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:	Q1370	**OrderDate:**	2/14/2025 9:17:00 AM
Client:	Chemtech Consulting Group	**Project:**	Weekly Storage Blanks
Contact:	QA Officer	**Location:**	D11,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1370-13	**PCB-GPC2-BLANK**	**SOIL**			**02/14/25**			**02/14/25**
			PCB	SFAM_PCB		02/17/25	02/24/25	
Q1370-14	**PCB-GPC2-BLANK-SPIKE**	**SOIL**			**02/14/25**			**02/14/25**
			PCB	SFAM_PCB		02/17/25	02/24/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1370 **Order ID:** Q1370

Client: Chemtech Consulting Group **Project ID:** Weekly Storage Blanks

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**PCB-GPC2-BLANK-SPIKE**							
Q1370-14	PCB-GPC2-BLANK-S	SOIL	Aroclor-1016	370		7.20	100	ug/kg
Q1370-14	PCB-GPC2-BLANK-S	SOIL	Aroclor-1260	400		7.50	100	ug/kg
			Total Concentration:	**770.000**				

QC SUMMARY

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

Surrogate Summary

SDG No.: Q1370

Client: Chemtech Consulting Group

Analytical Method: SFAM_PCB

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PR070335.D	PIBLK-PR070335.D	TCX	1	20	0.21	104		30	150
		DCB	1	40	0.44	111		30	150
		TCX	2	20	0.22	108		30	150
		DCB	2	40	0.43	109		30	150
I.BLK-PR070348.D	PIBLK-PR070348.D	TCX	1	20	0.21	104		30	150
		DCB	1	40	0.43	109		30	150
		TCX	2	20	0.22	110		30	150
		DCB	2	40	0.44	109		30	150
Q1370-13	PCB-GPC2-BLANK	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
Q1370-14	PCB-GPC2-BLANK-SPIKE	TCX	1	20	0	0	*	30	150
		DCB	1	40	0	0	*	30	150
		TCX	2	20	0	0	*	30	150
		DCB	2	40	0	0	*	30	150
I.BLK-PR070352.D	PIBLK-PR070352.D	TCX	1	20	0.21	104		30	150
		DCB	1	40	0.44	109		30	150
		TCX	2	20	0.22	108		30	150
		DCB	2	40	0.44	111		30	150

SAMPLE DATA

Raw Data: **PR070350.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PCB-GPC2-BLANK	SDG No.:	Q1370
Lab Sample ID:	Q1370-13	Matrix:	SOIL
Analytical Method:	SFAM_PCB	% Solid:	100 Decanted:
Sample Wt/Vol:	10 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	2.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR070350.D	1	02/17/25 10:32	02/24/25 20:43	PB166744

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	7.20	U	7.20	100	ug/kg
11104-28-2	Aroclor-1221	7.50	U	7.50	100	ug/kg
11141-16-5	Aroclor-1232	7.50	U	7.50	100	ug/kg
53469-21-9	Aroclor-1242	7.50	U	7.50	100	ug/kg
12672-29-6	Aroclor-1248	7.50	U	7.50	100	ug/kg
11097-69-1	Aroclor-1254	7.50	U	7.50	100	ug/kg
11096-82-5	Aroclor-1260	7.50	U	7.50	100	ug/kg
37324-23-5	Aroclor-1262	7.50	U	7.50	100	ug/kg
11100-14-4	Aroclor-1268	7.50	U	7.50	100	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

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_R\Data\PR022425\
Data File : PR070350.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:43
Operator : AJ\MA
Sample : Q1370-13
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
PCB-GPC2-BLANK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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

Target Compounds

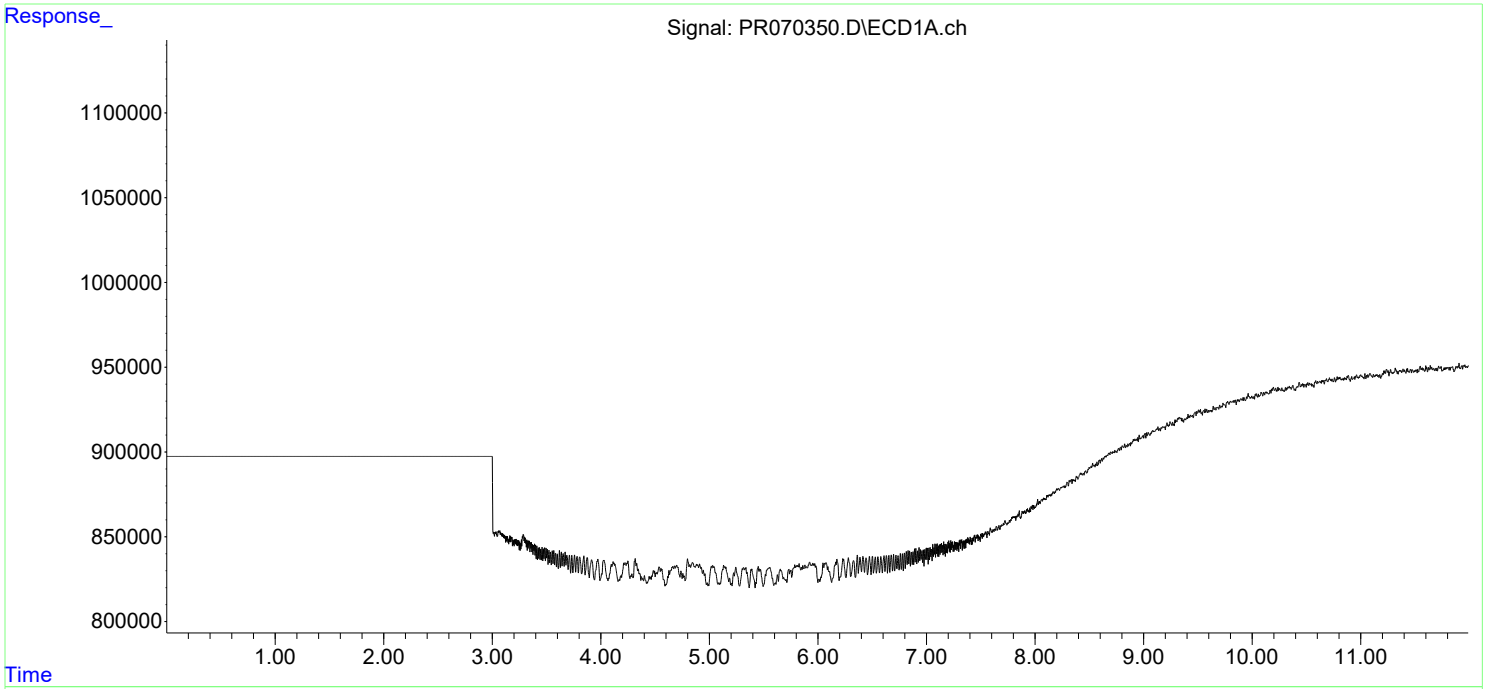
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

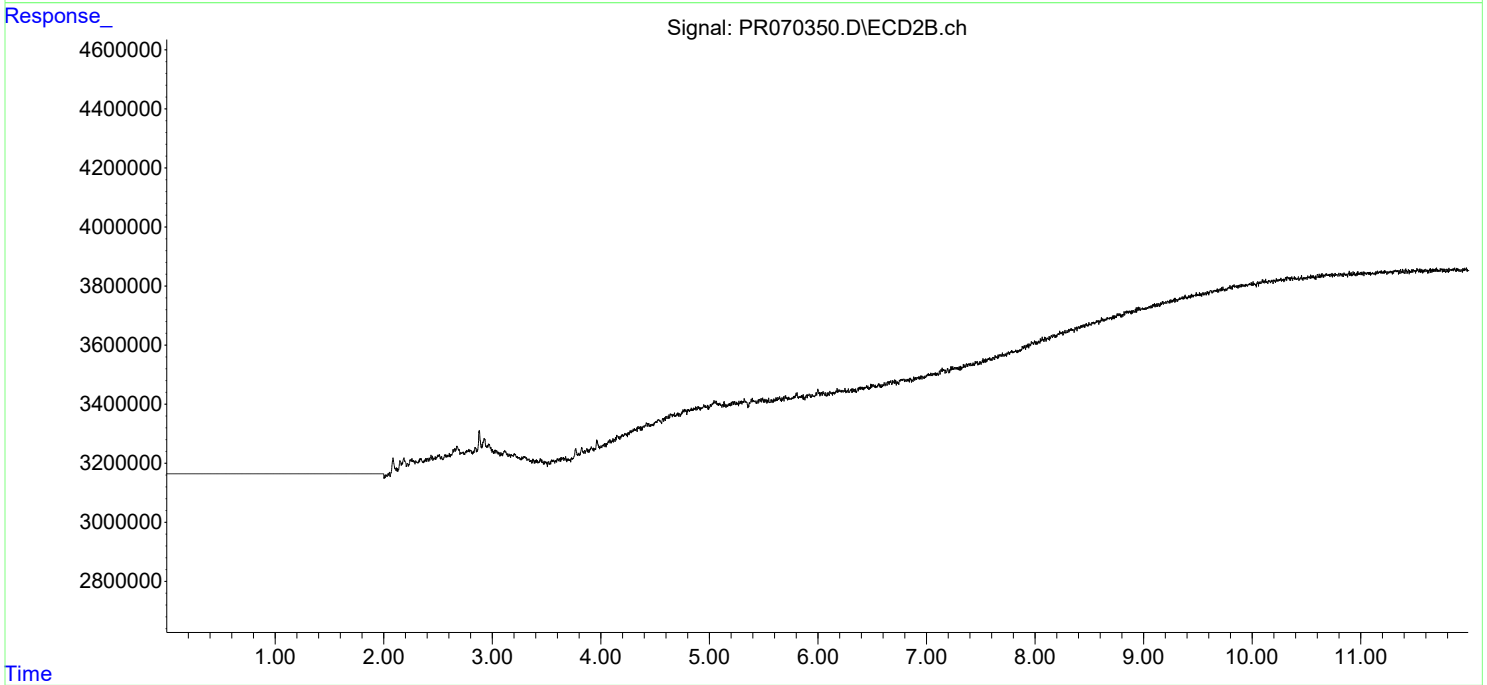
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070350.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:43
Operator : AJ\MA
Sample : Q1370-13
Misc :
ALS Vial : 45 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
PCB-GPC2-BLANK

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:45 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PR070351.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/14/25
Project:	Weekly Storage Blanks	Date Received:	02/14/25
Client Sample ID:	PCB-GPC2-BLANK-SPIKE	SDG No.:	Q1370
Lab Sample ID:	Q1370-14	Matrix:	SOIL
Analytical Method:	SFAM_PCB	% Solid:	100 Decanted:
Sample Wt/Vol:	10 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	2.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR070351.D	1	02/17/25 10:32	02/24/25 20:57	PB166744

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	370		7.20	100	ug/kg
11104-28-2	Aroclor-1221	7.50	U	7.50	100	ug/kg
11141-16-5	Aroclor-1232	7.50	U	7.50	100	ug/kg
53469-21-9	Aroclor-1242	7.50	U	7.50	100	ug/kg
12672-29-6	Aroclor-1248	7.50	U	7.50	100	ug/kg
11097-69-1	Aroclor-1254	7.50	U	7.50	100	ug/kg
11096-82-5	Aroclor-1260	400		7.50	100	ug/kg
37324-23-5	Aroclor-1262	7.50	U	7.50	100	ug/kg
11100-14-4	Aroclor-1268	7.50	U	7.50	100	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0	*	30 - 150	%	SPK: 20
2051-24-3	Decachlorobiphenyl	0	*	30 - 150	%	SPK: 40

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_R\Data\PR022425\
Data File : PR070351.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:57
Operator : AJ\MA
Sample : Q1370-14
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
PCB-GPC2-BLANK-SPIKE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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						
	Target Compounds						
3)	L1 AR-1016-1	4.844	4.073	10470617	61725179	352.623	385.032
4)	L1 AR-1016-2	4.866	4.091	18125495	95775245	373.898	385.511
5)	L1 AR-1016-3	4.929	4.270	11229562	51911000	358.353	387.216
6)	L1 AR-1016-4	5.031	4.322	9238464	45919407	379.470	379.775
7)	L1 AR-1016-5	5.346	4.539	9381347	55457385	358.767	378.727
31)	L7 AR-1260-1	6.557	5.633	19145243	103.7E6	415.421	438.353
32)	L7 AR-1260-2	6.841	5.839	19375564	110.2E6	418.248	438.851
33)	L7 AR-1260-3	7.231	5.997	14829377	113.8E6	372.757	443.531
34)	L7 AR-1260-4	7.474	6.504	17208970	69544978	405.220	335.194
35)	L7 AR-1260-5	7.815	6.771	26155306	174.7E6	398.432	417.390

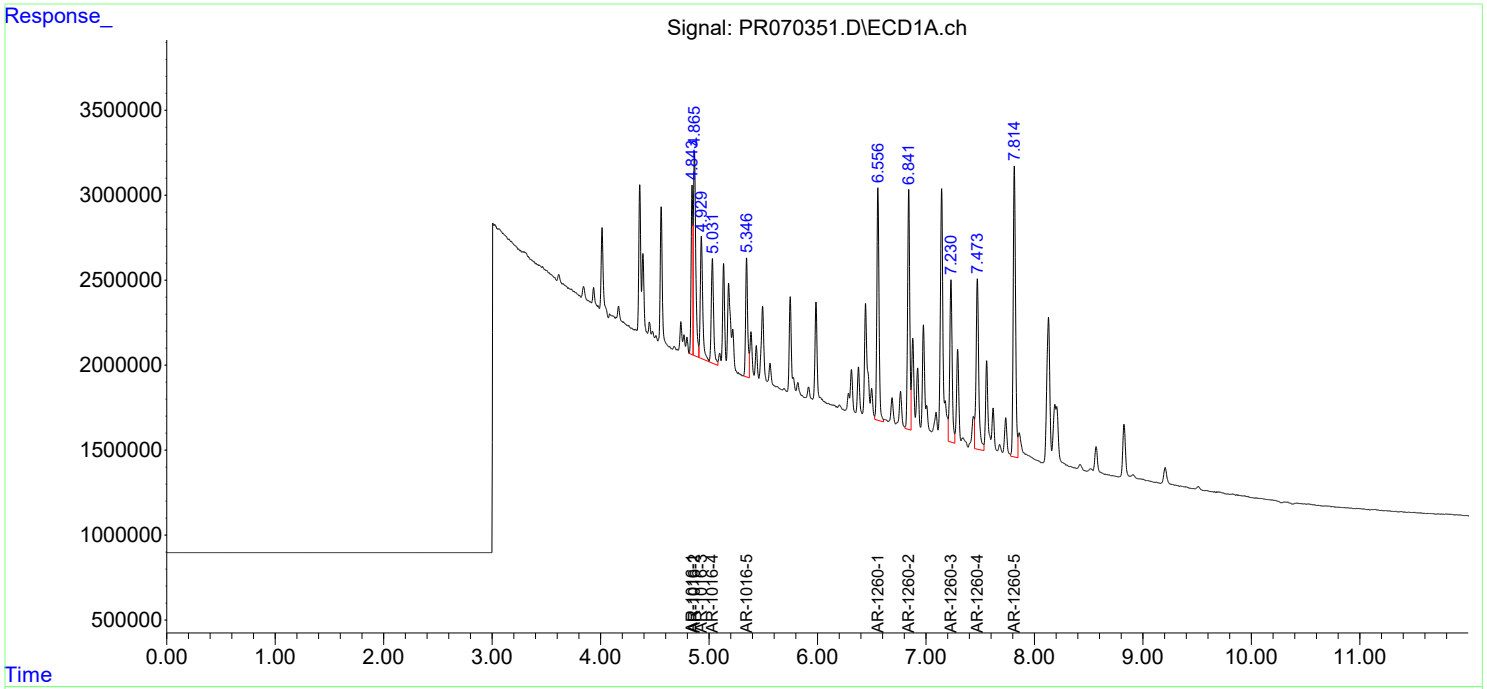
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

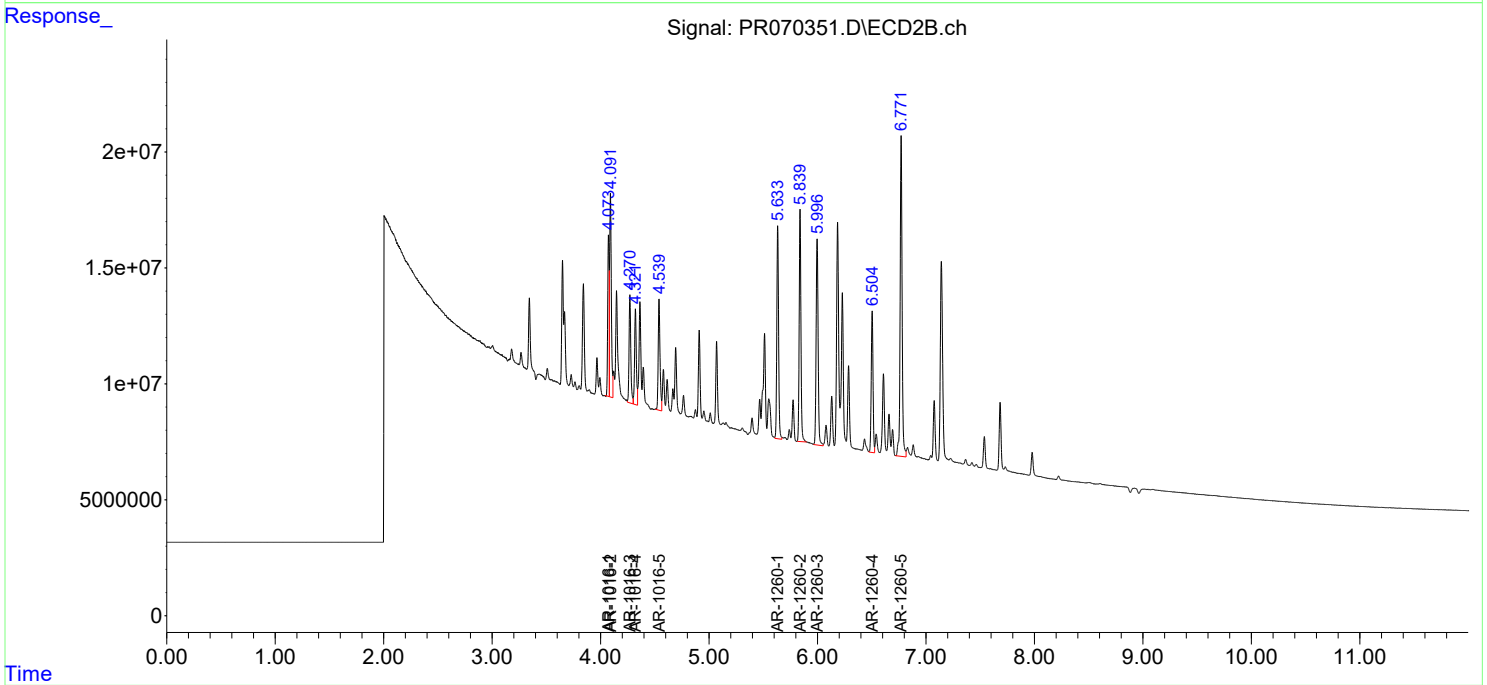
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070351.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:57
Operator : AJ\MA
Sample : Q1370-14
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
PCB-GPC2-BLANK-SPIKE

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:55 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





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: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 17:17 19:59

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

LAB FILE ID: RT 100 = PR070336.D RT 200 = PR070337.D

RT 400 = PR070338.D RT 800 = PR070339.D RT 1600 = PR070340.D

COMPOUND		RT 100	RT 200	RT 400	RT 800	RT 1600	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.84	4.84	4.84	4.84	4.84	4.84	4.77	4.91
Aroclor-1016-2	(2)	4.87	4.87	4.87	4.87	4.87	4.87	4.80	4.94
Aroclor-1016-3	(3)	4.93	4.93	4.93	4.93	4.93	4.93	4.86	5.00
Aroclor-1016-4	(4)	5.03	5.03	5.03	5.03	5.03	5.03	4.96	5.10
Aroclor-1016-5	(5)	5.35	5.35	5.35	5.35	5.35	5.35	5.28	5.42
Aroclor-1260-1	(1)	6.56	6.56	6.56	6.56	6.56	6.56	6.49	6.63
Aroclor-1260-2	(2)	6.84	6.84	6.84	6.84	6.84	6.84	6.77	6.91
Aroclor-1260-3	(3)	7.23	7.23	7.23	7.23	7.23	7.23	7.16	7.30
Aroclor-1260-4	(4)	7.48	7.47	7.48	7.48	7.48	7.48	7.41	7.55
Aroclor-1260-5	(5)	7.82	7.82	7.82	7.82	7.82	7.82	7.75	7.89
DCB		9.51	9.51	9.51	9.51	9.51	9.51	9.41	9.61
TCX		3.62	3.62	3.62	3.62	3.62	3.62	3.57	3.67

Raw Data

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

RETENTION TIMES OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 17:17 19:59

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

LAB FILE ID: RT 100 = PR070336.D RT 200 = PR070337.D

RT 400 = PR070338.D RT 800 = PR070339.D RT 1600 = PR070340.D

COMPOUND		RT 100	RT 200	RT 400	RT 800	RT 1600	MEAN RT	RT WINDOW FROM	RT WINDOW TO
Aroclor-1016-1	(1)	4.07	4.07	4.07	4.07	4.07	4.07	4.00	4.14
Aroclor-1016-2	(2)	4.09	4.09	4.09	4.09	4.09	4.09	4.02	4.16
Aroclor-1016-3	(3)	4.27	4.27	4.27	4.27	4.27	4.27	4.20	4.34
Aroclor-1016-4	(4)	4.32	4.32	4.32	4.32	4.32	4.32	4.25	4.39
Aroclor-1016-5	(5)	4.54	4.54	4.54	4.54	4.54	4.54	4.47	4.61
Aroclor-1260-1	(1)	5.63	5.63	5.63	5.64	5.63	5.63	5.56	5.70
Aroclor-1260-2	(2)	5.84	5.84	5.84	5.84	5.84	5.84	5.77	5.91
Aroclor-1260-3	(3)	6.00	6.00	6.00	6.00	6.00	6.00	5.93	6.07
Aroclor-1260-4	(4)	6.51	6.51	6.51	6.51	6.51	6.51	6.44	6.58
Aroclor-1260-5	(5)	6.77	6.77	6.77	6.77	6.77	6.77	6.70	6.84
DCB		8.23	8.23	8.23	8.23	8.22	8.23	8.13	8.33
TCX		2.96	2.96	2.96	2.96	2.96	2.96	2.91	3.01

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R

Calibration Date(s): 02/24/2025 02/24/2025

Calibration Times: 17:17 19:59

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

LAB FILE ID: **CF 100 =** PR070336.D **CF 200 =** PR070337.D

CF 400 = PR070338.D **CF 800 =** PR070339.D **CF 1600 =** PR070340.D

COMPOUND		CF 100	CF 200	CF 400	CF 800	CF 1600	CF	% RSD
Aroclor-1016-1	(1)	30666140	30553405	30664158	29221351	27362348	29693480	5
Aroclor-1016-2	(2)	49175680	49701990	49571508	48356620	45579759	48477111	4
Aroclor-1016-3	(3)	32000780	32845850	32032113	31067455	28736786	31336597	5
Aroclor-1016-4	(4)	25023700	24922595	24780230	24305131	22696829	24345697	4
Aroclor-1016-5	(5)	28545070	27270025	26483000	25243940	23202346	26148876	8
Aroclor-1260-1	(1)	49953100	48637215	46134325	44395750	41311663	46086411	7
Aroclor-1260-2	(2)	49127500	48356745	47128630	44759095	42255538	46325502	6
Aroclor-1260-3	(3)	41639300	41223965	41489323	38630478	35931550	39782923	6
Aroclor-1260-4	(4)	44145870	43728190	44037575	41467508	38961894	42468207	5
Aroclor-1260-5	(5)	65321160	66066810	66571003	65362250	64906941	65645633	1
DCB		612464900	635643900	615724200	580372800	542252944	597291749	6
TCX		1297925600	1270838600	1268829300	1248519600	1210366613	1259295943	3

Raw Data

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

CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R **Calibration Date(s):** 02/24/2025 02/24/2025

Calibration Times: 17:17 19:59

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

LAB FILE ID: **CF 100 =** PR070336.D **CF 200 =** PR070337.D

CF 400 = PR070338.D **CF 800 =** PR070339.D **CF 1600 =** PR070340.D

COMPOUND		CF 100	CF 200	CF 400	CF 800	CF 1600	CF	% RSD
Aroclor-1016-1	(1)	168599510	166856890	162586775	156800775	146714792	160311748	6
Aroclor-1016-2	(2)	262500160	255986690	251730068	242831304	229137581	248437161	5
Aroclor-1016-3	(3)	141200600	139445045	136306920	130735498	122622479	134062108	6
Aroclor-1016-4	(4)	132271060	128806650	122956153	115023503	105503644	120912202	9
Aroclor-1016-5	(5)	159081040	152849245	147919948	141008490	131296404	146431025	7
Aroclor-1260-1	(1)	248516840	243079525	238439095	232145981	220963883	236629065	4
Aroclor-1260-2	(2)	255062800	256875435	253585958	249360924	240774851	251131994	3
Aroclor-1260-3	(3)	257787100	265169295	254579503	249291606	256443452	256654191	2
Aroclor-1260-4	(4)	207515720	212955410	208442540	206734216	201737178	207477013	2
Aroclor-1260-5	(5)	396223600	417475070	420511355	428926594	429644011	418556126	3
DCB		3234670800	3283931950	3266125725	3231281813	3140065313	3231215120	2
TCX		6542758200	6396888900	6365139500	6168652325	5942171950	6283122175	4

Raw Data

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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R **Date(s) Analyzed:** 02/24/2025 02/24/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	100	1	3.85	3.78	3.92	15283700
		2	3.93	3.86	4.00	10968600
		3	4.01	3.94	4.08	34355400
		4	0.00			0
		5	0.00			0
Aroclor-1232	100	1	4.01	3.94	4.08	28227400
		2	4.56	4.49	4.63	14820900
		3	4.86	4.79	4.93	23438500
		4	5.03	4.96	5.10	11639500
		5	5.14	5.07	5.21	8919930
Aroclor-1242	100	1	4.84	4.77	4.91	27905800
		2	4.87	4.80	4.94	43703600
		3	4.93	4.86	5.00	28628500
		4	5.03	4.96	5.10	22601200
		5	5.82	5.75	5.89	17848800
Aroclor-1248	100	1	4.84	4.77	4.91	21366300
		2	5.13	5.06	5.20	36163900
		3	5.35	5.28	5.42	42060100
		4	5.78	5.71	5.85	32257700
		5	5.82	5.75	5.89	32736700
Aroclor-1254	100	1	5.75	5.68	5.82	45408200
		2	5.99	5.92	6.06	66022900
		3	6.38	6.31	6.45	60399100
		4	6.69	6.62	6.76	32330300
		5	7.15	7.08	7.22	36797800
Aroclor-1262	100	1	7.23	7.16	7.30	61983700
		2	7.82	7.75	7.89	77081700
		3	8.12	8.05	8.19	58103500
		4	8.21	8.14	8.28	48098800
		5	8.83	8.76	8.90	22320000
Aroclor-1268	100	1	8.12	8.05	8.19	110326000
		2	8.21	8.14	8.28	98010000
		3	8.42	8.35	8.49	90866600
		4	8.83	8.76	8.90	25172800
		5	9.21	9.14	9.28	236711000

Raw Data

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

INITIAL CALIBRATION OF MULTICOMPONENT ANALYTES

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Instrument ID: ECD_R **Date(s) Analyzed:** 02/24/2025 02/24/2025

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

COMPOUND	AMOUNT (ng)	PEAK	RT	RT WINDOW FROM	RT WINDOW TO	CALIBRATION FACTOR
Aroclor-1221	100	1	3.18	3.11	3.25	80131500
		2	3.27	3.20	3.34	55222600
		3	3.34	3.27	3.41	179521000
		4	0.00			0
		5	0.00			0
Aroclor-1232	100	1	3.34	3.27	3.41	144473000
		2	4.09	4.02	4.16	123675000
		3	4.27	4.20	4.34	63474000
		4	4.36	4.29	4.43	61630200
		5	4.54	4.47	4.61	65007100
Aroclor-1242	100	1	4.07	4.00	4.14	149132000
		2	4.09	4.02	4.16	224781000
		3	4.27	4.20	4.34	120407000
		4	4.36	4.29	4.43	129464000
		5	4.91	4.84	4.98	130088000
Aroclor-1248	100	1	4.07	4.00	4.14	113981000
		2	4.32	4.25	4.39	192093000
		3	4.36	4.29	4.43	190861000
		4	4.54	4.47	4.61	221705000
		5	4.95	4.88	5.02	159412000
Aroclor-1254	100	1	4.91	4.84	4.98	299781000
		2	5.07	5.00	5.14	259185000
		3	5.49	5.42	5.56	347316000
		4	5.74	5.67	5.81	149763000
		5	6.19	6.12	6.26	269950000
Aroclor-1262	100	1	6.23	6.16	6.30	338001000
		2	6.77	6.70	6.84	479878000
		3	7.08	7.01	7.15	210798000
		4	7.15	7.08	7.22	367956000
		5	7.69	7.62	7.76	145377000
Aroclor-1268	100	1	7.08	7.01	7.15	632023000
		2	7.15	7.08	7.22	572180000
		3	7.37	7.30	7.44	536416000
		4	7.69	7.62	7.76	159935000
		5	7.98	7.91	8.05	1443530000

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070336.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:17
Operator : AJ\MA
Sample : AR1660ICC100
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16601238

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.956	6489628	32713791	5.115	5.140
2)	SA Decachlor...	9.513	8.226	6124649	32346708	9.947	9.904
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.073	3066614	16859951	100.006	103.698
4)	L1 AR-1016-2	4.866	4.092	4917568	26250016	99.202	104.278
5)	L1 AR-1016-3	4.929	4.270	3200078	14120060	99.902	103.590
6)	L1 AR-1016-4	5.031	4.321	2502370	13227106	100.983	107.576
7)	L1 AR-1016-5	5.345	4.540	2854507	15908104	107.786	107.545
31)	L7 AR-1260-1	6.557	5.634	4995310	24851684	108.278	104.227
32)	L7 AR-1260-2	6.842	5.841	4912750	25506280	104.241	100.582
33)	L7 AR-1260-3	7.233	5.999	4163930	25778710	100.361	101.260
34)	L7 AR-1260-4	7.476	6.506	4414587	20751572	100.246	99.555
35)	L7 AR-1260-5	7.816	6.773	6532116	39622360	98.123	94.224

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

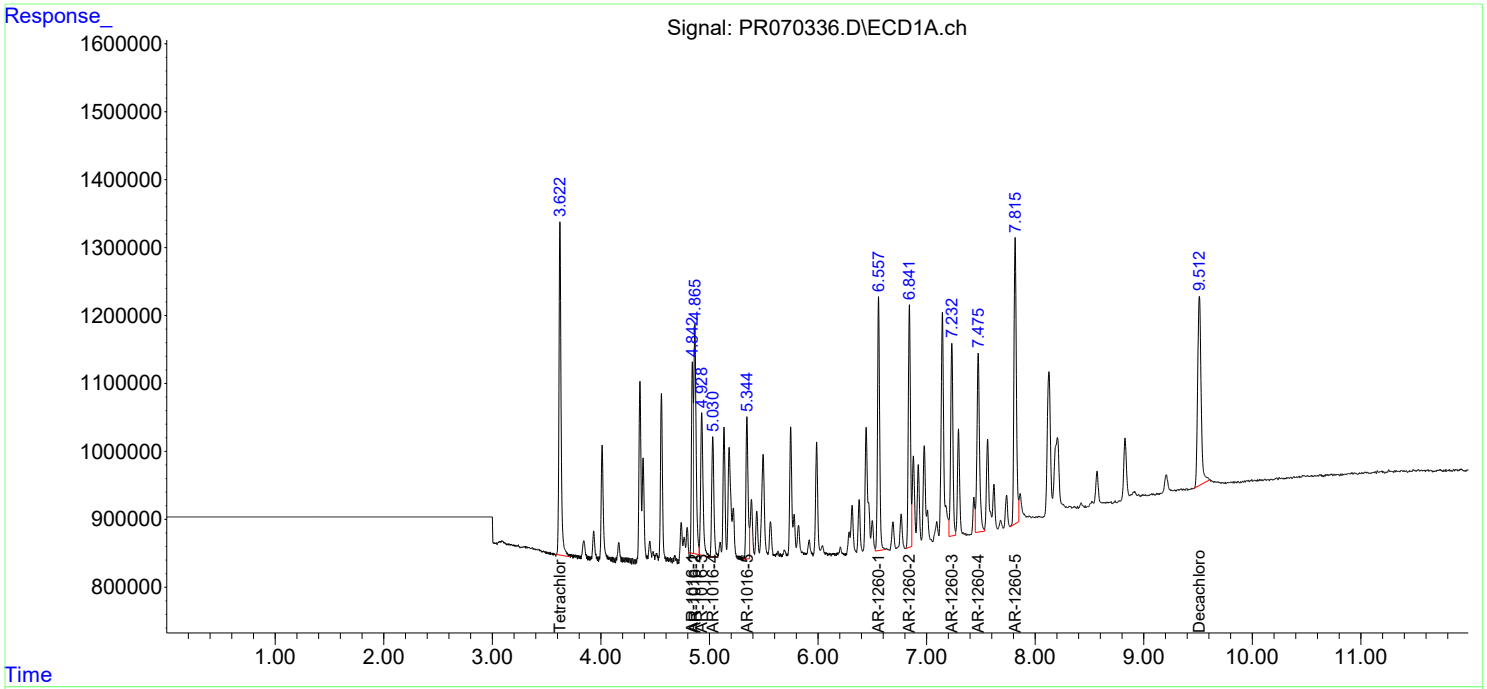
ICAL Form

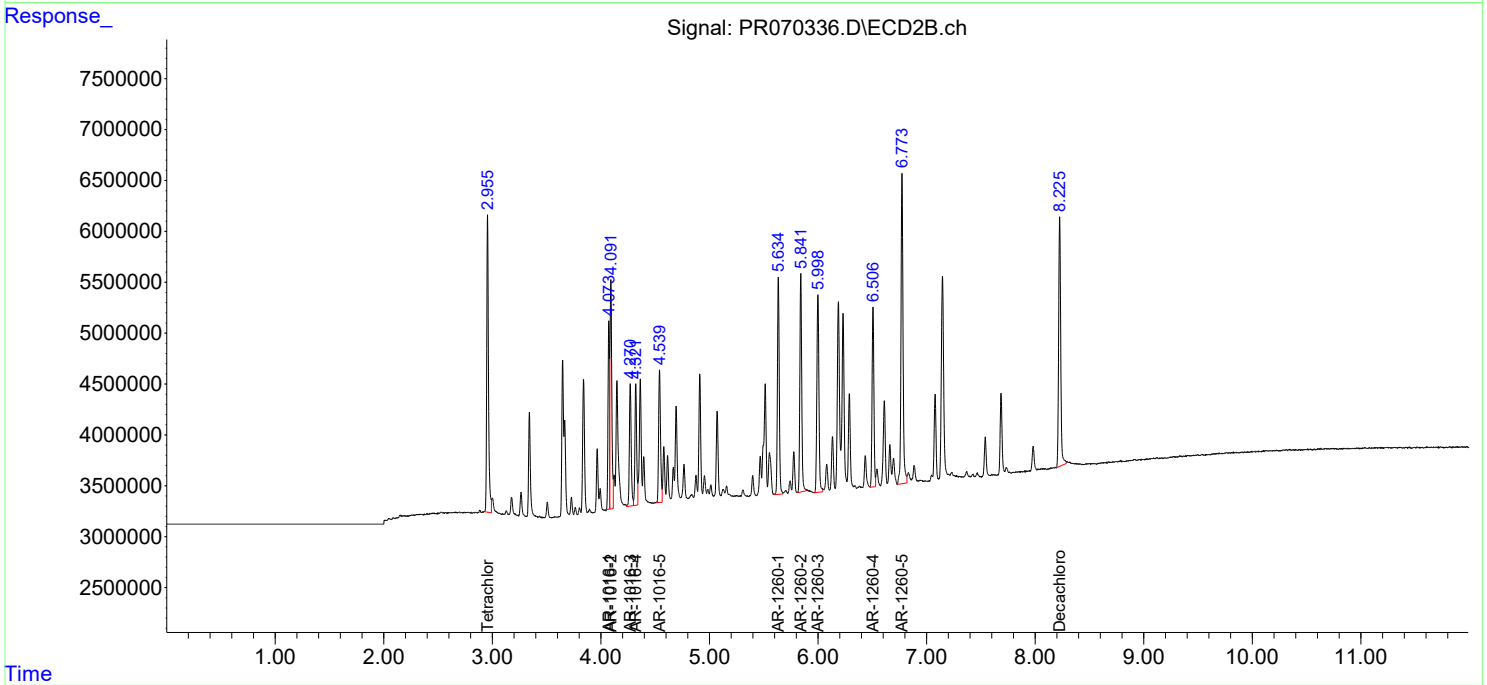
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070336.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:17
Operator : AJ\MA
Sample : AR1660ICC100
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16601238

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070337.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:32
Operator : AJ\MA
Sample : AR1660ICC200
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16602239

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	12708386	63968889	10.016	10.050
2)	SA Decachlor...	9.512	8.225	12712878	65678639	20.647	20.109
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.073	6110681	33371378	199.278	205.253
4)	L1 AR-1016-2	4.866	4.091	9940398	51197338	200.526	203.382
5)	L1 AR-1016-3	4.930	4.271	6569170	27889009	205.081	204.604
6)	L1 AR-1016-4	5.031	4.322	4984519	25761330	201.149	209.516
7)	L1 AR-1016-5	5.347	4.539	5454005	30569849	205.944	206.665
31)	L7 AR-1260-1	6.557	5.634	9727443	48615905	210.850	203.892
32)	L7 AR-1260-2	6.841	5.841	9671349	51375087	205.212	202.594
33)	L7 AR-1260-3	7.232	5.999	8244793	53033859	198.721	208.319
34)	L7 AR-1260-4	7.473	6.506	8745638	42591082	198.595	204.330
35)	L7 AR-1260-5	7.816	6.773	13213362	83495014	198.485	198.556

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

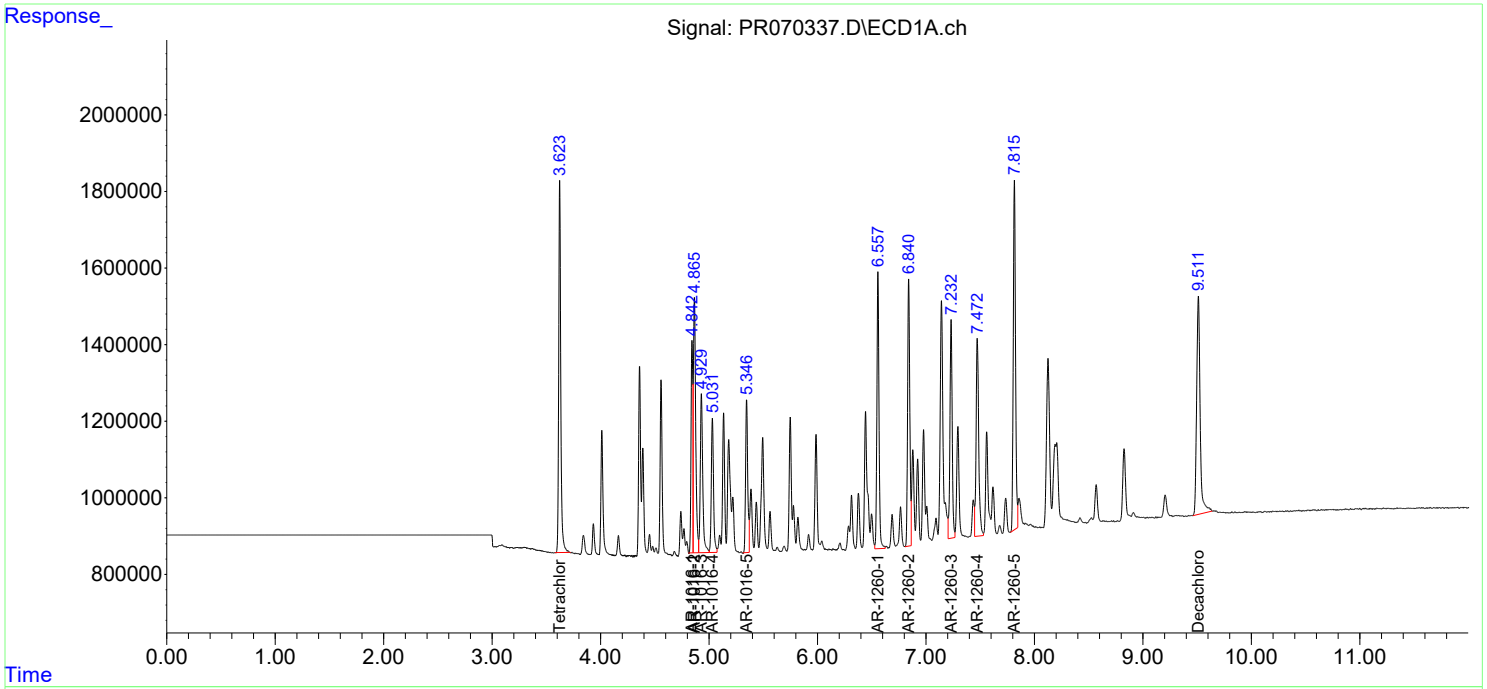
ICAL Form

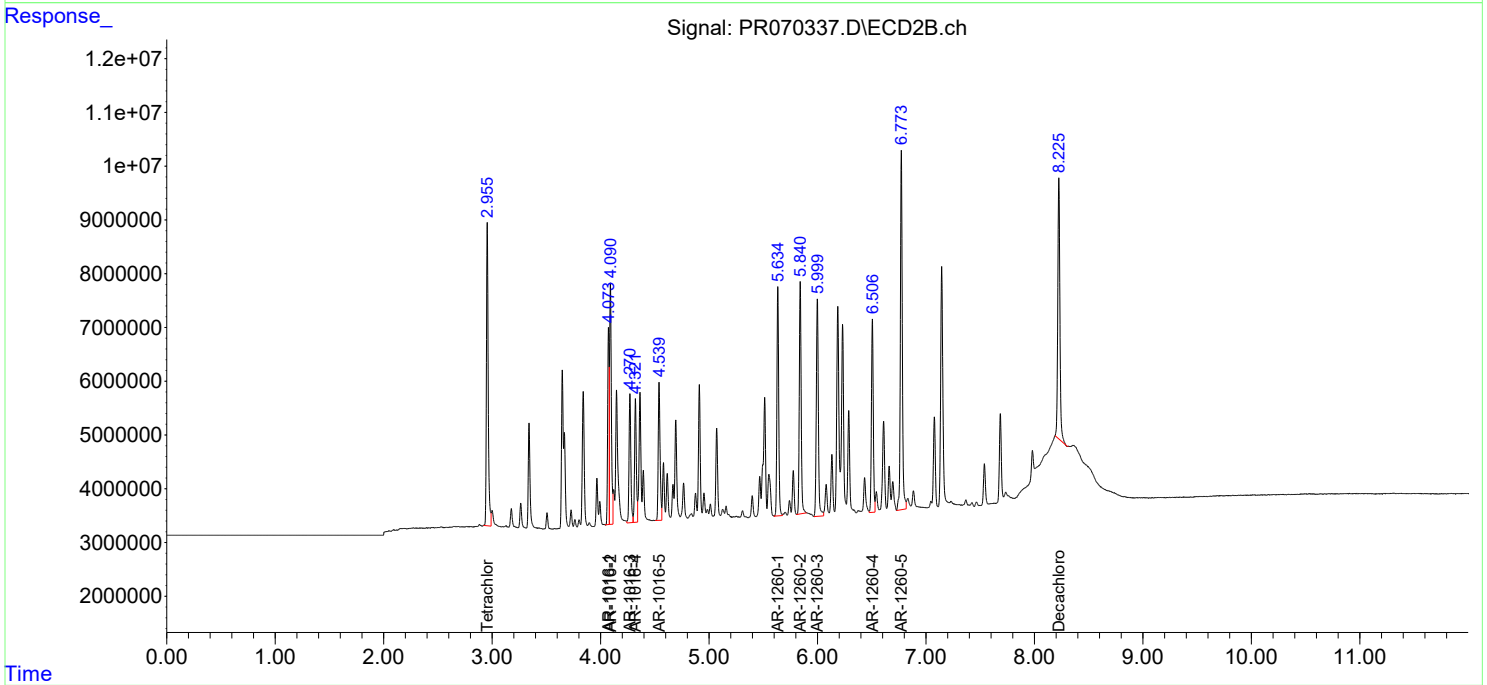
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070337.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:32
Operator : AJ\MA
Sample : AR1660ICC200
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16602239

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070338.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:47
Operator : AJ\MA
Sample : AR1660ICC400
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603240

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	25376586	127.3E6	20.000	20.000
2)	SA Decachlor...	9.511	8.226	24628968	130.6E6	40.000	40.000
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.073	12265663	65034710	400.000	400.000
4)	L1 AR-1016-2	4.865	4.091	19828603	100.7E6	400.000	400.000
5)	L1 AR-1016-3	4.929	4.271	12812845	54522768	400.000	400.000
6)	L1 AR-1016-4	5.030	4.321	9912092	49182461	400.000	400.000
7)	L1 AR-1016-5	5.345	4.539	10593200	59167979	400.000	400.000
31)	L7 AR-1260-1	6.557	5.634	18453730	95375638	400.000	400.000
32)	L7 AR-1260-2	6.841	5.841	18851452	101.4E6	400.000	400.000
33)	L7 AR-1260-3	7.232	5.999	16595729	101.8E6	400.000	400.000
34)	L7 AR-1260-4	7.476	6.506	17615030	83377016	400.000	400.000
35)	L7 AR-1260-5	7.817	6.774	26628401	168.2E6	400.000	400.000

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

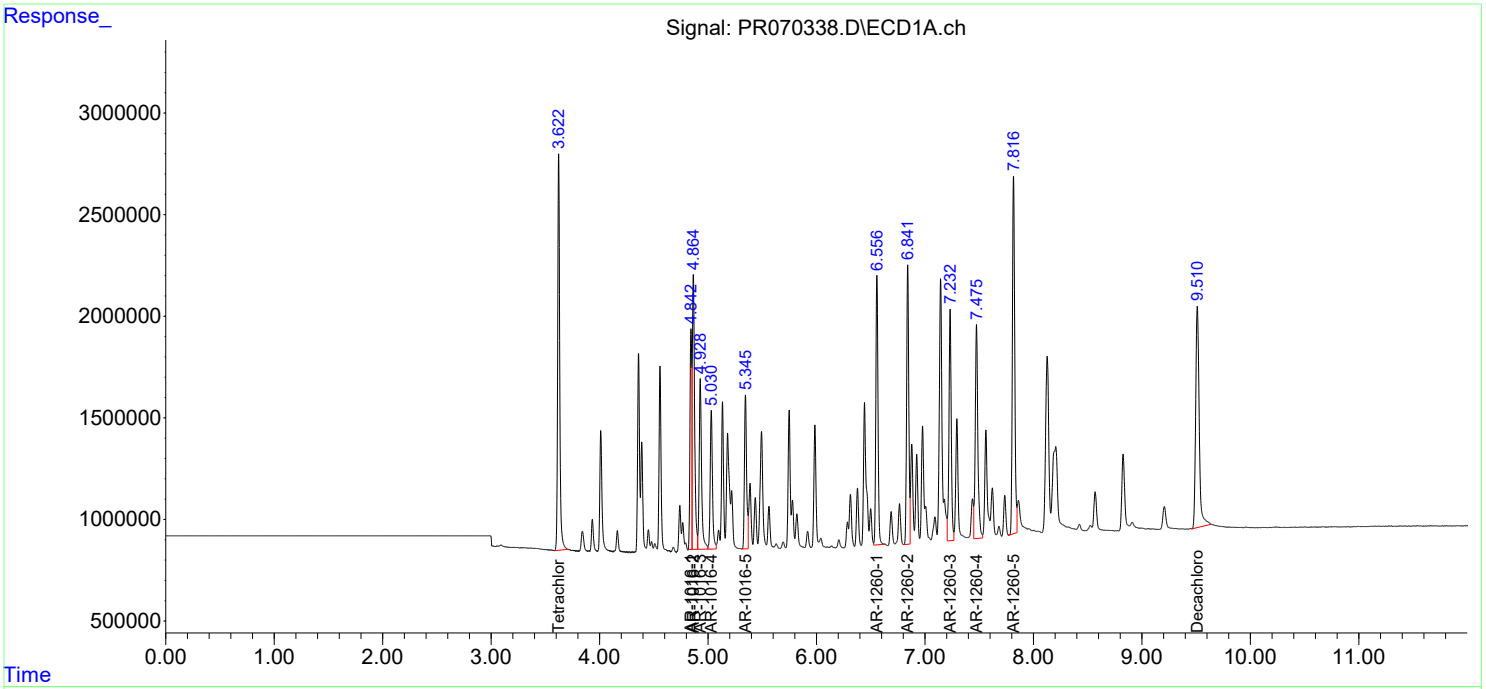
ICAL Form

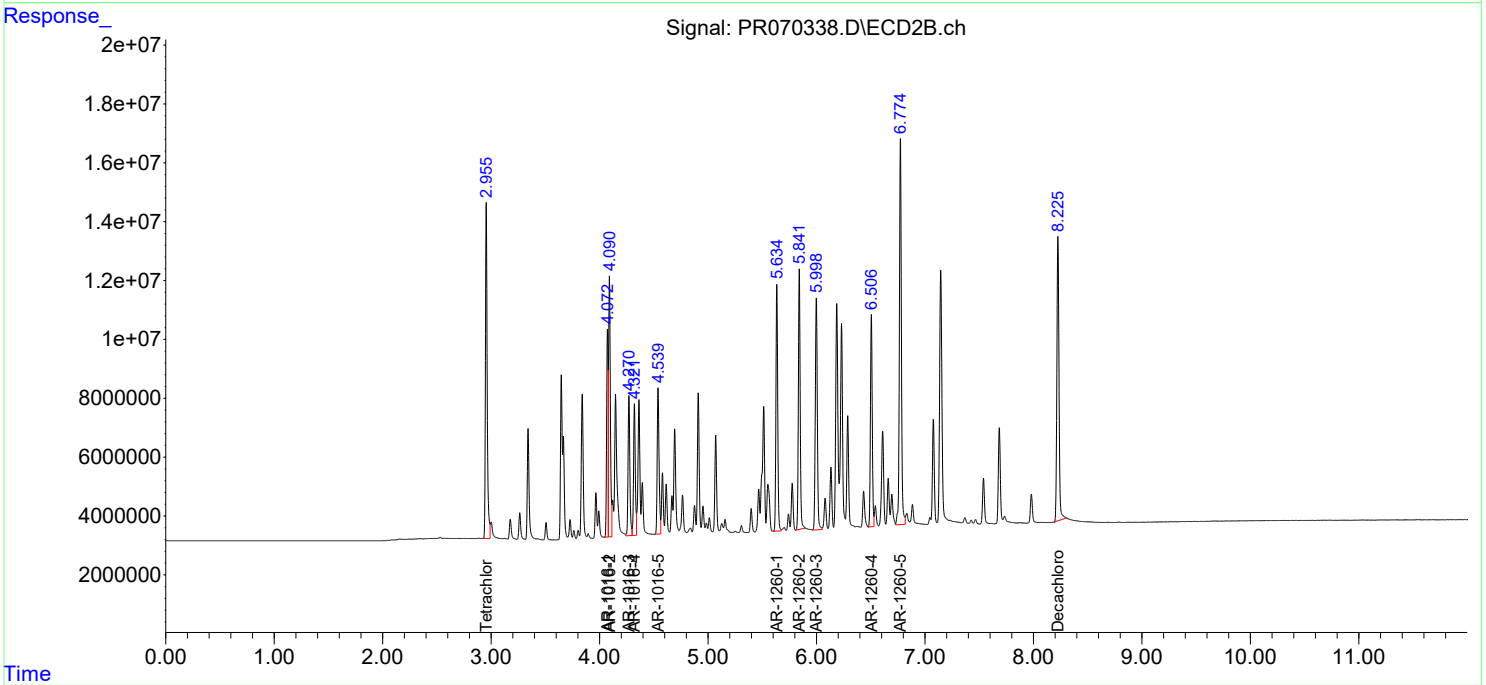
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070338.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:47
Operator : AJ\MA
Sample : AR1660ICC400
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603240

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:33 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070339.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:01
Operator : AJ\MA
Sample : AR1660ICC800
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16604241

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	49940784	246.7E6	39.360	38.765
2)	SA Decachlor...	9.511	8.226	46429824	258.5E6	75.407	79.147
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.072	23377081	125.4E6	762.358	771.530
4)	L1 AR-1016-2	4.865	4.090	38685296	194.3E6	780.394	771.720
5)	L1 AR-1016-3	4.929	4.270	24853964	104.6E6	775.908	767.301
6)	L1 AR-1016-4	5.031	4.321	19444105	92018802	784.662	748.387
7)	L1 AR-1016-5	5.346	4.539	20195152	112.8E6	762.570	762.621
31)	L7 AR-1260-1	6.558	5.635	35516600	185.7E6	769.852	778.886
32)	L7 AR-1260-2	6.841	5.840	35807276	199.5E6	759.778	786.671
33)	L7 AR-1260-3	7.232	5.999	30904382	199.4E6	744.876	783.383
34)	L7 AR-1260-4	7.475	6.506	33174006	165.4E6	753.311	793.443
35)	L7 AR-1260-5	7.816	6.773	52289800	343.1E6	785.474	816.010

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

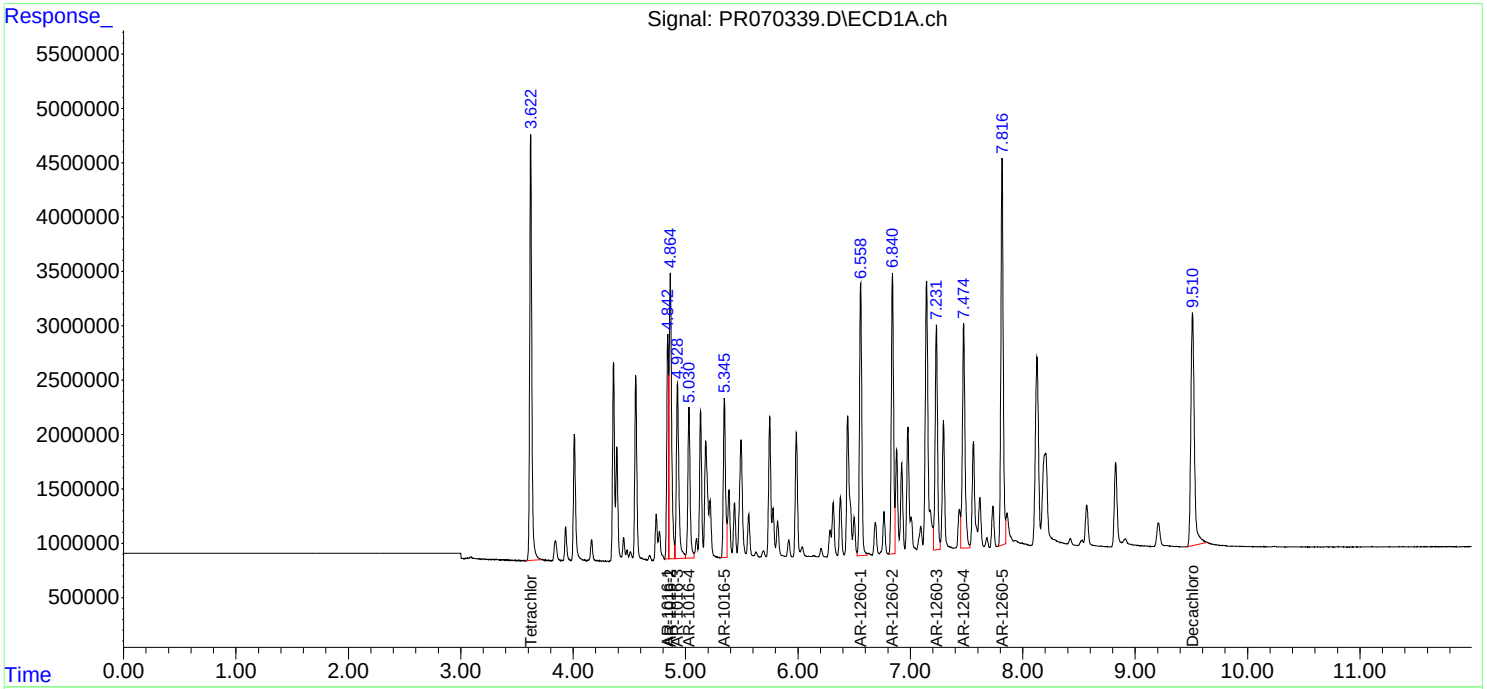
ICAL Form

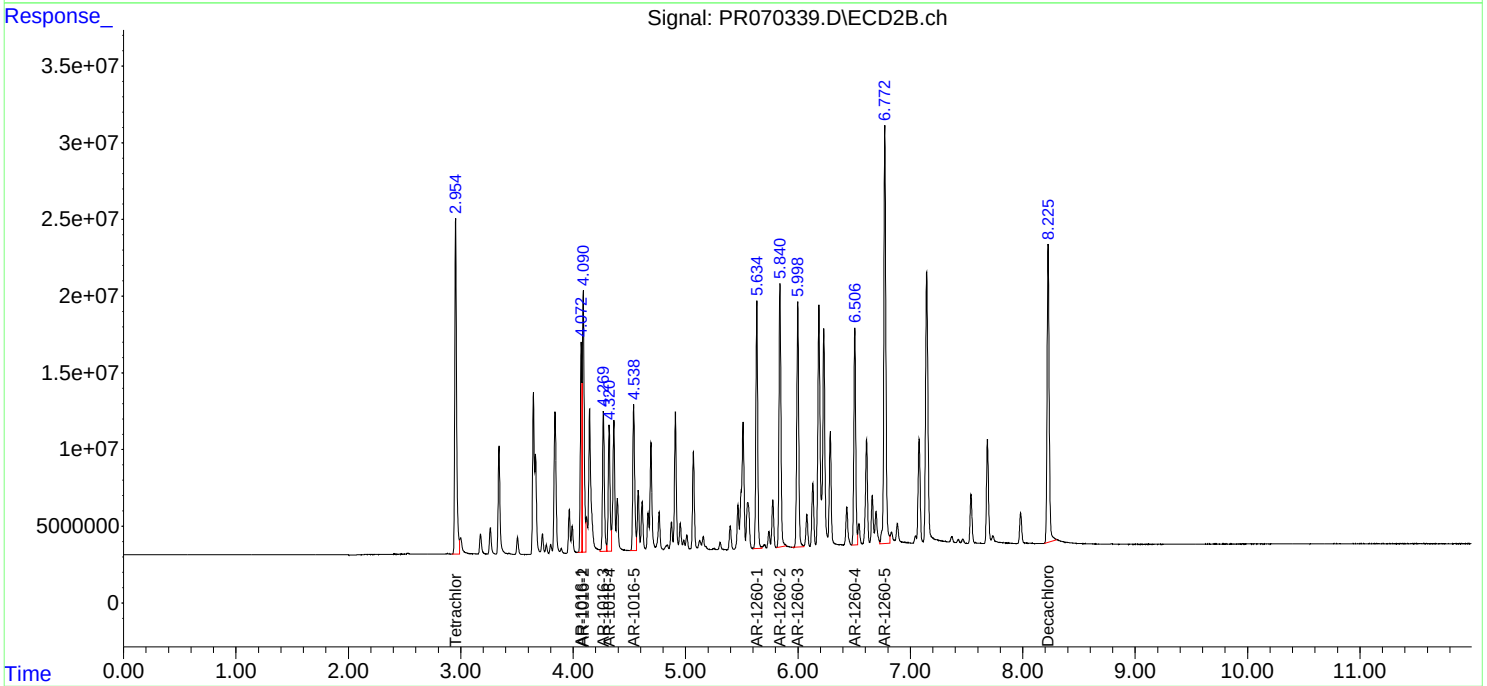
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070339.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:01
Operator : AJ\MA
Sample : AR1660ICC800
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16604241

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:42 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070340.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:16
Operator : AJ\MA
Sample : AR1660ICC1600
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16605242

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.624	2.956	96829329	475.4E6	76.314	74.684
2)	SA Decachlor...	9.509	8.223	86760471	502.4E6	140.908	153.825
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.073	43779757	234.7E6	1427.718	1443.805
4)	L1 AR-1016-2	4.865	4.091	72927615	366.6E6	1471.160	1456.402
5)	L1 AR-1016-3	4.929	4.271	45978857	196.2E6	1435.399	1439.369
6)	L1 AR-1016-4	5.031	4.321	36314927	168.8E6	1465.480	1372.895
7)	L1 AR-1016-5	5.346	4.540	37123754	210.1E6	1401.796	1420.189
31)	L7 AR-1260-1	6.558	5.634	66098661	353.5E6	1432.744	1482.736
32)	L7 AR-1260-2	6.842	5.840	67608861	385.2E6	1434.560	1519.168
33)	L7 AR-1260-3	7.232	5.999	57490480	410.3E6	1385.669	1611.715
34)	L7 AR-1260-4	7.475	6.505	62339030	322.8E6	1415.587	1548.530
35)	L7 AR-1260-5	7.815	6.773	103.9E6	687.4E6	1560.005	1634.749

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

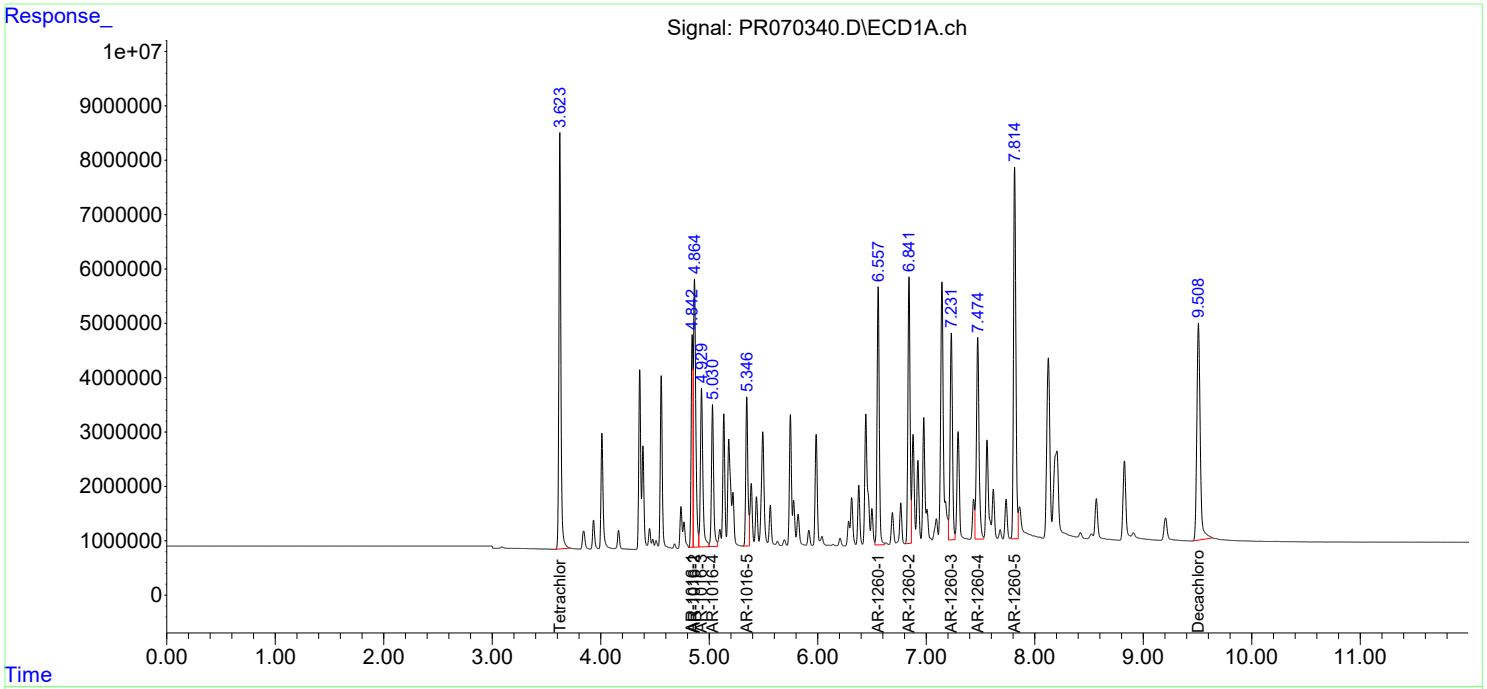
ICAL Form

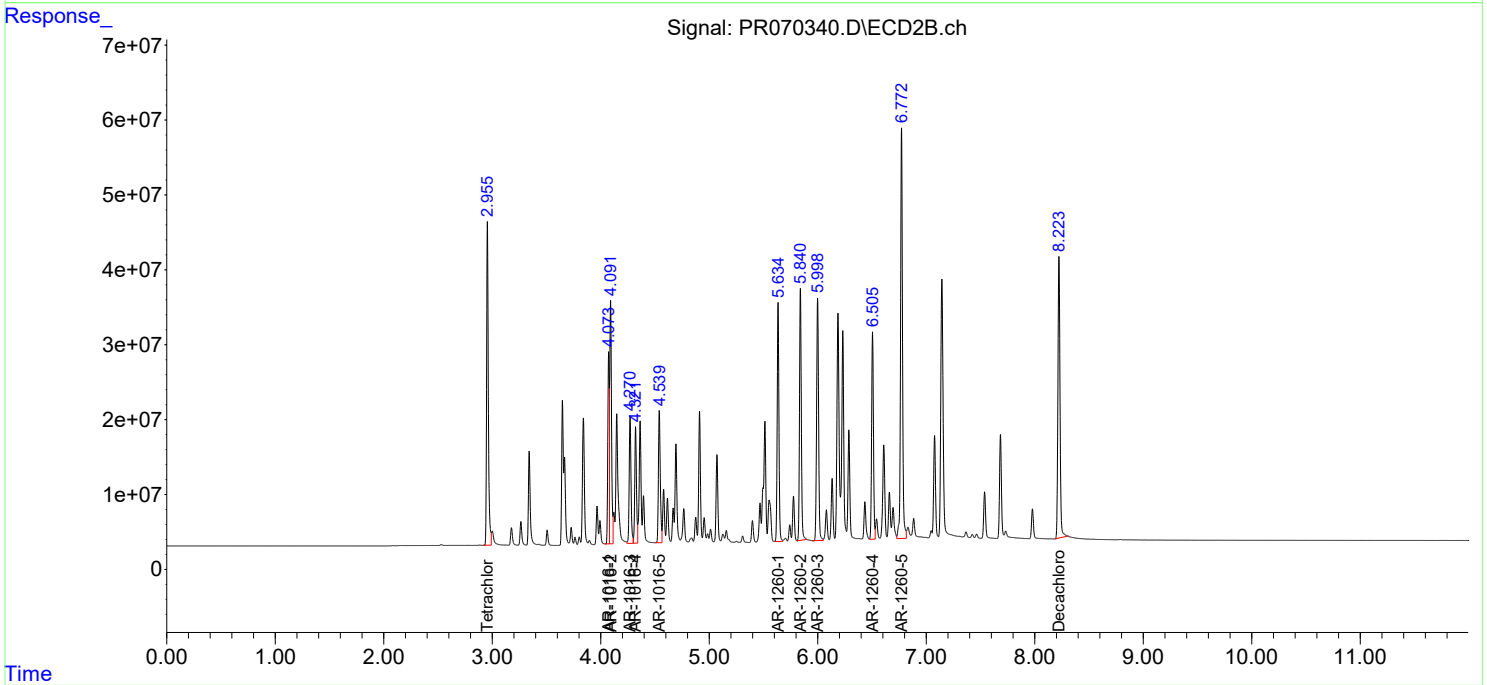
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070340.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:16
Operator : AJ\MA
Sample : AR1660ICC1600
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16605242

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 08:54:51 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 08:53:53 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:31
Operator : AJ\MA
Sample : AR1221ICC100
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12211243

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:05:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:03:35 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6488957	31986971	5.000	5.000
2)	SA Decachlor...	9.506	8.222	5983084	32490681	10.000	10.000
	Target Compounds						
8)	L2 AR-1221-1	3.845	3.178	1528371	8013154	100.000	100.000
9)	L2 AR-1221-2	3.934	3.265	1096855	5522264	100.000	100.000
10)	L2 AR-1221-3	4.012	3.341	3435544	17952057	100.000	100.000

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

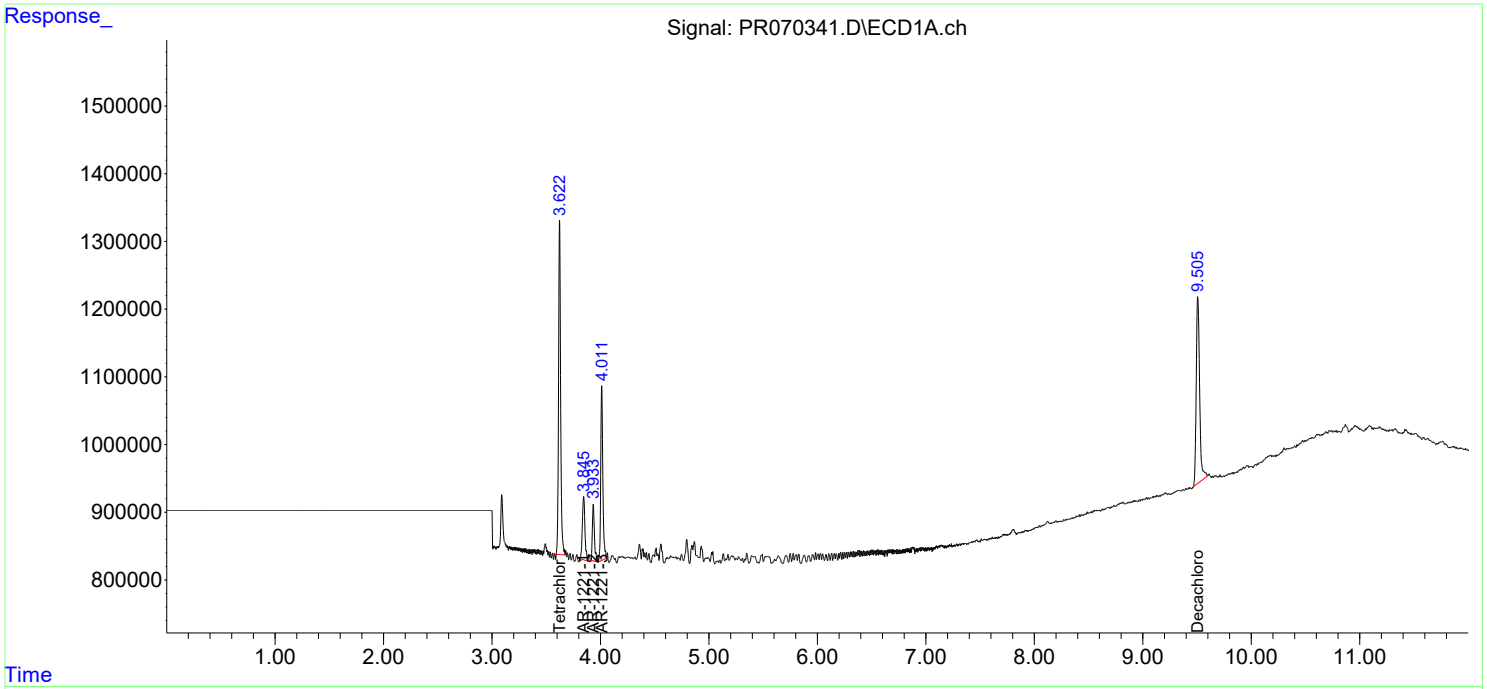
ICAL Form

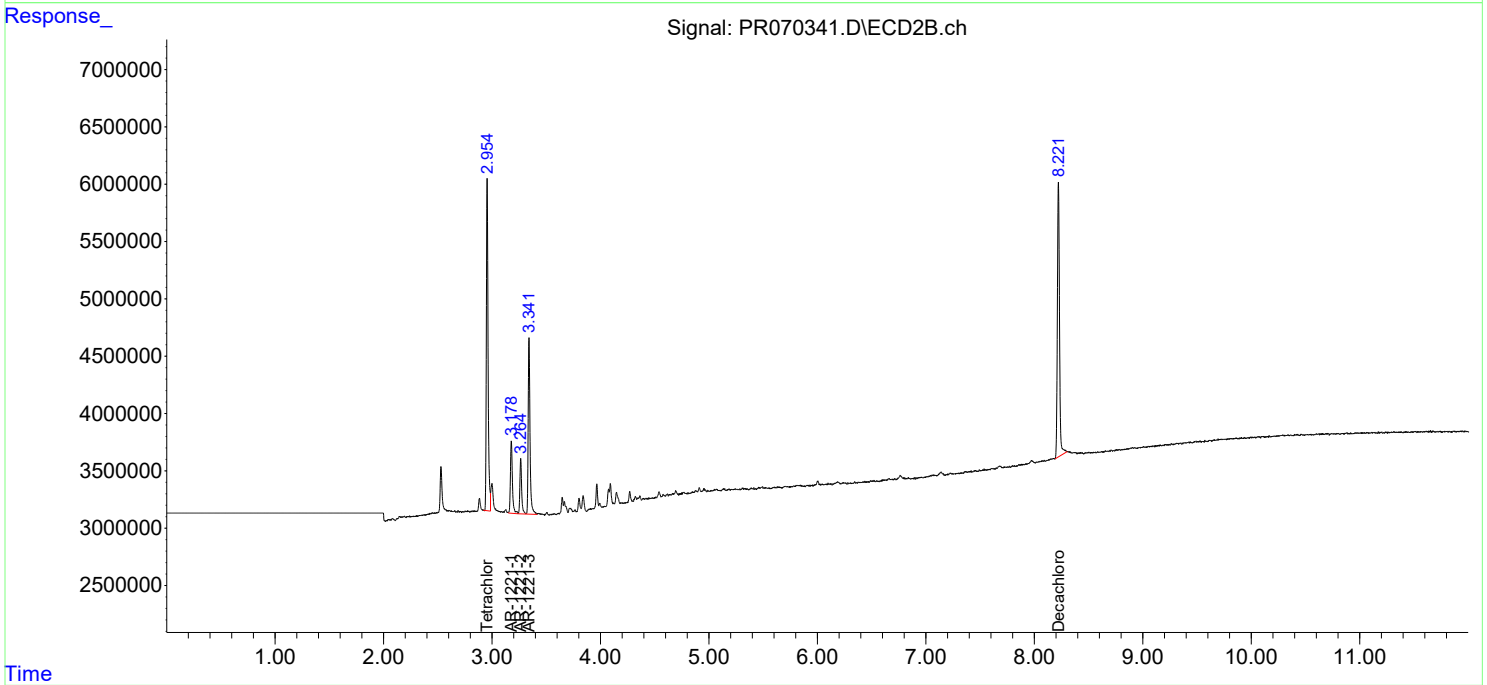
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070341.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:31
Operator : AJ\MA
Sample : AR1221ICC100
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12211243

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:05:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:03:35 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070342.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:45
Operator : AJ\MA
Sample : AR1232ICC100
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12321244

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:12:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:12:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6737431	33480958	5.000	5.000
2)	SA Decachlor...	9.509	8.223	6129696	32556803	10.000	10.000
	Target Compounds						
11)	L3 AR-1232-1	4.012	3.341	2822741	14447306	100.000	100.000
12)	L3 AR-1232-2	4.558	4.091	1482090	12367475	100.000	100.000
13)	L3 AR-1232-3	4.864	4.270	2343846	6347395	100.000	100.000
14)	L3 AR-1232-4	5.031	4.363	1163948	6163020	100.000	100.000
15)	L3 AR-1232-5	5.135	4.540	891993	6500706	100.000	100.000

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

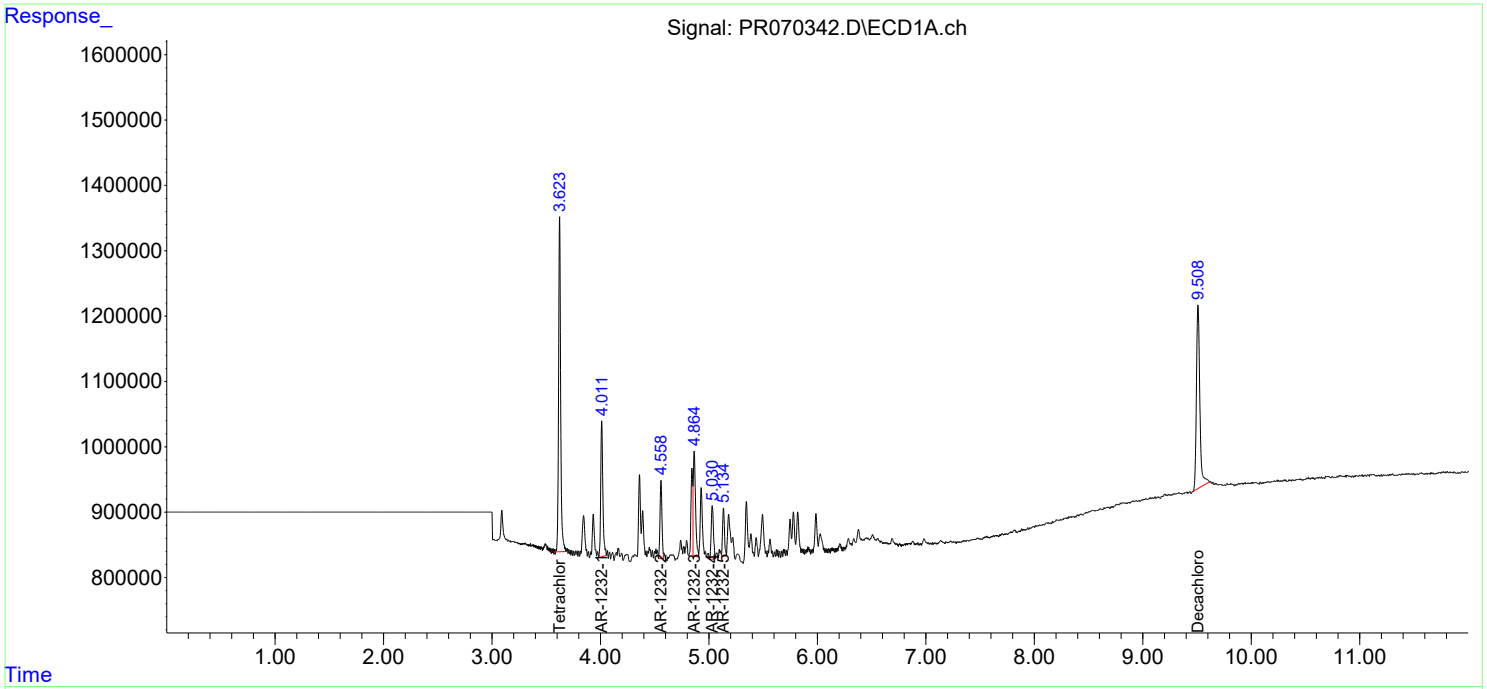
ICAL Form

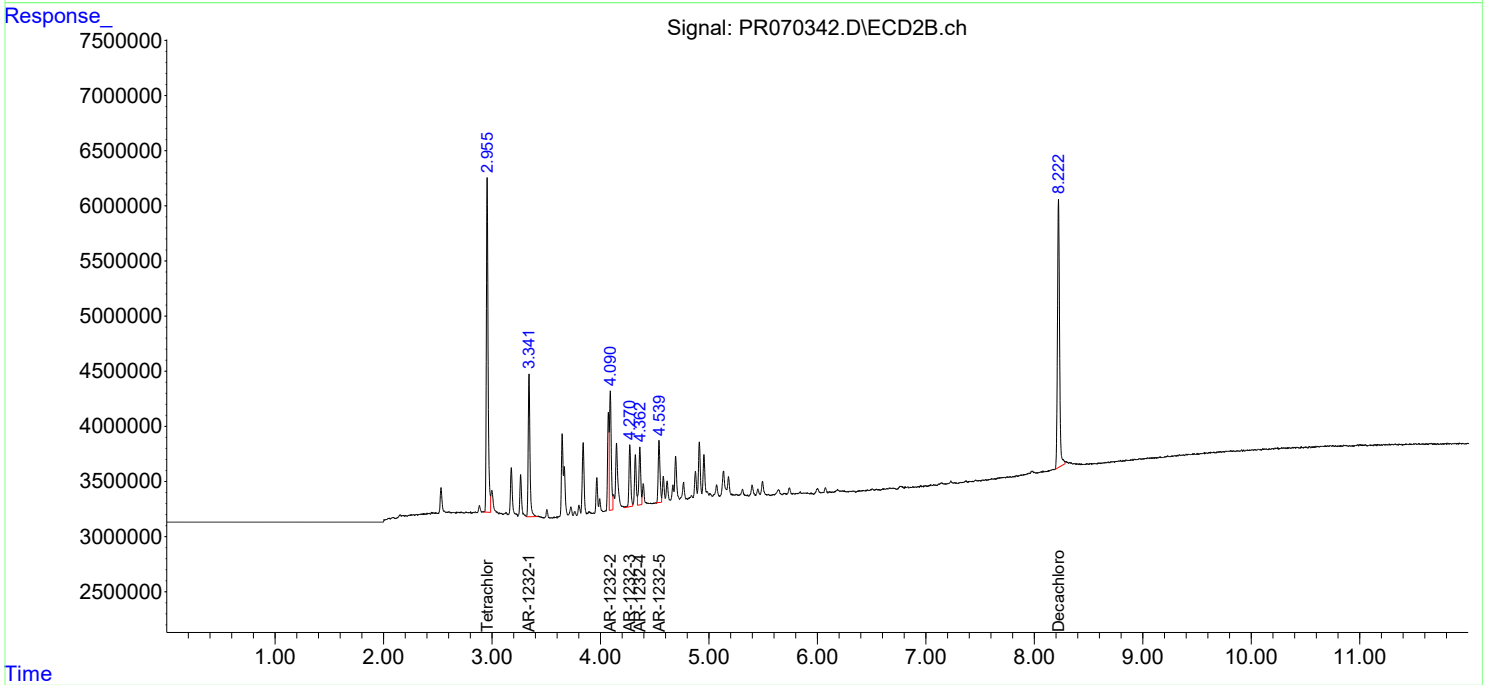
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070342.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 18:45
Operator : AJ\MA
Sample : AR1232ICC100
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12321244

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:12:36 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:12:10 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070343.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:00
Operator : AJ\MA
Sample : AR1242ICC100
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12421245

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:16:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:15:57 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6638425	34400168	5.000	5.000
2)	SA Decachlor...	9.511	8.226	6069054	32715620	10.000	10.000
	Target Compounds						
16)	L4 AR-1242-1	4.843	4.073	2790583	14913211	100.000	100.000
17)	L4 AR-1242-2	4.865	4.091	4370358	22478099	100.000	100.000
18)	L4 AR-1242-3	4.930	4.271	2862848	12040669	100.000	100.000
19)	L4 AR-1242-4	5.030	4.363	2260115	12946383	100.000	100.000
20)	L4 AR-1242-5	5.818	4.911	1784877	13008834	100.000	100.000

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

Quantitation Report (QT Reviewed)

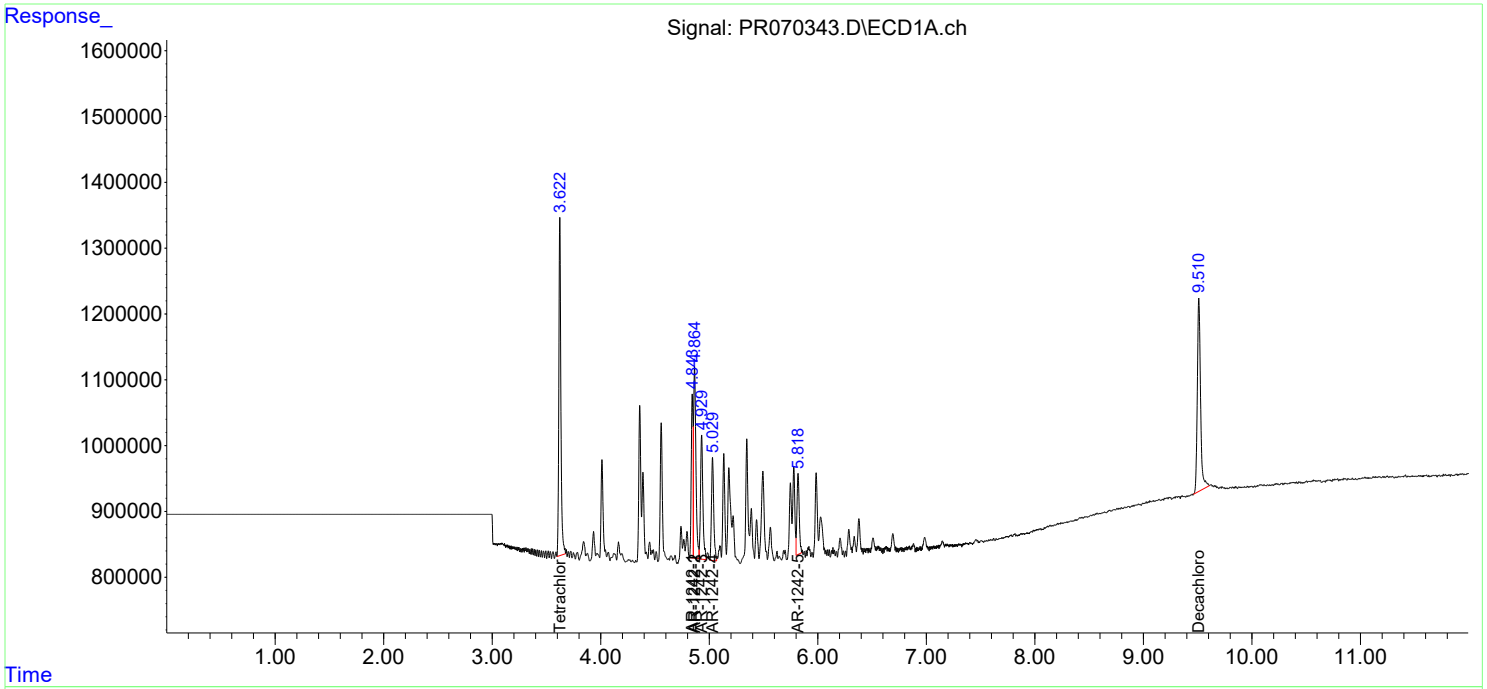
ICAL Form

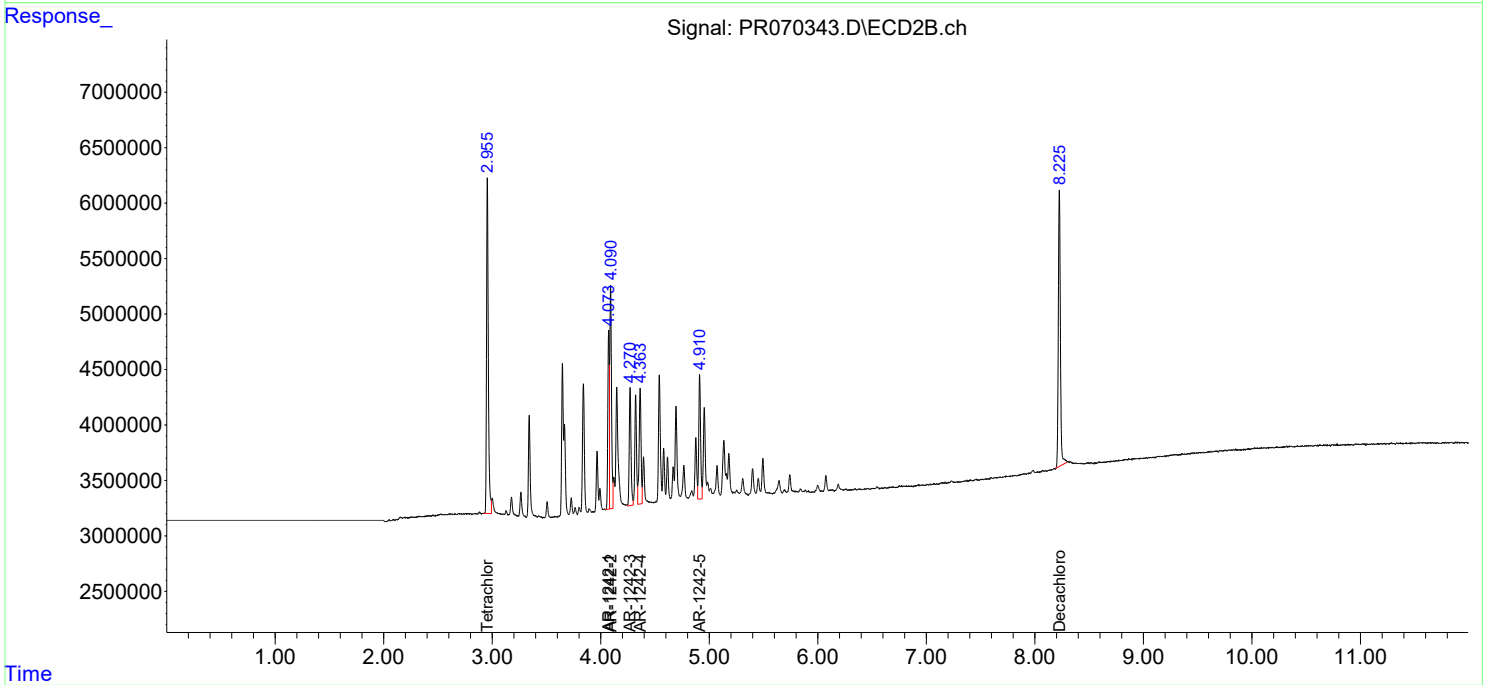
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070343.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:00
Operator : AJ\MA
Sample : AR1242ICC100
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12421245

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:16:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:15:57 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070344.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:15
Operator : AJ\MA
Sample : AR1248ICC100
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12481246

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:25:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:24:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6402267	36025062	5.000	5.000
2)	SA Decachlor...	9.512	8.226	5709573	33179384	10.000	10.000
	Target Compounds						
21)	L5 AR-1248-1	4.844	4.073	2136629	11398069	100.000	100.000
22)	L5 AR-1248-2	5.134	4.321	3616393	19209306	100.000	100.000
23)	L5 AR-1248-3	5.346	4.363	4206008	19086116	100.000	100.000
24)	L5 AR-1248-4	5.779	4.540	3225765	22170538	100.000	100.000
25)	L5 AR-1248-5	5.819	4.954	3273669	15941194	100.000	100.000

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

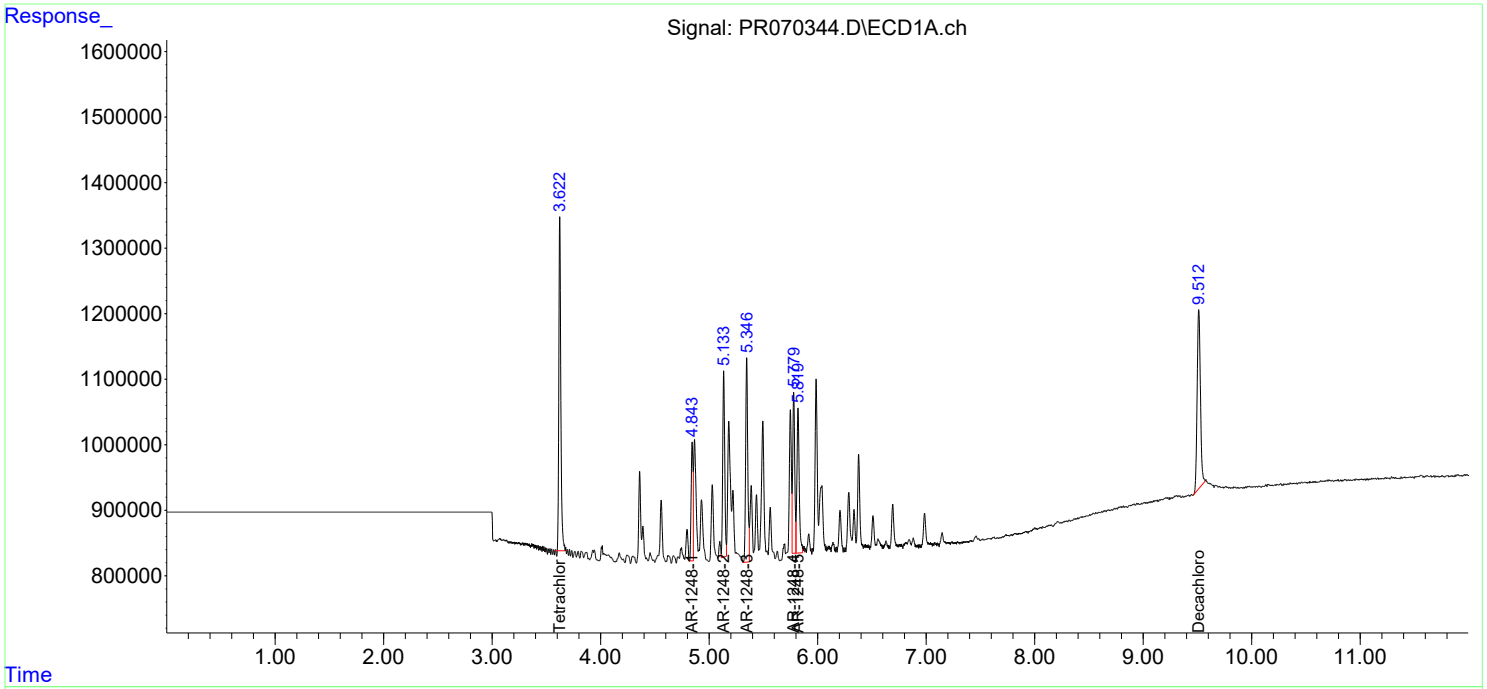
ICAL Form

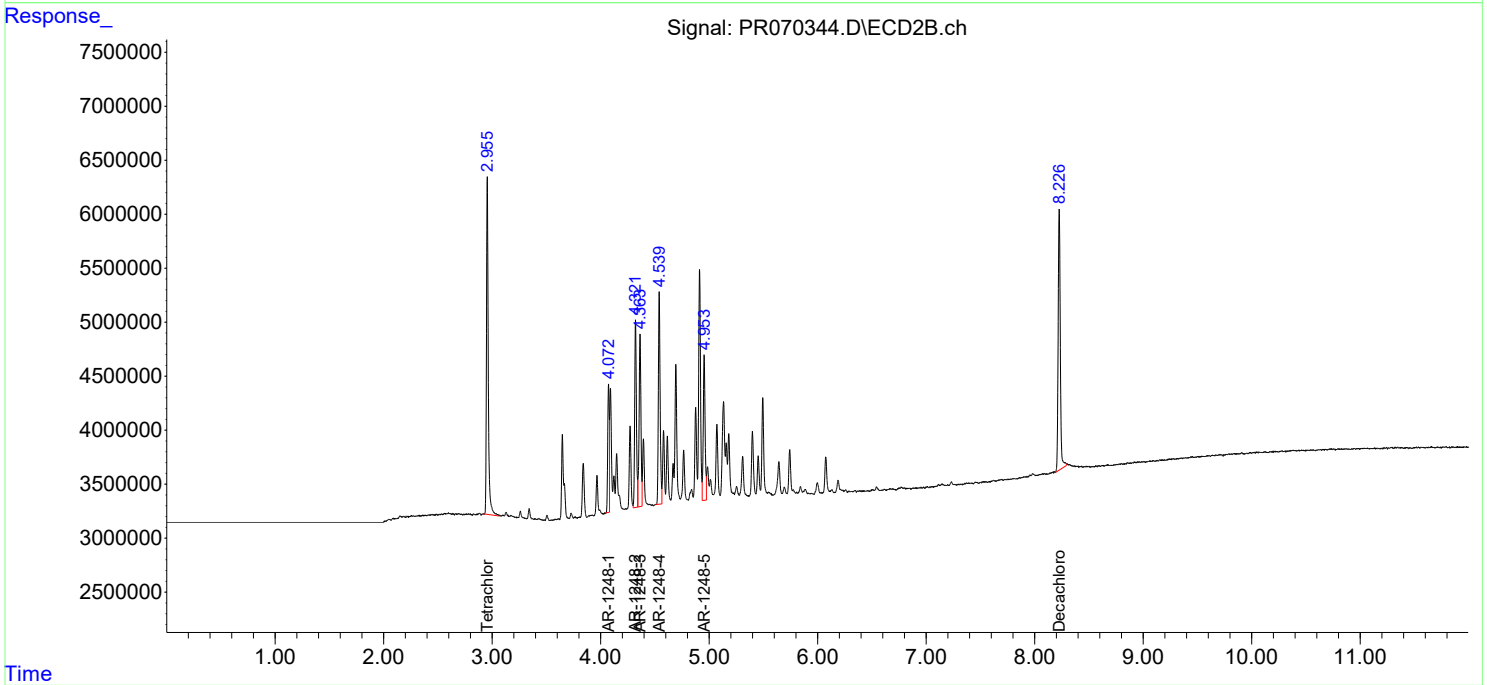
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070344.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:15
Operator : AJ\MA
Sample : AR1248ICC100
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12481246

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:25:32 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:24:21 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:29
Operator : AJ\MA
Sample : AR1254ICC100
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12541247

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:27:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:27:35 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6323011	33918273	5.000	5.000
2)	SA Decachlor...	9.511	8.225	6037165	32820096	10.000	10.000
	Target Compounds						
26)	L6 AR-1254-1	5.749	4.910	4540822	29978091	100.000	100.000
27)	L6 AR-1254-2	5.986	5.071	6602291	25918522	100.000	100.000
28)	L6 AR-1254-3	6.379	5.494	6039906	34731586	100.000	100.000
29)	L6 AR-1254-4	6.691	5.742	3233026	14976344	100.000	100.000
30)	L6 AR-1254-5	7.147	6.187	3679780	26994973	100.000	100.000

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

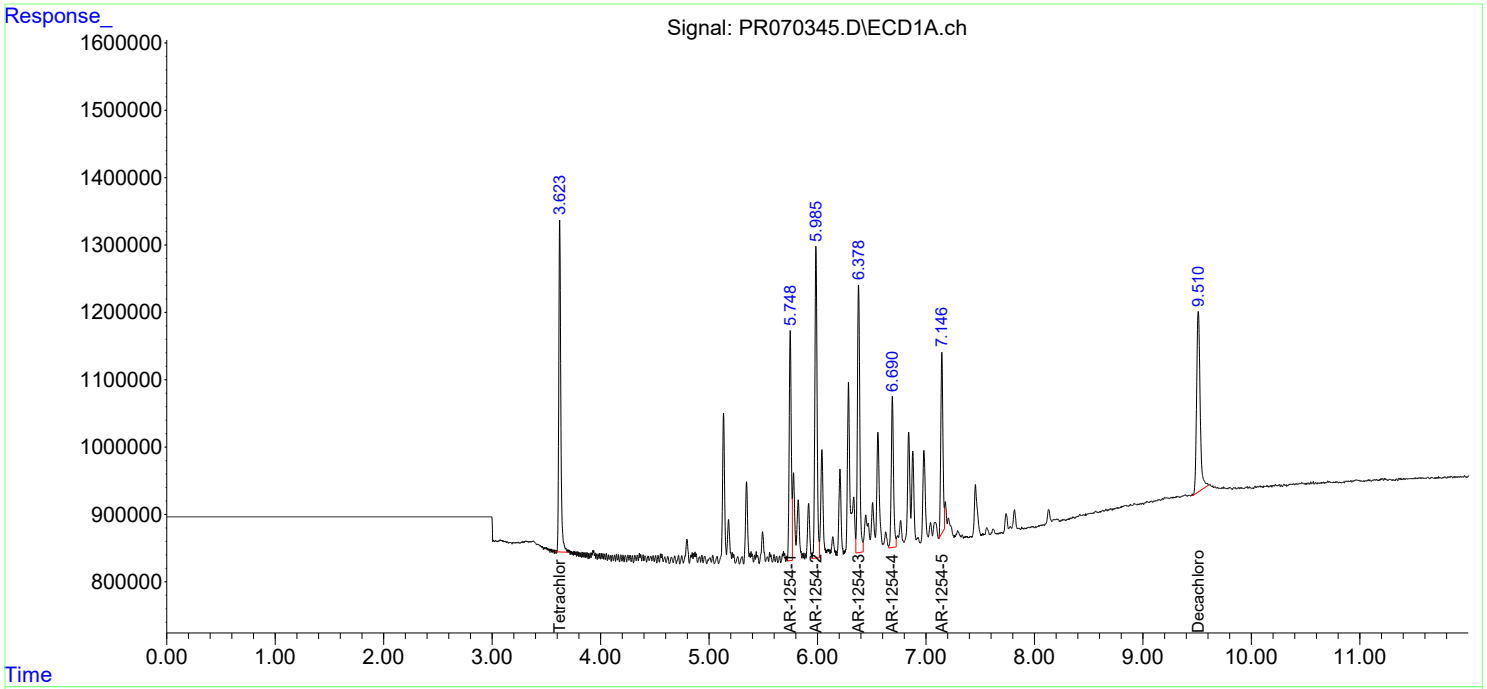
ICAL Form

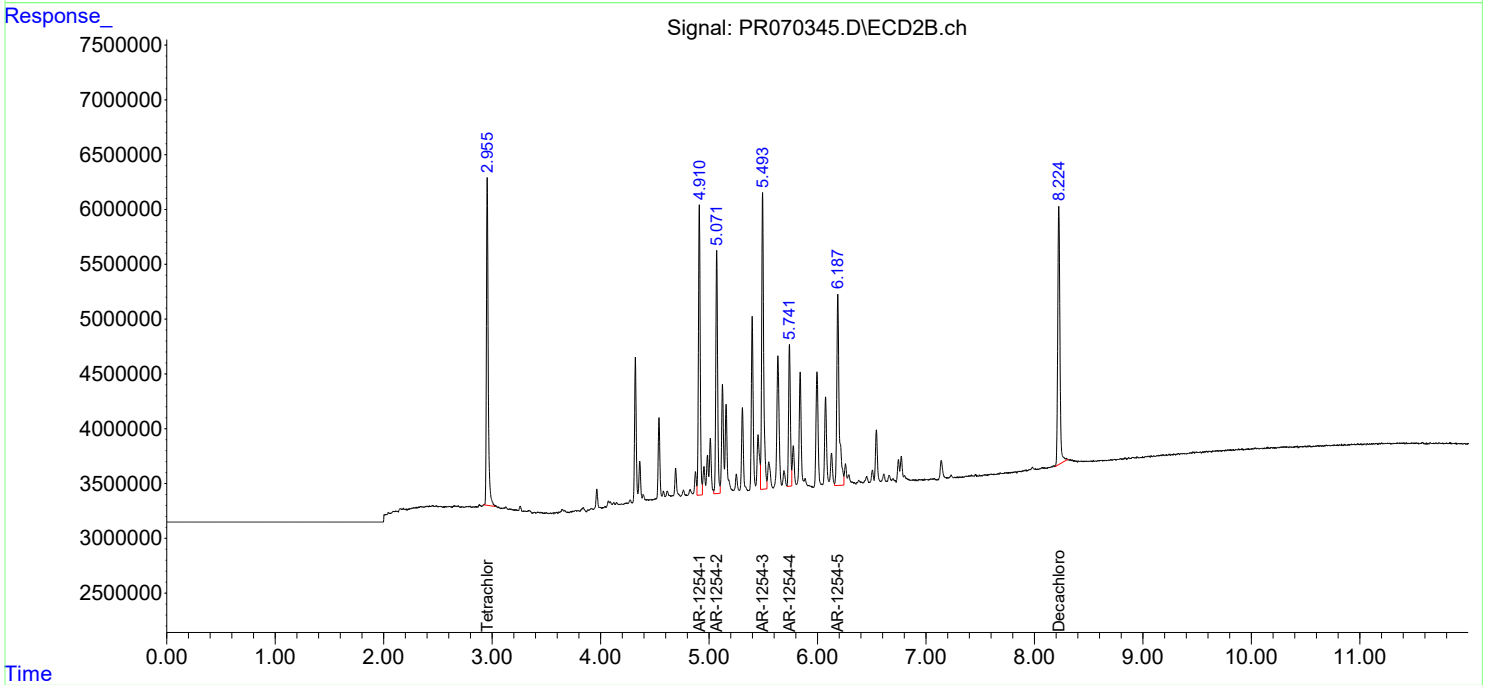
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070345.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:29
Operator : AJ\MA
Sample : AR1254ICC100
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12541247

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:27:57 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:27:35 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070346.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:44
Operator : AJ\MA
Sample : AR1262ICC100
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12621248

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:31:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:30:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	6371584	35149852	5.000	5.000
2)	SA Decachlor...	9.510	8.224	6563396	35312420	10.000	10.000
	Target Compounds						
36)	L8 AR-1262-1	7.231	6.231	6198365	33800106	100.000	100.000
37)	L8 AR-1262-2	7.816	6.773	7708171	47987764	100.000	100.000
38)	L8 AR-1262-3	8.122	7.077	5810352	21079751	100.000	100.000
39)	L8 AR-1262-4	8.206	7.146	4809879	36795603	100.000	100.000
40)	L8 AR-1262-5	8.826	7.685	2232001	14537677	100.000	100.000

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

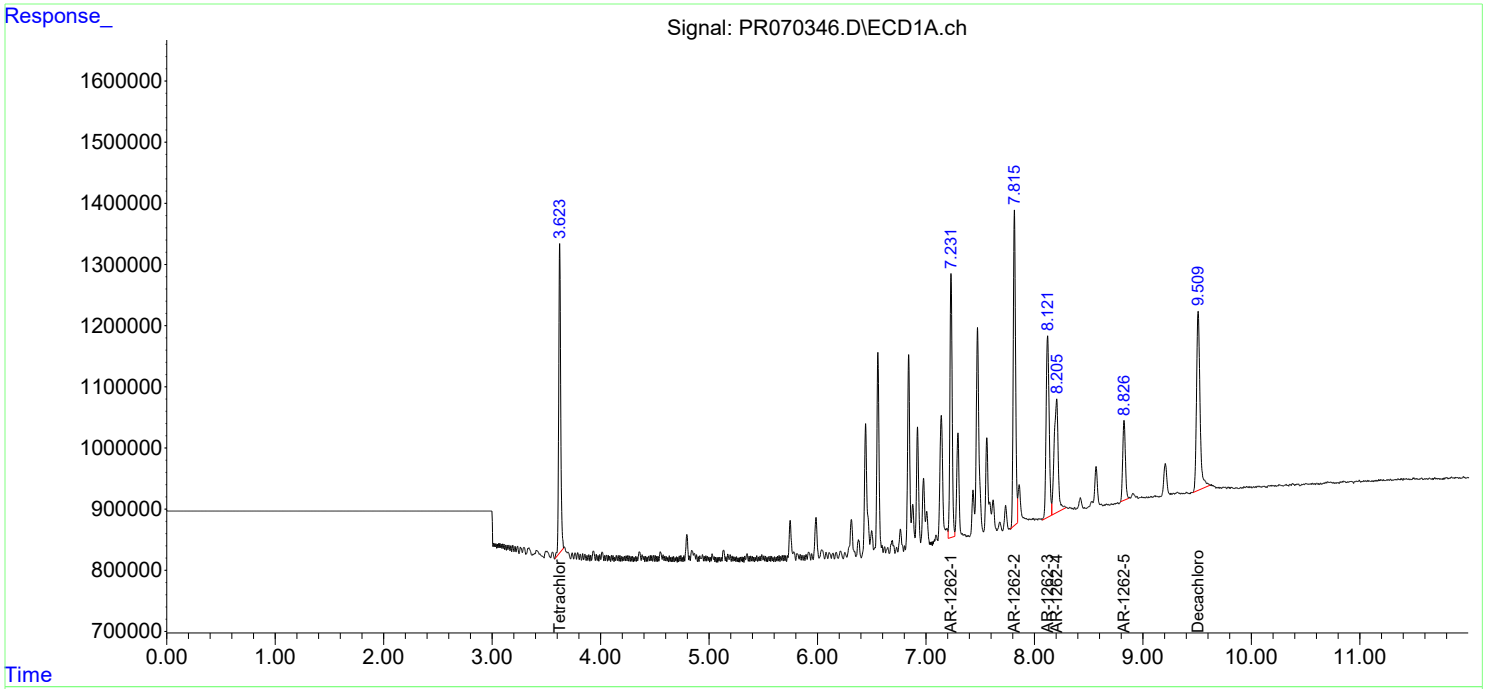
ICAL Form

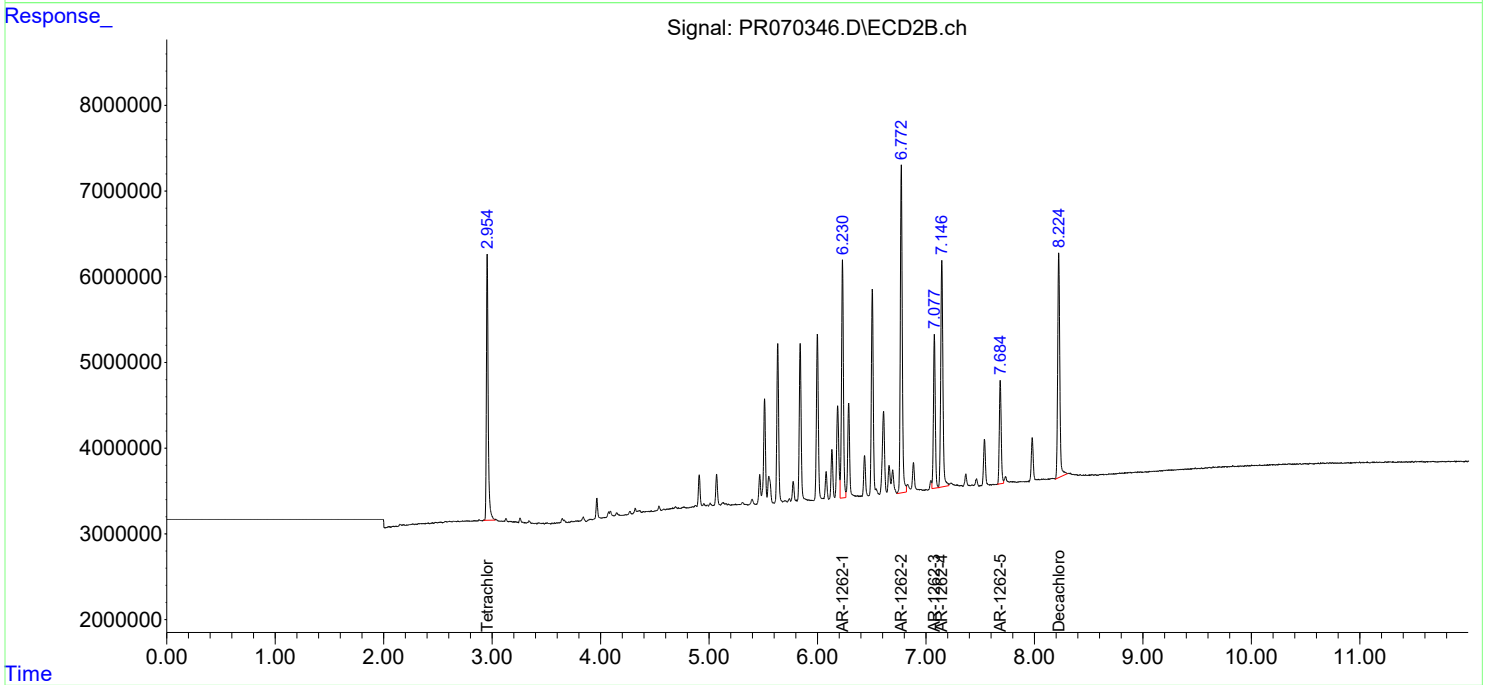
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070346.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:44
Operator : AJ\MA
Sample : AR1262ICC100
Misc :
ALS Vial : 33 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12621248

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:31:14 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:30:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070347.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:59
Operator : AJ\MA
Sample : AR1268ICC100
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12681249

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:33:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:30:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.624	2.955	6691275	36029235	5.251	5.125
2)	SA Decachlor...	9.510	8.225	12117507	66113365	18.462	18.722
	Target Compounds						

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

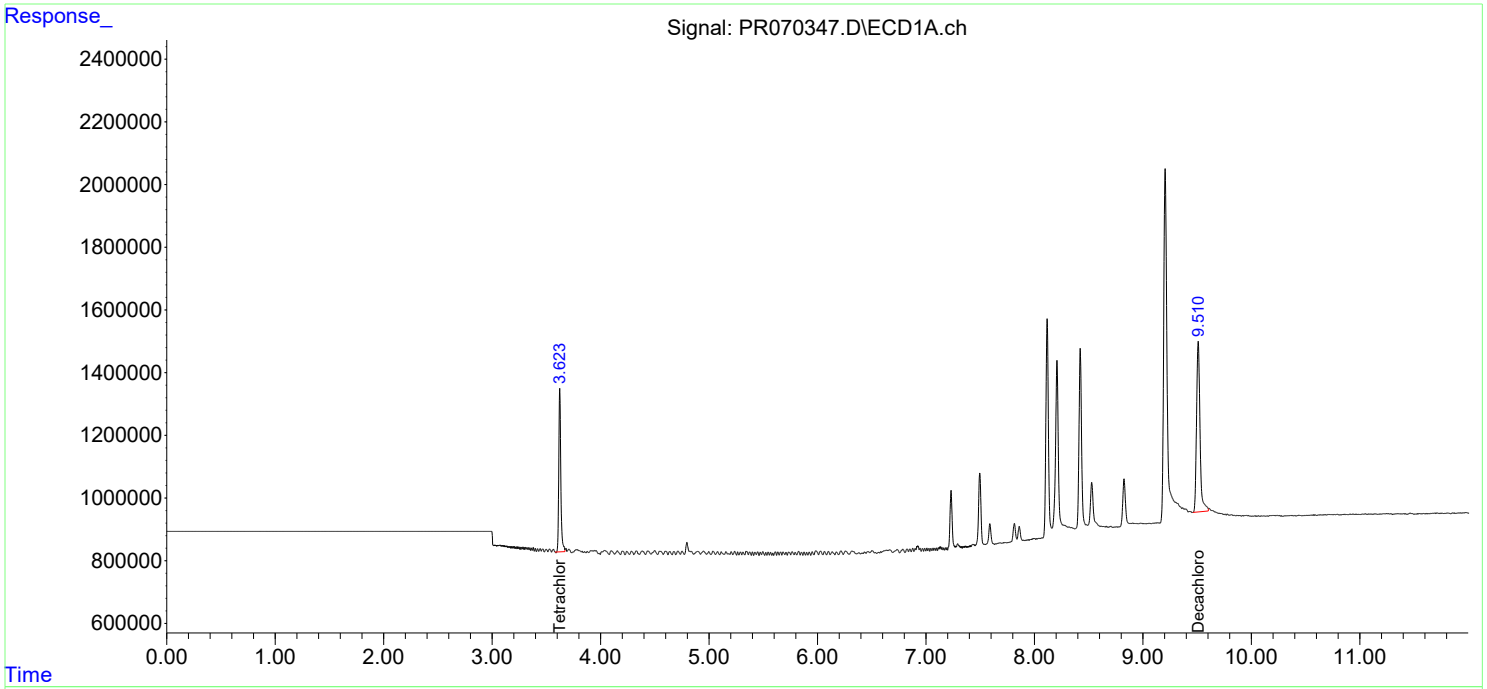
ICAL Form

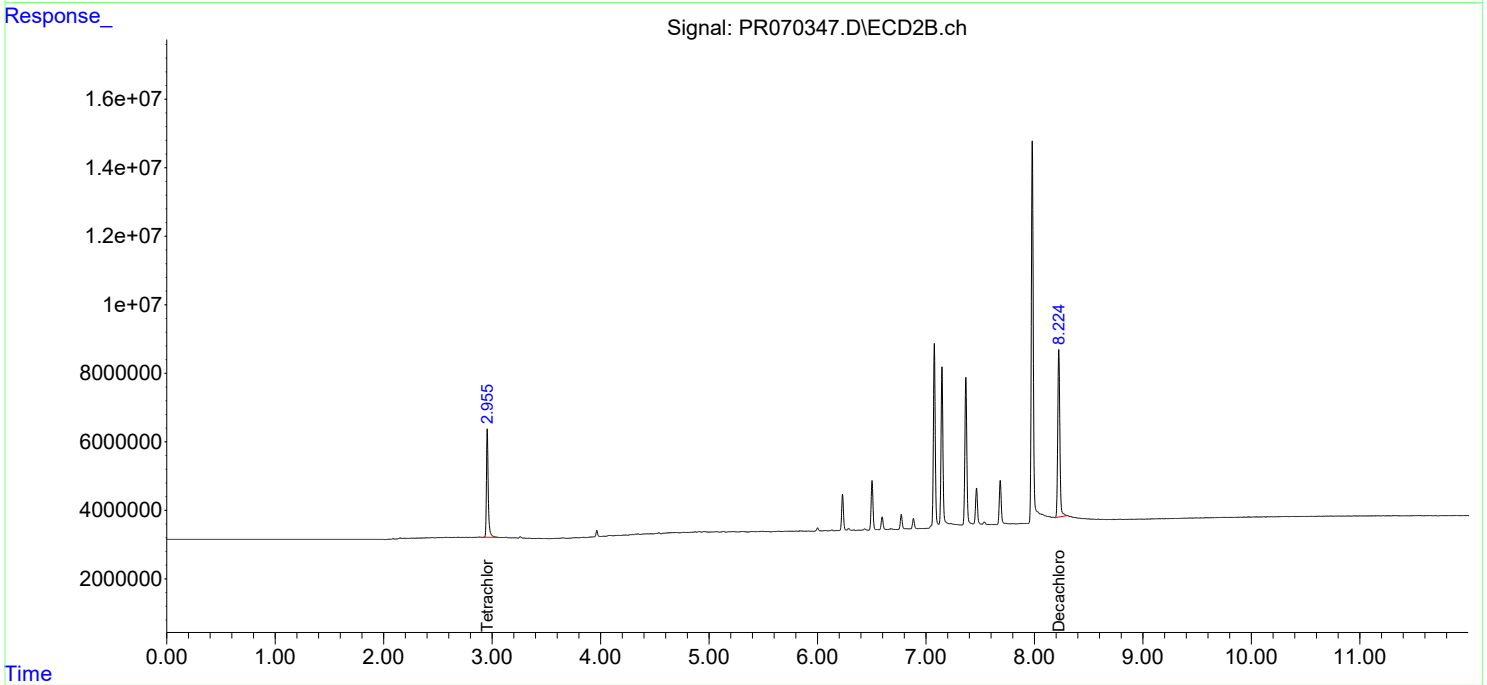
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070347.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 19:59
Operator : AJ\MA
Sample : AR1268ICC100
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR12681249

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:33:27 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:30:55 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PR070349.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Continuing Calib Date: 02/24/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 17:17 19:59

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	TO	DIFF RT
Aroclor-1016-1	(1)	4.84	4.84	4.77	4.91	0.00
Aroclor-1016-2	(2)	4.87	4.87	4.80	4.94	0.01
Aroclor-1016-3	(3)	4.93	4.93	4.86	5.00	0.00
Aroclor-1016-4	(4)	5.03	5.03	4.96	5.10	0.00
Aroclor-1016-5	(5)	5.35	5.35	5.28	5.42	0.00
Aroclor-1260-1	(1)	6.56	6.56	6.49	6.63	0.00
Aroclor-1260-2	(2)	6.84	6.84	6.77	6.91	0.00
Aroclor-1260-3	(3)	7.23	7.23	7.16	7.30	0.00
Aroclor-1260-4	(4)	7.47	7.48	7.41	7.55	0.01
Aroclor-1260-5	(5)	7.82	7.82	7.75	7.89	0.00
TCX		3.62	3.62	3.57	3.67	0.00
DCB		9.51	9.51	9.41	9.61	0.00

Raw Data: **PR070349.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Continuing Calib Date: 02/24/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 20:28 **Initial Calibration Time(s):** 17:17 19:59

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.07	4.07	4.00	4.14	0.00
Aroclor-1016-2	(2)	4.09	4.09	4.02	4.16	0.00
Aroclor-1016-3	(3)	4.27	4.27	4.20	4.34	0.00
Aroclor-1016-4	(4)	4.32	4.32	4.25	4.39	0.00
Aroclor-1016-5	(5)	4.54	4.54	4.47	4.61	0.00
Aroclor-1260-1	(1)	5.63	5.63	5.56	5.70	0.00
Aroclor-1260-2	(2)	5.84	5.84	5.77	5.91	0.00
Aroclor-1260-3	(3)	6.00	6.00	5.93	6.07	0.00
Aroclor-1260-4	(4)	6.51	6.51	6.44	6.58	0.00
Aroclor-1260-5	(5)	6.77	6.77	6.70	6.84	0.00
TCX		2.96	2.96	2.91	3.01	0.01
DCB		8.22	8.23	8.13	8.33	0.01

Raw Data: **PR070349.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/24/2025

Lab Sample No.: AR1660CCC400 **Data File :** PR070349.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.843	4.743	4.943	29693480.000	28497100.000	-4.0
Aroclor-1016-2	4.865	4.765	4.965	48477110.000	45379700.000	-6.4
Aroclor-1016-3	4.929	4.829	5.029	31336600.000	29684900.000	-5.3
Aroclor-1016-4	5.031	4.930	5.130	24345700.000	22892600.000	-6.0
Aroclor-1016-5	5.346	5.245	5.445	26148880.000	24478200.000	-6.4
Aroclor-1260-1	6.558	6.457	6.657	46086410.000	43307900.000	-6.0
Aroclor-1260-2	6.841	6.741	6.941	46325500.000	42759200.000	-7.7
Aroclor-1260-3	7.232	7.132	7.332	39782920.000	37351000.000	-6.1
Aroclor-1260-4	7.474	7.376	7.576	42468210.000	39500900.000	-7.0
Aroclor-1260-5	7.815	7.717	7.917	65645630.000	60033900.000	-8.5
DCB	9.511	9.411	9.611	597291800.000	553051000.000	-7.4
TCX	3.623	3.523	3.723	1259296000.000	1182630000.000	-6.1

Raw Data: **PR070349.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL01 **Date Analyzed:** 02/24/2025

Lab Sample No.: AR1660CCC400 **Data File :** PR070349.D **Time Analyzed:** 20:28

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.073	3.973	4.173	160311700.000	153728000.000	-4.1
Aroclor-1016-2	4.090	3.991	4.191	248437200.000	234008000.000	-5.8
Aroclor-1016-3	4.270	4.171	4.371	134062100.000	126748000.000	-5.5
Aroclor-1016-4	4.320	4.221	4.421	120912200.000	114536000.000	-5.3
Aroclor-1016-5	4.539	4.439	4.639	146431000.000	139062000.000	-5.0
Aroclor-1260-1	5.633	5.534	5.734	236629100.000	221787000.000	-6.3
Aroclor-1260-2	5.840	5.741	5.941	251132000.000	234789000.000	-6.5
Aroclor-1260-3	5.998	5.899	6.099	256654200.000	234309000.000	-8.7
Aroclor-1260-4	6.505	6.406	6.606	207477000.000	192391000.000	-7.3
Aroclor-1260-5	6.772	6.674	6.874	418556100.000	390070000.000	-6.8
DCB	8.224	8.126	8.326	3231215000.000	2979030000.000	-7.8
TCX	2.955	2.855	3.055	6283122000.000	5936920000.000	-5.5

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070349.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:28
Operator : AJ\MA
Sample : AR1660CCC400
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603339

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	23652660	118.7E6	18.782	18.898
2)	SA Decachlor...	9.511	8.224	22122023	119.2E6	37.037	36.878
	Target Compounds						
3)	L1 AR-1016-1	4.843	4.073	11398846	61491086	383.884	383.572
4)	L1 AR-1016-2	4.865	4.090	18151888	93603236	374.442	376.768
5)	L1 AR-1016-3	4.929	4.270	11873957	50699224	378.917	378.177
6)	L1 AR-1016-4	5.031	4.320	9157059	45814425	376.126	378.907
7)	L1 AR-1016-5	5.346	4.539	9791284	55624844	374.444	379.871
31)	L7 AR-1260-1	6.558	5.633	17323175	88714799	375.885	374.911
32)	L7 AR-1260-2	6.841	5.840	17103661	93915714	369.206	373.970
33)	L7 AR-1260-3	7.232	5.998	14940419	93723517	375.549	365.174
34)	L7 AR-1260-4	7.474	6.505	15800351	76956418	372.051	370.915
35)	L7 AR-1260-5	7.815	6.772	24013553	156.0E6	365.806	372.777

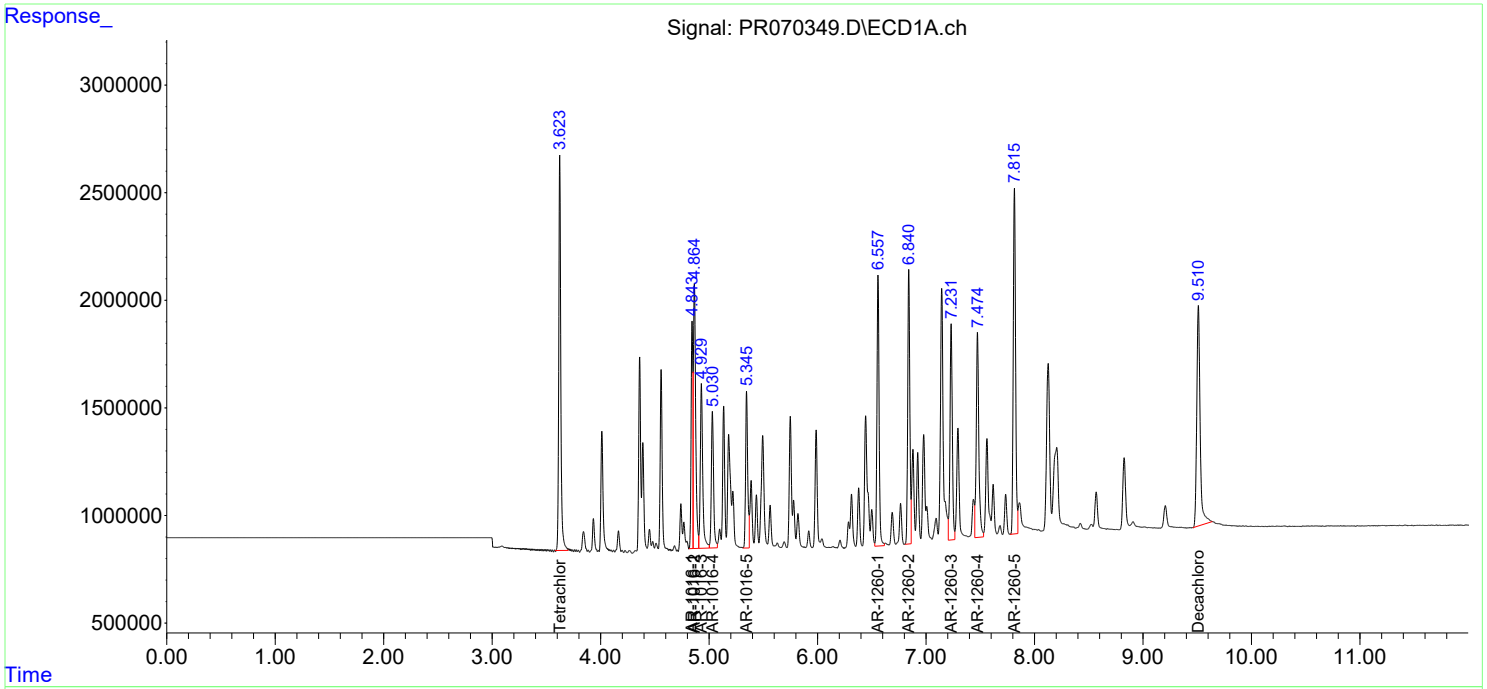
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

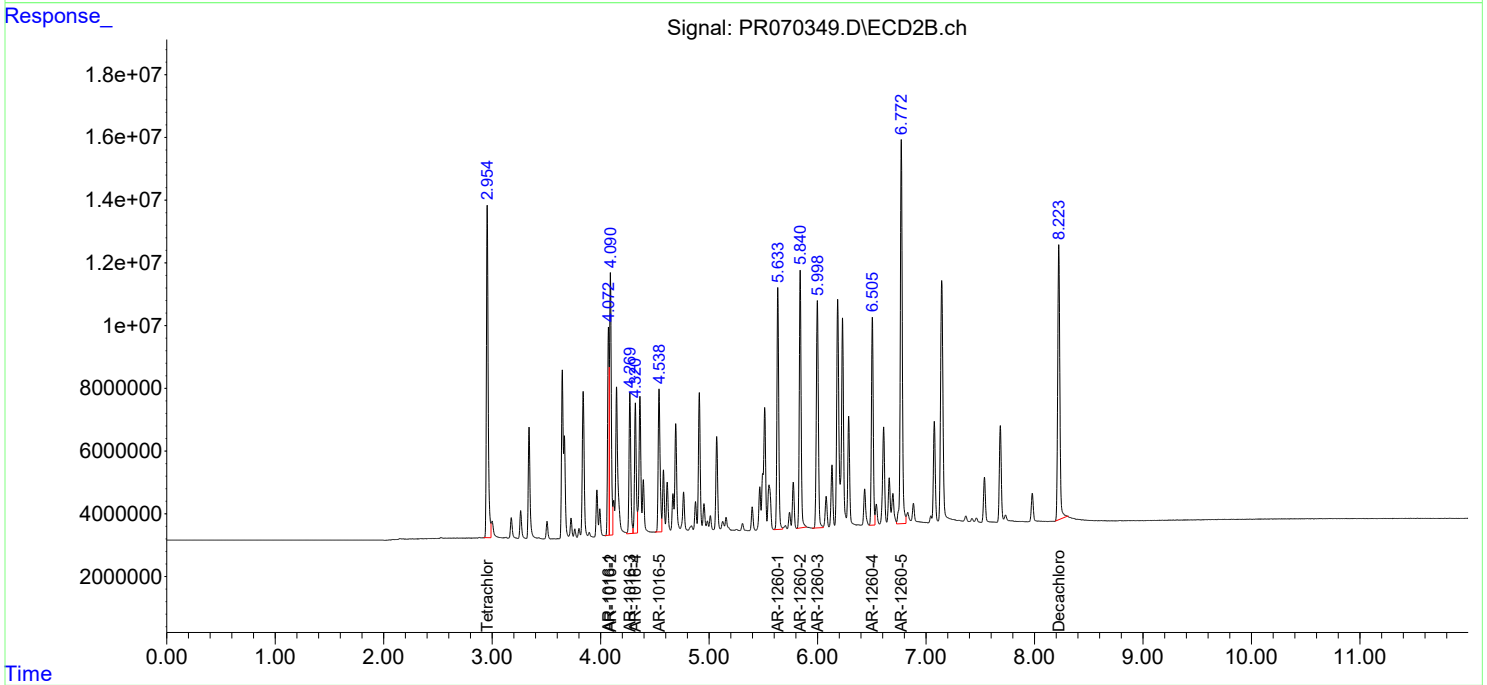
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070349.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:28
Operator : AJ\MA
Sample : AR1660CCC400
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603339

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:34 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PR070353.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Continuing Calib Date: 02/24/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 17:17 19:59

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.84	4.84	4.77	4.91	0.00
Aroclor-1016-2	(2)	4.87	4.87	4.80	4.94	0.01
Aroclor-1016-3	(3)	4.93	4.93	4.86	5.00	0.00
Aroclor-1016-4	(4)	5.03	5.03	4.96	5.10	0.00
Aroclor-1016-5	(5)	5.35	5.35	5.28	5.42	0.01
Aroclor-1260-1	(1)	6.56	6.56	6.49	6.63	0.00
Aroclor-1260-2	(2)	6.84	6.84	6.77	6.91	0.00
Aroclor-1260-3	(3)	7.23	7.23	7.16	7.30	0.00
Aroclor-1260-4	(4)	7.48	7.48	7.41	7.55	0.00
Aroclor-1260-5	(5)	7.82	7.82	7.75	7.89	0.00
TCX		3.62	3.62	3.57	3.67	0.00
DCB		9.51	9.51	9.41	9.61	0.00

Raw Data: **PR070353.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

Continuing Calib Date: 02/24/2025 **Initial Calibration Date(s):** 02/24/2025 02/24/2025

Continuing Calib Time: 21:27 **Initial Calibration Time(s):** 17:17 19:59

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

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.07	4.07	4.00	4.14	0.00
Aroclor-1016-2	(2)	4.09	4.09	4.02	4.16	0.00
Aroclor-1016-3	(3)	4.27	4.27	4.20	4.34	0.00
Aroclor-1016-4	(4)	4.32	4.32	4.25	4.39	0.00
Aroclor-1016-5	(5)	4.54	4.54	4.47	4.61	0.00
Aroclor-1260-1	(1)	5.63	5.63	5.56	5.70	0.00
Aroclor-1260-2	(2)	5.84	5.84	5.77	5.91	0.00
Aroclor-1260-3	(3)	6.00	6.00	5.93	6.07	0.00
Aroclor-1260-4	(4)	6.50	6.51	6.44	6.58	0.01
Aroclor-1260-5	(5)	6.77	6.77	6.70	6.84	0.00
TCX		2.95	2.96	2.91	3.01	0.01
DCB		8.22	8.23	8.13	8.33	0.01

Raw Data: **PR070353.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/24/2025

Lab Sample No.: AR1660CCC400 **Data File :** PR070353.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.844	4.743	4.943	29693480.000	29249800.000	-1.5
Aroclor-1016-2	4.865	4.765	4.965	48477110.000	46104800.000	-4.9
Aroclor-1016-3	4.929	4.829	5.029	31336600.000	29666000.000	-5.3
Aroclor-1016-4	5.030	4.930	5.130	24345700.000	23000300.000	-5.5
Aroclor-1016-5	5.345	5.245	5.445	26148880.000	24620900.000	-5.8
Aroclor-1260-1	6.557	6.457	6.657	46086410.000	43945600.000	-4.6
Aroclor-1260-2	6.841	6.741	6.941	46325500.000	44246900.000	-4.5
Aroclor-1260-3	7.233	7.132	7.332	39782920.000	38495700.000	-3.2
Aroclor-1260-4	7.476	7.376	7.576	42468210.000	40986800.000	-3.5
Aroclor-1260-5	7.817	7.717	7.917	65645630.000	63878800.000	-2.7
DCB	9.510	9.411	9.611	597291800.000	577457000.000	-3.3
TCX	3.623	3.523	3.723	1259296000.000	1182600000.000	-6.1

Raw Data: **PR070353.D**

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

CALIBRATION VERIFICATION SUMMARY

Contract: CHEM02

Lab Code: CHEM **Case No.:** Q1370 **SAS No.:** Q1370 **SDG NO.:** Q1370

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 02/24/2025 02/24/2025

Client Sample No.: CCAL02 **Date Analyzed:** 02/24/2025

Lab Sample No.: AR1660CCC400 **Data File :** PR070353.D **Time Analyzed:** 21:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.071	3.973	4.173	160311700.000	155857000.000	-2.8
Aroclor-1016-2	4.089	3.991	4.191	248437200.000	234388000.000	-5.7
Aroclor-1016-3	4.269	4.171	4.371	134062100.000	127516000.000	-4.9
Aroclor-1016-4	4.320	4.221	4.421	120912200.000	113290000.000	-6.3
Aroclor-1016-5	4.538	4.439	4.639	146431000.000	136379000.000	-6.9
Aroclor-1260-1	5.632	5.534	5.734	236629100.000	221332000.000	-6.5
Aroclor-1260-2	5.839	5.741	5.941	251132000.000	237757000.000	-5.3
Aroclor-1260-3	5.997	5.899	6.099	256654200.000	239447000.000	-6.7
Aroclor-1260-4	6.504	6.406	6.606	207477000.000	194775000.000	-6.1
Aroclor-1260-5	6.771	6.674	6.874	418556100.000	401121000.000	-4.2
DCB	8.223	8.126	8.326	3231215000.000	3068010000.000	-5.1
TCX	2.954	2.855	3.055	6283122000.000	5869790000.000	-6.6

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 21:27
Operator : AJ\MA
Sample : AR1660CCC400
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603340

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:39:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.954	23651941	117.4E6	18.782	18.684
2)	SA Decachlor...	9.510	8.223	23098260	122.7E6	38.672	37.980
	Target Compounds						
3)	L1 AR-1016-1	4.844	4.071	11699916	62342839	394.023	388.885
4)	L1 AR-1016-2	4.865	4.089	18441913	93755098	380.425	377.380
5)	L1 AR-1016-3	4.929	4.269	11866405	51006533	378.676	380.469
6)	L1 AR-1016-4	5.030	4.320	9200106	45315891	377.895	374.783
7)	L1 AR-1016-5	5.345	4.538	9848348	54551535	376.626	372.541
31)	L7 AR-1260-1	6.557	5.632	17578247	88532689	381.419	374.141
32)	L7 AR-1260-2	6.841	5.839	17698756	95102718	382.052	378.696
33)	L7 AR-1260-3	7.233	5.997	15398289	95778625	387.058	373.182
34)	L7 AR-1260-4	7.476	6.504	16394714	77910083	386.047	375.512
35)	L7 AR-1260-5	7.817	6.771	25551511	160.4E6	389.234	383.338

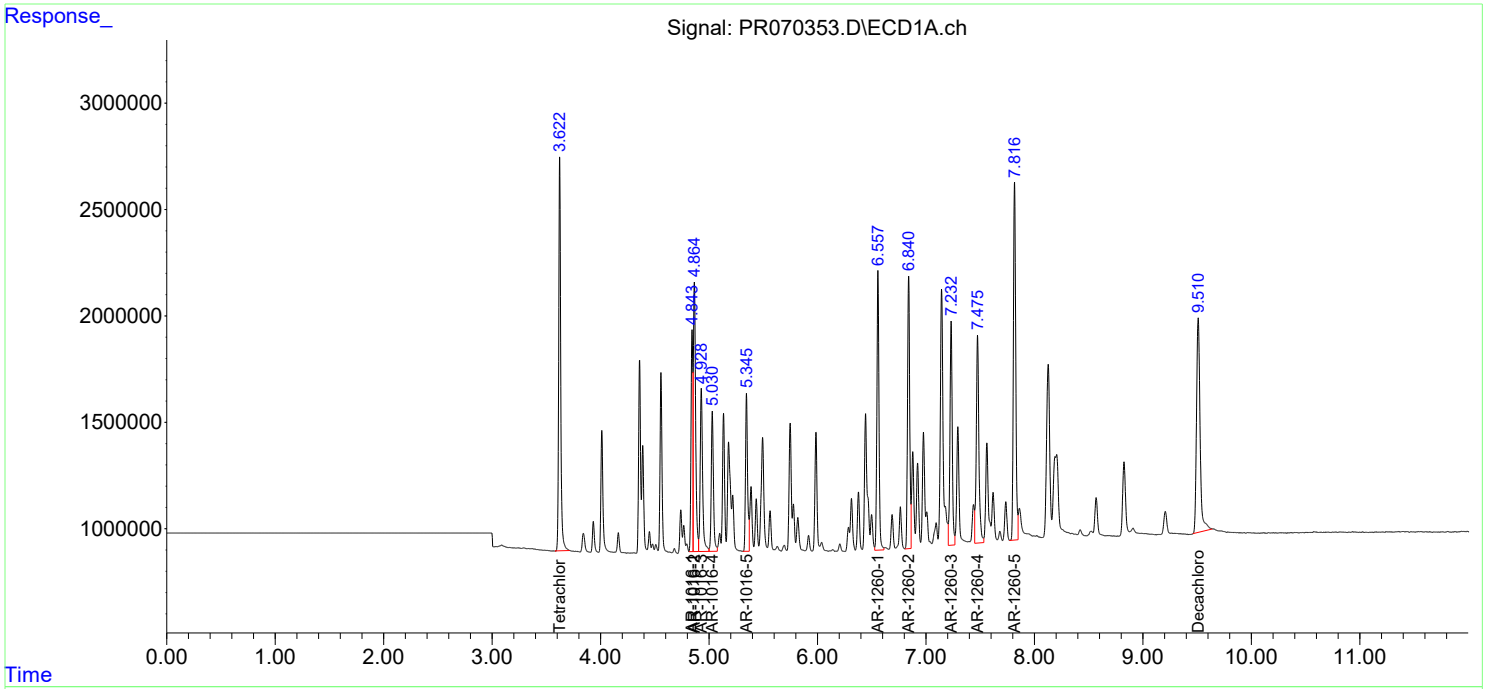
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

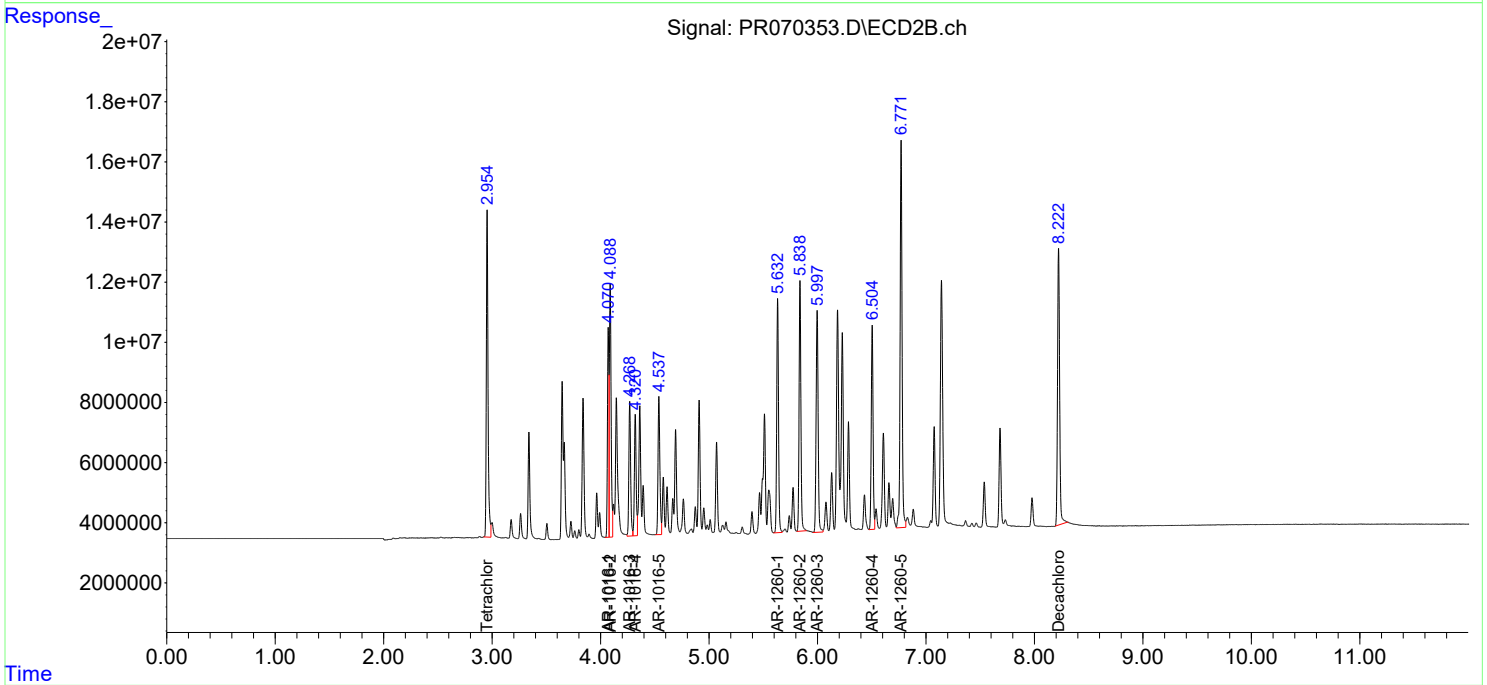
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 21:27
Operator : AJ\MA
Sample : AR1660CCC400
Misc :
ALS Vial : 44 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AR16603340

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:39:16 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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: Chemtech Consulting Group **SDG No.:** Q1370

Project: Weekly Storage Blanks **Instrument ID:** ECD_R

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
AIBLK172	AIBLK056	02/24/2025	17:03	PR070335.D	9.51	3.62
AR16601238	AR1660ICC100	02/24/2025	17:17	PR070336.D	9.51	3.62
AR16602239	AR1660ICC200	02/24/2025	17:32	PR070337.D	9.51	3.62
AR16603240	AR1660ICC400	02/24/2025	17:47	PR070338.D	9.51	3.62
AR16604241	AR1660ICC800	02/24/2025	18:01	PR070339.D	9.51	3.62
AR16605242	AR1660ICC1600	02/24/2025	18:16	PR070340.D	9.51	3.62
AR12211243	AR1221ICC100	02/24/2025	18:31	PR070341.D	9.51	3.62
AR12321244	AR1232ICC100	02/24/2025	18:45	PR070342.D	9.51	3.62
AR12421245	AR1242ICC100	02/24/2025	19:00	PR070343.D	9.51	3.62
AR12481246	AR1248ICC100	02/24/2025	19:15	PR070344.D	9.51	3.62
AR12541247	AR1254ICC100	02/24/2025	19:29	PR070345.D	9.51	3.62
AR12621248	AR1262ICC100	02/24/2025	19:44	PR070346.D	9.51	3.62
AR12681249	AR1268ICC100	02/24/2025	19:59	PR070347.D	9.51	3.62
AIBLK173	AIBLK057	02/24/2025	20:13	PR070348.D	9.51	3.62
AR16603339	AR1660CCC400	02/24/2025	20:28	PR070349.D	9.51	3.62
PCB-GPC2-BLANK	Q1370-13	02/24/2025	20:43	PR070350.D	0.00	0.00
PCB-GPC2-BLANK-SPIKE	Q1370-14	02/24/2025	20:57	PR070351.D	0.00	0.00
AIBLK174	AIBLK058	02/24/2025	21:12	PR070352.D	9.51	3.62
AR16603340	AR1660CCC400	02/24/2025	21:27	PR070353.D	9.51	3.62

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

Analytical Sequence

Client: Chemtech Consulting Group **SDG No.:** Q1370

Project: Weekly Storage Blanks **Instrument ID:** ECD_R

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 02/24/2025 02/24/2025

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

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
AIBLK172	AIBLK056	02/24/2025	17:03	PR070335.D	8.23	2.96
AR16601238	AR1660ICC100	02/24/2025	17:17	PR070336.D	8.23	2.96
AR16602239	AR1660ICC200	02/24/2025	17:32	PR070337.D	8.23	2.96
AR16603240	AR1660ICC400	02/24/2025	17:47	PR070338.D	8.23	2.96
AR16604241	AR1660ICC800	02/24/2025	18:01	PR070339.D	8.23	2.96
AR16605242	AR1660ICC1600	02/24/2025	18:16	PR070340.D	8.22	2.96
AR12211243	AR1221ICC100	02/24/2025	18:31	PR070341.D	8.22	2.96
AR12321244	AR1232ICC100	02/24/2025	18:45	PR070342.D	8.22	2.96
AR12421245	AR1242ICC100	02/24/2025	19:00	PR070343.D	8.23	2.96
AR12481246	AR1248ICC100	02/24/2025	19:15	PR070344.D	8.23	2.96
AR12541247	AR1254ICC100	02/24/2025	19:29	PR070345.D	8.23	2.96
AR12621248	AR1262ICC100	02/24/2025	19:44	PR070346.D	8.22	2.96
AR12681249	AR1268ICC100	02/24/2025	19:59	PR070347.D	8.23	2.96
AIBLK173	AIBLK057	02/24/2025	20:13	PR070348.D	8.23	2.96
AR16603339	AR1660CCC400	02/24/2025	20:28	PR070349.D	8.22	2.96
PCB-GPC2-BLANK	Q1370-13	02/24/2025	20:43	PR070350.D	0.00	0.00
PCB-GPC2-BLANK-SPIKE	Q1370-14	02/24/2025	20:57	PR070351.D	0.00	0.00
AIBLK174	AIBLK058	02/24/2025	21:12	PR070352.D	8.22	2.95
AR16603340	AR1660CCC400	02/24/2025	21:27	PR070353.D	8.22	2.95

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Fax : 908 789 8922

IDENTIFICATION SUMMARY
FOR MULTICOMPONENT ANALYTES

SAMPLE NO.

PCB-GPC2-BLANK-SPIK

Contract: CHEM02

Lab Code: CHEM Case No.: Q1370 SAS No.: Q1370 SDG NO.: Q1370

Lab Sample ID: Q1370-14 Date(s) Analyzed: 02/24/2025 02/24/2025

Instrument ID (1): ECD_R Instrument ID (2): ECD_R

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

Data file PR070351.D

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	MEAN CONCENTRATION	%RPD
Aroclor-1016	1	4.844	4.794	4.894	176		
	2	4.866	4.816	4.916	187		
	3	4.929	4.879	4.979	179		
COLUMN 1	4	5.031	4.981	5.081	190		
	5	5.346	5.296	5.396	179	182	
	1	4.073	4.023	4.123	193		
	2	4.091	4.041	4.141	193		
	3	4.27	4.22	4.32	194		
	4	4.322	4.272	4.372	190		
COLUMN 2	5	4.539	4.489	4.589	189	192	5.1
Aroclor-1260	1	6.557	6.507	6.607	208		
	2	6.841	6.791	6.891	209		
	3	7.231	7.181	7.281	186		
COLUMN 1	4	7.474	7.424	7.524	203		
	5	7.815	7.765	7.865	199	201	
	1	5.633	5.583	5.683	219		
	2	5.839	5.789	5.889	219		
	3	5.997	5.947	6.047	222		
	4	6.504	6.454	6.554	168		
COLUMN 2	5	6.771	6.721	6.821	209	207	3.1

QC SAMPLE DATA

Raw Data: **PR070335.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/24/25
Project:	Weekly Storage Blanks	Date Received:	02/24/25
Client Sample ID:	PIBLK-PR070335.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PR070335.D	Matrix:	WATER
Analytical Method:	SFAM_PCB	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR070335.D	1		02/24/25	PR022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.077	U	0.077	1.00	ug/L
11104-28-2	Aroclor-1221	0.077	U	0.077	1.00	ug/L
11141-16-5	Aroclor-1232	0.077	U	0.077	1.00	ug/L
53469-21-9	Aroclor-1242	0.077	U	0.077	1.00	ug/L
12672-29-6	Aroclor-1248	0.077	U	0.077	1.00	ug/L
11097-69-1	Aroclor-1254	0.077	U	0.077	1.00	ug/L
11096-82-5	Aroclor-1260	0.073	U	0.073	1.00	ug/L
37324-23-5	Aroclor-1262	0.077	U	0.077	1.00	ug/L
11100-14-4	Aroclor-1268	0.077	U	0.077	1.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.21		30 - 150	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.43		30 - 150	109%	SPK: 40

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_R\Data\PR022425\
Data File : PR070335.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:03
Operator : AJ\MA
Sample : AIBLK056
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK172

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.624	2.955	26093867	136.0E6	20.721	21.639
2)	SA Decachlor...	9.512	8.225	26427439	140.5E6	44.245	43.479
	Target Compounds						

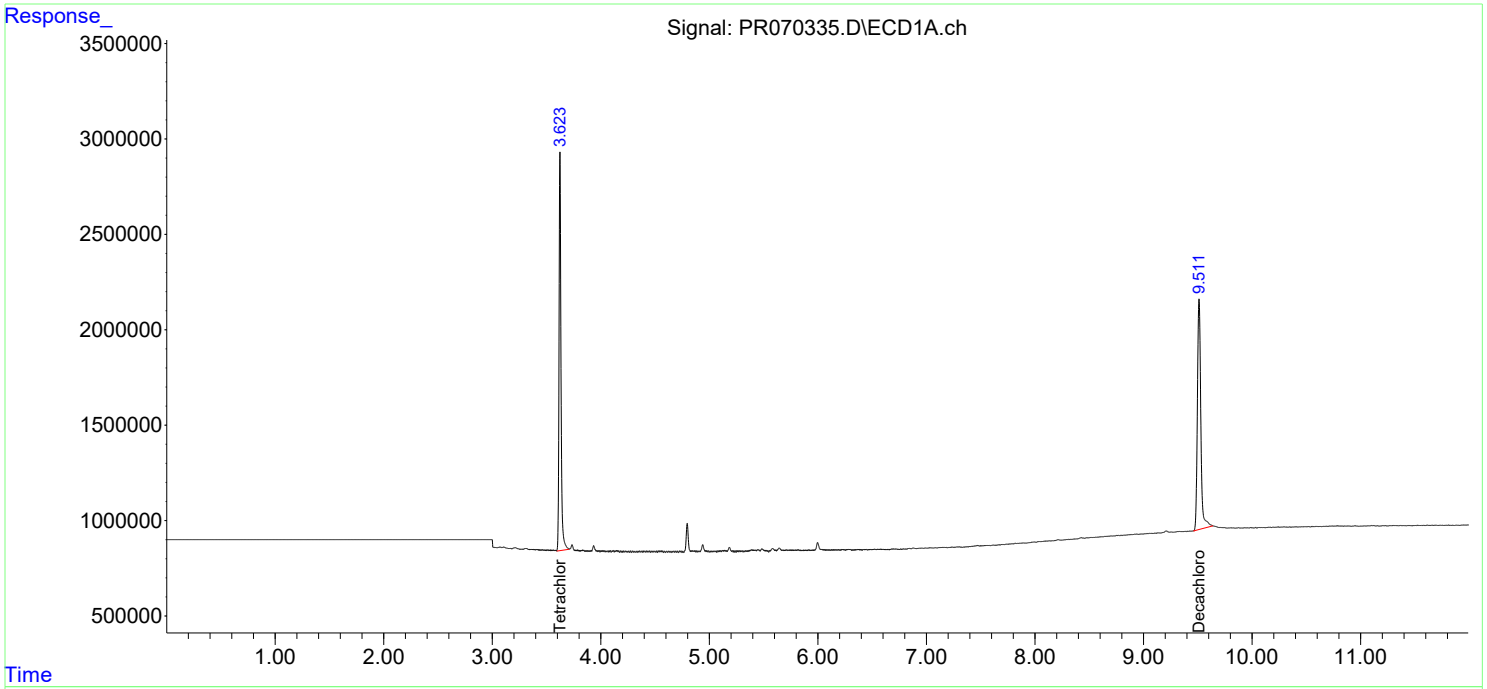
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

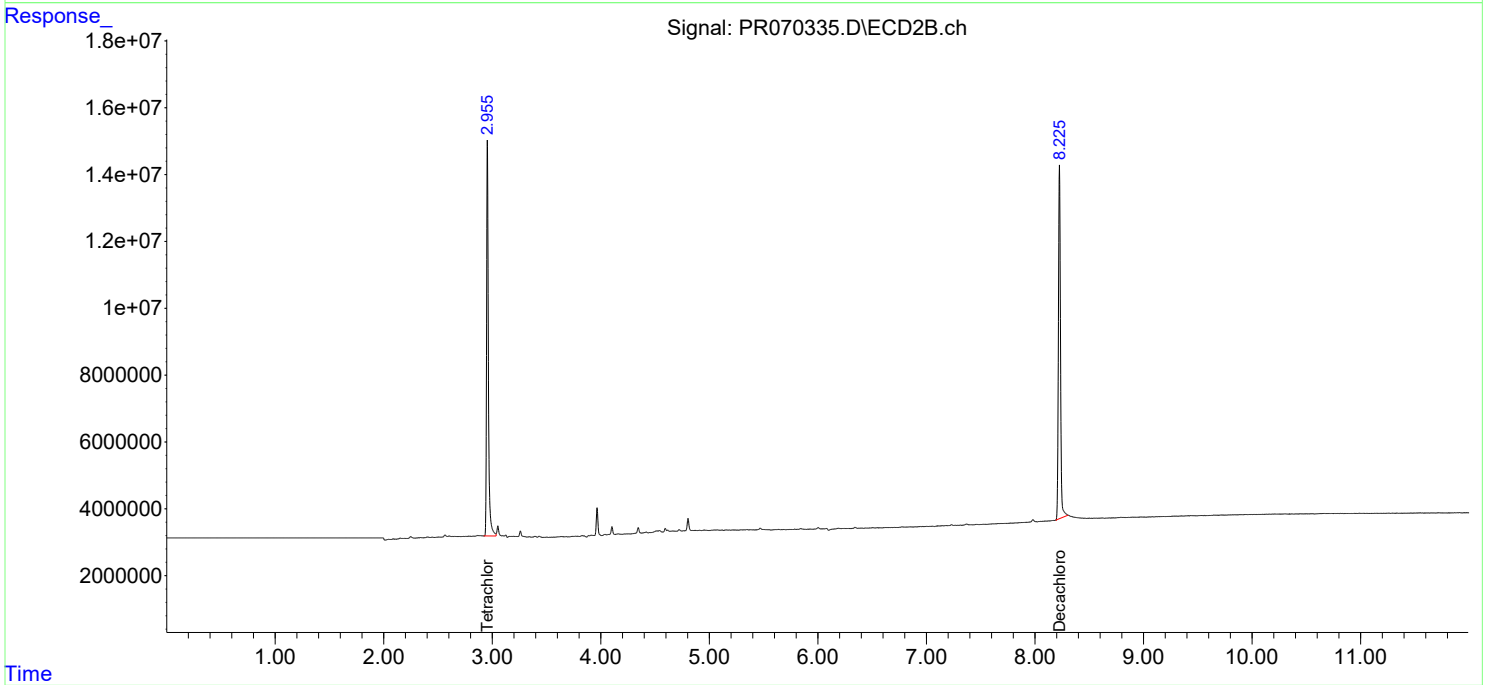
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070335.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 17:03
Operator : AJ\MA
Sample : AIBLK056
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK172

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:13 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PR070348.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/24/25
Project:	Weekly Storage Blanks	Date Received:	02/24/25
Client Sample ID:	PIBLK-PR070348.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PR070348.D	Matrix:	WATER
Analytical Method:	SFAM_PCB	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR070348.D	1		02/24/25	PR022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.077	U	0.077	1.00	ug/L
11104-28-2	Aroclor-1221	0.077	U	0.077	1.00	ug/L
11141-16-5	Aroclor-1232	0.077	U	0.077	1.00	ug/L
53469-21-9	Aroclor-1242	0.077	U	0.077	1.00	ug/L
12672-29-6	Aroclor-1248	0.077	U	0.077	1.00	ug/L
11097-69-1	Aroclor-1254	0.077	U	0.077	1.00	ug/L
11096-82-5	Aroclor-1260	0.073	U	0.073	1.00	ug/L
37324-23-5	Aroclor-1262	0.077	U	0.077	1.00	ug/L
11100-14-4	Aroclor-1268	0.077	U	0.077	1.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.21		30 - 150	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.43		30 - 150	109%	SPK: 40

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_R\Data\PR022425\
Data File : PR070348.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:13
Operator : AJ\MA
Sample : AIBLK057
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK173

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.955	26084987	138.6E6	20.714	22.053
2)	SA Decachlor...	9.509	8.225	25949133	141.0E6	43.445	43.643
	Target Compounds						

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

Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070348.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 20:13
Operator : AJ\MA
Sample : AIBLK057
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK173

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:38:23 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
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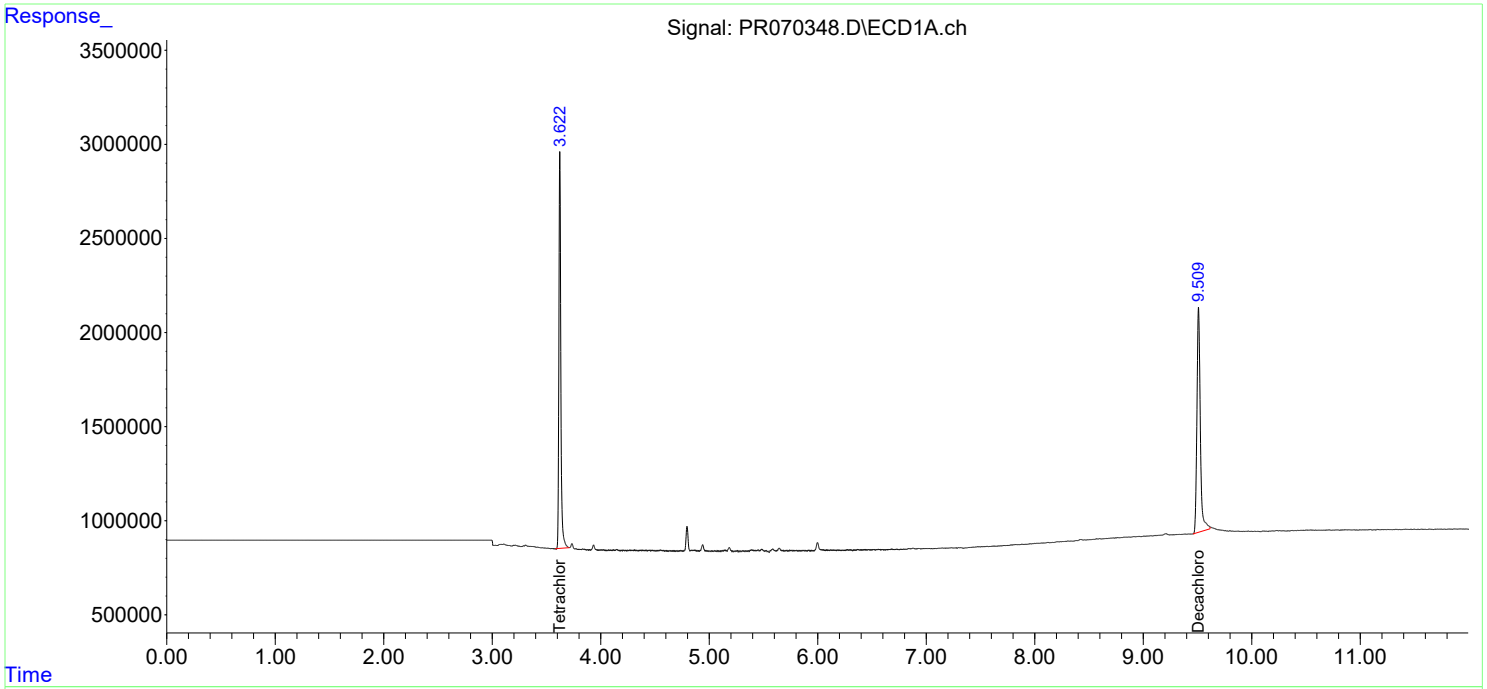
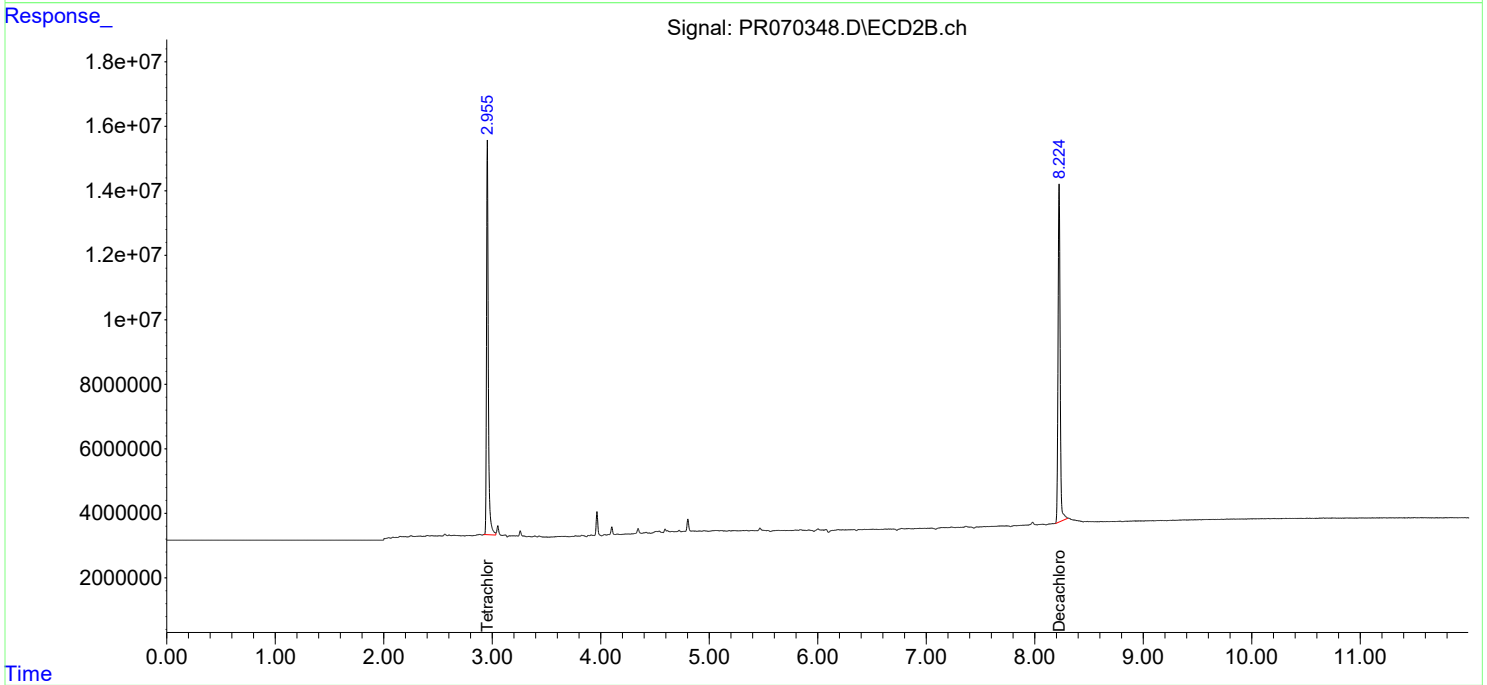
Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm Signal #2 Info : 30M x 0.32mm x 0.25µm





Raw Data: **PR070352.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	02/24/25
Project:	Weekly Storage Blanks	Date Received:	02/24/25
Client Sample ID:	PIBLK-PR070352.D	SDG No.:	Q1370
Lab Sample ID:	I.BLK-PR070352.D	Matrix:	WATER
Analytical Method:	SFAM_PCB	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PR070352.D	1		02/24/25	PR022425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.077	U	0.077	1.00	ug/L
11104-28-2	Aroclor-1221	0.077	U	0.077	1.00	ug/L
11141-16-5	Aroclor-1232	0.077	U	0.077	1.00	ug/L
53469-21-9	Aroclor-1242	0.077	U	0.077	1.00	ug/L
12672-29-6	Aroclor-1248	0.077	U	0.077	1.00	ug/L
11097-69-1	Aroclor-1254	0.077	U	0.077	1.00	ug/L
11096-82-5	Aroclor-1260	0.073	U	0.073	1.00	ug/L
37324-23-5	Aroclor-1262	0.077	U	0.077	1.00	ug/L
11100-14-4	Aroclor-1268	0.077	U	0.077	1.00	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	0.21		30 - 150	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	0.44		30 - 150	109%	SPK: 40

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_R\Data\PR022425\
Data File : PR070352.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 21:12
Operator : AJ\MA
Sample : AIBLK058
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK174

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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...	3.623	2.954	26178984	136.0E6	20.789	21.649
2)	SA Decachlor...	9.511	8.223	26148424	142.8E6	43.778	44.197
	Target Compounds						

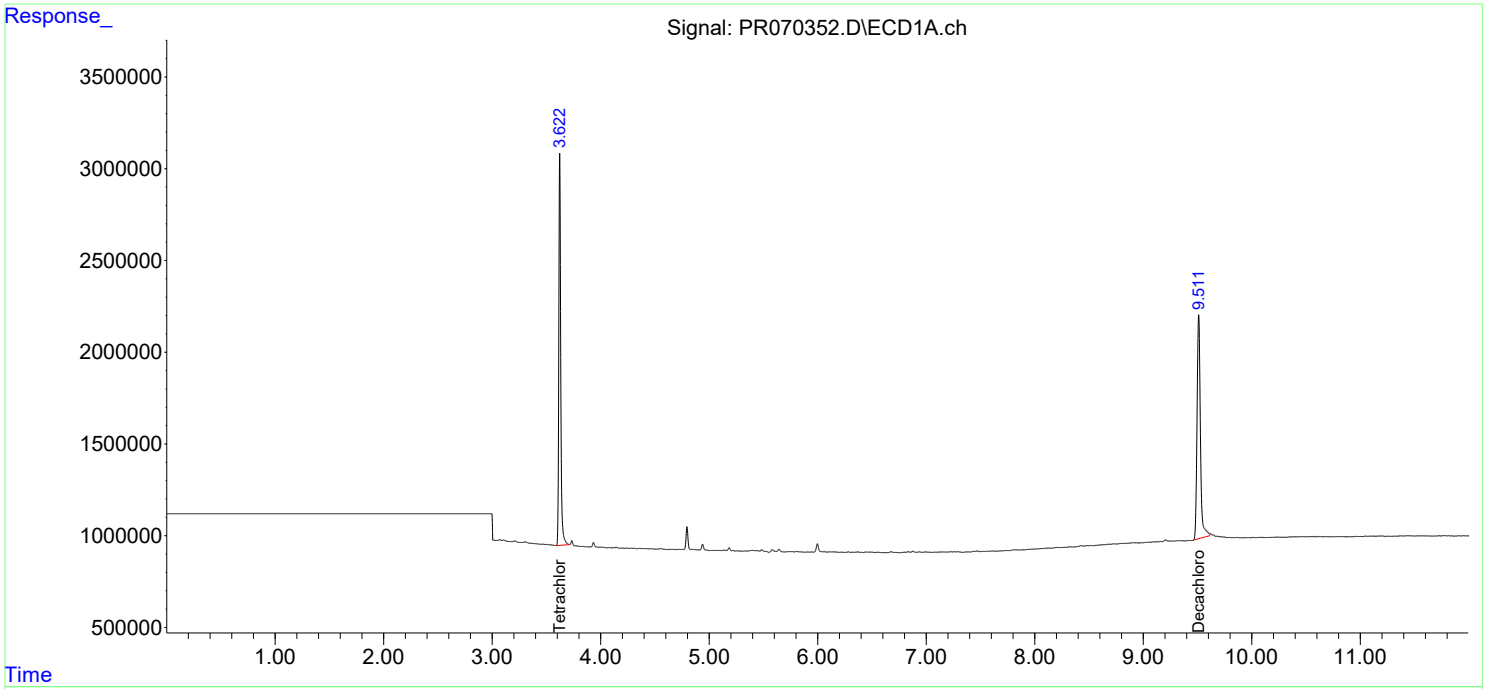
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

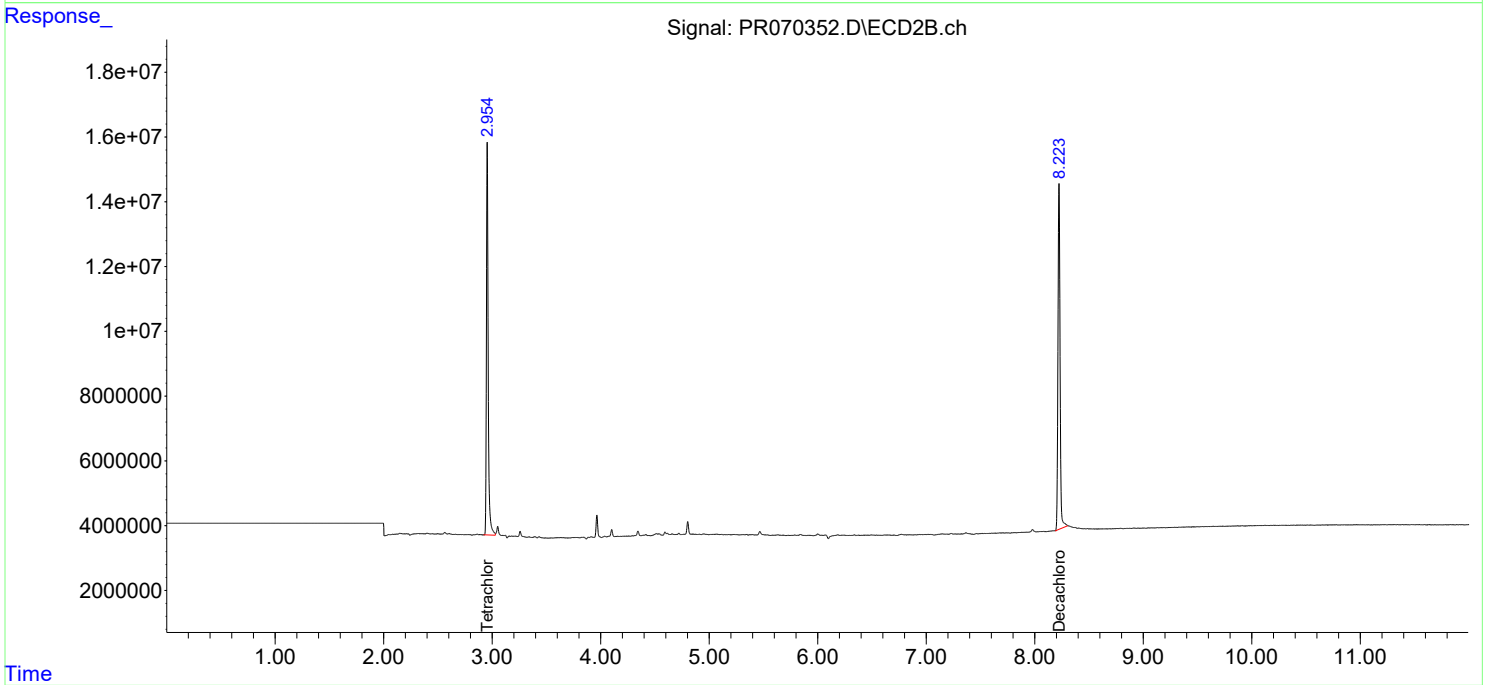
Data Path : Z:\pestpcbsrv\HPCHEM1\ECD_R\Data\PR022425\
Data File : PR070352.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 24 Feb 2025 21:12
Operator : AJ\MA
Sample : AIBLK058
Misc :
ALS Vial : 43 Sample Multiplier: 1

Instrument :
ECD_R
ClientSampleId :
AIBLK174

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 25 09:39:06 2025
Quant Method : Z:\pestpcbsrv\HPCHEM1\ECD_R\Method\PR022525CLP.M
Quant Title : GC EXTRACTABLES
QLast Update : Tue Feb 25 09:36:50 2025
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 1 µl
Signal #1 Phase : ZB MR1 Signal #2 Phase: ZB MR2
Signal #1 Info : 30Mx0.32mmx 0.5µm 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:	PR022425	Instrument	ECD_r

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QCBatch ID # PR022425

Review By	yogesh	Review On	2/25/2025 10:24:16 AM		
Supervise By	Ankita	Supervise On	2/25/2025 1:28:16 PM		
SubDirectory	PR022425	HP Acquire Method		HP Processing Method	PR022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24020,PP24019,PP24018,PP24017,PP24016,PP24025,PP24024,PP24023,PP24022,PP24021,PP24030,PP24029,PP24028,PP24027,PP24026,PP24035,PP24034,PP24033,PP24032,PP24031,PP24040,PP24039,PP24038,PP24037,PP24036,PP24045,PP24044,PP24043,PP24042,PP24041,PP24050,PP24049,PP24048,PP24047,PP24046,PP24055,PP24054,PP24053,PP24052,PP24051
CCC	PP24018,PP24023,PP24028,PP24033,PP24038,PP24043,PP24048,PP24053
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	HEXANE	PR070334.D	24 Feb 2025 16:48	AJ\MA	Ok
2	AIBLK056	PR070335.D	24 Feb 2025 17:03	AJ\MA	Ok
3	AR1660ICC100	PR070336.D	24 Feb 2025 17:17	AJ\MA	Ok
4	AR1660ICC200	PR070337.D	24 Feb 2025 17:32	AJ\MA	Ok
5	AR1660ICC400	PR070338.D	24 Feb 2025 17:47	AJ\MA	Ok
6	AR1660ICC800	PR070339.D	24 Feb 2025 18:01	AJ\MA	Ok
7	AR1660ICC1600	PR070340.D	24 Feb 2025 18:16	AJ\MA	Ok
8	AR1221ICC100	PR070341.D	24 Feb 2025 18:31	AJ\MA	Ok
9	AR1232ICC100	PR070342.D	24 Feb 2025 18:45	AJ\MA	Ok
10	AR1242ICC100	PR070343.D	24 Feb 2025 19:00	AJ\MA	Ok
11	AR1248ICC100	PR070344.D	24 Feb 2025 19:15	AJ\MA	Ok
12	AR1254ICC100	PR070345.D	24 Feb 2025 19:29	AJ\MA	Ok
13	AR1262ICC100	PR070346.D	24 Feb 2025 19:44	AJ\MA	Ok
14	AR1268ICC100	PR070347.D	24 Feb 2025 19:59	AJ\MA	Ok
15	AIBLK057	PR070348.D	24 Feb 2025 20:13	AJ\MA	Ok
16	AR1660CCC400	PR070349.D	24 Feb 2025 20:28	AJ\MA	Ok
17	Q1370-13	PR070350.D	24 Feb 2025 20:43	AJ\MA	Ok
18	Q1370-14	PR070351.D	24 Feb 2025 20:57	AJ\MA	Ok
19	AIBLK058	PR070352.D	24 Feb 2025 21:12	AJ\MA	Ok
20	AR1660CCC400	PR070353.D	24 Feb 2025 21:27	AJ\MA	Ok

M : Manual Integration

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

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QCBatch ID # PR022425

Review By	yogesh	Review On	2/25/2025 10:24:16 AM		
Supervise By	Ankita	Supervise On	2/25/2025 1:28:16 PM		
SubDirectory	PR022425	HP Acquire Method		HP Processing Method	PR022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24020,PP24019,PP24018,PP24017,PP24016,PP24025,PP24024,PP24023,PP24022,PP24021,PP24030,PP24029,PP24028,PP24027,PP24026,PP24035,PP24034,PP24033,PP24032,PP24031,PP24040,PP24039,PP24038,PP24037,PP24036,PP24045,PP24044,PP24043,PP24042,PP24041,PP24050,PP24049,PP24048,PP24047,PP24046,PP24055,PP24054,PP24053,PP24052,PP24051
CCC	PP24018,PP24023,PP24028,PP24033,PP24038,PP24043,PP24048,PP24053
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	HEXANE	HEXANE	PR070334.D	24 Feb 2025 16:48		AJ\MA	Ok
2	AIBLK056	AIBLK172	PR070335.D	24 Feb 2025 17:03		AJ\MA	Ok
3	AR1660ICC100	AR16601238	PR070336.D	24 Feb 2025 17:17		AJ\MA	Ok
4	AR1660ICC200	AR16602239	PR070337.D	24 Feb 2025 17:32		AJ\MA	Ok
5	AR1660ICC400	AR16603240	PR070338.D	24 Feb 2025 17:47		AJ\MA	Ok
6	AR1660ICC800	AR16604241	PR070339.D	24 Feb 2025 18:01		AJ\MA	Ok
7	AR1660ICC1600	AR16605242	PR070340.D	24 Feb 2025 18:16		AJ\MA	Ok
8	AR1221ICC100	AR12211243	PR070341.D	24 Feb 2025 18:31		AJ\MA	Ok
9	AR1232ICC100	AR12321244	PR070342.D	24 Feb 2025 18:45		AJ\MA	Ok
10	AR1242ICC100	AR12421245	PR070343.D	24 Feb 2025 19:00		AJ\MA	Ok
11	AR1248ICC100	AR12481246	PR070344.D	24 Feb 2025 19:15		AJ\MA	Ok
12	AR1254ICC100	AR12541247	PR070345.D	24 Feb 2025 19:29		AJ\MA	Ok
13	AR1262ICC100	AR12621248	PR070346.D	24 Feb 2025 19:44		AJ\MA	Ok
14	AR1268ICC100	AR12681249	PR070347.D	24 Feb 2025 19:59		AJ\MA	Ok
15	AIBLK057	AIBLK173	PR070348.D	24 Feb 2025 20:13		AJ\MA	Ok
16	AR1660CCC400	AR16603339	PR070349.D	24 Feb 2025 20:28		AJ\MA	Ok
17	Q1370-13	PCB-GPC2-BLANK	PR070350.D	24 Feb 2025 20:43		AJ\MA	Ok
18	Q1370-14	PCB-GPC2-BLANK-SP	PR070351.D	24 Feb 2025 20:57		AJ\MA	Ok

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

Instrument ID: ECD_R

Daily Analysis Runlog For Sequence/QCBatch ID # PR022425

Review By	yogesh	Review On	2/25/2025 10:24:16 AM		
Supervise By	Ankita	Supervise On	2/25/2025 1:28:16 PM		
SubDirectory	PR022425	HP Acquire Method		HP Processing Method	PR022425

STD. NAME	STD REF.#
Tune/Reschk	
Initial Calibration Stds	PP24020,PP24019,PP24018,PP24017,PP24016,PP24025,PP24024,PP24023,PP24022,PP24021,PP24030,PP24029,PP24028,PP24027,PP24026,PP24035,PP24034,PP24033,PP24032,PP24031,PP24040,PP24039,PP24038,PP24037,PP24036,PP24045,PP24044,PP24043,PP24042,PP24041,PP24050,PP24049,PP24048,PP24047,PP24046,PP24055,PP24054,PP24053,PP24052,PP24051
CCC	PP24018,PP24023,PP24028,PP24033,PP24038,PP24043,PP24048,PP24053
Internal Standard/PEM	
ICV/I.BLK	
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	AIBLK058	AIBLK174	PR070352.D	24 Feb 2025 21:12		AJ\MA	Ok
20	AR1660CCC400	AR16603340	PR070353.D	24 Feb 2025 21:27		AJ\MA	Ok

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 2/17/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 16:40
In Date: 02/14/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:11
Out Date: 02/15/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB134723

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1370-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q1370-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q1370-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q1370-08	PCB-GPC-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q1370-09	PCB-GPC-BLANK-SPIKE	5	1.00	1.00	2.00	2.00	100.0	
Q1370-10	SVOC-GPC2-BLANK	6	1.00	1.00	2.00	2.00	100.0	
Q1370-11	PEST-GPC2-BLANK	7	1.00	1.00	2.00	2.00	100.0	
Q1370-12	PEST-GPC2-BLANK-SPIKE	8	1.00	1.00	2.00	2.00	100.0	
Q1370-13	PCB-GPC2-BLANK	9	1.00	1.00	2.00	2.00	100.0	
Q1370-14	PCB-GPC2-BLANK-SPIKE	10	1.00	1.00	2.00	2.00	100.0	
Q1372-01	AU-05-021425	11	1.16	8.56	9.72	8.64	87.4	
Q1372-02	AU-05-021425	12	1.15	8.67	9.82	8.78	88.0	
Q1373-01	VB27161	13	1.19	8.48	9.67	5.93	55.9	
Q1373-02	VDR25992	14	1.14	8.76	9.9	6.24	58.2	
Q1374-01	TR-05-02142025	15	1.12	8.71	9.83	9.1	91.6	
Q1374-02	TR-05-02142025-E2	16	1.16	8.82	9.98	9.5	94.6	

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

WORKLIST(Hardcopy Internal Chain)

VB134723

WorkList Name : %1-021425 **WorkList ID :** 187705 **Department :** Wet-Chemistry **Date :** 02-14-2025 07:56:20

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1370-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-08	PCB-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-09	PCB-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-10	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-11	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-12	PEST-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-13	PCB-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1370-14	PCB-GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	CHEM02	D11	02/14/2025	Chemtech -SO
Q1372-01	AU-05-021425	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1372-02	AU-05-021425	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1373-01	VB27161	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/14/2025	Chemtech -SO
Q1373-02	VDR25992	Solid	Percent Solids	Cool 4 deg C	PSEG03	H21	02/14/2025	Chemtech -SO
Q1374-01	TR-05-02142025	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO
Q1374-02	TR-05-02142025-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	H21	02/14/2025	Chemtech -SO

Date/Time 02/14/25 15:45
Raw Sample Received by: LB CWC
Raw Sample Relinquished by: CF SO

Date/Time 02/14/25 17:10
Raw Sample Received by: CF SO
Raw Sample Relinquished by: LB CWC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB166744

SOP ID:	M3640A-GPC cleanup-6, M3665A-Sulfuric Acid Cleanup-7				
Clean Up SOP #:	GPC Cleanup,Acid Cleanup			**Extraction Start Date :**	02/17/2025
Matrix :	Solid			**Extraction Start Time :**	10:32
Weigh By:	N/A	**Extraction By:**	N/A	**Extraction End Date :**	02/18/2025
Balance check:	N/A	**Filter By:**	N/A	**Extraction End Time :**	09:25
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	RS
pH Strip Lot#:	N/A	**Hood ID:**	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
GPC Pcb Spike	10.0ML	400 PPB	PP24124
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

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2582
Baked Na2SO4	N/A	EP2589
Hexane	N/A	E3877
H2SO4 1:1	N/A	EP2565
Methylene Chloride	N/A	E3878
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:

No Extraction only GPC Check prepared.

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
02/18/25	RP (Extr. Lab)	Y.P. Pest/PCB.
9:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB166744

Analytical Method: M3640A-GPC cleanup-6, M3665A-Sulfuric Acid Cleanup-7 **Concentration Date:** 02/18/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
Q1370-13	PCB-GPC2-BLANK	PCB	10.0	N/A	RUPESH	rajesh	5			
Q1370-14	PCB-GPC2-BLANK-SPIKE	PCB	10.0	N/A	RUPESH	rajesh	5			

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

2/18/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1370 **WorkList ID :** 187734 **Department :** Extraction **Date :** 02-17-2025 10:30:12

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1370-10	SVOC-GPC2-BLANK	Solid	SVOC-Chemtech Full -25	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_SVOC
Q1370-11	PEST-GPC2-BLANK	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PEST
Q1370-12	PEST-GPC2-BLANK-SPIKE	Solid	Pesticide-TCL	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PEST
Q1370-13	PCB-GPC2-BLANK	Solid	PCB	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PCB
Q1370-14	PCB-GPC2-BLANK-SPIKE	Solid	PCB	Cool 4 deg C	CHEM02	D11	02/14/2025	SFAM_PCB

Date/Time 02/14/25 10:30

Raw Sample Received by: RS (Sept lab)

Raw Sample Relinquished by: SR

Date/Time 02/14/25 19:50

Raw Sample Received by: SR

Raw Sample Relinquished by: RS (Sept lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1370

Test : PCB

Prepbatch ID : PB166744,

Sequence ID/Qc Batch ID: PR022425,

Standard ID :

EP2565,EP2582,EP2589,PP23776,PP24014,PP24016,PP24017,PP24018,PP24019,PP24020,PP24021,PP24022,PP24023,PP24024,PP24025,PP24026,PP24027,PP24028,PP24029,PP24030,PP24031,PP24032,PP24033,PP24034,PP24035,PP24036,PP24037,PP24038,PP24039,PP24040,PP24041,PP24042,PP24043,PP24044,PP24045,PP24046,PP24047,PP24048,PP24049,PP24050,PP24051,PP24052,PP24053,PP24054,PP24055,PP24124,

Chemical ID :

E3551,E3804,E3826,E3830,E3871,E3873,E3874,E3877,E3878,M5173,P10662,P11582,P12930,P12935,P12947,P13370,P13376,P13378,P13380,P13704,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2582	02/04/2025	07/29/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 02/04/2025

FROM 8000.00000ml of E3873 + 8000.00000ml of E3874 = Final Quantity: 16000.000 ml

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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	EP2589	02/14/2025	07/01/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 02/14/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
404	AR1660 100 PPM Stock Solution 2nd Source	PP23776	10/03/2024	04/01/2025	Ankita Jodhani	None	None	Yogesh Patel 10/03/2024

FROM 1.00000ml of P12947 + 9.00000ml of E3804 = 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
70	10/20 PPM Pest/PCB SOM01.2 Surg Stock	PP24014	11/21/2024	05/18/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 1.00000ml of P10662 + 9.00000ml of E3830 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
704	Aroclor 1016/1260 CS5 (1600 ng/ml)	PP24016	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P13370 + 99.04000ml of E3826 + 0.80000ml of PP24014 = 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
705	Aroclor 1016/1260 CS4 (800 ng/ml)	PP24017	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24016 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
706	Aroclor 1016/1260 CS3 (400 ng/ml)	PP24018	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24016 = 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
707	Aroclor 1016/1260 CS2 (200 ng/ml)	PP24019	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24017 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
708	Aroclor 1016/1260 CS1 (100 ng/ml)	PP24020	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24018 = 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
696	Aroclor 1221 CS5 (1600\80\160 ng/ml)	PP24021	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P11582 + 99.04000ml of E3826 + 0.80000ml of PP24014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1857	Aroclor 1221 CS4 (800 ng/ml)	PP24022	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24021 = 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
689	Aroclor 1221 CS3 (400 ng/ml)	PP24023	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24021 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1858	Aroclor 1221 CS2 (200 ng/ml)	PP24024	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24023 = 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
1859	Aroclor 1221 CS1 (100 ng/ml)	PP24025	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24024 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
697	Aroclor 1232 CS5 (1600\80\160 ng/ml)	PP24026	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P13376 + 99.04000ml of E3826 + 0.80000ml of PP24014 = 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
1860	Aroclor 1232 CS4 (800 ng/ml)	PP24027	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24026 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
690	Aroclor 1232 CS3 (400 ng/ml)	PP24028	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24026 = 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
1861	Aroclor 1232 CS2 (200 ng/ml)	PP24029	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24028 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1862	Aroclor 1232 CS1 (100 ng/ml)	PP24030	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24029 = 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
698	Aroclor 1242 CS5 (1600\80\160 ng/ml)	PP24031	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P12930 + 99.04000ml of E3826 + 0.80000ml of PP24014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1432	Aroclor 1242 CS4 (800 ng/ml)	PP24032	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24031 = 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
691	Aroclor 1242 CS3 (400 ng/ml)	PP24033	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24031 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1433	Aroclor 1242 CS2 (200 ng/ml)	PP24034	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24033 = 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
1434	Aroclor 1242 CS1 (100 ng/ml)	PP24035	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24034 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
699	Aroclor 1248 CS5 (1600\80\160 ng/ml)	PP24036	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P12935 + 99.04000ml of E3826 + 0.80000ml of PP24014 = 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
1255	Aroclor 1248 CS4 (800 ng/ml)	PP24037	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24036 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
692	Aroclor 1248 CS3 (400 ng/ml)	PP24038	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24036 = 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
1256	Aroclor 1248 CS2 (200 ng/ml)	PP24039	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24038 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1257	Aroclor 1248 CS1 (100 ng/ml)	PP24040	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24039 = 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
700	Aroclor 1254 CS5 (1600\80\160 ng/ml)	PP24041	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P13704 + 99.04000ml of E3826 + 0.80000ml of PP24014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1863	Aroclor 1254 CS4 (800 ng/ml)	PP24042	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24041 = 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
693	Aroclor 1254 CS3 (400 ng/ml)	PP24043	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24041 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1864	Aroclor 1254 CS2 (200 ng/ml)	PP24044	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24043 = 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
1865	Aroclor 1254 CS1 (100 ng/ml)	PP24045	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24044 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
701	Aroclor 1262 CS5 (1600\80\160 ng/ml)	PP24046	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P13378 + 99.04000ml of E3826 + 0.80000ml of PP24014 = 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
1866	Aroclor 1262 CS4 (800 ng/ml)	PP24047	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24046 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
694	Aroclor 1262 CS3 (400 ng/ml)	PP24048	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24046 = 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
1867	Aroclor 1262 CS2 (200 ng/ml)	PP24049	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24048 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1868	Aroclor 1262 CS1 (100 ng/ml)	PP24050	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24049 = 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
702	Aroclor 1268 CS5 (1600\80\160 ng/ml)	PP24051	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.16000ml of P13380 + 99.04000ml of E3826 + 0.80000ml of PP24014 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1869	Aroclor 1268 CS4 (800 ng/ml)	PP24052	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24051 = 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
703	Aroclor 1268 CS3 (400 ng/ml)	PP24053	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.75000ml of E3826 + 0.25000ml of PP24051 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1870	Aroclor 1268 CS2 (200 ng/ml)	PP24054	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24053 = 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
1871	Aroclor 1268 CS1 (100 ng/ml)	PP24055	11/21/2024	05/09/2025	Ankita Jodhani	None	None	Yogesh Patel 11/22/2024

FROM 0.50000ml of E3826 + 0.50000ml of PP24054 = Final Quantity: 1.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3798	400 PPB PCB GPC SPIKE	PP24124	01/24/2025	04/01/2025	Abdul Mirza	None	None	Ankita Jodhani 01/27/2025

FROM 99.60000ml of E3871 + 0.40000ml of PP23776 = Final Quantity: 100.000 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	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	9005-05 / Acetone Ultra (cs/4x4L)	24E0761004	11/05/2025	10/01/2024 / Rajesh	09/25/2024 / Rajesh	E3804

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)	24H2762008	05/18/2025	11/18/2024 / Rajesh	11/15/2024 / Rajesh	E3830

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)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	07/29/2025	01/29/2025 / Rajesh	01/29/2025 / Rajesh	E3873

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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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

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)	243570	08/12/2025	02/12/2025 / Rajesh	02/12/2025 / Rajesh	E3877

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)	24K1762005	08/14/2025	02/14/2025 / Rajesh	12/27/2024 / Rajesh	E3878

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32453 / Pesticide Stock Standard, Pesticide Surrogate Mix, 1mL, 100-200ug/mL, acetone	A0170323	05/21/2025	11/21/2024 / Ankita	05/24/2021 / Abdul	P10662

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32007 / PCB Mix, Aroclor 1221, 1000ug/mL, Hexane, 1mL/ampul	A0175456	05/21/2025	11/21/2024 / Ankita	03/18/2022 / Abdul	P11582

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32009 / PCB Mix, Aroclor 1242, 1000ug/mL, Hexane, 1mL/ampul	a0203672	05/21/2025	11/21/2024 / Ankita	12/07/2023 / Ankita	P12930

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32010 / PCB Mix, Aroclor 1248, 1000ug/mL, Hexane, 1mL/ampul	a0202803	05/21/2025	11/21/2024 / Ankita	12/07/2023 / Ankita	P12935

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	20064 / Aroclor 1016/1260	022023	04/03/2025	10/03/2024 / Ankita	12/20/2023 / Yogesh	P12947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32039 / PCB Mix, Aroclor 1016/1260, 1000ug/mL, hexane, 1mL/ampul	A0203315	05/21/2025	11/21/2024 / Ankita	05/03/2024 / Abdul	P13370

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32008 / PCB Mix, Aroclor 1232, 1000ug/mL, Hexane, 1mL/ampul	A0206618	05/21/2025	11/21/2024 / Ankita	05/03/2024 / Abdul	P13376

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32409 / PCB Stock Solution, Aroclor 1262 Std, 1mL, Hexane	A0208576	05/21/2025	11/21/2024 / Ankita	05/03/2024 / Abdul	P13378

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32410 / PCB Stock Solution, Aroclor 1268 Std, 1mL, Hexane	A0207475	05/21/2025	11/21/2024 / Ankita	05/03/2024 / Abdul	P13380

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	32011 / PCB Mix, Aroclor 1254, 1000ug/mL, Hexane, 1mL/ampul	A0212239	08/31/2030	11/21/2024 /	10/17/2024 / yogesh	P13704

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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
CMOS

avantor™ | J.T.Baker®

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

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.5 %	99.8 %
Color (APHA)	≤ 10	< 5
Residue after Evaporation	≤ 5 ppm	< 1 ppm
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.5	0.1
Water (H_2O)	≤ 0.5 %	0.1 %
Solubility in H_2O	Passes Test	Passes Test
Chloride (Cl)	≤ 0.2 ppm	< 0.2 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.05 ppm
Trace Impurities - Aluminum (Al)	≤ 50.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 5.0 ppb
Trace Impurities - Barium (Ba)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 25.0 ppb	3.6 ppb
Trace Impurities - Chromium (Cr)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Trace Impurities - Iron (Fe)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Recd by RP on 9/25/24

E 3804

Acetone
CMOS

avantor™ | J.T.Baker®

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

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

>>> Continued on page 3 >>>

Acetone
CMOS

avantor™ | J.T.Baker®

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

Test	Specification	Result

For Microelectronic Use

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

Michelle Bales
Sr. Manager, Quality Assurance

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.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 11/15/24

E 3830

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

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

12/9-1/24

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

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
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	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3871

Jamie Croak
Director Quality Operations, Bioscience Production

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

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date:2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 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 %	<0.1 %
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 1/29/25

E 3873

JCroak
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

PO: PO2-1178.2 PRODUCT CODE: SHIP DATE: 1/20/2025

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

avantor | J.T.Baker

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

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 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 3874

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

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	H303	Quality Test / Release Date	11/07/2024
Lot Number	243570		
Description	HEXANES - OPTIMA		
Country of Origin	United States	Suggested Retest Date	Nov/2029
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 60	69
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.9	>99.9
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.669
EVAPORATION RESIDUE	ppm	<= 1	<1
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABS. UNITS	<= 1	0.74
OPTICAL ABS AT 210 NM	ABS. UNITS	<= 0.25	0.17
OPTICAL ABS AT 220 NM	ABS. UNITS	<= 0.07	0.05
OPTICAL ABS AT 254 NM	ABS. UNITS	<= 0.005	0.001
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<10
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.375 - 1.385	1.379
SUITABILITY FOR GC/MS		= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	<0.01
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.0001

Recd by RP on 2/12/25

E3877

Harout Sahagian - Quality Control Manager - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

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

avantor | J.T.Baker

Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date:2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
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	0.5 ppm
Titrable Acid (µeq/g)	<= 0.3	0.0
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 3878

JCroak
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

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

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

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.189
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	< 1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	0.5
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	15.0
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

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

Material No.: 9530-33
Batch No.: 0000281827

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

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

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

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

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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. : 32453 **Lot No.:** A0170323

Description : SOM01.1 Pesticide Surrogate Standard

Pesticide Surrogate Mix 100-200µg/mL, Acetone, 1mL/ampul

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

Expiration Date : June 30, 2027 **Storage:** 0°C or colder

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

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2,4,5,6-Tetrachloro-m-xylene	100.0 µg/mL	+/- 0.7088 µg/mL	Gravimetric
	CAS # 877-09-8 (Lot 0052481)		+/- 3.1930 µg/mL	Unstressed
	Purity 98%		+/- 4.1577 µg/mL	Stressed
2	Decachlorobiphenyl (BZ# 209)	200.0 µg/mL	+/- 1.4182 µg/mL	Gravimetric
	CAS # 2051-24-3 (Lot ER071509-01)		+/- 6.3886 µg/mL	Unstressed
	Purity 99%		+/- 8.3187 µg/mL	Stressed

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

P10653
↓
P10662
AR
05.26.2021

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

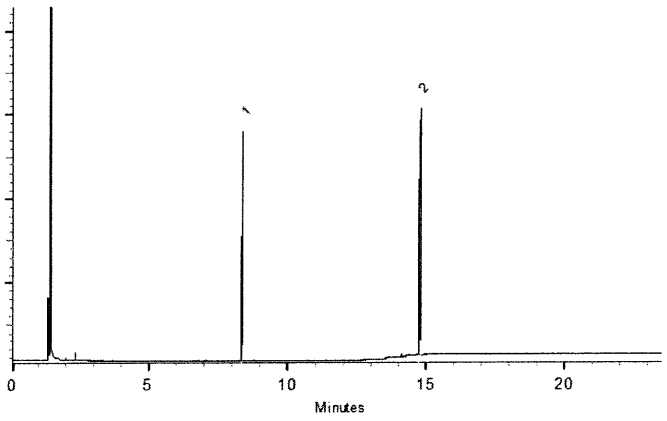
Carrier Gas:
hydrogen-constant pressure 10 psi.

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

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



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

Erik Strommer - Operations Tech I

Date Mixed: 18-Mar-2021 **Balance:** B251644995

Justine Albertson - Operations Tech-ARM QC

Date Passed: 22-Mar-2021

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

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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. : 32007 **Lot No.:** A0175456

Description : Aroclor® 1221 Standard

Aroclor® 1221 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : November 30, 2027 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1221	1,002.0 µg/mL	+/- 5.9516	µg/mL	Gravimetric
	CAS # 11104-28-2 (Lot 10210500)		+/- 31.7706	µg/mL	Unstressed
	Purity ----%		+/- 41.4958	µg/mL	Stressed

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

P 11578 ↓ P 11582 (S)

AR 04/30/22

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

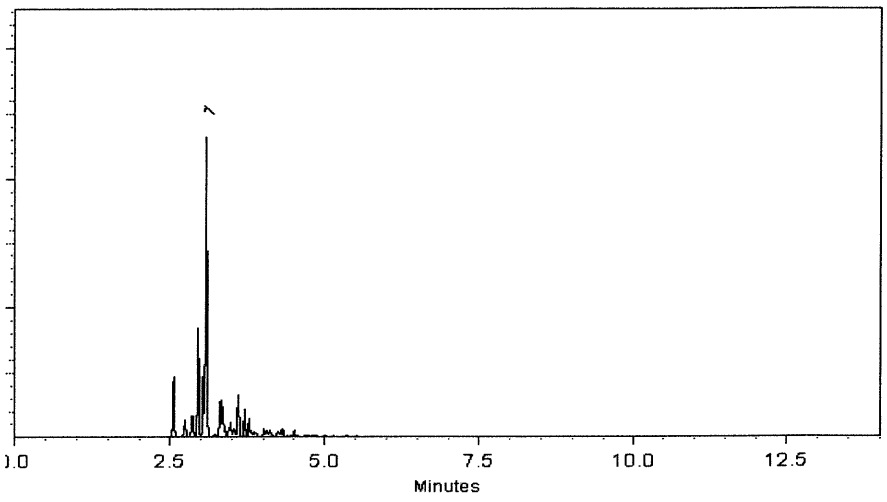
Carrier Gas:
helium-constant pressure 20 psi.

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.

Sam Moodler - Operations Tech I

Date Mixed: 16-Aug-2021 **Balance:** B442140311

Marlina Cowan - Operations Tech I

Date Passed: 18-Aug-2021

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

P11578 ↓ P11582 (5)

AR 04/30/22

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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. : 32009 **Lot No.:** A0203672

Description : Aroclor® 1242 Standard

Aroclor® 1242 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

P12928
↓
P12932
AJ
12/07/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1242	53469-21-9	01141	----%	1,004.7 µg/mL	+/- 55.7515

* 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.)

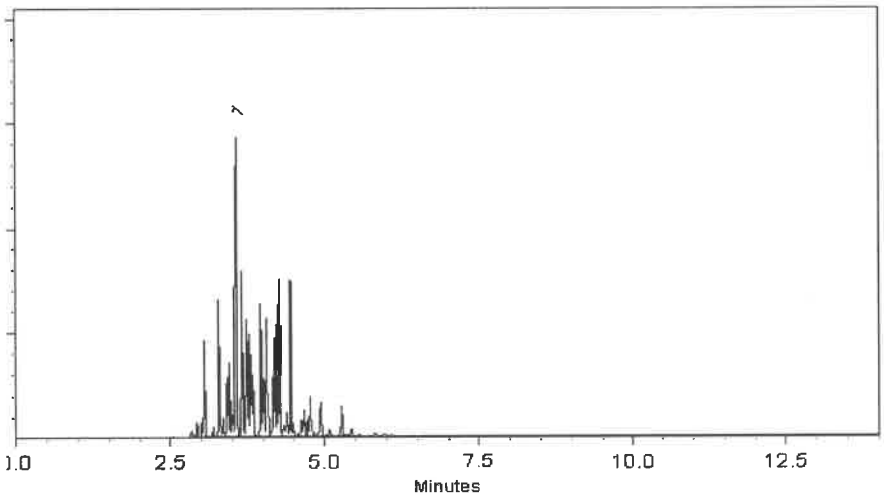
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 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.

Russ Bookhamer - Operations Technician I

Date Mixed: 26-Oct-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Nov-2023

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P12933 ↓ P12937 AJ 12/07/23

Catalog No. : 32010 **Lot No.:** A0202803

Description : Aroclor® 1248 Standard

Aroclor® 1248 Standard 1,000µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1248	12672-29-6	13897600	----%	1,001.7 µg/mL	+/- 55.5850

* 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.)

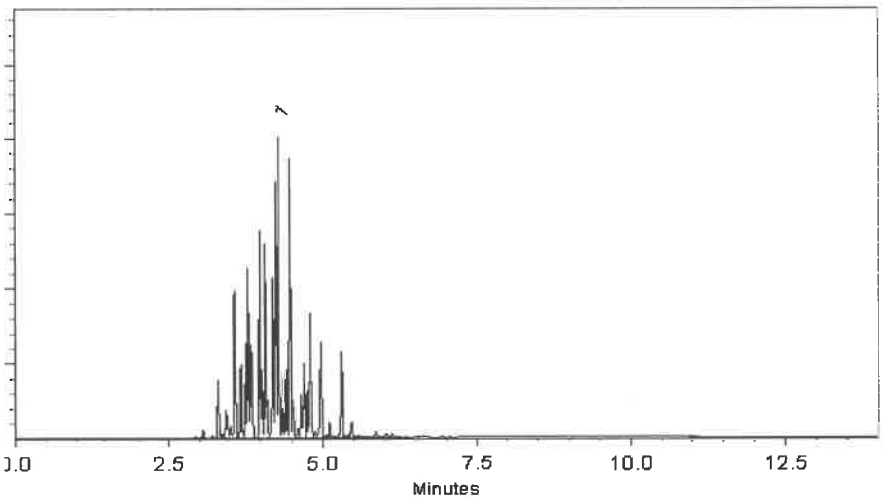
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 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.

Laith Clemente - Operations Technician I **Date Mixed:** 03-Oct-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 09-Oct-2023

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www.absolutestandards.com

Certified Reference Material CRM

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AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number:	20064
Lot Number:	022023
Description:	CLP PCB'S - Aroclor Mix
	Aroclors 1016 & 1260
Expiration Date:	022033
Recommended Storage:	Ambient (20 °C)
Nominal Concentration (µg/mL):	1000
NIST Test ID#:	6UTB

Solvent(s):	Lot#
Hexane	273615

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 200.0 0.010 Flask Uncertainty

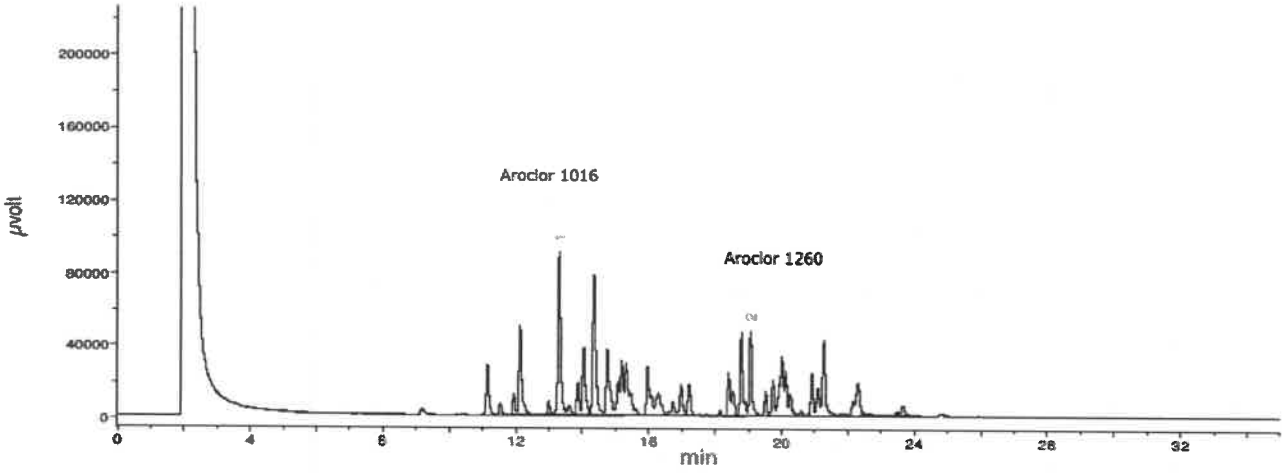
Formulated By:	Benson Chan	022023 DATE
Reviewed By:	Pedro L. Rentas	022023 DATE

P12946 ↓ P12955 — Y.P. 12/20/23

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. Aroclor 1016	15	020491JC	1000	100	0.2	0.20004	0.20060	1002.8	4.0	12674-11-2	N/A	N/A
2. Aroclor 1260	21	020491JC	1000	100	0.2	0.20004	0.20081	1003.9	4.0	11096-82-5	0.5mg/m3	orl-rat 1315mg/kg

- 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).

Comments
GC3-M1 Analysis by Melissa Stonier
Column ID SPB-608 30 meter X 0.53mm X5µm film thickness
Flow rates: Helium (carrier) = 5mL/min, Helium (make-up) = 25mL/min
Hydogen (make-up) = 30mL/min, Air (make-up) = 350mL/min
Oven Profile: Temp 1 = 150°C (Time 1 = 4 min), Temp 2 = 290°C (Time 2 = 13.5 min)
Rate = 8°C/min, Total run time = 35 min
Injector temp. = 200°C, FID Temp. = 300°C. FID Signal = Edaq Channel 1
Standard injection =1.5µL, Range=3



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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. : 32039 **Lot No.:** A0203315

Description : Aroclor® 1016/1260 Mix

Aroclor® 1016/1260 Mix 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : January 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1016	12674-11-2	4	----%	1,009.5 µg/mL	+/- 56.0077
2	Aroclor 1260	11096-82-5	1396281	----%	1,009.0 µg/mL	+/- 55.9800

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

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

P 13370 ② → P13371

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.)

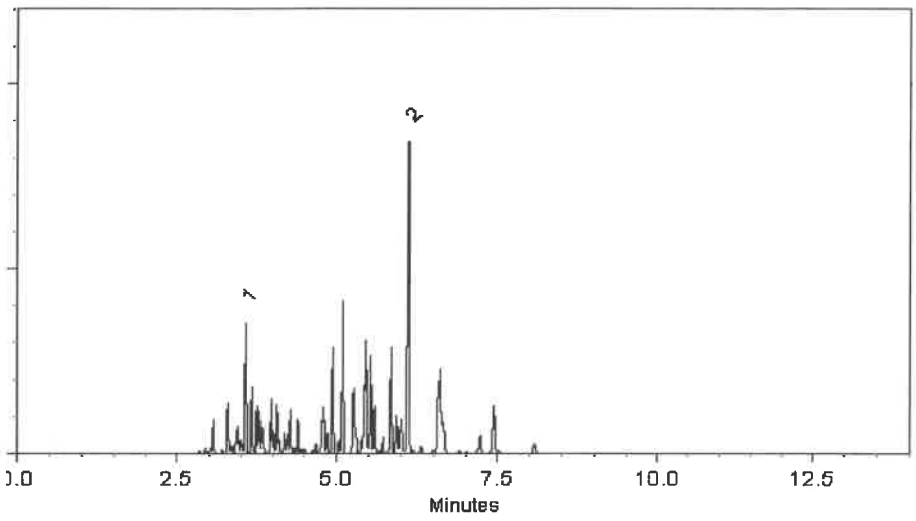
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
10 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:** 18-Oct-2023 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 23-Oct-2023

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

P13370 (2)
↓
P13371

05/06/2024

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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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. : 32008 **Lot No.:** A0206618

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1232	11141-16-5	15665-01	----%	1,007.6 µg/mL	+/- 55.9143

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

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

P13376 + P13377 (2)

05/6/2024

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.)

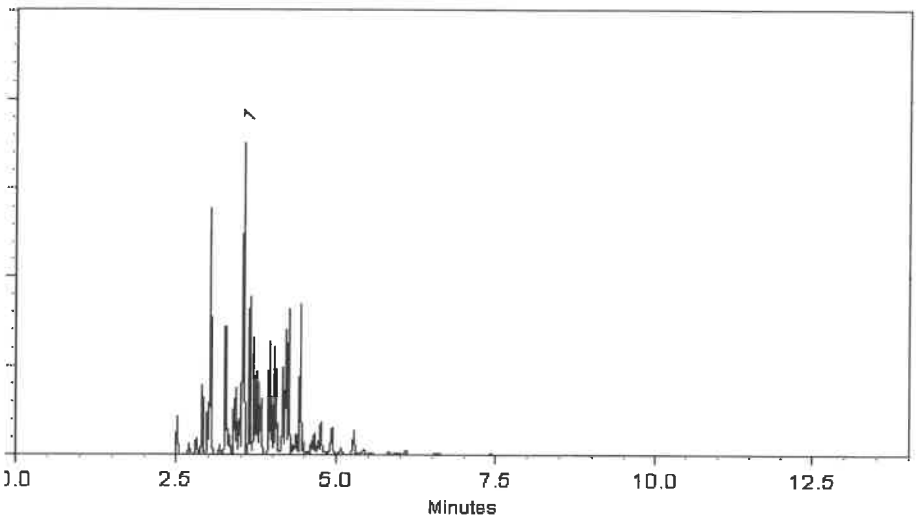
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
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.

Stacey Wanner - Operations Technician I

Date Mixed: 16-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Jan-2024

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

P13376 (2)

P13377

05/01/2024

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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. : 32008 **Lot No.:** A0206618

Description : Aroclor® 1232 Standard

Aroclor® 1232 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1232	11141-16-5	15665-01	----%	1,007.6 µg/mL	+/- 55.9143

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

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

P13376 + P13377 (2)

05/6/2024

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.)

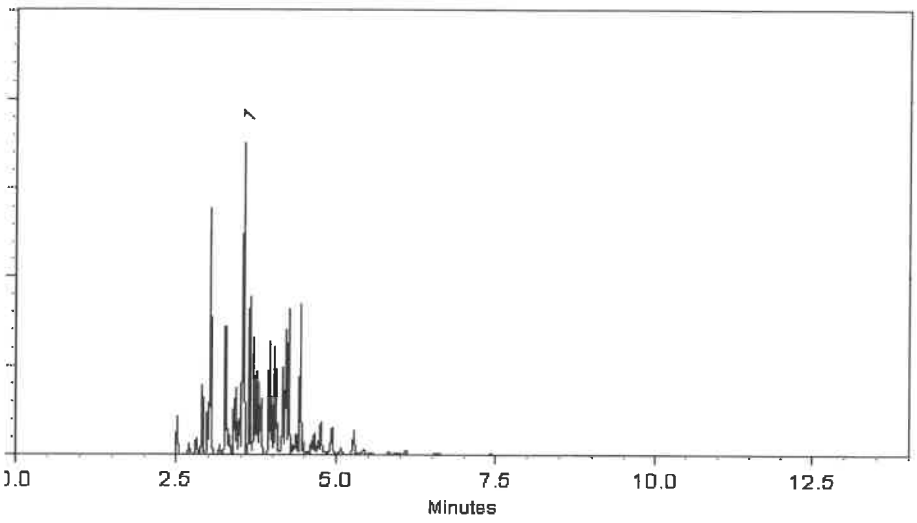
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
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.

Stacey Wanner - Operations Technician I

Date Mixed: 16-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Jan-2024

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P13376 (2)

P13377

05/01/2024

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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. : 32410 **Lot No.:** A0207475

Description : Aroclor® 1268 Standard

Aroclor® 1268 Standard 1,000 µg/mL, 1mL/ampul, Hexane

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

Expiration Date : May 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1268	11100-14-4	10947000	----%	1,000.0 µg/mL	+/- 55.4925

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

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

P 13380 2
P 13381
1
05/6/2024

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.)

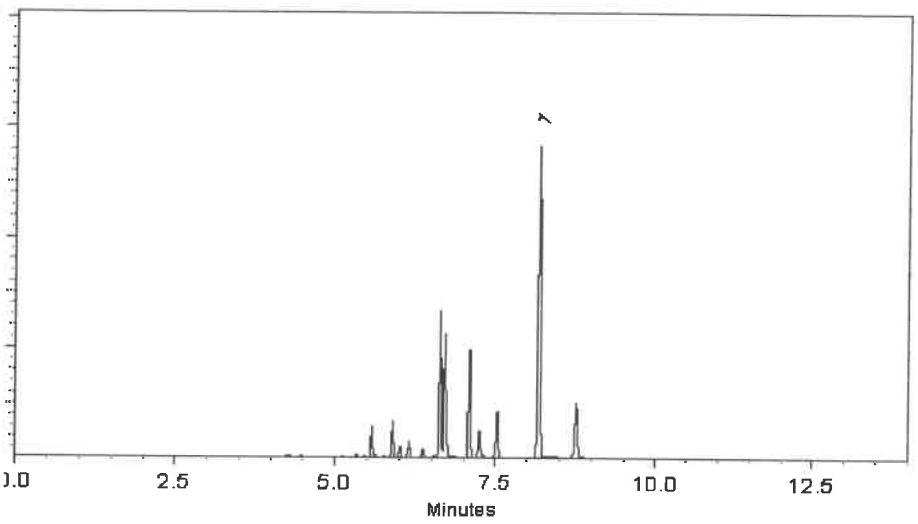
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
Split ratio 500:1

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.

Michael Maye - Operations Tech I

Date Mixed: 06-Feb-2024 **Balance Serial #** B442140311

Dillan Murphy - Operations Technician I

Date Passed: 09-Feb-2024

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

P13380 (2)
↓
P13381
1

05/6/2024

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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. : 32011 **Lot No.:** A0212239

Description : Aroclor® 1254 Standard

Aroclor® 1254 Standard 1,000 µg/mL, Hexane, 1mL/ampul

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

Expiration Date : August 31, 2030 **Storage:** 25°C nominal

Handling: This product contains PCBs. **Ship:** Ambient

P13704
P13705
Y.P.
10/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Aroclor 1254	11097-69-1	124-191-B	----%	1,002.0 µg/mL	+/- 55.6035

* 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.)

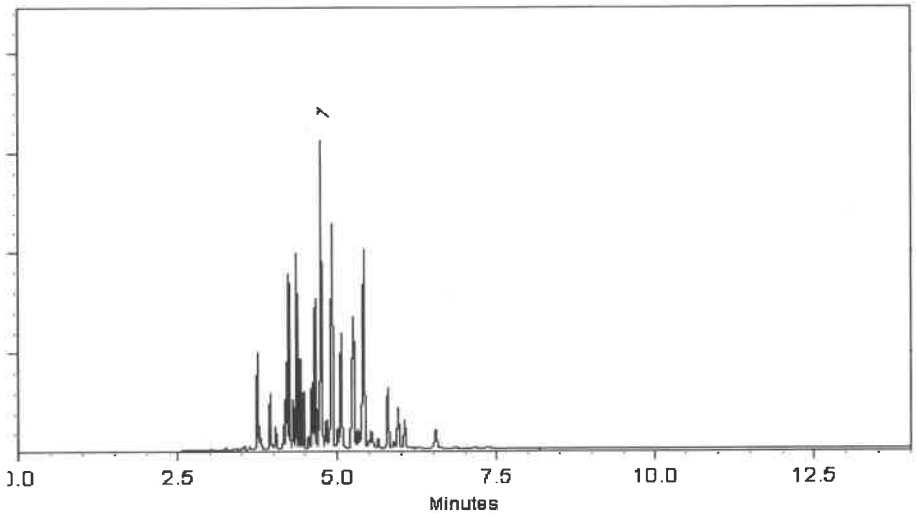
Inj. Temp:
250°C

Det. Temp:
300°C

Det. Type:
ECD

Split Vent:
300 ml/min.

Inj. Vol
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.

Russ Bookhamer - Operations Technician I

Date Mixed: 30-May-2024 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 03-Jun-2024

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

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

Handling Notes:

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

SHIPPING DOCUMENTS

#1

CHEMTECH

CHAIN OF CUSTODY RECORD

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

Chemtech Project Number: Q1370

COC Number:

CLIENT INFORMATION

Report to be sent to:

COMPANY: Chemtech
ADDRESS: 284 Sheffield Street
CITY: Mountainside STATE: NJ ZIP: 08816
ATTENTION: QA Officer
PHONE: (908) 789-8900 FAX: (908) 789-8922

PROJECT INFORMATION

PROJECT NAME: Weekly Storage Blanks
PROJECT #: LOCATION: NJ
PROJECT MANAGER:
E-MAIL:
PHONE: FAX:

BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

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

DATA DELIVERABLE INFORMATION

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

ANALYSIS

1. VOC-Part in Kit
2. SVOC-Full+25 8270
3. Pesticide-TCL
4. PCB
5.
6.
7.
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: A/E	1	2	3	4	5	6	7	8	9
1.	Storage-Blank-SOIL-REF-6	AQ		X			2	X									
2.	Storage-Blank-WATER-REF-5	AQ		X			2	X									
3.	Storage-Blank-WATER-REF-4	AQ		X			2	X									
4.	Storage-Blank-SAMPLE-MANAGEMENT	AQ		X			2	X									
5.	SVOC-GPC-BLANK	SO		X			1		X								
6.	PEST-GPC-BLANK	SO		X			1			X							
7.	PEST-GPC-BLANK-SPIKE	SO		X			1			X							
8.	PCB-GPC-BLANK	SO		X			1				X						
9.	PCB-GPC-BLANK-SPIKE	SO		X			1				X						
10.	SVOC-GPC2-BLANK	SO		X			1		X								

PRESERVATIVES: A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER

COMMENTS: <--Specify Preservatives

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

RELINQUISHED BY SAMPLER	DATE/TIME	RECEIVED BY
1.		1.
RELINQUISHED BY	DATE/TIME	RECEIVED BY
2.		2.
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY
3.		3.

Conditions of bottles or coolers at receipt: ☑ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 6.0

Comments:

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

Shipment Complete ☑ YES ☐ NO

10/2018

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

2/14

#2

CHEMTECH
CHAIN OF CUSTODY RECORD

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

Chemtech Project Number: Q1370
COC Number:

CLIENT INFORMATION

Report to be sent to:
COMPANY: CHEMTECH
ADDRESS: 284 Sheffield Street
CITY: Mountainside STATE: NJ ZIP: 07092
ATTENTION: QA Officer
PHONE: 908-789-8900 FAX: 908-789-8922

PROJECT INFORMATION

PROJECT NAME: Weekly Storage Blanks
PROJECT #: LOCATION: NJ
PROJECT MANAGER:
E-MAIL:
PHONE: FAX:

BILLING INFORMATION

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

DATA TURNAROUND INFORMATION

FAX (RUSH): DAYS*
HARDCOPY (DATA PACKAGE): 15 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)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS: 1 VOC-Drinking H2O; 2 SVOC-8270-SIM; 3 PESTS-CL8081; 4 PCB; 5; 6; 7; 8; 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	COMP	GRAB	DATE	TIME	# of Bottles	1 (A, E)	2	3	4	5	6	7	8	9	COMMENTS
1.	PEST-GRC2-BLANK	SO		X			1			X							
2.	PEST-GRC2-BLANK-SPIKE	SO		X			1			X							
3.	PCB-GRC2-BLANK	SO		X			1				X						
4.	PCB-GRC2-BLANK-SPIKE	SO		X			1				X						
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

PRESERVATIVES — Specify Preservatives: A-HCl, B-HNO3, C-H2SO4, D-NaOH, E-ICE, F-OTHER

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

RELINQUISHED BY	DATE/TIME	RECEIVED BY
RELINQUISHED BY SAMPLER 1.		1.
RELINQUISHED BY 2.		2.
RELINQUISHED BY 3.		RECEIVED FOR LAB BY 3.

Conditions of bottles of coolers at receipt: ☑ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 6.0°
Comments:

Page 2 of 2

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

Shipment Complete ☑ YES ☐ NO

10/2018

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

2/14

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