284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

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LAB CHRONICLE

OrderID:	P5093	**OrderDate:**	12/4/2024 12:24:38 PM
Client:	R3M Engineering, Inc.	**Project:**	MC054.36 23-8-1 LM - Landing Lane New Brunswick
Contact:	Stacey L. Felts-Bock	**Location:**	L41,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5093-01	**LL-001**	**WATER**			**12/04/24**			**12/04/24**
			PCB	8082A		12/06/24	12/06/24	
			Pesticide-TCL	8081B		12/06/24	12/06/24	
P5093-02	**LL-001-FB-12-4-24**	**WATER**			**12/04/24**			**12/04/24**
			PCB	8082A		12/06/24	12/06/24	
			Pesticide-TCL	8081B		12/06/24	12/06/24	

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Hit Summary Sheet
SW-846

SDG No.: P5093 **Order ID:** P5093

Client: R3M Engineering, Inc. **Project ID:** MC054.36 23-8-1 LM - Landing Lane

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
			Total Concentration:	**0.000**				

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PD086944.D	PIBLK-PD086944.D	Decachlorobiphenyl	1	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	20.2	101		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	22.0	110		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.1	105		30 (77)	150 (126)
I.BLK-PD087056.D	PIBLK-PD087056.D	Decachlorobiphenyl	1	20	20.8	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.9	110		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.2	106		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	23.0	115		30 (77)	150 (126)
PB165431BL	PB165431BL	Decachlorobiphenyl	1	20	18.9	94		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.0	95		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.3	97		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.8	104		30 (77)	150 (126)
PB165431BS	PB165431BS	Decachlorobiphenyl	1	20	19.0	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.7	94		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.7	99		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.4	102		30 (77)	150 (126)
PB165431BSD	PB165431BSD	Decachlorobiphenyl	1	20	18.9	95		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.5	93		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	19.6	98		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.2	101		30 (77)	150 (126)
P5093-01	LL-001	Decachlorobiphenyl	1	20	10.1	51		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	18.6	93		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	10.6	53		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	20.0	100		30 (77)	150 (126)
P5093-02	LL-001-FB-12-4-24	Decachlorobiphenyl	1	20	15.5	77		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	19.5	97		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	16.2	81		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	21.0	105		30 (77)	150 (126)
I.BLK-PD087070.D	PIBLK-PD087070.D	Decachlorobiphenyl	1	20	20.9	104		30 (43)	150 (140)
		Tetrachloro-m-xylene	1	20	21.4	107		30 (77)	150 (126)
		Decachlorobiphenyl	2	20	21.4	107		30 (43)	150 (140)
		Tetrachloro-m-xylene	2	20	22.4	112		30 (77)	150 (126)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8081B **Datafile :** PD087059.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165431BS	alpha-BHC	0.5	0.51	ug/L	102				40 (85)	140 (130)	
	beta-BHC	0.5	0.51	ug/L	102				40 (83)	140 (126)	
	delta-BHC	0.5	0.49	ug/L	97				40 (69)	140 (141)	
	gamma-BHC (Lindane)	0.5	0.50	ug/L	100				40 (82)	140 (129)	
	Heptachlor	0.5	0.51	ug/L	102				40 (79)	140 (127)	
	Aldrin	0.5	0.49	ug/L	97				40 (79)	140 (126)	
	Heptachlor epoxide	0.5	0.49	ug/L	98				40 (81)	140 (124)	
	Endosulfan I	0.5	0.50	ug/L	100				40 (85)	140 (122)	
	Dieldrin	0.5	0.50	ug/L	100				40 (83)	140 (125)	
	4,4'-DDE	0.5	0.50	ug/L	100				40 (80)	140 (127)	
	Endrin	0.5	0.48	ug/L	96				40 (81)	140 (128)	
	Endosulfan II	0.5	0.50	ug/L	101				40 (82)	140 (123)	
	4,4'-DDD	0.5	0.51	ug/L	101				40 (77)	140 (131)	
	Endosulfan sulfate	0.5	0.48	ug/L	97				40 (76)	140 (129)	
	4,4'-DDT	0.5	0.48	ug/L	97				40 (80)	140 (133)	
	Methoxychlor	0.5	0.47	ug/L	94				40 (78)	140 (108)	
	Endrin ketone	0.5	0.48	ug/L	97				40 (80)	140 (131)	
	Endrin aldehyde	0.5	0.47	ug/L	95				40 (82)	140 (127)	
	alpha-Chlordane	0.5	0.50	ug/L	100				40 (82)	140 (125)	
	gamma-Chlordane	0.5	0.51	ug/L	102				40 (82)	140 (125)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5093

Client: R3M Engineering, Inc.

Analytical Method: 8081B **Datafile :** PD087060.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165431BSD	alpha-BHC	0.5	0.51	ug/L	101	1			40 (85)	140 (130)	20 (20)
	beta-BHC	0.5	0.51	ug/L	102	0			40 (83)	140 (126)	20 (20)
	delta-BHC	0.5	0.48	ug/L	96	1			40 (69)	140 (141)	20 (20)
	gamma-BHC (Lindane)	0.5	0.49	ug/L	99	1			40 (82)	140 (129)	20 (20)
	Heptachlor	0.5	0.50	ug/L	101	1			40 (79)	140 (127)	20 (20)
	Aldrin	0.5	0.48	ug/L	97	0			40 (79)	140 (126)	20 (20)
	Heptachlor epoxide	0.5	0.49	ug/L	97	1			40 (81)	140 (124)	20 (20)
	Endosulfan I	0.5	0.49	ug/L	99	1			40 (85)	140 (122)	20 (20)
	Dieldrin	0.5	0.50	ug/L	99	1			40 (83)	140 (125)	20 (20)
	4,4'-DDE	0.5	0.50	ug/L	99	1			40 (80)	140 (127)	20 (20)
	Endrin	0.5	0.48	ug/L	96	0			40 (81)	140 (128)	20 (20)
	Endosulfan II	0.5	0.50	ug/L	100	1			40 (82)	140 (123)	20 (20)
	4,4'-DDD	0.5	0.50	ug/L	100	1			40 (77)	140 (131)	20 (20)
	Endosulfan sulfate	0.5	0.48	ug/L	96	1			40 (76)	140 (129)	20 (20)
	4,4'-DDT	0.5	0.49	ug/L	98	1			40 (80)	140 (133)	20 (20)
	Methoxychlor	0.5	0.47	ug/L	94	0			40 (78)	140 (108)	20 (20)
	Endrin ketone	0.5	0.48	ug/L	96	1			40 (80)	140 (131)	20 (20)
	Endrin aldehyde	0.5	0.47	ug/L	94	1			40 (82)	140 (127)	20 (20)
	alpha-Chlordane	0.5	0.50	ug/L	99	1			40 (82)	140 (125)	20 (20)
	gamma-Chlordane	0.5	0.50	ug/L	101	1			40 (82)	140 (125)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165431BL

Lab Name: CHEMTECH Contract: RTHR01

Lab Code: CHEM Case No.: P5093 SAS No.: P5093 SDG NO.: P5093

Lab Sample ID: PB165431BL Lab File ID: PD087058.D

Matrix: (soil/water) WATER Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 12/06/2024

Date Analyzed (1): 12/06/2024 Date Analyzed (2): 12/06/2024

Time Analyzed (1): 15:10 Time Analyzed (2): 15:10

Instrument ID (1): ECD_D Instrument ID (2): ECD_D

GC Column (1): ZB-MR2 ID: 0.32 (mm) GC Column (2): ZB-MR1 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
PB165431BS	PB165431BS	PD087059.D	12/06/2024	12/06/2024
PB165431BSD	PB165431BSD	PD087060.D	12/06/2024	12/06/2024
LL-001	P5093-01	PD087061.D	12/06/2024	12/06/2024
LL-001-FB-12-4-24	P5093-02	PD087062.D	12/06/2024	12/06/2024

COMMENTS:

SAMPLE DATA

Raw Data: **PD087061.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087061.D	1	12/06/24 08:32	12/06/24 15:52	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	10.6		30 (43) - 150 (140)	53%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.0		30 (77) - 150 (126)	100%	SPK: 20

Raw Data: **PD087061.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001	SDG No.:	P5093
Lab Sample ID:	P5093-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087061.D	1	12/06/24 08:32	12/06/24 15:52	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Quantitation Report (QT Reviewed)

Sample Results: **PD087061.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:52
Operator : AR\AJ
Sample : P5093-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
LL-001

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:23:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA Tetrachlo...	3.557	2.884	37279528	229.0E6	18.642	20.007
28)	SA Decachlor...	9.087	8.087	32191234	147.4E6	10.120	10.577
	Target Compounds						

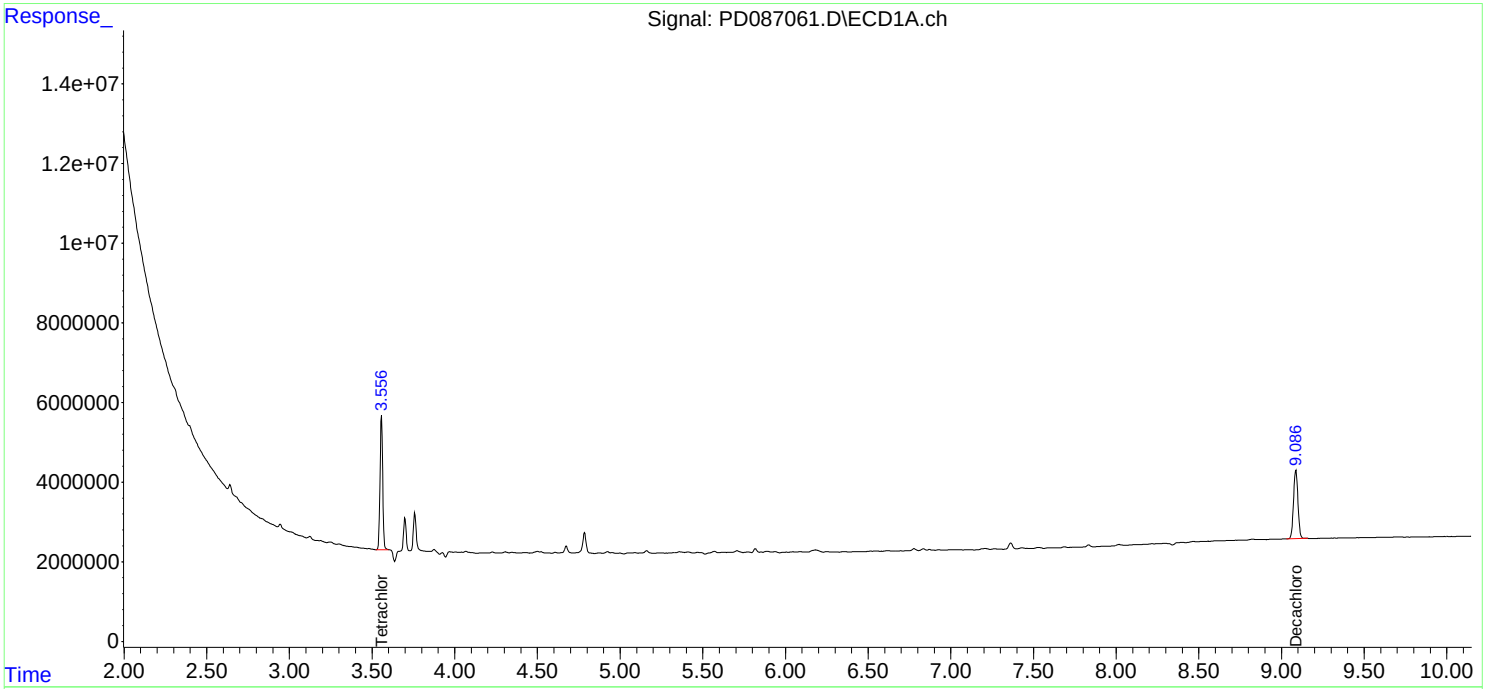
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

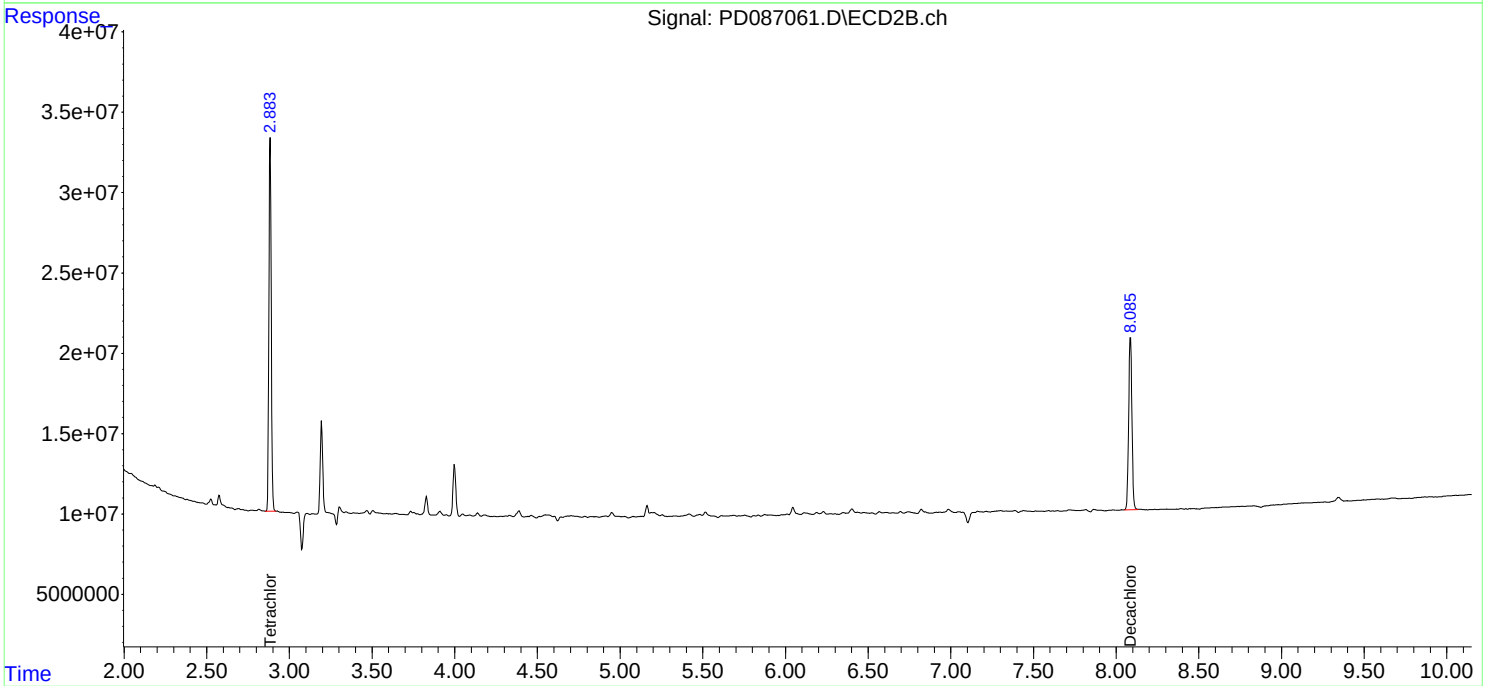
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087061.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:52
Operator : AR\AJ
Sample : P5093-01
Misc :
ALS Vial : 15 Sample Multiplier: 1

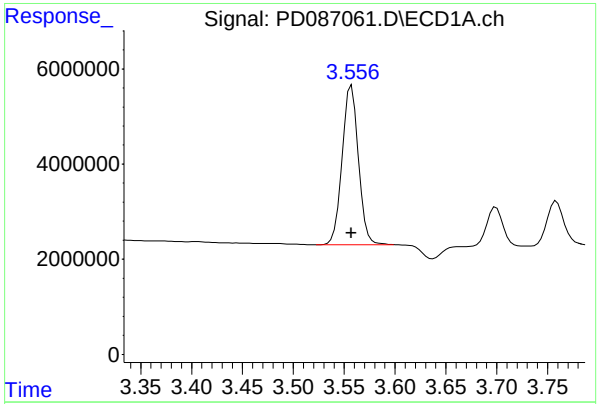
Instrument :
ECD_D
ClientSampleId :
LL-001

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:23:08 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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



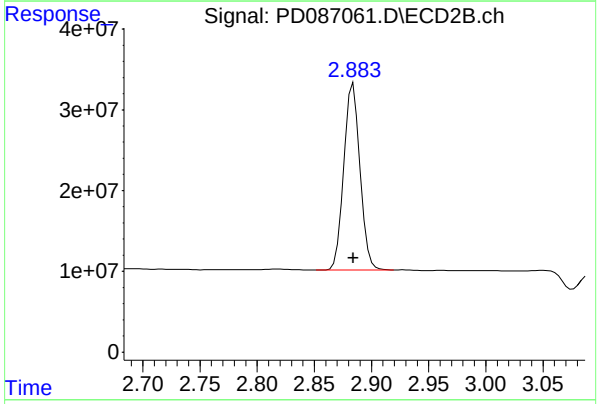




#1 Tetrachloro-m-xylene

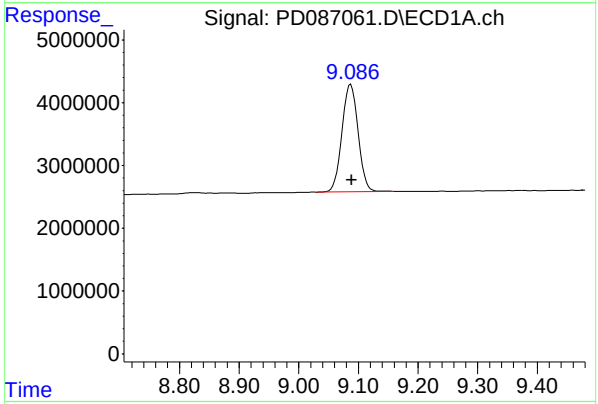
R.T.: 3.557 min
Delta R.T.: 0.000 min
Response: 37279528
Conc: 18.64 ng/ml

Instrument :
ECD_D
ClientSampleId :
LL-001



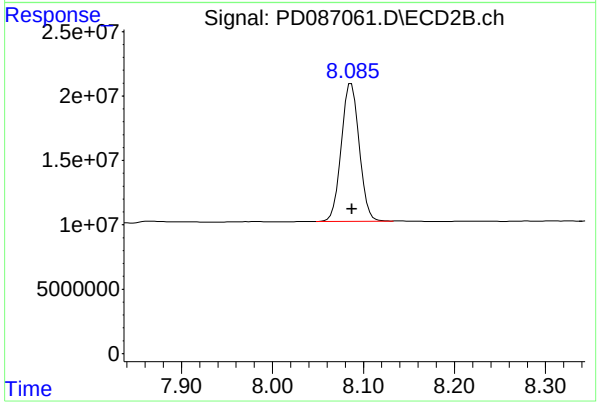
#1 Tetrachloro-m-xylene

R.T.: 2.884 min
Delta R.T.: 0.000 min
Response: 229004918
Conc: 20.01 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.087 min
Delta R.T.: -0.001 min
Response: 32191234
Conc: 10.12 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 147371906
Conc: 10.58 ng/ml

Raw Data: **PD087062.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087062.D	1	12/06/24 08:32	12/06/24 16:06	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.2		30 (43) - 150 (140)	81%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.0		30 (77) - 150 (126)	105%	SPK: 20

Raw Data: **PD087062.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/04/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/04/24
Client Sample ID:	LL-001-FB-12-4-24	SDG No.:	P5093
Lab Sample ID:	P5093-02	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087062.D	1	12/06/24 08:32	12/06/24 16:06	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_D\Data\PD120624\
Data File : PD087062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:06
Operator : AR\AJ
Sample : P5093-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
LL-001-FB-12-4-24

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:23:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA Tetrachlo...	3.557	2.884	38952131	240.5E6	19.478	21.014
28)	SA Decachlor...	9.088	8.086	49260967	225.9E6	15.486	16.216
	Target Compounds						

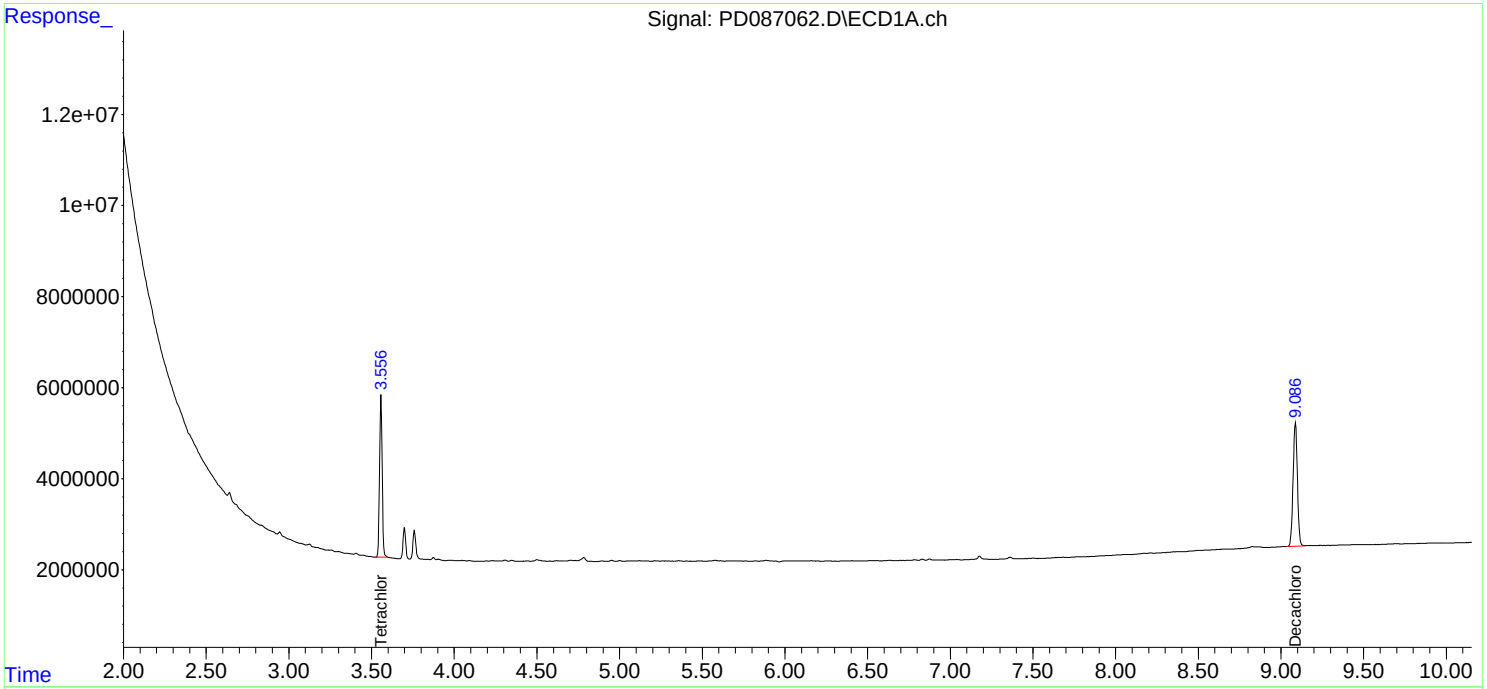
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

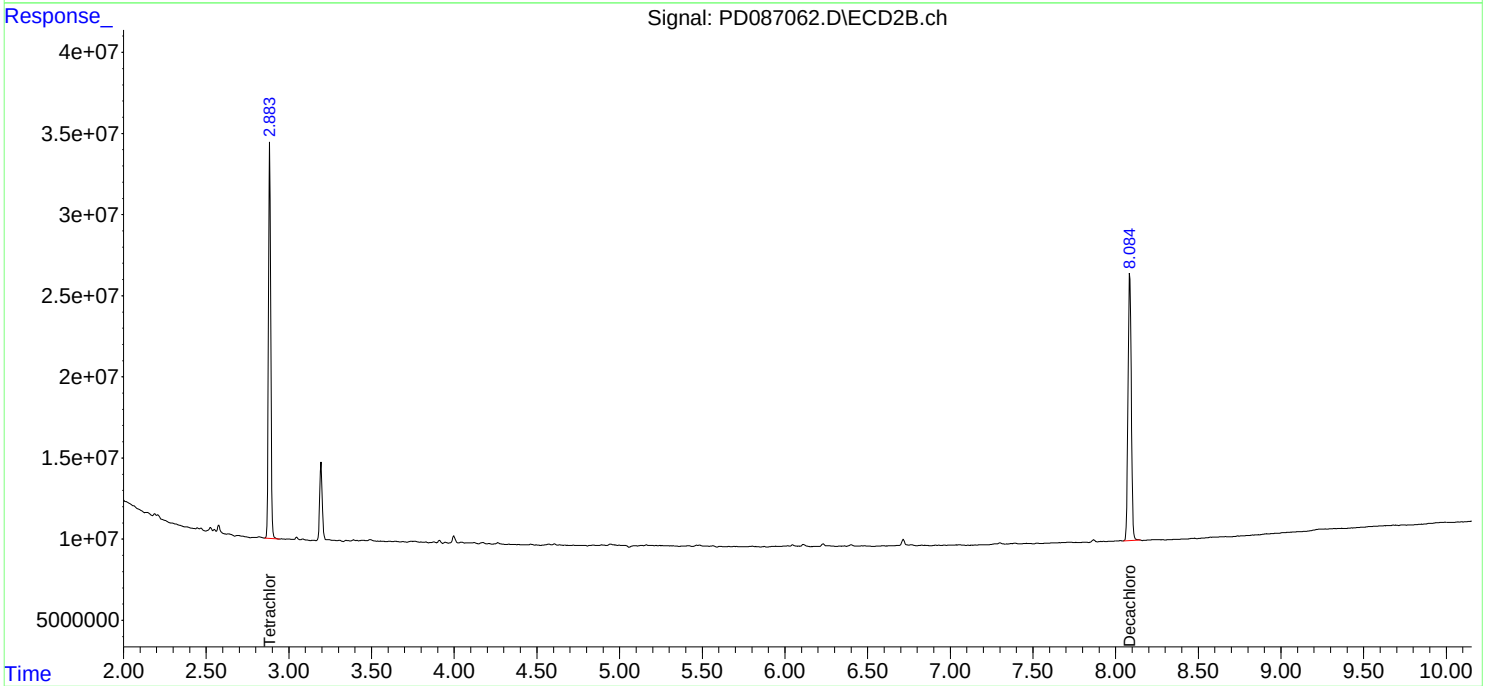
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087062.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 16:06
Operator : AR\AJ
Sample : P5093-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

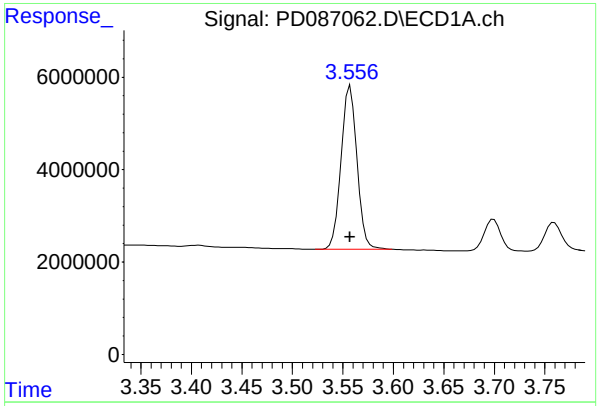
Instrument :
ECD_D
ClientSampleId :
LL-001-FB-12-4-24

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:23:24 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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



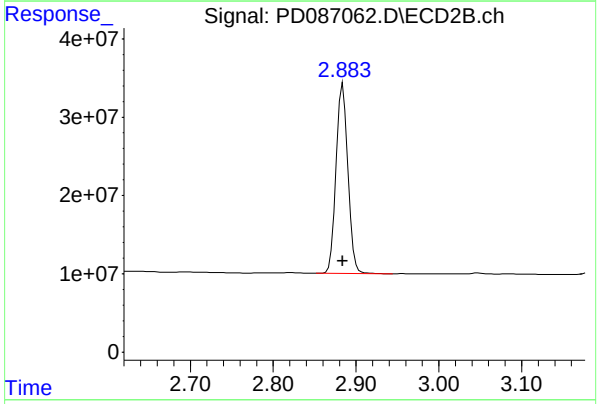




#1 Tetrachloro-m-xylene

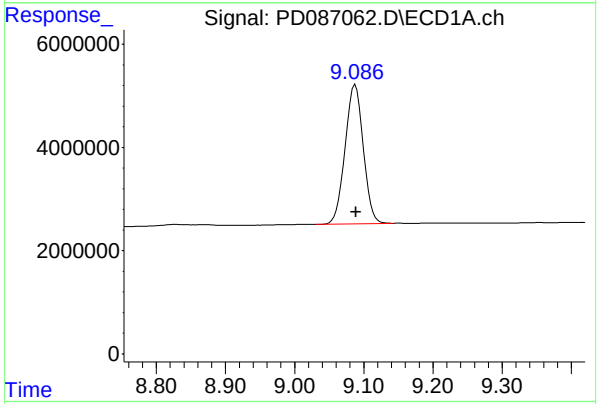
R.T.: 3.557 min
Delta R.T.: 0.000 min
Response: 38952131
Conc: 19.48 ng/ml

Instrument :
ECD_D
ClientSampleId :
LL-001-FB-12-4-24



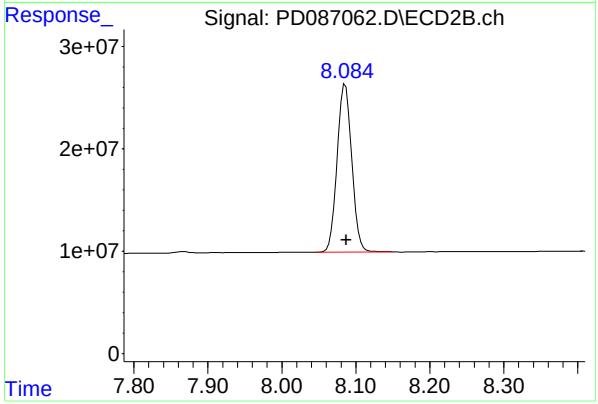
#1 Tetrachloro-m-xylene

R.T.: 2.884 min
Delta R.T.: 0.000 min
Response: 240532229
Conc: 21.01 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.088 min
Delta R.T.: 0.000 min
Response: 49260967
Conc: 15.49 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.086 min
Delta R.T.: -0.002 min
Response: 225939510
Conc: 16.22 ng/ml

CALIBRATION SUMMARY

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Calibration Date(s):** 11/27/2024 11/27/2024

Calibration Times: 11:29 12:24

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PD086947.D RT 075 = PD086948.D

RT 050 = PD086949.D RT 025 = PD086950.D RT 005 = PD086951.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.21	6.21	6.21	6.21	6.21	6.21	6.11	6.31
4,4'-DDT	7.03	7.03	7.03	7.03	7.03	7.03	6.93	7.13
Aldrin	5.28	5.28	5.28	5.28	5.28	5.28	5.18	5.38
alpha-BHC	4.01	4.01	4.01	4.01	4.01	4.01	3.91	4.11
alpha-Chlordane	6.04	6.04	6.04	6.04	6.04	6.04	5.94	6.14
beta-BHC	4.52	4.52	4.52	4.52	4.52	4.52	4.42	4.62
Decachlorobiphenyl	9.09	9.09	9.09	9.09	9.09	9.09	8.99	9.19
delta-BHC	4.77	4.77	4.77	4.77	4.77	4.77	4.67	4.87
Dieldrin	6.36	6.36	6.36	6.36	6.36	6.36	6.26	6.46
Endosulfan I	6.08	6.08	6.08	6.08	6.08	6.08	5.98	6.18
Endosulfan II	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Endosulfan sulfate	7.16	7.16	7.16	7.16	7.16	7.16	7.06	7.26
Endrin	6.58	6.58	6.58	6.58	6.58	6.58	6.48	6.68
Endrin aldehyde	6.92	6.92	6.92	6.93	6.92	6.92	6.82	7.02
Endrin ketone	7.64	7.64	7.64	7.64	7.64	7.64	7.54	7.74
gamma-BHC (Lindane)	4.34	4.34	4.34	4.34	4.34	4.34	4.24	4.44
gamma-Chlordane	5.96	5.96	5.96	5.96	5.96	5.95	5.85	6.05
Heptachlor	4.94	4.94	4.94	4.94	4.94	4.94	4.84	5.04
Heptachlor epoxide	5.70	5.70	5.70	5.70	5.70	5.70	5.60	5.80
Methoxychlor	7.50	7.50	7.50	7.50	7.50	7.50	7.40	7.60
Tetrachloro-m-xylene	3.56	3.56	3.56	3.56	3.56	3.56	3.46	3.66

Raw Data

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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RETENTION TIMES OF INITIAL CALIBRATION

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Calibration Date(s):** 11/27/2024 11/27/2024

Calibration Times: 11:29 12:24

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: **RT 100 =** PD086947.D **RT 075 =** PD086948.D

RT 050 = PD086949.D **RT 025 =** PD086950.D **RT 005 =** PD086951.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.94	5.94	5.94	5.94	5.94	5.94	5.84	6.04
4,4'-DDE	5.39	5.39	5.39	5.39	5.39	5.39	5.29	5.49
4,4'-DDT	6.19	6.20	6.19	6.20	6.20	6.19	6.09	6.29
Aldrin	4.38	4.38	4.38	4.38	4.38	4.38	4.28	4.48
alpha-BHC	3.40	3.40	3.40	3.40	3.40	3.40	3.30	3.50
alpha-Chlordane	5.20	5.20	5.20	5.20	5.20	5.20	5.10	5.30
beta-BHC	4.03	4.03	4.03	4.03	4.03	4.03	3.93	4.13
Decachlorobiphenyl	8.09	8.09	8.09	8.09	8.09	8.09	7.99	8.19
delta-BHC	4.27	4.27	4.27	4.27	4.27	4.27	4.17	4.37
Dieldrin	5.52	5.52	5.52	5.52	5.52	5.52	5.42	5.62
Endosulfan I	5.26	5.26	5.26	5.26	5.26	5.26	5.16	5.36
Endosulfan II	6.09	6.09	6.09	6.09	6.09	6.09	5.99	6.19
Endosulfan sulfate	6.49	6.49	6.49	6.49	6.49	6.49	6.39	6.59
Endrin	5.80	5.80	5.80	5.80	5.80	5.80	5.70	5.90
Endrin aldehyde	6.27	6.27	6.27	6.27	6.27	6.27	6.17	6.37
Endrin ketone	7.00	7.00	7.00	7.00	7.00	7.00	6.90	7.10
gamma-BHC (Lindane)	3.74	3.74	3.74	3.74	3.74	3.73	3.63	3.83
gamma-Chlordane	5.13	5.14	5.14	5.14	5.14	5.14	5.04	5.24
Heptachlor	4.09	4.09	4.09	4.09	4.09	4.09	3.99	4.19
Heptachlor epoxide	4.88	4.88	4.88	4.88	4.88	4.88	4.78	4.98
Methoxychlor	6.77	6.77	6.77	6.77	6.77	6.77	6.67	6.87
Tetrachloro-m-xylene	2.88	2.88	2.88	2.88	2.88	2.88	2.78	2.98

Raw Data

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Calibration Date(s):** 11/27/2024 11/27/2024

Calibration Times: 11:29 12:24

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD086947.D **CF 075 =** PD086948.D

CF 050 = PD086949.D **CF 025 =** PD086950.D **CF 005 =** PD086951.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2735920000	2751860000	2720500000	2593130000	2196640000	2599610000	9
4,4'-DDE	3466940000	3483310000	3428400000	3236920000	2652740000	3253660000	11
4,4'-DDT	2976810000	3016480000	2986180000	2850740000	2294240000	2824890000	11
Aldrin	4303360000	4342020000	4283840000	4064060000	3386100000	4075880000	10
alpha-BHC	4430730000	4417540000	4287870000	3934510000	3049510000	4024030000	14
alpha-Chlordane	3688410000	3735310000	3717670000	3596520000	3126240000	3572830000	7
beta-BHC	1535020000	1574520000	1605870000	1624780000	1545840000	1577210000	2
Decachlorobiphenyl	2992430000	3112430000	3225210000	3355650000	3219270000	3181000000	4
delta-BHC	4441430000	4450150000	4327270000	3989360000	3172300000	4076100000	13
Dieldrin	3795690000	3830160000	3790500000	3606960000	3039930000	3612650000	9
Endosulfan I	3433610000	3488040000	3485150000	3390450000	2981670000	3355780000	6
Endosulfan II	3039770000	3116860000	3125360000	3043070000	2620030000	2989020000	7
Endosulfan sulfate	2935550000	2992480000	3015250000	2968900000	2638300000	2910100000	5
Endrin	3202610000	3205890000	3170740000	3021160000	2529400000	3025960000	10
Endrin aldehyde	2421230000	2493410000	2526480000	2516750000	2265480000	2444670000	4
Endrin ketone	3296330000	3359180000	3381450000	3315060000	2874250000	3245250000	6
gamma-BHC (Lindane)	4309810000	4322940000	4222970000	3939130000	3147430000	3988460000	12
gamma-Chlordane	3693230000	3734770000	3697900000	3536080000	3002900000	3532980000	9
Heptachlor	4139080000	4178160000	4114300000	3906950000	3292570000	3926210000	9
Heptachlor epoxide	3736910000	3782610000	3761390000	3628850000	3158060000	3613560000	7
Methoxychlor	1559340000	1605900000	1649440000	1677570000	1504180000	1599280000	4
Tetrachloro-m-xylene	2000110000	2033420000	2050380000	2042900000	1872020000	1999770000	4

Raw Data

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Calibration Date(s):** 11/27/2024 11/27/2024

Calibration Times: 11:29 12:24

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PD086947.D **CF 075 =** PD086948.D

CF 050 = PD086949.D **CF 025 =** PD086950.D **CF 005 =** PD086951.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	11760100000	12301100000	12793900000	13300400000	12692400000	12569600000	5
4,4'-DDE	14155700000	14778600000	15427500000	15836500000	15174700000	15074600000	4
4,4'-DDT	12529400000	13132400000	13660600000	14118900000	13228000000	13333900000	4
Aldrin	15620300000	16358700000	17025800000	17589400000	16992600000	16717300000	5
alpha-BHC	16941700000	17566800000	18070700000	18371700000	17153600000	17620900000	3
alpha-Chlordane	14115800000	14778100000	15453400000	16091700000	15971500000	15282100000	5
beta-BHC	6571600000	6878590000	7222790000	7591420000	7544910000	7161860000	6
Decachlorobiphenyl	12637700000	13273000000	13919900000	14734900000	15098700000	13932800000	7
delta-BHC	16154500000	16827000000	17388300000	17766900000	16874600000	17002300000	4
Dieldrin	14473500000	15205700000	15868400000	16478600000	15832800000	15571800000	5
Endosulfan I	12971100000	13685200000	14373300000	14997200000	14955800000	14196500000	6
Endosulfan II	12535400000	13205900000	13860700000	14522400000	14695800000	13764000000	7
Endosulfan sulfate	12304400000	12995800000	13642600000	14344500000	14361500000	13529800000	7
Endrin	12948400000	13556700000	14213900000	14888000000	14336100000	13988600000	5
Endrin aldehyde	10008700000	10601500000	11177500000	11812300000	11869500000	11093900000	7
Endrin ketone	13688700000	14451500000	15217700000	16065800000	15934700000	15071700000	7
gamma-BHC (Lindane)	15964000000	16586900000	17138600000	17562200000	16722600000	16794900000	4
gamma-Chlordane	14510300000	15177500000	15776100000	16334400000	15979600000	15555600000	5
Heptachlor	15015200000	15753600000	16478600000	17132800000	16898300000	16255700000	5
Heptachlor epoxide	13890700000	14599400000	15324600000	15983400000	16121100000	15183900000	6
Methoxychlor	6411610000	6823710000	7271800000	7742890000	7616140000	7173230000	8
Tetrachloro-m-xylene	10635000000	11107400000	11557700000	12009200000	11922500000	11446400000	5

Raw Data

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Fax : 908 789 8922

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Date(s) Analyzed:** 11/27/2024 11/27/2024

GC Column: ZB-MR2 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	6.25	6.15	6.35	26714900
		2	6.45	6.35	6.55	37423900
		3	7.16	7.06	7.26	74221400
		4	7.57	7.47	7.67	97471900
		5	7.94	7.84	8.04	55327400

Raw Data

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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Instrument ID: ECD_D **Date(s) Analyzed:** 11/27/2024 11/27/2024

GC Column: ZB-MR1 **ID:** 0.32 (mm)

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Toxaphene	500	1	5.49	5.39	5.59	116683000
		2	5.66	5.56	5.76	78971400
		3	6.77	6.67	6.87	387418000
		4	7.21	7.11	7.31	277118000
		5	7.34	7.24	7.44	199715000

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:29
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:22:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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						
1) SA	Tetrachlo...	3.557	2.884	200.0E6	1063.5E6	98.759	95.842
28) SA	Decachlor...	9.087	8.086	299.2E6	1263.8E6	96.256	95.172
	Target Compounds						
2) A	alpha-BHC	4.007	3.397	443.1E6	1694.2E6	101.639	96.775
3) MA	gamma-BHC...	4.338	3.735	431.0E6	1596.4E6	101.018	96.452
4) MA	Heptachlor	4.938	4.090	413.9E6	1501.5E6	100.300	95.353
5) MB	Aldrin	5.281	4.376	430.3E6	1562.0E6	100.227	95.695
6) B	beta-BHC	4.521	4.030	153.5E6	657.2E6	97.744	95.279
7) B	delta-BHC	4.770	4.267	444.1E6	1615.5E6	101.302	96.322
8) B	Heptachlo...	5.700	4.881	373.7E6	1389.1E6	99.674	95.092
9) A	Endosulfan I	6.084	5.256	343.4E6	1297.1E6	99.255	94.872
10) B	gamma-Chl...	5.955	5.134	369.3E6	1451.0E6	99.937	95.821
11) B	alpha-Chl...	6.036	5.199	368.8E6	1411.6E6	99.605	95.476
12) B	4,4'-DDE	6.205	5.385	346.7E6	1415.6E6	100.559	95.701
13) MA	Dieldrin	6.356	5.522	379.6E6	1447.4E6	100.069	95.403
14) MA	Endrin	6.583	5.798	320.3E6	1294.8E6	100.500	95.341
15) B	Endosulfa...	6.795	6.090	304.0E6	1253.5E6	98.612	94.979
16) A	4,4'-DDD	6.714	5.939	273.6E6	1176.0E6	100.283	95.790
17) MA	4,4'-DDT	7.031	6.194	297.7E6	1252.9E6	99.843	95.681
18) B	Endrin al...	6.924	6.269	242.1E6	1000.9E6	97.873	94.483
19) B	Endosulfa...	7.158	6.492	293.6E6	1230.4E6	98.661	94.843
20) A	Methoxychlor	7.503	6.766	155.9E6	641.2E6	97.192	93.714
21) B	Endrin ke...	7.640	7.001	329.6E6	1368.9E6	98.725	94.710
22)	Mirex	8.125	7.198	238.0E6	1105.1E6	96.778	94.656

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

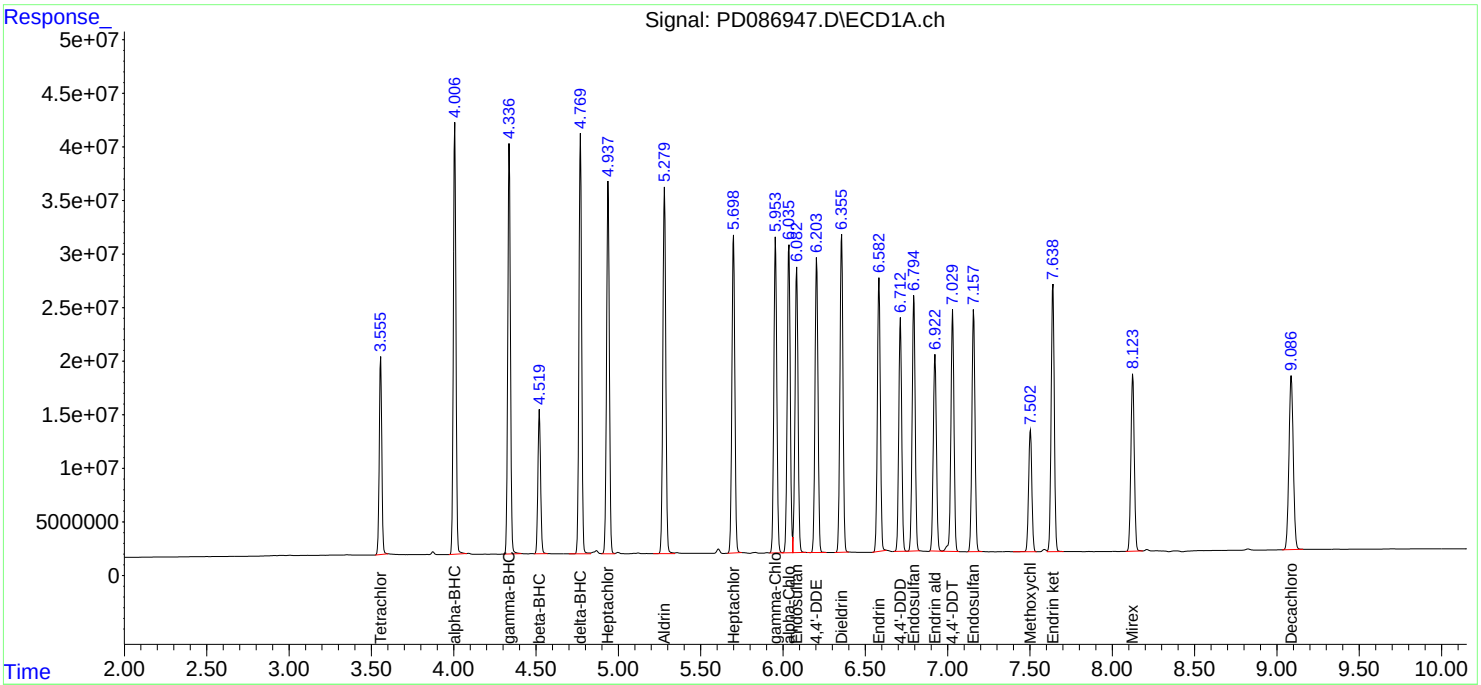
ICAL Form

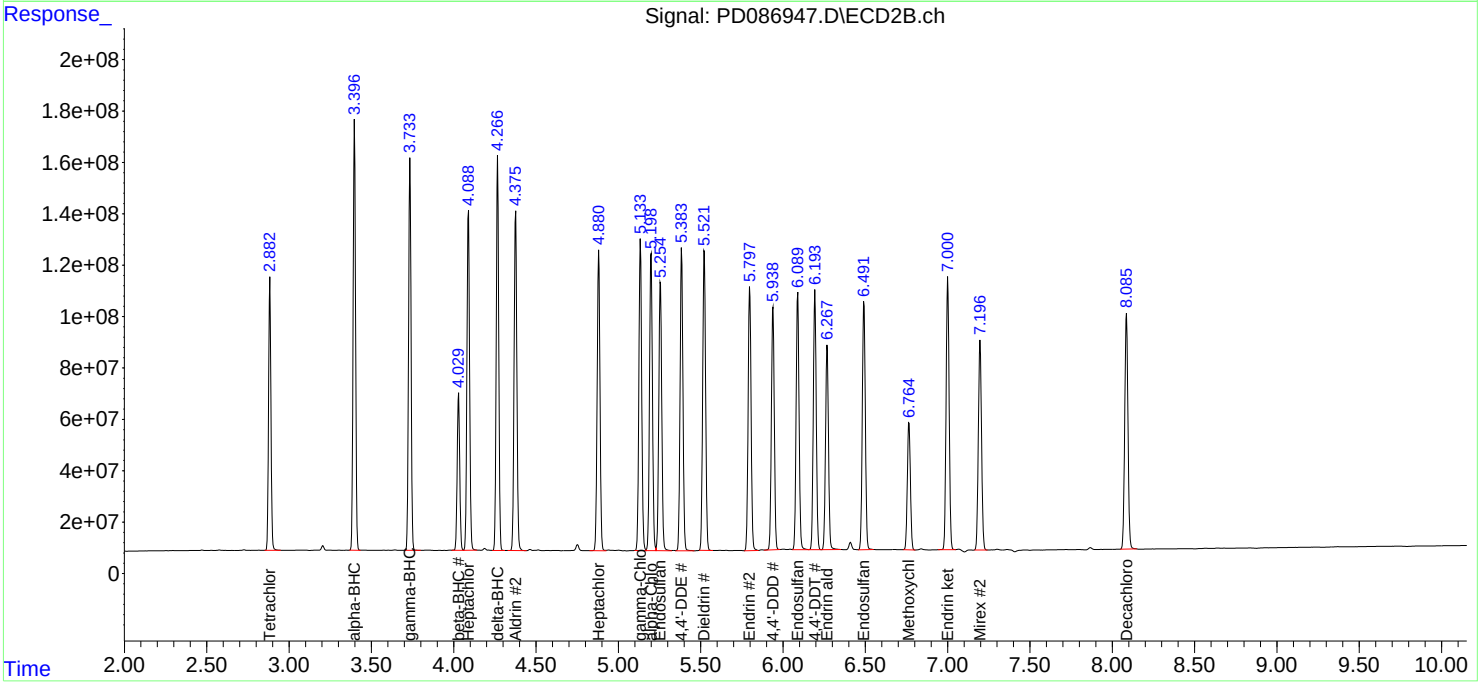
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086947.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:29
Operator : AR\AJ
Sample : PSTDICC100
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC100

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:22:13 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:42
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:23:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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						
1) SA	Tetrachlo...	3.557	2.884	152.5E6	833.1E6	75.201	75.049
28) SA	Decachlor...	9.087	8.087	233.4E6	995.5E6	75.058	74.978
	Target Compounds						
2) A	alpha-BHC	4.007	3.398	331.3E6	1317.5E6	75.665	75.173
3) MA	gamma-BHC...	4.338	3.735	324.2E6	1244.0E6	75.660	75.108
4) MA	Heptachlor	4.939	4.090	313.4E6	1181.5E6	75.621	75.021
5) MB	Aldrin	5.281	4.377	325.7E6	1226.9E6	75.562	75.109
6) B	beta-BHC	4.522	4.030	118.1E6	515.9E6	75.130	74.865
7) B	delta-BHC	4.770	4.268	333.8E6	1262.0E6	75.747	75.166
8) B	Heptachlo...	5.700	4.882	283.7E6	1095.0E6	75.445	74.972
9) A	Endosulfan I	6.084	5.257	261.6E6	1026.4E6	75.413	75.047
10) B	gamma-Chl...	5.955	5.135	280.1E6	1138.3E6	75.529	75.113
11) B	alpha-Chl...	6.036	5.200	280.1E6	1108.4E6	75.434	74.978
12) B	4,4'-DDE	6.205	5.386	261.2E6	1108.4E6	75.515	74.956
13) MA	Dieldrin	6.357	5.523	287.3E6	1140.4E6	75.487	75.114
14) MA	Endrin	6.584	5.799	240.4E6	1016.8E6	75.301	74.910
15) B	Endosulfa...	6.795	6.090	233.8E6	990.4E6	75.554	75.030
16) A	4,4'-DDD	6.714	5.940	206.4E6	922.6E6	75.432	75.098
17) MA	4,4'-DDT	7.031	6.195	226.2E6	984.9E6	75.584	75.143
18) B	Endrin al...	6.924	6.269	187.0E6	795.1E6	75.394	75.040
19) B	Endosulfa...	7.158	6.492	224.4E6	974.7E6	75.286	75.086
20) A	Methoxychlor	7.503	6.766	120.4E6	511.8E6	75.047	74.868
21) B	Endrin ke...	7.640	7.002	251.9E6	1083.9E6	75.303	74.994
22)	Mirex	8.125	7.198	184.6E6	872.0E6	75.034	74.791

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

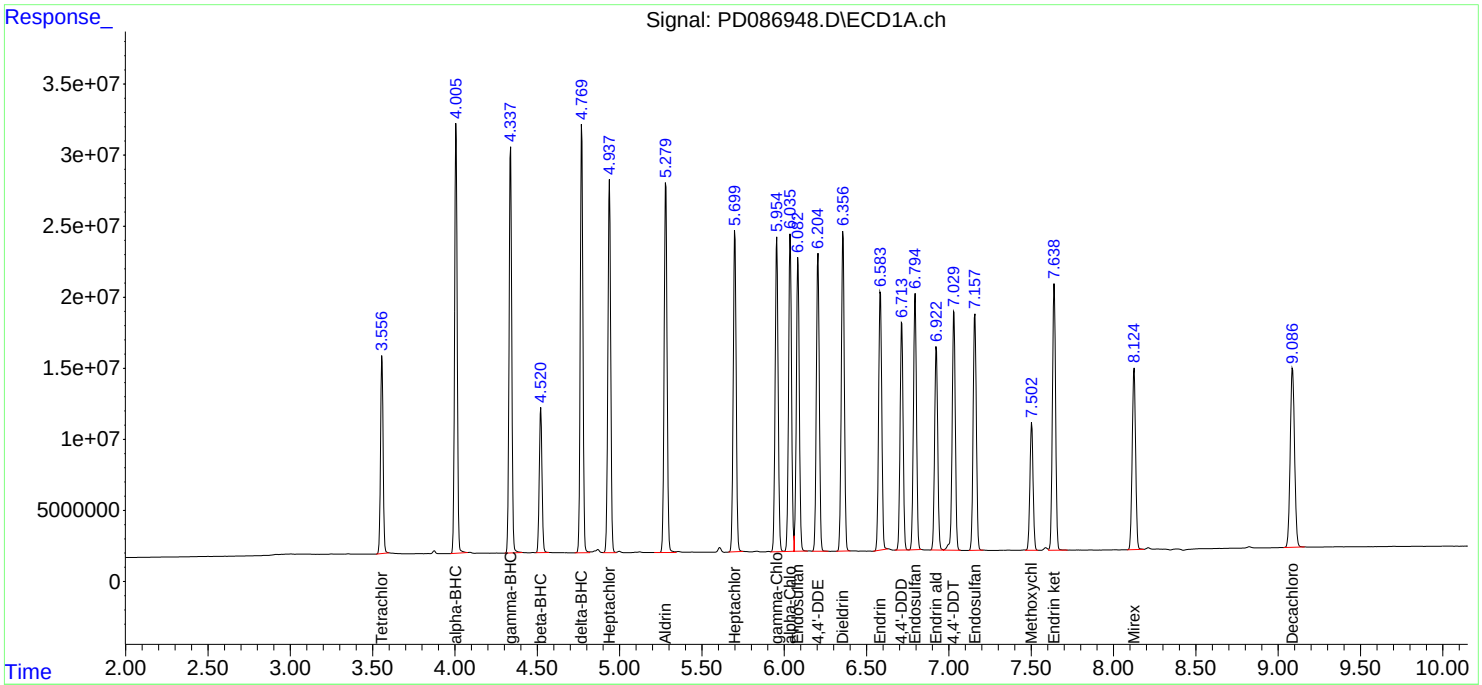
ICAL Form

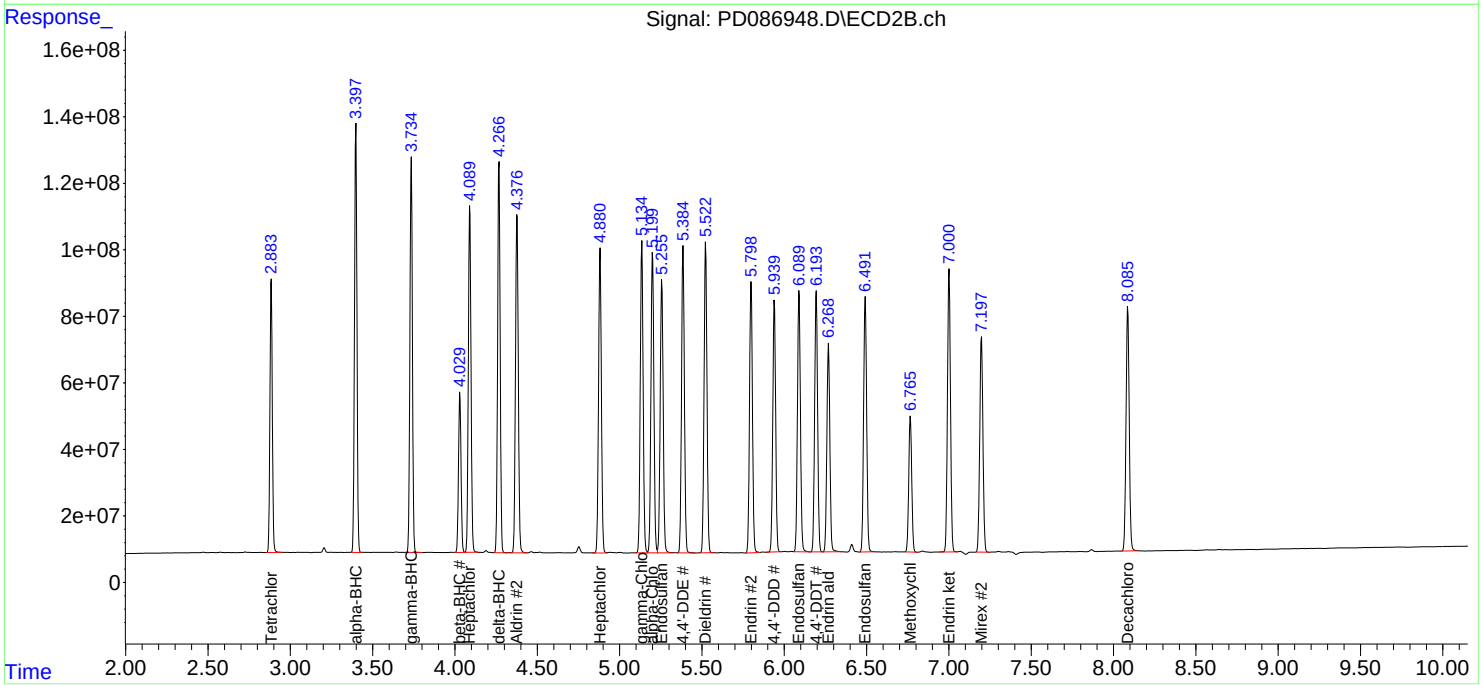
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086948.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:42
Operator : AR\AJ
Sample : PSTDICC075
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC075

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:23:56 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:56
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:20:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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						
1) SA	Tetrachlo...	3.557	2.884	102.5E6	577.9E6	50.000	50.000
28) SA	Decachlor...	9.089	8.087	161.3E6	696.0E6	50.000	50.000
	Target Compounds						
2) A	alpha-BHC	4.007	3.398	214.4E6	903.5E6	50.000	50.000
3) MA	gamma-BHC...	4.338	3.735	211.1E6	856.9E6	50.000	50.000
4) MA	Heptachlor	4.938	4.090	205.7E6	823.9E6	50.000	50.000
5) MB	Aldrin	5.280	4.377	214.2E6	851.3E6	50.000	50.000
6) B	beta-BHC	4.521	4.030	80293628	361.1E6	50.000	50.000
7) B	delta-BHC	4.770	4.268	216.4E6	869.4E6	50.000	50.000
8) B	Heptachlo...	5.700	4.881	188.1E6	766.2E6	50.000	50.000
9) A	Endosulfan I	6.084	5.257	174.3E6	718.7E6	50.000	50.000
10) B	gamma-Chl...	5.955	5.135	184.9E6	788.8E6	50.000	50.000
11) B	alpha-Chl...	6.036	5.200	185.9E6	772.7E6	50.000	50.000
12) B	4,4'-DDE	6.205	5.385	171.4E6	771.4E6	50.000	50.000
13) MA	Dieldrin	6.357	5.522	189.5E6	793.4E6	50.000	50.000
14) MA	Endrin	6.584	5.799	158.5E6	710.7E6	50.000	50.000
15) B	Endosulfa...	6.795	6.090	156.3E6	693.0E6	50.000	50.000
16) A	4,4'-DDD	6.714	5.940	136.0E6	639.7E6	50.000	50.000
17) MA	4,4'-DDT	7.031	6.194	149.3E6	683.0E6	50.000	50.000
18) B	Endrin al...	6.924	6.269	126.3E6	558.9E6	50.000	50.000
19) B	Endosulfa...	7.158	6.493	150.8E6	682.1E6	50.000	50.000
20) A	Methoxychlor	7.503	6.767	82471871	363.6E6	50.000	50.000
21) B	Endrin ke...	7.640	7.002	169.1E6	760.9E6	50.000	50.000
22)	Mirex	8.125	7.198	126.9E6	615.0E6	50.000	50.000

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

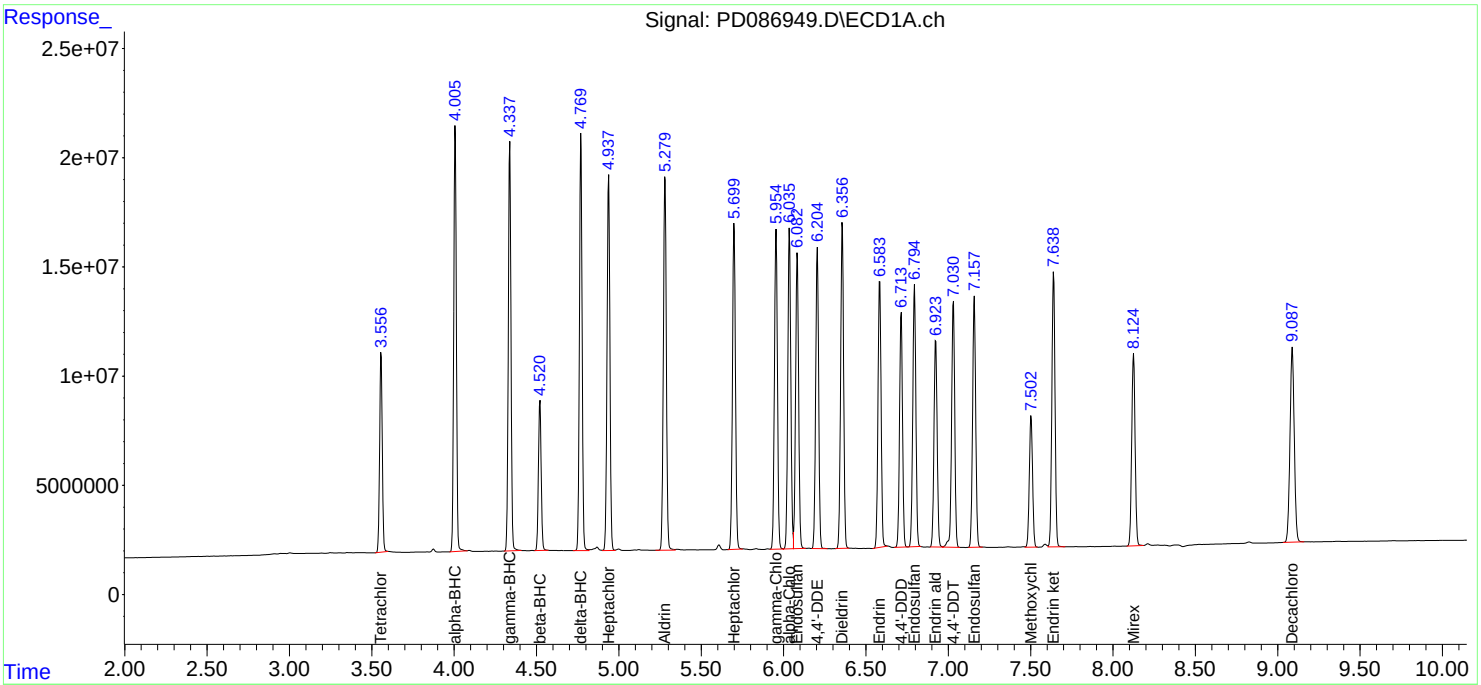
ICAL Form

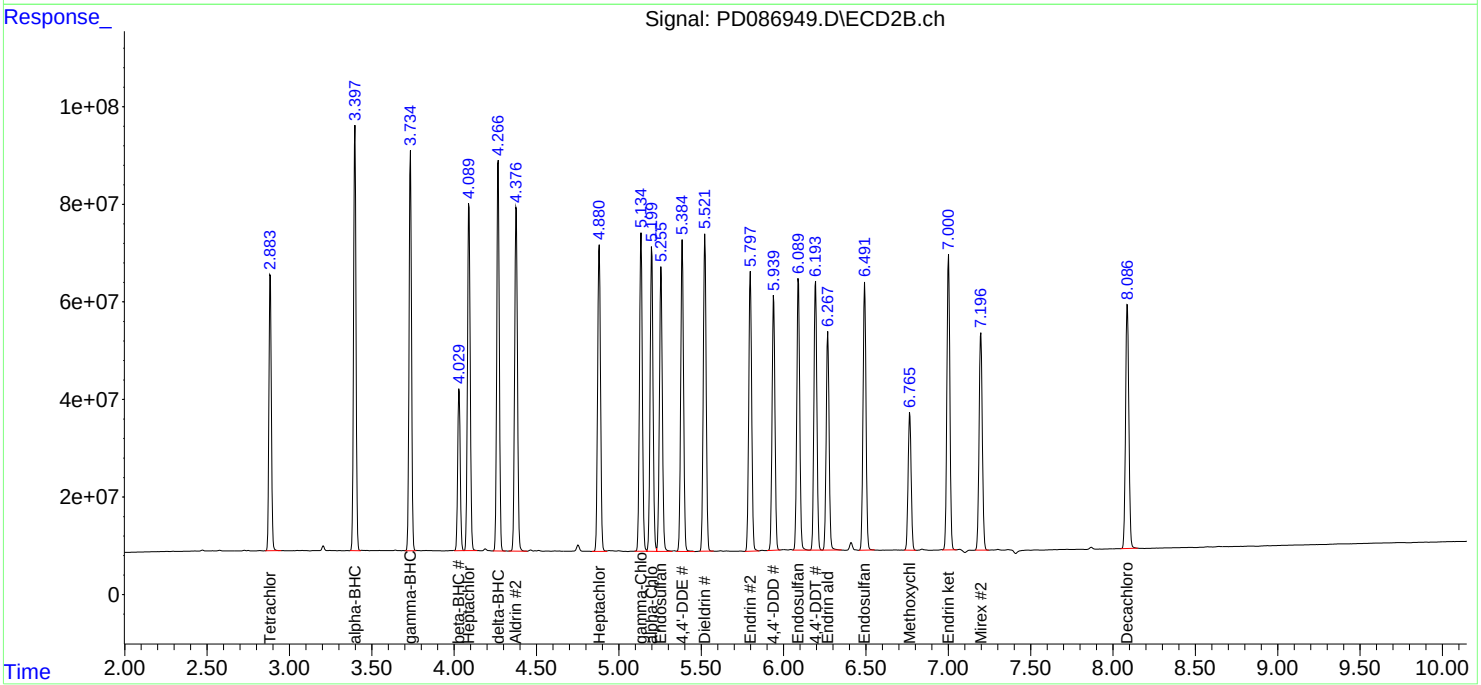
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086949.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:56
Operator : AR\AJ
Sample : PSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:20:18 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086950.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 12:10
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:25:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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						
1)	SA Tetrachlo...	3.557	2.884	51072538	300.2E6	25.138	26.505
28)	SA Decachlor...	9.089	8.087	83891341	368.4E6	26.452	27.004
	Target Compounds						
2)	A alpha-BHC	4.007	3.398	98362860	459.3E6	23.048	25.894
3)	MA gamma-BHC...	4.338	3.735	98478131	439.1E6	23.454	26.114
4)	MA Heptachlor	4.939	4.090	97673724	428.3E6	23.913	26.612
5)	MB Aldrin	5.281	4.377	101.6E6	439.7E6	23.916	26.413
6)	B beta-BHC	4.521	4.030	40619492	189.8E6	25.627	26.859
7)	B delta-BHC	4.770	4.268	99734121	444.2E6	23.183	26.075
8)	B Heptachlo...	5.701	4.882	90721369	399.6E6	24.339	26.729
9)	A Endosulfan I	6.084	5.257	84761362	374.9E6	24.573	26.768
10)	B gamma-Chl...	5.955	5.136	88401912	408.4E6	24.117	26.432
11)	B alpha-Chl...	6.037	5.200	89912997	402.3E6	24.403	26.625
12)	B 4,4'-DDE	6.205	5.386	80922955	395.9E6	23.774	26.307
13)	MA Dieldrin	6.357	5.523	90173935	412.0E6	24.009	26.567
14)	MA Endrin	6.584	5.799	75529041	372.2E6	23.977	26.774
15)	B Endosulfa...	6.796	6.091	76076750	363.1E6	24.690	26.832
16)	A 4,4'-DDD	6.714	5.940	64828245	332.5E6	24.007	26.518
17)	MA 4,4'-DDT	7.031	6.195	71268419	353.0E6	24.097	26.419
18)	B Endrin al...	6.925	6.269	62918825	295.3E6	25.274	27.092
19)	B Endosulfa...	7.159	6.493	74222622	358.6E6	24.923	26.919
20)	A Methoxychlor	7.503	6.767	41939265	193.6E6	25.840	27.408
21)	B Endrin ke...	7.640	7.001	82876493	401.6E6	24.828	27.036
22)	Mirex	8.125	7.198	65408338	327.3E6	26.174	27.234

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

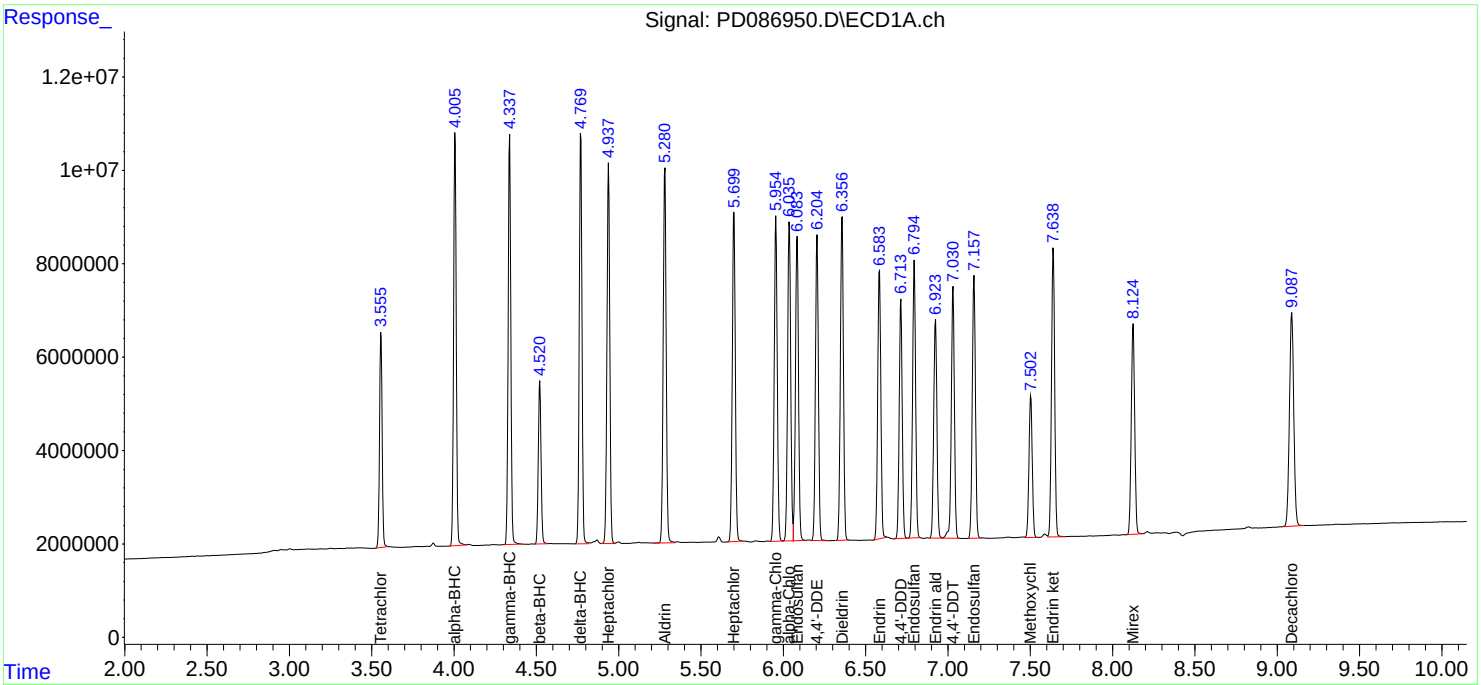
ICAL Form

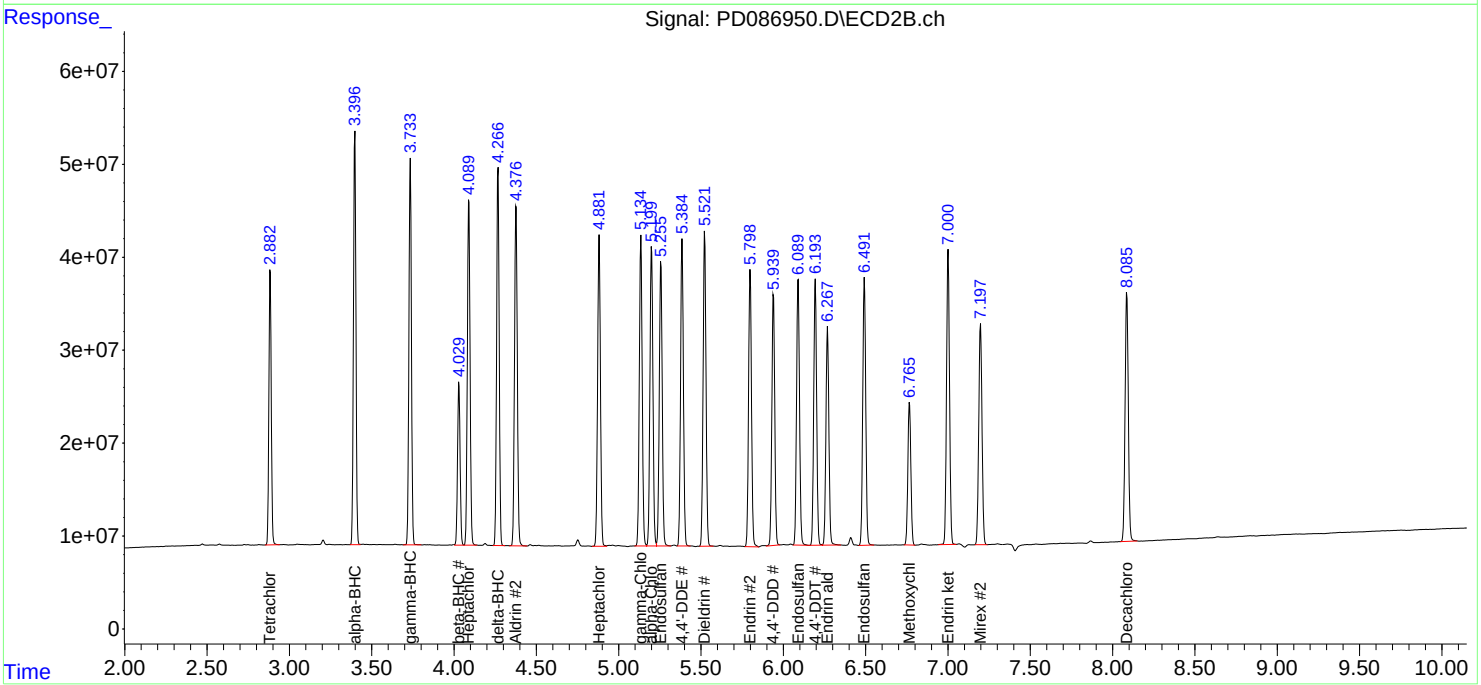
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086950.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 12:10
Operator : AR\AJ
Sample : PSTDICC025
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC025

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:25:48 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:19:59 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086951.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 12:24
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDICC005

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:39:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:39:33 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						
1)	SA Tetrachlo...	3.557	2.884	9360107	59612628	4.681	5.208
28)	SA Decachlor...	9.089	8.087	16096327	75493547	5.060	5.418
	Target Compounds						
2)	A alpha-BHC	4.007	3.398	15247551	85767912	3.789	4.867 #
3)	MA gamma-BHC...	4.338	3.735	15737158	83613122	3.946	4.978 #
4)	MA Heptachlor	4.939	4.090	16462870	84491593	4.193	5.198
5)	MB Aldrin	5.280	4.377	16930510	84962774	4.154	5.082
6)	B beta-BHC	4.522	4.031	7729178	37724525	4.901	5.267
7)	B delta-BHC	4.770	4.267	15861489	84373097	3.891	4.962 #
8)	B Heptachlo...	5.700	4.881	15790286	80605321	4.370	5.309
9)	A Endosulfan I	6.084	5.257	14908335	74778936	4.443	5.267
10)	B gamma-Chl...	5.955	5.135	15014523	79897810	4.250	5.136
11)	B alpha-Chl...	6.037	5.200	15631187	79857491	4.375	5.226
12)	B 4,4'-DDE	6.206	5.385	13263723	75873547	4.077	5.033
13)	MA Dieldrin	6.357	5.522	15199644	79163855	4.207	5.084
14)	MA Endrin	6.584	5.798	12647018	71680494	4.180	5.118m
15)	B Endosulfa...	6.795	6.090	13100144	73478873	4.383	5.338
16)	A 4,4'-DDD	6.714	5.938	10983205	63461945	4.225	5.048m
17)	MA 4,4'-DDT	7.031	6.195	11471220	66140116	4.061	4.960
18)	B Endrin al...	6.924	6.268	11327386	59347295	4.634	5.350
19)	B Endosulfa...	7.158	6.493	13191512	71807682	4.533	5.307
20)	A Methoxychlor	7.503	6.767	7520887	38080698	4.703	5.309
21)	B Endrin ke...	7.640	7.002	14371253	79673354	4.428	5.286
22)	Mirex	8.125	7.198	12395501	67928842	4.968	5.509

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086951.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 12:24
Operator : AR\AJ
Sample : PSTDICC005
Misc :
ALS Vial : 9 Sample Multiplier: 1

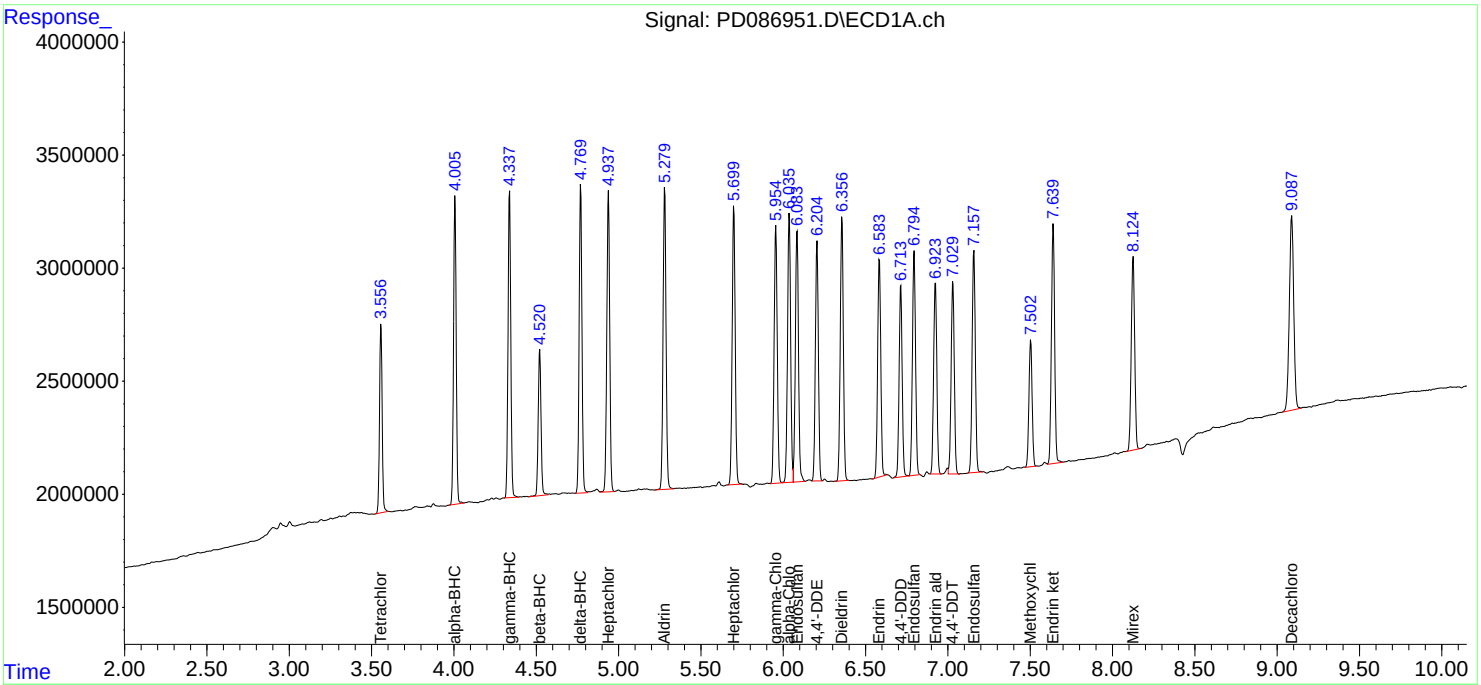
Instrument :
ECD_D
ClientSampleId :
PSTDICC005

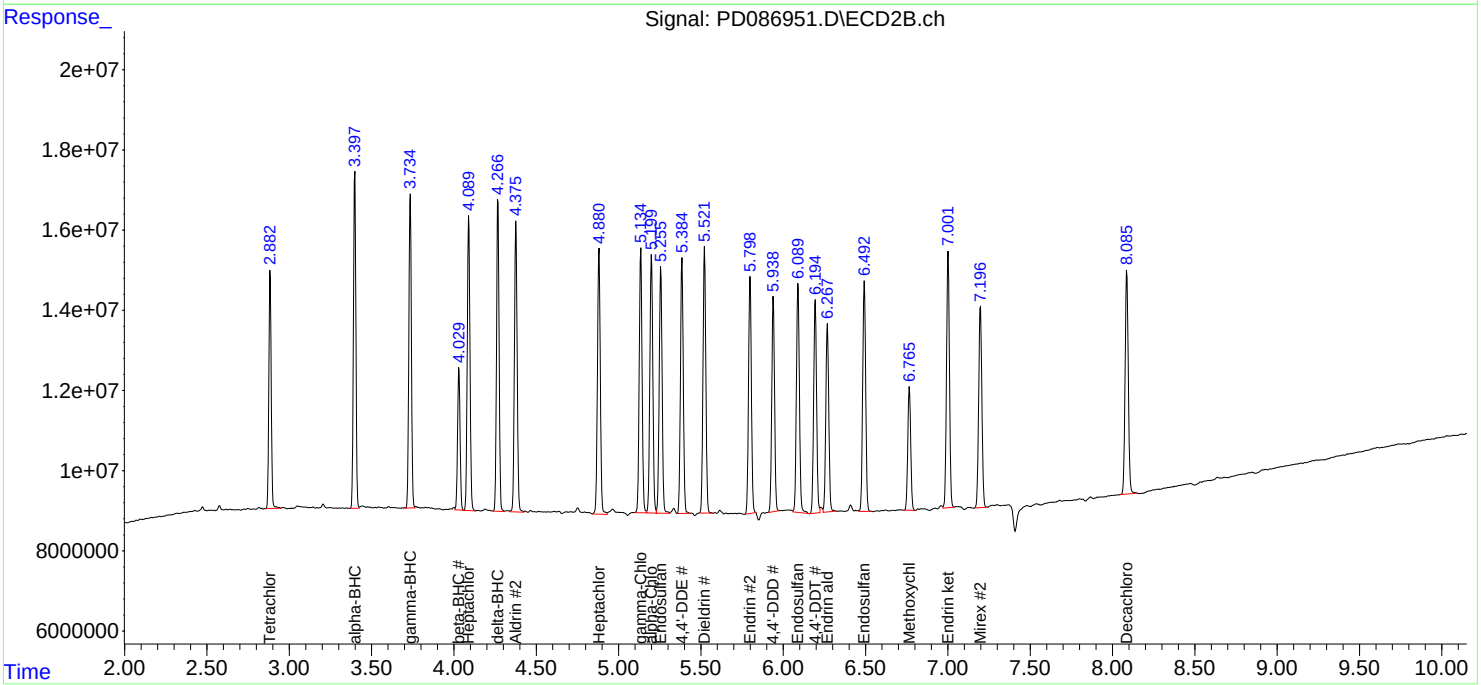
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 12:39:44 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 12:39:33 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086954.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:20:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:19:46 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						
1)	SA Tetrachlo...	3.557	2.884	100.6E6	693.0E6	50.000	50.000
28)	SA Decachlor...	9.090	8.088	158.2E6	692.5E6	50.000	50.000
	Target Compounds						
23)	Chlordane-1	4.724	3.912	66120490	265.6E6	500.000	500.000
24)	Chlordane-2	5.250	4.495	72658609	281.5E6	500.000	500.000
25)	Chlordane-3	5.956	5.135	286.7E6	835.1E6	500.000	500.000
26)	Chlordane-4	6.042	5.200	344.1E6	711.4E6	500.000	500.000
27)	Chlordane-5	6.882	6.100	60067018	324.5E6	500.000	500.000

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

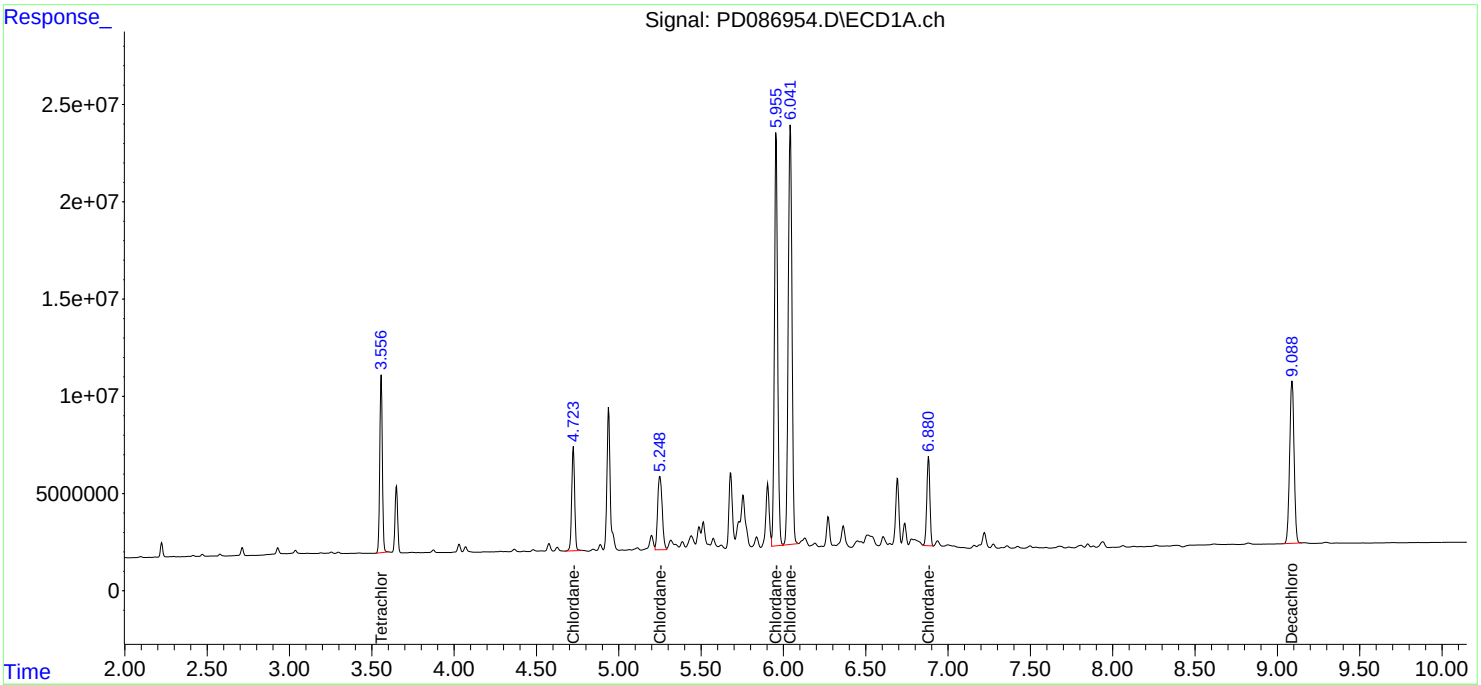
ICAL Form

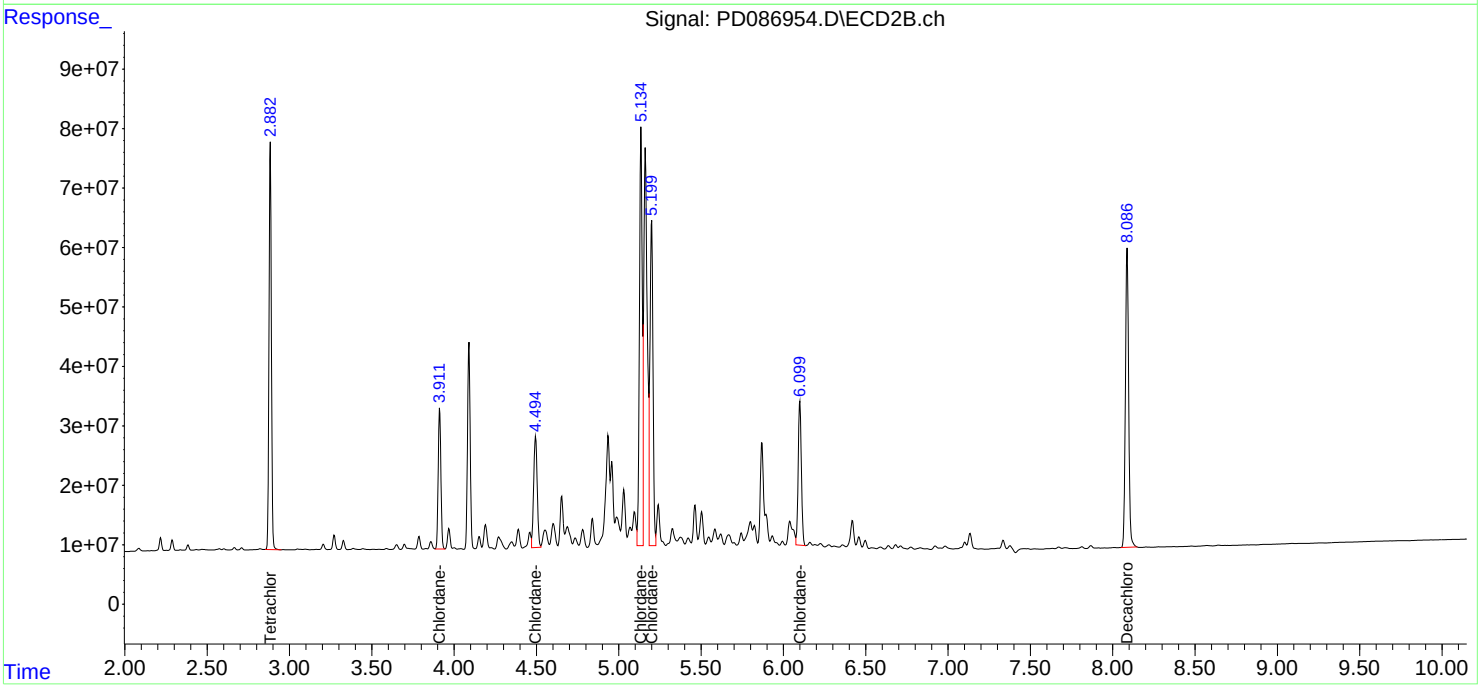
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086954.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 13:06
Operator : AR\AJ
Sample : PCHLORICC500
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PCHLORICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:20:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:19:46 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086959.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 14:16
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PTOXICC500

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 14:28:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 14:28:11 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. Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.558	2.884	101.0E6	569.3E6	50.000	50.000
7) SA	Decachlor...	9.090	8.087	158.0E6	687.4E6	50.000	50.000
	Target Compounds						
2)	Toxaphene-1	6.252	5.485	13357463	58341642	500.000	500.000
3)	Toxaphene-2	6.452	5.657	18711958	39485719	500.000	500.000
4)	Toxaphene-3	7.160	6.769	37110702	193.7E6	500.000	500.000
5)	Toxaphene-4	7.574	7.210	48735946	138.6E6	500.000	500.000
6)	Toxaphene-5	7.941	7.341	27663701	99857282	500.000	500.000

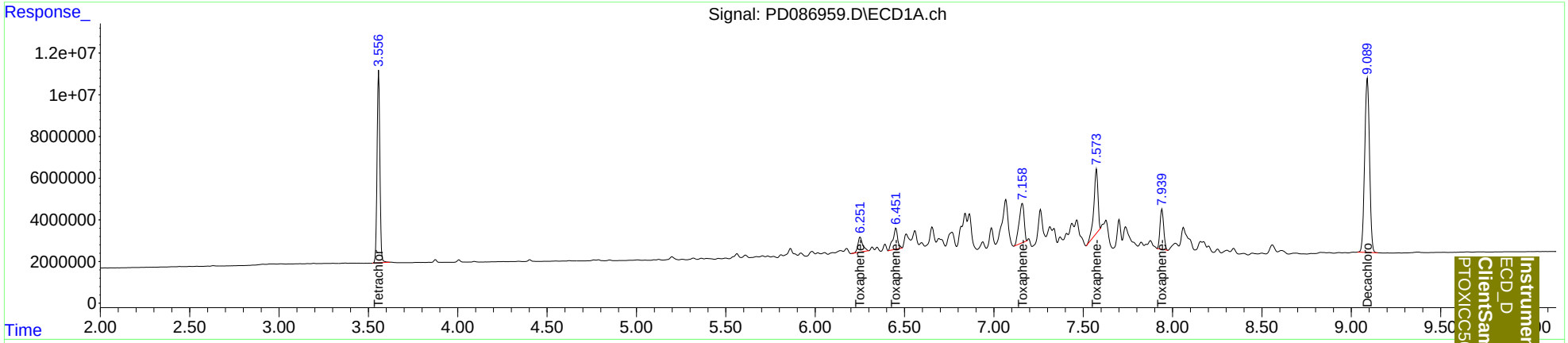
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086959.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 14:16
Operator : AR\AJ
Sample : PTOXICC500
Misc :
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 14:28:25 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 14:28:11 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. Signal #2 Info : 30M x 0.32mm x0.25µm



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086962.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 14:58
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD112724

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:38:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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						
1)	SA Tetrachlo...	3.557	2.884	101.7E6	574.3E6	50.862	50.176
28)	SA Decachlor...	9.090	8.087	158.4E6	686.8E6	49.811	49.292
	Target Compounds						
2)	A alpha-BHC	4.007	3.398	212.6E6	898.4E6	52.836	50.984
3)	MA gamma-BHC...	4.338	3.735	209.4E6	852.0E6	52.498	50.729
4)	MA Heptachlor	4.939	4.091	203.0E6	822.0E6	51.694	50.569
5)	MB Aldrin	5.281	4.377	212.1E6	845.4E6	52.031	50.568
6)	B beta-BHC	4.522	4.030	79564305	359.2E6	50.446	50.153
7)	B delta-BHC	4.771	4.268	214.1E6	864.2E6	52.526	50.830
8)	B Heptachlo...	5.701	4.882	186.7E6	760.8E6	51.659	50.104
9)	A Endosulfan I	6.085	5.257	172.6E6	713.4E6	51.427	50.249
10)	B gamma-Chl...	5.956	5.135	181.6E6	783.8E6	51.402	50.388
11)	B alpha-Chl...	6.037	5.200	184.1E6	765.7E6	51.542	50.102
12)	B 4,4'-DDE	6.206	5.386	169.3E6	765.3E6	52.046	50.766
13)	MA Dieldrin	6.357	5.523	187.3E6	788.9E6	51.832	50.659
14)	MA Endrin	6.584	5.799	155.8E6	709.4E6	51.475	50.711
15)	B Endosulfa...	6.796	6.091	152.0E6	689.2E6	50.857	50.072
16)	A 4,4'-DDD	6.715	5.941	135.0E6	645.9E6	51.916	51.389
17)	MA 4,4'-DDT	7.032	6.195	146.8E6	681.8E6	51.969	51.133
18)	B Endrin al...	6.925	6.269	124.5E6	555.0E6	50.929	50.028
19)	B Endosulfa...	7.159	6.493	149.0E6	675.0E6	51.215	49.887
20)	A Methoxychlor	7.504	6.767	81425107	366.6E6	50.913	51.109
21)	B Endrin ke...	7.641	7.002	167.5E6	759.3E6	51.619	50.377
22)	Mirex	8.126	7.198	125.5E6	609.5E6	50.318	49.427

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

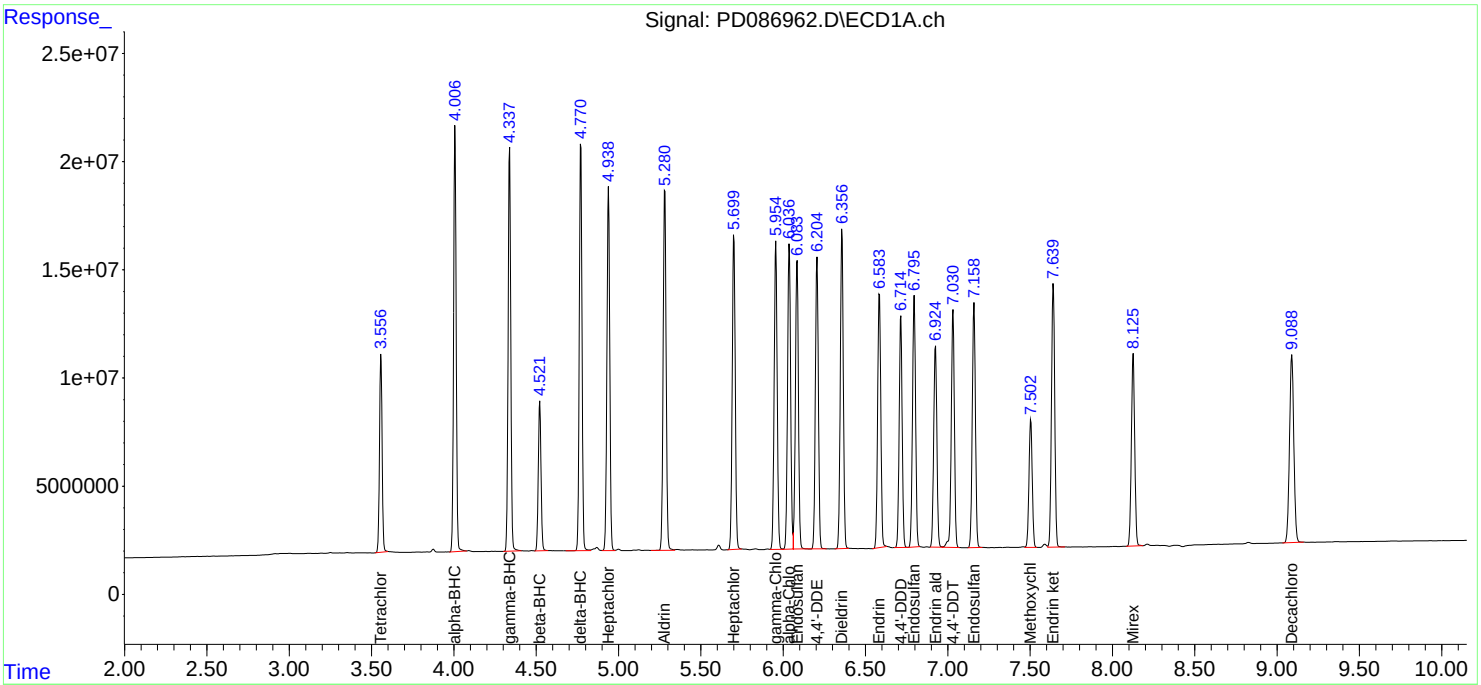
ICAL Form

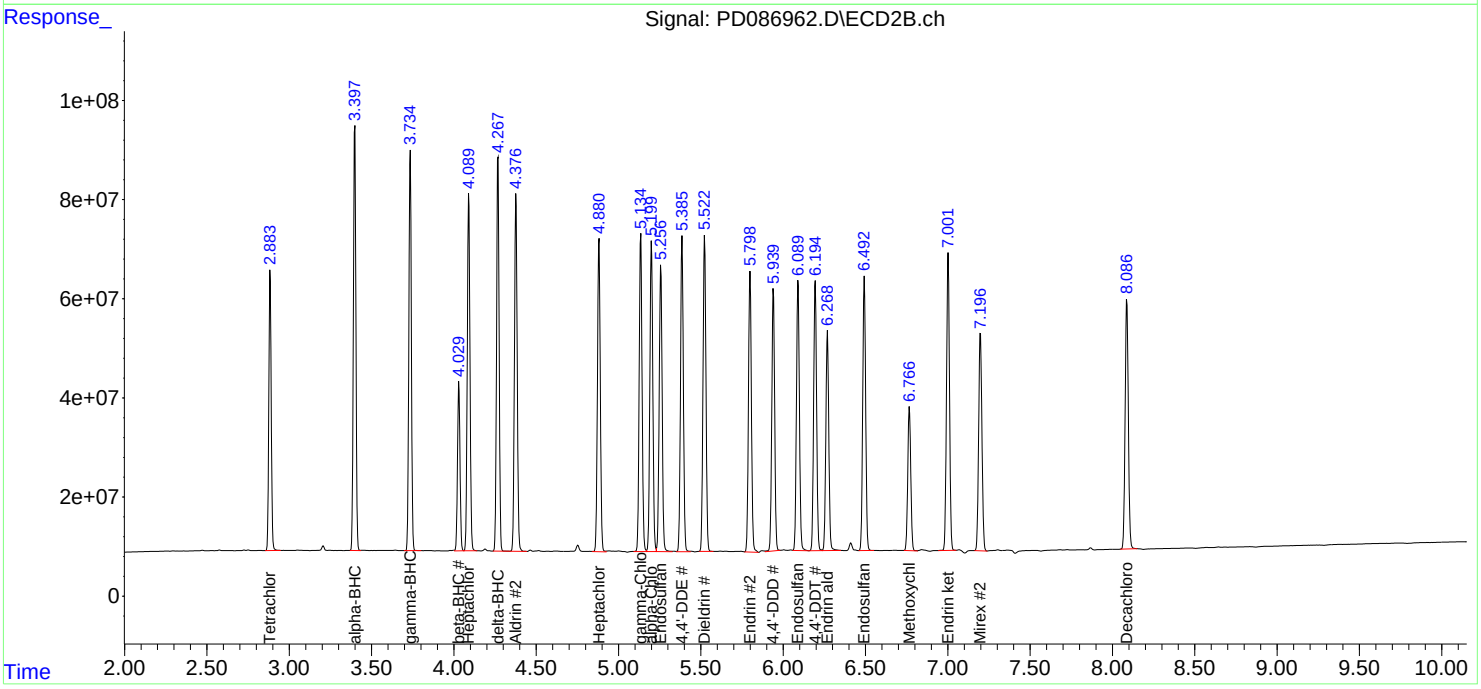
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086962.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 14:58
Operator : AR\AJ
Sample : PSTDICV050
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD112724

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:38:57 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 15:12
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD112724

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:44:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:43:38 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						
1)	SA Tetrachlo...	3.557	2.884	101.8E6	700.7E6	51.952	51.598
28)	SA Decachlor...	9.089	8.088	158.3E6	699.8E6	51.084	50.692
	Target Compounds						
23)	Chlordane-1	4.725	3.912	68119448	269.9E6	533.346	518.701
24)	Chlordane-2	5.251	4.495	73556853	285.9E6	516.974	513.114
25)	Chlordane-3	5.957	5.134	289.9E6	794.8E6	531.251	480.491m
26)	Chlordane-4	6.042	5.200	348.2E6	666.8E6	527.809	475.556
27)	Chlordane-5	6.880	6.100	61124348	331.5E6	521.134m	517.284

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

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086963.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 15:12
Operator : AR\AJ
Sample : PCHLORICV500
Misc :
ALS Vial : 21 Sample Multiplier: 1

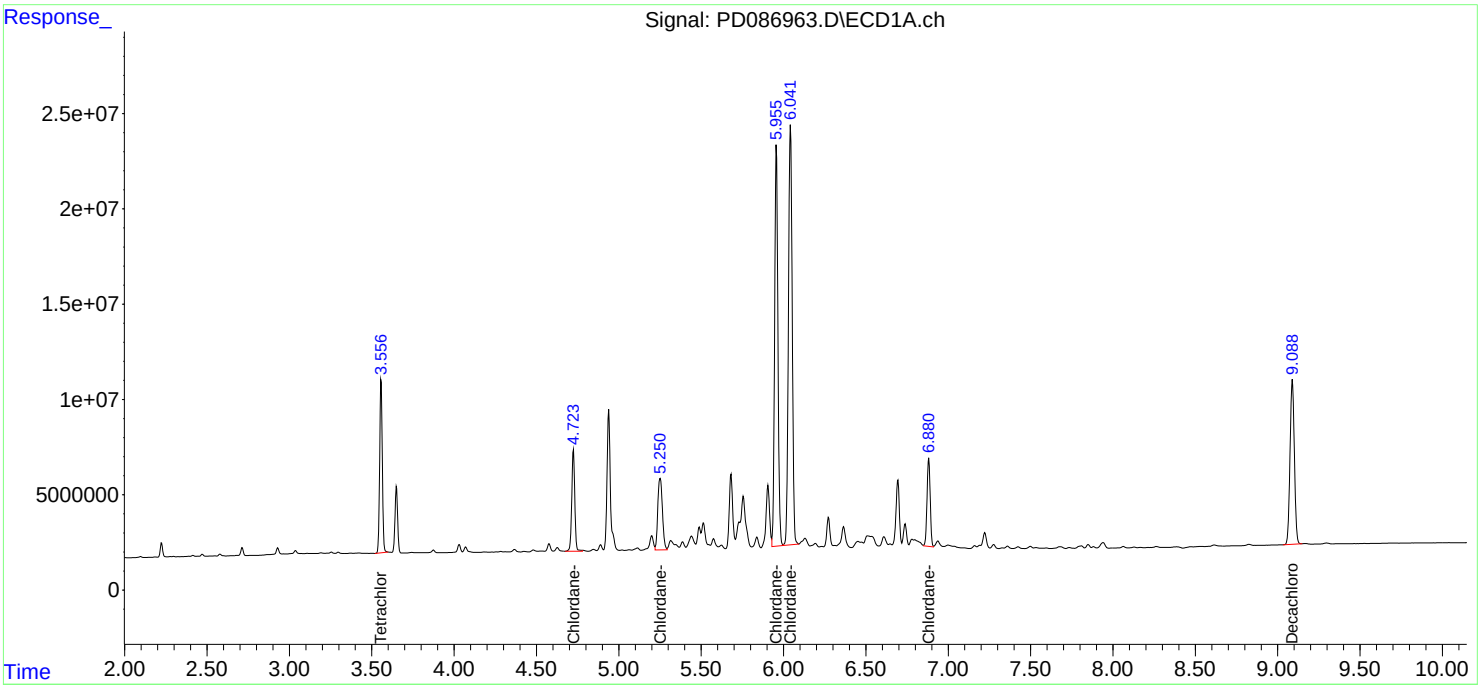
Instrument :
ECD_D
ClientSampleId :
ICVPD112724

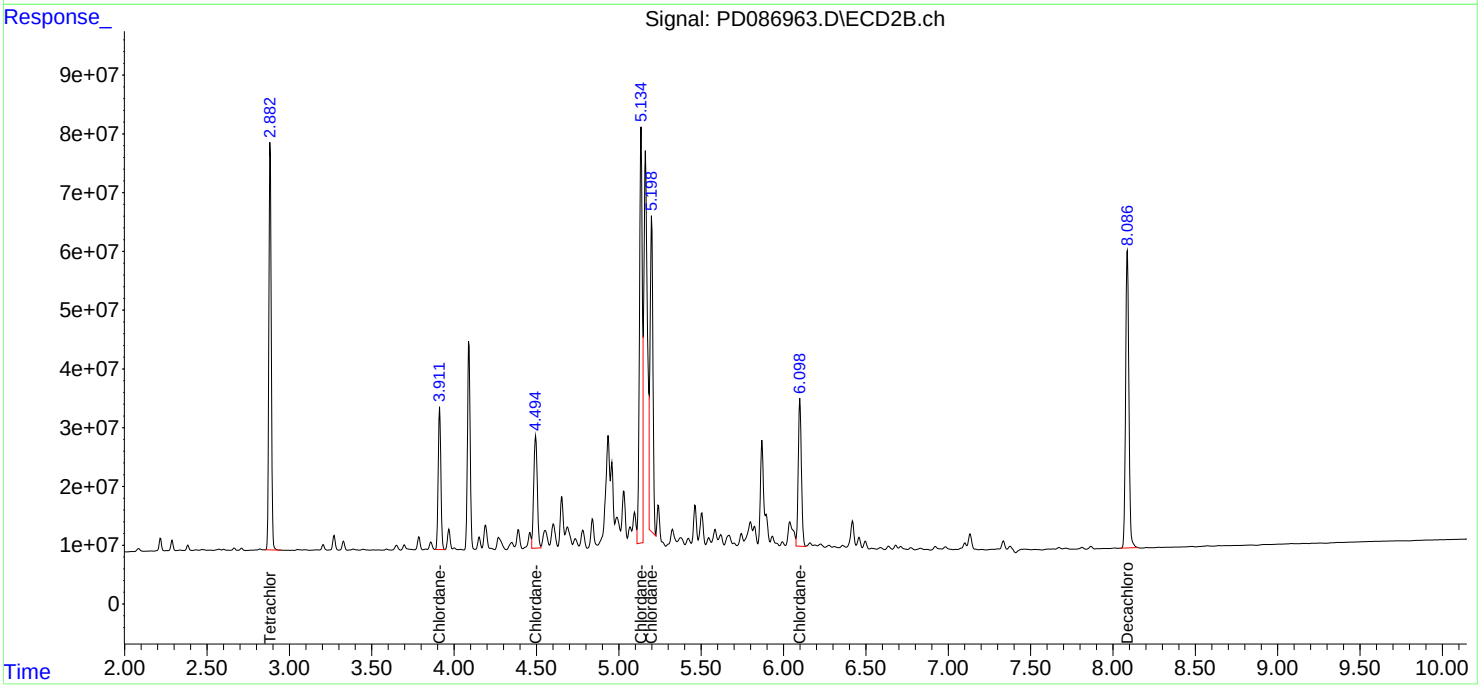
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:44:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:43:38 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 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 15:26
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
ICVPD112724

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:41:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:04:15 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. Signal #2 Info : 30M x 0.32mm x0.25µm

	Compound	RT#1	RT#2	Resp#1	Resp#2	ng/ml	ng/ml
	System Monitoring Compounds						
1) SA	Tetrachlo...	3.558	2.884	103.4E6	582.5E6	50.450	49.922
7) SA	Decachlor...	9.090	8.088	161.4E6	700.1E6	49.847	49.340
	Target Compounds						
2)	Toxaphene-1	6.253	5.485	13586083	60535582	493.877	511.323
3)	Toxaphene-2	6.453	5.657	19329377	40543268	501.567	504.892
4)	Toxaphene-3	7.159	6.768	38051406	196.2E6	510.934	506.870
5)	Toxaphene-4	7.574	7.210	49506717	144.3E6	510.533	511.385
6)	Toxaphene-5	7.941	7.341	28378259	101.7E6	512.250	511.246

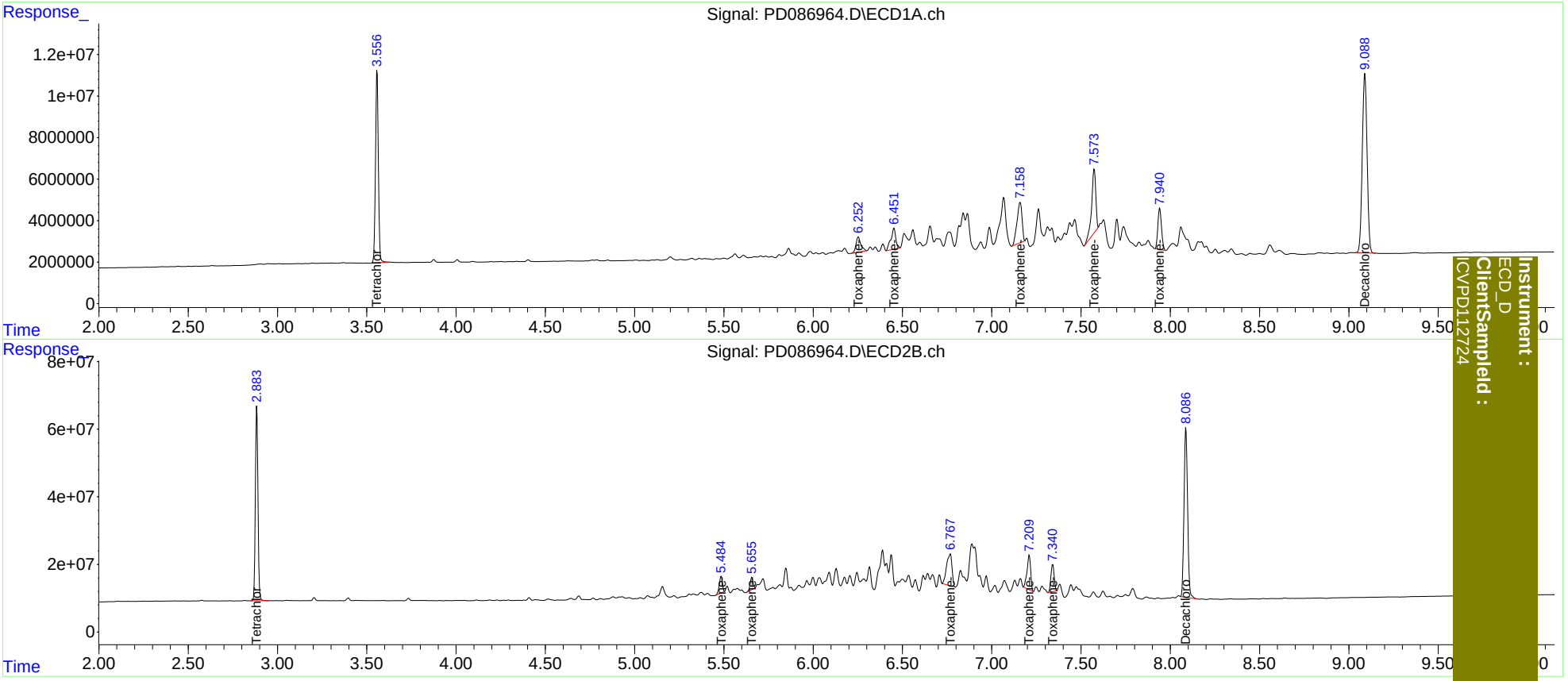
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086964.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 15:26
Operator : AR\AJ
Sample : PTOXICV500
Misc :
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 15:41:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\DTX112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:04:15 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. Signal #2 Info : 30M x 0.32mm x0.25µm



Raw Data: **PD087057.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Continuing Calib Date: 12/06/2024 **Initial Calibration Date(s):** 11/27/2024 11/27/2024

Continuing Calib Time: 14:56 **Initial Calibration Time(s):** 11:29 12:24

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.09	9.09	8.99	9.19	0.00
Tetrachloro-m-xylene	3.56	3.56	3.46	3.66	0.00
alpha-BHC	4.01	4.01	3.91	4.11	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.34	4.34	4.24	4.44	0.00
Heptachlor	4.94	4.94	4.84	5.04	0.00
Aldrin	5.28	5.28	5.18	5.38	0.00
Heptachlor epoxide	5.70	5.70	5.60	5.80	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.36	6.36	6.26	6.46	0.00
4,4'-DDE	6.21	6.21	6.11	6.31	0.01
Endrin	6.58	6.58	6.48	6.68	0.00
Endosulfan II	6.80	6.80	6.70	6.90	0.00
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.03	6.93	7.13	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.04	6.04	5.94	6.14	0.00
gamma-Chlordane	5.96	5.96	5.86	6.06	0.01

Raw Data: **PD087057.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Continuing Calib Date: 12/06/2024 **Initial Calibration Date(s):** 11/27/2024 11/27/2024

Continuing Calib Time: 14:56 **Initial Calibration Time(s):** 11:29 12:24

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.09	8.09	7.99	8.19	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.27	4.27	4.17	4.37	0.00
gamma-BHC (Lindane)	3.73	3.74	3.64	3.84	0.01
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.38	4.38	4.28	4.48	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.26	5.26	5.16	5.36	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.00
4,4'-DDE	5.39	5.39	5.29	5.49	0.00
Endrin	5.80	5.80	5.70	5.90	0.00
Endosulfan II	6.09	6.09	5.99	6.19	0.00
4,4'-DDD	5.94	5.94	5.84	6.04	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.77	6.77	6.67	6.87	0.01
Endrin ketone	7.00	7.00	6.90	7.10	0.00
Endrin aldehyde	6.27	6.27	6.17	6.37	0.00
alpha-Chlordane	5.20	5.20	5.10	5.30	0.00
gamma-Chlordane	5.13	5.14	5.04	5.24	0.01

Raw Data: **PD087057.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/06/2024

Lab Sample No.: PSTDCCC050 **Data File :** PD087057.D **Time Analyzed:** 14:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.715	6.614	6.814	51.010	50.000	2.0
4,4'-DDE	6.205	6.105	6.305	50.450	50.000	0.9
4,4'-DDT	7.031	6.931	7.131	46.540	50.000	-6.9
Aldrin	5.281	5.180	5.380	52.060	50.000	4.1
alpha-BHC	4.007	3.907	4.107	53.860	50.000	7.7
alpha-Chlordane	6.037	5.936	6.136	50.590	50.000	1.2
beta-BHC	4.521	4.421	4.621	51.040	50.000	2.1
Decachlorobiphenyl	9.087	8.989	9.189	45.880	50.000	-8.2
delta-BHC	4.770	4.670	4.870	52.970	50.000	5.9
Dieldrin	6.357	6.257	6.457	50.480	50.000	1.0
Endosulfan I	6.084	5.984	6.184	50.650	50.000	1.3
Endosulfan II	6.795	6.695	6.895	50.350	50.000	0.7
Endosulfan sulfate	7.159	7.058	7.258	48.620	50.000	-2.8
Endrin	6.584	6.484	6.684	49.160	50.000	-1.7
Endrin aldehyde	6.924	6.824	7.024	48.500	50.000	-3.0
Endrin ketone	7.640	7.540	7.740	48.580	50.000	-2.8
gamma-BHC (Lindane)	4.338	4.238	4.438	53.280	50.000	6.6
gamma-Chlordane	5.955	5.855	6.055	50.960	50.000	1.9
Heptachlor	4.938	4.838	5.038	51.910	50.000	3.8
Heptachlor epoxide	5.701	5.600	5.800	51.380	50.000	2.8
Methoxychlor	7.504	7.403	7.603	44.990	50.000	-10.0
Tetrachloro-m-xylene	3.557	3.457	3.657	51.640	50.000	3.3

Raw Data: **PD087057.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/06/2024

Lab Sample No.: PSTDCCC050 **Data File :** PD087057.D **Time Analyzed:** 14:56

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.940	5.840	6.040	51.300	50.000	2.6
4,4'-DDE	5.385	5.285	5.485	51.730	50.000	3.5
4,4'-DDT	6.194	6.094	6.294	46.700	50.000	-6.6
Aldrin	4.376	4.277	4.477	51.600	50.000	3.2
alpha-BHC	3.398	3.298	3.498	52.040	50.000	4.1
alpha-Chlordane	5.199	5.100	5.300	50.240	50.000	0.5
beta-BHC	4.030	3.930	4.130	50.610	50.000	1.2
Decachlorobiphenyl	8.087	7.987	8.187	45.650	50.000	-8.7
delta-BHC	4.267	4.168	4.368	51.590	50.000	3.2
Dieldrin	5.522	5.422	5.622	50.280	50.000	0.6
Endosulfan I	5.256	5.157	5.357	50.240	50.000	0.5
Endosulfan II	6.090	5.990	6.190	49.090	50.000	-1.8
Endosulfan sulfate	6.492	6.393	6.593	48.560	50.000	-2.9
Endrin	5.798	5.699	5.899	48.840	50.000	-2.3
Endrin aldehyde	6.268	6.169	6.369	48.530	50.000	-2.9
Endrin ketone	7.001	6.902	7.102	47.990	50.000	-4.0
gamma-BHC (Lindane)	3.734	3.635	3.835	51.400	50.000	2.8
gamma-Chlordane	5.134	5.035	5.235	50.510	50.000	1.0
Heptachlor	4.090	3.990	4.190	49.990	50.000	0.0
Heptachlor epoxide	4.881	4.781	4.981	50.080	50.000	0.2
Methoxychlor	6.765	6.667	6.867	46.620	50.000	-6.8
Tetrachloro-m-xylene	2.884	2.784	2.984	51.250	50.000	2.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 14:56
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA	Tetrachlo...	3.557	2.884	103.3E6	586.6E6	51.644	51.246
28)	SA	Decachlor...	9.087	8.087	146.0E6	636.1E6	45.884	45.652
		Target Compounds						
2)	A	alpha-BHC	4.007	3.398	216.8E6	916.9E6	53.865	52.035
3)	MA	gamma-BHC...	4.338	3.734	212.5E6	863.2E6	53.284	51.398
4)	MA	Heptachlor	4.938	4.090	203.8E6	812.6E6	51.906	49.989
5)	MB	Aldrin	5.281	4.376	212.2E6	862.7E6	52.059	51.604
6)	B	beta-BHC	4.521	4.030	80498874	362.5E6	51.039	50.614
7)	B	delta-BHC	4.770	4.267	215.9E6	877.1E6	52.970	51.590
8)	B	Heptachlo...	5.701	4.881	185.7E6	760.4E6	51.382	50.082
9)	A	Endosulfan I	6.084	5.256	170.0E6	713.3E6	50.648	50.245
10)	B	gamma-Chl...	5.955	5.134	180.0E6	785.7E6	50.962	50.509
11)	B	alpha-Chl...	6.037	5.199	180.8E6	767.8E6	50.592	50.242
12)	B	4,4'-DDE	6.205	5.385	164.1E6	779.8E6	50.449	51.730
13)	MA	Dieldrin	6.357	5.522	182.4E6	782.9E6	50.481	50.277
14)	MA	Endrin	6.584	5.798	148.8E6	683.2E6	49.159	48.839
15)	B	Endosulfa...	6.795	6.090	150.5E6	675.6E6	50.355	49.087
16)	A	4,4'-DDD	6.715	5.940	132.6E6	644.8E6	51.011	51.300
17)	MA	4,4'-DDT	7.031	6.194	131.5E6	622.8E6	46.537	46.705
18)	B	Endrin al...	6.924	6.268	118.6E6	538.4E6	48.502	48.534
19)	B	Endosulfa...	7.159	6.492	141.5E6	657.0E6	48.624	48.559
20)	A	Methoxychlor	7.504	6.765	71957142	334.4E6	44.993	46.618
21)	B	Endrin ke...	7.640	7.001	157.7E6	723.3E6	48.579	47.993
22)		Mirex	8.125	7.197	116.5E6	571.8E6	46.688	46.375

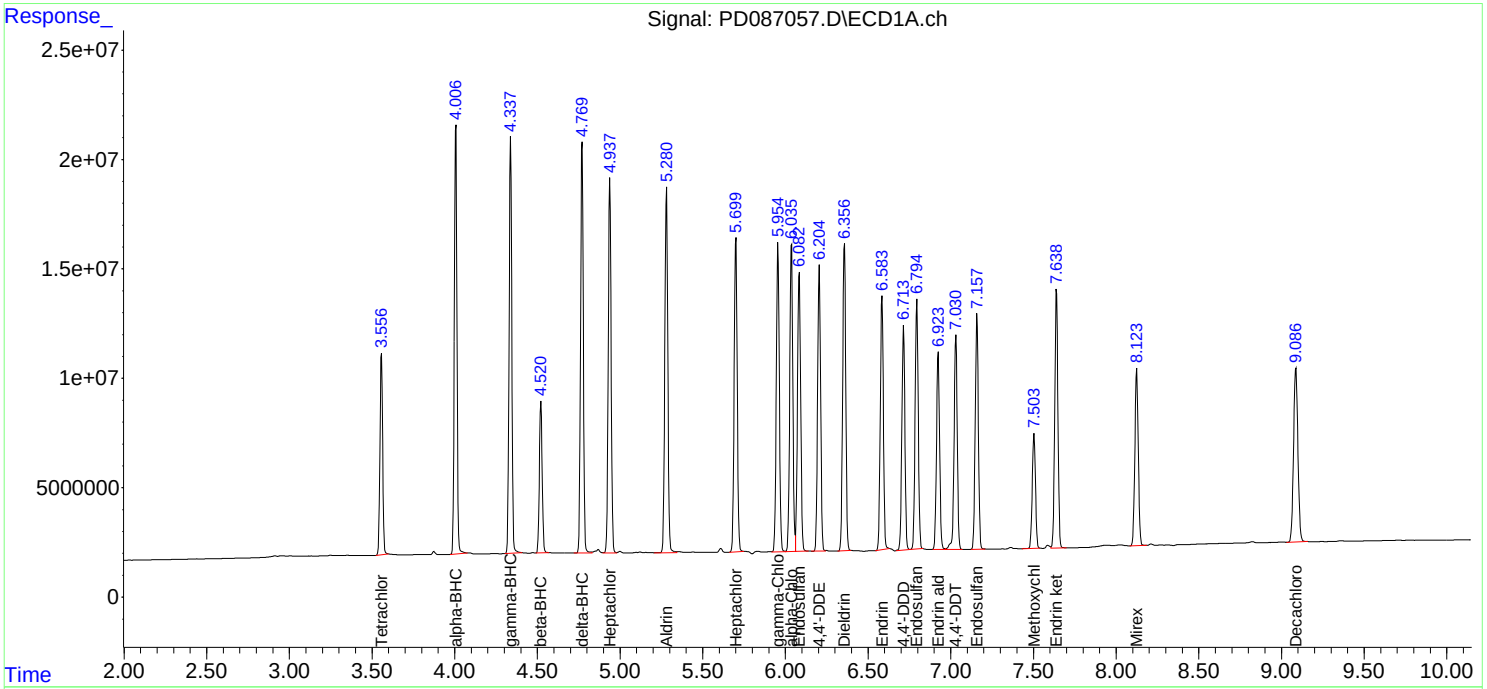
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

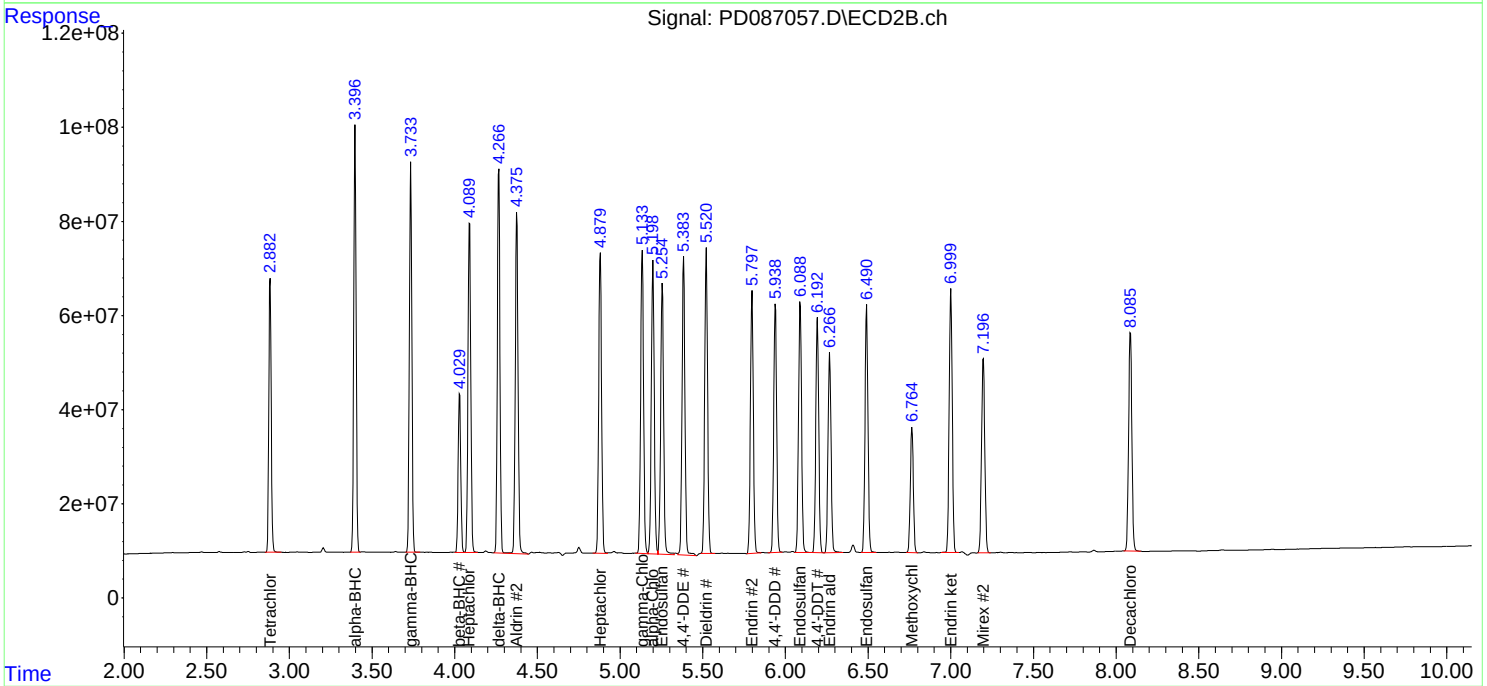
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087057.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 14:56
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:01 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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





Raw Data: **PD087071.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Continuing Calib Date: 12/06/2024 **Initial Calibration Date(s):** 11/27/2024 11/27/2024

Continuing Calib Time: 18:11 **Initial Calibration Time(s):** 11:29 12:24

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.09	9.09	8.99	9.19	0.00
Tetrachloro-m-xylene	3.56	3.56	3.46	3.66	0.00
alpha-BHC	4.01	4.01	3.91	4.11	0.00
beta-BHC	4.52	4.52	4.42	4.62	0.00
delta-BHC	4.77	4.77	4.67	4.87	0.00
gamma-BHC (Lindane)	4.34	4.34	4.24	4.44	0.00
Heptachlor	4.94	4.94	4.84	5.04	0.00
Aldrin	5.28	5.28	5.18	5.38	0.00
Heptachlor epoxide	5.70	5.70	5.60	5.80	0.00
Endosulfan I	6.08	6.08	5.98	6.18	0.00
Dieldrin	6.36	6.36	6.26	6.46	0.00
4,4'-DDE	6.21	6.21	6.11	6.31	0.01
Endrin	6.58	6.58	6.48	6.68	0.00
Endosulfan II	6.80	6.80	6.70	6.90	0.00
4,4'-DDD	6.71	6.71	6.61	6.81	0.00
Endosulfan sulfate	7.16	7.16	7.06	7.26	0.00
4,4'-DDT	7.03	7.03	6.93	7.13	0.00
Methoxychlor	7.50	7.50	7.40	7.60	0.00
Endrin ketone	7.64	7.64	7.54	7.74	0.00
Endrin aldehyde	6.92	6.92	6.82	7.02	0.00
alpha-Chlordane	6.04	6.04	5.94	6.14	0.00
gamma-Chlordane	5.96	5.96	5.86	6.06	0.01

Raw Data: **PD087071.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Continuing Calib Date: 12/06/2024 **Initial Calibration Date(s):** 11/27/2024 11/27/2024

Continuing Calib Time: 18:11 **Initial Calibration Time(s):** 11:29 12:24

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	8.09	8.09	7.99	8.19	0.00
Tetrachloro-m-xylene	2.88	2.88	2.78	2.98	0.00
alpha-BHC	3.40	3.40	3.30	3.50	0.00
beta-BHC	4.03	4.03	3.93	4.13	0.00
delta-BHC	4.27	4.27	4.17	4.37	0.00
gamma-BHC (Lindane)	3.73	3.74	3.64	3.84	0.01
Heptachlor	4.09	4.09	3.99	4.19	0.00
Aldrin	4.38	4.38	4.28	4.48	0.00
Heptachlor epoxide	4.88	4.88	4.78	4.98	0.00
Endosulfan I	5.26	5.26	5.16	5.36	0.00
Dieldrin	5.52	5.52	5.42	5.62	0.00
4,4'-DDE	5.38	5.39	5.29	5.49	0.01
Endrin	5.80	5.80	5.70	5.90	0.00
Endosulfan II	6.09	6.09	5.99	6.19	0.00
4,4'-DDD	5.94	5.94	5.84	6.04	0.00
Endosulfan sulfate	6.49	6.49	6.39	6.59	0.00
4,4'-DDT	6.19	6.19	6.09	6.29	0.00
Methoxychlor	6.77	6.77	6.67	6.87	0.00
Endrin ketone	7.00	7.00	6.90	7.10	0.00
Endrin aldehyde	6.27	6.27	6.17	6.37	0.00
alpha-Chlordane	5.20	5.20	5.10	5.30	0.00
gamma-Chlordane	5.13	5.14	5.04	5.24	0.01

Raw Data: **PD087071.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/06/2024

Lab Sample No.: PSTDCCC050 **Data File :** PD087071.D **Time Analyzed:** 18:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.714	6.614	6.814	52.060	50.000	4.1
4,4'-DDE	6.205	6.105	6.305	50.450	50.000	0.9
4,4'-DDT	7.031	6.931	7.131	45.500	50.000	-9.0
Aldrin	5.280	5.180	5.380	51.970	50.000	3.9
alpha-BHC	4.007	3.907	4.107	53.630	50.000	7.3
alpha-Chlordane	6.036	5.936	6.136	50.470	50.000	0.9
beta-BHC	4.521	4.421	4.621	50.830	50.000	1.7
Decachlorobiphenyl	9.088	8.989	9.189	46.760	50.000	-6.5
delta-BHC	4.770	4.670	4.870	52.860	50.000	5.7
Dieldrin	6.356	6.257	6.457	50.500	50.000	1.0
Endosulfan I	6.084	5.984	6.184	50.540	50.000	1.1
Endosulfan II	6.795	6.695	6.895	50.600	50.000	1.2
Endosulfan sulfate	7.158	7.058	7.258	49.110	50.000	-1.8
Endrin	6.584	6.484	6.684	49.110	50.000	-1.8
Endrin aldehyde	6.924	6.824	7.024	48.450	50.000	-3.1
Endrin ketone	7.639	7.540	7.740	49.240	50.000	-1.5
gamma-BHC (Lindane)	4.338	4.238	4.438	53.040	50.000	6.1
gamma-Chlordane	5.955	5.855	6.055	50.790	50.000	1.6
Heptachlor	4.939	4.838	5.038	51.360	50.000	2.7
Heptachlor epoxide	5.700	5.600	5.800	51.220	50.000	2.4
Methoxychlor	7.503	7.403	7.603	44.410	50.000	-11.2
Tetrachloro-m-xylene	3.557	3.457	3.657	51.600	50.000	3.2

Raw Data: **PD087071.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/06/2024

Lab Sample No.: PSTDCCC050 **Data File :** PD087071.D **Time Analyzed:** 18:11

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.939	5.840	6.040	51.570	50.000	3.1
4,4'-DDE	5.383	5.285	5.485	49.690	50.000	-0.6
4,4'-DDT	6.194	6.094	6.294	45.190	50.000	-9.6
Aldrin	4.376	4.277	4.477	51.230	50.000	2.5
alpha-BHC	3.397	3.298	3.498	51.710	50.000	3.4
alpha-Chlordane	5.199	5.100	5.300	49.780	50.000	-0.4
beta-BHC	4.030	3.930	4.130	50.400	50.000	0.8
Decachlorobiphenyl	8.086	7.987	8.187	46.390	50.000	-7.2
delta-BHC	4.267	4.168	4.368	51.490	50.000	3.0
Dieldrin	5.522	5.422	5.622	49.730	50.000	-0.5
Endosulfan I	5.255	5.157	5.357	50.010	50.000	0.0
Endosulfan II	6.090	5.990	6.190	48.630	50.000	-2.7
Endosulfan sulfate	6.492	6.393	6.593	48.330	50.000	-3.3
Endrin	5.798	5.699	5.899	48.400	50.000	-3.2
Endrin aldehyde	6.268	6.169	6.369	47.860	50.000	-4.3
Endrin ketone	7.001	6.902	7.102	48.250	50.000	-3.5
gamma-BHC (Lindane)	3.734	3.635	3.835	51.160	50.000	2.3
gamma-Chlordane	5.134	5.035	5.235	50.010	50.000	0.0
Heptachlor	4.089	3.990	4.190	49.530	50.000	-0.9
Heptachlor epoxide	4.880	4.781	4.981	49.660	50.000	-0.7
Methoxychlor	6.766	6.667	6.867	45.880	50.000	-8.2
Tetrachloro-m-xylene	2.883	2.784	2.984	50.830	50.000	1.7

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:11
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:26:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA	Tetrachlo...	3.557	2.883	103.2E6	581.8E6	51.601	50.826
28)	SA	Decachlor...	9.088	8.086	148.7E6	646.3E6	46.762	46.386
		Target Compounds						
2)	A	alpha-BHC	4.007	3.397	215.8E6	911.2E6	53.627	51.710
3)	MA	gamma-BHC...	4.338	3.734	211.6E6	859.3E6	53.042	51.164
4)	MA	Heptachlor	4.939	4.089	201.7E6	805.2E6	51.360	49.533
5)	MB	Aldrin	5.280	4.376	211.8E6	856.4E6	51.974	51.227
6)	B	beta-BHC	4.521	4.030	80174100	361.0E6	50.833	50.405
7)	B	delta-BHC	4.770	4.267	215.5E6	875.5E6	52.858	51.495
8)	B	Heptachlo...	5.700	4.880	185.1E6	754.0E6	51.221	49.659
9)	A	Endosulfan I	6.084	5.255	169.6E6	710.0E6	50.538	50.009
10)	B	gamma-Chl...	5.955	5.134	179.5E6	777.9E6	50.794	50.010
11)	B	alpha-Chl...	6.036	5.199	180.3E6	760.7E6	50.468	49.775
12)	B	4,4'-DDE	6.205	5.383	164.2E6	749.0E6	50.451	49.687m
13)	MA	Dieldrin	6.356	5.522	182.4E6	774.3E6	50.497	49.728
14)	MA	Endrin	6.584	5.798	148.6E6	677.0E6	49.113	48.395
15)	B	Endosulfa...	6.795	6.090	151.2E6	669.3E6	50.599	48.629
16)	A	4,4'-DDD	6.714	5.939	135.3E6	648.3E6	52.057	51.573
17)	MA	4,4'-DDT	7.031	6.194	128.5E6	602.5E6	45.499	45.189
18)	B	Endrin al...	6.924	6.268	118.4E6	531.0E6	48.446	47.864
19)	B	Endosulfa...	7.158	6.492	142.9E6	653.9E6	49.107	48.331
20)	A	Methoxychlor	7.503	6.766	71018710	329.1E6	44.407	45.879
21)	B	Endrin ke...	7.639	7.001	159.8E6	727.2E6	49.241	48.249
22)		Mirex	8.124	7.198	117.8E6	570.1E6	47.195	46.233

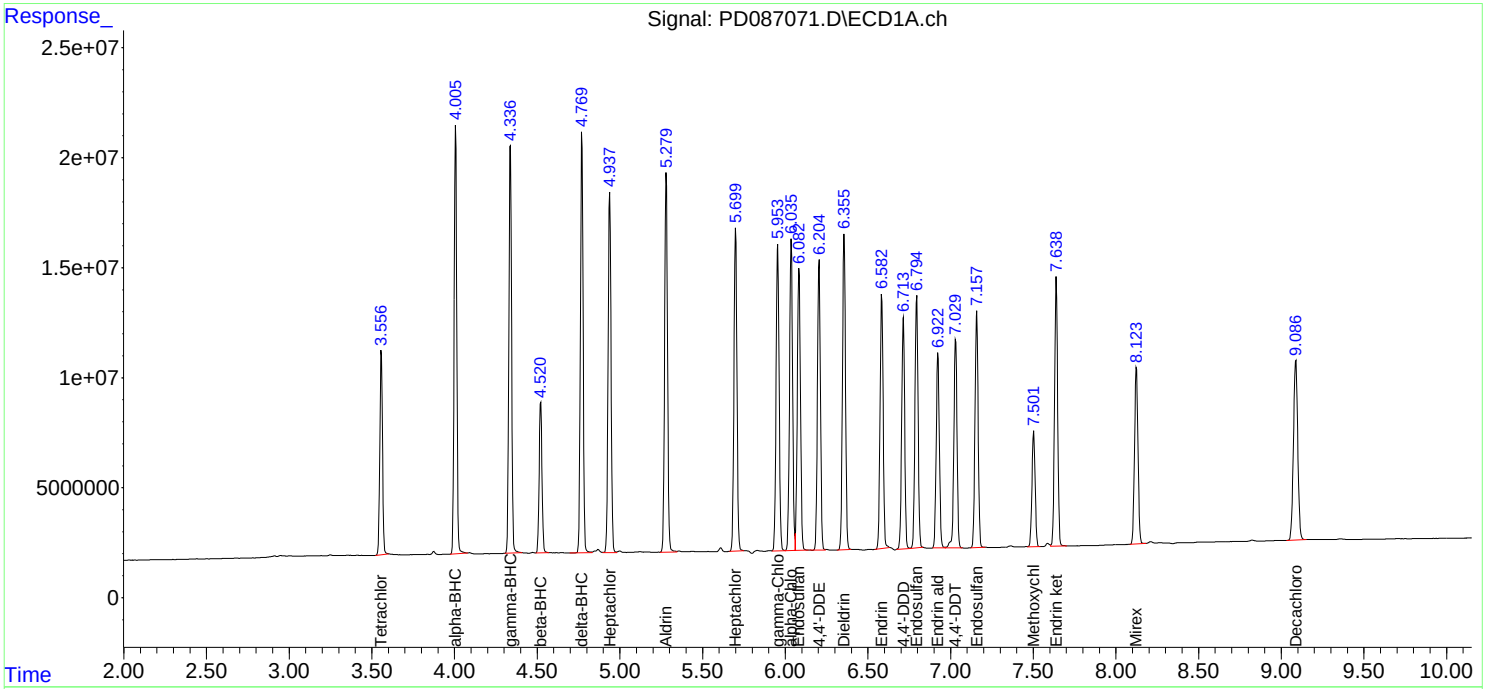
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

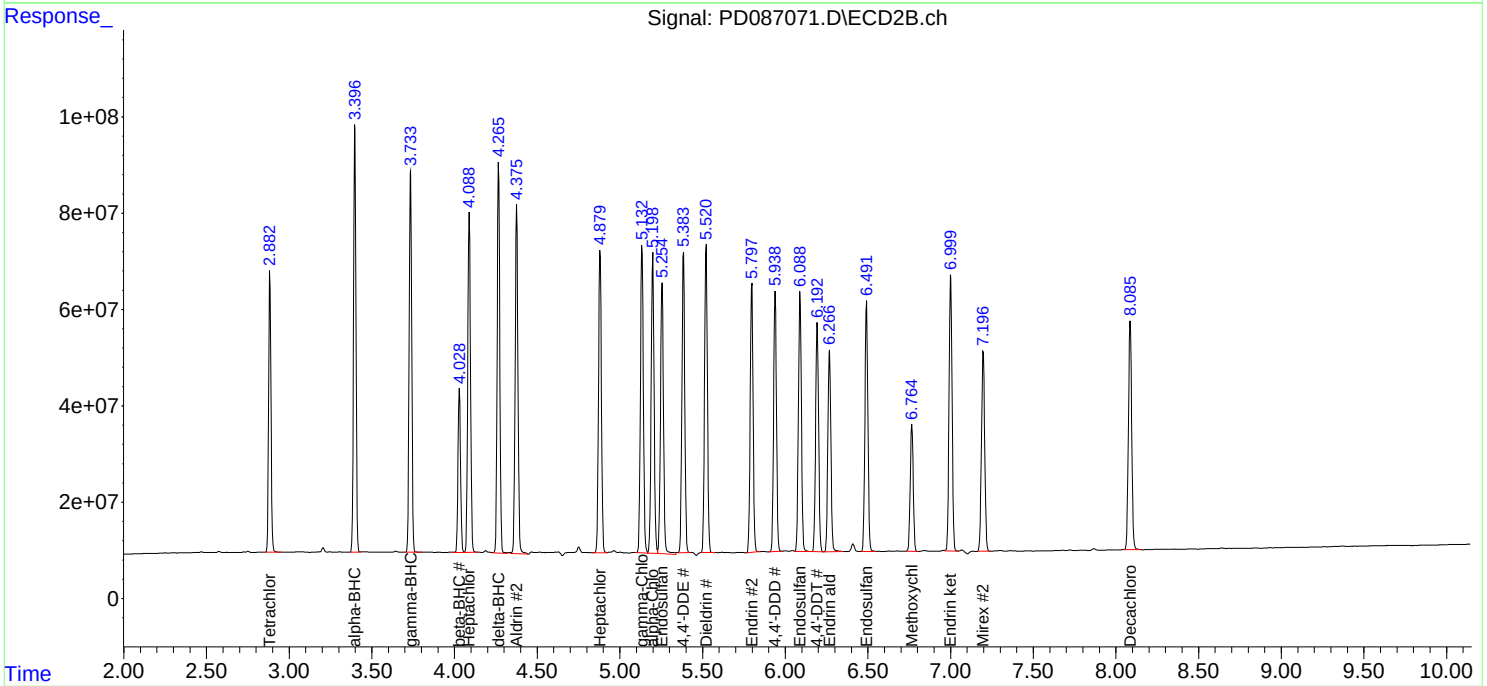
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087071.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 18:11
Operator : AR\AJ
Sample : PSTDCCC050
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PSTDCCC050

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:26:00 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No. (PEM): PEM - PD086945.D **Date Analyzed:** 11/27/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:01

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.087	8.990	9.190	20.910	20.000	4.6
Tetrachloro-m-xylene	3.557	3.510	3.610	19.720	20.000	-1.4
alpha-BHC	4.006	3.960	4.060	9.000	10.000	-10.0
beta-BHC	4.521	4.470	4.570	10.570	10.000	5.7
gamma-BHC (Lindane)	4.337	4.290	4.390	9.050	10.000	-9.5
Endrin	6.584	6.510	6.650	45.930	50.000	-8.1
4,4'-DDT	7.031	6.960	7.100	102.600	100.000	2.6
Methoxychlor	7.503	7.430	7.570	237.070	250.000	-5.2

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No. (PEM): PEM - PD086945.D **Date Analyzed:** 11/27/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:01

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.087	7.990	8.190	21.180	20.000	5.9
Tetrachloro-m-xylene	2.884	2.830	2.930	20.660	20.000	3.3
alpha-BHC	3.398	3.350	3.450	10.820	10.000	8.2
beta-BHC	4.030	3.980	4.080	11.350	10.000	13.5
gamma-BHC (Lindane)	3.735	3.680	3.790	10.610	10.000	6.1
Endrin	5.798	5.730	5.870	46.280	50.000	-7.4
4,4'-DDT	6.195	6.120	6.270	93.630	100.000	-6.4
Methoxychlor	6.766	6.700	6.840	194.400	250.000	-22.2

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086945.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:01
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:49:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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							
1)	SA Tetrachlo...	3.557	2.884	39428434	236.5E6	19.717	20.657	
28)	SA Decachlor...	9.087	8.087	66521357	295.0E6	20.912	21.177	
	Target Compounds							
2)	A alpha-BHC	4.006	3.398	36235993	190.6E6	9.005	10.819	
3)	MA gamma-BHC...	4.337	3.735	36102856	178.2E6	9.052	10.608	
6)	B beta-BHC	4.521	4.030	16665842	81282986	10.567	11.349	
14)	MA Endrin	6.584	5.798	139.0E6	647.4E6	45.935	46.283	
16)	A 4,4'-DDD	6.713	5.940	578999	3015730	0.223m	0.240m	
17)	MA 4,4'-DDT	7.031	6.195	289.8E6	1248.5E6	102.603	93.631	
18)	B Endrin al...	6.924	6.268	3281809	20413104	1.342	1.840	#
20)	A Methoxychlor	7.503	6.766	379.1E6	1394.5E6	237.067	194.401	
21)	B Endrin ke...	7.639	7.001	6424480	39136716	1.980	2.597	#

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086945.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 11:01
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

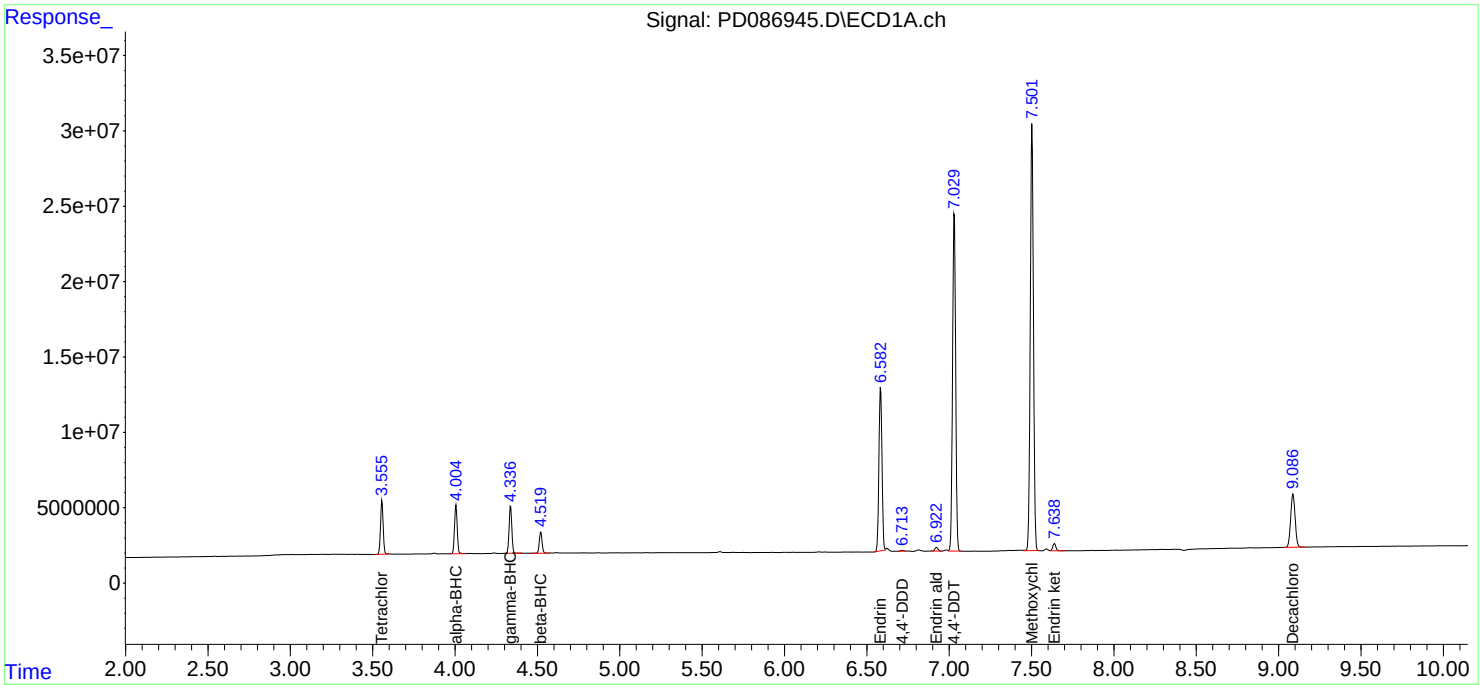
Instrument :
ECD_D
ClientSampleId :
PEM

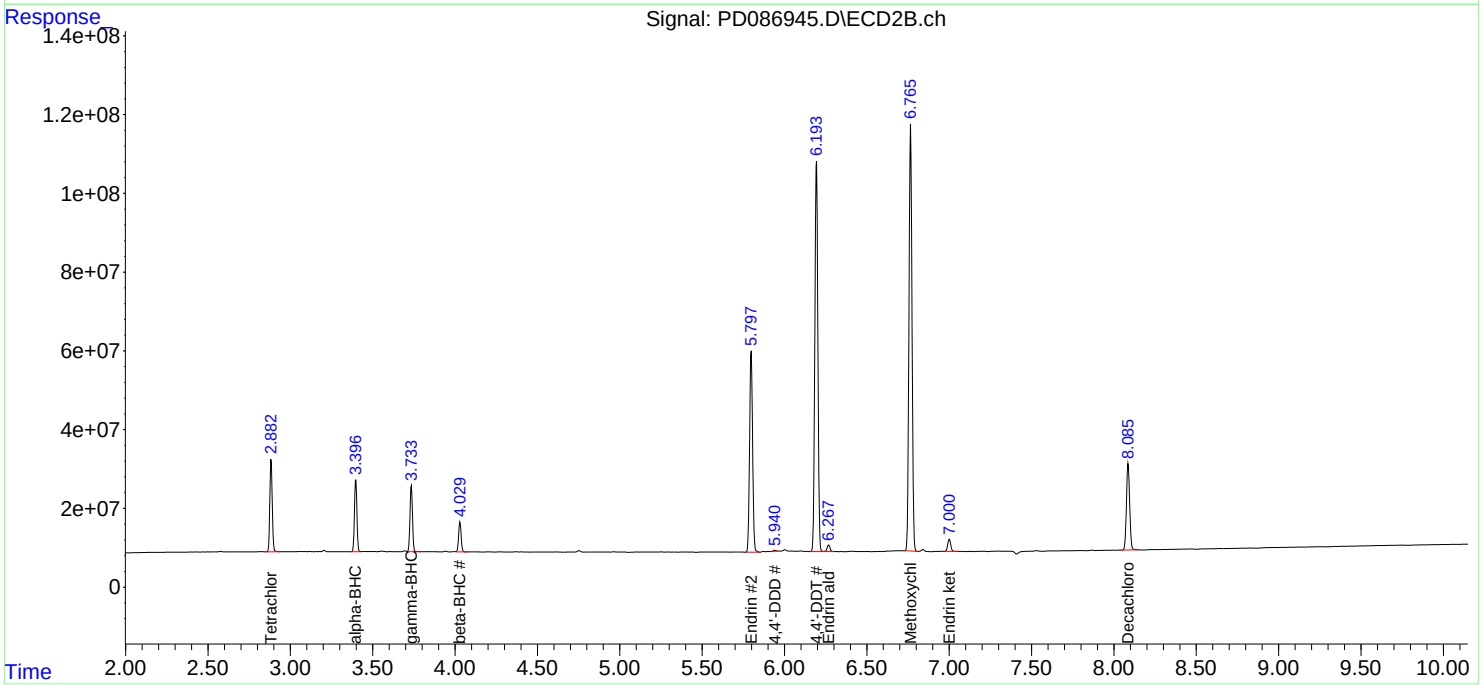
Manual Integrations APPROVED

Reviewed By :Yogesh Patel 12/02/2024
Supervised By :Ankita Jodhani 12/02/2024

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:49:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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

PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No. (PEM): PEM - PD087047.D **Date Analyzed:** 12/06/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.089	8.990	9.190	18.340	20.000	-8.3
Tetrachloro-m-xylene	3.558	3.510	3.610	19.500	20.000	-2.5
alpha-BHC	4.007	3.960	4.060	8.960	10.000	-10.4
beta-BHC	4.522	4.470	4.570	10.550	10.000	5.5
gamma-BHC (Lindane)	4.338	4.290	4.390	8.950	10.000	-10.5
Endrin	6.584	6.510	6.650	42.440	50.000	-15.1
4,4'-DDT	7.032	6.960	7.100	91.200	100.000	-8.8
Methoxychlor	7.504	7.430	7.570	210.340	250.000	-15.9

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/27/2024 11/27/2024

Client Sample No. (PEM): PEM - PD087047.D **Date Analyzed:** 12/06/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 10:43

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	8.086	7.990	8.190	19.160	20.000	-4.2
Tetrachloro-m-xylene	2.884	2.830	2.930	20.620	20.000	3.1
alpha-BHC	3.397	3.350	3.450	10.810	10.000	8.1
beta-BHC	4.030	3.980	4.080	11.250	10.000	12.5
gamma-BHC (Lindane)	3.734	3.680	3.780	10.490	10.000	4.9
Endrin	5.798	5.730	5.870	42.630	50.000	-14.7
4,4'-DDT	6.193	6.120	6.260	84.560	100.000	-15.4
Methoxychlor	6.766	6.700	6.840	172.500	250.000	-31.0

Quantitation Report (QT Reviewed)

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 10:43
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:19:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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							
1)	SA Tetrachlo...	3.558	2.884	39003537	236.0E6	19.504	20.615	
28)	SA Decachlor...	9.089	8.086	58338555	267.0E6	18.340	19.160	
	Target Compounds							
2)	A alpha-BHC	4.007	3.397	36048785	190.5E6	8.958	10.813	
3)	MA gamma-BHC...	4.338	3.734	35713191	176.2E6	8.954	10.493	
6)	B beta-BHC	4.522	4.030	16635572	80590034	10.547	11.253	
14)	MA Endrin	6.584	5.798	128.4E6	596.4E6	42.442	42.631	
16)	A 4,4'-DDD	6.714	5.939	7649357	34479246	2.943	2.743	
17)	MA 4,4'-DDT	7.032	6.193	257.6E6	1127.5E6	91.204	84.557	
18)	B Endrin al...	6.925	6.268	3701671	21359571	1.514	1.925	#
20)	A Methoxychlor	7.504	6.766	336.4E6	1237.4E6	210.338	172.500	
21)	B Endrin ke...	7.640	7.000	7680014	48597779	2.367	3.224	#

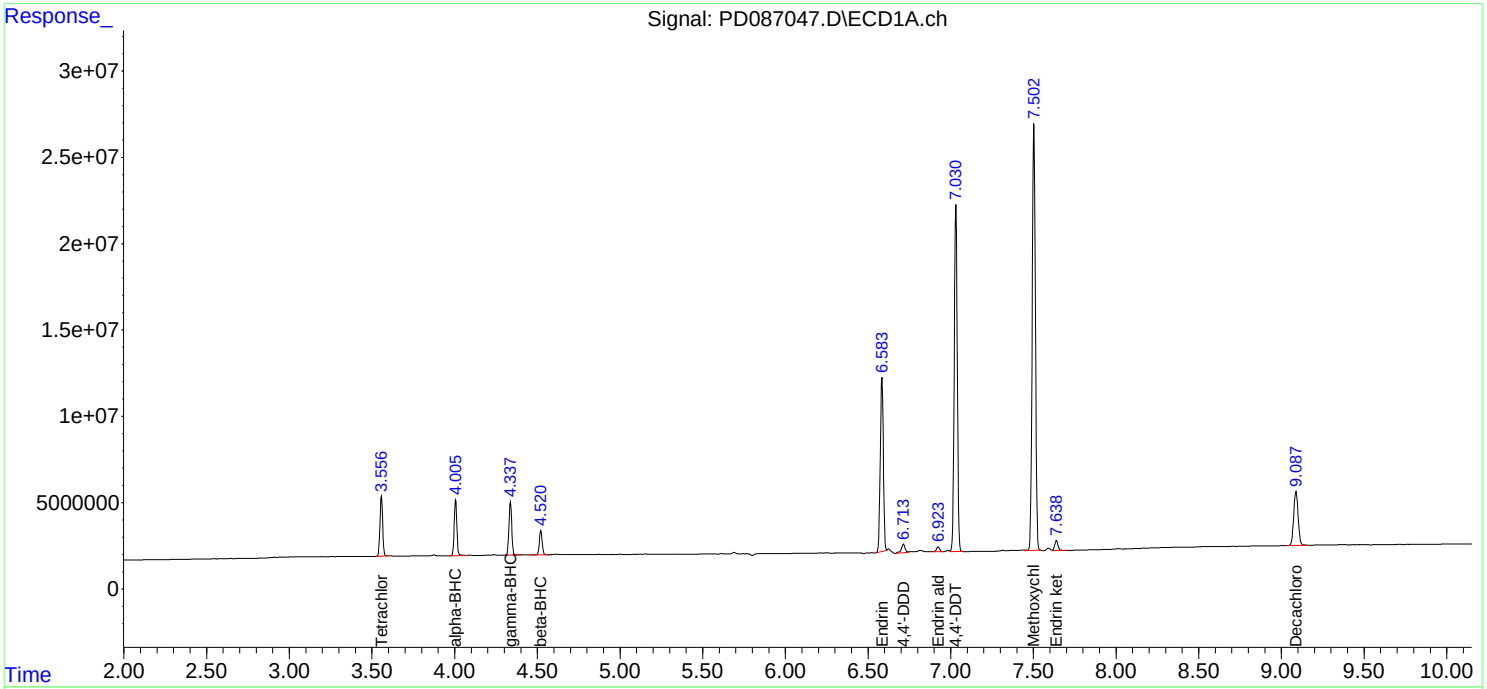
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

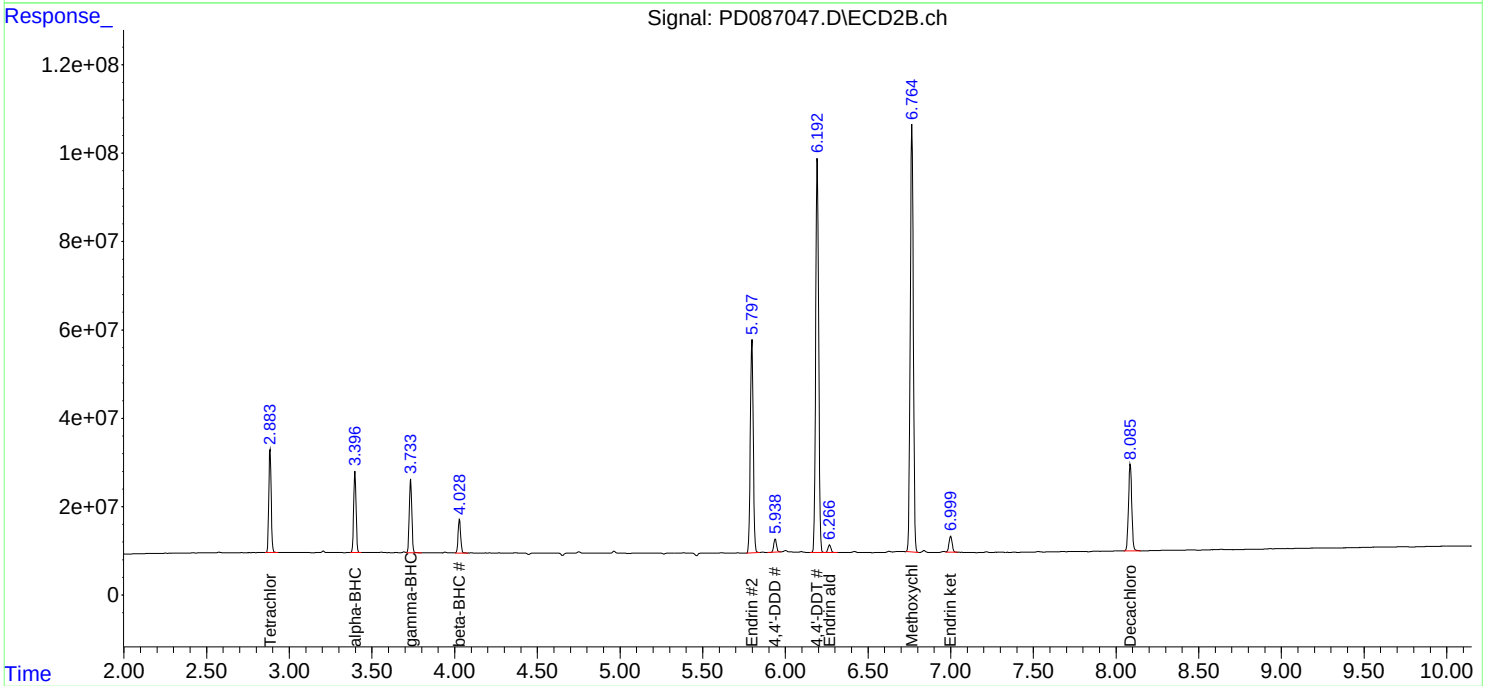
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087047.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 10:43
Operator : AR\AJ
Sample : PEM
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PEM

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:19:02 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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

Analytical Sequence

Client: R3M Engineering, Inc. **SDG No.:** P5093

Project: MC054.36 23-8-1 LM - Landing Lane New B **Instrument ID:** ECD_D

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/27/2024 11/27/2024

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	DCB RT #	TCX RT #
I.BLK	I.BLK	11/27/2024	10:47	PD086944.D	9.09	3.56
PEM	PEM	11/27/2024	11:01	PD086945.D	9.09	3.56
RESCHK	RESCHK	11/27/2024	11:15	PD086946.D	9.09	3.56
PSTDICC100	PSTDICC100	11/27/2024	11:29	PD086947.D	9.09	3.56
PSTDICC075	PSTDICC075	11/27/2024	11:42	PD086948.D	9.09	3.56
PSTDICC050	PSTDICC050	11/27/2024	11:56	PD086949.D	9.09	3.56
PSTDICC025	PSTDICC025	11/27/2024	12:10	PD086950.D	9.09	3.56
PSTDICC005	PSTDICC005	11/27/2024	12:24	PD086951.D	9.09	3.56
PCHLORICC500	PCHLORICC500	11/27/2024	13:06	PD086954.D	9.09	3.56
PTOXICC500	PTOXICC500	11/27/2024	14:16	PD086959.D	9.09	3.56
PEM	PEM	12/06/2024	10:43	PD087047.D	9.09	3.56
I.BLK	I.BLK	12/06/2024	14:42	PD087056.D	9.09	3.56
PSTDCCC050	PSTDCCC050	12/06/2024	14:56	PD087057.D	9.09	3.56
PB165431BL	PB165431BL	12/06/2024	15:10	PD087058.D	9.09	3.56
PB165431BS	PB165431BS	12/06/2024	15:24	PD087059.D	9.09	3.56
PB165431BSD	PB165431BSD	12/06/2024	15:38	PD087060.D	9.09	3.56
LL-001	P5093-01	12/06/2024	15:52	PD087061.D	9.09	3.56
LL-001-FB-12-4-24	P5093-02	12/06/2024	16:06	PD087062.D	9.09	3.56
I.BLK	I.BLK	12/06/2024	17:57	PD087070.D	9.09	3.56
PSTDCCC050	PSTDCCC050	12/06/2024	18:11	PD087071.D	9.09	3.56

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

Analytical Sequence

Client: R3M Engineering, Inc. **SDG No.:** P5093

Project: MC054.36 23-8-1 LM - Landing Lane New B **Instrument ID:** ECD_D

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/27/2024 11/27/2024

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	DCB RT #	TCX RT #
I.BLK	I.BLK	11/27/2024	10:47	PD086944.D	8.10	2.90
PEM	PEM	11/27/2024	11:01	PD086945.D	8.09	2.88
RESCHK	RESCHK	11/27/2024	11:15	PD086946.D	8.09	2.88
PSTDICC100	PSTDICC100	11/27/2024	11:29	PD086947.D	8.09	2.88
PSTDICC075	PSTDICC075	11/27/2024	11:42	PD086948.D	8.09	2.88
PSTDICC050	PSTDICC050	11/27/2024	11:56	PD086949.D	8.09	2.88
PSTDICC025	PSTDICC025	11/27/2024	12:10	PD086950.D	8.09	2.88
PSTDICC005	PSTDICC005	11/27/2024	12:24	PD086951.D	8.09	2.88
PCHLORICC500	PCHLORICC500	11/27/2024	13:06	PD086954.D	8.09	2.88
PTOXICC500	PTOXICC500	11/27/2024	14:16	PD086959.D	8.09	2.88
PEM	PEM	12/06/2024	10:43	PD087047.D	8.09	2.88
I.BLK	I.BLK	12/06/2024	14:42	PD087056.D	8.09	2.88
PSTDCCC050	PSTDCCC050	12/06/2024	14:56	PD087057.D	8.09	2.88
PB165431BL	PB165431BL	12/06/2024	15:10	PD087058.D	8.09	2.88
PB165431BS	PB165431BS	12/06/2024	15:24	PD087059.D	8.09	2.88
PB165431BSD	PB165431BSD	12/06/2024	15:38	PD087060.D	8.09	2.88
LL-001	P5093-01	12/06/2024	15:52	PD087061.D	8.09	2.88
LL-001-FB-12-4-24	P5093-02	12/06/2024	16:06	PD087062.D	8.09	2.88
I.BLK	I.BLK	12/06/2024	17:57	PD087070.D	8.09	2.88
PSTDCCC050	PSTDCCC050	12/06/2024	18:11	PD087071.D	8.09	2.88

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Fax : 908 789 8922

COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165431BS

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Lab Sample ID: PB165431BS **Date(s) Analyzed:** 12/06/2024 12/06/2024

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.80	6.75	6.85	0.50	1.8
	2	6.09	6.04	6.14	0.49	
4,4'-DDD	1	6.71	6.66	6.76	0.49	2.6
	2	5.94	5.89	5.99	0.51	
4,4'-DDT	1	7.03	6.98	7.08	0.47	2.2
	2	6.19	6.14	6.24	0.48	
Endrin aldehyde	1	6.92	6.87	6.97	0.47	0
	2	6.27	6.22	6.32	0.47	
Endosulfan sulfate	1	7.16	7.11	7.21	0.48	0.1
	2	6.49	6.44	6.54	0.48	
Methoxychlor	1	7.50	7.45	7.55	0.45	3.8
	2	6.77	6.72	6.82	0.47	
Endrin ketone	1	7.64	7.59	7.69	0.48	1
	2	7.00	6.95	7.05	0.48	
alpha-BHC	1	4.01	3.96	4.06	0.51	0.2
	2	3.40	3.35	3.45	0.51	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	0.50	0.5
	2	3.73	3.68	3.78	0.50	
Heptachlor	1	4.94	4.89	4.99	0.51	0.8
	2	4.09	4.04	4.14	0.50	
Aldrin	1	5.28	5.23	5.33	0.48	0.7
	2	4.38	4.33	4.43	0.49	
beta-BHC	1	4.52	4.47	4.57	0.49	4.1
	2	4.03	3.98	4.08	0.51	
delta-BHC	1	4.77	4.72	4.82	0.48	1.1
	2	4.27	4.22	4.32	0.49	
Heptachlor epoxide	1	5.70	5.65	5.75	0.49	0.8
	2	4.88	4.83	4.93	0.49	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165431BS

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Lab Sample ID: PB165431BS **Date(s) Analyzed:** 12/06/2024 12/06/2024

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.08	6.03	6.13	0.50	0.2
	2	5.26	5.21	5.31	0.50	
gamma-Chlordane	1	5.96	5.91	6.01	0.50	2.1
	2	5.13	5.08	5.18	0.51	
alpha-Chlordane	1	6.04	5.99	6.09	0.50	0.7
	2	5.20	5.15	5.25	0.50	
4,4'-DDE	1	6.21	6.16	6.26	0.50	0.6
	2	5.39	5.34	5.44	0.50	
Dieldrin	1	6.36	6.31	6.41	0.50	0.5
	2	5.52	5.47	5.57	0.50	
Endrin	1	6.58	6.53	6.63	0.47	3.5
	2	5.80	5.75	5.85	0.48	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165431BSD

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Lab Sample ID: PB165431BSD **Date(s) Analyzed:** 12/06/2024 12/06/2024

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan II	1	6.80	6.75	6.85	0.50	1.9
	2	6.09	6.04	6.14	0.49	
4,4'-DDD	1	6.72	6.67	6.77	0.49	2.2
	2	5.94	5.89	5.99	0.50	
4,4'-DDT	1	7.03	6.98	7.08	0.49	1.6
	2	6.20	6.15	6.25	0.48	
Endrin aldehyde	1	6.92	6.87	6.97	0.47	0.1
	2	6.27	6.22	6.32	0.47	
Endosulfan sulfate	1	7.16	7.11	7.21	0.48	0
	2	6.49	6.44	6.54	0.48	
Methoxychlor	1	7.50	7.45	7.55	0.45	3.5
	2	6.77	6.72	6.82	0.47	
Endrin ketone	1	7.64	7.59	7.69	0.48	0.8
	2	7.00	6.95	7.05	0.48	
alpha-BHC	1	4.01	3.96	4.06	0.51	0.2
	2	3.40	3.35	3.45	0.50	
gamma-BHC (Lindane)	1	4.34	4.29	4.39	0.49	0.7
	2	3.73	3.68	3.78	0.49	
Heptachlor	1	4.94	4.89	4.99	0.50	0.6
	2	4.09	4.04	4.14	0.50	
Aldrin	1	5.28	5.23	5.33	0.48	1
	2	4.38	4.33	4.43	0.48	
beta-BHC	1	4.52	4.47	4.57	0.49	4.4
	2	4.03	3.98	4.08	0.51	
delta-BHC	1	4.77	4.72	4.82	0.47	1.3
	2	4.27	4.22	4.32	0.48	
Heptachlor epoxide	1	5.70	5.65	5.75	0.48	0.4
	2	4.88	4.83	4.93	0.49	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165431BSD

Contract: RTHR01

Lab Code: CHEM **Case No.:** P5093 **SAS No.:** P5093 **SDG NO.:** P5093

Lab Sample ID: PB165431BSD **Date(s) Analyzed:** 12/06/2024 12/06/2024

Instrument ID (1): ECD_D **Instrument ID (2):** ECD_D

GC Column: (1): ZB-MR2 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR1 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
Endosulfan I	1	6.08	6.03	6.13	0.49	0.1
	2	5.26	5.21	5.31	0.49	
gamma-Chlordane	1	5.96	5.91	6.01	0.50	1.2
	2	5.13	5.08	5.18	0.50	
alpha-Chlordane	1	6.04	5.99	6.09	0.49	0.5
	2	5.20	5.15	5.25	0.50	
4,4'-DDE	1	6.21	6.16	6.26	0.49	0.8
	2	5.39	5.34	5.44	0.50	
Dieldrin	1	6.36	6.31	6.41	0.49	0.8
	2	5.52	5.47	5.57	0.50	
Endrin	1	6.58	6.53	6.63	0.46	3
	2	5.80	5.75	5.85	0.48	

QC SAMPLE DATA

Raw Data: **PD087058.D**

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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BL	SDG No.:	P5093
Lab Sample ID:	PB165431BL	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087058.D	1	12/06/24 08:32	12/06/24 15:10	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.3		30 (43) - 150 (140)	97%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.8		30 (77) - 150 (126)	104%	SPK: 20

Raw Data: **PD087058.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BL	SDG No.:	P5093
Lab Sample ID:	PB165431BL	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087058.D	1	12/06/24 08:32	12/06/24 15:10	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_D\Data\PD120624\
Data File : PD087058.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:10
Operator : AR\AJ
Sample : PB165431BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB165431BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA Tetrachlo...	3.557	2.884	38038257	238.3E6	19.021	20.821
28)	SA Decachlor...	9.087	8.086	60049660	269.4E6	18.878	19.333
	Target Compounds						

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

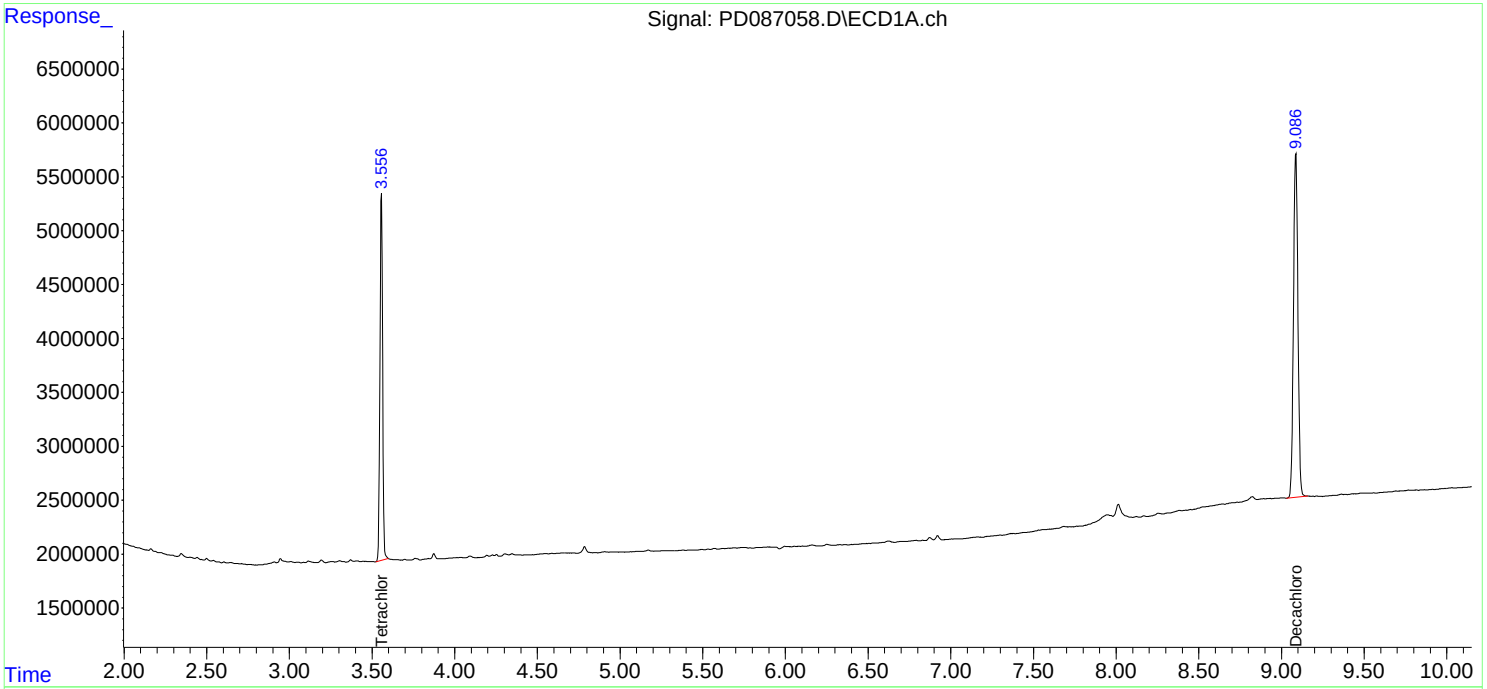
Sample Results: **PD087058.D**

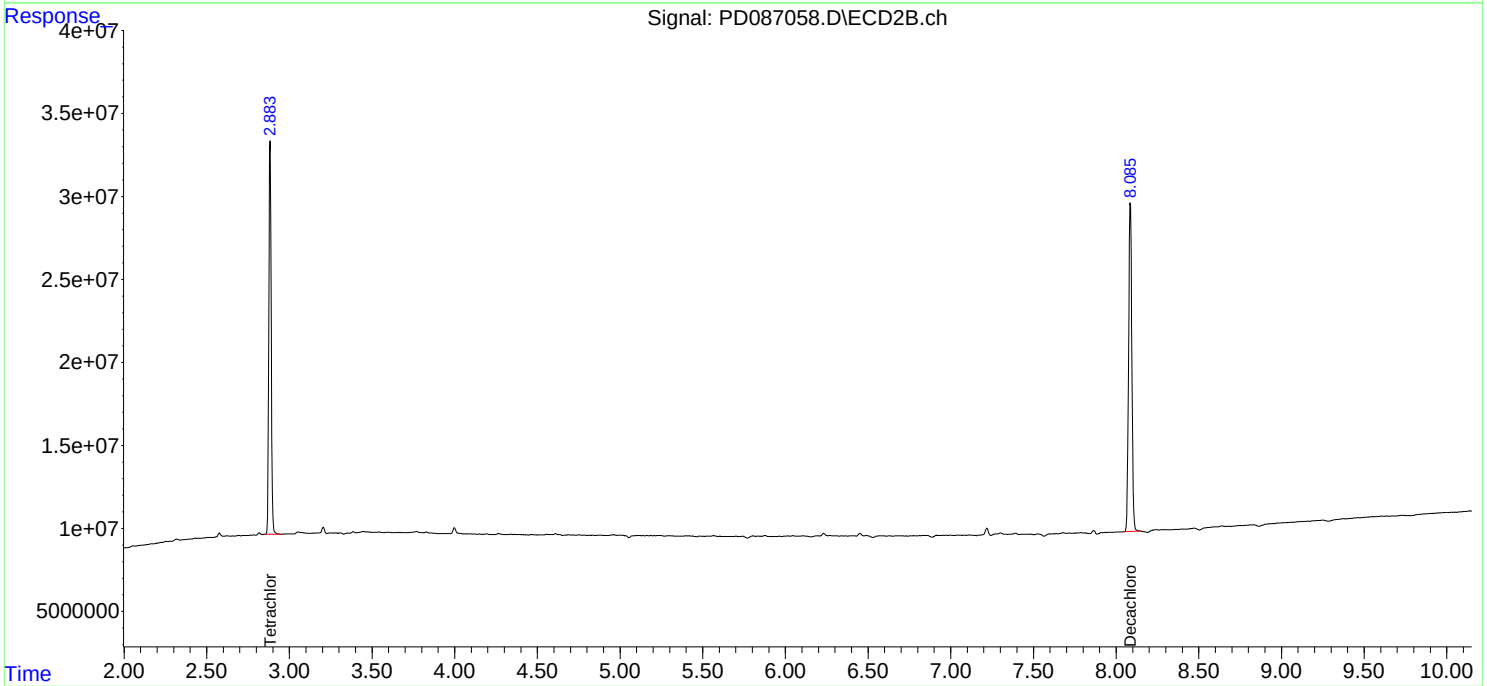
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087058.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:10
Operator : AR\AJ
Sample : PB165431BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

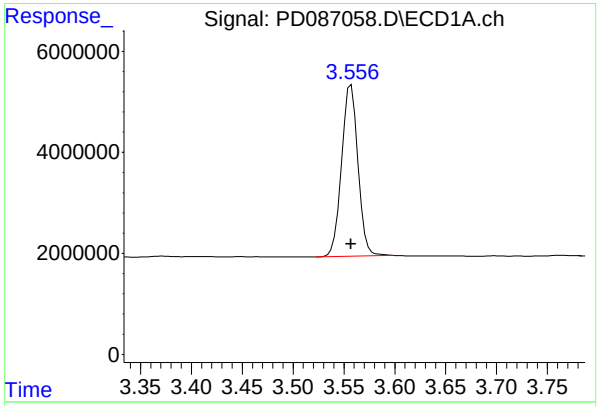
Instrument :
ECD_D
ClientSampleId :
PB165431BL

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:19 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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



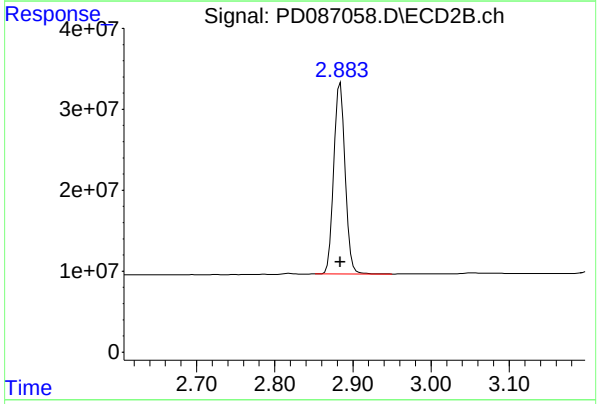




#1 Tetrachloro-m-xylene

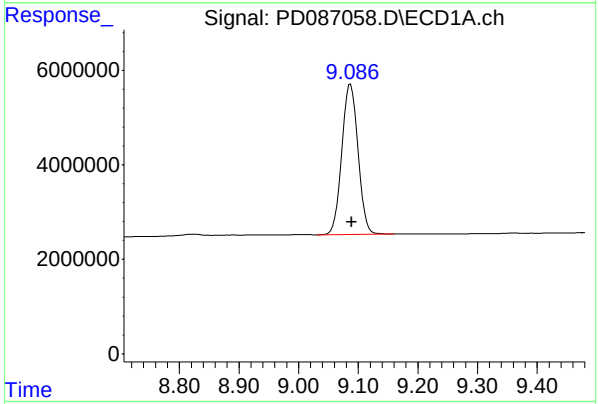
R.T.: 3.557 min
Delta R.T.: 0.000 min
Response: 38038257
Conc: 19.02 ng/ml

Instrument :
ECD_D
ClientSampleId :
PB165431BL



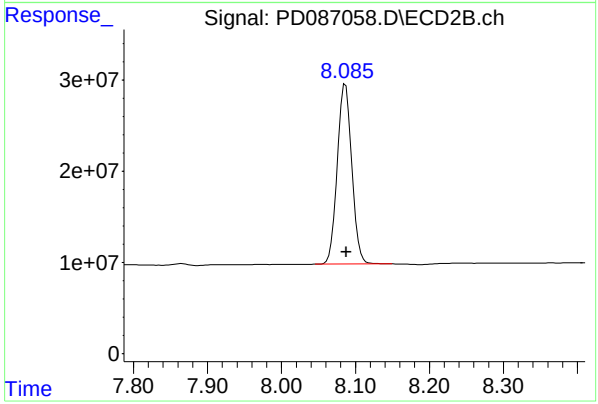
#1 Tetrachloro-m-xylene

R.T.: 2.884 min
Delta R.T.: 0.000 min
Response: 238320369
Conc: 20.82 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.087 min
Delta R.T.: -0.002 min
Response: 60049660
Conc: 18.88 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.086 min
Delta R.T.: 0.000 min
Response: 269368716
Conc: 19.33 ng/ml

Raw Data: **PD086944.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	11/27/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	11/27/24
Client Sample ID:	PIBLK-PD086944.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD086944.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD086944.D	1		11/27/24	PD112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	22.0		30 (43) - 150 (140)	110%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.1		30 (77) - 150 (126)	105%	SPK: 20

Raw Data: **PD086944.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	11/27/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	11/27/24
Client Sample ID:	PIBLK-PD086944.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD086944.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD086944.D	1		11/27/24	PD112724

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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_D\Data\PD112724\
Data File : PD086944.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 10:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:49:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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						
1)	SA Tetrachlo...	3.556	2.900	40337212	241.1E6	20.171	21.060
28)	SA Decachlor...	9.087	8.103	69972367	306.6E6	21.997	22.005
	Target Compounds						

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

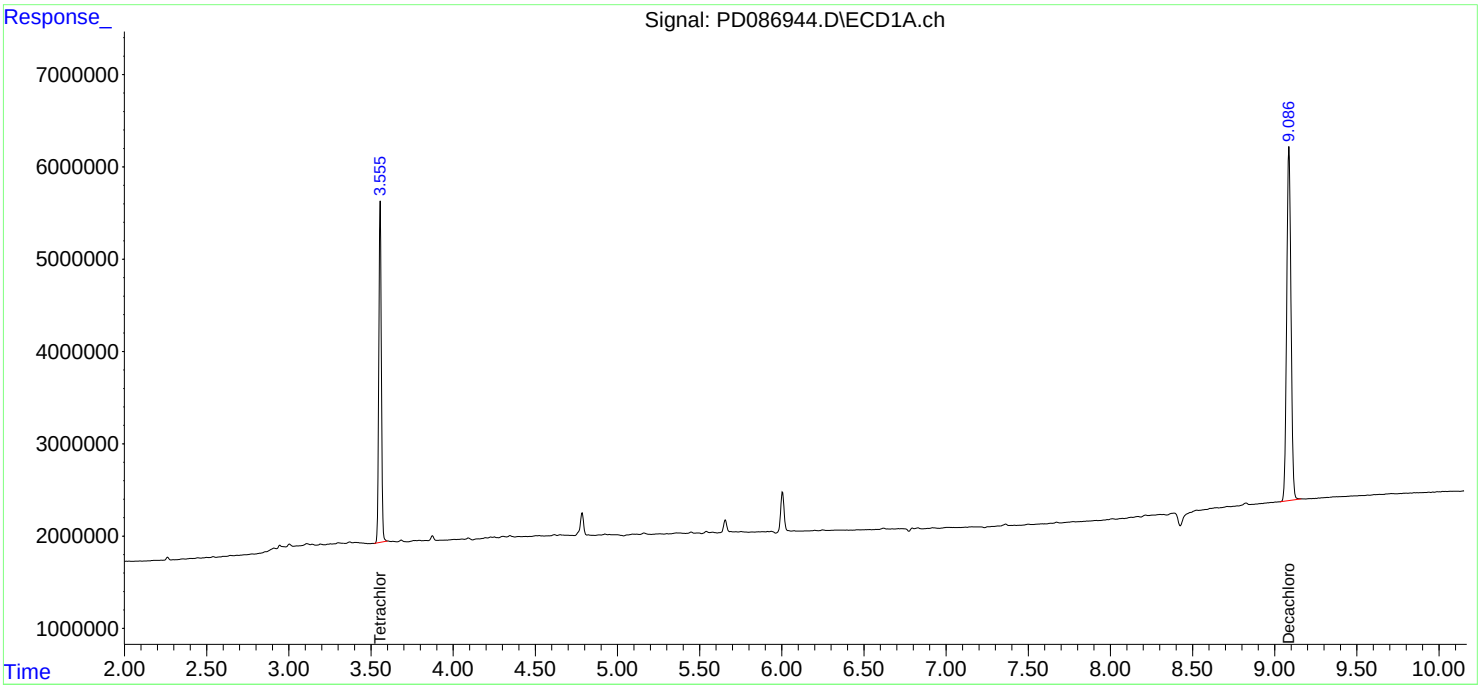
Sample Results: **PD086944.D**

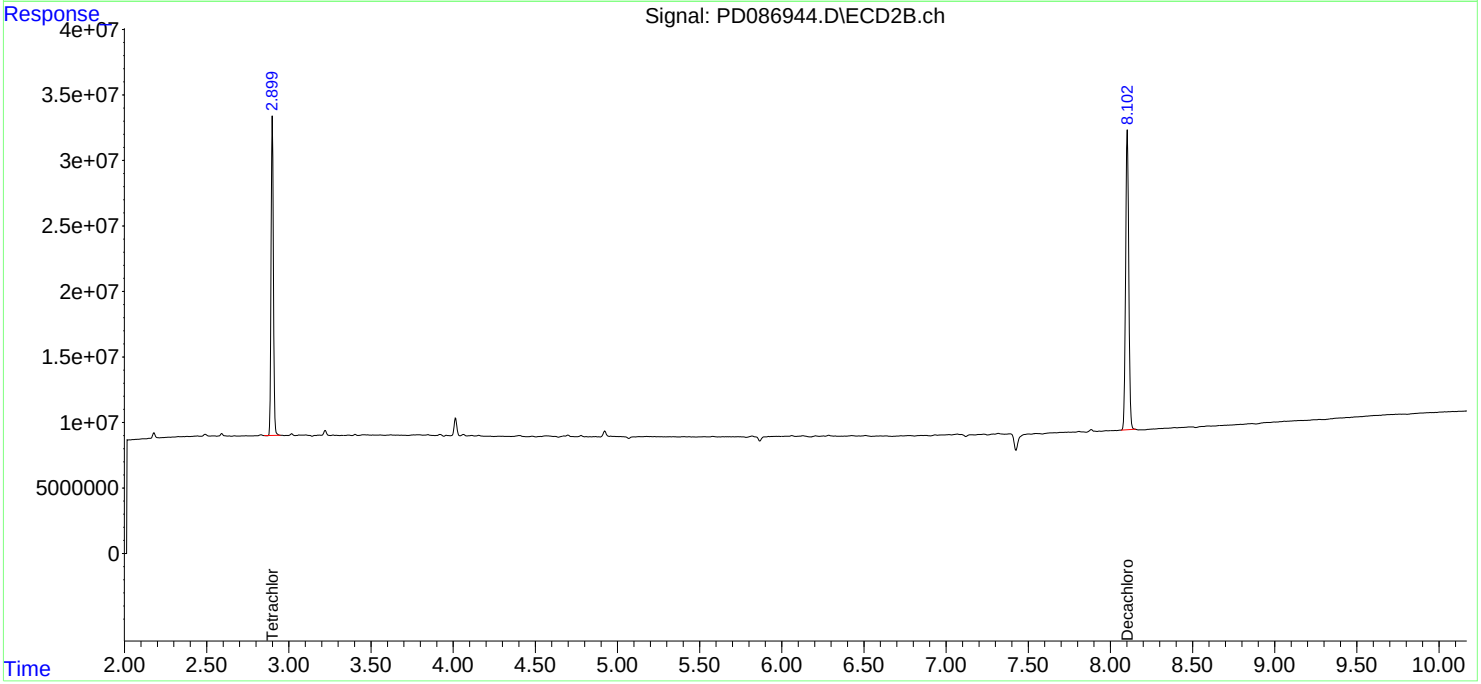
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD112724\
Data File : PD086944.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Nov 2024 10:47
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

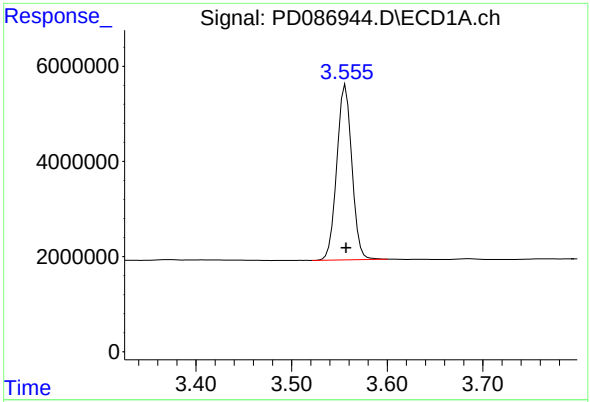
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Nov 27 13:49:05 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 13:46:45 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



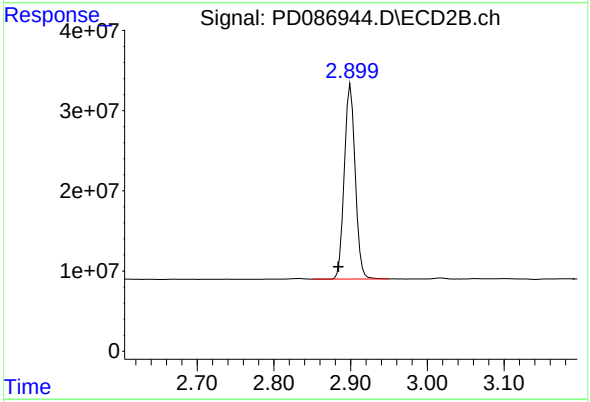




#1 Tetrachloro-m-xylene

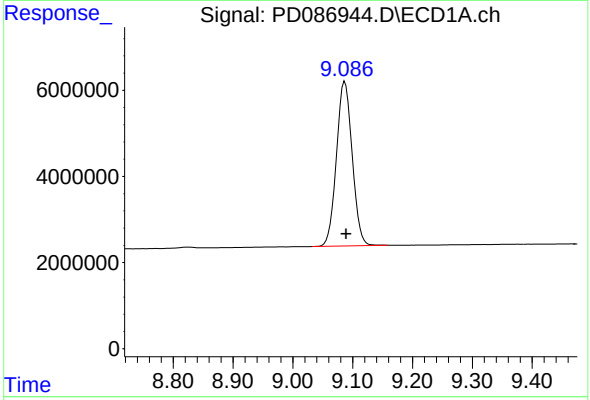
R.T.: 3.556 min
Delta R.T.: 0.000 min
Response: 40337212
Conc: 20.17 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



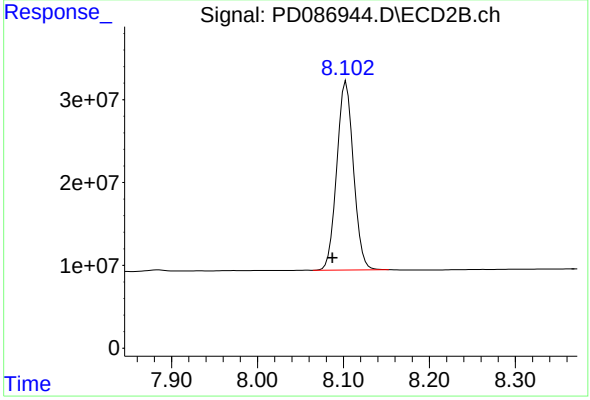
#1 Tetrachloro-m-xylene

R.T.: 2.900 min
Delta R.T.: 0.016 min
Response: 241061314
Conc: 21.06 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.087 min
Delta R.T.: -0.002 min
Response: 69972367
Conc: 22.00 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.103 min
Delta R.T.: 0.016 min
Response: 306599078
Conc: 22.01 ng/ml

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/06/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/06/24
Client Sample ID:	PIBLK-PD087056.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD087056.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087056.D	1		12/06/24	PD120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		30 (43) - 150 (140)	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	23.0		30 (77) - 150 (126)	115%	SPK: 20

Raw Data: **PD087056.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/06/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/06/24
Client Sample ID:	PIBLK-PD087056.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD087056.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087056.D	1		12/06/24	PD120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Quantitation Report (QT Reviewed)

Sample Results: **PD087056.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 14:42
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:21:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA Tetrachlo...	3.557	2.884	43867560	263.2E6	21.936	22.993
28)	SA Decachlor...	9.088	8.087	66263687	295.1E6	20.831	21.177
	Target Compounds						

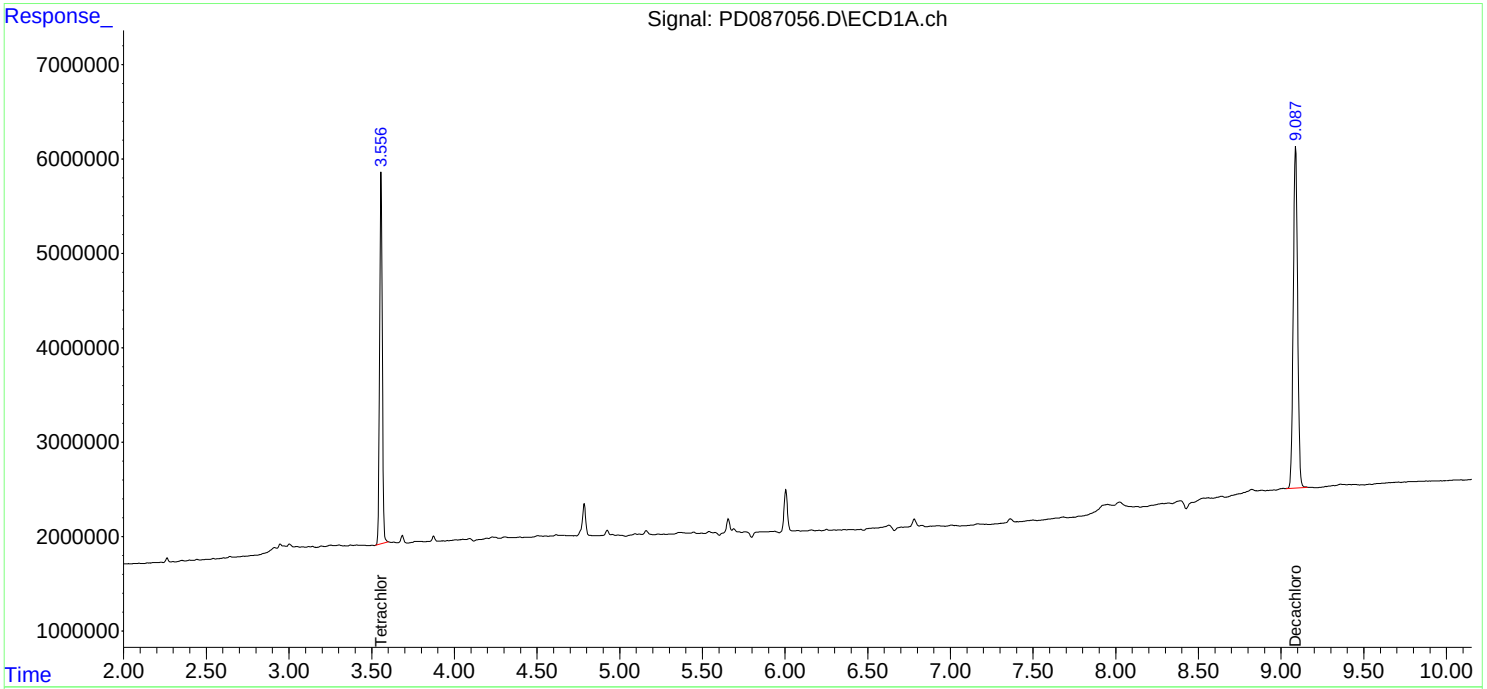
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

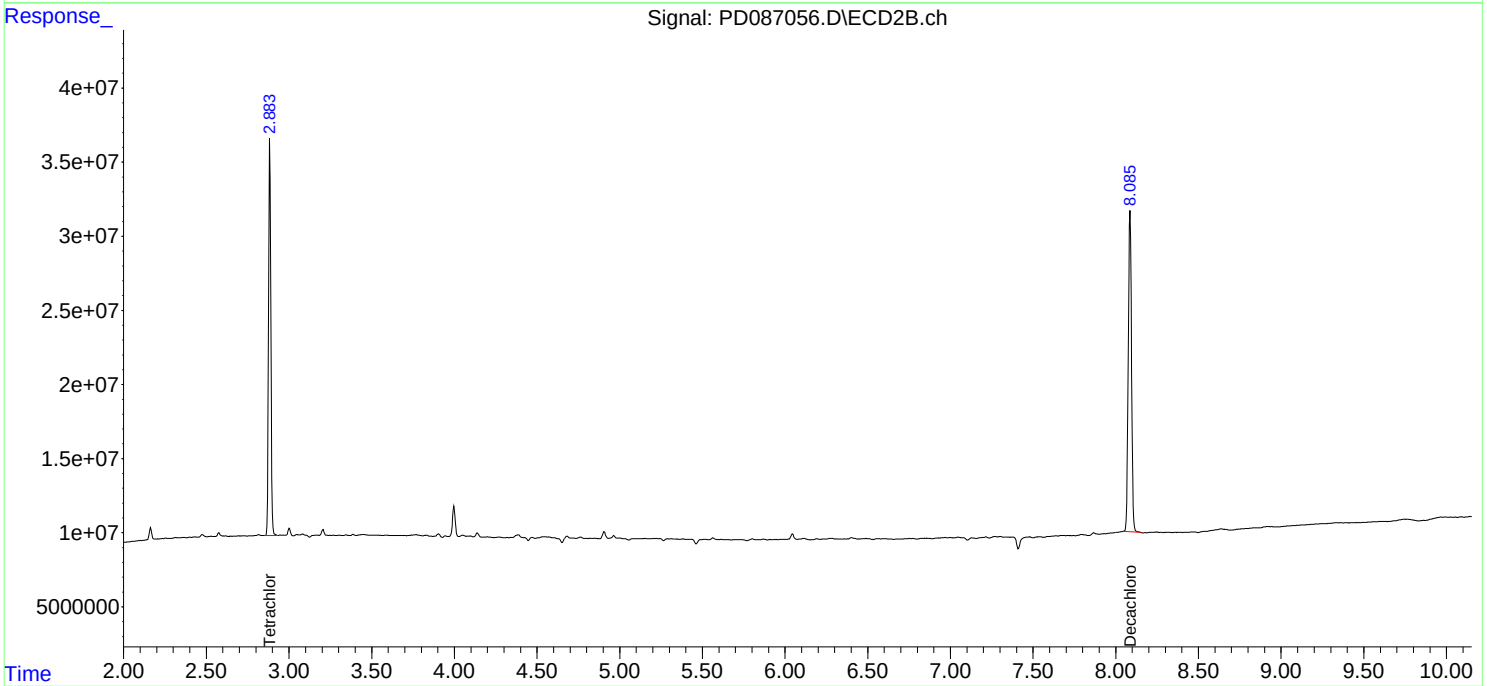
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087056.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 14:42
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

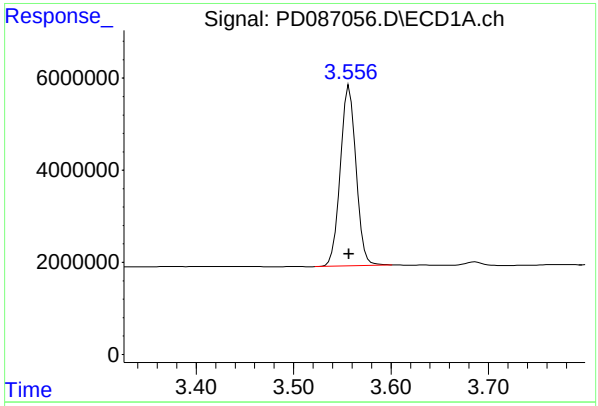
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:21:43 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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



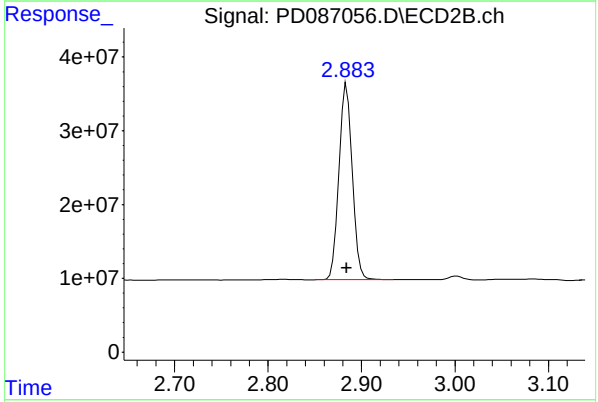




#1 Tetrachloro-m-xylene

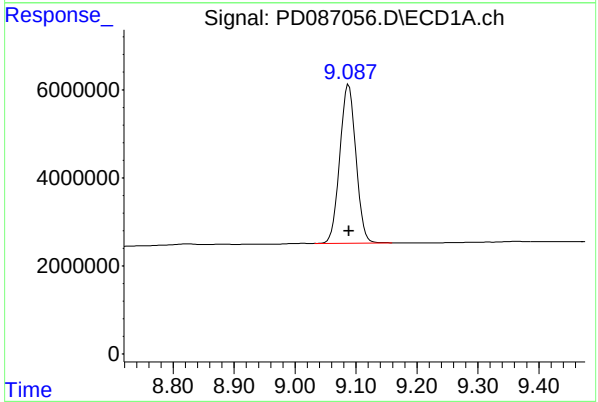
R.T.: 3.557 min
Delta R.T.: 0.000 min
Response: 43867560
Conc: 21.94 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



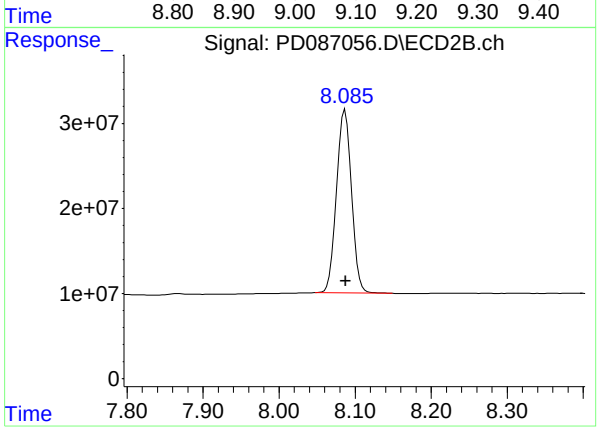
#1 Tetrachloro-m-xylene

R.T.: 2.884 min
Delta R.T.: 0.000 min
Response: 263190847
Conc: 22.99 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.088 min
Delta R.T.: 0.000 min
Response: 66263687
Conc: 20.83 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.087 min
Delta R.T.: 0.000 min
Response: 295054481
Conc: 21.18 ng/ml

Raw Data: **PD087070.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/06/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/06/24
Client Sample ID:	PIBLK-PD087070.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD087070.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087070.D	1		12/06/24	pd120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0061	U	0.0061	0.050	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.050	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.0049	U	0.0049	0.050	ug/L
76-44-8	Heptachlor	0.0054	U	0.0054	0.050	ug/L
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.0090	U	0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.0050	U	0.0050	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-20-8	Endrin	0.0043	U	0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.0075	U	0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.0035	U	0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.0097	U	0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.0099	U	0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.0060	U	0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.0060	U	0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.4		30 (43) - 150 (140)	107%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.4		30 (77) - 150 (126)	112%	SPK: 20

Raw Data: **PD087070.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	12/06/24
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	12/06/24
Client Sample ID:	PIBLK-PD087070.D	SDG No.:	P5093
Lab Sample ID:	I.BLK-PD087070.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087070.D	1		12/06/24	pd120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Quantitation Report (QT Reviewed)

Sample Results: **PD087070.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:25:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA Tetrachlo...	3.557	2.884	42873519	255.9E6	21.439	22.359
28)	SA Decachlor...	9.086	8.086	66333885	298.1E6	20.853	21.393
	Target Compounds						

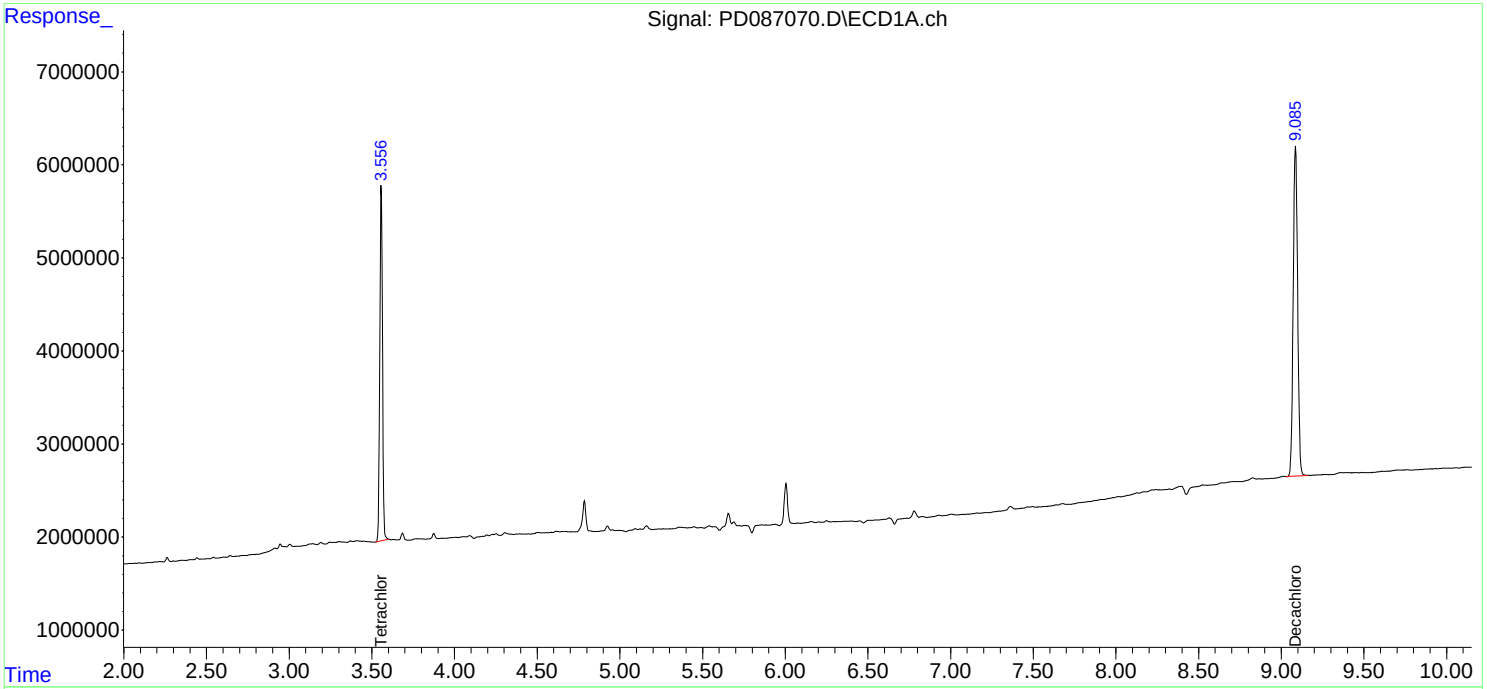
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

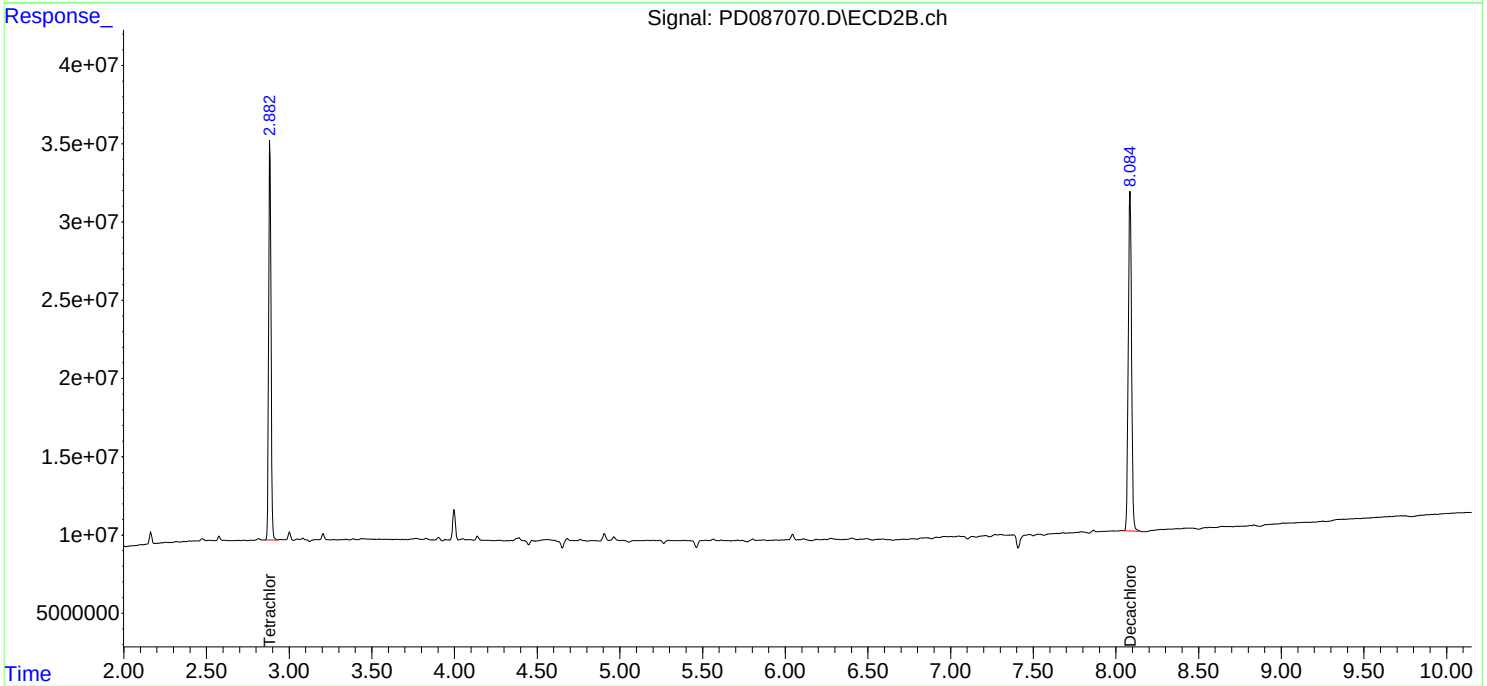
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087070.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 17:57
Operator : AR\AJ
Sample : I.BLK
Misc :
ALS Vial : 2 Sample Multiplier: 1

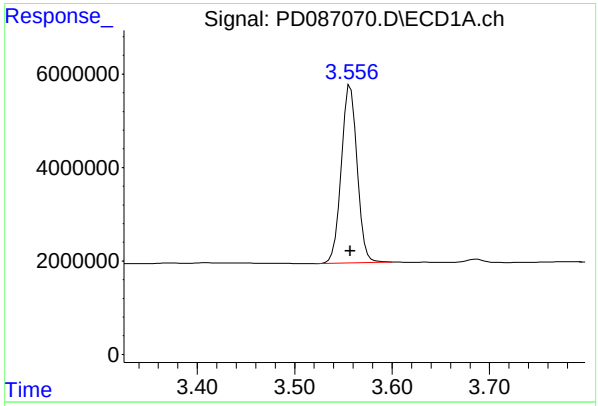
Instrument :
ECD_D
ClientSampleId :
I.BLK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:25:41 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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



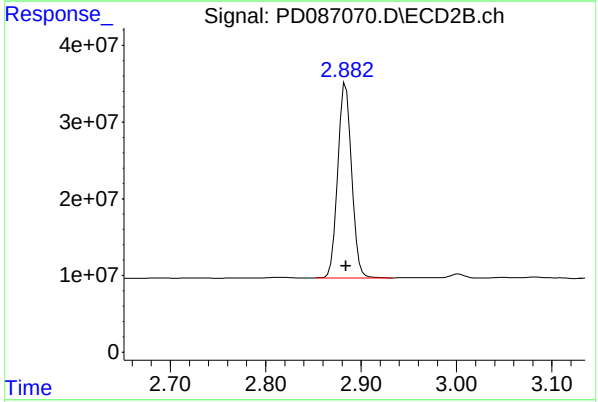




#1 Tetrachloro-m-xylene

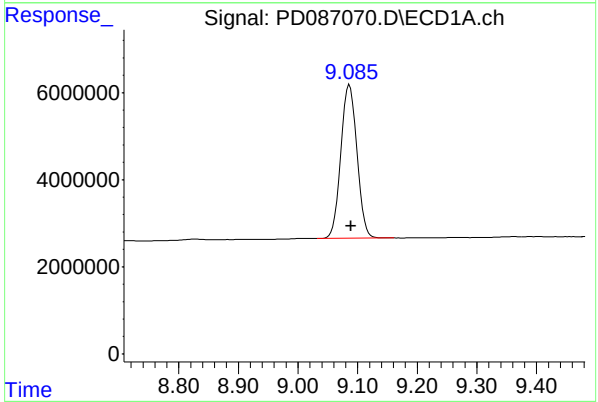
R.T.: 3.557 min
Delta R.T.: 0.000 min
Response: 42873519
Conc: 21.44 ng/ml

Instrument :
ECD_D
ClientSampleId :
I.BLK



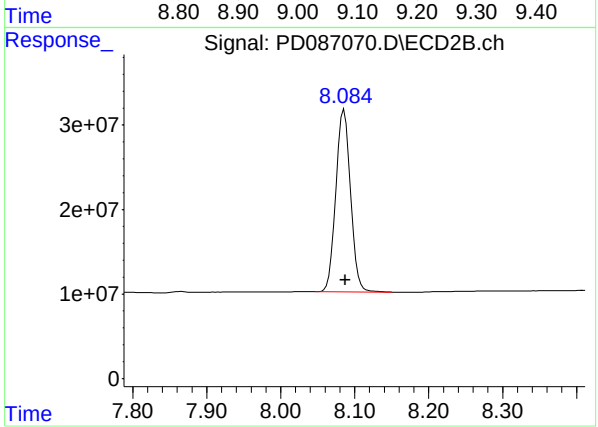
#1 Tetrachloro-m-xylene

R.T.: 2.884 min
Delta R.T.: 0.000 min
Response: 255930766
Conc: 22.36 ng/ml



#28 Decachlorobiphenyl

R.T.: 9.086 min
Delta R.T.: -0.002 min
Response: 66333885
Conc: 20.85 ng/ml



#28 Decachlorobiphenyl

R.T.: 8.086 min
Delta R.T.: -0.002 min
Response: 298062990
Conc: 21.39 ng/ml

Raw Data: **PD087059.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BS	SDG No.:	P5093
Lab Sample ID:	PB165431BS	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087059.D	1	12/06/24 08:32	12/06/24 15:24	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.51		0.0061	0.050	ug/L
319-85-7	beta-BHC	0.51		0.014	0.050	ug/L
319-86-8	delta-BHC	0.49		0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.50		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.51		0.0054	0.050	ug/L
309-00-2	Aldrin	0.49		0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.49		0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.50		0.0050	0.050	ug/L
60-57-1	Dieldrin	0.50		0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.50		0.0045	0.050	ug/L
72-20-8	Endrin	0.48		0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.50		0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.51		0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.48		0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.48		0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.47		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.48		0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.47		0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.50		0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.51		0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.7		30 (43) - 150 (140)	99%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.4		30 (77) - 150 (126)	102%	SPK: 20

Raw Data: **PD087059.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BS	SDG No.:	P5093
Lab Sample ID:	PB165431BS	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087059.D	1	12/06/24 08:32	12/06/24 15:24	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Quantitation Report (QT Reviewed)

Sample Results: **PD087059.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:24
Operator : AR\AJ
Sample : PB165431BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB165431BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1)	SA	Tetrachlo...	3.557	2.884	37419173	234.1E6	18.712	20.453
28)	SA	Decachlor...	9.088	8.087	60492468	274.6E6	19.017	19.711
		Target Compounds						
2)	A	alpha-BHC	4.007	3.398	205.5E6	898.5E6	51.073	50.989
3)	MA	gamma-BHC...	4.338	3.734	197.6E6	837.0E6	49.555	49.834
4)	MA	Heptachlor	4.939	4.090	199.9E6	820.5E6	50.906	50.477
5)	MB	Aldrin	5.281	4.376	197.1E6	814.4E6	48.357	48.718
6)	B	beta-BHC	4.522	4.030	77489598	366.6E6	49.131	51.192
7)	B	delta-BHC	4.770	4.267	195.9E6	826.5E6	48.063	48.612
8)	B	Heptachlo...	5.700	4.881	176.2E6	746.8E6	48.769	49.181
9)	A	Endosulfan I	6.084	5.256	166.8E6	707.1E6	49.703	49.807
10)	B	gamma-Chl...	5.955	5.134	175.8E6	790.2E6	49.759	50.798
11)	B	alpha-Chl...	6.037	5.199	177.7E6	765.4E6	49.739	50.082
12)	B	4,4'-DDE	6.205	5.385	161.9E6	754.9E6	49.747	50.075
13)	MA	Dieldrin	6.357	5.522	179.4E6	777.0E6	49.648	49.900
14)	MA	Endrin	6.584	5.798	141.0E6	674.8E6	46.598	48.238
15)	B	Endosulfa...	6.795	6.090	150.3E6	679.8E6	50.289	49.388
16)	A	4,4'-DDD	6.714	5.940	128.3E6	636.6E6	49.365	50.649
17)	MA	4,4'-DDT	7.031	6.194	133.7E6	645.0E6	47.320	48.370
18)	B	Endrin al...	6.924	6.268	115.8E6	525.2E6	47.354	47.341
19)	B	Endosulfa...	7.159	6.492	140.7E6	653.4E6	48.356	48.290
20)	A	Methoxychlor	7.503	6.766	72607915	338.1E6	45.400	47.139
21)	B	Endrin ke...	7.640	7.001	156.7E6	720.4E6	48.274	47.795
22)		Mirex	8.125	7.198	108.4E6	531.5E6	43.448	43.101

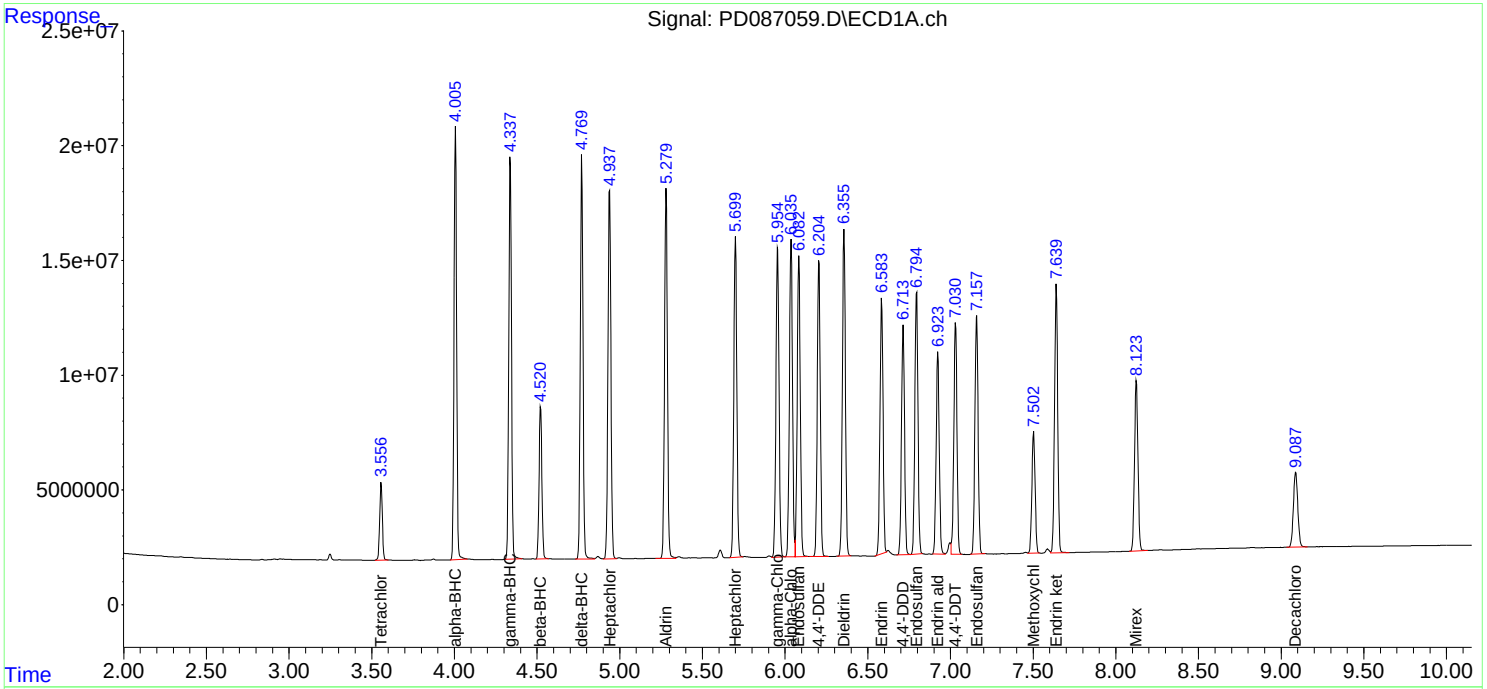
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

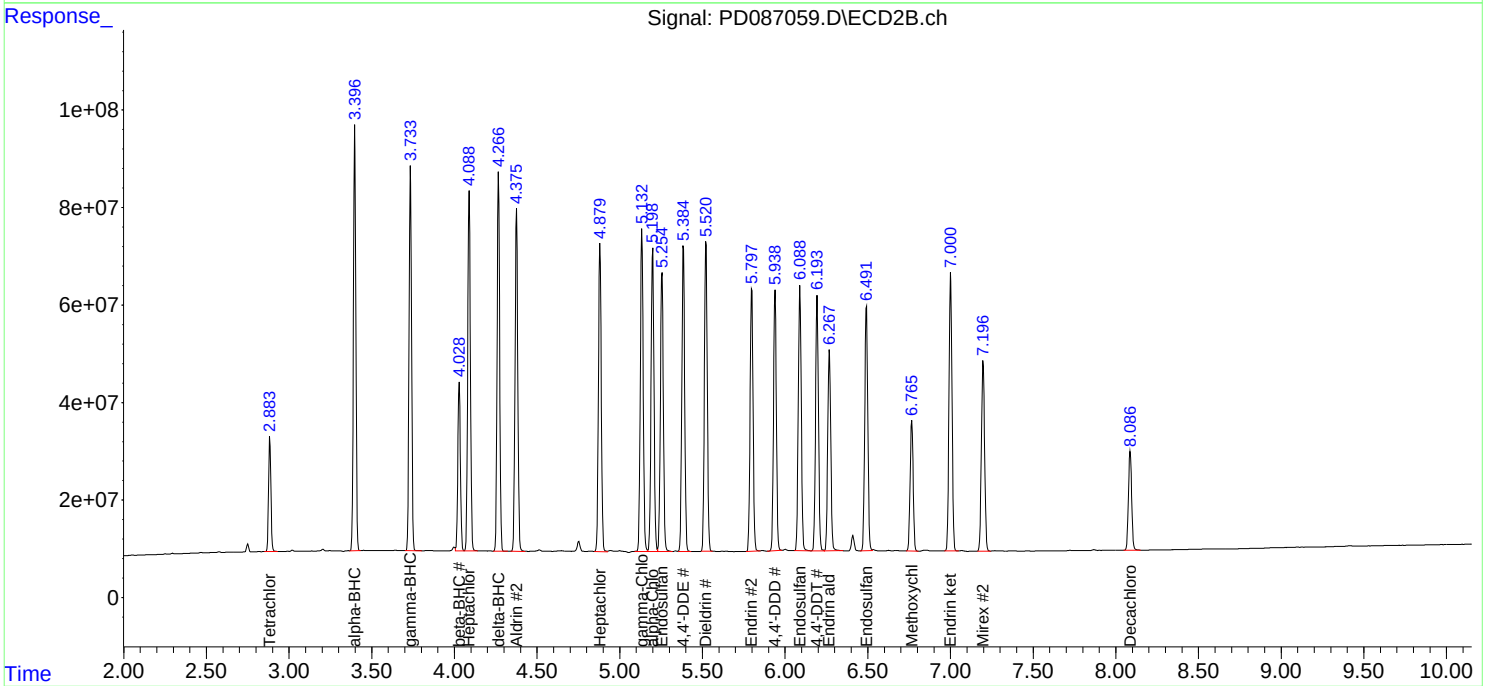
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087059.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:24
Operator : AR\AJ
Sample : PB165431BS
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB165431BS

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:34 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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





Raw Data: **PD087060.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BSD	SDG No.:	P5093
Lab Sample ID:	PB165431BSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087060.D	1	12/06/24 08:32	12/06/24 15:38	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.51		0.0061	0.050	ug/L
319-85-7	beta-BHC	0.51		0.014	0.050	ug/L
319-86-8	delta-BHC	0.48		0.015	0.050	ug/L
58-89-9	gamma-BHC (Lindane)	0.49		0.0049	0.050	ug/L
76-44-8	Heptachlor	0.50		0.0054	0.050	ug/L
309-00-2	Aldrin	0.48		0.0044	0.050	ug/L
1024-57-3	Heptachlor epoxide	0.49		0.0090	0.050	ug/L
959-98-8	Endosulfan I	0.49		0.0050	0.050	ug/L
60-57-1	Dieldrin	0.50		0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.50		0.0045	0.050	ug/L
72-20-8	Endrin	0.48		0.0043	0.050	ug/L
33213-65-9	Endosulfan II	0.50		0.0075	0.050	ug/L
72-54-8	4,4-DDD	0.50		0.0092	0.050	ug/L
1031-07-8	Endosulfan Sulfate	0.48		0.0035	0.050	ug/L
50-29-3	4,4-DDT	0.49		0.0044	0.050	ug/L
72-43-5	Methoxychlor	0.47		0.011	0.050	ug/L
53494-70-5	Endrin ketone	0.48		0.0097	0.050	ug/L
7421-93-4	Endrin aldehyde	0.47		0.0099	0.050	ug/L
5103-71-9	alpha-Chlordane	0.50		0.0060	0.050	ug/L
5103-74-2	gamma-Chlordane	0.50		0.0060	0.050	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.6		30 (43) - 150 (140)	98%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		30 (77) - 150 (126)	101%	SPK: 20

Raw Data: **PD087060.D**

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

Report of Analysis

Client:	R3M Engineering, Inc.	Date Collected:	
Project:	MC054.36 23-8-1 LM - Landing Lane New Brunswick	Date Received:	
Client Sample ID:	PB165431BSD	SDG No.:	P5093
Lab Sample ID:	PB165431BSD	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PD087060.D	1	12/06/24 08:32	12/06/24 15:38	PB165431

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Quantitation Report (QT Reviewed)

Sample Results: **PD087060.D**

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:38
Operator : AR\AJ
Sample : PB165431BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB165431BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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						
1) SA	Tetrachlo...	3.557	2.884	37082252	231.7E6	18.543	20.245
28) SA	Decachlor...	9.087	8.087	60122078	273.2E6	18.900	19.609
	Target Compounds						
2) A	alpha-BHC	4.007	3.398	203.5E6	889.1E6	50.565	50.455
3) MA	gamma-BHC...	4.338	3.734	195.3E6	828.1E6	48.967	49.307
4) MA	Heptachlor	4.939	4.090	198.0E6	814.9E6	50.439	50.131
5) MB	Aldrin	5.281	4.376	194.9E6	807.3E6	47.811	48.288
6) B	beta-BHC	4.522	4.030	76667170	363.7E6	48.609	50.780
7) B	delta-BHC	4.771	4.267	193.3E6	816.8E6	47.429	48.040
8) B	Heptachlo...	5.700	4.881	174.6E6	736.8E6	48.322	48.527
9) A	Endosulfan I	6.084	5.256	165.5E6	701.1E6	49.321	49.388
10) B	gamma-Chl...	5.955	5.134	175.8E6	783.7E6	49.766	50.381
11) B	alpha-Chl...	6.037	5.199	176.2E6	757.4E6	49.316	49.561
12) B	4,4'-DDE	6.205	5.385	160.4E6	748.9E6	49.298	49.680
13) MA	Dieldrin	6.357	5.522	177.4E6	770.9E6	49.095	49.504
14) MA	Endrin	6.584	5.799	140.5E6	669.3E6	46.438	47.844
15) B	Endosulfa...	6.795	6.090	149.2E6	674.0E6	49.903	48.968
16) A	4,4'-DDD	6.715	5.940	127.6E6	630.9E6	49.093	50.195
17) MA	4,4'-DDT	7.031	6.195	138.1E6	641.4E6	48.889	48.106
18) B	Endrin al...	6.924	6.269	114.9E6	520.6E6	46.988	46.924
19) B	Endosulfa...	7.158	6.492	139.8E6	650.1E6	48.043	48.050
20) A	Methoxychlor	7.503	6.766	72673875	337.5E6	45.441	47.046
21) B	Endrin ke...	7.640	7.002	155.8E6	718.1E6	47.996	47.642
22)	Mirex	8.124	7.198	108.0E6	531.0E6	43.284	43.066

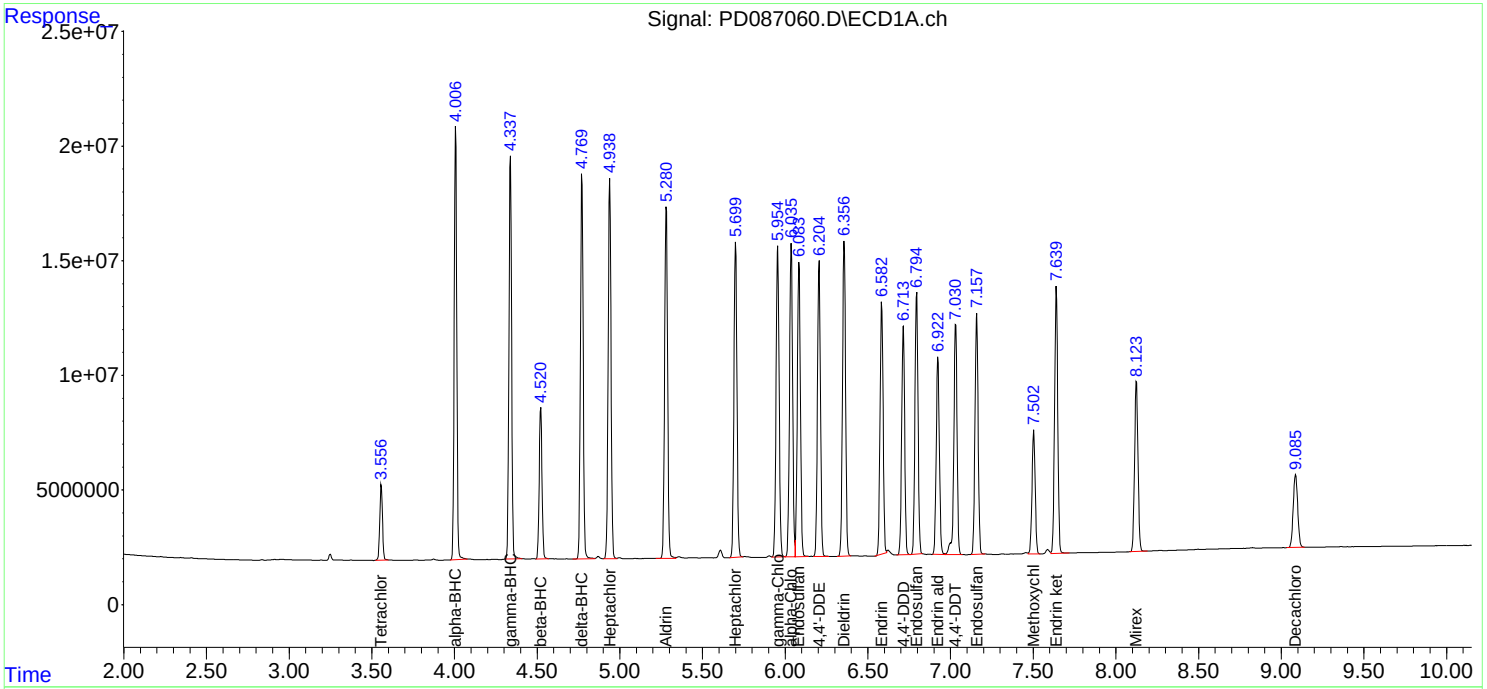
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

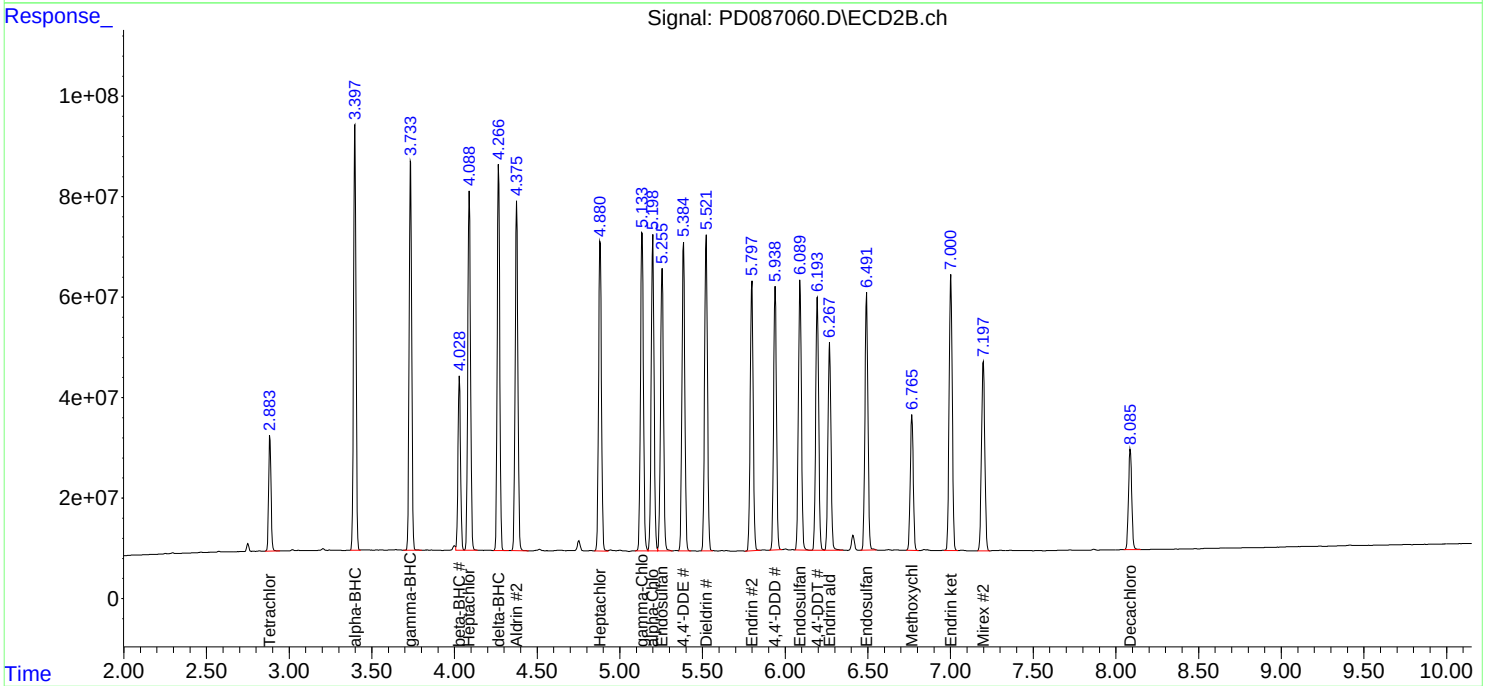
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_D\Data\PD120624\
Data File : PD087060.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 06 Dec 2024 15:38
Operator : AR\AJ
Sample : PB165431BSD
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
ECD_D
ClientSampleId :
PB165431BSD

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Dec 06 22:22:50 2024
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_D\Method\PD112724.M
Quant Title : GC Extractables
QLast Update : Wed Nov 27 15:47:26 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

Manual Integration Report

Sequence:	PD112724	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PEM	PD086945.D	4,4"-DDD	yogesh	12/2/2024 8:43:24 AM	Ankita	12/2/2024 9:34:52	Peak Integrated by Software
PEM	PD086945.D	4,4"-DDD #2	yogesh	12/2/2024 8:43:24 AM	Ankita	12/2/2024 9:34:52	Peak Integrated by Software
PSTDICC005	PD086951.D	4,4"-DDD #2	yogesh	12/2/2024 8:43:26 AM	Ankita	12/2/2024 9:34:53	Peak Integrated by Software
PSTDICC005	PD086951.D	Endrin #2	yogesh	12/2/2024 8:43:26 AM	Ankita	12/2/2024 9:34:53	Peak Integrated by Software
PCHLORICV500	PD086963.D	Chlordane-3 #2	yogesh	12/2/2024 8:43:28 AM	Ankita	12/2/2024 9:34:55	Peak Integrated by Software
PCHLORICV500	PD086963.D	Chlordane-5	yogesh	12/2/2024 8:43:28 AM	Ankita	12/2/2024 9:34:55	Peak Integrated by Software
PEM	PD086966.D	4,4"-DDD	yogesh	12/2/2024 8:43:29 AM	Ankita	12/2/2024 9:34:57	Peak Integrated by Software
PEM	PD086966.D	4,4"-DDD #2	yogesh	12/2/2024 8:43:29 AM	Ankita	12/2/2024 9:34:57	Peak Integrated by Software
PSTDCCC050	PD086983.D	4,4"-DDE	yogesh	12/2/2024 12:08:19 PM	Ankita	12/2/2024 12:18:12	Peak Integrated by Software
PSTDCCC050	PD086983.D	4,4"-DDE #2	yogesh	12/2/2024 12:08:19 PM	Ankita	12/2/2024 12:18:12	Peak Integrated by Software
PSTDCCC050	PD086983.D	4,4"-DDT	yogesh	12/2/2024 12:08:19 PM	Ankita	12/2/2024 12:18:12	Peak Integrated by Software

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Manual Integration Report

Sequence:	pd120624	Instrument	ECD_d

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PSTDCCC050	PD087071.D	4,4"-DDE #2	Abdul	12/9/2024 12:43:01 PM			Peak Integrated by Software

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD112724

Review By	yogesh	Review On	12/2/2024 8:44:00 AM		
Supervise By	Ankita	Supervise On	12/2/2024 9:35:29 AM		
SubDirectory	PD112724	HP Acquire Method		HP Processing Method	PD112724

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD086943.D	27 Nov 2024 10:33	AR\AJ	Ok
2	I.BLK	PD086944.D	27 Nov 2024 10:47	AR\AJ	Ok
3	PEM	PD086945.D	27 Nov 2024 11:01	AR\AJ	Ok,M
4	RESCHK	PD086946.D	27 Nov 2024 11:15	AR\AJ	Ok
5	PSTDICC100	PD086947.D	27 Nov 2024 11:29	AR\AJ	Ok
6	PSTDICC075	PD086948.D	27 Nov 2024 11:42	AR\AJ	Ok
7	PSTDICC050	PD086949.D	27 Nov 2024 11:56	AR\AJ	Ok
8	PSTDICC025	PD086950.D	27 Nov 2024 12:10	AR\AJ	Ok
9	PSTDICC005	PD086951.D	27 Nov 2024 12:24	AR\AJ	Ok,M
10	PCHLORICC1000	PD086952.D	27 Nov 2024 12:38	AR\AJ	Ok
11	PCHLORICC750	PD086953.D	27 Nov 2024 12:52	AR\AJ	Ok
12	PCHLORICC500	PD086954.D	27 Nov 2024 13:06	AR\AJ	Ok
13	PCHLORICC250	PD086955.D	27 Nov 2024 13:20	AR\AJ	Ok
14	PCHLORICC050	PD086956.D	27 Nov 2024 13:34	AR\AJ	Ok
15	PTOXICC1000	PD086957.D	27 Nov 2024 13:49	AR\AJ	Ok
16	PTOXICC750	PD086958.D	27 Nov 2024 14:03	AR\AJ	Ok
17	PTOXICC500	PD086959.D	27 Nov 2024 14:16	AR\AJ	Ok
18	PTOXICC250	PD086960.D	27 Nov 2024 14:31	AR\AJ	Ok
19	PTOXICC100	PD086961.D	27 Nov 2024 14:45	AR\AJ	Ok
20	PSTDICV050	PD086962.D	27 Nov 2024 14:58	AR\AJ	Ok
21	PCHLORICV500	PD086963.D	27 Nov 2024 15:12	AR\AJ	Ok,M

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD112724

Review By	yogesh	Review On	12/2/2024 8:44:00 AM		
Supervise By	Ankita	Supervise On	12/2/2024 9:35:29 AM		
SubDirectory	PD112724	HP Acquire Method		HP Processing Method	PD112724

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PTOXICV500	PD086964.D	27 Nov 2024 15:26	AR\AJ	Ok
23	I.BLK	PD086965.D	27 Nov 2024 15:41	AR\AJ	Ok
24	PEM	PD086966.D	27 Nov 2024 15:55	AR\AJ	Ok,M
25	PSTDCCC050	PD086967.D	27 Nov 2024 16:09	AR\AJ	Ok
26	PB165293BL	PD086968.D	27 Nov 2024 16:23	AR\AJ	Ok
27	PB165293BS	PD086969.D	27 Nov 2024 16:37	AR\AJ	Ok,M
28	P5005-01	PD086970.D	27 Nov 2024 16:51	AR\AJ	Ok,M
29	P5005-01MS	PD086971.D	27 Nov 2024 17:05	AR\AJ	Ok,M
30	P5005-01MSD	PD086972.D	27 Nov 2024 17:19	AR\AJ	Ok,M
31	P5019-01	PD086973.D	27 Nov 2024 17:33	AR\AJ	Ok,M
32	PB165254BL	PD086974.D	27 Nov 2024 17:47	AR\AJ	Ok
33	P5000-01	PD086975.D	27 Nov 2024 18:01	AR\AJ	Ok,M
34	PB165274BL	PD086976.D	27 Nov 2024 18:15	AR\AJ	Ok
35	PB165274BS	PD086977.D	27 Nov 2024 18:28	AR\AJ	Ok,M
36	PB165252TB	PD086978.D	27 Nov 2024 18:42	AR\AJ	Ok
37	P4995-02	PD086979.D	27 Nov 2024 18:56	AR\AJ	Ok
38	P4995-02MS	PD086980.D	27 Nov 2024 19:11	AR\AJ	Ok,M
39	P4995-02MSD	PD086981.D	27 Nov 2024 19:25	AR\AJ	Ok,M
40	I.BLK	PD086982.D	27 Nov 2024 19:39	AR\AJ	Ok
41	PSTDCCC050	PD086983.D	27 Nov 2024 19:53	AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD120624

Review By	Abdul	Review On	12/9/2024 10:08:45 AM		
Supervise By	Ankita	Supervise On	12/9/2024 11:04:50 AM		
SubDirectory	PD120624	HP Acquire Method		HP Processing Method	PD112724 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PD087045.D	06 Dec 2024 10:15	AR\AJ	Ok
2	I.BLK	PD087046.D	06 Dec 2024 10:29	AR\AJ	Ok
3	PEM	PD087047.D	06 Dec 2024 10:43	AR\AJ	Ok
4	PSTDCCC050	PD087048.D	06 Dec 2024 10:57	AR\AJ	Ok
5	PB165422BL	PD087049.D	06 Dec 2024 13:04	AR\AJ	Ok
6	PB165422BS	PD087050.D	06 Dec 2024 13:18	AR\AJ	Ok
7	P5133-01	PD087051.D	06 Dec 2024 13:32	AR\AJ	Ok,M
8	P5136-01	PD087052.D	06 Dec 2024 13:46	AR\AJ	Ok
9	P5137-01	PD087053.D	06 Dec 2024 14:00	AR\AJ	Ok
10	P5137-01MS	PD087054.D	06 Dec 2024 14:14	AR\AJ	Ok
11	P5137-01MSD	PD087055.D	06 Dec 2024 14:28	AR\AJ	Ok
12	I.BLK	PD087056.D	06 Dec 2024 14:42	AR\AJ	Ok
13	PSTDCCC050	PD087057.D	06 Dec 2024 14:56	AR\AJ	Ok
14	PB165431BL	PD087058.D	06 Dec 2024 15:10	AR\AJ	Ok
15	PB165431BS	PD087059.D	06 Dec 2024 15:24	AR\AJ	Ok
16	PB165431BSD	PD087060.D	06 Dec 2024 15:38	AR\AJ	Ok
17	P5093-01	PD087061.D	06 Dec 2024 15:52	AR\AJ	Ok
18	P5093-02	PD087062.D	06 Dec 2024 16:06	AR\AJ	Ok
19	P5145-01	PD087063.D	06 Dec 2024 16:20	AR\AJ	Not Ok
20	PB165454BL	PD087064.D	06 Dec 2024 16:34	AR\AJ	Ok
21	PB165454BS	PD087065.D	06 Dec 2024 16:48	AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD120624

Review By	Abdul	Review On	12/9/2024 10:08:45 AM		
Supervise By	Ankita	Supervise On	12/9/2024 11:04:50 AM		
SubDirectory	PD120624	HP Acquire Method		HP Processing Method	PD112724 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB165390TB	PD087066.D	06 Dec 2024 17:02	AR\AJ	Ok
23	P5117-02	PD087067.D	06 Dec 2024 17:15	AR\AJ	Ok
24	P5117-02MS	PD087068.D	06 Dec 2024 17:29	AR\AJ	Ok
25	P5117-02MSD	PD087069.D	06 Dec 2024 17:43	AR\AJ	Ok
26	I.BLK	PD087070.D	06 Dec 2024 17:57	AR\AJ	Ok
27	PSTDCCC050	PD087071.D	06 Dec 2024 18:11	AR\AJ	Ok,NS

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD112724

Review By	yogesh	Review On	12/2/2024 8:44:00 AM		
Supervise By	Ankita	Supervise On	12/2/2024 9:35:29 AM		
SubDirectory	PD112724	HP Acquire Method		HP Processing Method	PD112724

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD086943.D	27 Nov 2024 10:33		AR\AJ	Ok
2	I.BLK	I.BLK	PD086944.D	27 Nov 2024 10:47		AR\AJ	Ok
3	PEM	PEM	PD086945.D	27 Nov 2024 11:01		AR\AJ	Ok,M
4	RESCHK	RESCHK	PD086946.D	27 Nov 2024 11:15		AR\AJ	Ok
5	PSTDICC100	PSTDICC100	PD086947.D	27 Nov 2024 11:29		AR\AJ	Ok
6	PSTDICC075	PSTDICC075	PD086948.D	27 Nov 2024 11:42		AR\AJ	Ok
7	PSTDICC050	PSTDICC050	PD086949.D	27 Nov 2024 11:56		AR\AJ	Ok
8	PSTDICC025	PSTDICC025	PD086950.D	27 Nov 2024 12:10		AR\AJ	Ok
9	PSTDICC005	PSTDICC005	PD086951.D	27 Nov 2024 12:24		AR\AJ	Ok,M
10	PCHLORICC1000	PCHLORICC1000	PD086952.D	27 Nov 2024 12:38		AR\AJ	Ok
11	PCHLORICC750	PCHLORICC750	PD086953.D	27 Nov 2024 12:52		AR\AJ	Ok
12	PCHLORICC500	PCHLORICC500	PD086954.D	27 Nov 2024 13:06		AR\AJ	Ok
13	PCHLORICC250	PCHLORICC250	PD086955.D	27 Nov 2024 13:20		AR\AJ	Ok
14	PCHLORICC050	PCHLORICC050	PD086956.D	27 Nov 2024 13:34		AR\AJ	Ok
15	PTOXICC1000	PTOXICC1000	PD086957.D	27 Nov 2024 13:49		AR\AJ	Ok
16	PTOXICC750	PTOXICC750	PD086958.D	27 Nov 2024 14:03		AR\AJ	Ok
17	PTOXICC500	PTOXICC500	PD086959.D	27 Nov 2024 14:16		AR\AJ	Ok
18	PTOXICC250	PTOXICC250	PD086960.D	27 Nov 2024 14:31		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD112724

Review By	yogesh	Review On	12/2/2024 8:44:00 AM		
Supervise By	Ankita	Supervise On	12/2/2024 9:35:29 AM		
SubDirectory	PD112724	HP Acquire Method		HP Processing Method	PD112724

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	PTOXICC100	PTOXICC100	PD086961.D	27 Nov 2024 14:45		AR\AJ	Ok
20	PSTDICV050	ICVPD112724	PD086962.D	27 Nov 2024 14:58		AR\AJ	Ok
21	PCHLORICV500	ICVPD112724	PD086963.D	27 Nov 2024 15:12		AR\AJ	Ok,M
22	PTOXICV500	ICVPD112724	PD086964.D	27 Nov 2024 15:26		AR\AJ	Ok
23	I.BLK	I.BLK	PD086965.D	27 Nov 2024 15:41		AR\AJ	Ok
24	PEM	PEM	PD086966.D	27 Nov 2024 15:55		AR\AJ	Ok,M
25	PSTDCCC050	PSTDCCC050	PD086967.D	27 Nov 2024 16:09		AR\AJ	Ok
26	PB165293BL	PB165293BL	PD086968.D	27 Nov 2024 16:23		AR\AJ	Ok
27	PB165293BS	PB165293BS	PD086969.D	27 Nov 2024 16:37	Recovery Fail in delta-BHC-I	AR\AJ	Ok,M
28	P5005-01	STOCK-PILE	PD086970.D	27 Nov 2024 16:51		AR\AJ	Ok,M
29	P5005-01MS	STOCK-PILEMS	PD086971.D	27 Nov 2024 17:05		AR\AJ	Ok,M
30	P5005-01MSD	STOCK-PILEMSD	PD086972.D	27 Nov 2024 17:19		AR\AJ	Ok,M
31	P5019-01	EO-02-11262024	PD086973.D	27 Nov 2024 17:33		AR\AJ	Ok,M
32	PB165254BL	PB165254BL	PD086974.D	27 Nov 2024 17:47		AR\AJ	Ok
33	P5000-01	MH-745	PD086975.D	27 Nov 2024 18:01		AR\AJ	Ok,M
34	PB165274BL	PB165274BL	PD086976.D	27 Nov 2024 18:15		AR\AJ	Ok
35	PB165274BS	PB165274BS	PD086977.D	27 Nov 2024 18:28		AR\AJ	Ok,M
36	PB165252TB	PB165252TB	PD086978.D	27 Nov 2024 18:42		AR\AJ	Ok
37	P4995-02	001	PD086979.D	27 Nov 2024 18:56		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD112724

Review By	yogesh	Review On	12/2/2024 8:44:00 AM		
Supervise By	Ankita	Supervise On	12/2/2024 9:35:29 AM		
SubDirectory	PD112724	HP Acquire Method		HP Processing Method	PD112724

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4995-02MS	001MS	PD086980.D	27 Nov 2024 19:11		AR\AJ	Ok,M
39	P4995-02MSD	001MSD	PD086981.D	27 Nov 2024 19:25		AR\AJ	Ok,M
40	I.BLK	I.BLK	PD086982.D	27 Nov 2024 19:39		AR\AJ	Ok
41	PSTDCCC050	PSTDCCC050	PD086983.D	27 Nov 2024 19:53		AR\AJ	Ok,M

M : Manual Integration

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD120624

Review By	Abdul	Review On	12/9/2024 10:08:45 AM		
Supervise By	Ankita	Supervise On	12/9/2024 11:04:50 AM		
SubDirectory	PD120624	HP Acquire Method		HP Processing Method	PD112724 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PD087045.D	06 Dec 2024 10:15		AR\AJ	Ok
2	I.BLK	I.BLK	PD087046.D	06 Dec 2024 10:29		AR\AJ	Ok
3	PEM	PEM	PD087047.D	06 Dec 2024 10:43		AR\AJ	Ok
4	PSTDCCC050	PSTDCCC050	PD087048.D	06 Dec 2024 10:57		AR\AJ	Ok
5	PB165422BL	PB165422BL	PD087049.D	06 Dec 2024 13:04		AR\AJ	Ok
6	PB165422BS	PB165422BS	PD087050.D	06 Dec 2024 13:18		AR\AJ	Ok
7	P5133-01	MOO-24-00374	PD087051.D	06 Dec 2024 13:32		AR\AJ	Ok,M
8	P5136-01	COMP-1	PD087052.D	06 Dec 2024 13:46		AR\AJ	Ok
9	P5137-01	LAW-OILY-STONES	PD087053.D	06 Dec 2024 14:00		AR\AJ	Ok
10	P5137-01MS	LAW-OILY-STONESMS	PD087054.D	06 Dec 2024 14:14		AR\AJ	Ok
11	P5137-01MSD	LAW-OILY-STONESMS	PD087055.D	06 Dec 2024 14:28		AR\AJ	Ok
12	I.BLK	I.BLK	PD087056.D	06 Dec 2024 14:42		AR\AJ	Ok
13	PSTDCCC050	PSTDCCC050	PD087057.D	06 Dec 2024 14:56		AR\AJ	Ok
14	PB165431BL	PB165431BL	PD087058.D	06 Dec 2024 15:10		AR\AJ	Ok
15	PB165431BS	PB165431BS	PD087059.D	06 Dec 2024 15:24		AR\AJ	Ok
16	PB165431BSD	PB165431BSD	PD087060.D	06 Dec 2024 15:38		AR\AJ	Ok
17	P5093-01	LL-001	PD087061.D	06 Dec 2024 15:52		AR\AJ	Ok
18	P5093-02	LL-001-FB-12-4-24	PD087062.D	06 Dec 2024 16:06		AR\AJ	Ok

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Instrument ID: ECD_D

Daily Analysis Runlog For Sequence/QCBatch ID # PD120624

Review By	Abdul	Review On	12/9/2024 10:08:45 AM		
Supervise By	Ankita	Supervise On	12/9/2024 11:04:50 AM		
SubDirectory	PD120624	HP Acquire Method		HP Processing Method	PD112724 8081

STD. NAME	STD REF.#
Tune/Reschk	PP23793,PP23517
Initial Calibration Stds	PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,PP23683
CCC	PP23686,PP23690,PP23695
Internal Standard/PEM	
ICV/I.BLK	PP23687,PP23693,PP23698
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P5145-01	286085	PD087063.D	06 Dec 2024 16:20	surrogates fail, need cleanup	AR\AJ	Not Ok
20	PB165454BL	PB165454BL	PD087064.D	06 Dec 2024 16:34		AR\AJ	Ok
21	PB165454BS	PB165454BS	PD087065.D	06 Dec 2024 16:48		AR\AJ	Ok
22	PB165390TB	PB165390TB	PD087066.D	06 Dec 2024 17:02		AR\AJ	Ok
23	P5117-02	TAPIAL2-IDW-SOIL-12(	PD087067.D	06 Dec 2024 17:15		AR\AJ	Ok
24	P5117-02MS	TAPIAL2-IDW-SOIL-12(	PD087068.D	06 Dec 2024 17:29		AR\AJ	Ok
25	P5117-02MSD	TAPIAL2-IDW-SOIL-12(	PD087069.D	06 Dec 2024 17:43		AR\AJ	Ok
26	I.BLK	I.BLK	PD087070.D	06 Dec 2024 17:57		AR\AJ	Ok
27	PSTDCCC050	PSTDCCC050	PD087071.D	06 Dec 2024 18:11		AR\AJ	Ok,NS

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165431

SOP ID:	M3510C,3580A-Extraction Pesticide-16				
Clean Up SOP #:	Florisil			**Extraction Start Date :**	12/06/2024
Matrix :	Water			**Extraction Start Time :**	08:32
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	12/06/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,6,7	**Supervisor By :**	rajesh

Extraction Method: ☑ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	500 PPB	PP23928
Surrogate	1.0ML	200 PPB	PP23985
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
Methylene Chloride	N/A	E3845
Baked Na2SO4	N/A	EP2570
Hexane	N/A	E3826
N/A	N/A	N/A
Florisil	N/A	E3806
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

40 ML Vial lot# 03-40 BTS721.

KD Bath ID:	Water bath -01	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/6/24	RP (Ext. Lab)	AJ (TEST PCA Lab
13:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165431

Analytical Method: M3510C,3580A-Extraction Pesticide-16 **Concentration Date:** 12/06/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165431BL	PBLK431	Pesticide-TCL	1000	6	RUPESH	ritesh	10			SEP-10
PB165431BS	PLCS431	Pesticide-TCL	1000	6	RUPESH	ritesh	10			11
PB165431BSD	PLCSD431	Pesticide-TCL	1000	6	RUPESH	ritesh	10			12
P5093-01	LL-001	Pesticide-TCL	1000	6	RUPESH	ritesh	10	I		13
P5093-02	LL-001-FB-12-4-24	Pesticide-TCL	1000	6	RUPESH	ritesh	10	I		14
P5145-01	286085	Pesticide-TCL	1000	6	RUPESH	ritesh	10	O		15

* **Extracts relinquished on the same date as received.**

12/6/24

16/431
8:32

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P5093P **WorkList ID :** 186045 **Department :** Extraction **Date :** 12-06-2024 08:27:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P5093-01	LL-001	Water	Pesticide-TCL	Cool 4 deg C	RTHR01	L41	12/04/2024	8081B
P5093-02	LL-001-FB-12-4-24	Water	Pesticide-TCL	Cool 4 deg C	RTHR01	L41	12/04/2024	8081B
P5145-01	286085	Water	Pesticide-TCL	Cool 4 deg C	PSEG03	L51	12/05/2024	8081B

Date/Time 12/6/24 8:30
Raw Sample Received by: RJ (Ext Tech)
Raw Sample Relinquished by: JD(SM)

Date/Time 12/6/24 8:55
Raw Sample Received by: JD(SM)
Raw Sample Relinquished by: RJ (Ext Tech)

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Prep Standard - Chemical Standard Summary

Order ID : P5093

Test : Pesticide-TCL

Prepbatch ID : PB165431,

Sequence ID/Qc Batch ID: pd120624,

Standard ID :
EP2570,PP23517,PP23673,PP23674,PP23675,PP23676,PP23677,PP23678,PP23679,PP23680,PP23681,PP23682,P
P23683,PP23686,PP23687,PP23690,PP23693,PP23695,PP23698,PP23733,PP23793,PP23928,PP23985,

Chemical ID :
E3551,E3770,E3792,E3805,E3806,E3818,E3826,E3827,E3845,P11146,P11896,P13036,P13039,P13244,P13349,P133
50,P13352,P13359,P13402,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2570	12/02/2024	01/03/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 12/02/2024

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4027	Pesticide resolution Check Mixture 8081	PP23517	07/12/2024	01/12/2025	Abdul Mirza	None	None	Ankita Jodhani 07/16/2024

FROM 1.00000ml of E3770 + 99.00000ml of P13244 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
84	Pest/PCB Surrogate Stock 20 PPM	PP23673	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 1.00000ml of P13349 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3629	20 PPM PEST stock Solution 1st source(RESTEK)	PP23674	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 1.00000ml of P13036 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1472	20 PPM Pest Stock Solution 2nd Source	PP23675	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 1.00000ml of P13039 + 9.00000ml of E3792 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1273	20 PPM Mirex Stock (Primary Source)	PP23676	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3663	20 PPM MIREX Stock STD (Secondary source)	PP23677	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.20000ml of P11146 + 9.80000ml of E3792 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3630	100/100 PPB PEST Working std.1st Source(RESTEK)	PP23678	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23674 + 0.50000ml of PP23676 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
80	100/100 PPB Pesticide Working Solution 2nd Source	PP23679	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 98.50000ml of E3792 + 0.50000ml of PP23673 + 0.50000ml of PP23675 + 0.50000ml of PP23677 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
386	1000/100 PPB Chlordane STD (Restek)	PP23680	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3746	1000/100 ppb Chlordane STD-RESTEK 2ND SOURCE	PP23681	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.10000ml of P11896 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
383	1000/100 PPB Toxaphene STD (Restek)	PP23682	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.10000ml of P13359 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3669	1000/100 PPB TOXAPHENE STD 2nd source (RESTEK)	PP23683	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.10000ml of P13402 + 99.40000ml of E3792 + 0.50000ml of PP23673 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3632	50 PPB ICAL PEST STD(RESTEK)	PP23686	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23678 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3988	50 PPB PEST ICV STD(RESTEK)	PP23687	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23679 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
529	CHLOR 500 PPB STD	PP23690	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23680 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
532	CHLOR 500 PPB ICV STD	PP23693	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23681 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
534	TOX 500 PPB STD	PP23695	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23682 = Final Quantity: 1.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3670	TOX 500 PPB ICV std (RESTEK)	PP23698	09/21/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/01/2024

FROM 0.50000ml of E3792 + 0.50000ml of PP23683 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
84	Pest/PCB Surrogate Stock 20 PPM	PP23733	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel 10/03/2024

FROM 1.00000ml of P13350 + 9.00000ml of E3805 = Final Quantity: 10.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
518	Pest/PCB I.BLK 20 PPB	PP23793	10/03/2024	03/30/2025	Ankita Jodhani	None	None	Yogesh Patel 10/03/2024

FROM 99.90000ml of E3805 + 0.10000ml of PP23733 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
79	500 PPB Pesticide Spike Solution	PP23928	10/30/2024	03/11/2025	Abdul Mirza	None	None	Ankita Jodhani 10/30/2024

FROM 95.00000ml of E3818 + 2.50000ml of PP23675 + 2.50000ml of PP23677 = Final Quantity: 100.000 ml

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Pest/Pcb STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
465	200 PPB Pest/PCB Surrogate Spike	PP23985	11/15/2024	05/08/2025	Ankita Jodhani	None	None	Yogesh Patel 11/18/2024

FROM 1.00000ml of P13352 + 999.00000ml of E3827 = Final Quantity: 1000.000 ml

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CHEMICAL RECEIPT LOG BOOK

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	05/09/2025	07/12/2024 / Rajesh	07/02/2024 / Rajesh	E3770

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	03/11/2025	09/12/2024 / Rajesh	09/11/2024 / Rajesh	E3792

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	03/30/2025	09/30/2024 / Rajesh	09/25/2024 / Rajesh	E3805

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Agela Technologies Inc.	FS0006 / Cleanert Florisil cartridge	M06518	03/25/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3806

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	04/23/2025	10/23/2024 / Rajesh	10/09/2024 / Rajesh	E3818

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	24G1962003	05/09/2025	11/09/2024 / Rajesh	11/07/2024 / Rajesh	E3826

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	05/08/2025	11/08/2024 / Rajesh	11/07/2024 / Rajesh	E3827

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)	24H2762011	06/06/2025	12/06/2024 / Rajesh	11/11/2024 / Rajesh	E3845

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	79136 / Mirex, 1000 ug/ml	102821	03/21/2025	09/21/2024 / Abdul	10/29/2021 / Abdul	P11146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32021 / Chlordane Std.	A0181737	03/21/2025	09/21/2024 / Abdul	06/17/2022 / Abdul	P11896

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0200423	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13036

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32291 / Pesticide Mix, CLP method, organochlorine Std AB#1, 200ug/mL, hexane/toluene, 1mL/ampul	A0199099	03/21/2025	09/21/2024 / Abdul	12/26/2023 / Abdul	P13039

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	19161 / 8081 pesticide resolution check mixture	013124	01/12/2025	07/12/2024 / Abdul	02/09/2024 / Abdul	P13244

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	03/21/2025	09/21/2024 / Abdul	04/22/2024 / Abdul	P13349

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	04/03/2025	10/03/2024 / Ankita	04/22/2024 / Abdul	P13350

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32000 / Pesticide Mix, CLP method, Pesticide Surrogate Mix, 200ug/mL, Acetone, 1mL	A0206810	05/15/2025	11/15/2024 / Ankita	04/22/2024 / Abdul	P13352

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203830	03/21/2025	09/21/2024 / Abdul	05/03/2024 / Abdul	P13359

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32005 / Toxaphene Standard	A0203038	03/21/2025	09/21/2024 / Abdul	05/15/2024 / Abdul	P13402

PRODUCTOS QUIMICOS 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_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_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 foreing 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.

RG-02-01, Ed. 3

Recd. by RB on 7/24/23 E3551

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

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 ($(CH_3)_2CO$) (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
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 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 7/21/24

E 3769

Ken Koehnlein
Sr. Manager, Quality Assurance

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

Recd by RP on 09/11/24

E 3792

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24C1862008
Manufactured Date: 2024-01-30
Expiration Date: 2025-04-30
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) – Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.4 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

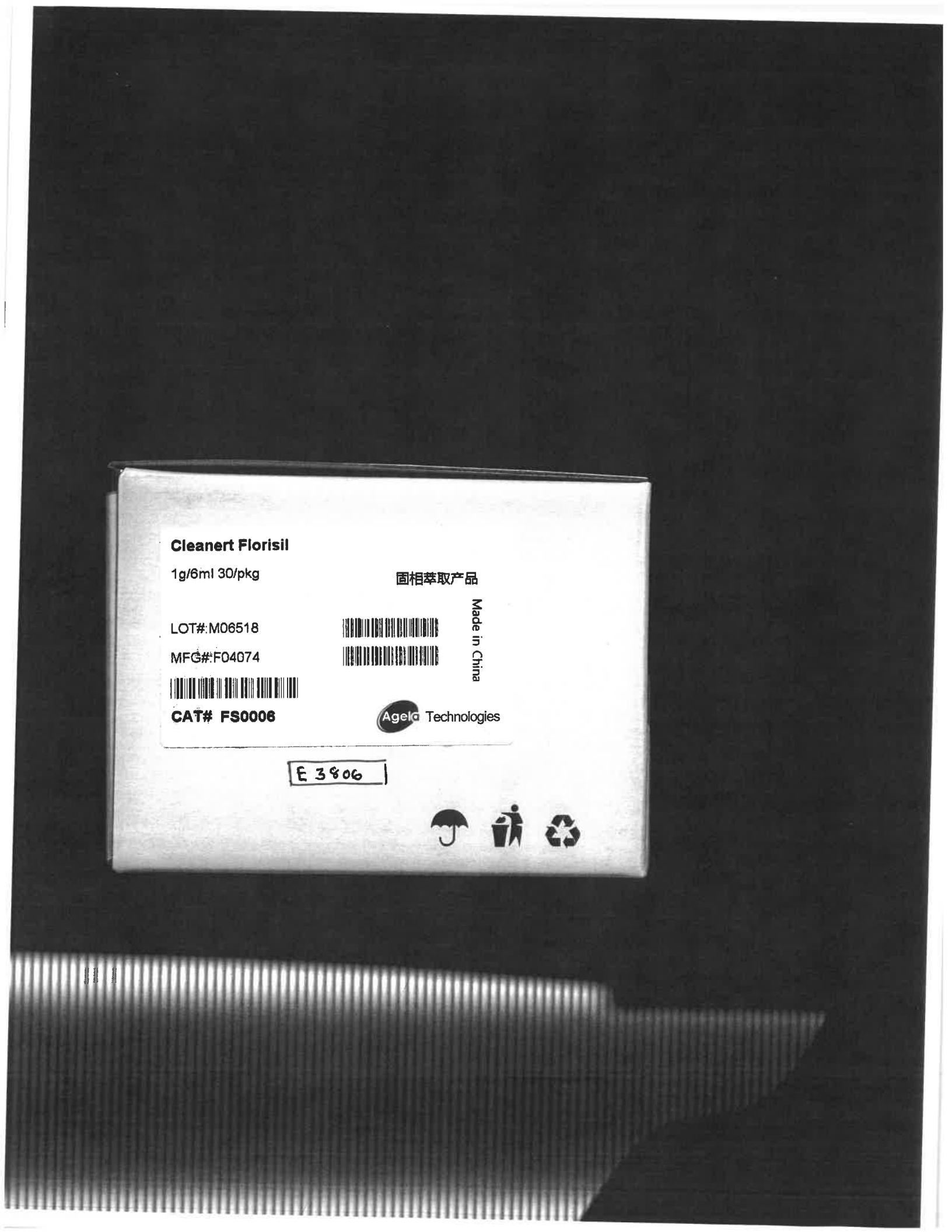
Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 9/25/24

E3805

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production


Cleanert Florisil
1g/6ml 30/pkg
固相萃取产品
LOT#:M06518
MFG#:F04074
CAT# FS0006
Made in China
Agela Technologies
E3806

PO: PO2-329 PRODUCT CODE: SHIP DATE: 9/30/2024

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

Recd. by RP on 10/9/24

E 3818

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

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

avantor™ | J.T.Baker®

Material No.: 9262-03
Batch No.: 24G1962003
Manufactured Date: 2024-05-23
Expiration Date: 2025-08-22
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	1
Assay (Total Saturated C_6 Isomers) (by GC, corrected for water)	≥ 99.5 %	99.7 %
Assay (as n-Hexane) (by GC, corrected for water)	≥ 95 %	98 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Substances Darkened by H_2SO_4	Passes Test	Passes Test
Water (by KF, coulometric)	≤ 0.05 %	< 0.01 %

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

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

E3826

Rec'd by RP on 11/7/24

Jamie Croak
Director Quality Operations, Bioscience Production

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

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 ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) 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

E3827

Recd by RP on ~~11/6~~ 11/7/24
RP 11/7

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24H2762011
Manufactured Date: 2024-06-05
Expiration Date:2025-09-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	5
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	<0.01 %

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

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

E 3845

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
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. : 32021 **Lot No.:** A0181737

Description : Chlordane Standard

Chlordane Standard 1000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Chlordane	1,006.0 µg/mL	+/- 5.9753	µg/mL	Gravimetric
	CAS # 57-74-9 (Lot 978545)		+/- 31.8975	µg/mL	Unstressed
	Purity ----%		+/- 41.6615	µg/mL	Stressed

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

P 11892 ↓ P 11896 (5)

06/17/2022

Tech Tips:
CAS #57-74-9 nomenclature is based on EPA method 8081B.

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

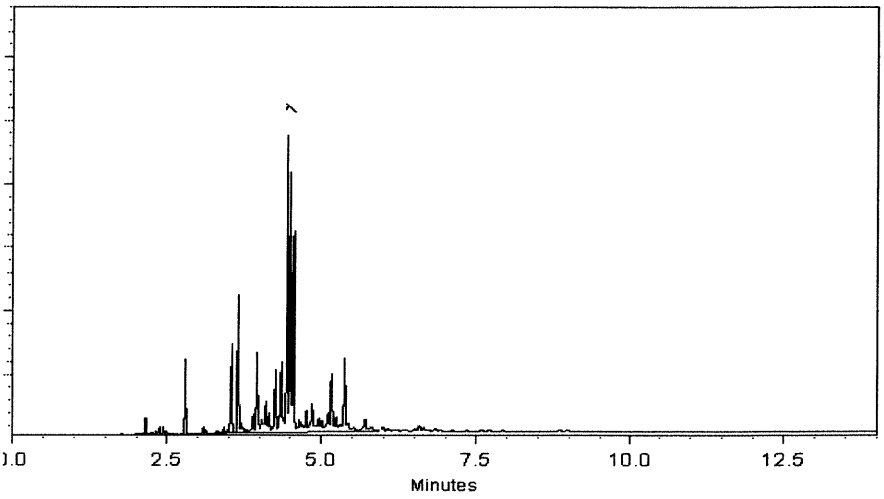
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD



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.

Josh McCloskey - Operations Technician I

Date Mixed: 11-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 24-Feb-2022

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

P 11892 | (5)
↓
P 11896
1

06/17/2022

RESTEK
110 Benner Circle
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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

ACCREDITED
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Testing Laboratory
Certificate #3222.02

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.

P130397 } 5
↓
P130431

Catalog No. : 32291 **Lot No.:** A0199099

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

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

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

12.26.2023

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.0 µg/mL	+/- 8.9732
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	200.1 µg/mL	+/- 8.9762
3	beta-BHC	319-85-7	BCCC6425	99%	200.3 µg/mL	+/- 8.9844
4	delta-BHC	319-86-8	14450800	98%	200.0 µg/mL	+/- 8.9740
5	Heptachlor	76-44-8	813251	99%	200.1 µg/mL	+/- 8.9754
6	Aldrin	309-00-2	14389400	98%	200.0 µg/mL	+/- 8.9718
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.1 µg/mL	+/- 8.9754
8	trans-Chlordane	5103-74-2	32943	98%	199.9 µg/mL	+/- 8.9696
9	cis-Chlordane	5103-71-9	31766	98%	200.1 µg/mL	+/- 8.9762
10	Endosulfan I	959-98-8	BCCF4060	99%	200.1 µg/mL	+/- 8.9754
11	4,4'-DDE	72-55-9	GHYQG	99%	200.1 µg/mL	+/- 8.9777
12	Dieldrin	60-57-1	11129900	98%	200.0 µg/mL	+/- 8.9718
13	Endrin	72-20-8	14123200	98%	199.9 µg/mL	+/- 8.9696
14	4,4'-DDD	72-54-8	HAN02	99%	200.1 µg/mL	+/- 8.9777
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	200.0 µg/mL	+/- 8.9718

17	Endrin aldehyde	7421-93-4	30720	98%	200.1	µg/mL	+/- 8.9784
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.0	µg/mL	+/- 8.9732
19	Methoxychlor	72-43-5	13668200	99%	200.1	µg/mL	+/- 8.9777
20	Endrin ketone	53494-70-5	1-ABS-16-7	98%	200.0	µg/mL	+/- 8.9740

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

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P 13039 5
↓
P 13043 1
12/26/23

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

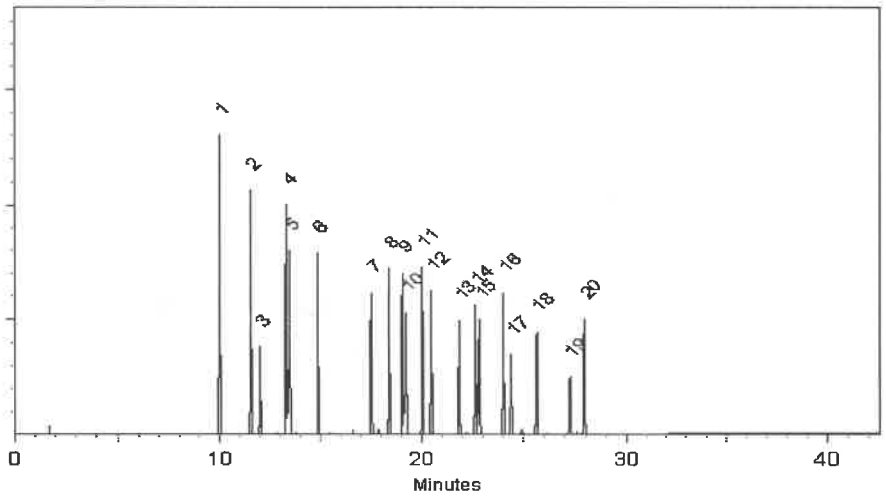
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

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.

Josh McCloskey - Operations Technician I

Date Mixed: 19-Jun-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 23-Jun-2023

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 79136
Lot Number: 102821
Description: Mirex

Expiration Date: 102826
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 1000
NIST Test ID#: 6UTB

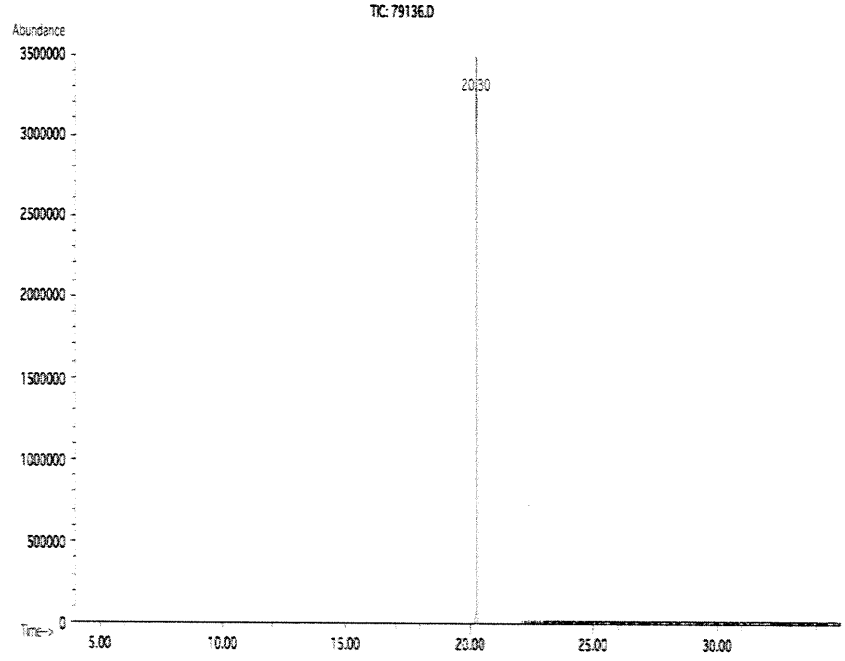
Solvent(s): **Lot#**
Acetone 81025

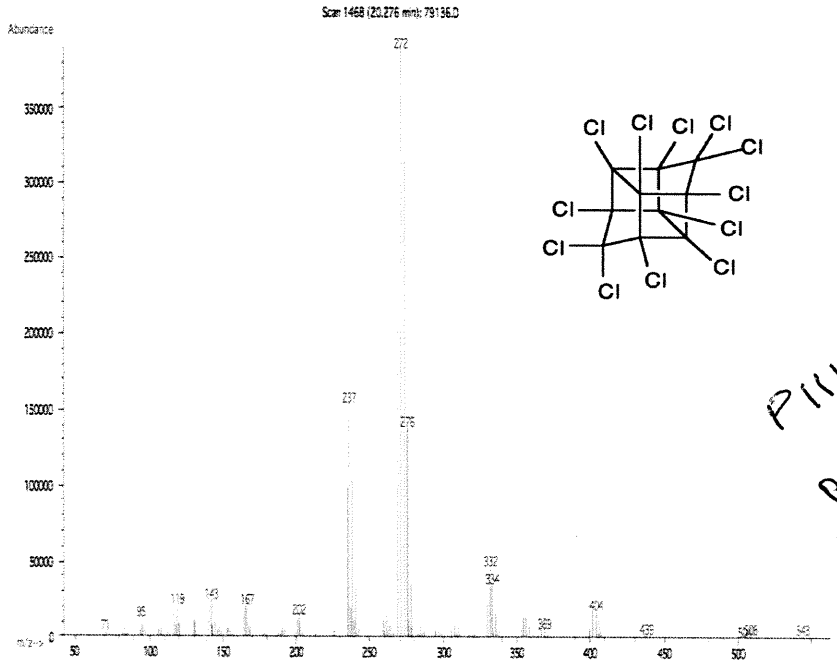
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.006 Flask Uncertainty

Eli Aliaga	102821
Formulated By: Eli Aliaga	DATE
Pedro Rentas	102821
Reviewed By: Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc(µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. Mirex	437	9492400	1000	99.4	0.5	0.05034	0.05039	1000.9	10.3	2385-85-5	N/A	orl-rat 306mg/kg

Method GC7MSD-1.M: Column: SPB-608 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 150°C (4min.), Temp 2 = 290°C (13.5 min.), Rate = 8°C/min., Injector B= 200°C, Detector B = 290°C. Split Ratio = 100:1, Scan Rate = 2. Analysis performed by Candice Warren.





P11142 To P11146
AR 11/02/21

- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

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Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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ilac-MRA A2LA ACCREDITED 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.

P 13034 ↓ P 13038 5

12.26.2023

Catalog No. : 32291 **Lot No.:** A0200423

Description : Organochlorine Pesticide Mix AB #1

Organochlorine Pesticide Mix AB #1 200µg/mL, Hexane/Toluene(50:50), 1mL/ampul

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

Expiration Date : July 31, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	alpha-BHC	319-84-6	14434500	99%	200.5 µg/mL	+/- 8.9956
2	gamma-BHC (Lindane)	58-89-9	14184400	98%	199.9 µg/mL	+/- 8.9696
3	beta-BHC	319-85-7	BCCC6425	99%	200.0 µg/mL	+/- 8.9732
4	delta-BHC	319-86-8	14450800	98%	199.9 µg/mL	+/- 8.9696
5	Heptachlor	76-44-8	813251	99%	202.0 µg/mL	+/- 9.0629
6	Aldrin	309-00-2	14389400	98%	200.9 µg/mL	+/- 9.0136
7	Heptachlor epoxide (isomer B)	1024-57-3	14448800	99%	200.0 µg/mL	+/- 8.9732
8	trans-Chlordane	5103-74-2	34616	99%	200.5 µg/mL	+/- 8.9956
9	cis-Chlordane	5103-71-9	31766	98%	201.4 µg/mL	+/- 9.0356
10	Endosulfan I	959-98-8	BCCF4060	99%	200.0 µg/mL	+/- 8.9732
11	4,4'-DDE	72-55-9	GHYQG	99%	201.5 µg/mL	+/- 9.0405
12	Dieldrin	60-57-1	14515000	98%	199.9 µg/mL	+/- 8.9696
13	Endrin	72-20-8	14485300	98%	200.4 µg/mL	+/- 8.9916
14	4,4'-DDD	72-54-8	HAN02	99%	200.5 µg/mL	+/- 8.9956
15	Endosulfan II	33213-65-9	14374700	99%	200.0 µg/mL	+/- 8.9732
16	4,4'-DDT	50-29-3	230410JLMA	98%	201.9 µg/mL	+/- 9.0575

17	Endrin aldehyde	7421-93-4	30720	98%	201.4	µg/mL	+/- 9.0356
18	Endosulfan sulfate	1031-07-8	BCCH9010	99%	200.5	µg/mL	+/- 8.9956
19	Methoxychlor	72-43-5	14563200	98%	200.9	µg/mL	+/- 9.0136
20	Endrin ketone	53494-70-5	14537700	98%	199.9	µg/mL	+/- 8.9696

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

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

P13034) 5
↓
P13038 1

12/26/2023

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

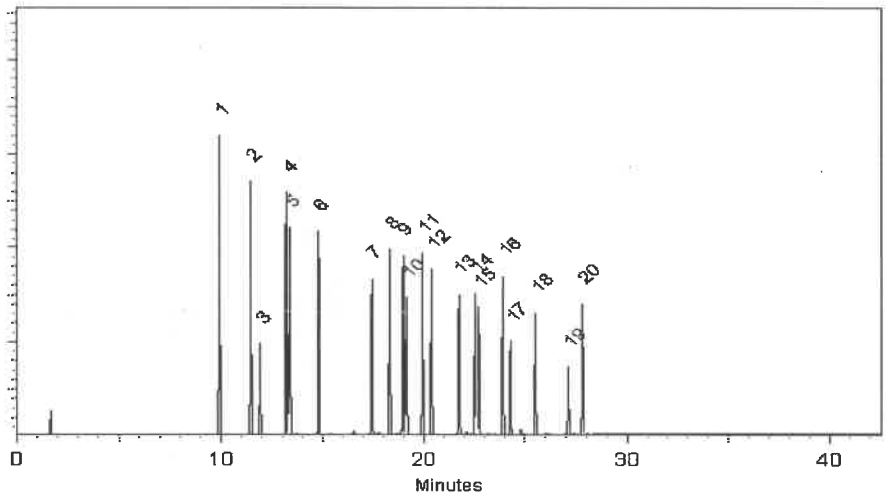
Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 50:1

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.

Sam Moodler - Operations Tech I

Date Mixed: 31-Jul-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Aug-2023

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

Absolute Standards, Inc.
800-368-1131
www.absolutestandards.com

Certified Reference Material CRM

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 19161
Lot Number: 013124
Description: CLP Pesticides & PCB's Resolution Check Standard
9 components

Solvent(s):	Lot#	
Hexane	273615	(50%)
Toluene	28508	(50%)

Expiration Date: 013129
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): Varied
NIST Test ID#: 6UTB

Volume(s) shown below were combined and diluted to (mL): 100.0 ± 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Formulated By:	Lawrence Barry	013124 DATE
Reviewed By:	Pedro L. Rentas	013124 DATE

	Compound	Part Number	Lot Number	Dil. Factor	Initial Vol. (mL)	Uncertainty Pipette (mL)	Initial Conc.(ug/mL)	Final Conc.(ug/mL)	Expanded Uncertainty (+/-) µg/mL	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1.	trans-Chlordane	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	5103-74-2	0.5mg/m3 (skin)	orl-rat 500mg/kg
2.	Endosulfan I	19361	013124	0.010	1.00	0.004	101.3	1.0	0.02	959-98-8	0.1mg/m3 (skin)	orl-rat 18mg/kg
3.	4,4'-DDE	19361	013124	0.010	1.00	0.004	201.6	2.0	0.03	72-55-9	N/A	orl-rat 880mg/kg
4.	Dieldrin	19361	013124	0.010	1.00	0.004	202.8	2.0	0.03	60-57-1	0.25mg/m3 (skin)	orl-rat 38300ug/kg
5.	Endosulfan sulfate	19361	013124	0.010	1.00	0.004	204.2	2.0	0.03	1031-07-8	N/A	orl-rat 18mg/kg
6.	Endrin ketone	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	53494-70-5	N/A	N/A
7.	4,4'-Methoxychlor	19361	013124	0.010	1.00	0.004	1000.7	10.0	0.09	72-43-5	10mg/m3	orl-rat 6000mg/kg
8.	2,4,5,6-Tetrachloro-m-xylene	19361	013124	0.010	1.00	0.004	202.6	2.0	0.03	877-09-8	N/A	N/A
9.	Decachlorobiphenyl (209)	19361	013124	0.010	1.00	0.004	202.0	2.0	0.03	2051-24-3	N/A	N/A

P13243 } (5)
thru
P13247

02/9/2024

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED 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.

P13348 ↓ P13357 (10)

04/25/2024

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

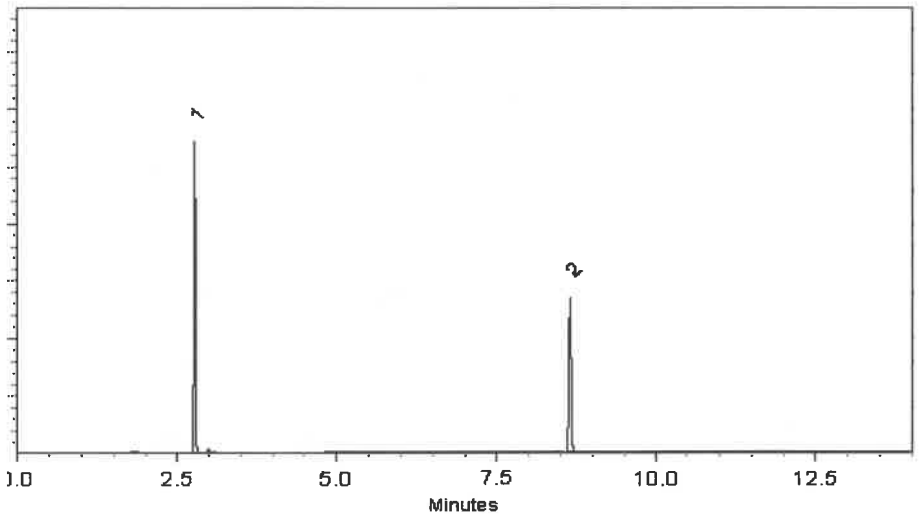
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

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P13348 ↓ P13357 (10)

04/25/2024

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

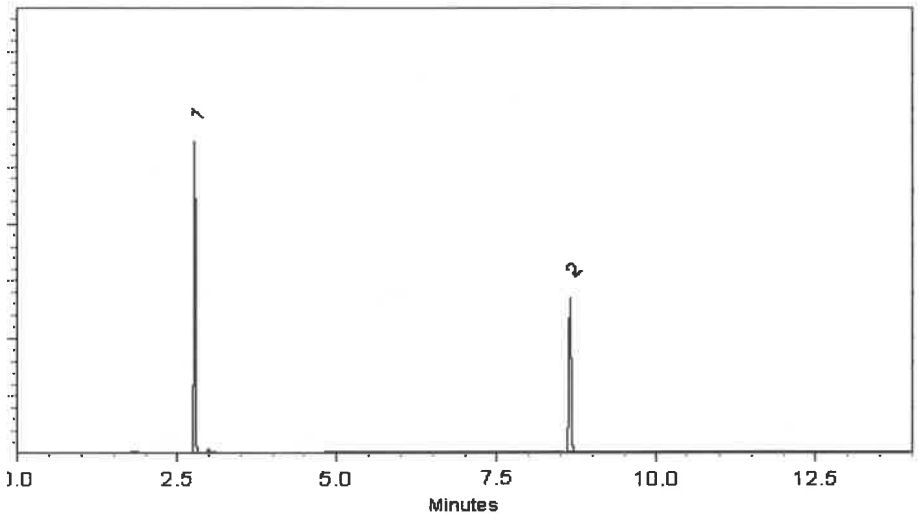
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

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P13348 ↓ P13357 (10)

04/25/2024

Catalog No. : 32000 **Lot No.:** A0206810

Description : Pesticide Surrogate Mix

Pesticide Surrogate Mix 200 µg/mL, Acetone, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Contains PCBs - sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4,5,6-Tetrachloro-m-xylene	877-09-8	RP220407	99%	200.3 µg/mL	+/- 11.1143
2	Decachlorobiphenyl (BZ# 209)	2051-24-3	30638	99%	200.6 µg/mL	+/- 11.1298

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

Solvent: Acetone
CAS # 67-64-1
Purity 99%

Tech Tips:

Decachlorobiphenyl has poor solubility in most organic solvents. The maximum concentration that can be prepared in acetone, hexane, or isooctane is 200µg/mL. Temperature will affect the solubility as well. Storing solutions at reduced temperatures will cause decachlorobiphenyl to precipitate.

Products containing decachlorobiphenyl must be sonicated for a minimum of 10 minutes prior to opening the ampul. Because each ultrasonic bath operates at a different energy level, 10 minutes is a guideline only. Longer sonication time will not affect product quality.

These precautions apply to working solutions prepared in your laboratory as well. The amount of compound that precipitates depends on concentration AND temperature. If you store your standards at a temperature lower than 4°C (even dilute solutions), allow extra sonication time.

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
hellum-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

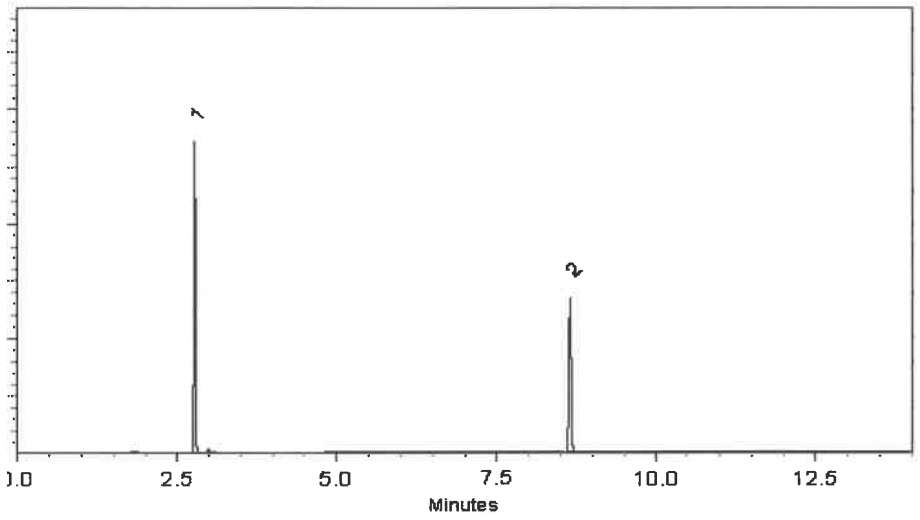
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 ml/min.

Inj. Vol
1µl



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

Laith Clemente - Operations Technician I

Date Mixed: 22-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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

P13348 (10)

↓

P13357

04/25/2025

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Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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Catalog No. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.0 µg/mL	+/- 55.9920

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

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

P13358 (12)
↓
P13369

05-06-2024

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

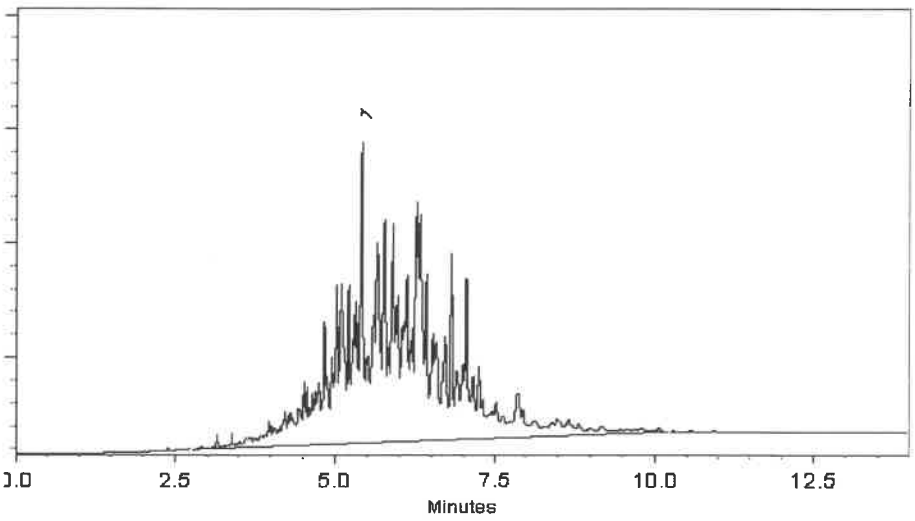
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
0.2µl



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.

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13358 (12)

P13369

05-06-2024

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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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Testing Laboratory
Certificate #3222.02

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.

P13402 & P13406 (5)

5/22/2024

Catalog No. : 32005 **Lot No.:** A0203038

Description : Toxaphene Standard

Toxaphene Standard 1000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2028 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Toxaphene	8001-35-2	1051817	----%	1,009.0 µg/mL	+/- 55.9920

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

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

Quality Confirmation Test

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
200°C to 300°C
@ 25°C/min. (hold 10 min.)

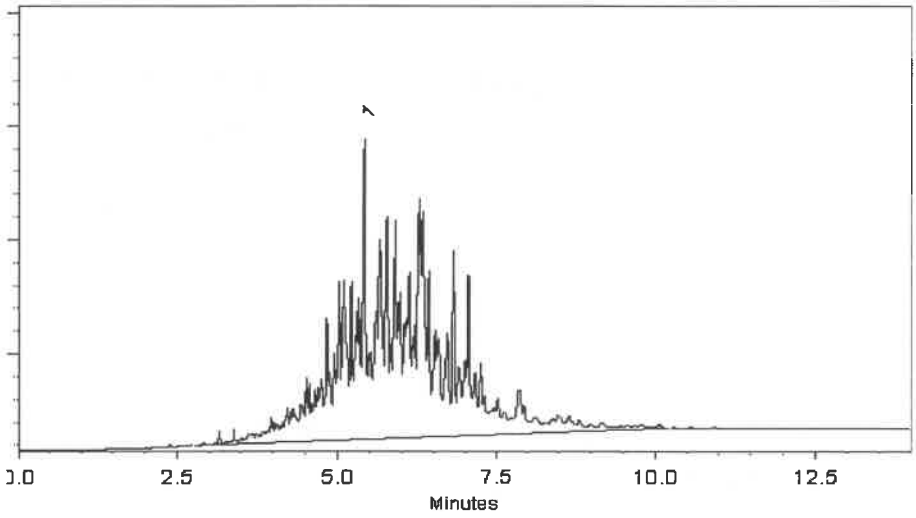
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
0.2µl



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.

Dakota Parson - Operations Technician I **Date Mixed:** 10-Oct-2023 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 16-Oct-2023

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

P13402
↓
P13406
5

5/22/2024

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. P50093
COC Number 2040990 P5094

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: R3M Engineering, INC
ADDRESS: 11 Landing Ln.
CITY New Brunswick STATE: NJ ZIP:
ATTENTION: Stacey L. Felts-Bock
PHONE: (973) 207-1820 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: MC054.36 23-B-1 LM - Landing Lane New Brunswick
PROJECT NO.: LOCATION:
PROJECT MANAGER:
e-mail:
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*
HARDCOPY (DATA PACKAGE): STD DAYS*
EDD: _____ DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ❑ Level 1 (Results Only)
- ❑ Level 2 (Results + QC)
- ❑ Level 3 (Results + QC + Raw Data)
- ❑ Level 4 (QC + Full Raw Data)
- ❑ NJ Reduced ❑ US EPA CLP
- ❑ NYS ASP A ❑ NYS ASP B
- ❑ Other _____
- ❑ EDD FORMAT _____

ANALYSIS

1 VOC-TCL
2 SVOC-TCL BNA 20
3 Pest./PCB
4 TOC
5 Dioxin
6 Metals
7 Cyanide
8
9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A	E	E	C	E	B	D			← Specify Preservatives
1.	LL-001	W.		X	12/4	1105	10	X	X	X	X	X	X	X			A-HCl D-NaOH
2.	LL-001-FB-12-4-24	W		X	12/4	1100	10	X	X	X	X	X	X	X			B-HN03 E-ICE
3.	TB-12-4-24	W		X	12/4	—	2	X									C-H2SO4 F-OTHER
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

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

	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER: 1.	DATE/TIME: 1200 12/4/24	RECEIVED BY: 1.
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY SAMPLER: 3.	DATE/TIME: 1300 12/4/24	RECEIVED BY: 3.

Conditions of bottles or coolers at receipt: ❑ COMPLIANT ❑ NON COMPLIANT ❑ COOLER TEMP 5.3°C °C
Comments:

Page 1 of 1

CLIENT: ❑ Hand Delivered ❑ Other _____
CHEMTECH: ❑ Picked Up ❑ Field Sampling

Shipment Complete ❑ YES ❑ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

LOW FLOW SAMPLING
DATA SHEET

SHEET 1 OF 1

SITE: Landing Lane New Brunswick
DATE: 12-4-24
WEATHER:

CONSULTING FIRM: Alliance Technical Group
FIELD PERSONNEL: Gorge Vegnon

MONITOR WELL #:
WELL PERMIT #:
WELL DEPTH: 20'
WELL DIAMETER: 2" inches
SCREENED/OPEN INTERVAL:

PID/FID READINGS (ppm):
BACKGROUND: 0.0
BENEATH OUTER CAP: 0.0
BENEATH INNER CAP: 0.0

PUMP INTAKE DEPTH: _____ ft below TOC
DEPTH TO WATER BEFORE PUMP INSTALLATION: 22.8' ft below TOC

TIME	PURGING	SAMPLING	pH (pH units)		SPECIFIC CONDUCTIVITY (mS/cm)		REDOX POTENTIAL (mv)		DISSOLVED OXYGEN (mg/l)		TURBIDITY (NTU)		TEMPERATURE (degrees C)		PUMPING RATE (ml/min)	DEPTH TO WATER (ft below TOC)
			READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*	READING	CHANGE*		
0925	X		7.38	NA	0.266	NA	162	NA	4.60	NA	257	NA	15.42	NA	—	22.8'
0930	X		7.24	0.14	0.261	0.005	157	5	4.03	0.57	253	4	16.05	0.63	—	22.8'
0935	X		7.14	0.1	0.257	0.004	139	18	2.77	1.26	94.8	158.2	16.44	0.39	—	22.8'
0940	X		7.11	0.03	0.255	0.002	132	7	1.89	0.88	73.6	21.2	16.66	0.22	—	22.8'
0945	X		7.11	0	0.254	0.001	128	4	1.19	0.7	60.1	13.5	16.92	0.26	—	22.8'
0950	X		7.11	0	0.252	0.002	122	6	2.11	0.92	54.2	5.9	16.82	0.1	—	22.8'
0955	X		7.11	0	0.253	0.001	121	1	2.12	0.01	52.8	1.4	16.79	0.03	—	22.8'
1000	X		7.11	0	0.255	0.002	120	1	2.08	0.04	52.6	0.2	16.78	0.01	—	22.8'
1005		X	7.11	0	0.257	0.002	122	2	2.06	0.02	51.9	0.9	16.77	0.01	—	22.8'

COMMENTS:

*INDICATOR PARAMETERS HAVE STABILIZED WHEN 3 CONSECUTIVE READINGS ARE WITHIN: ±0.1 for pH; ±3% for Specific Conductivity and Temperature; ±10 mv for Redox Potential; and ±10% for Dissolved Oxygen and Turbidity.

Alliance Technical Group, LLC-Newark

284 Sheffield Street, Mountainside, NJ 07092 Tel. 908-789-8900 Fax 908-789-8922

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln. New Brunswick

Client Rep on Site: Stacey L. Fehto-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: 1200

Project Name: MC054.36 23-8-1 LH-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD EQUIPMENT CALIBRATION

pH Calibration (SM4500-H B/9040C)				
	Calibration			ICV (± 0.1 pH unit)
	7.00 Buffer W 3071	4.00 Buffer W 3107	10.00 Buffer W 3094	7.00 Buffer W 3093
Time	0710	0712	0714	0716
Temp °C	14.92	14.96	14.90	14.93
pH	7.00	4.01	10.02	7.00

FIELD EQUIPMENT CALIBRATION

Specific Conductance (mS/cm) (99% -101%)/(mmho/cm) (SM2510 B/120.1/9050A)		
	Calibration (± 1%) (99% -101%)	ICV (± 1%) (99% -101%)
	WP	WP
Time		
Temp °C		
Reading (mS/cm)		

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date:

Alliance Technical Group, LLC-Newark

284 Sheffield Street, Mountainside, NJ 07092 Tel. 908-789-8900 Fax 908-789-8922

FIELD SAMPLING LOG

Client Name: R3M Engineering, INC

Client Address: 11 Landing Ln.

Client Rep on Site: Stacey L. Felts-Bock

Sampling Date: 12-4-24

Arrival Time: 0700 Departure Time: _____

Project Name: MC054 36 23-8-1 LM-Landing Lane New Brunswick

Project Location: New Brunswick

Cooler Custody Seal: N/A

Temperature Correction Factor (°C): —

FIELD SAMPLING INFORMATION

Sampling Location	Date/Time of sampling	Field Measurements			
		Date/Time of Analysis	pH	Temperature °C	Specific Conductance (mS/cm) (99% -101%)
CCV (W3071)	12-4-24 0959	12-4-24 1001	7.01	16.70	0.266
LL-001	1003	1005	7.11	16.77	0.257
DUP	1007	1009	7.11	16.76	0.255
CCV (W3071)	1011	1013	7.00	16.72	0.264

Meter: YSI MPS, Model # 556, Serial # 085A0063

Sampler Signature/Date: [signature] 12/4/24

Supervisor Review/Date: _____

CHEMTECH 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

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : P5093 RTHR01
Client Name : R3M Engineering, Inc.
Client Contact : Stacey L. Felts-Bock
Invoice Name : R3M Engineering, Inc.
Invoice Contact : Stacey L. Felts-Bock

Order Date : 12/4/2024 12:24:38 PM
Project Name : MC054.36 23-8-1 LM - Lar
Receive DateTime : 12/4/2024 ~~12:00:00 AM~~ 13:00
Purchase Order :

Project Mgr :
Report Type : Level 1
EDD Type : Excel NJ
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5093-01	LL-001	Water	12/04/2024	11:05					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-02	LL-001-FB-12-4-24	Water	12/04/2024	11:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days
P5093-03	TB-12-4-24	Water	12/04/2024	00:00					
					VOC-TCLVOA-10	TCL+30/TAL	8260-Low		10 Bus. Days

Relinguished By : AV
Date / Time : 12/4/24 1400

Received By : Sally
Date / Time : 12/4/24 14:00 NG 12 4

Storage Area : **VOA Refridgerator Room**