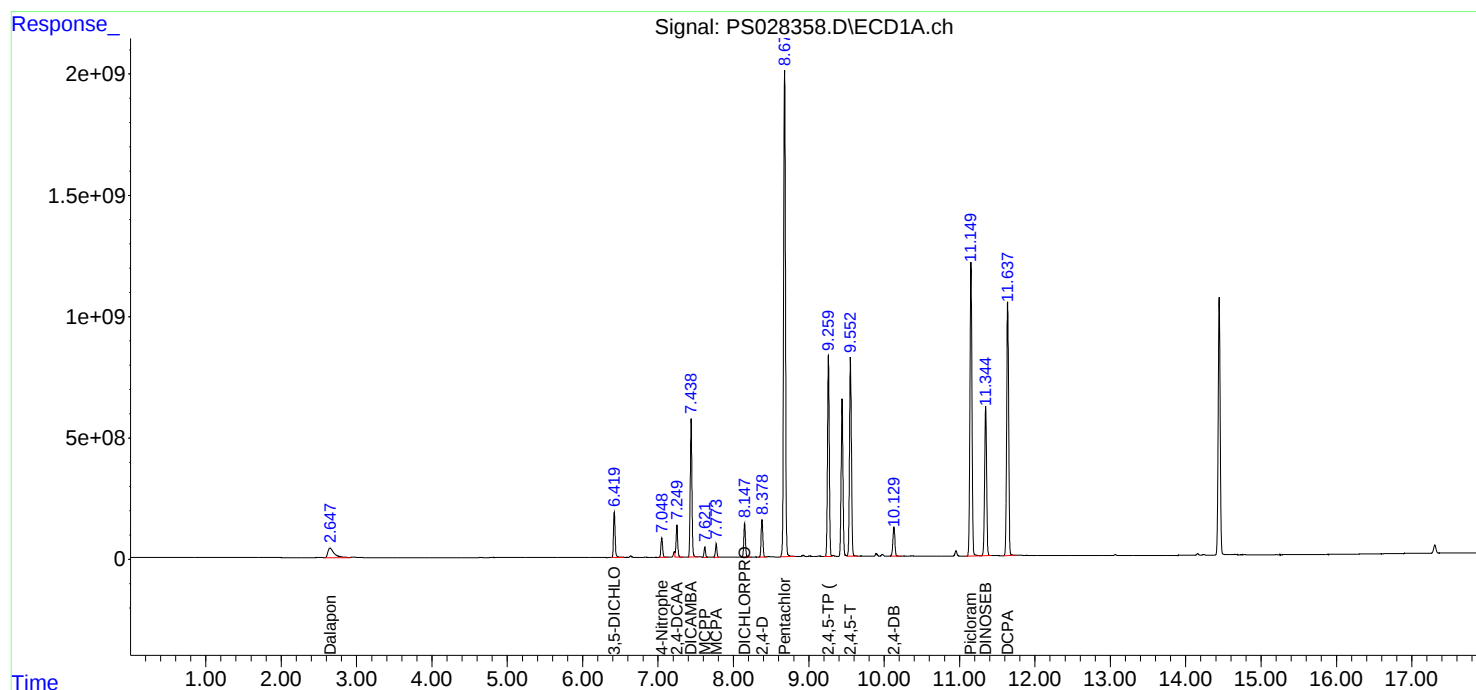
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028358.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 16:10
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: Nov 08 16:40:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 16:40:02 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\PS110924\
 Data File : PS028359.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 16:34
 Operator : AR\AJ
 Sample : HSTDICC1000
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDICC1000

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 16:51:21 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 16:51:13 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	7.250	7.756	2619.7E6	1561.0E6	927.932	971.593
Target Compounds							
1) T	Dalapon	2.648	2.707	3270.7E6	2544.1E6	920.121	894.482
2) T	3,5-DICHL...	6.419	6.707	3538.2E6	2155.4E6	865.823	902.072
3) T	4-Nitroph...	7.049	7.282	1574.2E6	890.6E6	831.961	823.047
5) T	DICAMBA	7.439	7.957	11074.0E6	6814.9E6	907.189	950.556
6) T	MCPD	7.624	8.061	799.7E6	554.7E6	99.240	94.640
7) T	MCPA	7.775	8.307	1044.3E6	728.3E6	93.295	90.284
8) T	DICHLORPROP	8.149	8.674	2780.0E6	1649.5E6	879.003	920.573
9) T	2,4-D	8.380	9.005	3134.4E6	1786.2E6	872.338	917.357
10) T	Pentachlo...	8.680	9.535	41014.3E6	23096.9E6	857.444	909.236
11) T	2,4,5-TP ...	9.260	9.912	17354.1E6	9954.9E6	897.710	929.706
12) T	2,4,5-T	9.553	10.333	17770.3E6	9733.3E6	897.521	927.738
13) T	2,4-DB	10.130	10.900	2871.3E6	1257.6E6	919.198	949.434
14) T	DINOSEB	11.345	11.280	14837.6E6	6699.0E6	899.316	925.415
15) T	Picloram	11.151	12.379	29471.0E6	13946.5E6	924.556	969.627
16) T	DCPA	11.638	12.327	24763.6E6	10644.3E6	906.118	939.422

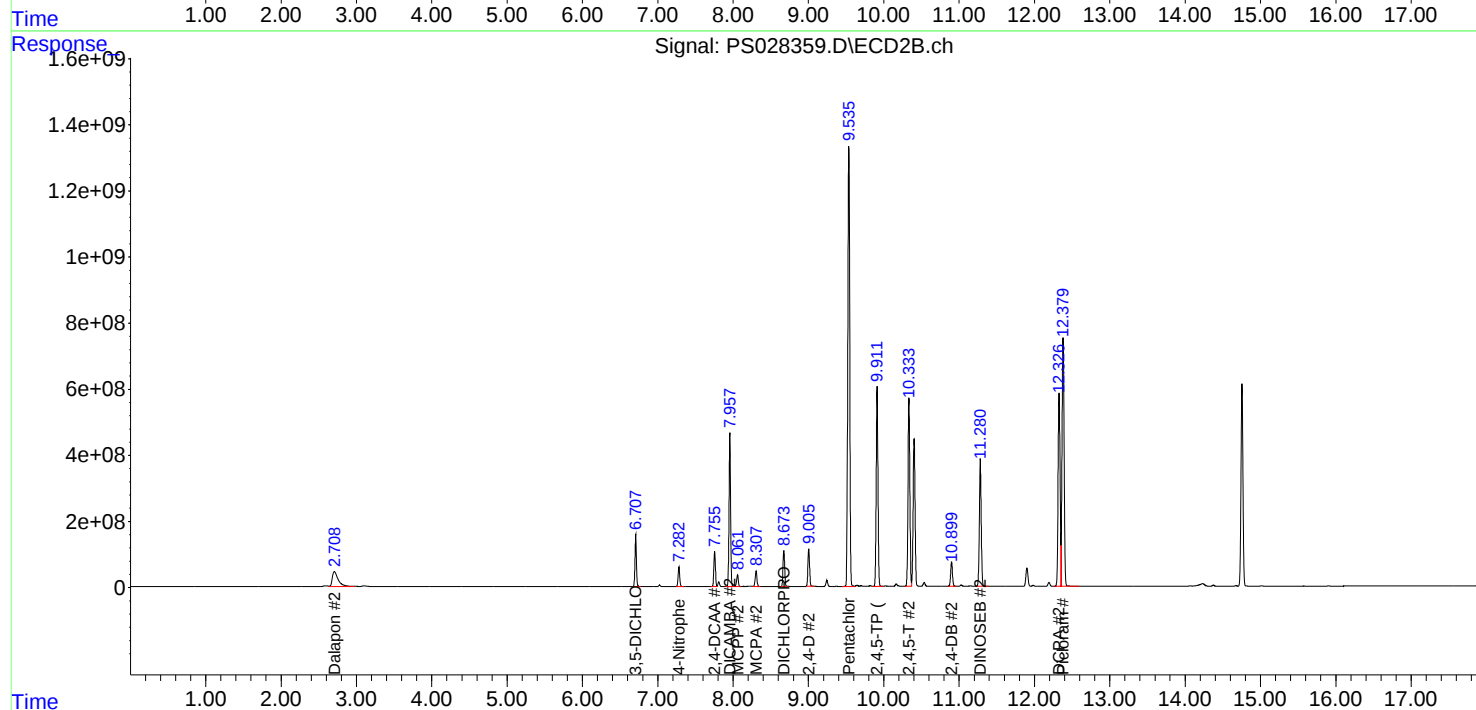
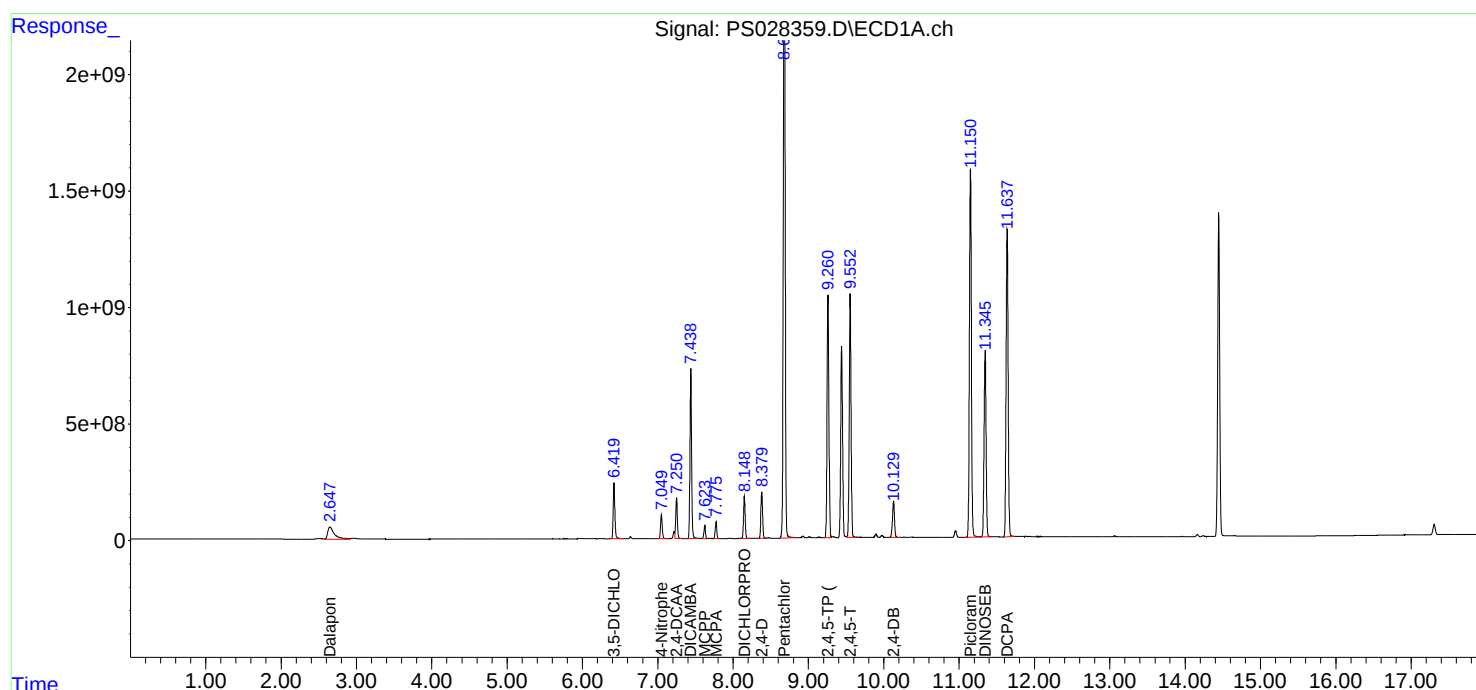
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028359.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 16:34
Operator : AR\AJ
Sample : HSTDICC1000
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDICC1000

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 16:51:21 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 16:51:13 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\PS110924\
 Data File : PS028360.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 16:58
 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: Nov 08 17:45:49 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:45:39 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	7.250	7.755	3767.0E6	2310.6E6	1364.492	1450.086
Target Compounds							
1) T	Dalapon	2.650	2.707	4944.0E6	3823.9E6	1385.601	1348.490
2) T	3,5-DICHL...	6.420	6.707	5107.0E6	3191.5E6	1276.301	1347.181
3) T	4-Nitroph...	7.049	7.281	2324.2E6	1319.3E6	1253.460	1245.836
5) T	DICAMBA	7.439	7.957	16040.0E6	10110.0E6	1332.146	1410.143
6) T	MCPD	7.628	8.064	1220.9E6	835.8E6	149.279	142.280
7) T	MCPA	7.779	8.312	1574.5E6	1084.0E6	140.433	135.369
8) T	DICHLORPROP	8.149	8.674	4014.9E6	2452.1E6	1295.283	1376.618
9) T	2,4-D	8.380	9.005	4510.1E6	2651.6E6	1283.392	1371.186
10) T	Pentachlo...	8.683	9.536	48275.3E6	32737.8E6	1071.782	1313.882
11) T	2,4,5-TP ...	9.261	9.912	24679.1E6	14436.4E6	1303.775	1362.929
12) T	2,4,5-T	9.553	10.334	25233.9E6	14128.2E6	1301.992	1361.617
13) T	2,4-DB	10.130	10.900	4217.5E6	1892.7E6	1364.499	1428.147
14) T	DINOSEB	11.345	11.280	21251.0E6	9772.8E6	1310.710	1361.620
15) T	Picloram	11.150	12.379	42075.2E6	20561.5E6	1339.720	1428.629
16) T	DCPA	11.638	12.326	35013.3E6	15448.5E6	1310.064	1378.083

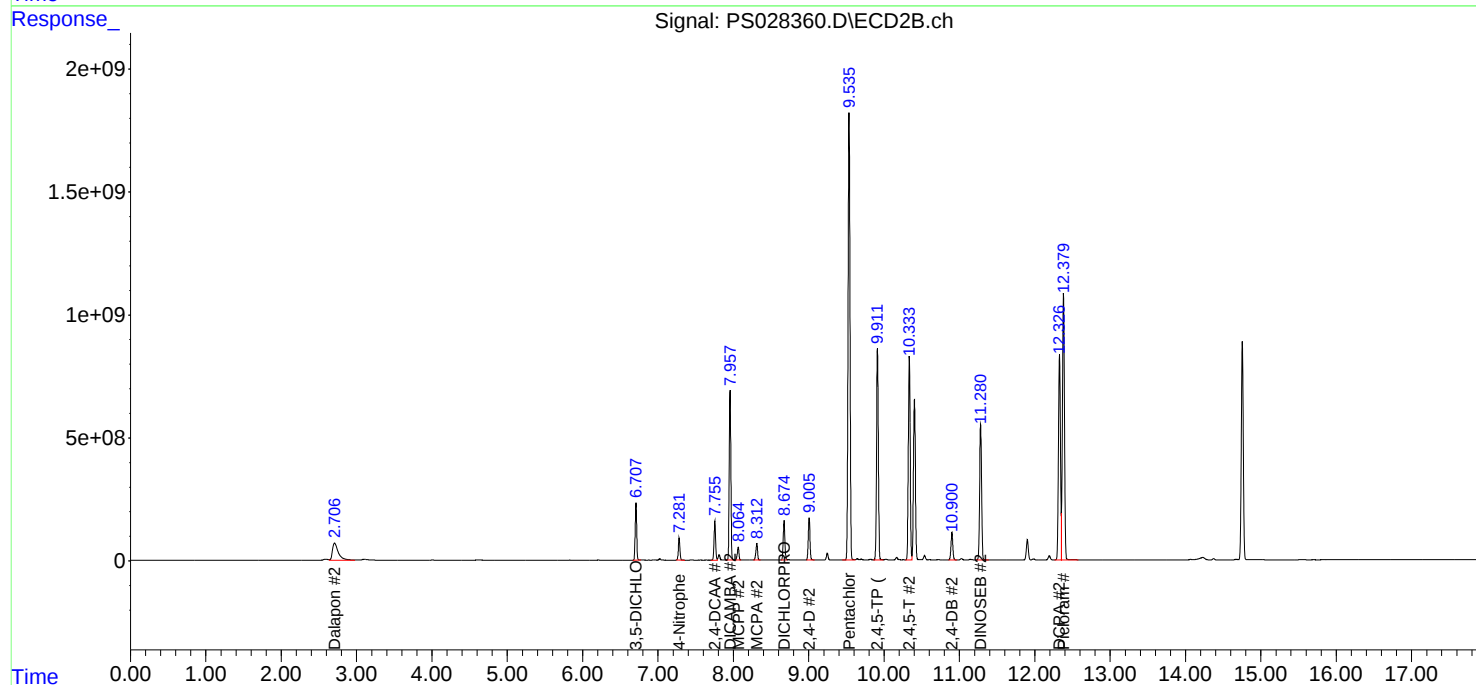
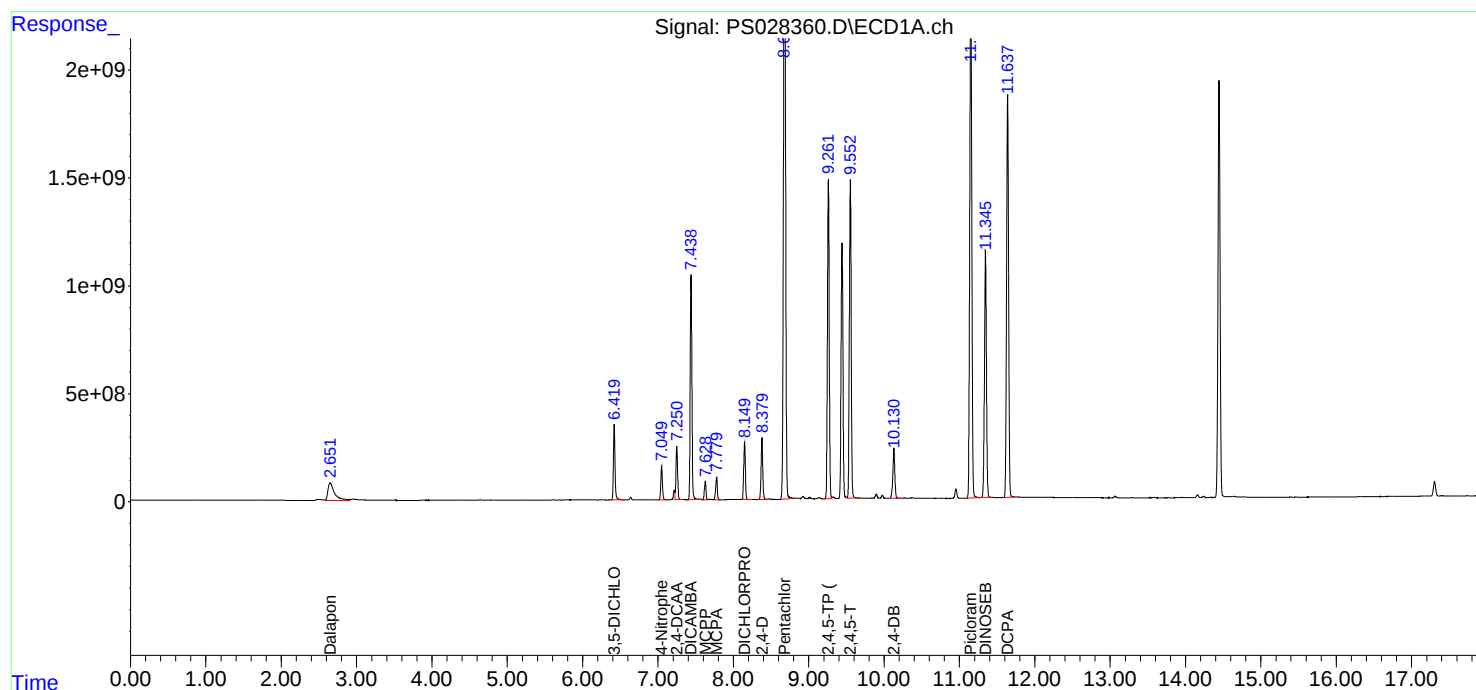
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028360.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 16:58
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: Nov 08 17:45:49 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:45:39 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\PS110924\
 Data File : PS028361.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 08 Nov 2024 17:22
 Operator : AR\AJ
 Sample : HSTDICV750
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 ICVPS110924

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 08 17:51:02 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.250	7.755	2008.0E6	1166.4E6	727.352	732.006
Target Compounds							
1) T	Dalapon	2.648	2.710	2420.5E6	1889.2E6	678.377	666.240
2) T	3,5-DICHL...	6.419	6.707	2702.1E6	1609.9E6	675.295	679.566
3) T	4-Nitroph...	7.049	7.281	1174.4E6	662.7E6	633.348	625.805
5) T	DICAMBA	7.438	7.957	8390.9E6	5041.1E6	696.873	703.125
6) T	MCPD	7.622	8.059	578.6E6	406.9E6	70.744	69.262
7) T	MCPA	7.772	8.304	766.9E6	541.7E6	68.403	67.647
8) T	DICHLORPROP	8.148	8.674	2122.7E6	1230.1E6	684.806	690.570
9) T	2,4-D	8.379	9.004	2394.4E6	1336.5E6	681.345	691.114
10) T	Pentachlo...	8.679	9.535	33172.6E6	17646.2E6	736.479	708.202
11) T	2,4,5-TP ...	9.260	9.911	13283.0E6	7469.4E6	701.729	705.181
12) T	2,4,5-T	9.553	10.332	13622.9E6	7304.6E6	702.901	703.987
13) T	2,4-DB	10.129	10.900	2161.5E6	928.2E6	699.310	700.354
14) T	DINOSEB	11.345	11.280	11126.8E6	4918.7E6	686.276	685.314
15) T	Picloram	11.150	12.378	22320.9E6	10335.0E6	710.722	718.084
16) T	DCPA	11.637	12.325	18930.3E6	7984.4E6	708.298	712.248

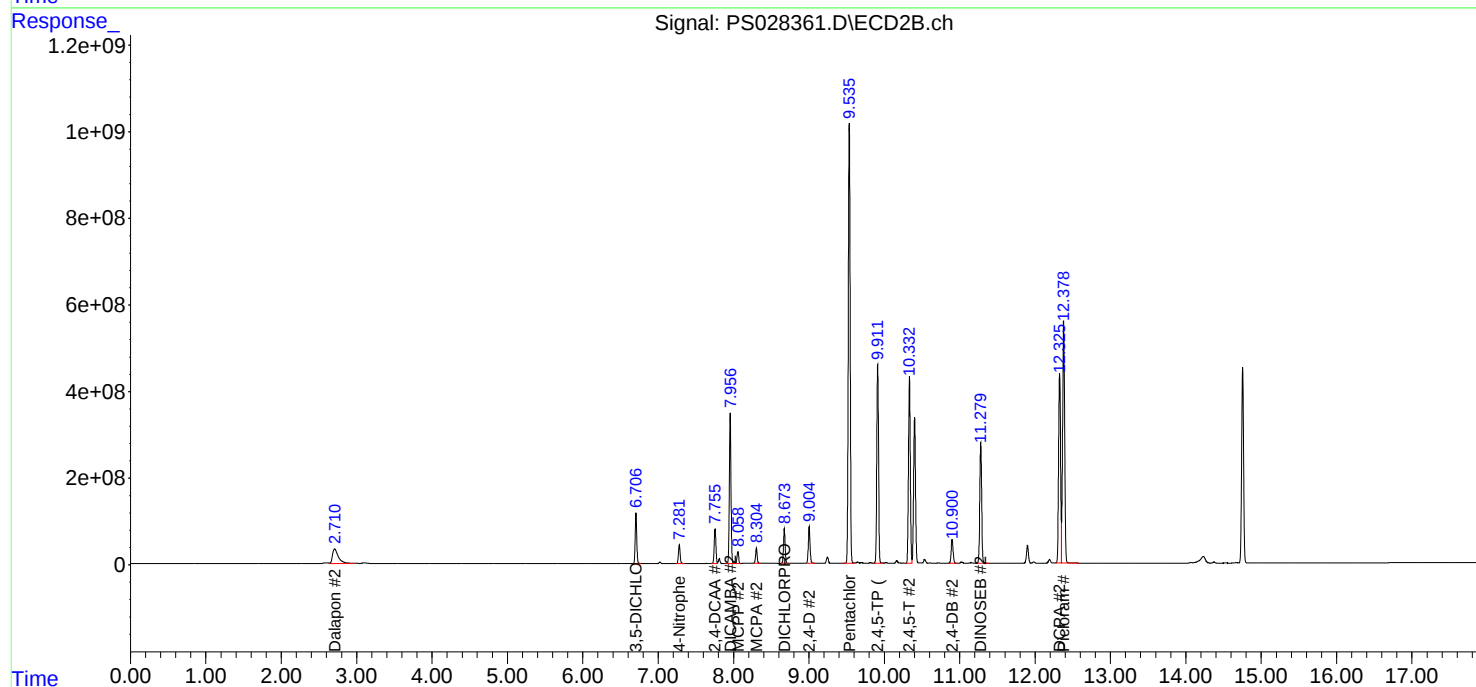
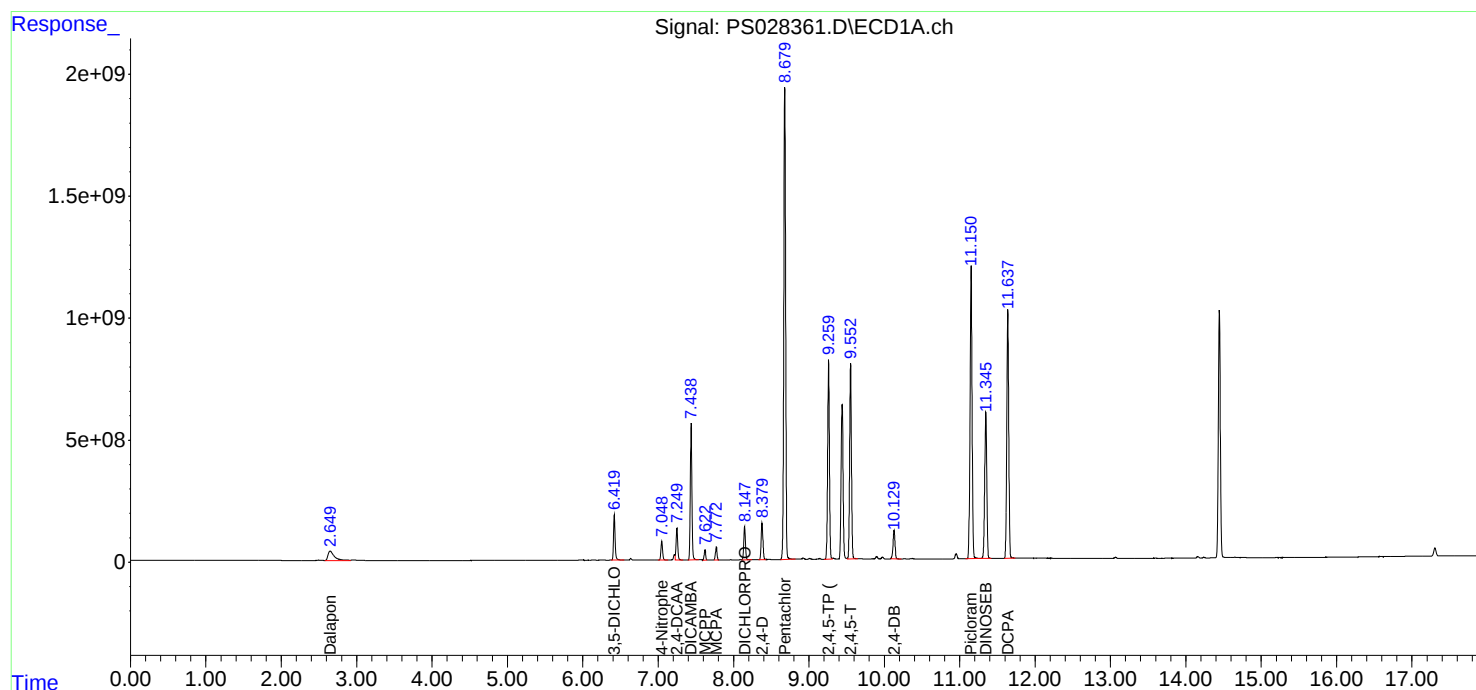
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 17:22
Operator : AR\AJ
Sample : HSTDICV750
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
ICVPS110924

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 17:51:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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





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Fax : 908 789 8922

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/05/2024 Initial Calibration Date(s): 11/05/2024 11/05/2024

Continuing Calib Time: 20:36 Initial Calibration Time(s): 17:47 19:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.46	7.46	7.36	7.56	0.01
2,4-DCAA	7.27	7.27	7.17	7.37	0.01
DICHLORPROP	8.17	8.17	8.07	8.27	0.00
2,4-D	8.40	8.40	8.30	8.50	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.15	10.15	10.05	10.25	0.00
Dinoseb	11.37	11.37	11.27	11.47	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/05/2024 Initial Calibration Date(s): 11/05/2024 11/05/2024

Continuing Calib Time: 20:36 Initial Calibration Time(s): 17:47 19:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.02	8.92	9.12	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.35	10.25	10.45	0.00
2,4-DB	10.92	10.92	10.82	11.02	0.00
Dinoseb	11.30	11.30	11.20	11.40	0.00



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CALIBRATION VERIFICATION SUMMARY
Contract: UNIO02
Lab Code: CHEM **Case No.:** P4663 **SAS No.:** P4663 **SDG NO.:** P4663
GC Column: RTX-CLP **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/05/2024 11/05/2024
Client Sample No.: CCAL01 **Date Analyzed:** 11/05/2024
Lab Sample No.: HSTDCCC750 **Data File :** PS028225.D **Time Analyzed:** 20:36

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.572	9.473	9.673	760.150	712.500	6.7
2,4,5-TP(Silvex)	9.280	9.181	9.381	761.980	712.500	6.9
2,4-D	8.397	8.298	8.498	729.750	705.000	3.5
2,4-DB	10.150	10.051	10.251	744.440	712.500	4.5
2,4-DCAA	7.265	7.166	7.366	757.410	750.000	1.0
DICAMBA	7.455	7.355	7.555	722.390	705.000	2.5
DICHLORPROP	8.166	8.066	8.266	724.670	705.000	2.8
Dinoseb	11.367	11.268	11.468	760.440	705.000	7.9



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/05/2024 11/05/2024

Client Sample No.: CCAL01 Date Analyzed: 11/05/2024

Lab Sample No.: HSTDCCC750 Data File : PS028225.D Time Analyzed: 20:36

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.348	10.248	10.448	781.700	712.500	9.7
2,4,5-TP(Silvex)	9.926	9.826	10.026	788.840	712.500	10.7
2,4-D	9.019	8.919	9.119	776.830	705.000	10.2
2,4-DB	10.916	10.815	11.015	759.470	712.500	6.6
2,4-DCAA	7.768	7.667	7.867	823.610	750.000	9.8
DICAMBA	7.970	7.869	8.069	792.350	705.000	12.4
DICHLORPROP	8.687	8.587	8.787	781.350	705.000	10.8
Dinoseb	11.296	11.196	11.396	772.370	705.000	9.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028225.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 20:36
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 10:45:06 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 10:44:06 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	7.265	7.768	1365.6E6	1288.0E6	757.415	823.613
Target Compounds							
1) T	Dalapon	2.657	2.711	2158.6E6	1980.8E6	677.583	715.711
2) T	3,5-DICHL...	6.433	6.718	1962.9E6	1795.0E6	700.378	766.103
3) T	4-Nitroph...	7.065	7.294	826.1E6	792.4E6	696.978	748.528
5) T	DICAMBA	7.455	7.970	5705.8E6	5715.1E6	722.386	792.353
6) T	MCPD	7.639	8.071	401.0E6	425.0E6	72.816	82.131
7) T	MCPA	7.789	8.318	571.3E6	572.2E6	70.429	79.779
8) T	DICHLORPROP	8.166	8.687	1309.2E6	1360.1E6	724.666	781.355
9) T	2,4-D	8.397	9.019	1479.5E6	1514.8E6	729.748	776.833
10) T	Pentachlo...	8.698	9.550	20241.8E6	20463.2E6	756.815	790.994
11) T	2,4,5-TP ...	9.280	9.926	7626.9E6	8481.9E6	761.980	788.844
12) T	2,4,5-T	9.572	10.348	7766.4E6	8362.7E6	760.147	781.698
13) T	2,4-DB	10.150	10.916	1227.6E6	1052.7E6	744.438	759.468
14) T	DINOSEB	11.367	11.296	5713.6E6	5793.8E6	760.437	772.368
15) T	Picloram	11.172	12.397	13116.7E6	12402.2E6	751.698	755.419
16) T	DCPA	11.660	12.343	9762.2E6	9363.8E6	784.125	742.936

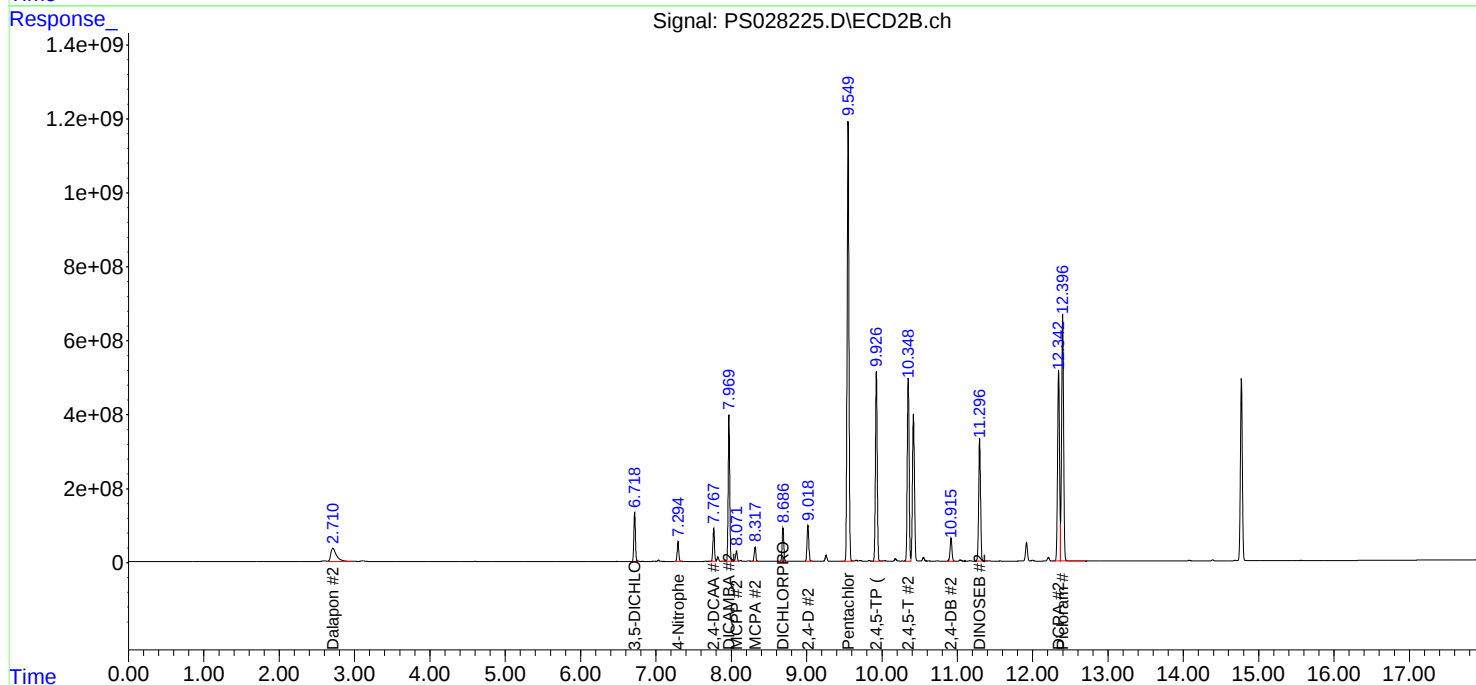
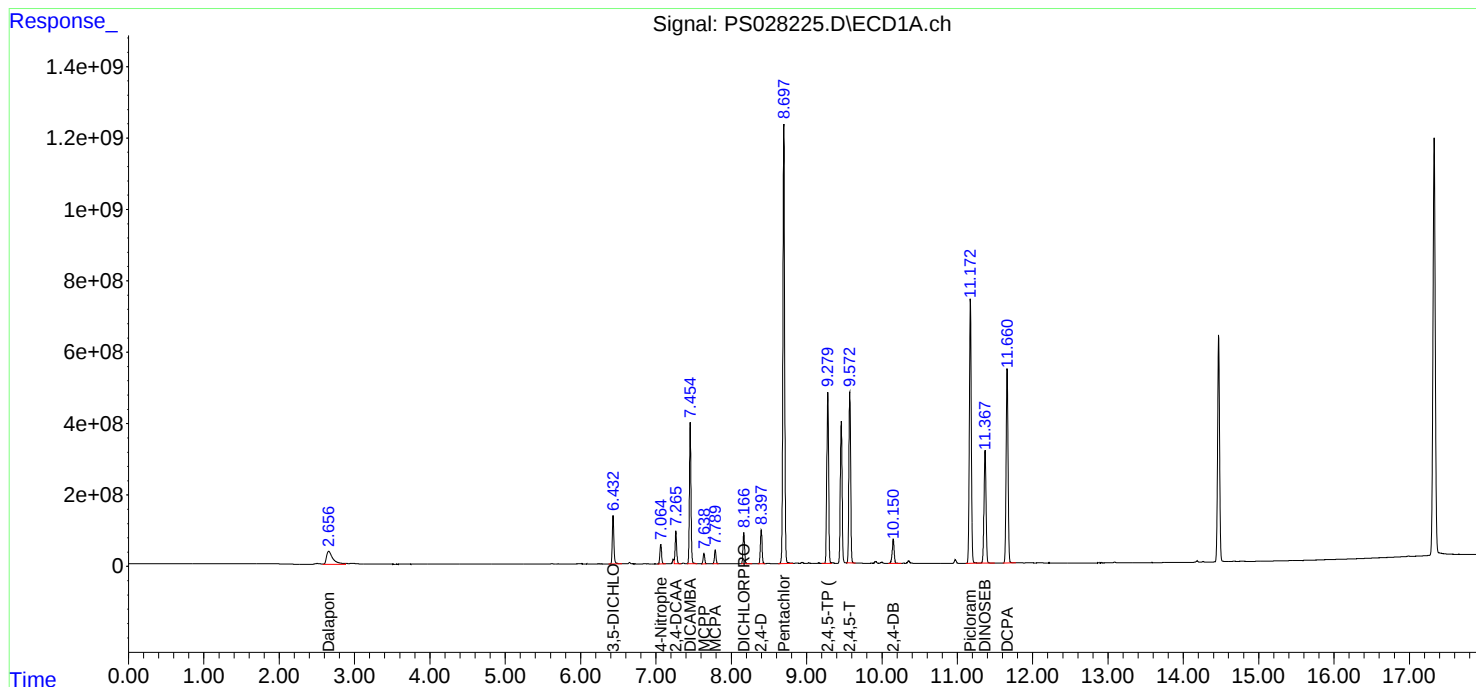
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028225.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 20:36
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 10:45:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 10:44:06 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





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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/06/2024 Initial Calibration Date(s): 11/05/2024 11/05/2024

Continuing Calib Time: 01:24 Initial Calibration Time(s): 17:47 19:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.45	7.46	7.36	7.56	0.01
2,4-DCAA	7.27	7.27	7.17	7.37	0.01
DICHLORPROP	8.17	8.17	8.07	8.27	0.00
2,4-D	8.40	8.40	8.30	8.50	0.00
2,4,5-TP(Silvex)	9.28	9.28	9.18	9.38	0.00
2,4,5-T	9.57	9.57	9.47	9.67	0.00
2,4-DB	10.15	10.15	10.05	10.25	0.00
Dinoseb	11.37	11.37	11.27	11.47	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/06/2024 Initial Calibration Date(s): 11/05/2024 11/05/2024

Continuing Calib Time: 01:24 Initial Calibration Time(s): 17:47 19:23

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.97	7.97	7.87	8.07	0.00
2,4-DCAA	7.77	7.77	7.67	7.87	0.00
DICHLORPROP	8.69	8.69	8.59	8.79	0.00
2,4-D	9.02	9.02	8.92	9.12	0.00
2,4,5-TP(Silvex)	9.93	9.93	9.83	10.03	0.00
2,4,5-T	10.35	10.35	10.25	10.45	0.00
2,4-DB	10.92	10.92	10.82	11.02	0.01
Dinoseb	11.30	11.30	11.20	11.40	0.00



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/05/2024 11/05/2024

Client Sample No.: CCAL02 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028237.D Time Analyzed: 01:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.572	9.473	9.673	925.990	712.500	30.0
2,4,5-TP(Silvex)	9.279	9.181	9.381	929.580	712.500	30.5
2,4-D	8.397	8.298	8.498	862.880	705.000	22.4
2,4-DB	10.150	10.051	10.251	933.840	712.500	31.1
2,4-DCAA	7.265	7.166	7.366	976.190	750.000	30.2
DICAMBA	7.454	7.355	7.555	836.620	705.000	18.7
DICHLORPROP	8.166	8.066	8.266	857.570	705.000	21.6
Dinoseb	11.367	11.268	11.468	1004.200	705.000	42.4



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/05/2024 11/05/2024

Client Sample No.: CCAL02 Date Analyzed: 11/06/2024

Lab Sample No.: HSTDCCC750 Data File : PS028237.D Time Analyzed: 01:24

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.347	10.248	10.448	710.290	712.500	-0.3
2,4,5-TP(Silvex)	9.925	9.826	10.026	718.680	712.500	0.9
2,4-D	9.018	8.919	9.119	726.720	705.000	3.1
2,4-DB	10.915	10.815	11.015	689.350	712.500	-3.2
2,4-DCAA	7.767	7.667	7.867	788.490	750.000	5.1
DICAMBA	7.969	7.869	8.069	753.030	705.000	6.8
DICHLORPROP	8.686	8.587	8.787	733.990	705.000	4.1
Dinoseb	11.295	11.196	11.396	701.600	705.000	-0.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
 Data File : PS028237.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 01:24
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 HSTDCCC750

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 10:45:41 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 10:44:06 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	7.265	7.767	1760.1E6	1233.1E6	976.190	788.492
Target Compounds							
1) T	Dalapon	2.656	2.711	2243.5E6	1984.0E6	704.231	716.877
2) T	3,5-DICHL...	6.432	6.717	2197.8E6	1752.2E6	784.204	747.844
3) T	4-Nitroph...	7.064	7.294	928.1E6	763.6E6	783.023	721.377
5) T	DICAMBA	7.454	7.969	6608.1E6	5431.4E6	836.617	753.026
6) T	MCPD	7.638	8.071	458.9E6	401.5E6	83.332	77.582
7) T	MCPA	7.789	8.317	634.1E6	534.4E6	78.175	74.508
8) T	DICHLORPROP	8.166	8.686	1549.3E6	1277.6E6	857.566	733.989
9) T	2,4-D	8.397	9.018	1749.4E6	1417.1E6	862.884	726.722
10) T	Pentachlo...	8.697	9.549	24027.8E6	18899.0E6	898.371	730.534
11) T	2,4,5-TP ...	9.279	9.925	9304.4E6	7727.5E6	929.584	718.683
12) T	2,4,5-T	9.572	10.347	9460.8E6	7598.7E6	925.988	710.287
13) T	2,4-DB	10.150	10.915	1540.0E6	955.5E6	933.839	689.345 #
14) T	DINOSEB	11.367	11.295	7545.1E6	5262.9E6	1004.201	701.605 #
15) T	Picloram	11.172	12.396	16421.3E6	11313.2E6	941.081	689.087 #
16) T	DCPA	11.659	12.343	12843.1E6	8431.2E6	1031.584	668.938 #

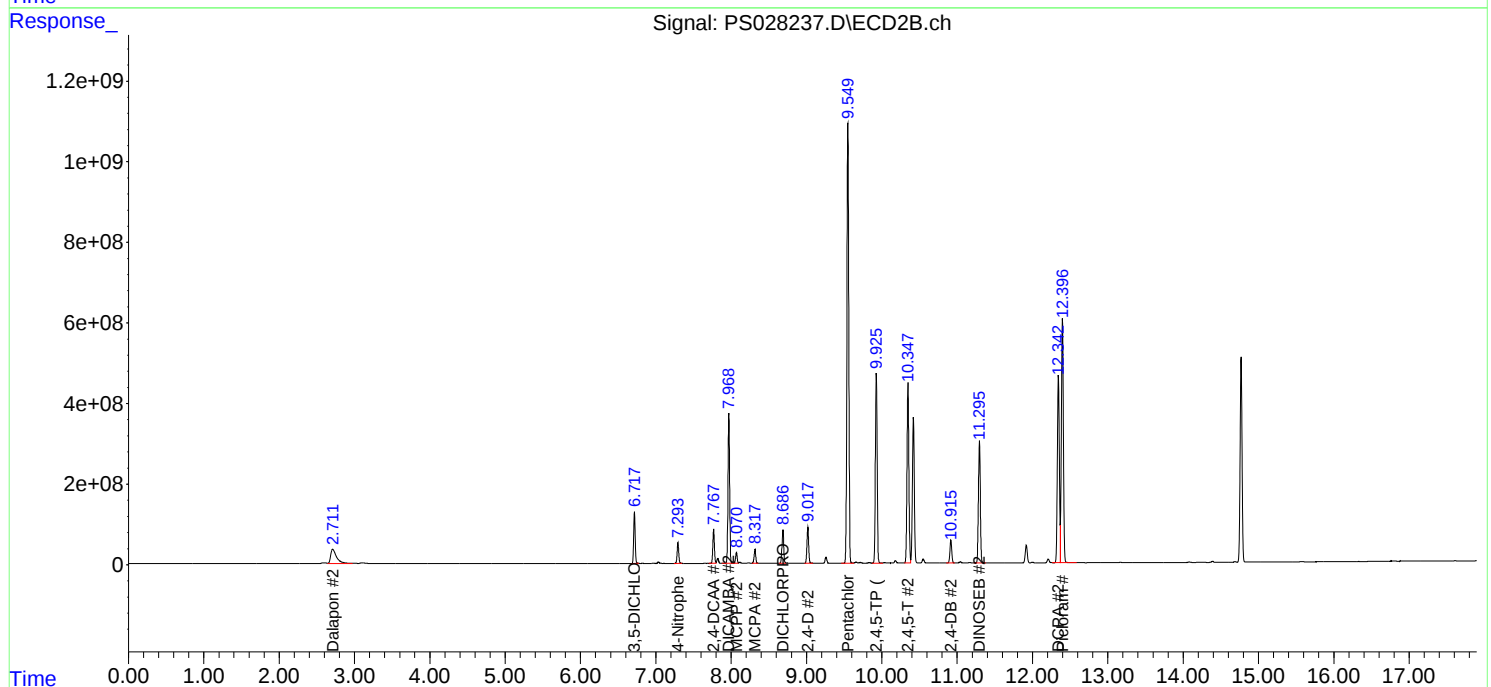
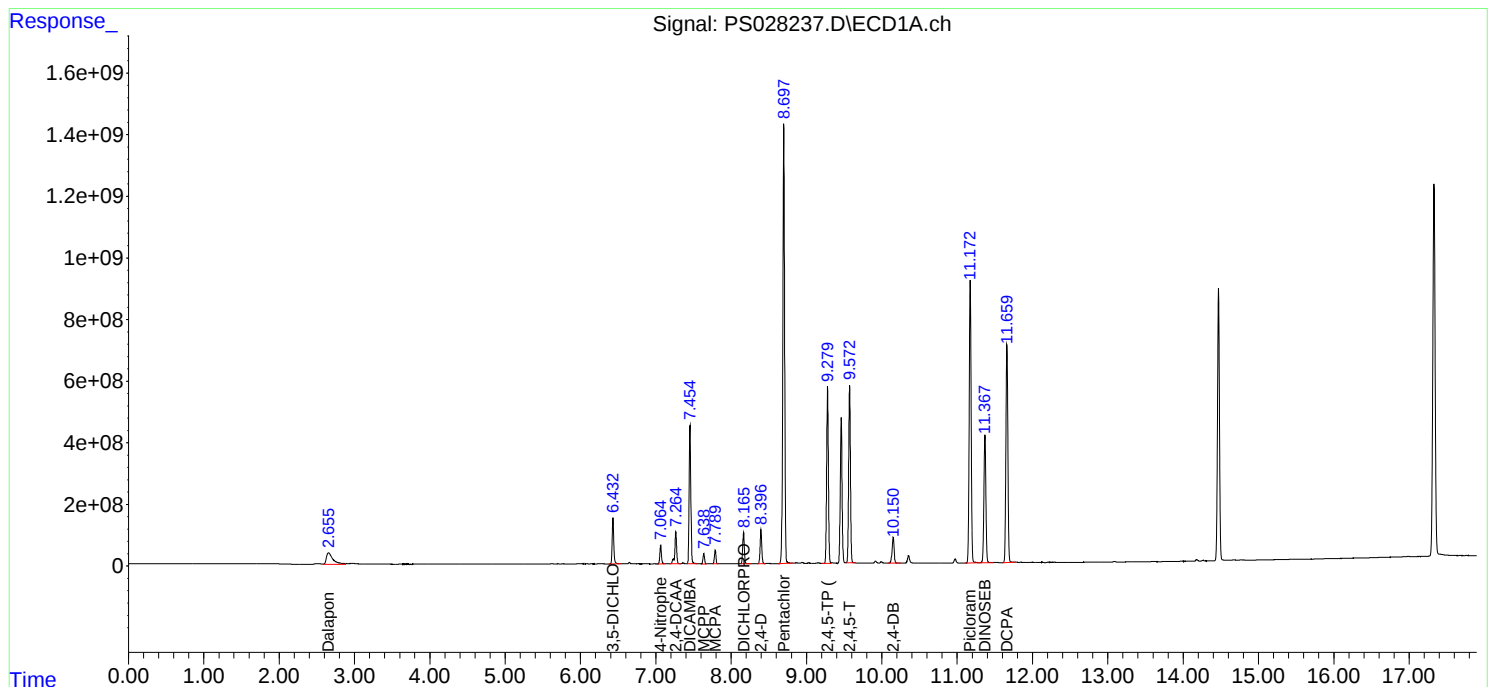
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028237.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 01:24
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
HSTDCCC750

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 10:45:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 10:44:06 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: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/11/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 16:33 Initial Calibration Time(s): 15:13 16:58

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.44	7.34	7.54	0.01
2,4-DCAA	7.25	7.25	7.15	7.35	0.00
DICHLORPROP	8.14	8.15	8.05	8.25	0.01
2,4-D	8.38	8.38	8.28	8.48	0.00
2,4,5-TP(Silvex)	9.26	9.26	9.16	9.36	0.00
2,4,5-T	9.55	9.55	9.45	9.65	0.00
2,4-DB	10.12	10.13	10.03	10.23	0.01
Dinoseb	11.34	11.35	11.25	11.45	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/11/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 16:33 Initial Calibration Time(s): 15:13 16:58

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM TO		DIFF RT
DICAMBA	7.95	7.96	7.86	8.06	0.01
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.67	8.67	8.57	8.77	0.00
2,4-D	9.00	9.01	8.91	9.11	0.01
2,4,5-TP(Silvex)	9.91	9.91	9.81	10.01	0.00
2,4,5-T	10.33	10.33	10.23	10.43	0.00
2,4-DB	10.90	10.90	10.80	11.00	0.00
Dinoseb	11.28	11.28	11.18	11.38	0.00



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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL03 Date Analyzed: 11/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS028406.D Time Analyzed: 16:33

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.547	9.452	9.652	727.150	712.500	2.1
2,4,5-TP(Silvex)	9.255	9.160	9.360	727.880	712.500	2.2
2,4-D	8.375	8.279	8.479	706.140	705.000	0.2
2,4-DB	10.124	10.029	10.229	698.650	712.500	-1.9
2,4-DCAA	7.246	7.150	7.350	749.600	750.000	-0.1
DICAMBA	7.434	7.338	7.538	723.500	705.000	2.6
DICHLORPROP	8.144	8.048	8.248	710.450	705.000	0.8
Dinoseb	11.339	11.245	11.445	715.780	705.000	1.5



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL03 Date Analyzed: 11/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS028406.D Time Analyzed: 16:33

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	10.328	10.233	10.433	676.610	712.500	-5.0
2,4,5-TP(Silvex)	9.908	9.811	10.011	676.600	712.500	-5.0
2,4-D	9.000	8.905	9.105	665.620	705.000	-5.6
2,4-DB	10.895	10.800	11.000	657.840	712.500	-7.7
2,4-DCAA	7.752	7.655	7.855	697.880	750.000	-6.9
DICAMBA	7.953	7.856	8.056	674.960	705.000	-4.3
DICHLORPROP	8.669	8.573	8.773	656.080	705.000	-6.9
Dinoseb	11.276	11.180	11.380	665.940	705.000	-5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
 Data File : PS028406.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Nov 2024 16:33
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 11 23:19:52 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.246	7.752	2069.5E6	1112.0E6	749.602	697.878
Target Compounds							
1) T	Dalapon	2.647	2.706	2488.3E6	1823.1E6	697.382	642.907
2) T	3,5-DICHL...	6.416	6.704	2797.4E6	1538.7E6	699.109	649.507
3) T	4-Nitroph...	7.045	7.278	1221.9E6	645.5E6	658.998	609.543
5) T	DICAMBA	7.434	7.953	8711.5E6	4839.2E6	723.502	674.963
6) T	MCPD	7.618	8.055	589.2E6	379.5E6	72.039	64.606
7) T	MCPA	7.768	8.301	788.6E6	509.9E6	70.336	63.682
8) T	DICHLORPROP	8.144	8.669	2202.1E6	1168.7E6	710.451	656.080
9) T	2,4-D	8.375	9.000	2481.5E6	1287.2E6	706.143	665.617m
10) T	Pentachlo...	8.675	9.531	34206.6E6	16997.6E6	759.435	682.175
11) T	2,4,5-TP ...	9.255	9.908	13778.1E6	7166.6E6	727.883	676.596
12) T	2,4,5-T	9.547	10.328	14092.9E6	7020.5E6	727.151	676.611
13) T	2,4-DB	10.124	10.895	2159.4E6	871.8E6	698.646	657.840
14) T	DINOSEB	11.339	11.276	11605.2E6	4779.7E6	715.781	665.943
15) T	Picloram	11.144	12.373	22787.5E6	9898.5E6	725.579	687.757
16) T	DCPA	11.632	12.321	19401.4E6	7625.2E6	725.928	680.209

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028406.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 16:33
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations

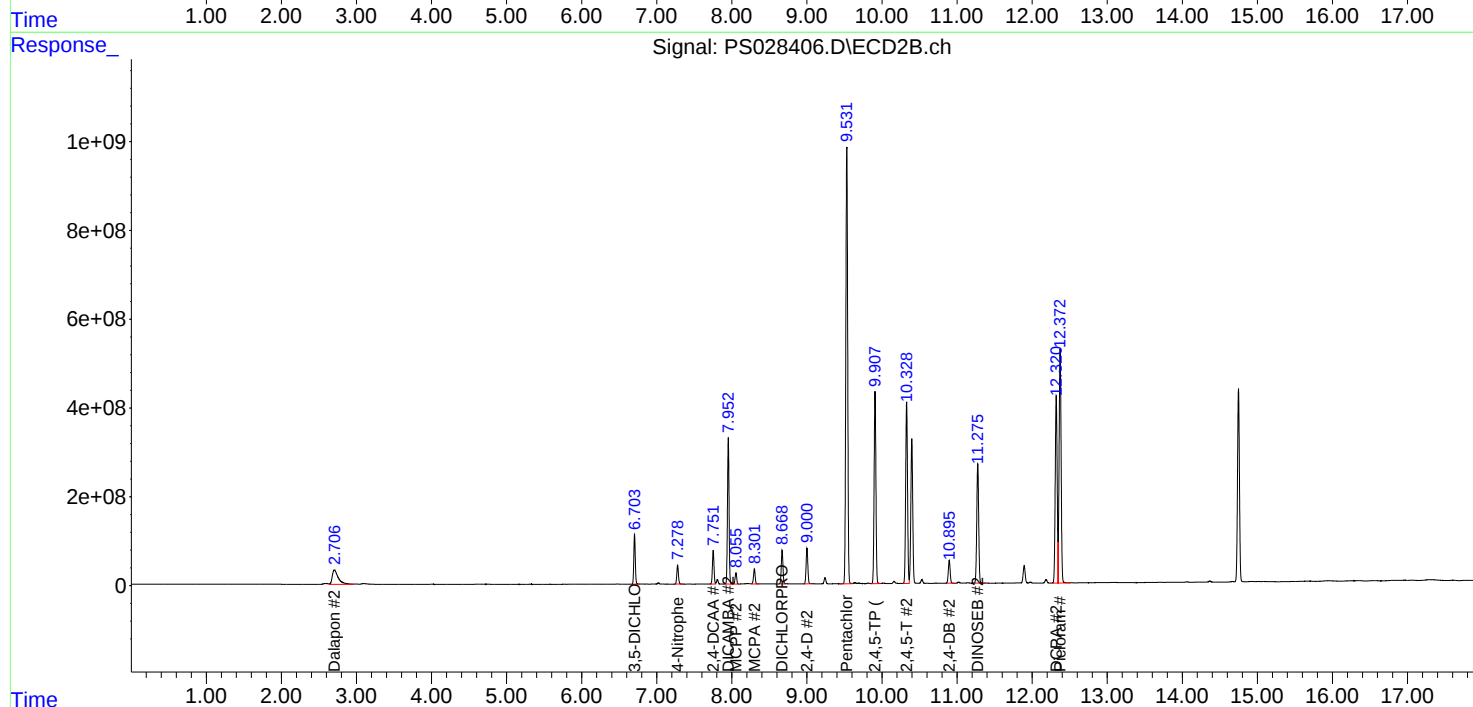
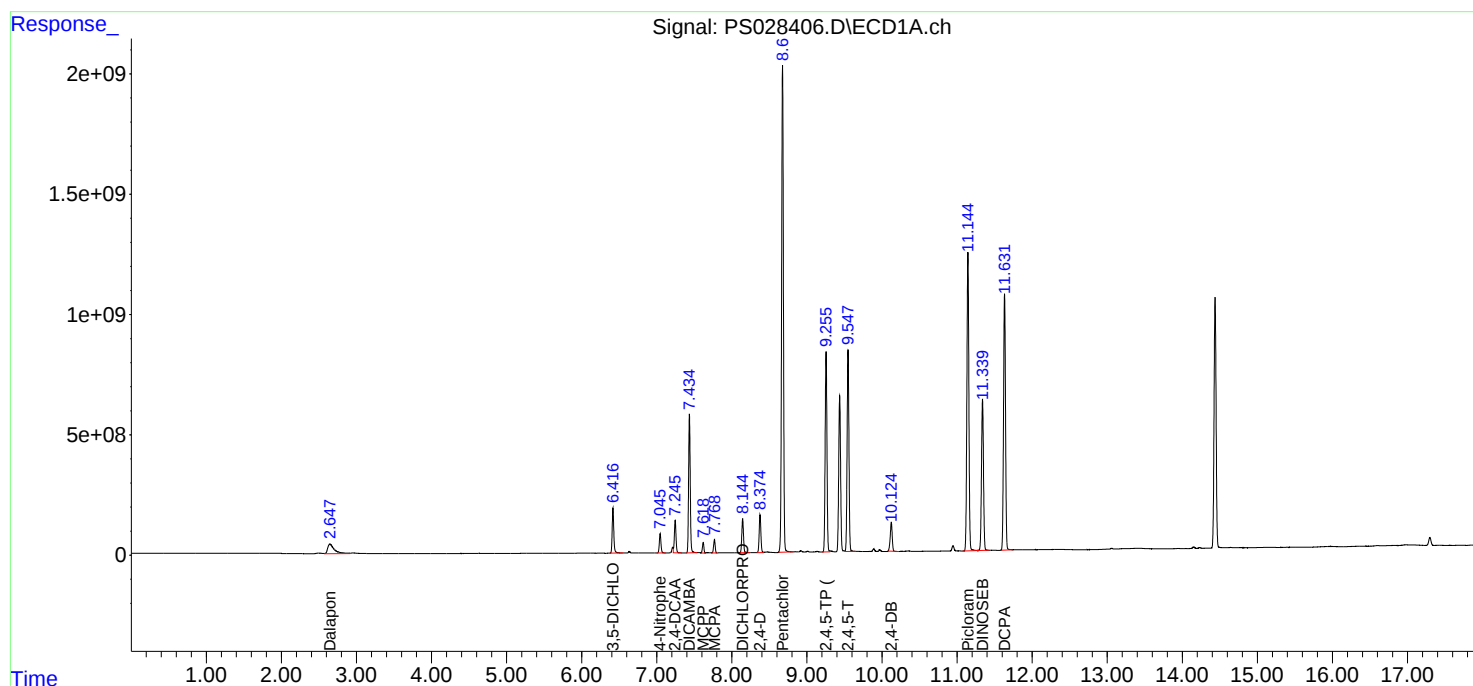
APPROVED

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:19:52 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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





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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/11/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 21:22 Initial Calibration Time(s): 15:13 16:58

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.43	7.44	7.34	7.54	0.01
2,4-DCAA	7.25	7.25	7.15	7.35	0.01
DICHLORPROP	8.14	8.15	8.05	8.25	0.01
2,4-D	8.37	8.38	8.28	8.48	0.01
2,4,5-TP(Silvex)	9.25	9.26	9.16	9.36	0.01
2,4,5-T	9.55	9.55	9.45	9.65	0.00
2,4-DB	10.12	10.13	10.03	10.23	0.01
Dinoseb	11.34	11.35	11.25	11.45	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

Continuing Calib Date: 11/11/2024 Initial Calibration Date(s): 11/08/2024 11/08/2024

Continuing Calib Time: 21:22 Initial Calibration Time(s): 15:13 16:58

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

COMPOUND	CCAL RT	AVG RT	RT WINDOW		DIFF RT
			FROM	TO	
DICAMBA	7.95	7.96	7.86	8.06	0.01
2,4-DCAA	7.75	7.76	7.66	7.86	0.01
DICHLORPROP	8.67	8.67	8.57	8.77	0.00
2,4-D	9.00	9.01	8.91	9.11	0.01
2,4,5-TP(Silvex)	9.91	9.91	9.81	10.01	0.00
2,4,5-T	10.33	10.33	10.23	10.43	0.00
2,4-DB	10.89	10.90	10.80	11.00	0.01
Dinoseb	11.27	11.28	11.18	11.38	0.01



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

CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL04 Date Analyzed: 11/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS028418.D Time Analyzed: 21:22

COMPOUND	RT	RT WINDOW		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
		FROM	TO			
2,4,5-T	9.547	9.452	9.652	736.420	712.500	3.4
2,4,5-TP(Silvex)	9.254	9.160	9.360	736.480	712.500	3.4
2,4-D	8.374	8.279	8.479	714.440	705.000	1.3
2,4-DB	10.123	10.029	10.229	702.180	712.500	-1.4
2,4-DCAA	7.245	7.150	7.350	742.700	750.000	-1.0
DICAMBA	7.434	7.338	7.538	731.350	705.000	3.7
DICHLORPROP	8.143	8.048	8.248	717.160	705.000	1.7
Dinoseb	11.337	11.245	11.445	726.290	705.000	3.0



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CALIBRATION VERIFICATION SUMMARY

Contract: UNIO02

Lab Code: CHEM Case No.: P4663 SAS No.: P4663 SDG NO.: P4663

GC Column: RTX-CLP2 ID: 0.32 (mm) Initi. Calib. Date(s): 11/08/2024 11/08/2024

Client Sample No.: CCAL04 Date Analyzed: 11/11/2024

Lab Sample No.: HSTDCCC750 Data File : PS028418.D Time Analyzed: 21:22

COMPOUND	RT	RT WINDOW FROM TO		CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
2,4,5-T	10.327	10.233	10.433	678.220	712.500	-4.8
2,4,5-TP(Silvex)	9.906	9.811	10.011	677.390	712.500	-4.9
2,4-D	9.000	8.905	9.105	636.580	705.000	-9.7
2,4-DB	10.894	10.800	11.000	666.670	712.500	-6.4
2,4-DCAA	7.751	7.655	7.855	698.440	750.000	-6.9
DICAMBA	7.952	7.856	8.056	673.550	705.000	-4.5
DICHLORPROP	8.669	8.573	8.773	656.760	705.000	-6.8
Dinoseb	11.274	11.180	11.380	666.370	705.000	-5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
 Data File : PS028418.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Nov 2024 21:22
 Operator : AR\AJ
 Sample : HSTDCCC750
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 11 23:31:54 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.245	7.751	2050.4E6	1112.9E6	742.698m	698.435
Target Compounds							
1) T	Dalapon	2.644	2.706	2485.6E6	1813.5E6	696.622	639.540
2) T	3,5-DICHL...	6.415	6.703	2825.6E6	1541.2E6	706.167	650.543
3) T	4-Nitroph...	7.044	7.277	1239.1E6	648.3E6	668.282	612.211
5) T	DICAMBA	7.434	7.952	8806.0E6	4829.0E6	731.346	673.551
6) T	MCP	7.617	8.055	589.3E6	377.9E6	72.055	64.323
7) T	MCPA	7.768	8.301	800.1E6	508.3E6	71.358	63.479
8) T	DICHLORPROP	8.143	8.669	2222.9E6	1169.9E6	717.157	656.761
9) T	2,4-D	8.374	9.000	2510.7E6	1231.0E6	714.442	636.581
10) T	Pentachlo...	8.674	9.530	34642.5E6	17101.4E6	769.114	686.339
11) T	2,4,5-TP ...	9.254	9.906	13940.8E6	7175.1E6	736.483	677.393
12) T	2,4,5-T	9.547	10.327	14272.5E6	7037.2E6	736.417	678.221
13) T	2,4-DB	10.123	10.894	2170.4E6	883.5E6	702.182	666.669m
14) T	DINOSEB	11.337	11.274	11775.6E6	4782.8E6	726.287	666.368
15) T	Picloram	11.142	12.372	22758.7E6	9752.8E6	724.660	677.631
16) T	DCPA	11.630	12.319	19711.0E6	7665.4E6	737.512	683.795

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028418.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 21:22
Operator : AR\AJ
Sample : HSTDCCC750
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

HSTDCCC750

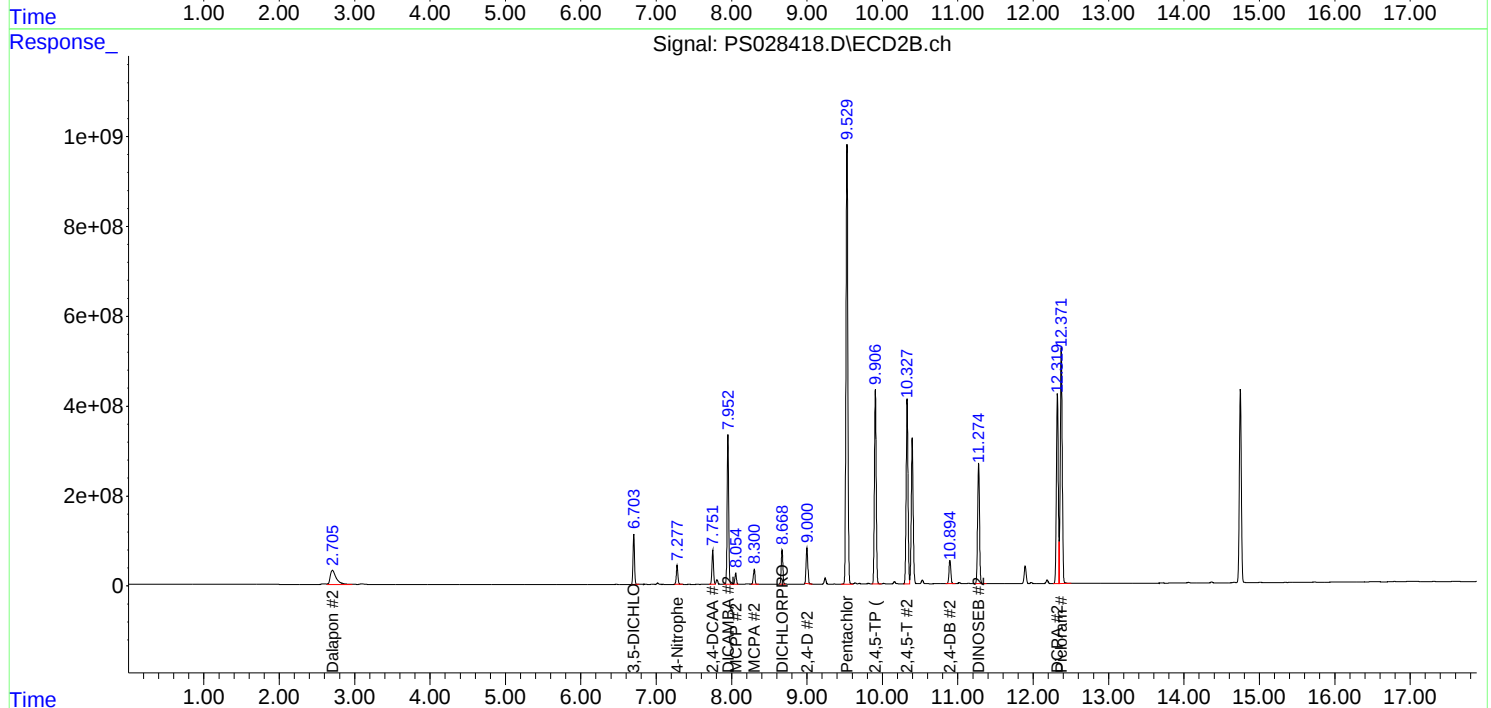
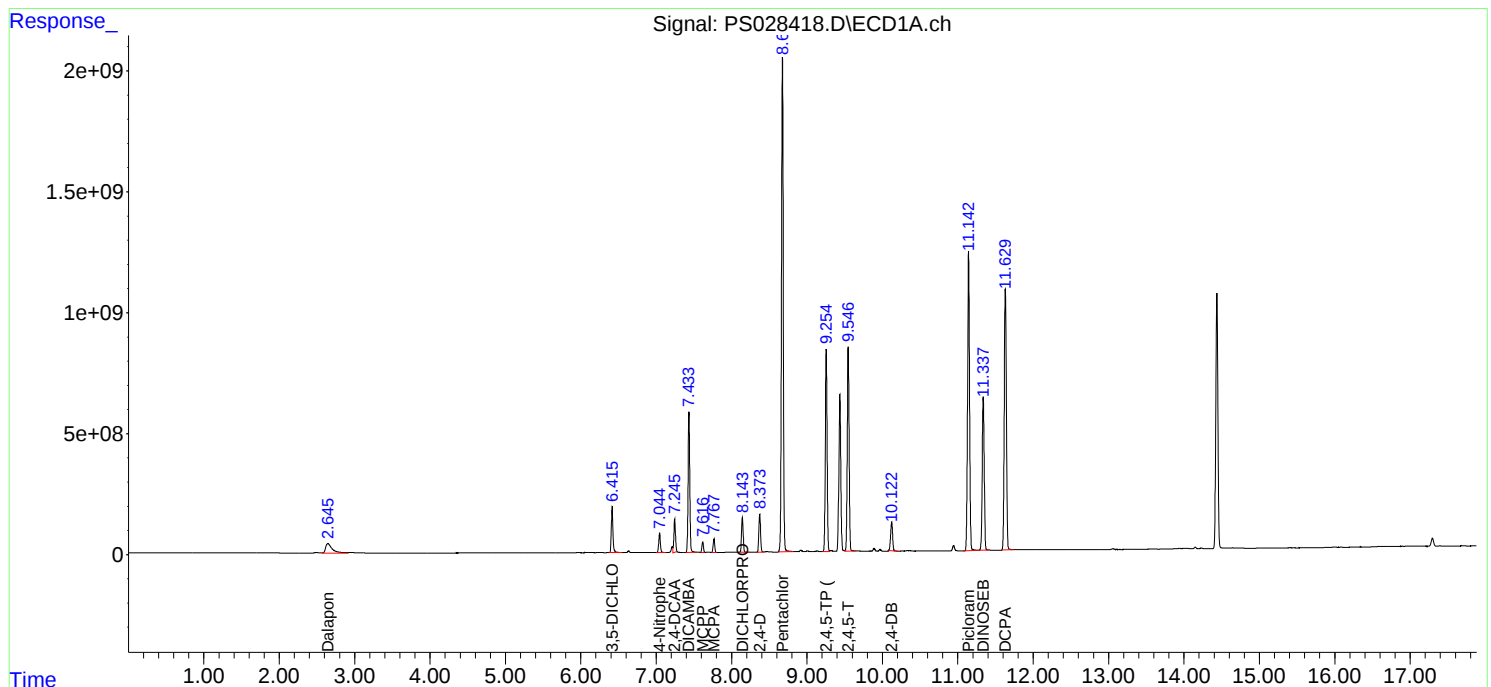
Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:31:54 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

Instrument ID: ECD_S

GC Column: RTX-CLP

ID: 0.32 (mm)

Inst. Calib. Date(s): 11/05/2024

11/05/2024

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 #
IBLK	IBLK	11/05/2024	17:23	PS028217.D	7.27	0.00
HSTDICC200	HSTDICC200	11/05/2024	17:47	PS028218.D	7.27	0.00
HSTDICC500	HSTDICC500	11/05/2024	18:11	PS028219.D	7.27	0.00
HSTDICC750	HSTDICC750	11/05/2024	18:36	PS028220.D	7.27	0.00
HSTDICC1000	HSTDICC1000	11/05/2024	18:59	PS028221.D	7.27	0.00
HSTDICC1500	HSTDICC1500	11/05/2024	19:23	PS028222.D	7.27	0.00
IBLK	IBLK	11/05/2024	20:12	PS028224.D	7.27	0.00
HSTDCCC750	HSTDCCC750	11/05/2024	20:36	PS028225.D	7.27	0.00
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/05/2024	21:00	PS028226.D	7.27	0.00
RES-BUILDING-PAD-NO-11	P4663-04	11/05/2024	21:24	PS028227.D	7.27	0.00
RES-BUILDING-PAD-NO-3	P4663-06	11/05/2024	21:48	PS028228.D	7.27	0.00
RES-BUILDING-PAD-NO-2	P4663-08	11/05/2024	22:12	PS028229.D	7.27	0.00
PB164641BL	PB164641BL	11/05/2024	22:36	PS028230.D	7.26	0.00
PB164641BS	PB164641BS	11/05/2024	23:00	PS028231.D	7.27	0.00
IBLK	IBLK	11/06/2024	01:00	PS028236.D	7.26	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	01:24	PS028237.D	7.27	0.00
IBLK	IBLK	11/08/2024	14:25	PS028355.D	7.25	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.25	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.25	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.25	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.25	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.25	0.00
IBLK	IBLK	11/11/2024	16:09	PS028405.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	16:33	PS028406.D	7.25	0.00
CC0R8MS	P4602-44MS	11/11/2024	17:21	PS028408.D	7.25	0.00
CC0R8MSD	P4602-45MSD	11/11/2024	17:45	PS028409.D	7.24	0.00
IBLK	IBLK	11/11/2024	20:58	PS028417.D	7.25	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	21:22	PS028418.D	7.25	0.00

Analytical Sequence

Client: Union Paving & Construction Company

SDG No.: P4663

Project: Rt. 10 Whippany

Instrument ID: ECD_S

GC Column: RTX-CLP2

ID: 0.32 (mm)

Inst. Calib. Date(s): 11/05/2024

11/05/2024

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 #
IBLK	IBLK	11/05/2024	17:23	PS028217.D	7.77	0.00
HSTDICC200	HSTDICC200	11/05/2024	17:47	PS028218.D	7.77	0.00
HSTDICC500	HSTDICC500	11/05/2024	18:11	PS028219.D	7.77	0.00
HSTDICC750	HSTDICC750	11/05/2024	18:36	PS028220.D	7.77	0.00
HSTDICC1000	HSTDICC1000	11/05/2024	18:59	PS028221.D	7.77	0.00
HSTDICC1500	HSTDICC1500	11/05/2024	19:23	PS028222.D	7.77	0.00
IBLK	IBLK	11/05/2024	20:12	PS028224.D	7.77	0.00
HSTDCCC750	HSTDCCC750	11/05/2024	20:36	PS028225.D	7.77	0.00
TENNANT-PAD-2-3-STOCKPILE	P4663-02	11/05/2024	21:00	PS028226.D	7.77	0.00
RES-BUILDING-PAD-NO-11	P4663-04	11/05/2024	21:24	PS028227.D	7.77	0.00
RES-BUILDING-PAD-NO-3	P4663-06	11/05/2024	21:48	PS028228.D	7.77	0.00
RES-BUILDING-PAD-NO-2	P4663-08	11/05/2024	22:12	PS028229.D	7.77	0.00
PB164641BL	PB164641BL	11/05/2024	22:36	PS028230.D	7.77	0.00
PB164641BS	PB164641BS	11/05/2024	23:00	PS028231.D	7.77	0.00
IBLK	IBLK	11/06/2024	01:00	PS028236.D	7.77	0.00
HSTDCCC750	HSTDCCC750	11/06/2024	01:24	PS028237.D	7.77	0.00
IBLK	IBLK	11/08/2024	14:25	PS028355.D	7.76	0.00
HSTDICC200	HSTDICC200	11/08/2024	15:13	PS028356.D	7.76	0.00
HSTDICC500	HSTDICC500	11/08/2024	15:46	PS028357.D	7.75	0.00
HSTDICC750	HSTDICC750	11/08/2024	16:10	PS028358.D	7.76	0.00
HSTDICC1000	HSTDICC1000	11/08/2024	16:34	PS028359.D	7.76	0.00
HSTDICC1500	HSTDICC1500	11/08/2024	16:58	PS028360.D	7.76	0.00
IBLK	IBLK	11/11/2024	16:09	PS028405.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	16:33	PS028406.D	7.75	0.00
CC0R8MS	P4602-44MS	11/11/2024	17:21	PS028408.D	7.75	0.00
CC0R8MSD	P4602-45MSD	11/11/2024	17:45	PS028409.D	7.75	0.00
IBLK	IBLK	11/11/2024	20:58	PS028417.D	7.75	0.00
HSTDCCC750	HSTDCCC750	11/11/2024	21:22	PS028418.D	7.75	0.00

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

CC0R8MS

Contract: UNIO02

Lab Code: CHEM

Case No.: P4663

SAS No.: P4663

SDG NO.: P4663

Lab Sample ID: P4602-44MS

Date(s) Analyzed: 11/11/2024

11/11/2024

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	8.14	8.09	8.19	47.0	7.5
	2	8.67	8.62	8.72	43.6	
2,4-D	1	8.38	8.33	8.43	90.4	18.8
	2	9.00	8.95	9.05	74.9	
2,4,5-TP(Silvex)	1	9.26	9.21	9.31	28.0	5.9
	2	9.91	9.86	9.96	29.7	
2,4,5-T	1	9.55	9.50	9.60	47.0	5
	2	10.33	10.28	10.38	49.4	
2,4-DB	1	10.12	10.07	10.17	35.5	38.6
	2	10.89	10.84	10.94	52.5	
DICAMBA	1	7.43	7.38	7.48	78.0	8.1
	2	7.95	7.90	8.00	71.9	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

CC0R8MSD

Contract: UNIO02

Lab Code: CHEM **Case No.:** P4663

SAS No.: P4663

SDG NO.: P4663

Lab Sample ID: P4602-45MSD

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

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		
DICAMBA	1	7.43	7.38	7.48	78.6	8.2
	2	7.95	7.90	8.00	72.4	
DICHLORPROP	1	8.14	8.09	8.19	47.4	7
	2	8.67	8.62	8.72	44.2	
2,4-D	1	8.37	8.32	8.42	91.1	19.1
	2	9.00	8.95	9.05	75.2	
2,4,5-TP(Silvex)	1	9.26	9.21	9.31	28.1	6.2
	2	9.91	9.86	9.96	29.9	
2,4,5-T	1	9.55	9.50	9.60	47.3	5.5
	2	10.33	10.28	10.38	50.0	
2,4-DB	1	10.12	10.07	10.17	34.9	40.3
	2	10.89	10.84	10.94	52.5	

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB164641BS

Contract: UNIO02

Lab Code: CHEM

Case No.: P4663

SAS No.: P4663

SDG NO.: P4663

Lab Sample ID: PB164641BS

Date(s) Analyzed: 11/05/2024

11/05/2024

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	8.17	8.12	8.22	185	2.7
	2	8.69	8.64	8.74	180	
2,4-D	1	8.40	8.35	8.45	186	5.5
	2	9.02	8.97	9.07	176	
2,4,5-TP(Silvex)	1	9.28	9.23	9.33	194	8.6
	2	9.93	9.88	9.98	178	
2,4,5-T	1	9.57	9.52	9.62	193	9.8
	2	10.35	10.30	10.40	175	
2,4-DB	1	10.15	10.10	10.20	188	13.6
	2	10.92	10.87	10.97	164	
Dinoseb	1	11.37	11.32	11.42	197	15.9
	2	11.30	11.25	11.35	168	
DICAMBA	1	7.46	7.41	7.51	179	1.1
	2	7.97	7.92	8.02	181	



QC SAMPLE DATA

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164641BL	SDG No.:	P4663
Lab Sample ID:	PB164641BL	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
PS028230.D	1	11/04/24 09:51	11/05/24 22:36	PB164641

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	572		70 (10) - 130 (141)	114%	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\PS110524\
 Data File : PS028230.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 22:36
 Operator : AR\AJ
 Sample : PB164641BL
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 PB164641BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:37:40 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.264	7.767	1032.0E6	888.3E6	572.342m	567.990m
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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\PS110524\
Data File : PS028230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 22:36
Operator : AR\AJ
Sample : PB164641BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

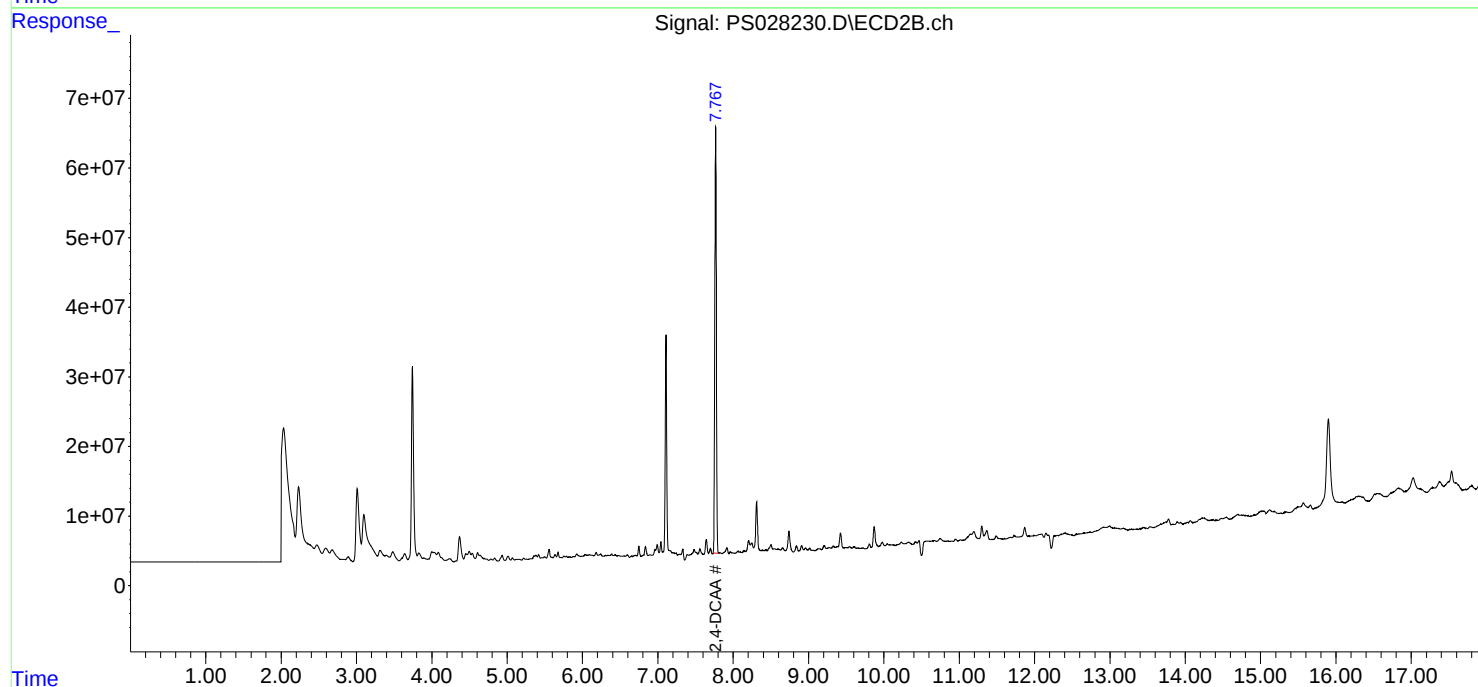
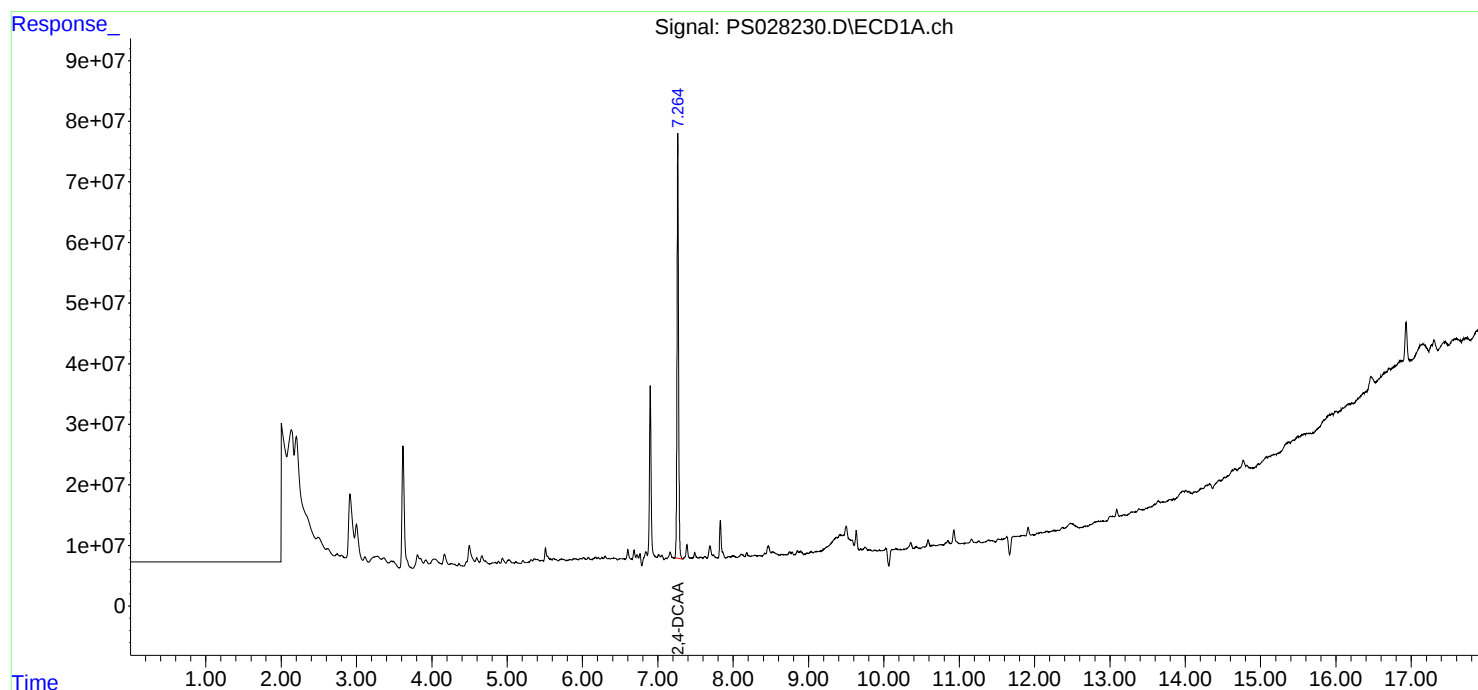
Instrument :
ECD_S
ClientSampleId :
PB164641BL

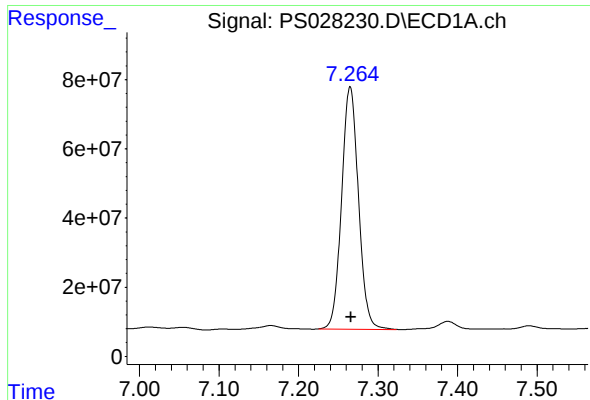
Manual Integrations
APPROVED

Reviewed By : Abdul Mirza 11/06/2024
Supervised By : Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:37:40 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





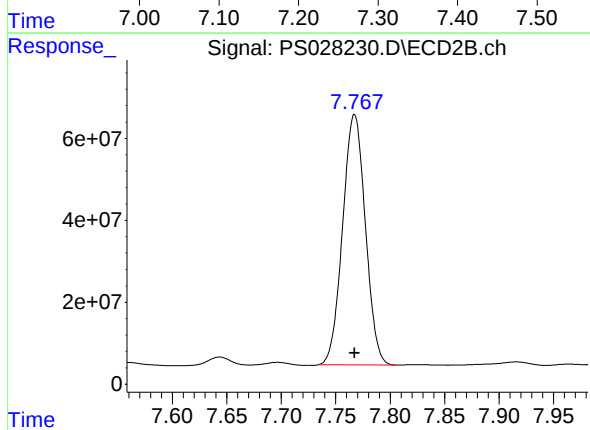
#4 2,4-DCAA

R.T.: 7.264 min
Delta R.T.: -0.002 min
Response: 1031951122
Conc: 572.34 ng/ml

Instrument :
ECD_S
ClientSampleId :
PB164641BL

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 888273088
Conc: 567.99 ng/ml m

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/05/24
Project:	Rt. 10 Whippany	Date Received:	11/05/24
Client Sample ID:	PIBLK-PS028217.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028217.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
PS028217.D	1		11/05/24	PS110524

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	506		70 (39) - 130 (175)	101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 17:23
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: Nov 06 00:18:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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	7.266	7.768	911.6E6	701.6E6	505.579	448.605
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Target Compounds

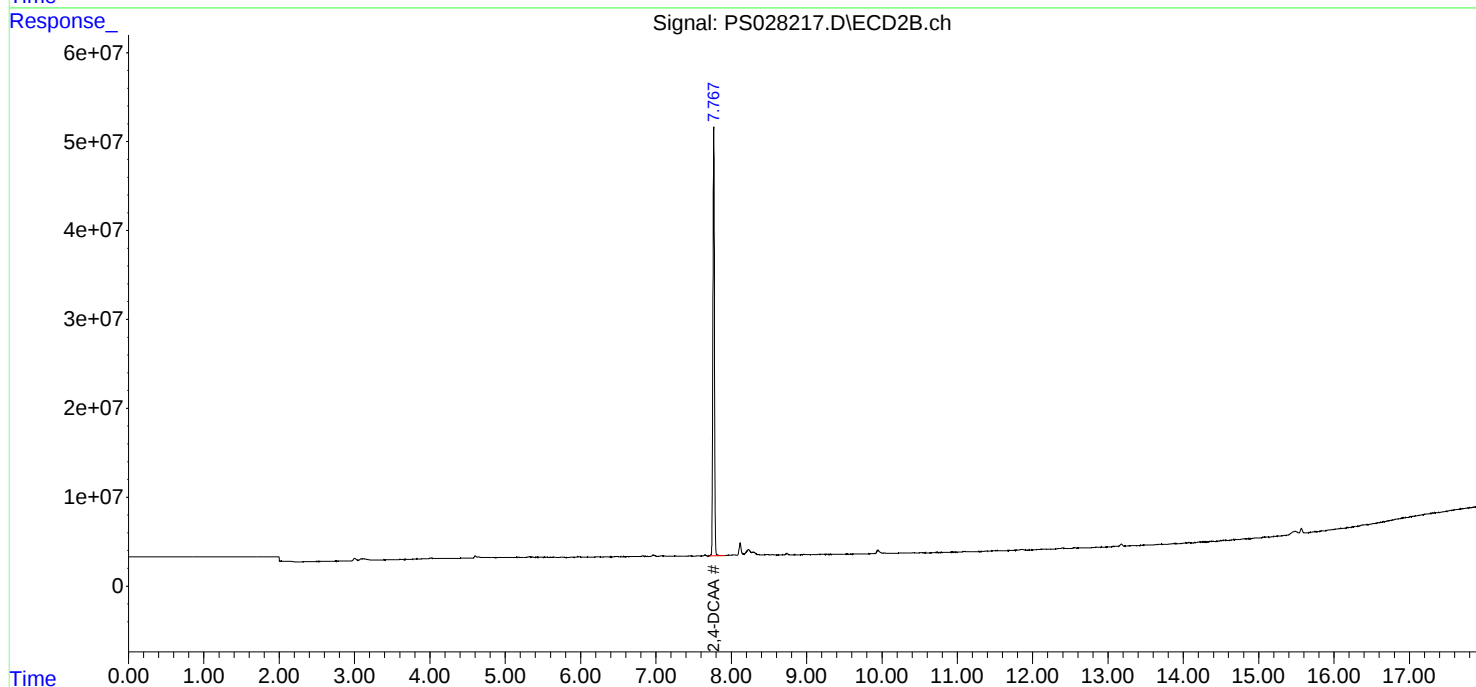
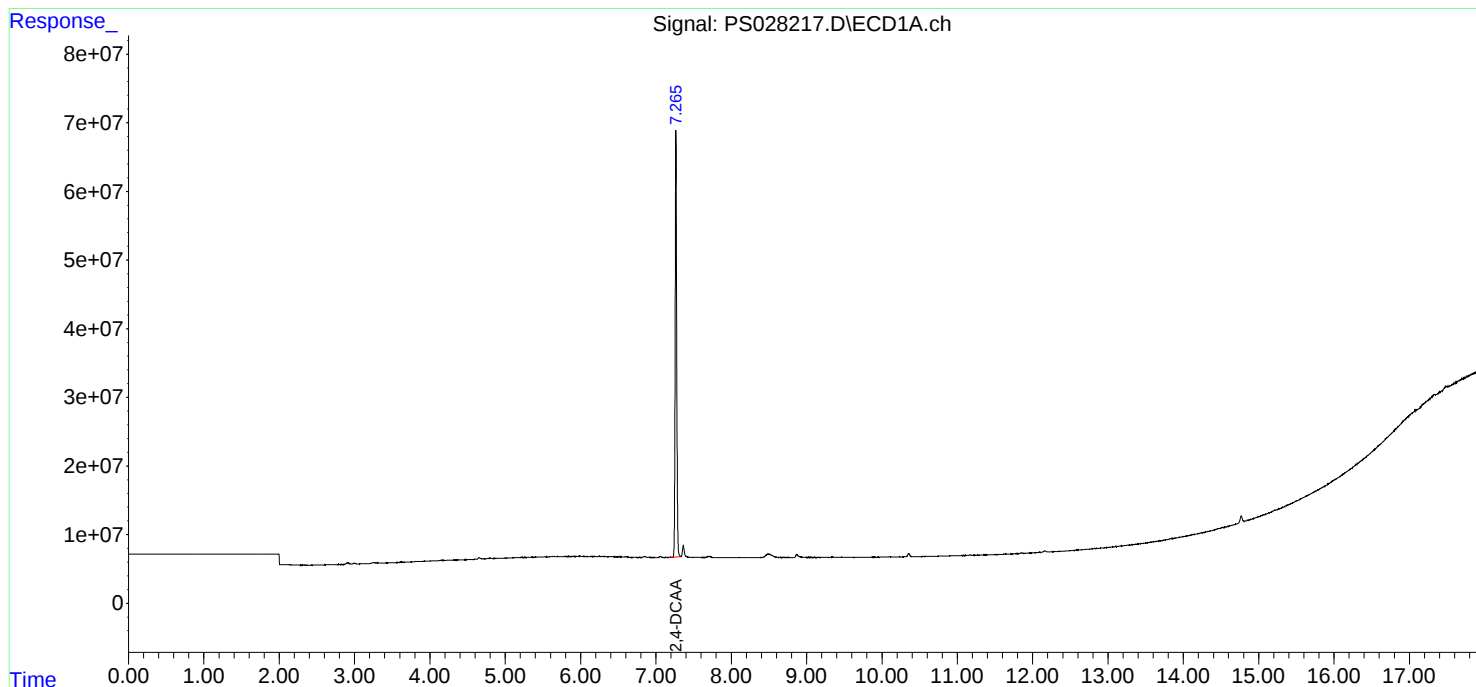
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

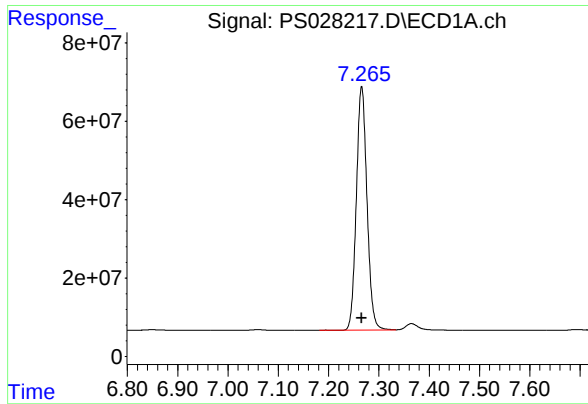
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028217.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 17:23
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:18:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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.: 7.266 min

Delta R.T.: 0.000 min

Response: 911574908

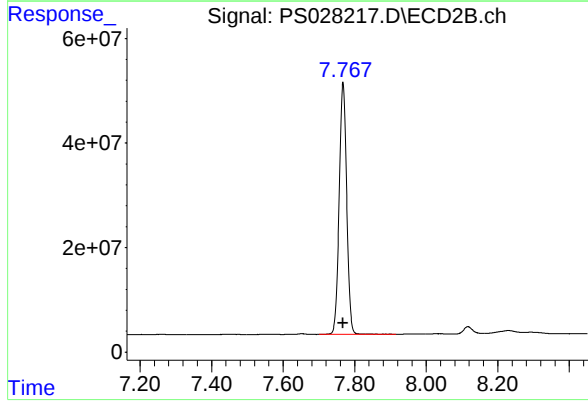
Conc: 505.58 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.768 min

Delta R.T.: 0.000 min

Response: 701568791

Conc: 448.61 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/05/24
Project:	Rt. 10 Whippany	Date Received:	11/05/24
Client Sample ID:	PIBLK-PS028224.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028224.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
PS028224.D	1		11/05/24	PS110524

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	559		70 (39) - 130 (175)	112%	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\PS110524\
Data File : PS028224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 20:12
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: Nov 06 00:30:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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	7.265	7.768	875.6E6	874.0E6	485.632	558.891
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Target Compounds

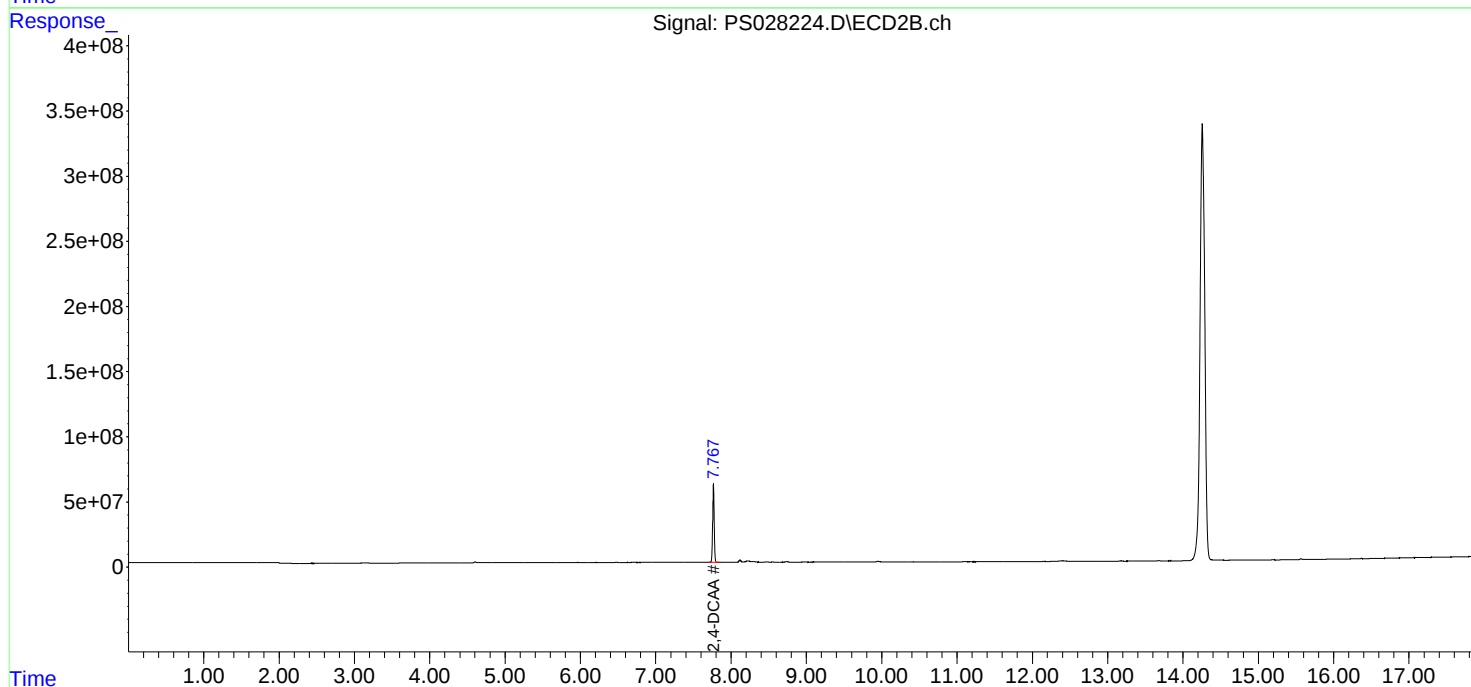
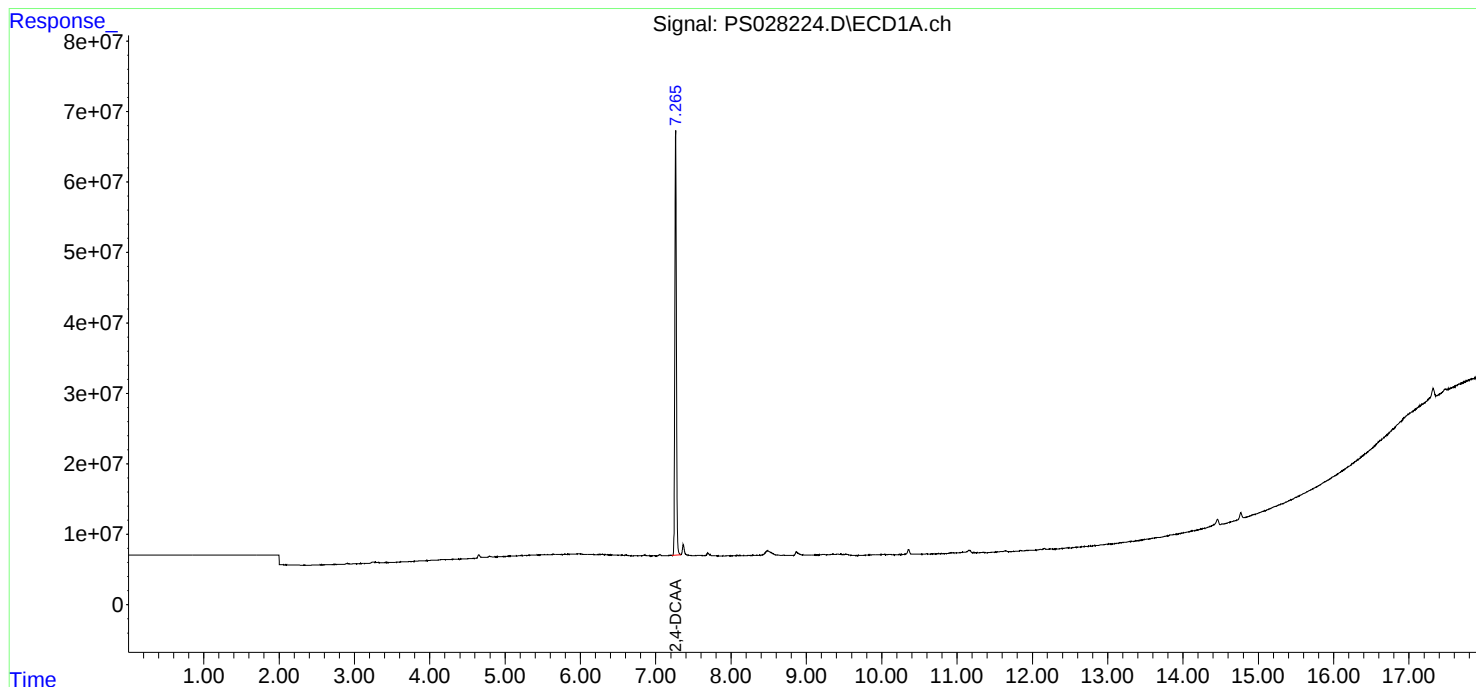
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

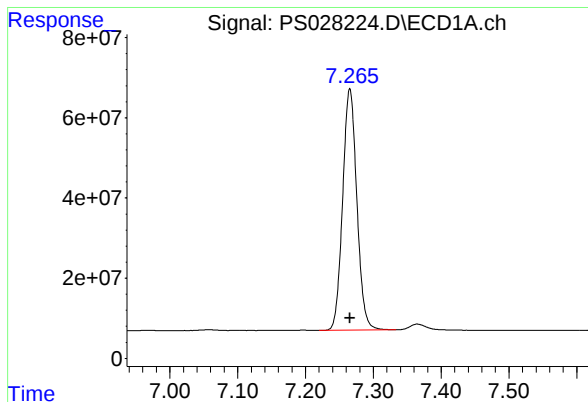
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028224.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 20:12
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:30:45 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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.: 7.265 min

Delta R.T.: 0.000 min

Response: 875609670

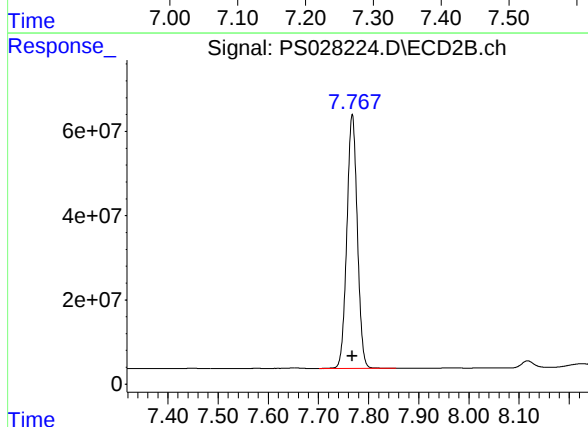
Conc: 485.63 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.768 min

Delta R.T.: 0.000 min

Response: 874043936

Conc: 558.89 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/06/24
Project:	Rt. 10 Whippany	Date Received:	11/06/24
Client Sample ID:	PIBLK-PS028236.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028236.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
PS028236.D	1		11/06/24	PS110524

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	573		70 (39) - 130 (175)	115%	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\PS110524\
 Data File : PS028236.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 06 Nov 2024 01:00
 Operator : AR\AJ
 Sample : I.BLK
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 ECD_S
 ClientSampleId :
 I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
 Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 01:15:00 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.264	7.767	1033.8E6	841.3E6	573.390m	537.947
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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\PS110524\
Data File : PS028236.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Nov 2024 01:00
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

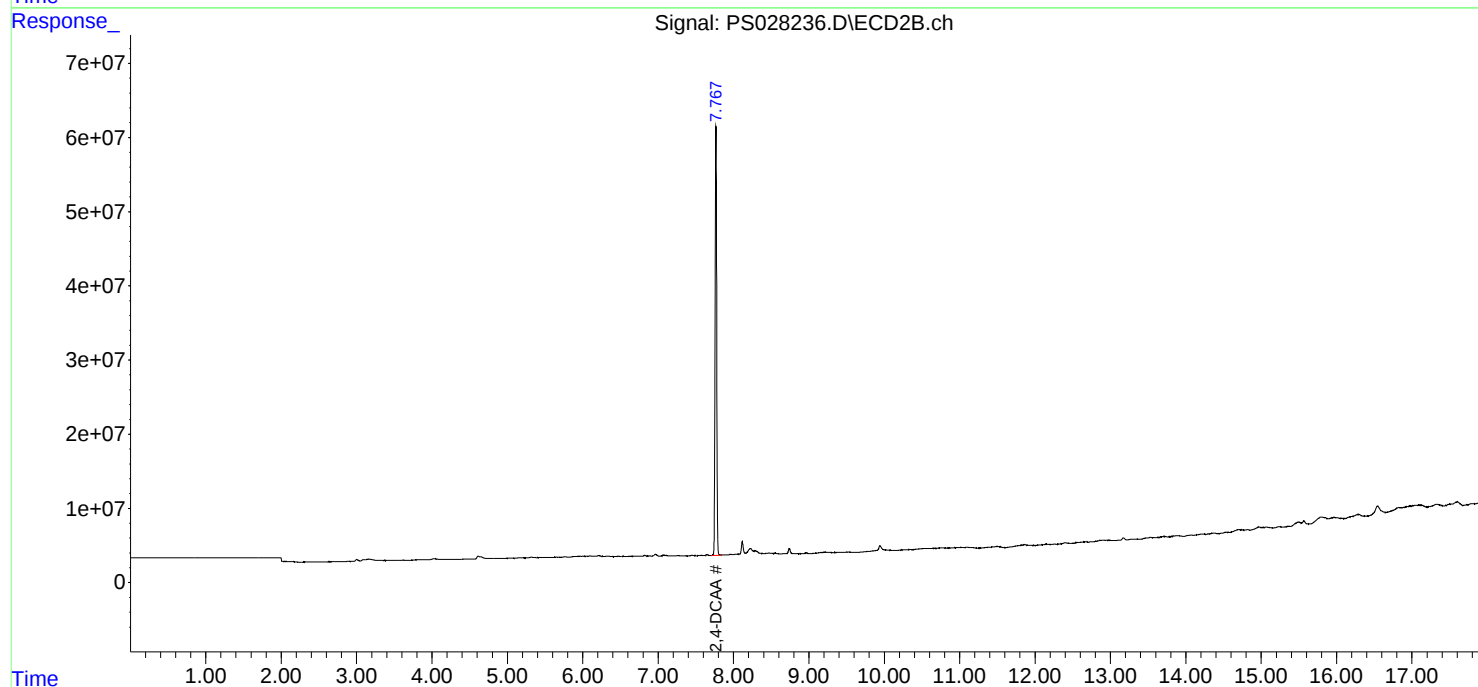
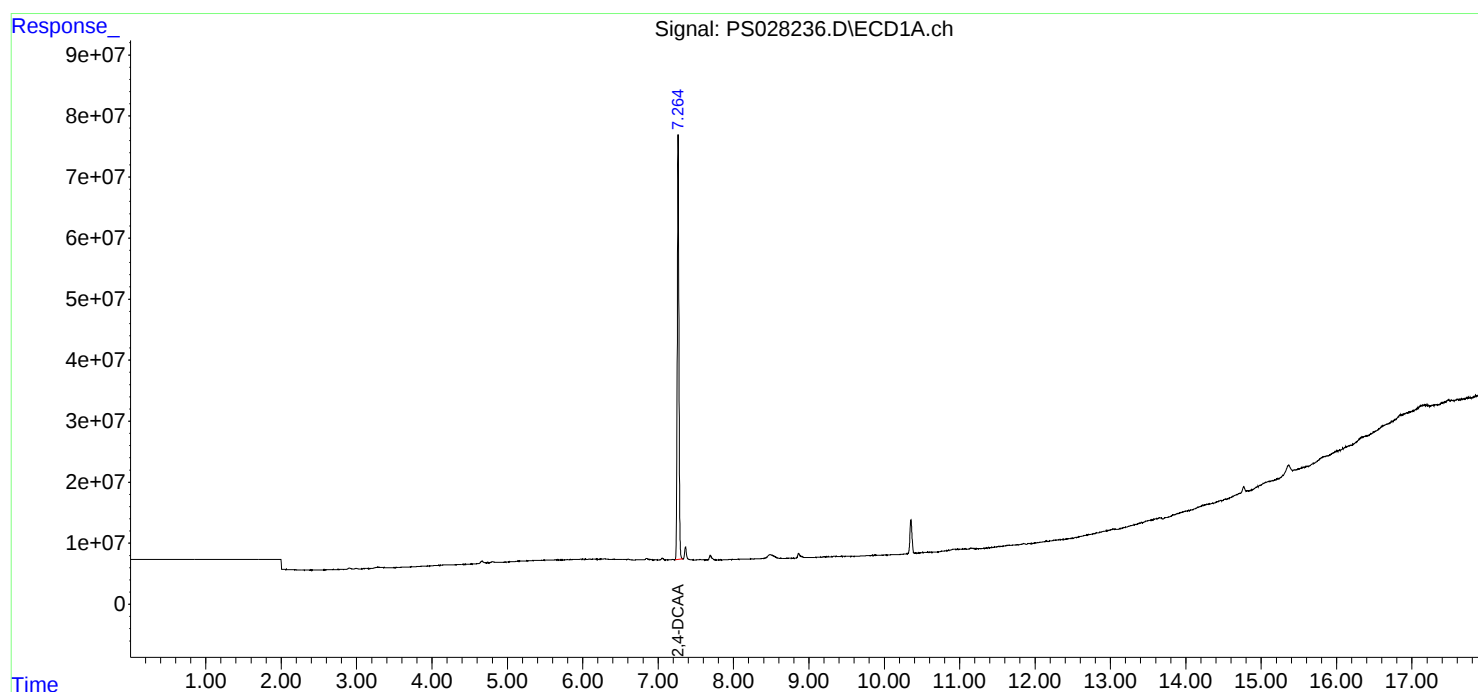
Instrument :
ECD_S
ClientSampleId :
I.BLK

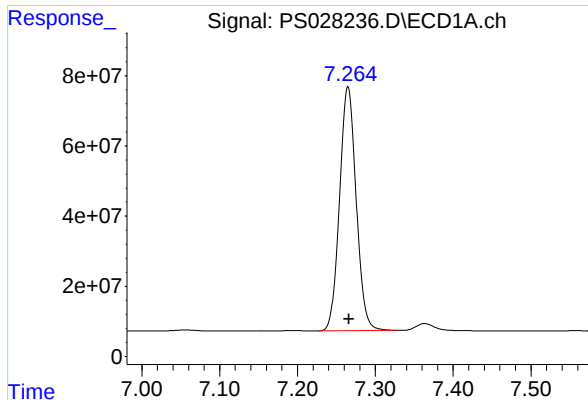
Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 01:15:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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





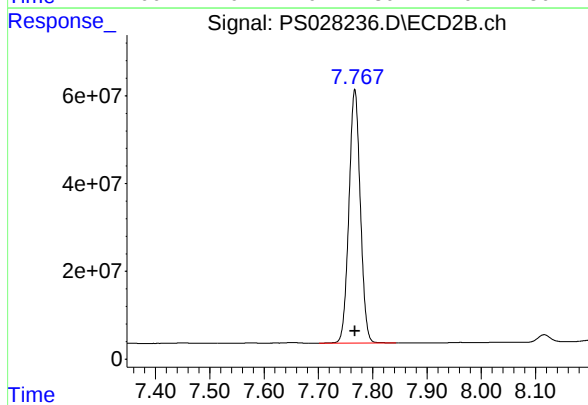
#4 2,4-DCAA

R.T.: 7.264 min
Delta R.T.: -0.002 min
Response: 1033839583
Conc: 573.39 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Manual Integrations
APPROVED

Reviewed By :Abdul Mirza 11/06/2024
Supervised By :Ankita Jodhani 11/06/2024



#4 2,4-DCAA

R.T.: 7.767 min
Delta R.T.: 0.000 min
Response: 841289422
Conc: 537.95 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/08/24
Project:	Rt. 10 Whippany	Date Received:	11/08/24
Client Sample ID:	PIBLK-PS028355.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028355.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
PS028355.D	1		11/08/24	PS110924

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	503		70 (39) - 130 (175)	101%	SPK: 500

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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

() = Laboratory InHouse Limit

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028355.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 14:25
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: Nov 08 17:51:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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	7.250	7.756	1382.7E6	801.6E6	500.845	503.062

Target Compounds

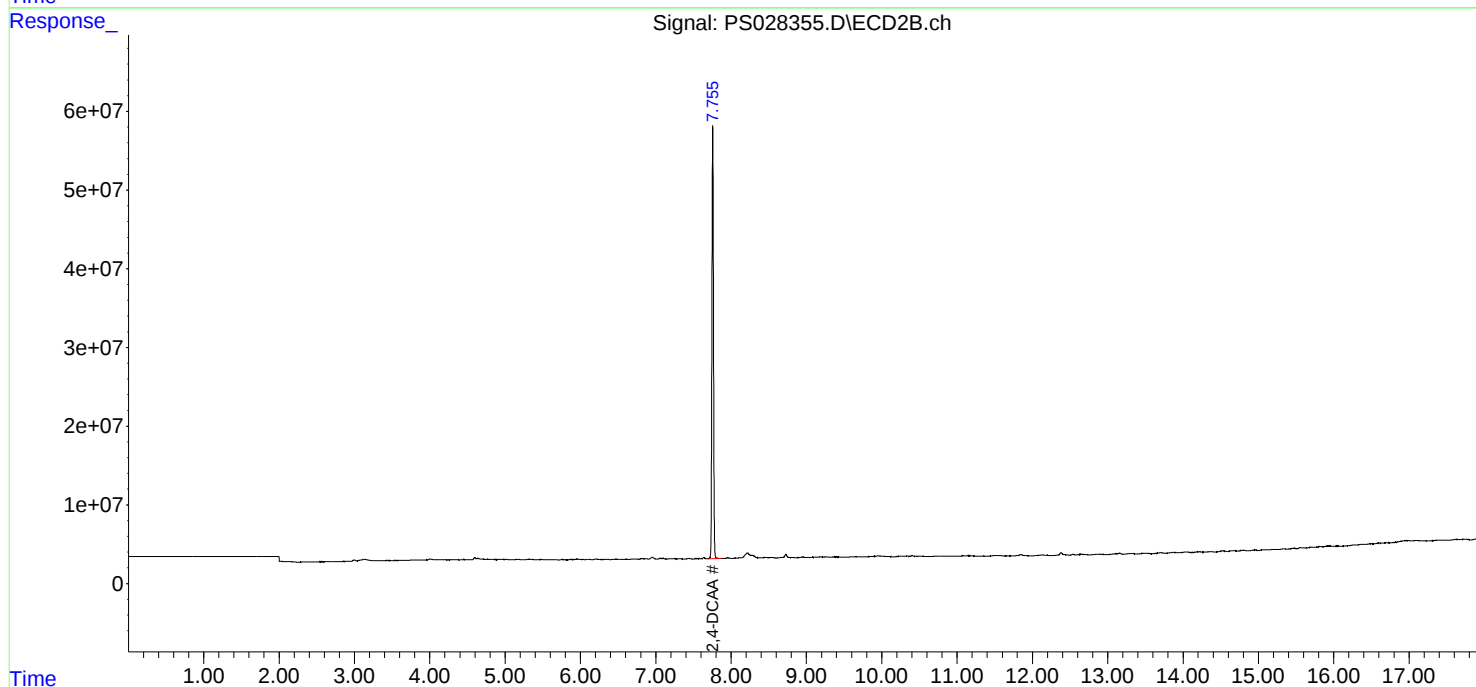
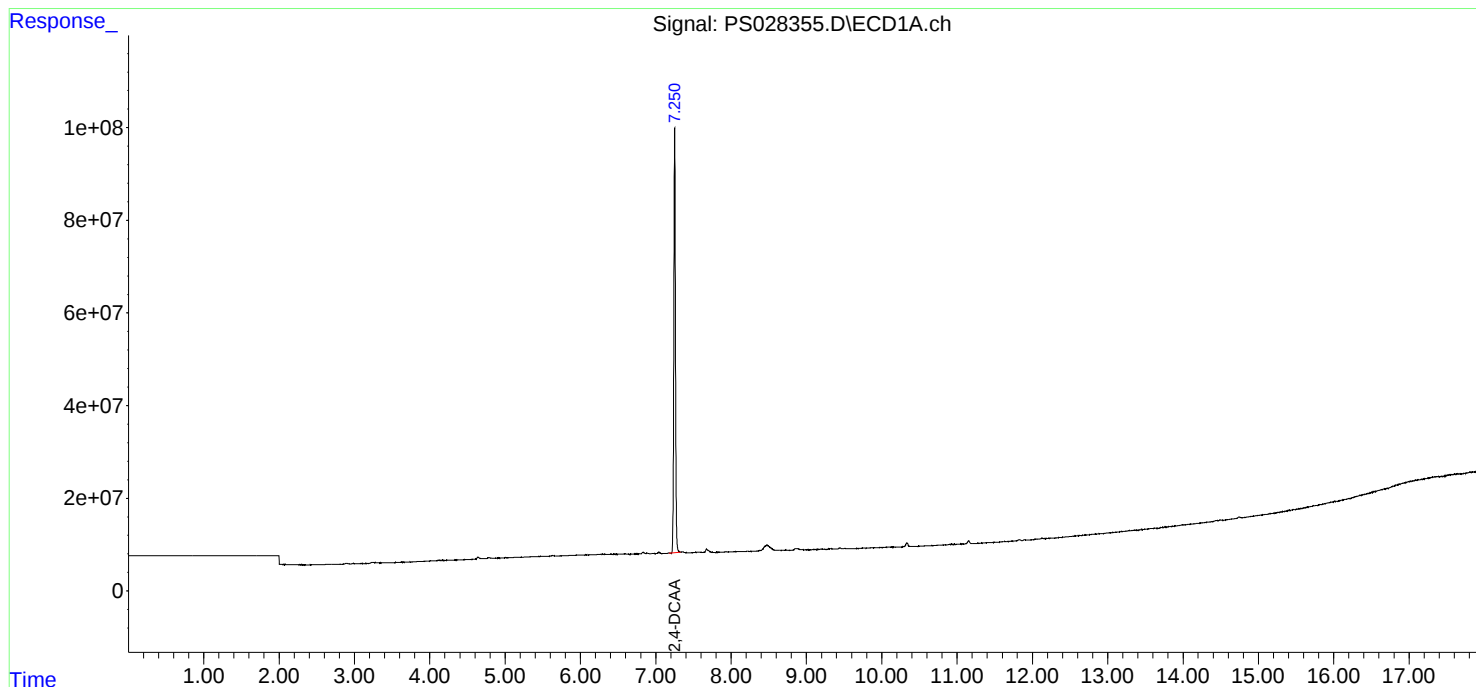
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

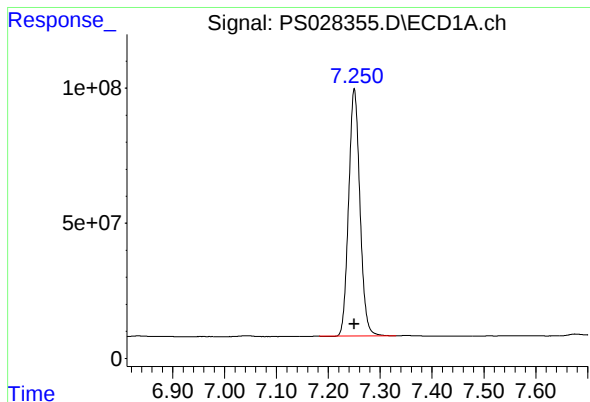
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110924\
Data File : PS028355.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 08 Nov 2024 14:25
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 08 17:51:55 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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.: 7.250 min

Delta R.T.: 0.000 min

Response: 1382710493

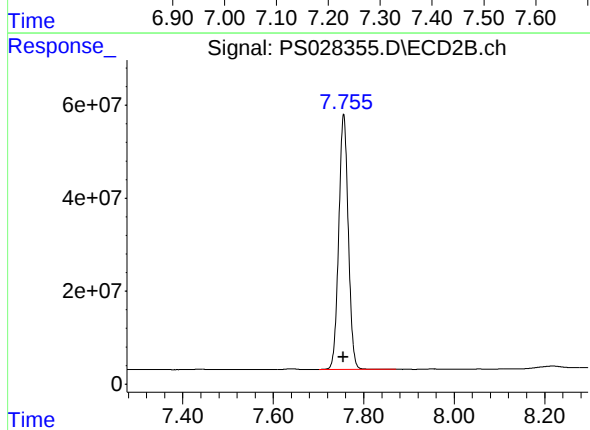
Conc: 500.85 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.756 min

Delta R.T.: 0.000 min

Response: 801589716

Conc: 503.06 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company		Date Collected:	11/11/24	
Project:	Rt. 10 Whippany		Date Received:	11/11/24	
Client Sample ID:	PIBLK-PS028405.D		SDG No.:	P4663	
Lab Sample ID:	I.BLK-PS028405.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
PS028405.D	1		11/11/24	ps111124

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	511		70 (39) - 130 (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\PS111124\
Data File : PS028405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 16:09
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: Nov 11 23:19:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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	7.247	7.752	1410.9E6	751.7E6	511.039	471.753

Target Compounds

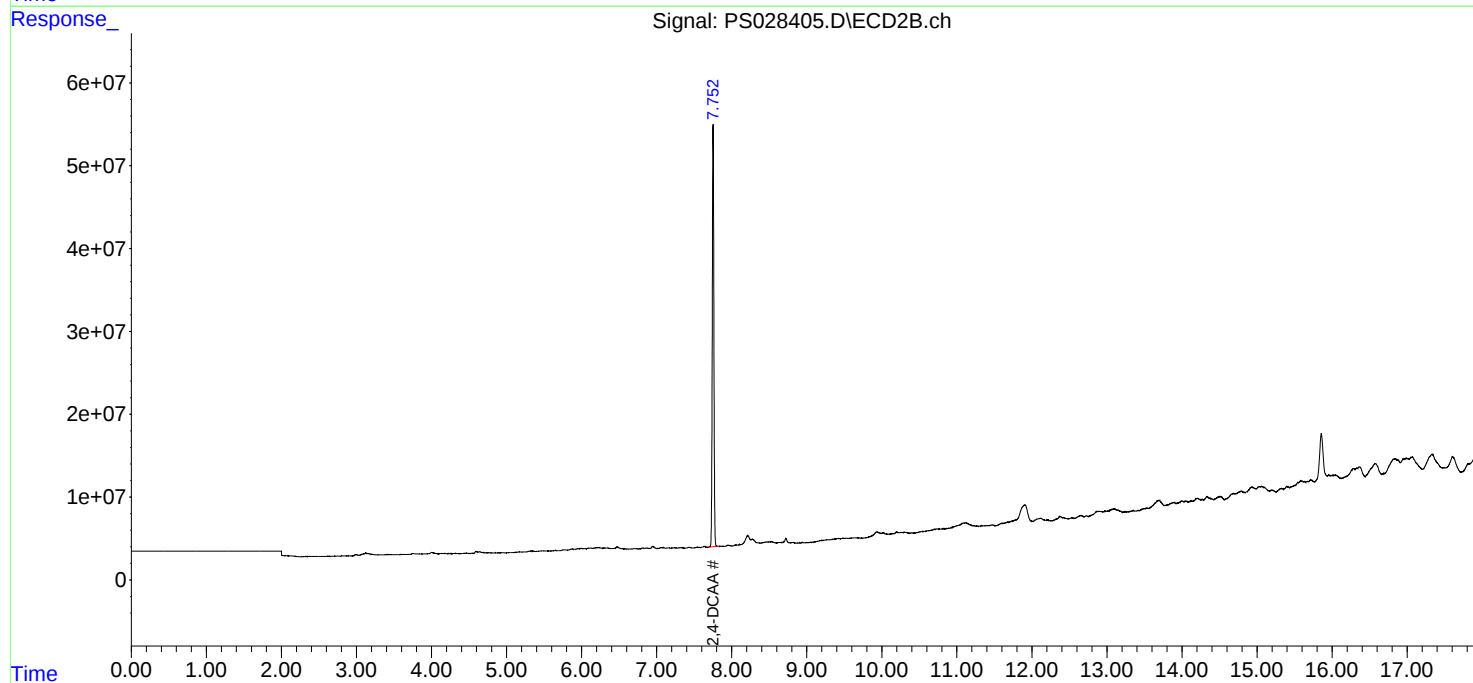
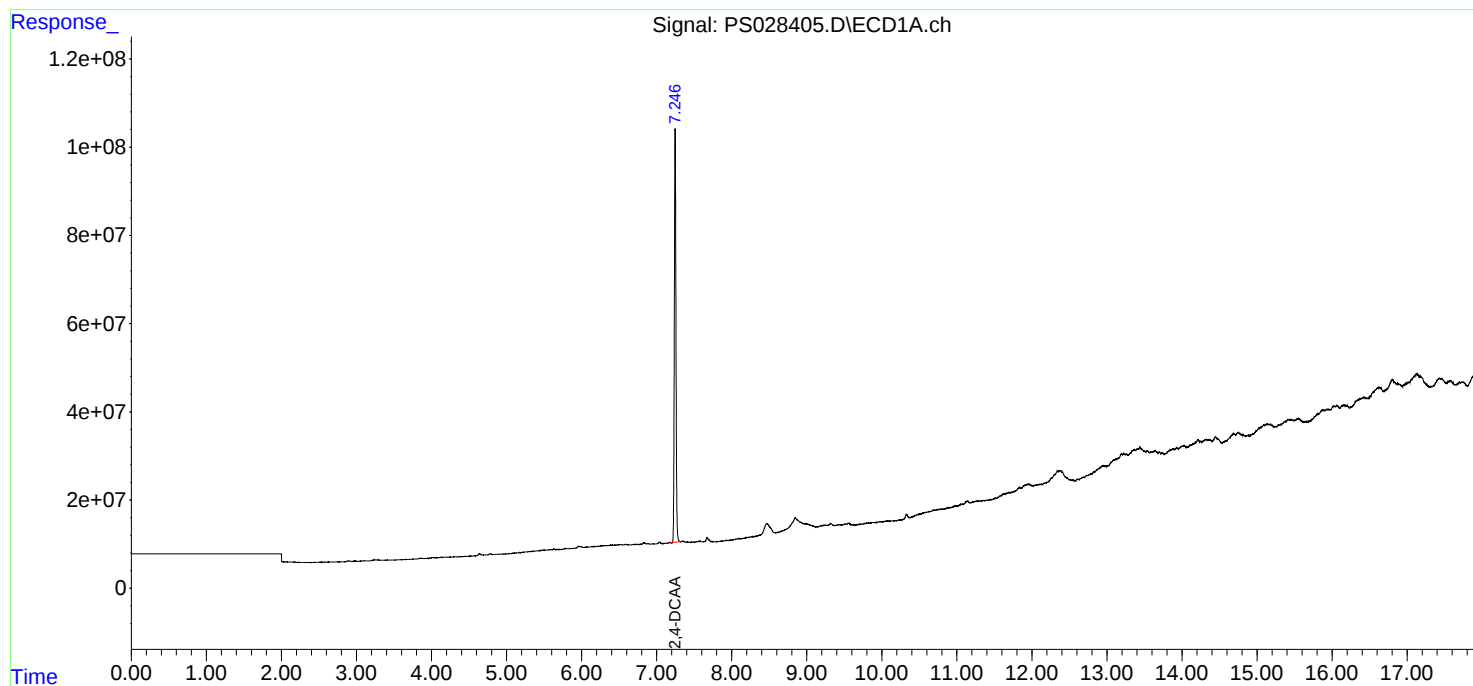
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028405.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 16:09
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

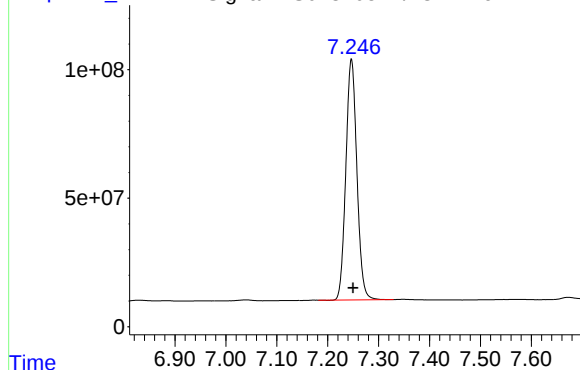
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:19:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 2024
Response via : Initial Calibration
Integrator: ChemStation

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



Signal: PS028405.D\ECD1A.ch

#4 2,4-DCAA

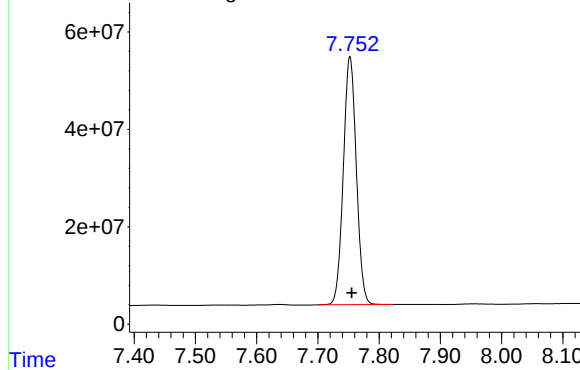


R.T.: 7.247 min
Delta R.T.: -0.003 min
Response: 1410854111
Conc: 511.04 ng/ml

Instrument :
ECD_S
ClientSampleId :
I.BLK

Signal: PS028405.D\ECD2B.ch

#4 2,4-DCAA



R.T.: 7.752 min
Delta R.T.: -0.003 min
Response: 751701019
Conc: 471.75 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	11/11/24
Project:	Rt. 10 Whippany	Date Received:	11/11/24
Client Sample ID:	PIBLK-PS028417.D	SDG No.:	P4663
Lab Sample ID:	I.BLK-PS028417.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
PS028417.D	1		11/11/24	ps111124

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	513		70 (39) - 130 (175)	103%	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\PS111124\
 Data File : PS028417.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Nov 2024 20:58
 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: Nov 11 23:31:06 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.245	7.751	1417.0E6	745.5E6	513.251	467.848
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Target Compounds

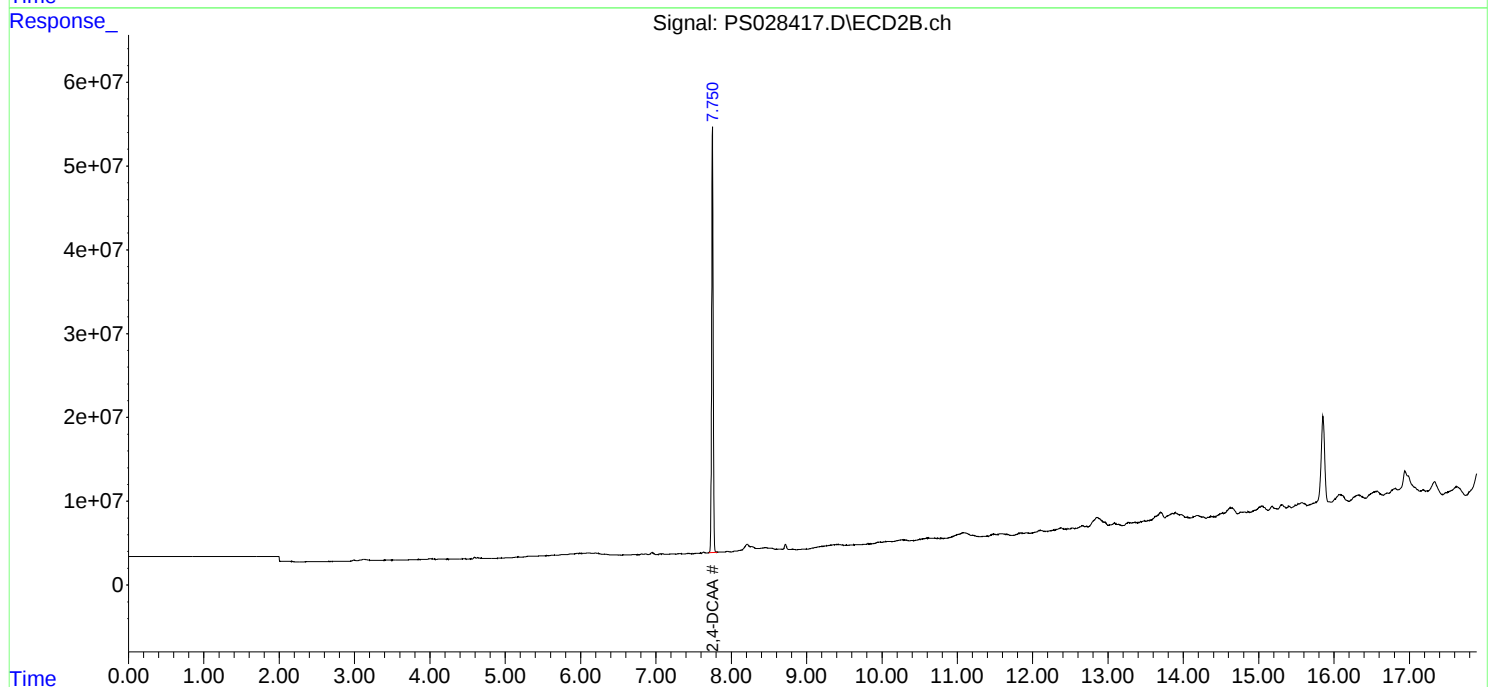
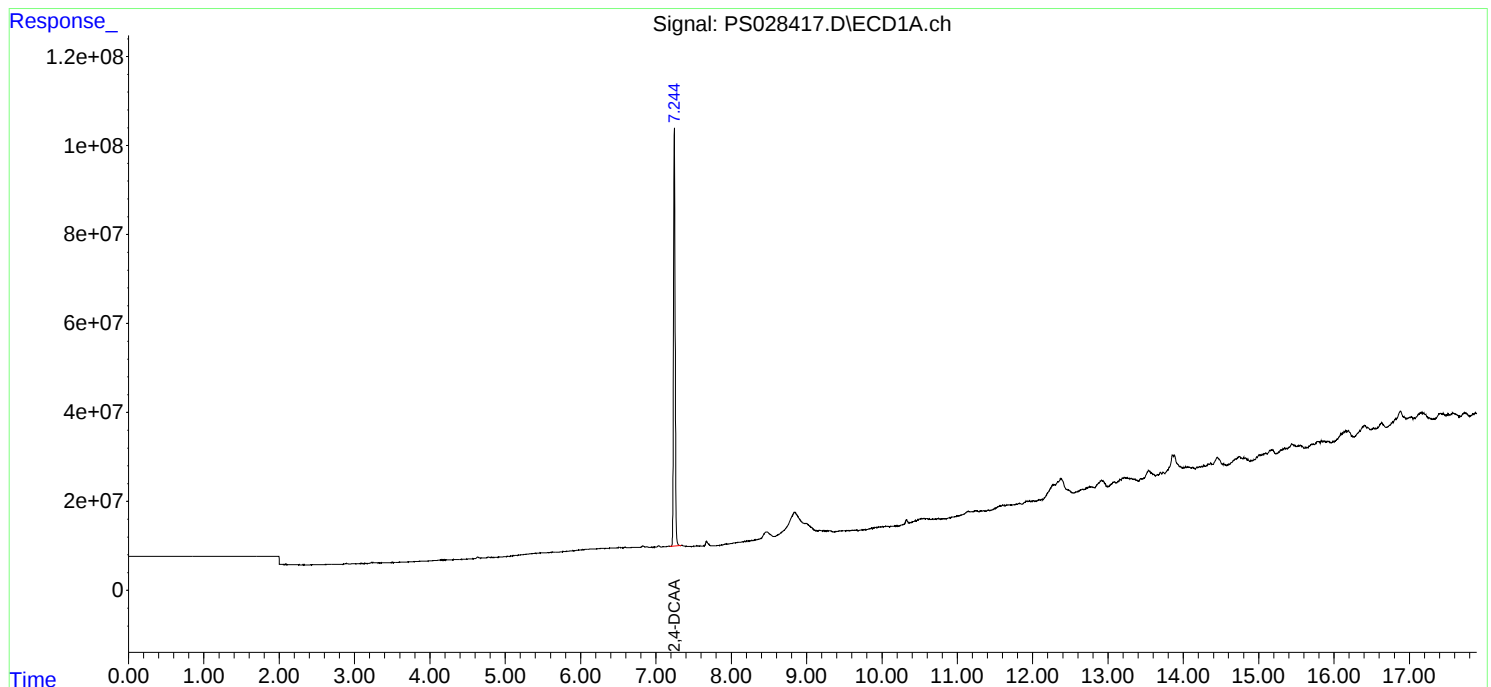
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

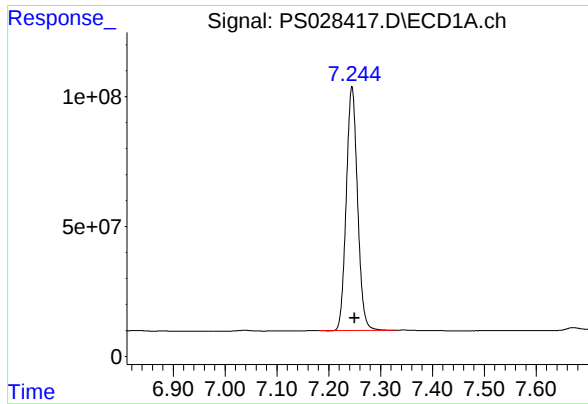
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028417.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 20:58
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_S
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:31:06 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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.: 7.245 min

Delta R.T.: -0.005 min

Response: 1416961208

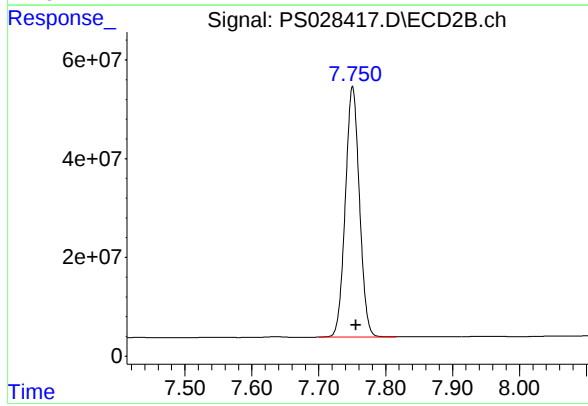
Conc: 513.25 ng/ml

Instrument :

ECD_S

ClientSampleId :

I.BLK



#4 2,4-DCAA

R.T.: 7.751 min

Delta R.T.: -0.005 min

Response: 745478861

Conc: 467.85 ng/ml

Report of Analysis

Client:	Union Paving & Construction Company	Date Collected:	
Project:	Rt. 10 Whippany	Date Received:	
Client Sample ID:	PB164641BS	SDG No.:	P4663
Lab Sample ID:	PB164641BS	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 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
PS028231.D	1	11/04/24 09:51	11/05/24 23:00	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	181		8.70	66.9	ug/Kg
120-36-5	DICHLORPROP	185		9.50	66.9	ug/Kg
94-75-7	2,4-D	186		12.1	66.9	ug/Kg
93-72-1	2,4,5-TP (Silvex)	194		9.40	66.9	ug/Kg
93-76-5	2,4,5-T	193		10.1	66.9	ug/Kg
94-82-6	2,4-DB	188		18.3	66.9	ug/Kg
88-85-7	DINOSEB	197		12.4	66.9	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	573		70 (10) - 130 (141)	115%	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\PS110524\
 Data File : PS028231.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 05 Nov 2024 23:00
 Operator : AR\AJ
 Sample : PB164641BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164641BS

Manual Integrations

APPROVED

Reviewed By :Abdul Mirza 11/06/2024

Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 06 00:38:38 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
 Quant Title : 8080.M
 QLast Update : Wed Nov 06 00:14:58 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	7.265	7.767	1033.7E6	894.0E6	573.313	571.667
Target Compounds							
1) T	Dalapon	2.657	2.710	1487.1E6	1366.4E6	466.797	493.729
2) T	3,5-DICHL...	6.433	6.718	1458.3E6	1244.7E6	520.321	531.243
3) T	4-Nitroph...	7.065	7.293	614.1E6	544.4E6	518.167	514.235
5) T	DICAMBA	7.455	7.969	4234.4E6	3918.0E6	536.093	543.200
6) T	MCPD	7.636	8.069	288.7E6	286.4E6	52.433m	55.342
7) T	MCPA	7.787	8.315	415.3E6	389.6E6	51.207	54.317
8) T	DICHLORPROP	8.166	8.687	1004.8E6	940.6E6	556.164	540.388
9) T	2,4-D	8.397	9.018	1132.0E6	1030.3E6	558.331	528.378m
10) T	Pentachlo...	8.698	9.550	15485.4E6	14200.5E6	578.981	548.914
11) T	2,4,5-TP ...	9.280	9.926	5835.8E6	5755.7E6	583.036	535.296
12) T	2,4,5-T	9.573	10.348	5922.5E6	5606.7E6	579.668	524.086
13) T	2,4-DB	10.151	10.916	932.2E6	683.6E6	565.312	493.175
14) T	DINOSEB	11.368	11.296	4435.9E6	3794.9E6	590.382	505.900
15) T	Picloram	11.173	12.397	9875.3E6	7837.1E6	565.939	477.360
16) T	DCPA	11.660	12.344	7625.0E6	6025.4E6	612.460	478.059

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS110524\
Data File : PS028231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 05 Nov 2024 23:00
Operator : AR\AJ
Sample : PB164641BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

PB164641BS

Manual Integrations

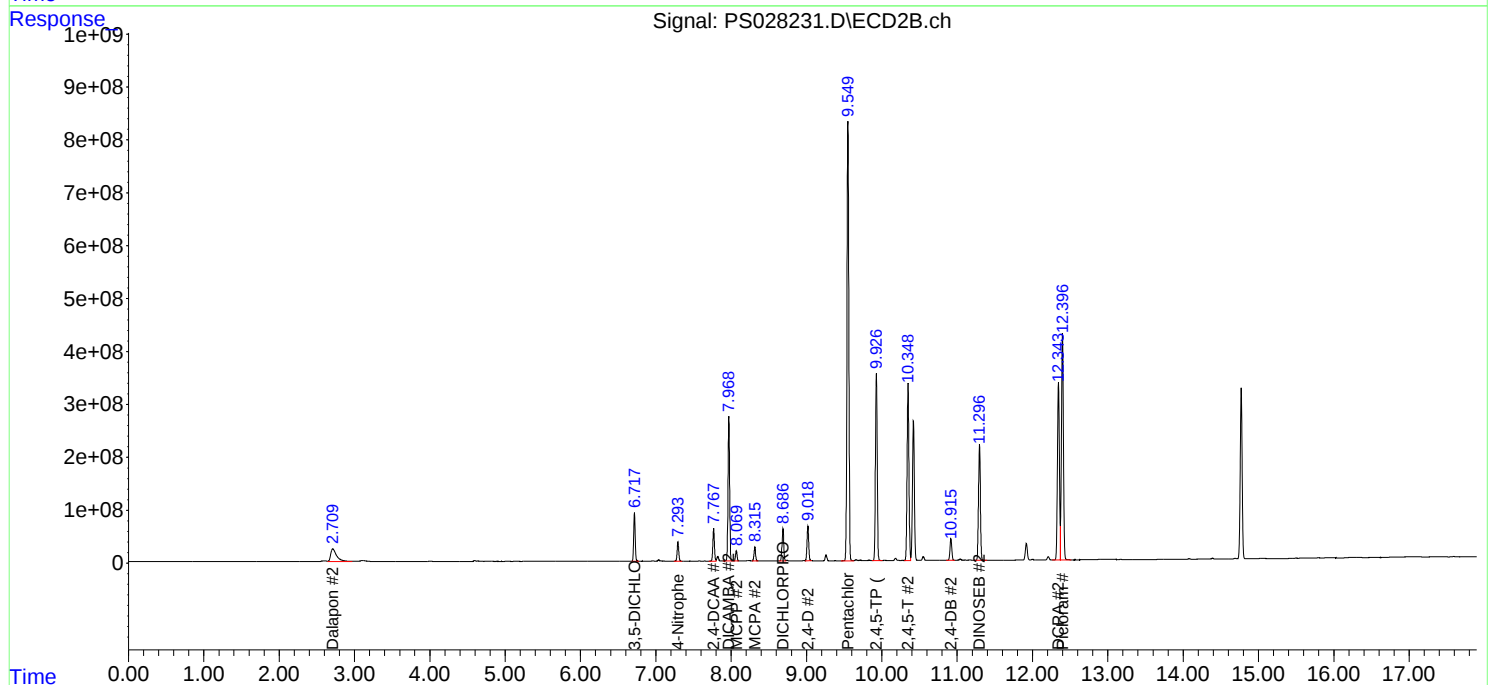
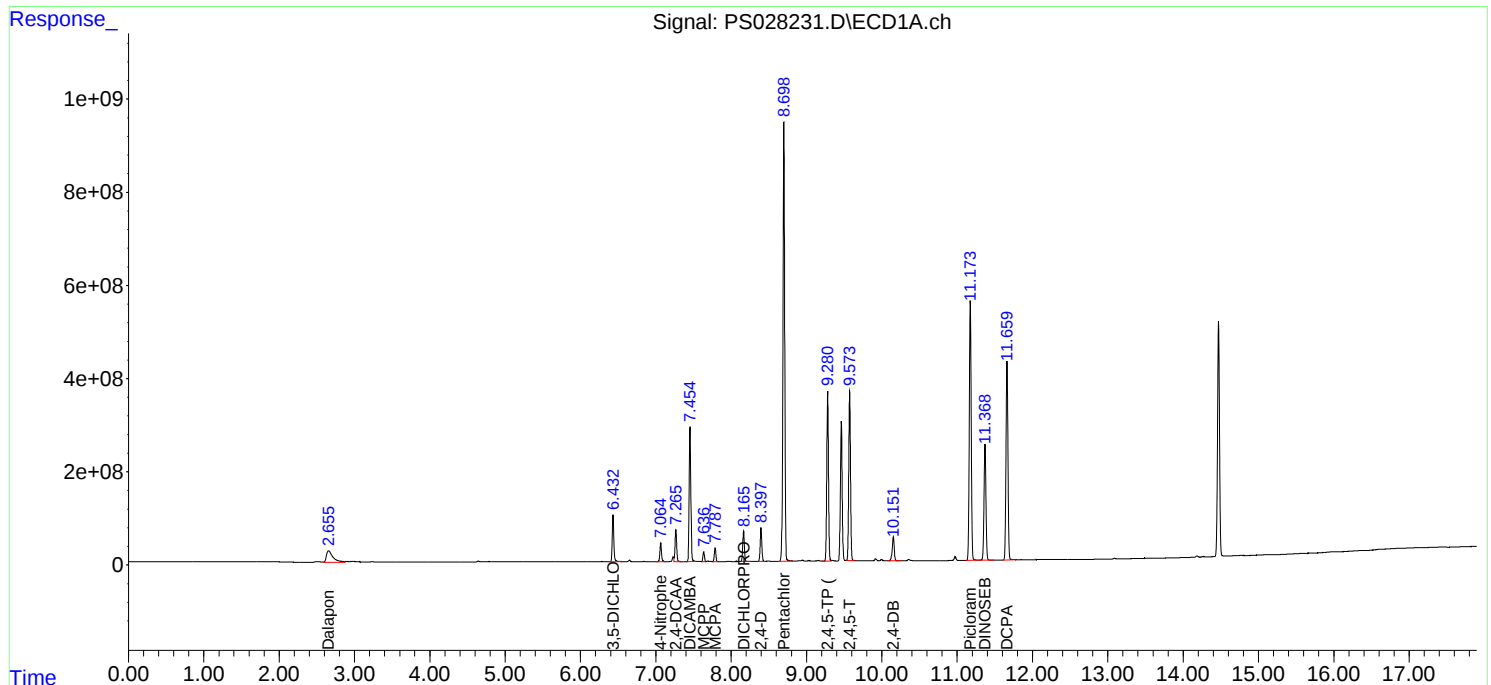
APPROVED

Reviewed By :Abdul Mirza 11/06/2024

Supervised By :Ankita Jodhani 11/06/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 06 00:38:38 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110524.M
Quant Title : 8080.M
QLast Update : Wed Nov 06 00:14:58 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:	Union Paving & Construction Company		Date Collected:	10/23/24	
Project:	Rt. 10 Whippany		Date Received:	10/29/24	
Client Sample ID:	CC0R8MS		SDG No.:	P4663	
Lab Sample ID:	P4602-44MS		Matrix:	SOIL	
Analytical Method:	SW8151A		% Solid:	91.6	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
PS028408.D	1	11/04/24 09:51	11/11/24 17:21	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	78.0		9.50	73.1	ug/Kg
120-36-5	DICHLORPROP	47.0	J	10.4	73.1	ug/Kg
94-75-7	2,4-D	90.4		13.2	73.1	ug/Kg
93-72-1	2,4,5-TP (Silvex)	29.7	J	10.2	73.1	ug/Kg
93-76-5	2,4,5-T	49.4	J	11.0	73.1	ug/Kg
94-82-6	2,4-DB	52.5	JP	20.0	73.1	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.1	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	375		70 (10) - 130 (141)	75%	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\PS111124\
 Data File : PS028408.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Nov 2024 17:21
 Operator : AR\AJ
 Sample : P4602-44MS
 Misc :
 ALS Vial : 44 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

CC0R8MS

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 11 23:21:44 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.245	7.752	1036.4E6	403.2E6	375.420	253.022 #
Target Compounds							
1) T	Dalapon	2.640	2.706	452.7E6	595.8E6	126.860	210.121m#
2) T	3,5-DICHL...	6.416	6.704	630.1E6	337.2E6	157.464	142.337
3) T	4-Nitroph...	7.046	7.278	201.8E6	118.4E6	108.807	111.763m
5) T	DICAMBA	7.434	7.953	2582.7E6	1418.3E6	214.496	197.822
6) T	MCPD	7.613	8.047	63463933	136.0E6	7.760	23.156 #
7) T	MCPA	7.765	8.295	243.3E6	165.7E6	21.703	20.687
8) T	DICHLORPROP	8.143	8.670	400.9E6	213.4E6	129.339	119.782
9) T	2,4-D	8.375	9.000	873.8E6	398.0E6	248.649	205.836
10) T	Pentachlo...	8.674	9.530	2483.5E6	1186.9E6	55.137	47.633
11) T	2,4,5-TP ...	9.255	9.907	1459.5E6	865.2E6	77.106	81.685
12) T	2,4,5-T	9.547	10.328	2505.7E6	1410.5E6	129.287	135.939
13) T	2,4-DB	10.124	10.894	301.7E6	191.3E6	97.613	144.351m#
14) T	DINOSEB	11.352	11.278	281.8E6	220.5E6	17.384m	30.728 #
15) T	Picloram	11.144	12.373	8537.3E6	3368.7E6	271.836	234.061
16) T	DCPA	11.630	12.321	9075.4E6	3896.0E6	339.568	347.545

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028408.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:21
Operator : AR\AJ
Sample : P4602-44MS
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

CC0R8MS

Manual Integrations

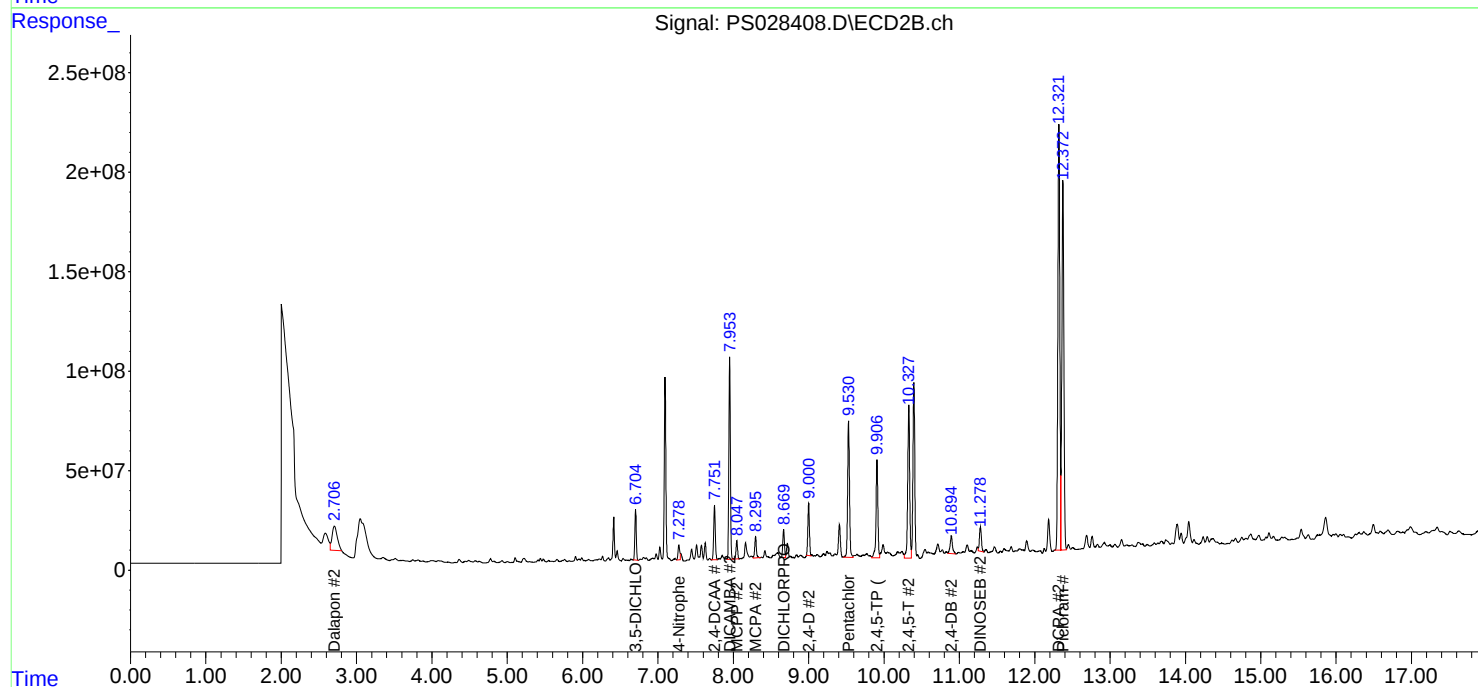
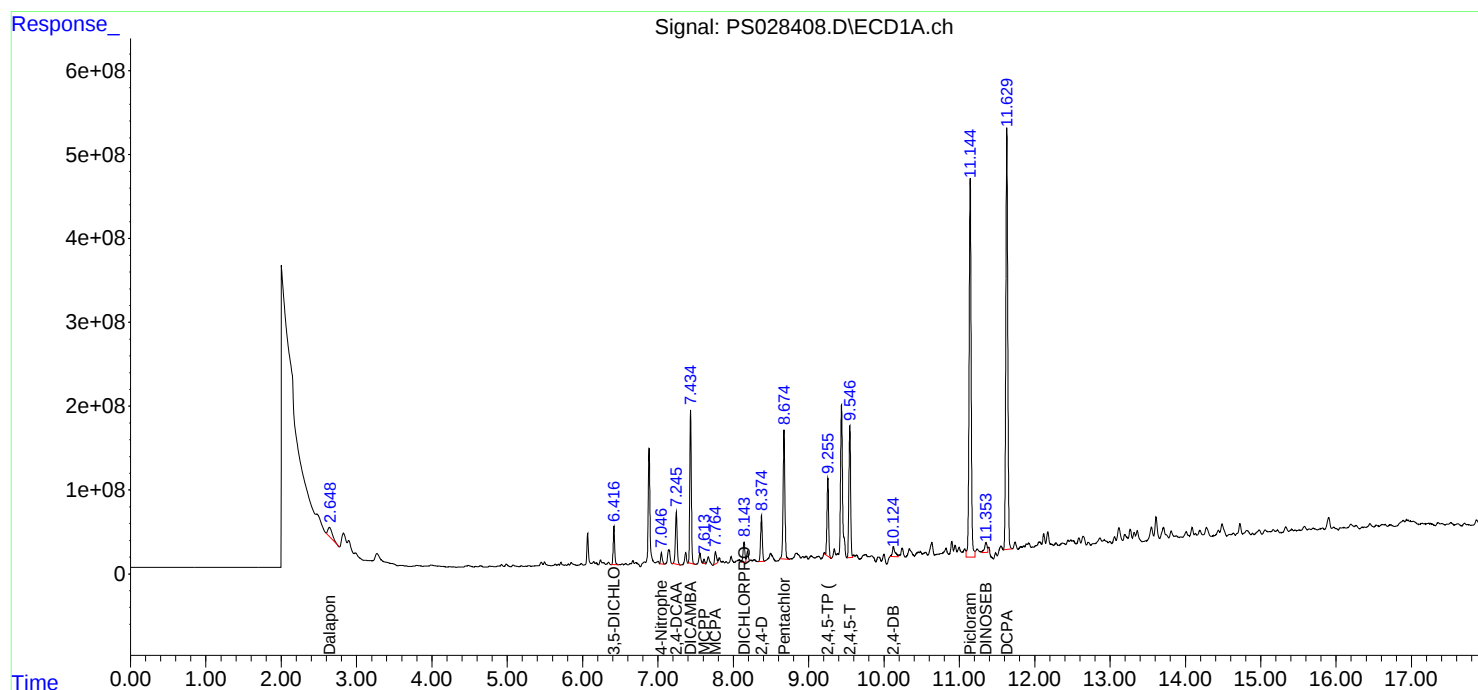
APPROVED

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:21:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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:	Union Paving & Construction Company	Date Collected:	10/23/24
Project:	Rt. 10 Whippany	Date Received:	10/29/24
Client Sample ID:	CC0R8MSD	SDG No.:	P4663
Lab Sample ID:	P4602-45MSD	Matrix:	SOIL
Analytical Method:	SW8151A	% Solid:	91.6
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
PS028409.D	1	11/04/24 09:51	11/11/24 17:45	PB164641

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
1918-00-9	DICAMBA	78.6		9.50	73.0	ug/Kg
120-36-5	DICHLORPROP	47.4	J	10.4	73.0	ug/Kg
94-75-7	2,4-D	91.1		13.2	73.0	ug/Kg
93-72-1	2,4,5-TP (Silvex)	29.9	J	10.2	73.0	ug/Kg
93-76-5	2,4,5-T	50.0	J	11.0	73.0	ug/Kg
94-82-6	2,4-DB	52.5	JP	20.0	73.0	ug/Kg
88-85-7	DINOSEB	13.5	U	13.5	73.0	ug/Kg
SURROGATES						
19719-28-9	2,4-DCAA	379		70 (10) - 130 (141)	76%	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\PS111124\
 Data File : PS028409.D
 Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
 Acq On : 11 Nov 2024 17:45
 Operator : AR\AJ
 Sample : P4602-45MSD
 Misc :
 ALS Vial : 45 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

CC0R8MSD

Manual Integrations**APPROVED**

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
 Integration File signal 2: autoint2.e
 Quant Time: Nov 11 23:22:42 2024
 Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
 Quant Title : 8080.M
 QLast Update : Fri Nov 08 17:46:43 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	7.244	7.752	1045.6E6	405.4E6	378.734	254.399 #
Target Compounds							
1) T	Dalapon	2.640	2.706	448.0E6	499.2E6	125.544	176.051m#
2) T	3,5-DICHL...	6.416	6.704	635.1E6	338.0E6	158.724	142.681
3) T	4-Nitroph...	7.046	7.278	203.6E6	115.9E6	109.781	109.448m
5) T	DICAMBA	7.434	7.953	2602.9E6	1428.0E6	216.171	199.183
6) T	MCP	7.613	8.047	63258269	137.9E6	7.735	23.466 #
7) T	MCPA	7.764	8.295	246.3E6	165.8E6	21.967	20.703
8) T	DICHLORPROP	8.143	8.669	404.3E6	216.6E6	130.425	121.595
9) T	2,4-D	8.374	9.000	880.6E6	400.0E6	250.590	206.827
10) T	Pentachlo...	8.673	9.530	2504.2E6	1201.3E6	55.596	48.214
11) T	2,4,5-TP ...	9.255	9.906	1461.5E6	872.7E6	77.211	82.390
12) T	2,4,5-T	9.546	10.328	2520.0E6	1427.8E6	130.026	137.607
13) T	2,4-DB	10.124	10.892	296.6E6	191.4E6	95.963	144.427m#
14) T	DINOSEB	11.353	11.278	319.0E6	223.0E6	19.674m	31.075 #
15) T	Picloram	11.144	12.373	8599.0E6	3398.7E6	273.801	236.146
16) T	DCPA	11.629	12.320	9152.7E6	3936.6E6	342.459	351.161

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_S\Data\PS111124\
Data File : PS028409.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Nov 2024 17:45
Operator : AR\AJ
Sample : P4602-45MSD
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :

ECD_S

ClientSampleId :

CC0R8MSD

Manual Integrations

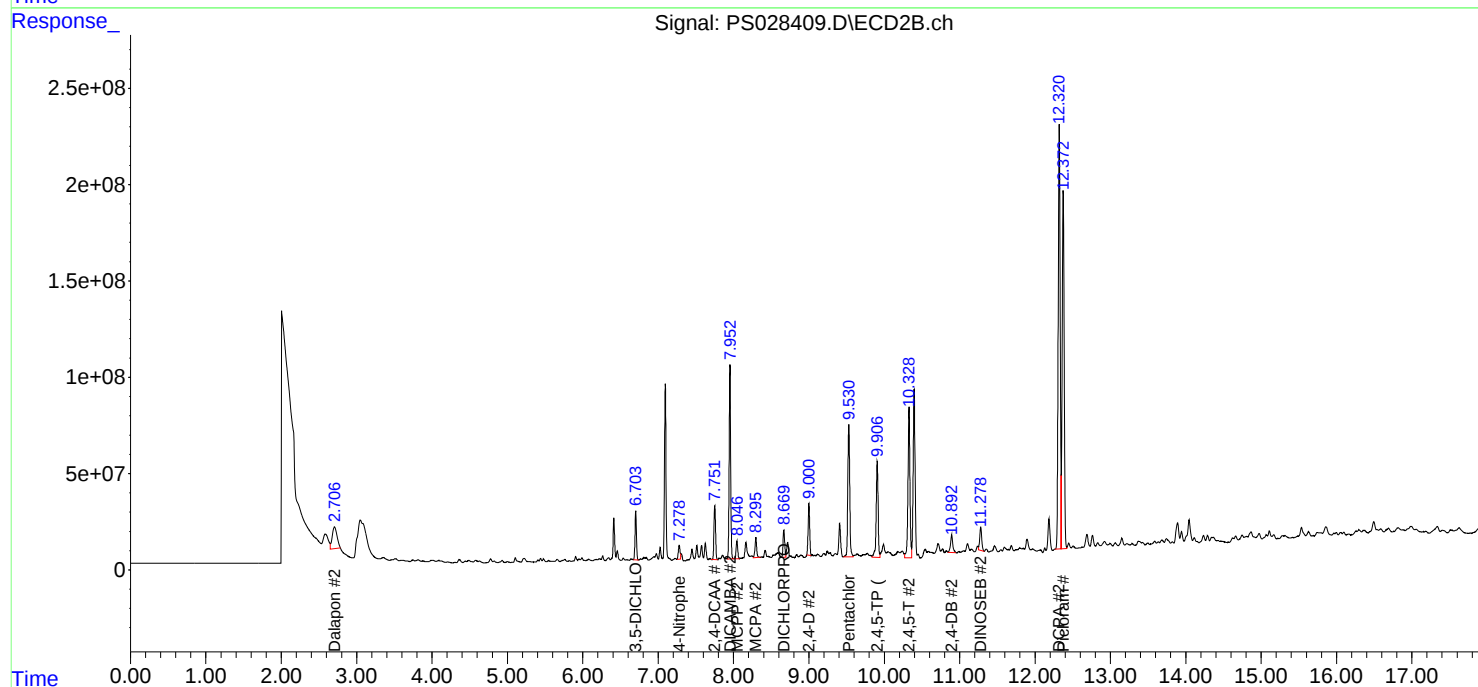
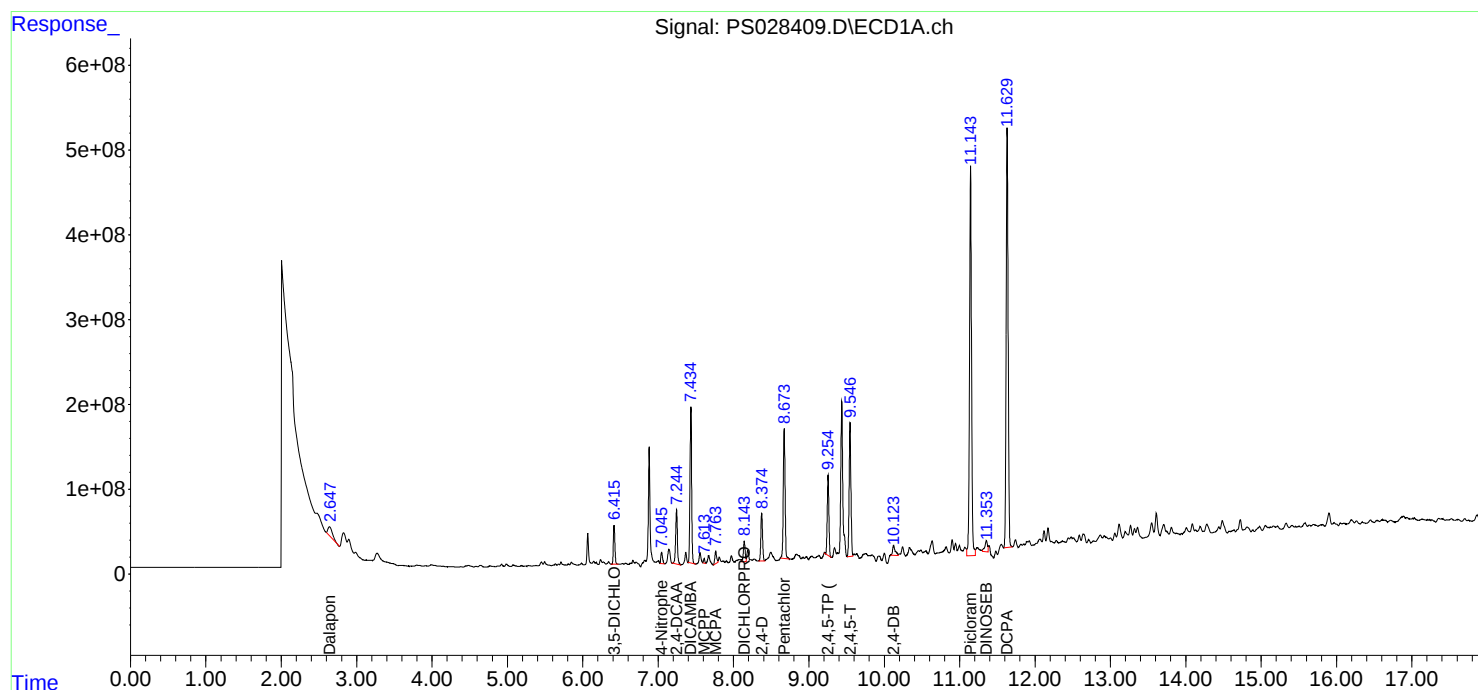
APPROVED

Reviewed By :Abdul Mirza 11/12/2024

Supervised By :Ankita Jodhani 11/12/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 11 23:22:42 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_S\Method\PS110924.M
Quant Title : 8080.M
QLast Update : Fri Nov 08 17:46:43 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



Manual Integration Report

Sequence:	PS110524	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC200	PS028218.D	2,4-DCAA	Abdul	11/6/2024 5:38:49 PM	Ankita	11/7/2024 8:41:19	Peak Integrated by Software
HSTDICC200	PS028218.D	MCPP	Abdul	11/6/2024 5:38:49 PM	Ankita	11/7/2024 8:41:19	Peak Integrated by Software
HSTDICC500	PS028219.D	MCPP	Abdul	11/6/2024 5:38:55 PM	Ankita	11/7/2024 8:41:20	Peak Integrated by Software
HSTDICC1000	PS028221.D	2,4-DCAA	Abdul	11/6/2024 5:38:58 PM	Ankita	11/7/2024 8:41:22	Peak Integrated by Software
P4663-02	PS028226.D	2,4-DCAA	Abdul	11/6/2024 10:24:53 AM	Ankita	11/6/2024 1:06:25	Peak Integrated by Software
P4663-02	PS028226.D	2,4-DCAA #2	Abdul	11/6/2024 10:24:53 AM	Ankita	11/6/2024 1:06:25	Peak Integrated by Software
P4663-04	PS028227.D	2,4-DCAA	Abdul	11/6/2024 10:25:10 AM	Ankita	11/6/2024 1:06:27	Peak Integrated by Software
P4663-04	PS028227.D	2,4-DCAA #2	Abdul	11/6/2024 10:25:10 AM	Ankita	11/6/2024 1:06:27	Peak Integrated by Software
P4663-06	PS028228.D	2,4-DCAA	Abdul	11/6/2024 10:25:15 AM	Ankita	11/6/2024 1:06:29	Peak Integrated by Software
P4663-08	PS028229.D	2,4-DCAA	Abdul	11/6/2024 10:26:56 AM	Ankita	11/6/2024 1:06:31	Peak Integrated by Software
P4663-08	PS028229.D	2,4-DCAA #2	Abdul	11/6/2024 10:26:56 AM	Ankita	11/6/2024 1:06:31	Peak Integrated by Software
PB164641BL	PS028230.D	2,4-DCAA	Abdul	11/6/2024 10:25:20 AM	Ankita	11/6/2024 1:06:33	Peak Integrated by Software
PB164641BL	PS028230.D	2,4-DCAA #2	Abdul	11/6/2024 10:25:20 AM	Ankita	11/6/2024 1:06:33	Peak Integrated by Software

Manual Integration Report

Sequence:	PS110524	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB164641BS	PS028231.D	2,4-D #2	Abdul	11/6/2024 10:25:24 AM	Ankita	11/6/2024 1:06:35	Peak Integrated by Software
PB164641BS	PS028231.D	MCPP	Abdul	11/6/2024 10:25:24 AM	Ankita	11/6/2024 1:06:35	Peak Integrated by Software
I.BLK	PS028236.D	2,4-DCAA	Abdul	11/6/2024 10:25:36 AM	Ankita	11/6/2024 1:06:42	Peak Integrated by Software

Manual Integration Report

Sequence:

PS110924

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDICC500	PS028357.D	2,4-DCAA	Abdul	11/11/2024 5:06:04 PM	Ankita	11/12/2024 8:58:43	Peak Integrated by Software
I.BLK	PS028362.D	2,4-DCAA	Abdul	11/11/2024 5:06:07 PM	Ankita	11/12/2024 8:58:45	Peak Integrated by Software

Manual Integration Report

Sequence:	ps111124	Instrument	ECD_s
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028394.D	2,4-DCAA	yogesh	11/12/2024 5:14:37 AM	Ankita	11/12/2024 9:00:00	Peak Integrated by Software
HSTDCCC750	PS028406.D	2,4-D #2	Abdul	11/12/2024 3:48:55 PM	Ankita	11/12/2024 4:00:08	Peak Integrated by Software
P4602-44MS	PS028408.D	2,4-DB #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	4-Nitrophenol #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	Dalapon #2	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-44MS	PS028408.D	DINOSEB	Abdul	11/12/2024 9:01:13 AM	Ankita	11/12/2024 9:04:06	Peak Integrated by Software
P4602-45MSD	PS028409.D	2,4-DB #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	4-Nitrophenol #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	Dalapon #2	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
P4602-45MSD	PS028409.D	DINOSEB	Abdul	11/12/2024 9:01:15 AM	Ankita	11/12/2024 9:04:08	Peak Integrated by Software
HSTDCCC750	PS028418.D	2,4-DB #2	Abdul	11/12/2024 3:48:58 PM	Ankita	11/12/2024 4:00:10	Peak Integrated by Software
HSTDCCC750	PS028418.D	2,4-DCAA	Abdul	11/12/2024 3:48:58 PM	Ankita	11/12/2024 4:00:10	Peak Integrated by Software
HSTDCCC750	PS028442.D	2,4-D #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software

Manual Integration Report

Sequence:

ps111124

Instrument

ECD_s

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
HSTDCCC750	PS028442.D	2,4-DB #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028442.D	4-Nitrophenol #2	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028442.D	DCPA	Abdul	11/12/2024 3:50:02 PM	Ankita	11/12/2024 4:00:20	Peak Integrated by Software
HSTDCCC750	PS028448.D	2,4-D #2	Abdul	11/12/2024 3:50:20 PM	Ankita	11/12/2024 4:00:24	Peak Integrated by Software
HSTDCCC750	PS028448.D	4-Nitrophenol #2	Abdul	11/12/2024 3:50:20 PM	Ankita	11/12/2024 4:00:24	Peak Integrated by Software

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM
SubDirectory	PS110524	HP Acquire Method	HP Processing Method ps110524 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	PS028216.D	05 Nov 2024 16:59	AR\AJ	Ok
2	I.BLK	PS028217.D	05 Nov 2024 17:23	AR\AJ	Ok
3	HSTDICC200	PS028218.D	05 Nov 2024 17:47	AR\AJ	Ok,M
4	HSTDICC500	PS028219.D	05 Nov 2024 18:11	AR\AJ	Ok,M
5	HSTDICC750	PS028220.D	05 Nov 2024 18:36	AR\AJ	Ok
6	HSTDICC1000	PS028221.D	05 Nov 2024 18:59	AR\AJ	Ok,M
7	HSTDICC1500	PS028222.D	05 Nov 2024 19:23	AR\AJ	Ok
8	HSTDICV750	PS028223.D	05 Nov 2024 19:48	AR\AJ	Ok
9	I.BLK	PS028224.D	05 Nov 2024 20:12	AR\AJ	Ok
10	HSTDCCC750	PS028225.D	05 Nov 2024 20:36	AR\AJ	Ok
11	P4663-02	PS028226.D	05 Nov 2024 21:00	AR\AJ	Ok,M
12	P4663-04	PS028227.D	05 Nov 2024 21:24	AR\AJ	Ok,M
13	P4663-06	PS028228.D	05 Nov 2024 21:48	AR\AJ	Ok,M
14	P4663-08	PS028229.D	05 Nov 2024 22:12	AR\AJ	Ok,M
15	PB164641BL	PS028230.D	05 Nov 2024 22:36	AR\AJ	Ok,M
16	PB164641BS	PS028231.D	05 Nov 2024 23:00	AR\AJ	Ok,M
17	P4640-01	PS028232.D	05 Nov 2024 23:24	AR\AJ	Ok,M
18	P4643-01	PS028233.D	05 Nov 2024 23:48	AR\AJ	Ok,M
19	P4643-05	PS028234.D	06 Nov 2024 00:12	AR\AJ	Ok,M
20	P4643-09	PS028235.D	06 Nov 2024 00:36	AR\AJ	ReRun
21	I.BLK	PS028236.D	06 Nov 2024 01:00	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QCBatch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM
SubDirectory	PS110524	HP Acquire Method	HP Processing Method ps110524 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		

22	HSTDCCC750	PS028237.D	06 Nov 2024 01:24	AR\AJ	Ok
23	P4645-01	PS028238.D	06 Nov 2024 01:48	AR\AJ	Ok,M
24	P4659-01	PS028239.D	06 Nov 2024 02:12	AR\AJ	Ok,M
25	P4602-43	PS028240.D	06 Nov 2024 04:36	AR\AJ	Not Ok
26	P4602-44MS	PS028241.D	06 Nov 2024 05:00	AR\AJ	Not Ok
27	P4602-45MSD	PS028242.D	06 Nov 2024 05:24	AR\AJ	Not Ok
28	PB164519BL	PS028243.D	06 Nov 2024 05:48	AR\AJ	Not Ok
29	PB164519BS	PS028244.D	06 Nov 2024 06:12	AR\AJ	Not Ok
30	PB164393TB	PS028245.D	06 Nov 2024 06:36	AR\AJ	Not Ok
31	P4578-06	PS028246.D	06 Nov 2024 07:00	AR\AJ	Not Ok
32	I.BLK	PS028247.D	06 Nov 2024 07:24	AR\AJ	Ok
33	HSTDCCC750	PS028248.D	06 Nov 2024 07:48	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM
SubDirectory	PS110924	HP Acquire Method	HP Processing Method ps110924 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	PS028354.D	08 Nov 2024 14:00	AR\AJ	Ok
2	I.BLK	PS028355.D	08 Nov 2024 14:25	AR\AJ	Ok
3	HSTDICC200	PS028356.D	08 Nov 2024 15:13	AR\AJ	Ok
4	HSTDICC500	PS028357.D	08 Nov 2024 15:46	AR\AJ	Ok,M
5	HSTDICC750	PS028358.D	08 Nov 2024 16:10	AR\AJ	Ok
6	HSTDICC1000	PS028359.D	08 Nov 2024 16:34	AR\AJ	Ok
7	HSTDICC1500	PS028360.D	08 Nov 2024 16:58	AR\AJ	Ok
8	HSTDICV750	PS028361.D	08 Nov 2024 17:22	AR\AJ	Ok
9	I.BLK	PS028362.D	08 Nov 2024 17:46	AR\AJ	Ok,M
10	HSTDCCC750	PS028363.D	08 Nov 2024 18:10	AR\AJ	Ok
11	P4700-01	PS028364.D	08 Nov 2024 18:34	AR\AJ	Ok,M
12	P4701-01	PS028365.D	08 Nov 2024 18:58	AR\AJ	Ok,M
13	P4701-05	PS028366.D	08 Nov 2024 19:22	AR\AJ	Ok
14	PB164754BL	PS028367.D	08 Nov 2024 19:46	AR\AJ	Ok
15	PB164754BS	PS028368.D	08 Nov 2024 20:10	AR\AJ	Ok,M
16	P4722-03	PS028369.D	08 Nov 2024 20:34	AR\AJ	Not Ok
17	P4722-08	PS028370.D	08 Nov 2024 20:58	AR\AJ	Ok,M
18	P4722-13	PS028371.D	08 Nov 2024 21:22	AR\AJ	Not Ok
19	P4739-01	PS028372.D	08 Nov 2024 21:46	AR\AJ	Ok,M
20	P4739-01MS	PS028373.D	08 Nov 2024 22:10	AR\AJ	Ok,M
21	P4739-01MSD	PS028374.D	08 Nov 2024 22:34	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM
SubDirectory	PS110924	HP Acquire Method	HP Processing Method ps110924 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			

22	P4739-05	PS028375.D	08 Nov 2024 22:58	AR\AJ	Ok
23	P4739-09	PS028376.D	08 Nov 2024 23:22	AR\AJ	Ok,M
24	P4739-13	PS028377.D	08 Nov 2024 23:46	AR\AJ	Ok,M
25	I.BLK	PS028378.D	09 Nov 2024 00:10	AR\AJ	Ok
26	HSTDCCC750	PS028379.D	09 Nov 2024 00:34	AR\AJ	Ok
27	P4601-24RE	PS028380.D	09 Nov 2024 00:58	AR\AJ	Not Ok
28	P4601-25RE	PS028381.D	09 Nov 2024 01:22	AR\AJ	Not Ok
29	P4601-26RE	PS028382.D	09 Nov 2024 01:46	AR\AJ	Not Ok
30	P4602-43	PS028383.D	09 Nov 2024 02:10	AR\AJ	Not Ok
31	P4602-44MS	PS028384.D	09 Nov 2024 02:34	AR\AJ	Not Ok
32	P4602-45MSD	PS028385.D	09 Nov 2024 02:58	AR\AJ	Not Ok
33	P4602-40	PS028386.D	09 Nov 2024 03:22	AR\AJ	Not Ok
34	P4602-41MS	PS028387.D	09 Nov 2024 03:46	AR\AJ	Not Ok
35	P4602-42MSD	PS028388.D	09 Nov 2024 04:10	AR\AJ	Not Ok
36	PB164393TB	PS028389.D	09 Nov 2024 04:34	AR\AJ	Not Ok
37	I.BLK	PS028390.D	09 Nov 2024 04:58	AR\AJ	Not Ok
38	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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	PS028392.D	11 Nov 2024 10:00	AR\AJ	Ok
2	I.BLK	PS028393.D	11 Nov 2024 10:24	AR\AJ	Ok
3	HSTDCCC750	PS028394.D	11 Nov 2024 10:48	AR\AJ	Ok,M
4	P4601-29	PS028395.D	11 Nov 2024 12:05	AR\AJ	Ok
5	P4601-30	PS028396.D	11 Nov 2024 12:29	AR\AJ	Ok
6	P4601-31	PS028397.D	11 Nov 2024 12:56	AR\AJ	Ok
7	P4601-32	PS028398.D	11 Nov 2024 13:20	AR\AJ	Ok
8	P4601-33	PS028399.D	11 Nov 2024 13:44	AR\AJ	Ok,M
9	P4601-34	PS028400.D	11 Nov 2024 14:08	AR\AJ	Ok,M
10	P4601-35	PS028401.D	11 Nov 2024 14:32	AR\AJ	Ok,M
11	P4601-36	PS028402.D	11 Nov 2024 14:57	AR\AJ	Ok,M
12	P4601-37MS	PS028403.D	11 Nov 2024 15:21	AR\AJ	Ok,M
13	P4601-38MSD	PS028404.D	11 Nov 2024 15:45	AR\AJ	Ok,M
14	I.BLK	PS028405.D	11 Nov 2024 16:09	AR\AJ	Ok
15	HSTDCCC750	PS028406.D	11 Nov 2024 16:33	AR\AJ	Ok,M
16	P4602-43	PS028407.D	11 Nov 2024 16:57	AR\AJ	Ok
17	P4602-44MS	PS028408.D	11 Nov 2024 17:21	AR\AJ	Ok,M
18	P4602-45MSD	PS028409.D	11 Nov 2024 17:45	AR\AJ	Ok,M
19	P4602-40	PS028410.D	11 Nov 2024 18:10	AR\AJ	Ok
20	P4602-41MS	PS028411.D	11 Nov 2024 18:34	AR\AJ	Ok,M
21	P4602-42MSD	PS028412.D	11 Nov 2024 18:58	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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			

22	PB164393TB	PS028413.D	11 Nov 2024 19:22	AR\AJ	Ok
23	PB164725BL	PS028414.D	11 Nov 2024 19:46	AR\AJ	Ok
24	PB164725BS	PS028415.D	11 Nov 2024 20:10	AR\AJ	Ok,M
25	P4602-19	PS028416.D	11 Nov 2024 20:34	AR\AJ	Ok,M
26	I.BLK	PS028417.D	11 Nov 2024 20:58	AR\AJ	Ok
27	HSTDCCC750	PS028418.D	11 Nov 2024 21:22	AR\AJ	Ok,M
28	P4602-21	PS028419.D	11 Nov 2024 21:46	AR\AJ	Ok,M
29	P4602-22	PS028420.D	11 Nov 2024 22:10	AR\AJ	Ok,M
30	P4602-23	PS028421.D	11 Nov 2024 22:34	AR\AJ	Ok
31	P4602-24	PS028422.D	11 Nov 2024 22:58	AR\AJ	Ok,M
32	P4602-25	PS028423.D	11 Nov 2024 23:22	AR\AJ	Ok,M
33	P4602-26	PS028424.D	11 Nov 2024 23:46	AR\AJ	Ok,M
34	P4602-27	PS028425.D	12 Nov 2024 00:10	AR\AJ	Ok,M
35	P4602-28	PS028426.D	12 Nov 2024 00:34	AR\AJ	Not Ok
36	P4602-29	PS028427.D	12 Nov 2024 00:58	AR\AJ	Ok,M
37	P4602-30	PS028428.D	12 Nov 2024 01:23	AR\AJ	Ok,M
38	I.BLK	PS028429.D	12 Nov 2024 01:47	AR\AJ	Ok
39	HSTDCCC750	PS028430.D	12 Nov 2024 02:11	AR\AJ	Ok
40	P4602-33	PS028431.D	12 Nov 2024 02:35	AR\AJ	Ok,M
41	P4602-34	PS028432.D	12 Nov 2024 02:59	AR\AJ	Ok,M
42	P4602-31	PS028433.D	12 Nov 2024 03:23	AR\AJ	Ok,M
43	P4602-32	PS028434.D	12 Nov 2024 03:47	AR\AJ	Ok,M
44	P4602-37	PS028435.D	12 Nov 2024 04:11	AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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		

45	P4602-38MS	PS028436.D	12 Nov 2024 04:35	AR\AJ	Ok,M
46	P4602-39MSD	PS028437.D	12 Nov 2024 04:59	AR\AJ	Ok,M
47	P4722-03	PS028438.D	12 Nov 2024 05:23	AR\AJ	Ok
48	P4722-13	PS028439.D	12 Nov 2024 05:47	AR\AJ	Ok
49	P4738-02	PS028440.D	12 Nov 2024 06:11	AR\AJ	Ok
50	I.BLK	PS028441.D	12 Nov 2024 06:35	AR\AJ	Ok
51	HSTDCCC750	PS028442.D	12 Nov 2024 06:59	AR\AJ	Ok,M
52	P4789-01	PS028443.D	12 Nov 2024 07:23	AR\AJ	Ok
53	P4792-03	PS028444.D	12 Nov 2024 07:47	AR\AJ	Ok
54	P4738-02	PS028445.D	12 Nov 2024 08:11	AR\AJ	Ok
55	P4602-28	PS028446.D	12 Nov 2024 09:04	AR\AJ	Ok,M
56	I.BLK	PS028447.D	12 Nov 2024 09:28	AR\AJ	Ok
57	HSTDCCC750	PS028448.D	12 Nov 2024 09:52	AR\AJ	Ok,M

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM
SubDirectory	PS110524	HP Acquire Method	HP Processing Method ps110524 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	PS028216.D	05 Nov 2024 16:59		AR\AJ	Ok
2	I.BLK	I.BLK	PS028217.D	05 Nov 2024 17:23		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028218.D	05 Nov 2024 17:47		AR\AJ	Ok,M
4	HSTDICC500	HSTDICC500	PS028219.D	05 Nov 2024 18:11		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028220.D	05 Nov 2024 18:36		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028221.D	05 Nov 2024 18:59		AR\AJ	Ok,M
7	HSTDICC1500	HSTDICC1500	PS028222.D	05 Nov 2024 19:23		AR\AJ	Ok
8	HSTDICV750	ICVPS110524	PS028223.D	05 Nov 2024 19:48		AR\AJ	Ok
9	I.BLK	I.BLK	PS028224.D	05 Nov 2024 20:12		AR\AJ	Ok
10	HSTDCCC750	HSTDCCC750	PS028225.D	05 Nov 2024 20:36		AR\AJ	Ok
11	P4663-02	TENNANT-PAD-2-3-ST	PS028226.D	05 Nov 2024 21:00		AR\AJ	Ok,M
12	P4663-04	RES-BUILDING-PAD-N	PS028227.D	05 Nov 2024 21:24		AR\AJ	Ok,M
13	P4663-06	RES-BUILDING-PAD-N	PS028228.D	05 Nov 2024 21:48		AR\AJ	Ok,M
14	P4663-08	RES-BUILDING-PAD-N	PS028229.D	05 Nov 2024 22:12		AR\AJ	Ok,M
15	PB164641BL	PB164641BL	PS028230.D	05 Nov 2024 22:36		AR\AJ	Ok,M
16	PB164641BS	PB164641BS	PS028231.D	05 Nov 2024 23:00		AR\AJ	Ok,M
17	P4640-01	MH-3	PS028232.D	05 Nov 2024 23:24		AR\AJ	Ok,M
18	P4643-01	BP-F9-ADDITIONAL	PS028233.D	05 Nov 2024 23:48		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110524

Review By	Abdul	Review On	11/6/2024 10:27:27 AM
Supervise By	Ankita	Supervise On	11/6/2024 1:07:27 PM
SubDirectory	PS110524	HP Acquire Method	HP Processing Method ps110524 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	P4643-05	BP-F8	PS028234.D	06 Nov 2024 00:12		AR\AJ	Ok,M
20	P4643-09	TP-9	PS028235.D	06 Nov 2024 00:36	Surrogate Fail	AR\AJ	ReRun
21	I.BLK	I.BLK	PS028236.D	06 Nov 2024 01:00		AR\AJ	Ok,M
22	HSTDCCC750	HSTDCCC750	PS028237.D	06 Nov 2024 01:24	CCC failling in higher side	AR\AJ	Ok
23	P4645-01	Z-02-WC	PS028238.D	06 Nov 2024 01:48		AR\AJ	Ok,M
24	P4659-01	MH-2	PS028239.D	06 Nov 2024 02:12		AR\AJ	Ok,M
25	P4602-43	CC0R8	PS028240.D	06 Nov 2024 04:36		AR\AJ	Not Ok
26	P4602-44MS	CC0R8MS	PS028241.D	06 Nov 2024 05:00	Some compound recovery fail	AR\AJ	Not Ok
27	P4602-45MSD	CC0R8MSD	PS028242.D	06 Nov 2024 05:24	Some compound recovery fail	AR\AJ	Not Ok
28	PB164519BL	PB164519BL	PS028243.D	06 Nov 2024 05:48		AR\AJ	Not Ok
29	PB164519BS	PB164519BS	PS028244.D	06 Nov 2024 06:12	Some compound recovery fail	AR\AJ	Not Ok
30	PB164393TB	PB164393TB	PS028245.D	06 Nov 2024 06:36	Surrogate Fail	AR\AJ	Not Ok
31	P4578-06	WB-305-BOT	PS028246.D	06 Nov 2024 07:00		AR\AJ	Not Ok
32	I.BLK	I.BLK	PS028247.D	06 Nov 2024 07:24		AR\AJ	Ok
33	HSTDCCC750	HSTDCCC750	PS028248.D	06 Nov 2024 07:48	CCC failling in higher side	AR\AJ	Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM
SubDirectory	PS110924	HP Acquire Method	HP Processing Method ps110924 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	PS028354.D	08 Nov 2024 14:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028355.D	08 Nov 2024 14:25		AR\AJ	Ok
3	HSTDICC200	HSTDICC200	PS028356.D	08 Nov 2024 15:13		AR\AJ	Ok
4	HSTDICC500	HSTDICC500	PS028357.D	08 Nov 2024 15:46		AR\AJ	Ok,M
5	HSTDICC750	HSTDICC750	PS028358.D	08 Nov 2024 16:10		AR\AJ	Ok
6	HSTDICC1000	HSTDICC1000	PS028359.D	08 Nov 2024 16:34		AR\AJ	Ok
7	HSTDICC1500	HSTDICC1500	PS028360.D	08 Nov 2024 16:58		AR\AJ	Ok
8	HSTDICV750	ICVPS110924	PS028361.D	08 Nov 2024 17:22		AR\AJ	Ok
9	I.BLK	I.BLK	PS028362.D	08 Nov 2024 17:46		AR\AJ	Ok,M
10	HSTDCCC750	HSTDCCC750	PS028363.D	08 Nov 2024 18:10		AR\AJ	Ok
11	P4700-01	MH-8	PS028364.D	08 Nov 2024 18:34		AR\AJ	Ok,M
12	P4701-01	BP-F3	PS028365.D	08 Nov 2024 18:58		AR\AJ	Ok,M
13	P4701-05	BP-F4	PS028366.D	08 Nov 2024 19:22		AR\AJ	Ok
14	PB164754BL	PB164754BL	PS028367.D	08 Nov 2024 19:46		AR\AJ	Ok
15	PB164754BS	PB164754BS	PS028368.D	08 Nov 2024 20:10		AR\AJ	Ok,M
16	P4722-03	WC-1(0-6)	PS028369.D	08 Nov 2024 20:34	2,4-DCAA low in both column	AR\AJ	Not Ok
17	P4722-08	WC-2(0-6)	PS028370.D	08 Nov 2024 20:58		AR\AJ	Ok,M
18	P4722-13	WC-3(0-6)	PS028371.D	08 Nov 2024 21:22	2,4-DCAA Low in both column	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM
SubDirectory	PS110924	HP Acquire Method	HP Processing Method ps110924 8151
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	P23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469		
CCC	PP23462		
Internal Standard/PEM	PP23469		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	P4739-01	TP-14	PS028372.D	08 Nov 2024 21:46		AR\AJ	Ok,M
20	P4739-01MS	TP-14MS	PS028373.D	08 Nov 2024 22:10	Some compound recovery fail	AR\AJ	Ok,M
21	P4739-01MSD	TP-14MSD	PS028374.D	08 Nov 2024 22:34	Some compound recovery fail	AR\AJ	Ok,M
22	P4739-05	BP-G2	PS028375.D	08 Nov 2024 22:58		AR\AJ	Ok
23	P4739-09	BP-B2	PS028376.D	08 Nov 2024 23:22		AR\AJ	Ok,M
24	P4739-13	TP-11	PS028377.D	08 Nov 2024 23:46		AR\AJ	Ok,M
25	I.BLK	I.BLK	PS028378.D	09 Nov 2024 00:10		AR\AJ	Ok
26	HSTDCCC750	HSTDCCC750	PS028379.D	09 Nov 2024 00:34		AR\AJ	Ok
27	P4601-24RE	CC0P1RE	PS028380.D	09 Nov 2024 00:58	Closing CCC fail,	AR\AJ	Not Ok
28	P4601-25RE	CC0P3RE	PS028381.D	09 Nov 2024 01:22	Closing CCC fail,	AR\AJ	Not Ok
29	P4601-26RE	CC0P5RE	PS028382.D	09 Nov 2024 01:46	Closing CCC fail,	AR\AJ	Not Ok
30	P4602-43	CC0R8	PS028383.D	09 Nov 2024 02:10	, Closing CCC fail	AR\AJ	Not Ok
31	P4602-44MS	CC0R8MS	PS028384.D	09 Nov 2024 02:34	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
32	P4602-45MSD	CC0R8MSD	PS028385.D	09 Nov 2024 02:58	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
33	P4602-40	CC0R6	PS028386.D	09 Nov 2024 03:22	Closing CCC fail	AR\AJ	Not Ok
34	P4602-41MS	CC0R6MS	PS028387.D	09 Nov 2024 03:46	Some compound recovery fail, Closing CCC fail	AR\AJ	Not Ok
35	P4602-42MSD	CC0R6MSD	PS028388.D	09 Nov 2024 04:10	Some compound recovery fail, RPD fail, Closing CCC fail	AR\AJ	Not Ok
36	PB164393TB	PB164393TB	PS028389.D	09 Nov 2024 04:34	Closing CCC fail	AR\AJ	Not Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS110924

Review By	Abdul	Review On	11/11/2024 5:07:36 PM
Supervise By	Ankita	Supervise On	11/12/2024 8:59:40 AM
SubDirectory	PS110924	HP Acquire Method	HP Processing Method ps110924 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

37	I.BLK	I.BLK	PS028390.D	09 Nov 2024 04:58	Closing CCC fail	AR\AJ	Not Ok
38	HSTDCCC750	HSTDCCC750	PS028391.D	09 Nov 2024 05:22	CCC fail	AR\AJ	Not Ok

M : Manual Integration

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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	PS028392.D	11 Nov 2024 10:00		AR\AJ	Ok
2	I.BLK	I.BLK	PS028393.D	11 Nov 2024 10:24		AR\AJ	Ok
3	HSTDCCC750	HSTDCCC750	PS028394.D	11 Nov 2024 10:48		AR\AJ	Ok,M
4	P4601-29	CC0Q1	PS028395.D	11 Nov 2024 12:05		AR\AJ	Ok
5	P4601-30	CC0Q6	PS028396.D	11 Nov 2024 12:29		AR\AJ	Ok
6	P4601-31	CC0Q8	PS028397.D	11 Nov 2024 12:56		AR\AJ	Ok
7	P4601-32	CC0R3	PS028398.D	11 Nov 2024 13:20		AR\AJ	Ok
8	P4601-33	CC0R4	PS028399.D	11 Nov 2024 13:44		AR\AJ	Ok,M
9	P4601-34	CC0R5	PS028400.D	11 Nov 2024 14:08		AR\AJ	Ok,M
10	P4601-35	CC0R6	PS028401.D	11 Nov 2024 14:32		AR\AJ	Ok,M
11	P4601-36	CC0R7	PS028402.D	11 Nov 2024 14:57		AR\AJ	Ok,M
12	P4601-37MS	CC0R7MS	PS028403.D	11 Nov 2024 15:21	some comp. recovery fail	AR\AJ	Ok,M
13	P4601-38MSD	CC0R7MSD	PS028404.D	11 Nov 2024 15:45	some comp. recovery fail	AR\AJ	Ok,M
14	I.BLK	I.BLK	PS028405.D	11 Nov 2024 16:09		AR\AJ	Ok
15	HSTDCCC750	HSTDCCC750	PS028406.D	11 Nov 2024 16:33		AR\AJ	Ok,M
16	P4602-43	CC0R8	PS028407.D	11 Nov 2024 16:57		AR\AJ	Ok
17	P4602-44MS	CC0R8MS	PS028408.D	11 Nov 2024 17:21		AR\AJ	Ok,M
18	P4602-45MSD	CC0R8MSD	PS028409.D	11 Nov 2024 17:45		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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	P4602-40	CC0R6	PS028410.D	11 Nov 2024 18:10		AR\AJ	Ok
20	P4602-41MS	CC0R6MS	PS028411.D	11 Nov 2024 18:34		AR\AJ	Ok,M
21	P4602-42MSD	CC0R6MSD	PS028412.D	11 Nov 2024 18:58		AR\AJ	Ok,M
22	PB164393TB	PB164393TB	PS028413.D	11 Nov 2024 19:22		AR\AJ	Ok
23	PB164725BL	PB164725BL	PS028414.D	11 Nov 2024 19:46		AR\AJ	Ok
24	PB164725BS	PB164725BS	PS028415.D	11 Nov 2024 20:10		AR\AJ	Ok,M
25	P4602-19	C0P17	PS028416.D	11 Nov 2024 20:34		AR\AJ	Ok,M
26	I.BLK	I.BLK	PS028417.D	11 Nov 2024 20:58		AR\AJ	Ok
27	HSTDCCC750	HSTDCCC750	PS028418.D	11 Nov 2024 21:22		AR\AJ	Ok,M
28	P4602-21	CC0P2	PS028419.D	11 Nov 2024 21:46		AR\AJ	Ok,M
29	P4602-22	CC0P4	PS028420.D	11 Nov 2024 22:10		AR\AJ	Ok,M
30	P4602-23	CC0P6	PS028421.D	11 Nov 2024 22:34		AR\AJ	Ok
31	P4602-24	CC0P8	PS028422.D	11 Nov 2024 22:58		AR\AJ	Ok,M
32	P4602-25	CC0Q0	PS028423.D	11 Nov 2024 23:22		AR\AJ	Ok,M
33	P4602-26	CC0Q2	PS028424.D	11 Nov 2024 23:46		AR\AJ	Ok,M
34	P4602-27	CC0Q3	PS028425.D	12 Nov 2024 00:10		AR\AJ	Ok,M
35	P4602-28	CC0Q4	PS028426.D	12 Nov 2024 00:34	injection error	AR\AJ	Not Ok
36	P4602-29	CC0Q5	PS028427.D	12 Nov 2024 00:58		AR\AJ	Ok,M
37	P4602-30	CC0Q7	PS028428.D	12 Nov 2024 01:23		AR\AJ	Ok,M

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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			

38	I.BLK	I.BLK	PS028429.D	12 Nov 2024 01:47		AR\AJ	Ok
39	HSTDCCC750	HSTDCCC750	PS028430.D	12 Nov 2024 02:11		AR\AJ	Ok
40	P4602-33	CC0R1	PS028431.D	12 Nov 2024 02:35		AR\AJ	Ok,M
41	P4602-34	CC0R2	PS028432.D	12 Nov 2024 02:59		AR\AJ	Ok,M
42	P4602-31	CC0Q9	PS028433.D	12 Nov 2024 03:23		AR\AJ	Ok,M
43	P4602-32	CC0R0	PS028434.D	12 Nov 2024 03:47		AR\AJ	Ok,M
44	P4602-37	CC0P0	PS028435.D	12 Nov 2024 04:11		AR\AJ	Ok,M
45	P4602-38MS	CC0P0MS	PS028436.D	12 Nov 2024 04:35	Some compound recovery fail	AR\AJ	Ok,M
46	P4602-39MSD	CC0P0MSD	PS028437.D	12 Nov 2024 04:59	Some compound recovery fail	AR\AJ	Ok,M
47	P4722-03	WC-1(0-6)	PS028438.D	12 Nov 2024 05:23		AR\AJ	Ok
48	P4722-13	WC-3(0-6)	PS028439.D	12 Nov 2024 05:47		AR\AJ	Ok
49	P4738-02	72-12018	PS028440.D	12 Nov 2024 06:11		AR\AJ	Ok
50	I.BLK	I.BLK	PS028441.D	12 Nov 2024 06:35		AR\AJ	Ok
51	HSTDCCC750	HSTDCCC750	PS028442.D	12 Nov 2024 06:59		AR\AJ	Ok,M
52	P4789-01	BP-F21	PS028443.D	12 Nov 2024 07:23		AR\AJ	Ok
53	P4792-03	OILY-STONE-DRUM	PS028444.D	12 Nov 2024 07:47		AR\AJ	Ok
54	P4738-02	72-12018	PS028445.D	12 Nov 2024 08:11		AR\AJ	Ok
55	P4602-28	CC0Q4	PS028446.D	12 Nov 2024 09:04		AR\AJ	Ok,M
56	I.BLK	I.BLK	PS028447.D	12 Nov 2024 09:28		AR\AJ	Ok

Instrument ID: ECD_S

Daily Analysis Runlog For Sequence/QC Batch ID # PS111124

Review By	yogesh	Review On	11/12/2024 5:16:17 AM
Supervise By	Ankita	Supervise On	11/12/2024 9:00:51 AM
SubDirectory	PS111124	HP Acquire Method	HP Processing Method ps110924 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			
57	HSTDCCC750	HSTDCCC750	PS028448.D
			12 Nov 2024 09:52
			ARIAJ
			Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4647-01	01A-01B-01C	1	1.00	1.00	2.00	2.00	100.0	caluk
P4658-01	B-131-1-SB02	2	1.16	8.56	9.72	5.57	51.5	
P4658-02	B-131-2-SB02	3	1.15	8.63	9.78	5.91	55.2	
P4658-03	B-131-3-SB02	4	1.14	8.37	9.51	5.83	56.0	
P4659-02	MH-2-EPH	5	1.14	8.59	9.73	8.7	88.0	
P4659-03	MH-2-VOC	6	1.16	8.70	9.86	8.83	88.2	
P4660-02	WC-TA2-01-C	7	1.13	8.76	9.89	8.92	88.9	
P4660-06	WC-WOOD-01-C	8	1.00	1.00	2.00	2.00	100.0	wood chips
P4660-10	WC-CONCRETE-01-C	9	1.14	8.55	9.69	9.03	92.3	
P4660-12	WC-CONCRETE-01-C	10	1.14	8.54	9.68	9.06	92.7	
P4661-01	102824-A	11	1.00	1.00	2.00	2.00	100.0	wipe sample
P4661-02	102824-B	12	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-01	102524-DRIP-A	13	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-02	102524-B	14	1.00	1.00	2.00	2.00	100.0	wipe sample
P4662-03	102524-C	15	1.00	1.00	2.00	2.00	100.0	wipe sample
P4663-01	TENNANT-PAD-2-3-STOCKPILE	16	1.14	8.75	9.89	9.1	91.0	
P4663-02	TENNANT-PAD-2-3-STOCKPILE	17	1.16	8.75	9.91	9.11	90.9	
P4663-03	RES-BUILDING-PAD-NO-11	18	1.16	8.74	9.9	9.19	91.9	
P4663-04	RES-BUILDING-PAD-NO-11	19	1.16	8.67	9.83	9.11	91.7	
P4663-05	RES-BUILDING-PAD-NO-3	20	1.15	8.61	9.76	8.94	90.5	
P4663-06	RES-BUILDING-PAD-NO-3	21	1.16	8.64	9.8	9.04	91.2	
P4663-07	RES-BUILDING-PAD-NO-2	22	1.16	8.46	9.62	8.41	85.7	
P4663-08	RES-BUILDING-PAD-NO-2	23	1.17	8.78	9.95	9.19	91.3	
P4667-01	BP-F-6	24	1.16	8.42	9.58	8.66	89.1	
P4667-02	BP-F-6-EPH	25	1.18	8.51	9.69	8.7	88.4	
P4667-03	BP-F-6-VOC	26	1.19	8.65	9.84	8.88	88.9	
P4667-05	BP-F-5	27	1.16	8.51	9.67	8.76	89.3	

PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4667-06	BP-F-5-EPH	28	1.16	8.52	9.68	8.76	89.2	
P4667-07	BP-F-5-VOC	29	1.17	8.64	9.81	8.79	88.2	
P4667-09	BP-F-10	30	1.17	8.78	9.95	8.98	89.0	
P4667-10	BP-F-10-EPH	31	1.17	8.54	9.71	8.84	89.8	
P4667-11	BP-F-10-VOC	32	1.16	8.81	9.97	9.06	89.7	
P4667-13	BP-F-7	33	1.16	8.71	9.87	8.91	89.0	
P4667-14	BP-F-7-EPH	34	1.17	8.44	9.61	8.57	87.7	
P4667-15	BP-F-7-VOC	35	1.18	8.42	9.6	8.72	89.5	
P4672-01	TAPLPR-SED06-103024-00-T2	36	1.19	8.65	9.84	7.71	75.4	
P4672-02	TAPLPR-SED07-103024-00-T2	37	1.19	8.47	9.66	8.48	86.1	
P4672-03	TAPLPR-SED03-103024-00-T2	38	1.19	8.68	9.87	8.31	82.0	
P4672-04	TAPLPR-SED04-103024-00-T2	39	1.19	8.77	9.96	8.77	86.4	
P4672-05	TAPLPR-SED05-103024-00-T2	40	1.18	8.62	9.8	8.41	83.9	
P4675-01	COMP-1	41	1.18	8.56	9.74	7.85	77.9	
P4675-02	COMP-2	42	1.19	8.48	9.67	8.46	85.7	
P4675-03	COMP-3	43	1.19	8.78	9.97	8.99	88.8	
P4675-04	COMP-4	44	1.18	8.71	9.89	8.4	82.9	
P4675-05	COMP-5	45	1.17	8.54	9.71	8.18	82.1	
P4675-06	COMP-6	46	1.17	8.70	9.87	8.24	81.3	
P4677-01	2410-6346	47	1.00	1.00	2.00	2.00	100.0	PAINT CHIPS
P4679-01	MH-1	48	1.18	8.80	9.98	8.98	88.6	
P4679-02	MH-1-EPH	49	1.19	8.58	9.77	8.65	86.9	
P4679-03	MH-1-VOC	50	1.19	8.62	9.81	8.72	87.4	
P4680-01	BP-F26	51	1.18	8.80	9.98	9.08	89.8	
P4680-02	BP-F26-EPH	52	1.18	8.44	9.62	8.71	89.2	
P4680-03	BP-F26-VOC	53	1.19	8.50	9.69	8.75	88.9	



PERCENT SOLID

Supervisor: jignesh
Analyst: Iwona
Date: 11/4/2024

OVENTEMP IN Celsius(°C): 107
Time IN: 15:15
In Date: 11/01/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:00
Out Date: 11/02/2024
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB133250

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
P4680-05	BP-F25	54	1.18	8.69	9.87	8.9	88.8	
P4680-06	BP-F25-EPH	55	1.19	8.79	9.98	8.91	87.8	
P4680-07	BP-F25-VOC	56	1.18	8.60	9.78	8.86	89.3	

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

WORKLIST(Hardcopy Internal Chain)

LB 133250

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4647-01	01A-01B-01C	Solid	Percent Solids	Cool 4 deg C	BSIG01	K61	10/31/2024	Chemtech -SO
P4658-01	B-131-1-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-02	B-131-2-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4658-03	B-131-3-SB02	Solid	Percent Solids	Cool 4 deg C	PORT06	K61	10/31/2024	Chemtech -SO
P4659-02	MH-2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4659-03	MH-2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4660-02	WC-TA2-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-06	WC-WOOD-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-10	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4660-12	WC-CONCRETE-01-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	K41	10/31/2024	Chemtech -SO
P4661-01	102824-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4661-02	102824-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4662-01	102524-DRIP-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-02	102524-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4662-03	102524-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	K61	10/31/2024	Chemtech -SO
P4663-01	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-03	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-05	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/24 15:30 Date/Time 11/01/24 17:30
 Raw Sample Received by: SO web Raw Sample Received by: cm
 Raw Sample Relinquished by: 050r Raw Sample Relinquished by: SO web

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124

WorkList ID : 185025

Department : Wet-Chemistry

Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4663-07	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Percent Solids	Cool 4 deg C	UNIO02	K41	10/31/2024	Chemtech -SO
P4667-01	BP-F-6	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-02	BP-F-6-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-03	BP-F-6-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-05	BP-F-5	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-06	BP-F-5-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-07	BP-F-5-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-09	BP-F-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-10	BP-F-10-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-11	BP-F-10-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-13	BP-F-7	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-14	BP-F-7-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4667-15	BP-F-7-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	K51	10/31/2024	Chemtech -SO
P4672-01	TAPLPR-SED06-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-02	TAPLPR-SED07-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-03	TAPLPR-SED03-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-04	TAPLPR-SED04-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4672-05	TAPLPR-SED05-103024-00-T2	Solid	Percent Solids	Cool 4 deg C	WEST04	K41	10/30/2024	Chemtech -SO
P4675-01	COMP-1	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-02	COMP-2	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO

Date/Time 11/01/2024 15:30
 Raw Sample Received by: JP WLC
 Raw Sample Relinquished by: ESR
 Date/Time 11/01/2024 18
 Raw Sample Received by: ESR
 Raw Sample Relinquished by: JP WLC

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %solid-110124 WorkList ID : 185025 Department : Wet-Chemistry Date : 11-01-2024 12:08:04

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4675-03	COMP-3	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-04	COMP-4	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-05	COMP-5	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4675-06	COMP-6	Solid	Percent Solids	Cool 4 deg C	POWE02	K41	10/31/2024	Chemtech -SO
P4677-01	2410-6346	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-01	MH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-02	MH-1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4679-03	MH-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L11	11/01/2024	Chemtech -SO
P4680-01	BP-F26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-02	BP-F26-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-03	BP-F26-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-05	BP-F25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-06	BP-F25-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO
P4680-07	BP-F25-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L12	11/01/2024	Chemtech -SO

Date/Time 11/01/24 15:30
 Raw Sample Received by: SO WCC
 Raw Sample Relinquished by: CSN

Date/Time 11/01/24 15:30
 Raw Sample Received by: CSN
 Raw Sample Relinquished by: SO WCC

SOP ID: M8151A-Herbicide-22

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: RJ

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 11/04/2024

Extraction Start Time : 09:51

Extraction End Date : 11/04/2024

Extraction End Time : 16:25

Concentration By: RS

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	PP23907
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	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	E3822
1:3 SULPHURIC ACID	N/A	EP2528
Ether	N/A	E3370
ISO OCTANE	N/A	E3554
METHANOL	N/A	V14150
Diazomethane	N/A	EP2529
Hexane	N/A	E3819
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

Envap ID: NEVAP-02

KD Bath Temperature: N/A

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/4/24	RJ (Ext. Lab)	RJ - Pest/PEB Lab
16:30	Preparation Group	Analysis Group

Analytical Method: M8151A-Herbicide-22

Concentration Date: 11/04/2024

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164641BL	HBLK641	Herbicide	30.02	N/A	ritesh	RUPESH	10			U1-1
PB164641BS	HLCS641	Herbicide	30.03	N/A	ritesh	RUPESH	10			2
P4602-43	CC0R8	Herbicide	30.07	N/A	ritesh	RUPESH	10			3
P4602-44	P4602-43MS	Herbicide	30.02	N/A	ritesh	RUPESH	10			4
P4602-45	P4602-43MSD	Herbicide	30.04	N/A	ritesh	RUPESH	10			5
P4640-01	MH-3	Herbicide	30.06	N/A	ritesh	RUPESH	10	D		6
P4643-01	BP-F9-ADDITIONAL	Herbicide	30.01	N/A	ritesh	RUPESH	10	D		U5-1
P4643-05	BP-F8	Herbicide	30.10	N/A	ritesh	RUPESH	10	D		2
P4643-09	TP-9	Herbicide	30.05	N/A	ritesh	RUPESH	10	D		3
P4645-01	Z-02-WC	Herbicide	30.03	N/A	ritesh	RUPESH	10	D		4
P4659-01	MH-2	Herbicide	30.09	N/A	ritesh	RUPESH	10	D		5
P4663-02	TENNANT-PAD-2-3-STOC KPILE	Herbicide	30.02	N/A	ritesh	RUPESH	10	D		6
P4663-04	RES-BUILDING-PAD-NO-1 1	Herbicide	30.04	N/A	ritesh	RUPESH	10	D		U4-1
P4663-06	RES-BUILDING-PAD-NO-3	Herbicide	30.05	N/A	ritesh	RUPESH	10	D		2
P4663-08	RES-BUILDING-PAD-NO-2	Herbicide	30.07	N/A	ritesh	RUPESH	10	D		3

* Extracts relinquished on the same date as received.



551
164601

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4640h WorkList ID : 185075 Department : Extraction Date : 11-04-2024 08:20:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4602-43	CC0R8	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4602-44	P4602-43MS	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4602-45	P4602-43MSD	Solid	Herbicide	Cool 4 deg C	TETR16	K61	10/23/2024	8151A
P4640-01	MH-3	Solid	Herbicide	Cool 4 deg C	PSEG03	K61	10/30/2024	8151A
P4643-01	BP-F9-ADDITIONAL	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4643-05	BP-F8	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4643-09	TP-9	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4645-01	Z-02-WC	Solid	Herbicide	Cool 4 deg C	PSEG03	K51	10/30/2024	8151A
P4659-01	MH-2	Solid	Herbicide	Cool 4 deg C	PSEG03	K63	10/31/2024	8151A
P4663-02	TENNANT-PAD-2-3-STOCKPIL	Solid	Herbicide	Cool 4 deg C	PSEG03	K61	10/31/2024	8151A
P4663-04	RES-BUILDING-PAD-NO-11	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A
P4663-06	RES-BUILDING-PAD-NO-3	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A
P4663-08	RES-BUILDING-PAD-NO-2	Solid	Herbicide	Cool 4 deg C	UNIO02	K41	10/31/2024	8151A

Date/Time11/4/249:45

Raw Sample Received by: RJ Goff (64)

Raw Sample Relinquished by: [Signature]

Date/Time11/6/2410:15

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: RJ (64 104)

Prep Standard - Chemical Standard Summary

Order ID : P4663
Test : Herbicide

Prepbatch ID : PB164641,
Sequence ID/Qc Batch ID: PS110424,PS110524,ps111124,

Standard ID :
EP2503,EP2538,PP23457,PP23458,PP23459,PP23460,PP23461,PP23462,PP23467,PP23468,PP23469,PP23699,PP23907,

Chemical ID :
E2865,E3370,E3551,E3754,E3788,E3793,E3794,E3815,M5037,M5892,P 11179,P12618,P12661,P12707,P12782,P12783,P13498,P13499,P13500,P13501,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								



<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
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<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
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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>
1848	5000/500000 PPB Herbicide Spike (Free Acid)	PP23699	09/24/2024	02/13/2025	Abdul Mirza	None	None	Ankita Jodhani
								10/01/2024

FROM 1.25000ml of P12782 + 1.25000ml of P12783 + 47.50000ml of E3788 = Final Quantity: 50.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
60	5000 PPB Herbicide Surg Spike (Free Acid)	PP23907	10/21/2024	04/04/2025	Abdul Mirza	None	None	Ankita Jodhani 10/22/2024
<u>FROM</u> 1.25000ml of P13498 + 1.25000ml of P13499 + 1.25000ml of P13500 + 1.25000ml of P13501 + 195.00000ml of E3815 = Final Quantity: 200.000 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	04/23/2025	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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32055 / Herbicide Mix, 500/8000, Standard #1 [methyl ester] 200ug/mL, hexane, 1mL/ampul	A0199693	12/17/2024	06/17/2024 / Abdul	07/14/2023 / Ankita	P12661

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agilent Technologies	HBM-8151A / Chlorinated Herbicide Mixtures, Free Acids	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 #
Restek	32049 / Herbicide, 8000 series, 515 Surrogate [free acid] 2,4-dichlorophenyl acetic acid, 1mL, 200ug/mL, MeOH	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13498

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	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13499

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	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13500

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	A0212676	04/21/2025	10/21/2024 / Abdul	08/16/2024 / yogesh	P13501

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

CHEMICAL RECEIPT LOG BOOK

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

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

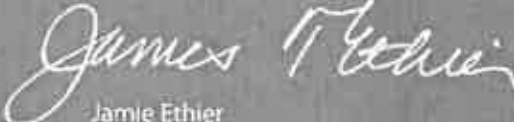
Certificate of Analysis

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,

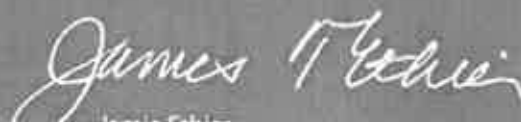
Test	Specification	Result
Assay ((C ₂ H ₅) ₂ O) (by GC, corrected for water)	>= 99.0 %	100.0
Alcohol (C ₂ H ₅ OH)	Passes Test	PT
Carbonyl Compounds (as HCHO) (by polarography)	<= 0.001 %	< 0.001
Color (APHA)	<= 10	< 5
Peroxide (as H ₂ O ₂)	<= 1 ppm	< 1
Preservative (BHT)	>= 7 ppm	9
Residue after Evaporation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



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

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

CERTIFICATE OF ANALYSIS

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

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

COMMENTS

QC: PhC Irma Belmares

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

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

RC-02-01, Ed. 3

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)	$\geq 99.5 \%$	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	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)	$\leq 0.05 \%$	< 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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date: 2027-05-24
Revision No.: 0

Certificate of Analysis

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

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

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

E3815

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

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

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

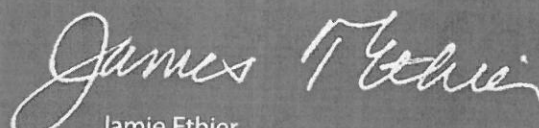
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

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:

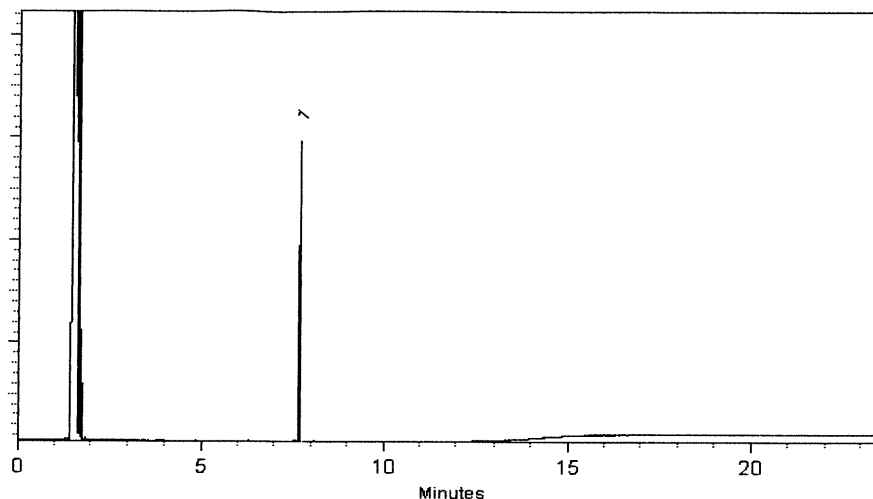
250°C

Det. Temp:

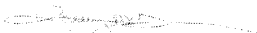
330°C

Det. Type:

FID

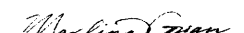


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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

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AR
11/02/21



CERTIFIED REFERENCE MATERIAL

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

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

CERTIFIED VALUES

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

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

P11177
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P11186
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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)
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P12620
✓ *Paul* =
7/5/2023

CERTIFIED VALUES

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

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

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

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

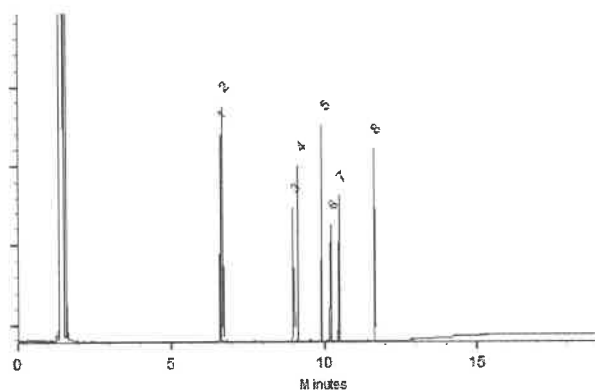
250°C

Det. Temp:

330°C

Det. Type:

FID



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

Michael Maje

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

Justine Albertson
Justine Albertson - Operations Tech-ARM QC

Date Passed: 18-Nov-2019

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



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
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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:

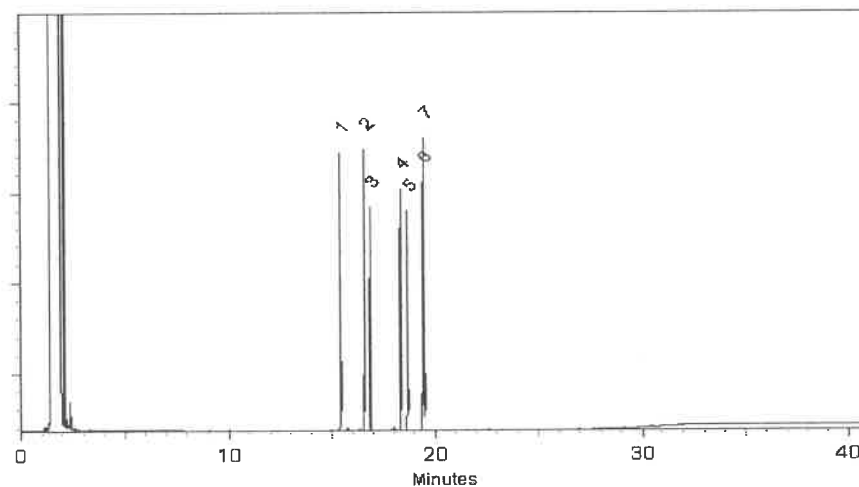
FID

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
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P12715
/ (10)
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/ 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.

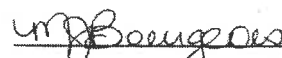
Expiration of Certification:

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)
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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

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P12785
✓
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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:

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

P12766 / (20)
↓
P12785 /
✓
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

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

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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.:** A0212676
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 : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

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%	200.0 µg/mL	+/- 2.7154

* 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.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

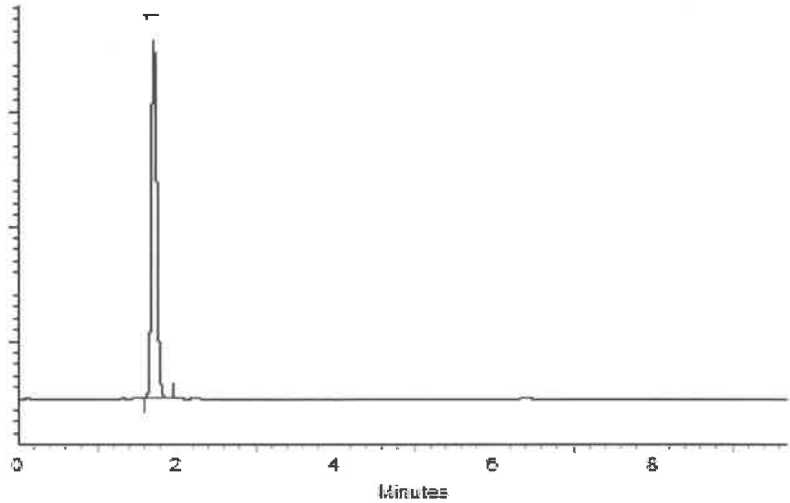
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

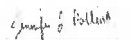


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32049 **Lot No.:** A0212676
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 : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

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%	200.0 µg/mL	+/- 2.7154

* 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.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

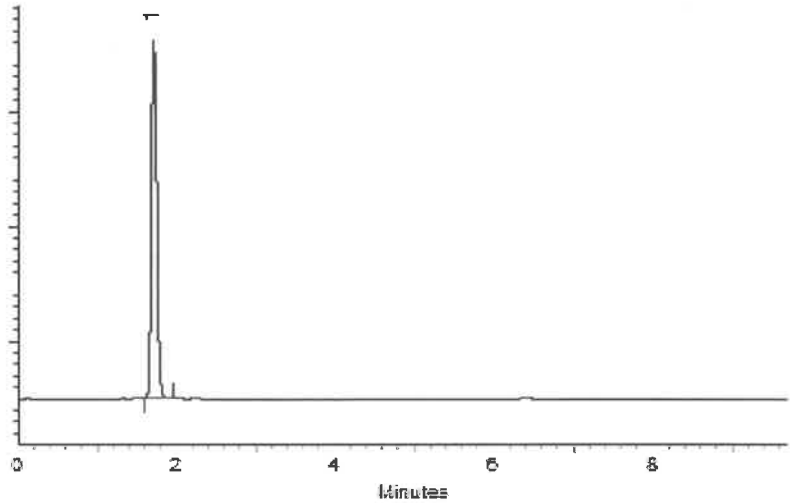
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

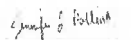


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32049 **Lot No.:** A0212676
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 : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

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%	200.0 µg/mL	+/- 2.7154

* 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.

Quality Confirmation Test

Column:
150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:
1.0 ml/min.

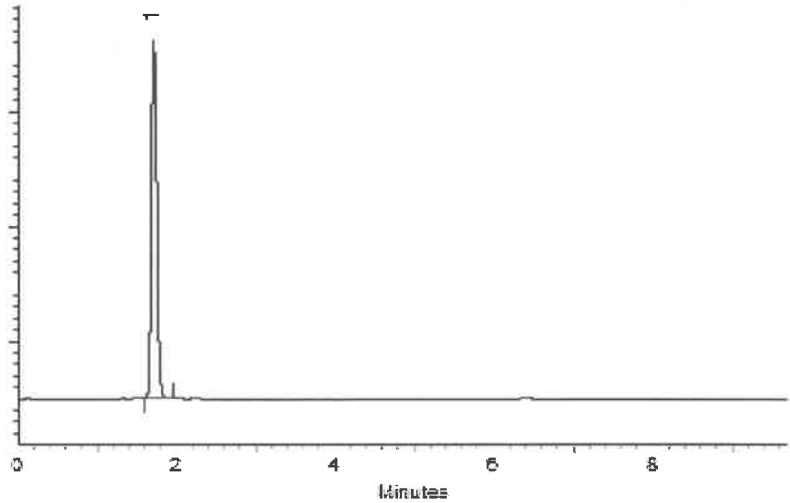
Mobile Phase A:
0.14% H₃PO₄ in water

Mobile Phase B:
acetonitrile

Mobile Phase Composition:
90%B Isocratic

Det. Type:
Wavelength: 220 & 254 nm

Inj. Vol
5µl

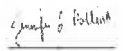


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

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- Purity values are rounded to the nearest whole number.

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 32049 **Lot No.:** A0212676
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 : March 31, 2027 **Storage:** 10°C or colder
Handling: This product is photosensitive. **Ship:** Ambient

P13697 } Y.P.
↓
P13515 } 08/15/24

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%	200.0 µg/mL	+/- 2.7154

* 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.

Quality Confirmation Test

Column:

150mm x 4.6mm
Allure C18 Cat. (#9164565)

Flow Rate:

1.0 ml/min.

Mobile Phase A:

0.14% H₃PO₄ in water

Mobile Phase B:

acetonitrile

Mobile Phase Composition:

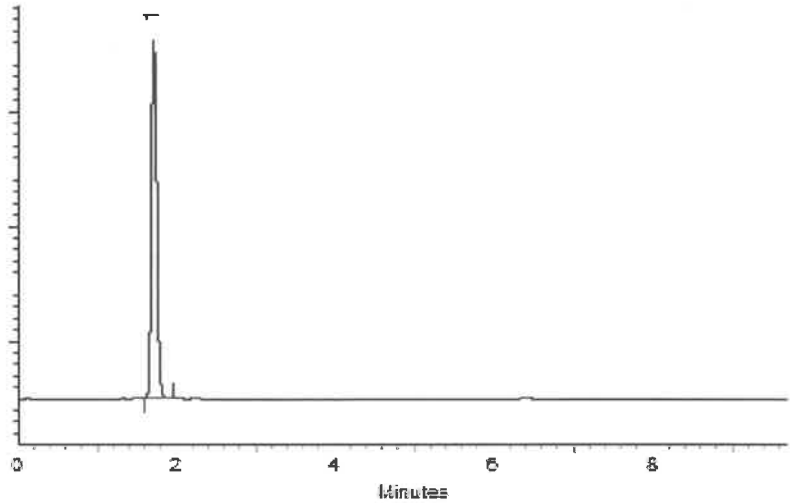
90%B Isocratic

Det. Type:

Wavelength: 220 & 254 nm

Inj. Vol

5µl

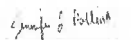


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Ethan Winiarski - Operations Tech I

Date Mixed: 11-Jun-2024

Balance Serial # B345965662


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
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- Purity of isomeric compounds is reported as the sum of the isomers.
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Certified Uncertainty Value Notes:

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k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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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 CAS # 17640-02-7 Purity 98% (Lot 1764600)	999.6 µg/mL	+/- 10.0697 µg/mL Gravimetric +/- 34.4896 µg/mL Unstressed +/- 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:

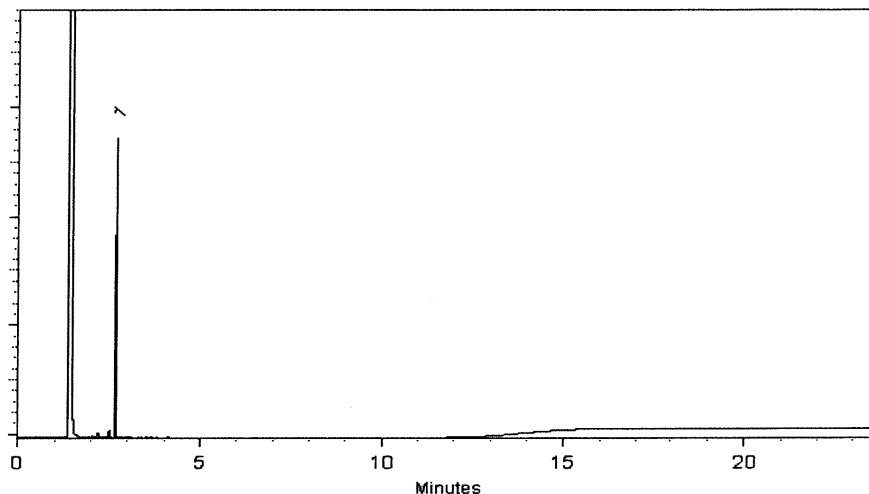
250°C

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

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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:

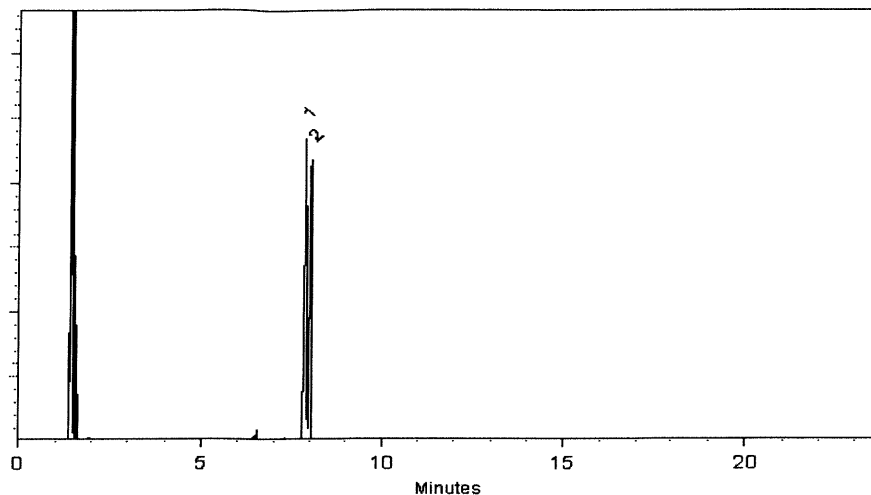
250°C

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

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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	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric	
	CAS # 55954-23-9 (Lot CSC42194-01)		+/- 6.7507	µg/mL	Unstressed	
	Purity 99%		+/- 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:

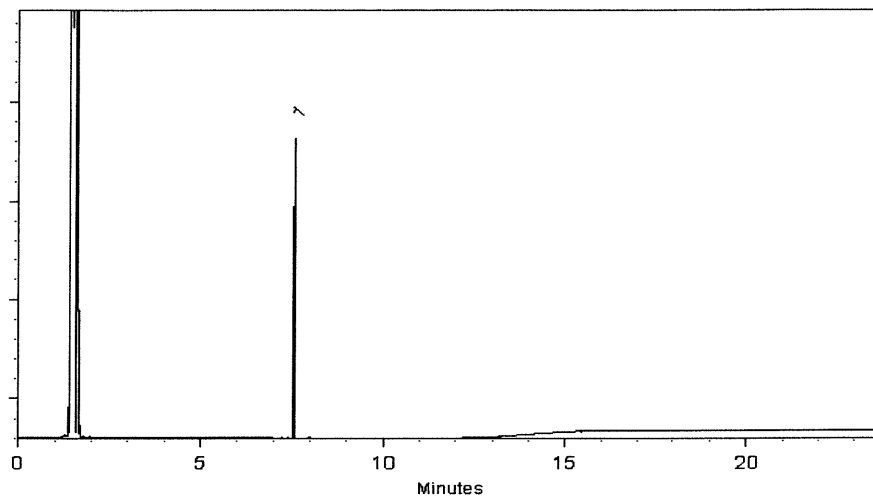
250°C

Det. Temp:

330°C

Det. Type:

FID



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.

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.

QUOTE NO.

COC Number 2042152

P4663

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Union Paving & Construction Co

ADDRESS: 891 RT 10 E

CITY Whippany STATE: NJ ZIP:

ATTENTION: Gregory B

PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME:

PROJECT NO.: LOCATION:

PROJECT MANAGER: Gregory B

e-mail:

PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:

ADDRESS:

CITY STATE: ZIP:

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): _____ DAYS*
EDD: _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS 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 _____

Clean Air VOCs
1 2 3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		E	B								
1.	Tennant Pad 2/3 Stockpile	SoL	X		10/31/24	1245	4	X									
2.	Tennant Pad 2/3 Stockpile			X		1250	4		X								0.0 ppm
3.	Res Building Pad No. 11		X			1300	4	X									
4.	Res Building Pad No. 11			X		1304	4		X								0.0 ppm
5.	Res Building Pad No. 3		X			1320	4	X									
6.	Res Building Pad No. 3			X		1326	4		X								0.0 ppm
7.	Res Building Pad No. 2		X			1335	4	X									
8.	Res Building Pad No. 2			X		1339	4		X								0.0 ppm
9.																	
10.																	

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

RELINQUISHED BY SAMPLER: 1. <i>[Signature]</i>	DATE/TIME: 1355 10-31-24	RECEIVED BY: 1. <i>[Signature]</i>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☒ COOLER TEMP 2.3 °C
RELINQUISHED BY SAMPLER: 2. <i>[Signature]</i>	DATE/TIME:	RECEIVED BY: 2. <i>[Signature]</i>	Comments: PID Calibration 10-31-24
RELINQUISHED BY SAMPLER: 3. <i>[Signature]</i>	DATE/TIME: 1645 10-31-24	RECEIVED BY: 3. <i>[Signature]</i>	Page 1 of 1 CLIENT: ☐ Hand Delivered ☐ Other CHEMTECH: ☐ Picked Up ☒ Field Sampling Shipment Complete ☒ YES ☐ NO



Environmental Laboratory

www.chemtech.net | EMAIL: PM@chemtech.net

Project Name: Union Paving & Construction Co
Service Order #: 10-31-24
Work Order #: 891 RT 10E
Labor WBS #: Whippary, NT
Facility/Site: Whippary, NT
Site Address: 891 RT 10E

Chemtech Order ID: QA 10-31-24
Sampler Name: Jeremy M Gregory
Client Project Coordinator & Phone: Gregory B
Page #: 1 of 1
Date: 10-31-24
Arrive Time: 1230
Depart Time: 1355

Waste Stream (circle one): drum / roll-off / soil pile / in-situ linear construction / frac-tank
Sample Matrices (circle all that apply): Water / Solid / NAPL / Concrete / Wipe

Collection Depths: 1 foot - 2 feet

Dimensions/CY: N/A

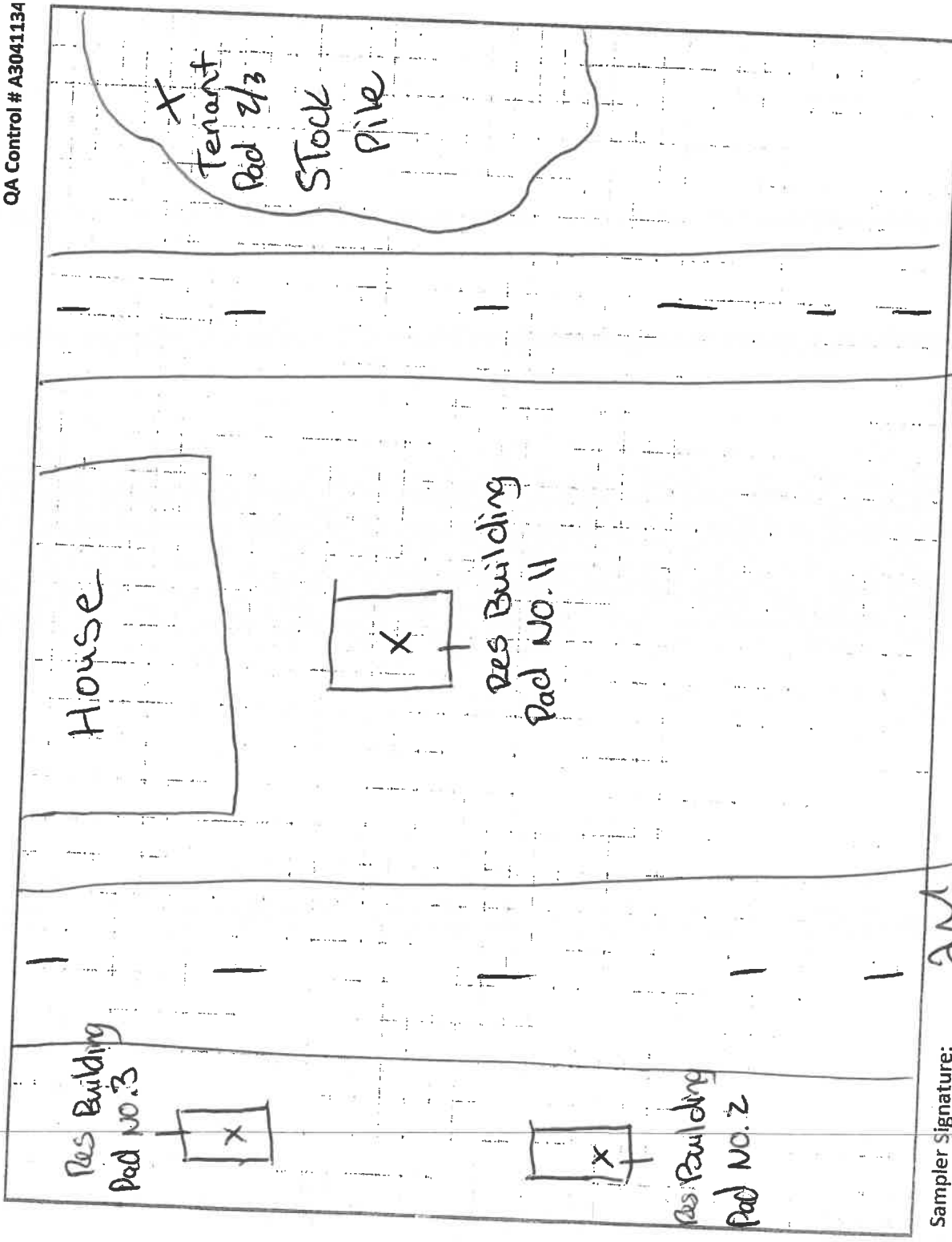
Temp (range): 2.3 °C PID Readings (range): PPM Odor: Y (N) Color: Y (N)

Sample Description: Brown Rocky Soil

Field Observations: 2 spots, (1) Excavation Stockpile (3) Test pits

Grid/Area Composite Map:

QA Control # A3041134



Sampler Signature: [Signature]

Client Signature: [Signature]

Supervisor Review/Date: _____

Date/Time Arrived at Lab: _____



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 (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P4663 UNIO02

Order Date : 10/31/2024 3:05:00 PM

Project Mgr :

Client Name : Union Paving & Constructio

Project Name : Rt. 10 Whippany

Report Type : Level 3

Client Contact : Gregory Butler

Receive DateTime : 10/31/2024 12:00:00 AM

EDD Type : Excel NJ

Invoice Name : Union Paving & Constructio

Purchase Order :

Hard Copy Date :

Invoice Contact : Gregory Butler

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P4663-01	TENNANT-PAD-2-3-STOCKPILE	Solid	10/31/2024	12:45	VOCMS Group1		8260D	3 Bus. Days	
P4663-03	RES-BUILDING-PAD-NO-11	Solid	10/31/2024	13:00	VOCMS Group1		8260D	3 Bus. Days	
P4663-05	RES-BUILDING-PAD-NO-3	Solid	10/31/2024	13:20	VOCMS Group1		8260D	3 Bus. Days	
P4663-07	RES-BUILDING-PAD-NO-2	Solid	10/31/2024	13:35	VOCMS Group1		8260D	3 Bus. Days	

Relinquished By :

Date / Time :

10-31-24 1710

Left inside
off SM fridge

Received By :

Date / Time :

11/01/24 12:00

Storage Area : VOA Refridgerator Room