



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

Hit Summary Sheet
SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	BR-01-190-120225							
Q3756-03	BR-01-190-120225	Water	Vinyl Chloride	25.4		0.26	1.00	ug/L
			Total Voc :	25.4				
			Total Concentration:	25.4				



SAMPLE DATA



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: OW-04B-26.5-120225
Lab Sample ID: Q3756-01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/02/25
Date Received: 12/02/25
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 15:26	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:26	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:26	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:26	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:26	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:26	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:26	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:26	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.4			70 (74) - 130 (125)	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.7			70 (75) - 130 (124)	93%	SPK: 50		
2037-26-5	Toluene-d8	44.4			70 (86) - 130 (113)	89%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	244000							
540-36-3	1,4-Difluorobenzene	556000							
3114-55-4	Chlorobenzene-d5	547000							
3855-82-1	1,4-Dichlorobenzene-d4	269000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: BR-01-190-120225
 Lab Sample ID: Q3756-03
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	25.4		1	0.26	1.00	ug/L	12/04/25 15:06	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:06	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:06	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:06	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:06	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:06	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:06	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:06	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.2			70 (74) - 130 (125)	112%	SPK: 50		
1868-53-7	Dibromofluoromethane	46.0			70 (75) - 130 (124)	92%	SPK: 50		
2037-26-5	Toluene-d8	44.0			70 (86) - 130 (113)	88%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.7			70 (77) - 130 (121)	105%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	246000							
540-36-3	1,4-Difluorobenzene	564000							
3114-55-4	Chlorobenzene-d5	564000							
3855-82-1	1,4-Dichlorobenzene-d4	278000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-04-12-120225
 Lab Sample ID: Q3756-05
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 15:47	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 15:47	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 15:47	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 15:47	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 15:47	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 15:47	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 15:47	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 15:47	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.2			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.1			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.7			70 (86) - 130 (113)	91%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.8			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	469000							
3114-55-4	Chlorobenzene-d5	455000							
3855-82-1	1,4-Dichlorobenzene-d4	221000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-13B-47.5-120225
 Lab Sample ID: Q3756-07
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 16:07	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 16:07	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 16:07	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 16:07	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 16:07	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 16:07	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 16:07	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 16:07	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	55.7			70 (74) - 130 (125)	111%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.2			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	45.2			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.7			70 (77) - 130 (121)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	206000							
540-36-3	1,4-Difluorobenzene	472000							
3114-55-4	Chlorobenzene-d5	469000							
3855-82-1	1,4-Dichlorobenzene-d4	223000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: EB01-120225
 Lab Sample ID: Q3756-09
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 12:52	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 12:52	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 12:52	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 12:52	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 12:52	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 12:52	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 12:52	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 12:52	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.9			70 (74) - 130 (125)	118%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.4			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	46.8			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.6			70 (77) - 130 (121)	97%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	174000							
540-36-3	1,4-Difluorobenzene	400000							
3114-55-4	Chlorobenzene-d5	396000							
3855-82-1	1,4-Dichlorobenzene-d4	183000							

U = Not Detected

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N = Presumptive Evidence of a Compound

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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: TB01-120225
Lab Sample ID: Q3756-10
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/02/25
Date Received: 12/02/25
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 13:12	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 13:12	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 13:12	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 13:12	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 13:12	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 13:12	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 13:12	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 13:12	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	65.5	*		70 (74) - 130 (125)	131%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.8			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	48.2			70 (86) - 130 (113)	96%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.9			70 (77) - 130 (121)	102%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	192000							
540-36-3	1,4-Difluorobenzene	468000							
3114-55-4	Chlorobenzene-d5	465000							
3855-82-1	1,4-Dichlorobenzene-d4	219000							

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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: TB01-120225RE
Lab Sample ID: Q3756-10RE
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/02/25
Date Received: 12/02/25
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 16:58	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 16:58	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 16:58	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 16:58	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 16:58	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 16:58	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 16:58	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 16:58	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.6			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	44.8			70 (75) - 130 (124)	90%	SPK: 50		
2037-26-5	Toluene-d8	42.0			70 (86) - 130 (113)	84%	SPK: 50		
460-00-4	4-Bromofluorobenzene	44.1			70 (77) - 130 (121)	88%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	224000							
540-36-3	1,4-Difluorobenzene	518000							
3114-55-4	Chlorobenzene-d5	519000							
3855-82-1	1,4-Dichlorobenzene-d4	246000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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QC SUMMARY

Surrogate Summary

SDG No.: **Q3756**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3756-01	OW-04B-26.5-120225	1,2-Dichloroethane-d4	50	56.4	113		70 (74)	130 (125)
		Dibromofluoromethane	50	46.7	93		70 (75)	130 (124)
		Toluene-d8	50	44.4	89		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)
Q3756-03	BR-01-190-120225	1,2-Dichloroethane-d4	50	56.2	112		70 (74)	130 (125)
		Dibromofluoromethane	50	46.0	92		70 (75)	130 (124)
		Toluene-d8	50	44.0	88		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.7	105		70 (77)	130 (121)
Q3756-05	MW-04-12-120225	1,2-Dichloroethane-d4	50	55.2	110		70 (74)	130 (125)
		Dibromofluoromethane	50	47.1	94		70 (75)	130 (124)
		Toluene-d8	50	45.7	91		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.8	102		70 (77)	130 (121)
Q3756-07	MW-13B-47.5-120225	1,2-Dichloroethane-d4	50	55.7	111		70 (74)	130 (125)
		Dibromofluoromethane	50	47.2	94		70 (75)	130 (124)
		Toluene-d8	50	45.2	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.6	101		70 (77)	130 (121)
Q3756-09	EB01-120225	1,2-Dichloroethane-d4	50	58.9	118		70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101		70 (75)	130 (124)
		Toluene-d8	50	46.8	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.6	97		70 (77)	130 (121)
Q3756-10	TB01-120225	1,2-Dichloroethane-d4	50	65.5	131	*	70 (74)	130 (125)
		Dibromofluoromethane	50	51.8	104		70 (75)	130 (124)
		Toluene-d8	50	48.2	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102		70 (77)	130 (121)
Q3756-10RE	TB01-120225RE	1,2-Dichloroethane-d4	50	54.6	109		70 (74)	130 (125)
		Dibromofluoromethane	50	44.8	90		70 (75)	130 (124)
		Toluene-d8	50	42.0	84		70 (86)	130 (113)
		4-Bromofluorobenzene	50	44.1	88		70 (77)	130 (121)
VN1203WBL01	VN1203WBL01	1,2-Dichloroethane-d4	50	59.5	119		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	47.6	95		70 (86)	130 (113)
		4-Bromofluorobenzene	50	47.1	94		70 (77)	130 (121)
VN1203WBS01	VN1203WBS01	1,2-Dichloroethane-d4	50	54.3	109		70 (74)	130 (125)
		Dibromofluoromethane	50	51.3	103		70 (75)	130 (124)
		Toluene-d8	50	49.5	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99		70 (77)	130 (121)
VN1203WBSD0	VN1203WBSD01	1,2-Dichloroethane-d4	50	54.9	110		70 (74)	130 (125)
		Dibromofluoromethane	50	51.9	104		70 (75)	130 (124)
		Toluene-d8	50	52.0	104		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.2	104		70 (77)	130 (121)
VN1204WBL01	VN1204WBL01	1,2-Dichloroethane-d4	50	61.7	123		70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102		70 (75)	130 (124)
		Toluene-d8	50	46.7	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.9	100		70 (77)	130 (121)
VN1204WBS01	VN1204WBS01	1,2-Dichloroethane-d4	50	53.8	108		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	51.7	103		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.4	109		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3756</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088419.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1203WBS01	Vinyl chloride	20	19.5	ug/L	98			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.9	ug/L	95			70 (74)	130 (110)	
	1,1-Dichloroethane	20	21.6	ug/L	108			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	20.7	ug/L	104			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	20.3	ug/L	102			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.3	ug/L	112			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.1	ug/L	106			70 (83)	130 (112)	
	Tetrachloroethene	20	16.5	ug/L	83			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3756</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088432.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1203WBSD01	Vinyl chloride	20	20.5	ug/L	103	5		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	21.2	ug/L	106	11		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	21.6	ug/L	108	0		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	20.8	ug/L	104	0		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	21.9	ug/L	110	6		70 (80)	130 (108)	20 (20)
	Benzene	20	20.2	ug/L	101	1		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	22.4	ug/L	112	0		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	19.0	ug/L	95	1		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	21.4	ug/L	107	1		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	16.7	ug/L	84	1		70 (67)	130 (123)	20 (15)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3756</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088443.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1204WBS01	Vinyl chloride	20	20.3	ug/L	102			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.4	ug/L	102			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.6	ug/L	98			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.0	ug/L	95			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.7	ug/L	104			70 (80)	130 (108)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	20.8	ug/L	104			70 (80)	130 (115)	
	Trichloroethene	20	18.3	ug/L	92			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.9	ug/L	100			70 (83)	130 (112)	
	Tetrachloroethene	20	18.1	ug/L	91			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1203WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088418.D

Lab Sample ID: VN1203WBL01

Date Analyzed: 12/03/2025

Time Analyzed: 11:03

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025
EB01-120225	Q3756-09	VN088422.D	12/03/2025
TB01-120225	Q3756-10	VN088423.D	12/03/2025
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1204WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088439.D

Lab Sample ID: VN1204WBL01

Date Analyzed: 12/04/2025

Time Analyzed: 12:38

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088343.D

BFB Injection Date: 11/24/2025

Instrument ID: MSVOA_N

BFB Injection Time: 08:17

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	56.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	70.8
175	5.0 - 9.0% of mass 174	6 (8.4) 1
176	95.0 - 101.0% of mass 174	68.3 (96.4) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN088344.D	11/24/2025	12:38
VSTDIC005	VSTDIC005	VN088345.D	11/24/2025	13:11
VSTDIC020	VSTDIC020	VN088346.D	11/24/2025	13:32
VSTDIC050	VSTDIC050	VN088347.D	11/24/2025	13:53
VSTDIC100	VSTDIC100	VN088348.D	11/24/2025	14:14
VSTDIC150	VSTDIC150	VN088349.D	11/24/2025	14:35

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088415.D

BFB Injection Date: 12/03/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:36

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	58.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 100.0% of mass 95	65.8
175	5.0 - 9.0% of mass 174	4.5 (6.9) 1
176	95.0 - 101.0% of mass 174	63.6 (96.5) 1
177	5.0 - 9.0% of mass 176	3.7 (5.9) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088416.D	12/03/2025	10:09
VN1203WBL01	VN1203WBL01	VN088418.D	12/03/2025	11:03
VN1203WBS01	VN1203WBS01	VN088419.D	12/03/2025	11:38
EB01-120225	Q3756-09	VN088422.D	12/03/2025	12:52
TB01-120225	Q3756-10	VN088423.D	12/03/2025	13:12
VN1203WBSD01	VN1203WBSD01	VN088432.D	12/03/2025	16:17
TB01-120225RE	Q3756-10RE	VN088434.D	12/03/2025	16:58

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VN088436.D

BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_N

BFB Injection Time: 11:03

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	59.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	70.2
175	5.0 - 9.0% of mass 174	5.8 (8.3) 1
176	95.0 - 101.0% of mass 174	67.6 (96.3) 1
177	5.0 - 9.0% of mass 176	4.3 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN088437.D	12/04/2025	11:44
VN1204WBL01	VN1204WBL01	VN088439.D	12/04/2025	12:38
VN1204WBS01	VN1204WBS01	VN088443.D	12/04/2025	14:12
BR-01-190-120225	Q3756-03	VN088445.D	12/04/2025	15:06
OW-04B-26.5-120225	Q3756-01	VN088446.D	12/04/2025	15:26
MW-04-12-120225	Q3756-05	VN088447.D	12/04/2025	15:47
MW-13B-47.5-120225	Q3756-07	VN088448.D	12/04/2025	16:07

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG NO.: Q3756
 Lab File ID: VN088416.D Date Analyzed: 12/03/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:09
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	266209	8.21	462230	9.08	427792	11.84
UPPER LIMIT	532418	8.706	924460	9.583	855584	12.341
LOWER LIMIT	133105	7.706	231115	8.583	213896	11.341
EPA SAMPLE NO.						
EB01-120225	173573	8.21	400248	9.08	396303	11.84
TB01-120225	192200	8.21	468050	9.08	464764	11.84
TB01-120225RE	223956	8.21	518301	9.08	518638	11.84
VN1203WBL01	179578	8.21	416539	9.08	402638	11.84
VN1203WBS01	204614	8.21	382235	9.08	345174	11.84
VN1203WBSD01	250101	8.21	473571	9.08	423667	11.84

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JACO05</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3756</u>
Lab File ID:	<u>VN088416.D</u>	Date Analyzed:	<u>12/03/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>10:09</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	213345	13.765				
UPPER LIMIT	426690	14.265				
LOWER LIMIT	106673	13.265				
EPA SAMPLE NO.						
EB01-120225	182664	13.77				
TB01-120225	219360	13.77				
TB01-120225RE	245675	13.77				
VN1203WBL01	186090	13.77				
VN1203WBS01	173546	13.77				
VN1203WBSD01	214103	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG NO.: Q3756
 Lab File ID: VN088437.D Date Analyzed: 12/04/2025
 Instrument ID: MSVOA_N Time Analyzed: 11:44
 GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	259230	8.21	454552	9.08	431157	11.84
UPPER LIMIT	518460	8.706	909104	9.577	862314	12.341
LOWER LIMIT	129615	7.706	227276	8.577	215579	11.341
EPA SAMPLE NO.						
OW-04B-26.5-120225	243663	8.21	555543	9.08	546868	11.84
BR-01-190-120225	246275	8.21	564051	9.08	564375	11.84
MW-04-12-120225	206051	8.21	468908	9.08	455230	11.84
MW-13B-47.5-120225	206071	8.21	471902	9.08	469221	11.84
VN1204WBL01	236600	8.21	556948	9.08	555675	11.84
VN1204WBS01	303745	8.21	559564	9.08	491842	11.84

IS1 = Pentafluorobenzene
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JACO05</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q3756</u>
Lab File ID:	<u>VN088437.D</u>	Date Analyzed:	<u>12/04/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>11:44</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	210277	13.765				
UPPER LIMIT	420554	14.265				
LOWER LIMIT	105139	13.265				
EPA SAMPLE NO.						
OW-04B-26.5-120225	268660	13.76				
BR-01-190-120225	278056	13.77				
MW-04-12-120225	220606	13.77				
MW-13B-47.5-120225	222578	13.77				
VN1204WBL01	258091	13.77				
VN1204WBS01	237731	13.77				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VN1203WBL01
 Lab Sample ID: VN1203WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/03/25 11:03	VN120325
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/03/25 11:03	VN120325
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/03/25 11:03	VN120325
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/03/25 11:03	VN120325
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/03/25 11:03	VN120325
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/03/25 11:03	VN120325
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/03/25 11:03	VN120325
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/03/25 11:03	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	59.5			70 (74) - 130 (125)	119%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	47.6			70 (86) - 130 (113)	95%	SPK: 50		
460-00-4	4-Bromofluorobenzene	47.1			70 (77) - 130 (121)	94%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	180000							
540-36-3	1,4-Difluorobenzene	417000							
3114-55-4	Chlorobenzene-d5	403000							
3855-82-1	1,4-Dichlorobenzene-d4	186000							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1204WBL01
Lab Sample ID: VN1204WBL01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	0.26	U	1	0.26	1.00	ug/L	12/04/25 12:38	VN120425
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/04/25 12:38	VN120425
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/04/25 12:38	VN120425
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/04/25 12:38	VN120425
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/04/25 12:38	VN120425
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/04/25 12:38	VN120425
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/04/25 12:38	VN120425
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/04/25 12:38	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	61.7			70 (74) - 130 (125)	123%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	46.7			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.9			70 (77) - 130 (121)	100%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	237000							
540-36-3	1,4-Difluorobenzene	557000							
3114-55-4	Chlorobenzene-d5	556000							
3855-82-1	1,4-Dichlorobenzene-d4	258000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VN1203WBS01
 Lab Sample ID: VN1203WBS01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	19.5		1	0.26	1.00	ug/L	12/03/25 11:38	VN120325
75-35-4	1,1-Dichloroethene	18.9		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
156-59-2	cis-1,2-Dichloroethene	20.7		1	0.19	1.00	ug/L	12/03/25 11:38	VN120325
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/03/25 11:38	VN120325
71-43-2	Benzene	20.3		1	0.15	1.00	ug/L	12/03/25 11:38	VN120325
107-06-2	1,2-Dichloroethane	22.3		1	0.22	1.00	ug/L	12/03/25 11:38	VN120325
79-01-6	Trichloroethene	19.2		1	0.090	1.00	ug/L	12/03/25 11:38	VN120325
79-00-5	1,1,2-Trichloroethane	21.1		1	0.21	1.00	ug/L	12/03/25 11:38	VN120325
127-18-4	Tetrachloroethene	16.5		1	0.23	1.00	ug/L	12/03/25 11:38	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.3			70 (74) - 130 (125)	109%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.3			70 (75) - 130 (124)	103%	SPK: 50		
2037-26-5	Toluene-d8	49.5			70 (86) - 130 (113)	99%	SPK: 50		
460-00-4	4-Bromofluorobenzene	49.3			70 (77) - 130 (121)	99%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	205000							
540-36-3	1,4-Difluorobenzene	382000							
3114-55-4	Chlorobenzene-d5	345000							
3855-82-1	1,4-Dichlorobenzene-d4	174000							

U = Not Detected

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



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

Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1204WBS01
Lab Sample ID: VN1204WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3756
Matrix: Water
% Solid: 0
Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.3		1	0.26	1.00	ug/L	12/04/25 14:12	VN120425
75-35-4	1,1-Dichloroethene	20.4		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
75-34-3	1,1-Dichloroethane	19.6		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
156-59-2	cis-1,2-Dichloroethene	19.0		1	0.19	1.00	ug/L	12/04/25 14:12	VN120425
71-55-6	1,1,1-Trichloroethane	20.7		1	0.20	1.00	ug/L	12/04/25 14:12	VN120425
71-43-2	Benzene	19.3		1	0.15	1.00	ug/L	12/04/25 14:12	VN120425
107-06-2	1,2-Dichloroethane	20.8		1	0.22	1.00	ug/L	12/04/25 14:12	VN120425
79-01-6	Trichloroethene	18.3		1	0.090	1.00	ug/L	12/04/25 14:12	VN120425
79-00-5	1,1,2-Trichloroethane	19.9		1	0.21	1.00	ug/L	12/04/25 14:12	VN120425
127-18-4	Tetrachloroethene	18.1		1	0.23	1.00	ug/L	12/04/25 14:12	VN120425
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	53.8			70 (74) - 130 (125)	108%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.7			70 (75) - 130 (124)	101%	SPK: 50		
2037-26-5	Toluene-d8	51.7			70 (86) - 130 (113)	103%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.4			70 (77) - 130 (121)	109%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	304000							
540-36-3	1,4-Difluorobenzene	560000							
3114-55-4	Chlorobenzene-d5	492000							
3855-82-1	1,4-Dichlorobenzene-d4	238000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VN1203WBSD01
 Lab Sample ID: VN1203WBSD01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOCMS Group3

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl Chloride	20.5		1	0.26	1.00	ug/L	12/03/25 16:17	VN120325
75-35-4	1,1-Dichloroethene	21.2		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
75-34-3	1,1-Dichloroethane	21.6		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
156-59-2	cis-1,2-Dichloroethene	20.8		1	0.19	1.00	ug/L	12/03/25 16:17	VN120325
71-55-6	1,1,1-Trichloroethane	21.9		1	0.20	1.00	ug/L	12/03/25 16:17	VN120325
71-43-2	Benzene	20.2		1	0.15	1.00	ug/L	12/03/25 16:17	VN120325
107-06-2	1,2-Dichloroethane	22.4		1	0.22	1.00	ug/L	12/03/25 16:17	VN120325
79-01-6	Trichloroethene	19.0		1	0.090	1.00	ug/L	12/03/25 16:17	VN120325
79-00-5	1,1,2-Trichloroethane	21.4		1	0.21	1.00	ug/L	12/03/25 16:17	VN120325
127-18-4	Tetrachloroethene	16.7		1	0.23	1.00	ug/L	12/03/25 16:17	VN120325
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	54.9			70 (74) - 130 (125)	110%	SPK: 50		
1868-53-7	Dibromofluoromethane	51.9			70 (75) - 130 (124)	104%	SPK: 50		
2037-26-5	Toluene-d8	52.0			70 (86) - 130 (113)	104%	SPK: 50		
460-00-4	4-Bromofluorobenzene	52.2			70 (77) - 130 (121)	104%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	250000							
540-36-3	1,4-Difluorobenzene	474000							
3114-55-4	Chlorobenzene-d5	424000							
3855-82-1	1,4-Dichlorobenzene-d4	214000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3756</u>
Instrument ID: <u>MSVOA_N</u>	Calibration Date(s): <u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>12:38</u> <u>14:35</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF001 = VN088344.D		RRF005 = VN088345.D		RRF020 = VN088346.D		
		RRF050 = VN088347.D		RRF100 = VN088348.D		RRF150 = VN088349.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.8
1,1-Dichloroethene	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.8
1,1-Dichloroethane	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.3
cis-1,2-Dichloroethene	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.2
1,1,1-Trichloroethane	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.3
Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.9
1,2-Dichloroethane	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.3
Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.1
1,1,2-Trichloroethane	0.350	0.359	0.364	0.353	0.341	0.336	0.351	3
Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.7
1,2-Dichloroethane-d4		0.954	0.916	0.999	0.882	0.960	0.942	4.7
Dibromofluoromethane		0.361	0.350	0.350	0.334	0.337	0.346	3.2
Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	2
4-Bromofluorobenzene		0.402	0.413	0.448	0.466	0.482	0.442	7.7

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/03/2025</u> <u>10:09</u>
Lab File ID:	<u>VN088416.D</u>	Init. Calib. Date(s):	<u>11/24/2025</u> <u>11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38</u> <u>14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.811		-1.22	20
1,1-Dichloroethene	0.610	0.613		0.49	20
1,1-Dichloroethane	1.367	1.405	0.1	2.78	20
cis-1,2-Dichloroethene	0.785	0.798		1.66	20
1,1,1-Trichloroethane	1.181	1.235		4.57	20
Benzene	1.570	1.684		7.26	20
1,2-Dichloroethane	0.599	0.684		14.19	20
Trichloroethene	0.371	0.368		-0.81	20
1,1,2-Trichloroethane	0.351	0.383		9.12	20
Tetrachloroethene	0.396	0.363		-8.33	20
1,2-Dichloroethane-d4	0.942	0.983		4.35	20
Dibromofluoromethane	0.346	0.378		9.25	20
Toluene-d8	1.289	1.390		7.84	20
4-Bromofluorobenzene	0.442	0.489		10.63	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/04/2025 11:44</u>
Lab File ID:	<u>VN088437.D</u>	Init. Calib. Date(s):	<u>11/24/2025 11/24/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>12:38 14:35</u>
GC Column:	<u>RXI-624</u>	ID:	<u>0.25</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.821	0.817		-0.49	20
1,1-Dichloroethene	0.610	0.619		1.48	20
1,1-Dichloroethane	1.367	1.487	0.1	8.78	20
cis-1,2-Dichloroethene	0.785	0.832		5.99	20
1,1,1-Trichloroethane	1.181	1.277		8.13	20
Benzene	1.570	1.743		11.02	20
1,2-Dichloroethane	0.599	0.729		21.7	20
Trichloroethene	0.371	0.385		3.77	20
1,1,2-Trichloroethane	0.351	0.402		14.53	20
Tetrachloroethene	0.396	0.360		-9.09	20
1,2-Dichloroethane-d4	0.942	1.041		10.51	20
Dibromofluoromethane	0.346	0.396		14.45	20
Toluene-d8	1.289	1.429		10.86	20
4-Bromofluorobenzene	0.442	0.507		14.71	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088446.D
 Acq On : 04 Dec 2025 15:26
 Operator : JC\MD
 Sample : Q3756-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OW-04B-26.5-120225

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:17:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	243663	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	555543	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	546868	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.764	152	268660	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258819	56.386	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.780%
35) Dibromofluoromethane	8.147	113	179703	46.677	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.360%
50) Toluene-d8	10.541	98	635634	44.374	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	88.740%
62) 4-Bromofluorobenzene	12.823	95	267239	54.372	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	108.740%

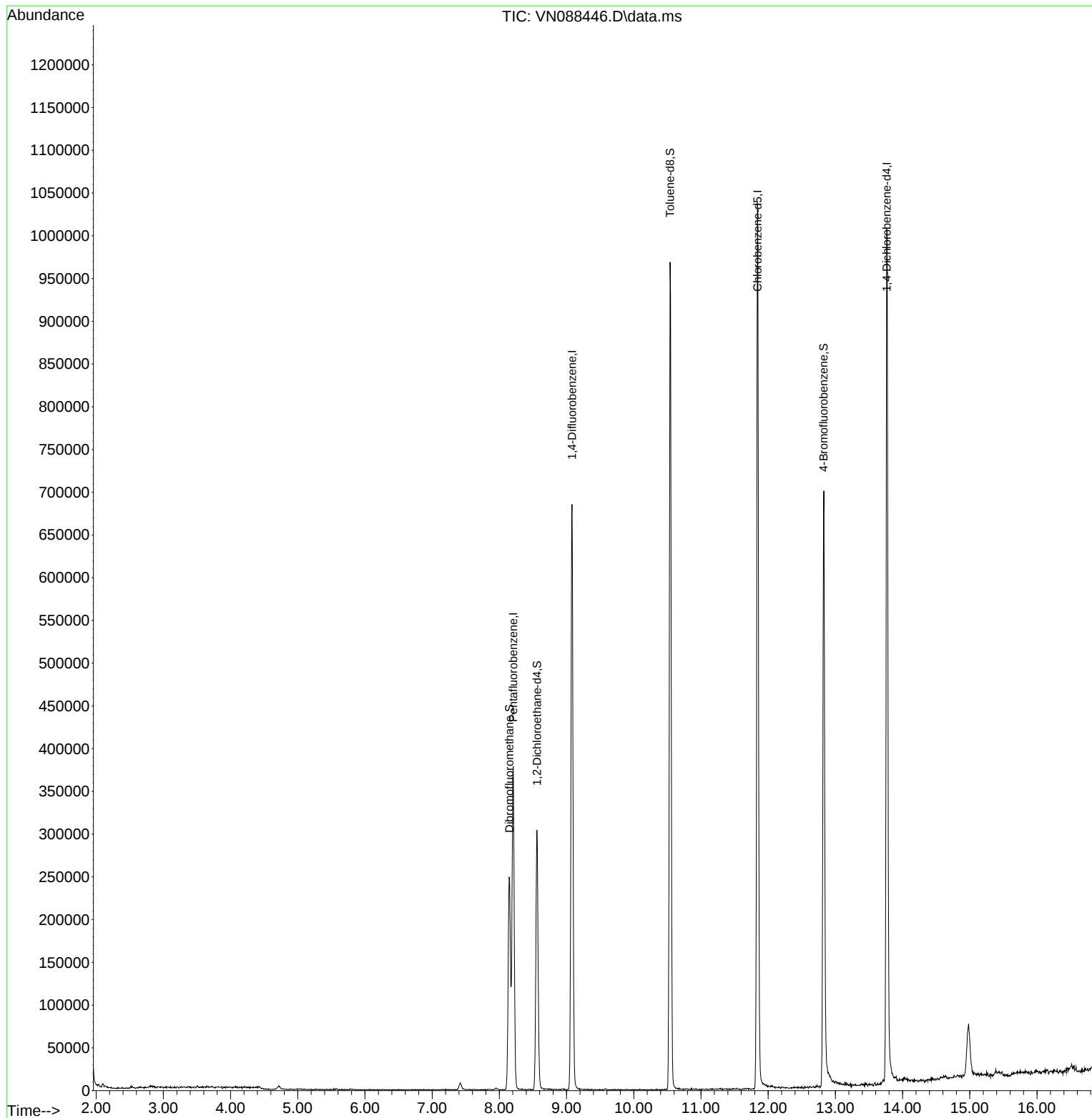
Target Compounds	Qvalue

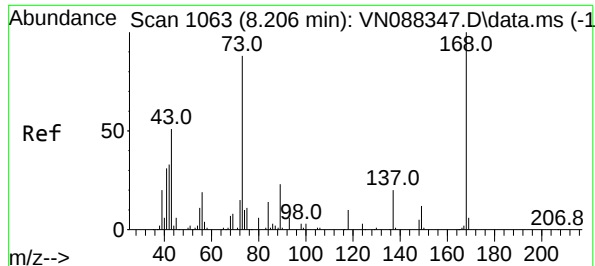
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088446.D
Acq On : 04 Dec 2025 15:26
Operator : JC\MD
Sample : Q3756-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 05 00:17:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

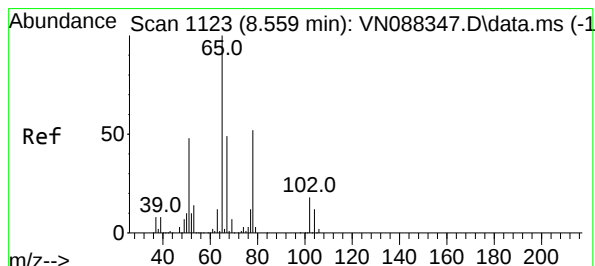
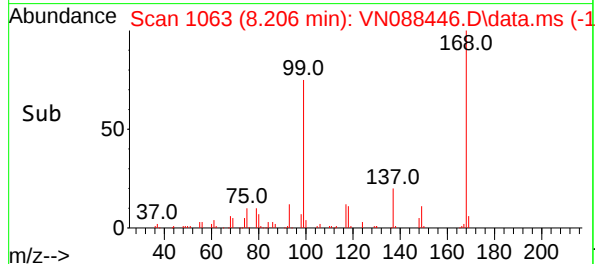
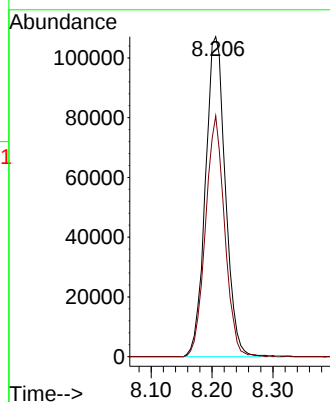
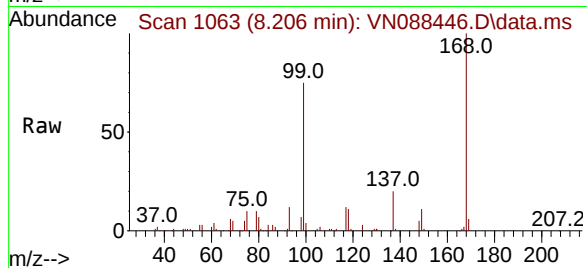




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

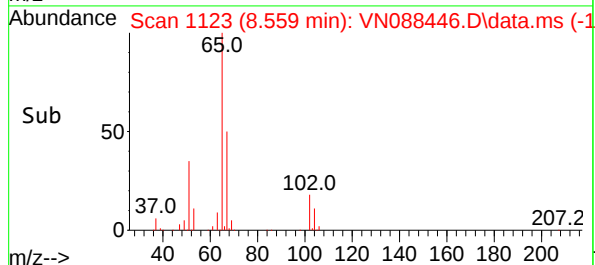
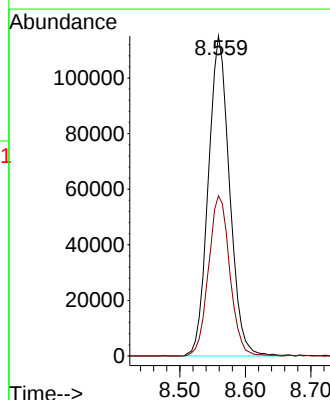
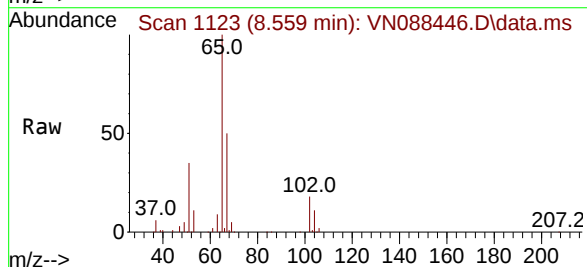
Instrument :
MSVOA_N
ClientSampleId :
OW-04B-26.5-120225

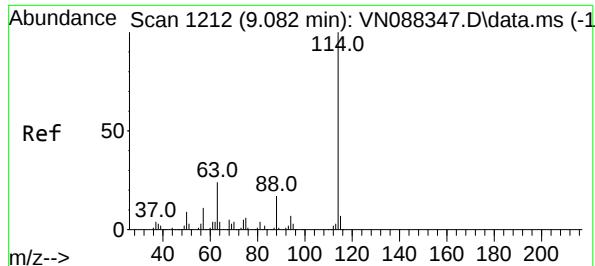
Tgt Ion:168 Resp: 243663
Ion Ratio Lower Upper
168 100
99 75.3 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 56.386 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088446.D
Acq: 04 Dec 2025 15:26

Tgt Ion: 65 Resp: 258819
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

OW-04B-26.5-120225

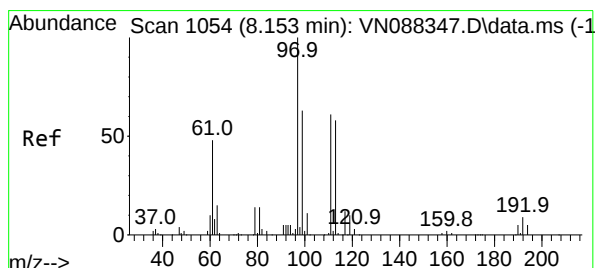
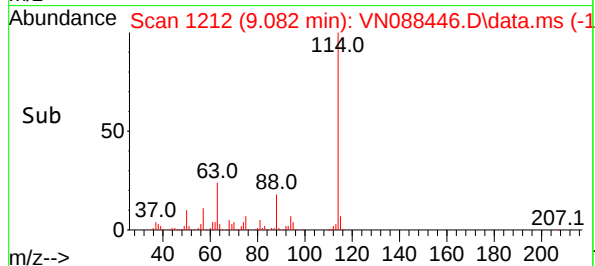
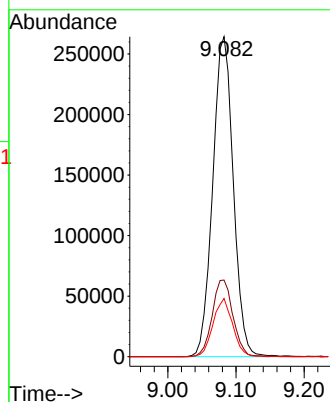
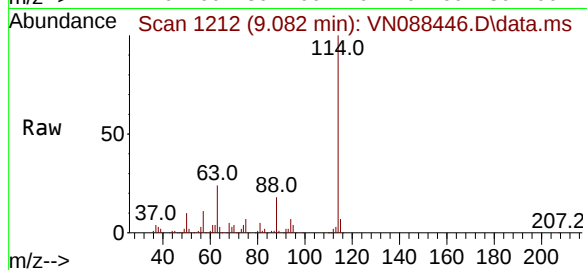
Tgt Ion:114 Resp: 555543

Ion Ratio Lower Upper

114 100

63 24.0 0.0 49.0

88 18.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 46.677 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

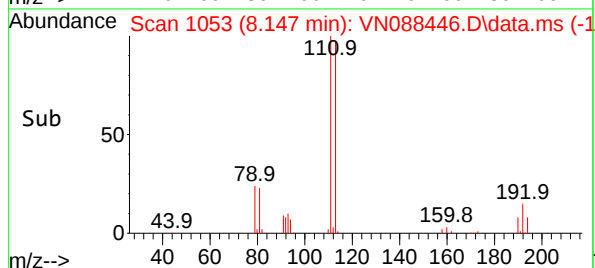
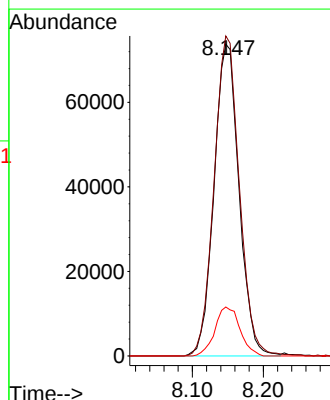
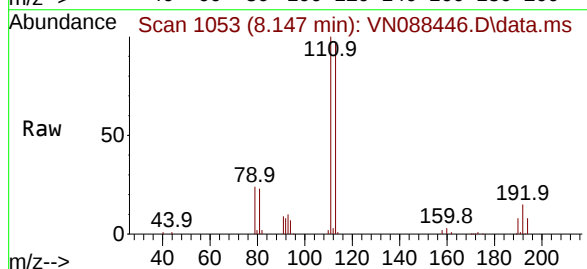
Tgt Ion:113 Resp: 179703

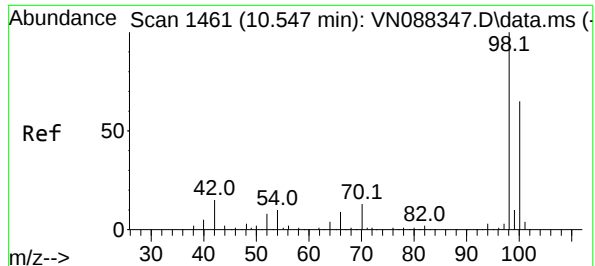
Ion Ratio Lower Upper

113 100

111 103.9 82.5 123.7

192 15.8 12.8 19.2





#50

Toluene-d8

Concen: 44.374 ug/l

RT: 10.541 min Scan# 1461

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

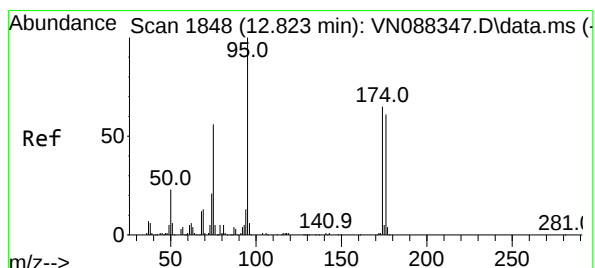
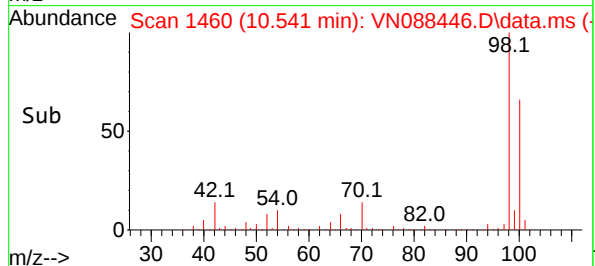
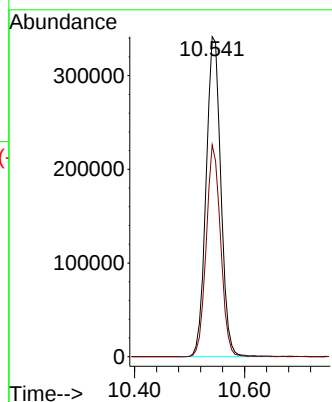
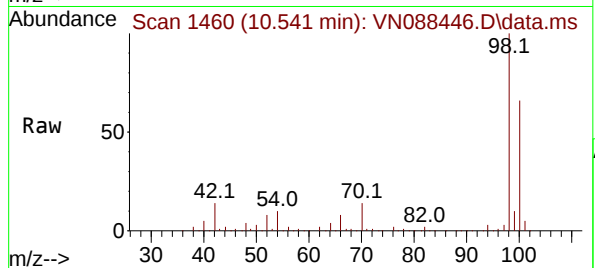
OW-04B-26.5-120225

Tgt Ion: 98 Resp: 635634

Ion Ratio Lower Upper

98 100

100 64.4 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 54.372 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. 0.000 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

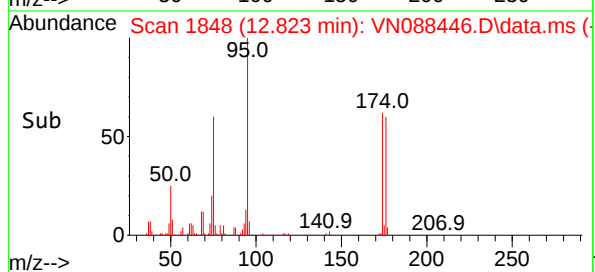
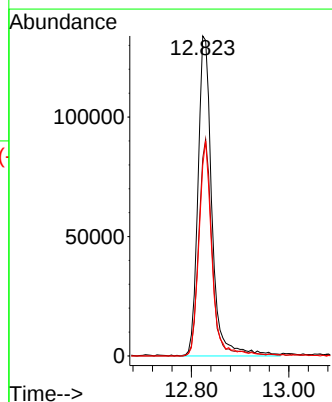
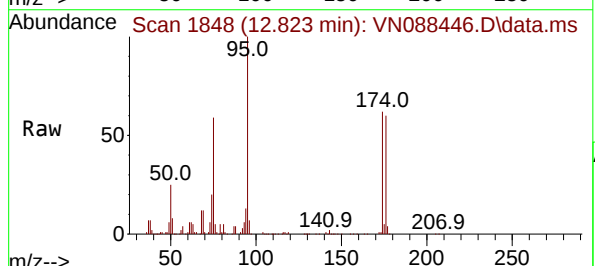
Tgt Ion: 95 Resp: 267239

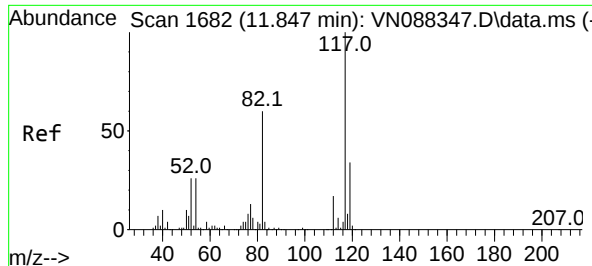
Ion Ratio Lower Upper

95 100

174 64.8 0.0 139.0

176 62.7 0.0 132.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

Instrument :

MSVOA_N

ClientSampleId :

OW-04B-26.5-120225

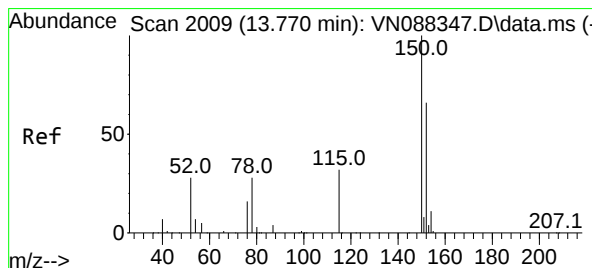
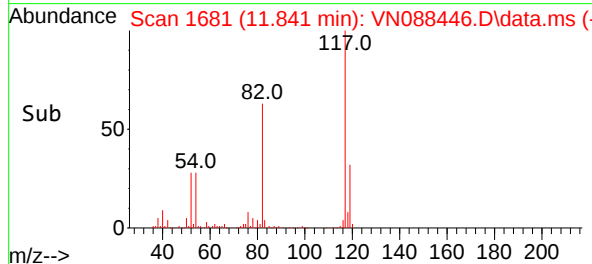
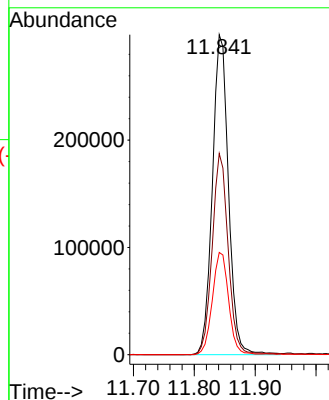
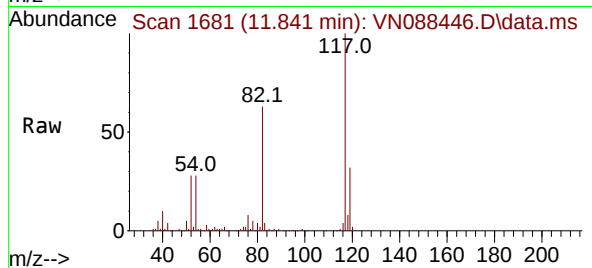
Tgt Ion:117 Resp: 546868

Ion Ratio Lower Upper

117 100

82 62.9 47.8 71.8

119 31.9 26.9 40.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.764 min Scan# 2008

Delta R.T. -0.006 min

Lab File: VN088446.D

Acq: 04 Dec 2025 15:26

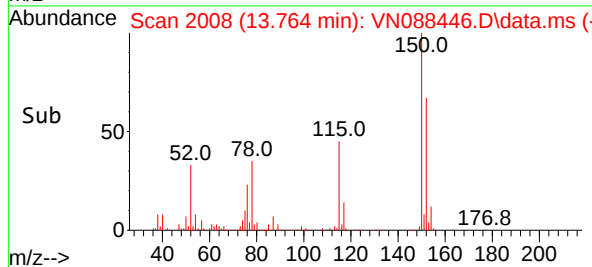
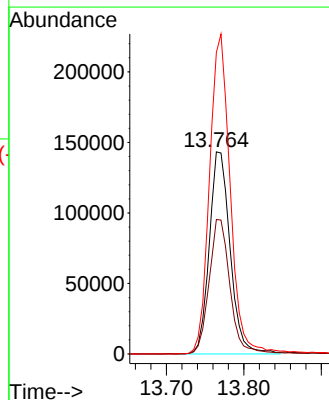
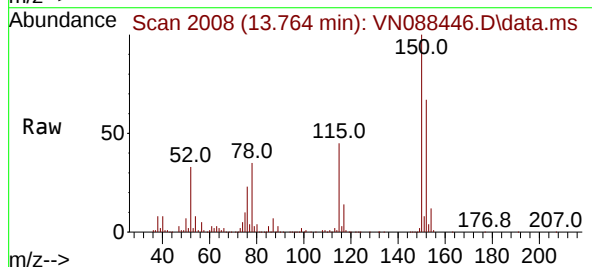
Tgt Ion:152 Resp: 268660

Ion Ratio Lower Upper

152 100

115 66.9 33.0 98.9

150 157.9 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088445.D
 Acq On : 04 Dec 2025 15:06
 Operator : JC\MD
 Sample : Q3756-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

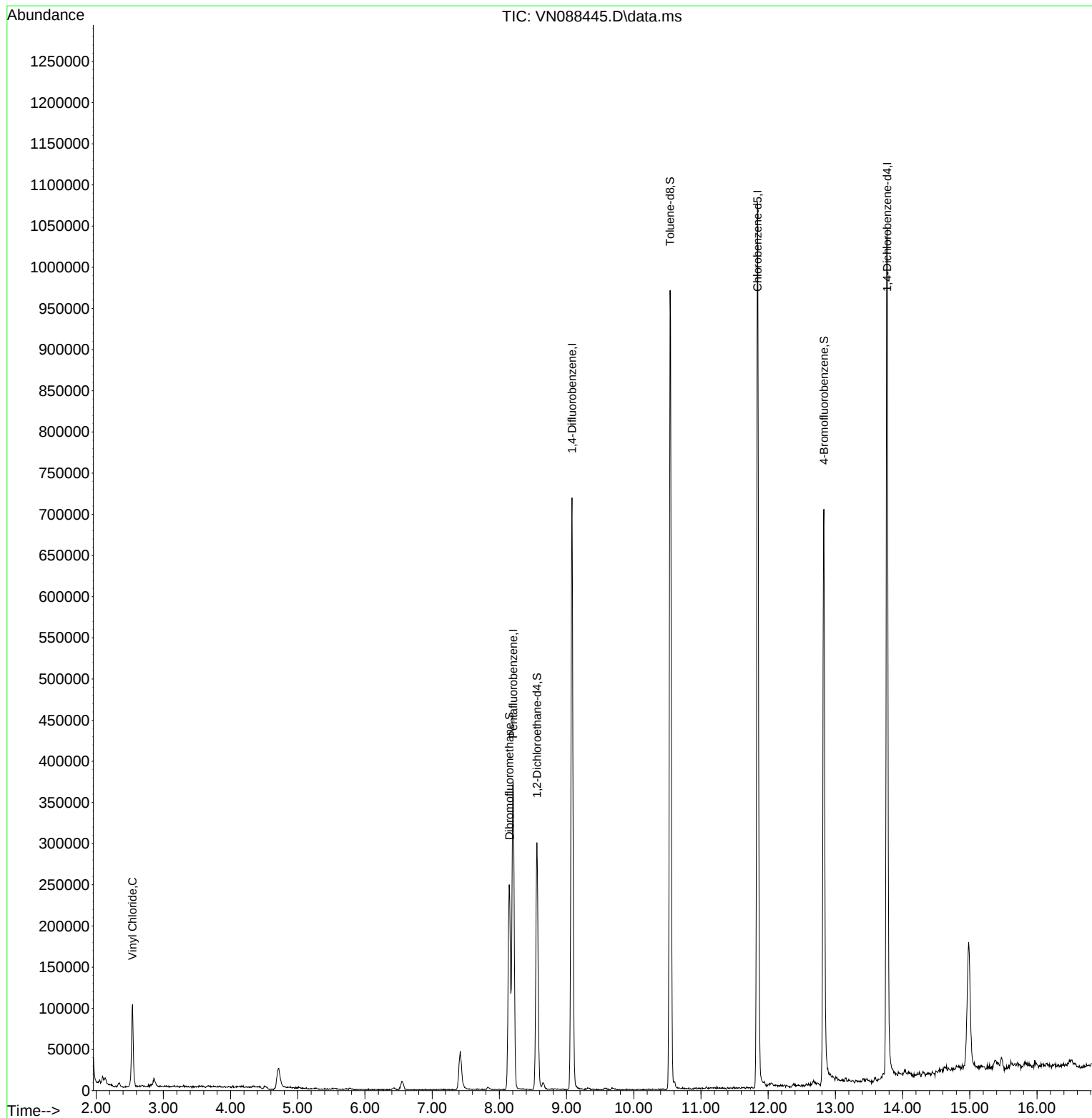
Internal Standards						
1) Pentafluorobenzene	8.206	168	246275	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	564051	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	564375	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	278056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	260534	56.158	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	112.320%
35) Dibromofluoromethane	8.147	113	179677	45.967	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.940%
50) Toluene-d8	10.541	98	640125	44.013	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	88.020%
62) 4-Bromofluorobenzene	12.829	95	263053	52.713	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.420%
Target Compounds						
4) Vinyl Chloride	2.542	62	102480	25.356	ug/l	Qvalue 99

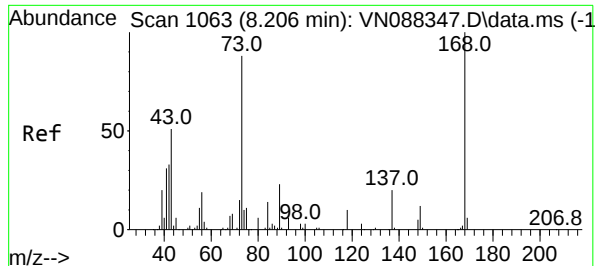
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088445.D
Acq On : 04 Dec 2025 15:06
Operator : JC\MD
Sample : Q3756-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 05 00:16:36 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

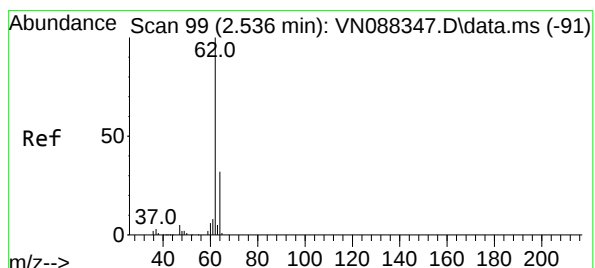
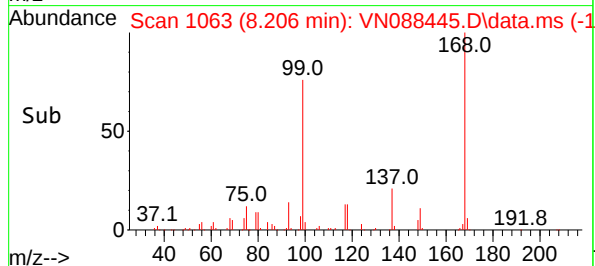
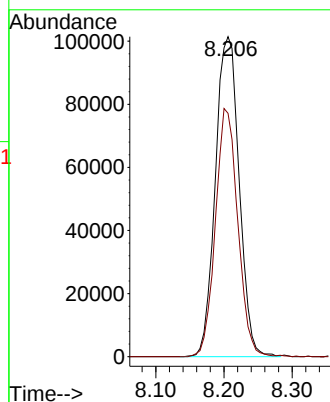
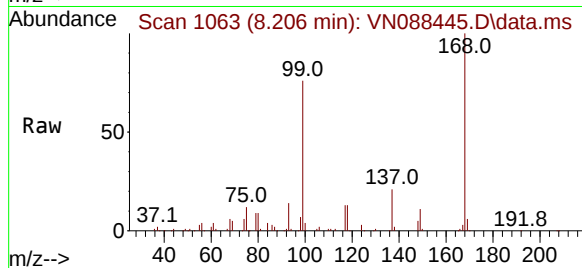




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

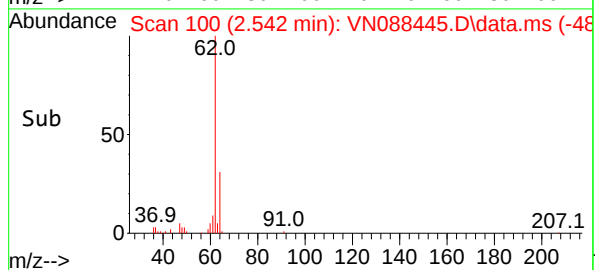
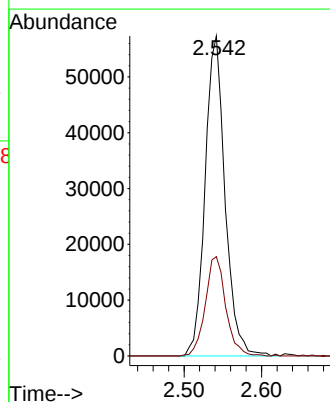
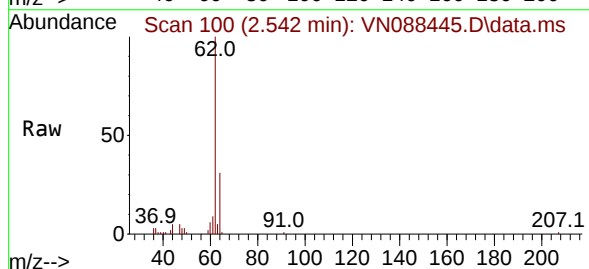
Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

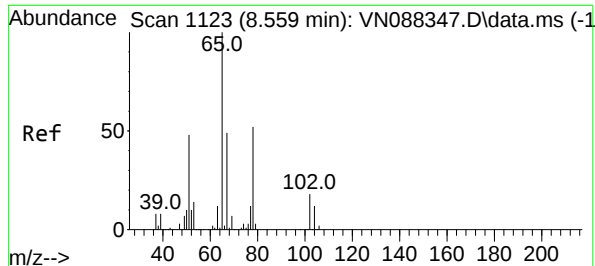
Tgt Ion:168 Resp: 246275
Ion Ratio Lower Upper
168 100
99 76.1 57.1 85.7



#4
Vinyl Chloride
Concen: 25.356 ug/l
RT: 2.542 min Scan# 100
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 62 Resp: 102480
Ion Ratio Lower Upper
62 100
64 31.0 25.4 38.2





#33

1,2-Dichloroethane-d4

Concen: 56.158 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

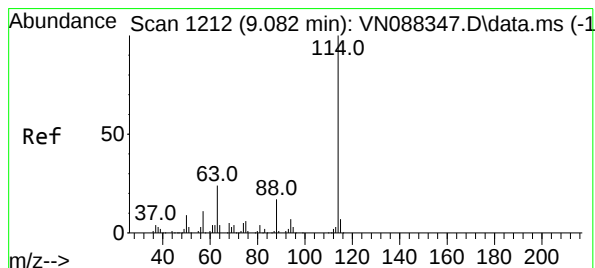
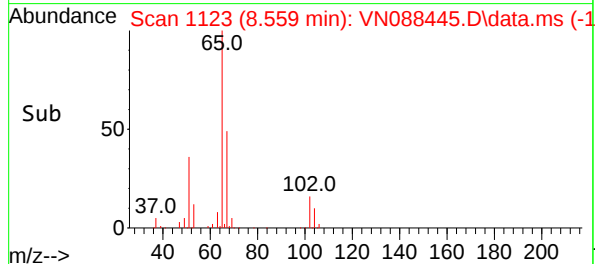
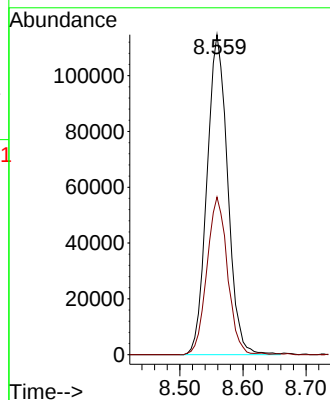
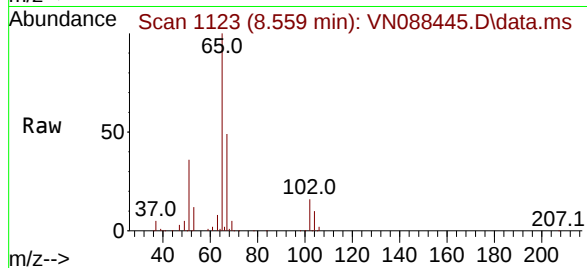
BR-01-190-120225

Tgt Ion: 65 Resp: 260534

Ion Ratio Lower Upper

65 100

67 48.8 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088445.D

Acq: 04 Dec 2025 15:06

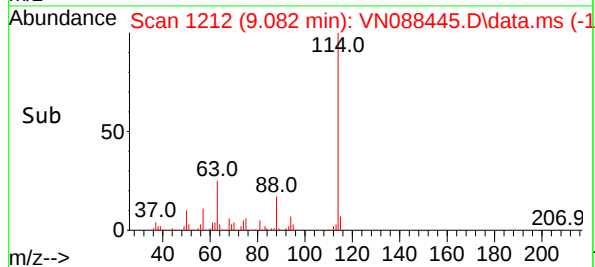
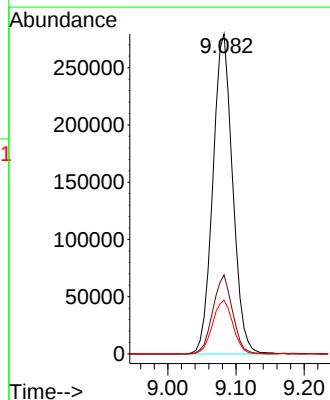
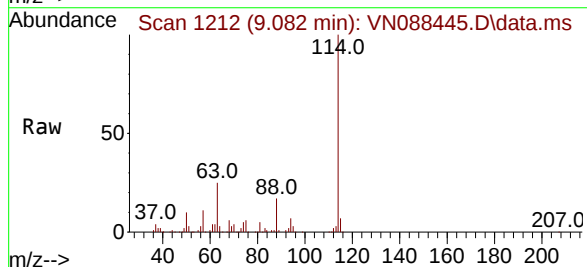
Tgt Ion: 114 Resp: 564051

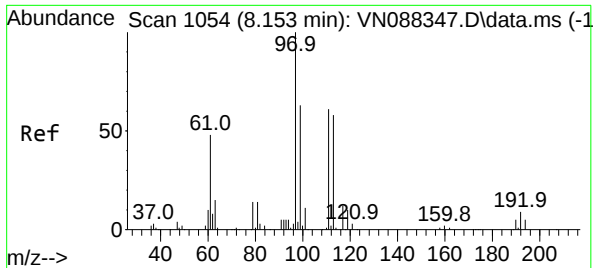
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 16.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 45.967 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088445.D

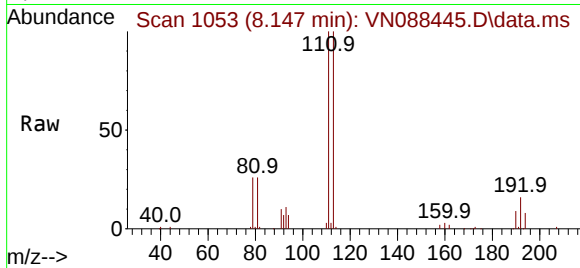
Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

BR-01-190-120225



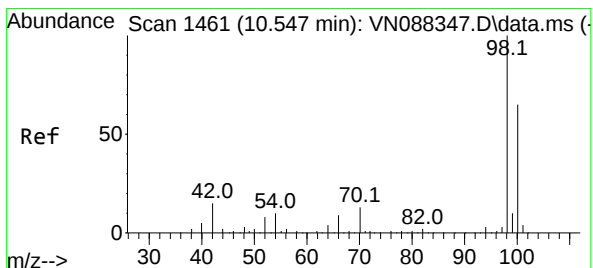
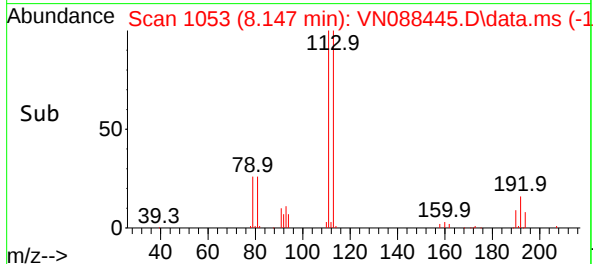
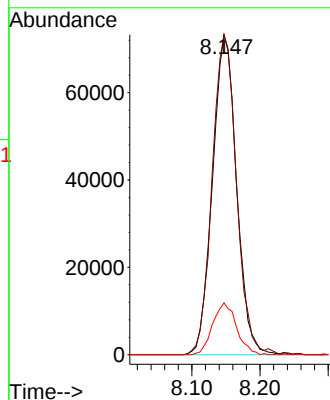
Tgt Ion:113 Resp: 179677

Ion Ratio Lower Upper

113 100

111 100.9 82.5 123.7

192 16.1 12.8 19.2



#50

Toluene-d8

Concen: 44.013 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088445.D

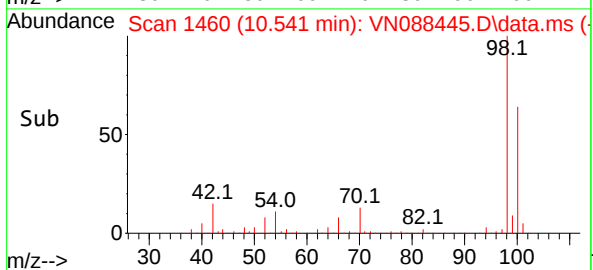
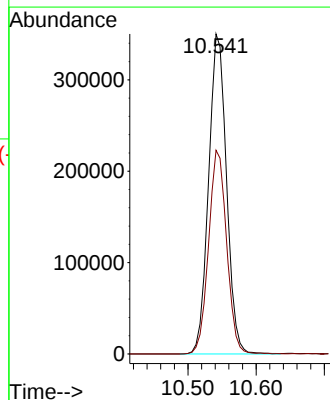
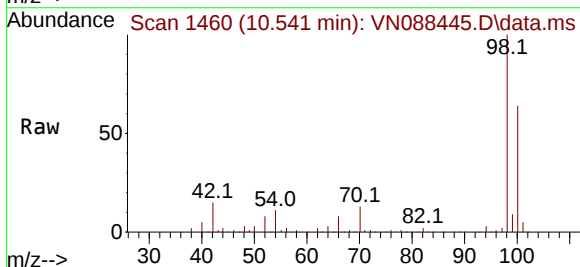
Acq: 04 Dec 2025 15:06

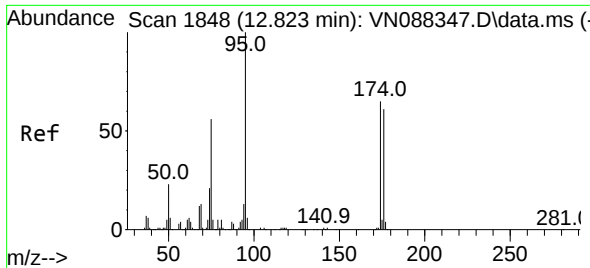
Tgt Ion: 98 Resp: 640125

Ion Ratio Lower Upper

98 100

100 64.3 52.2 78.2

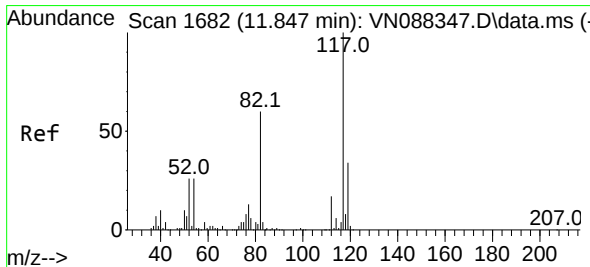
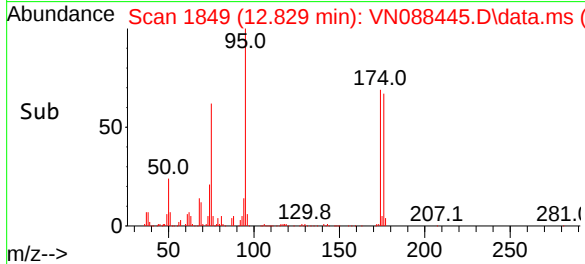
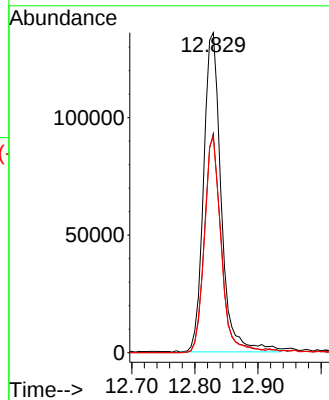
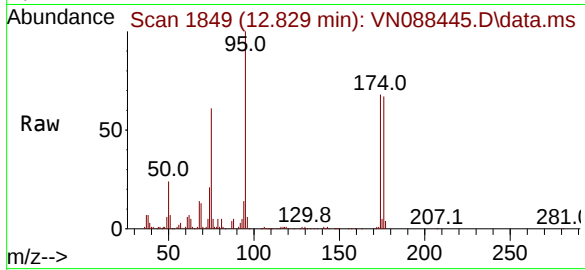




#62
4-Bromofluorobenzene
Concen: 52.713 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

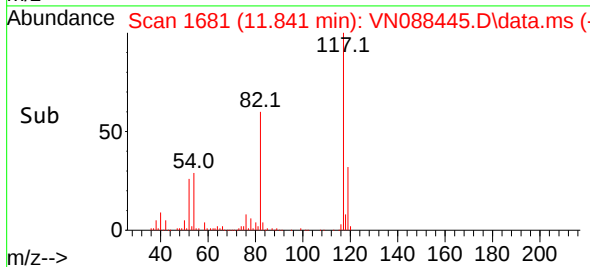
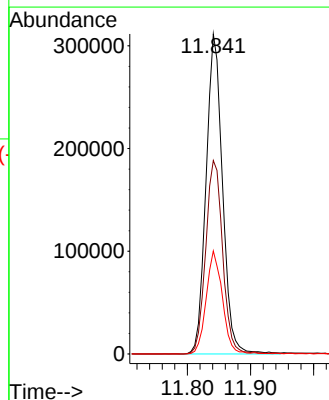
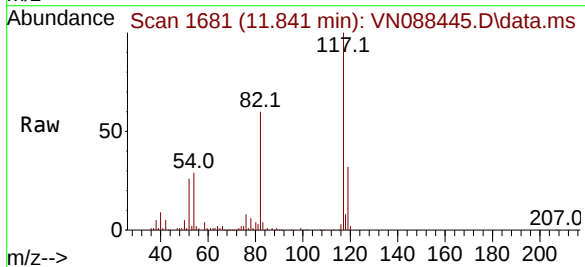
Instrument :
MSVOA_N
ClientSampleId :
BR-01-190-120225

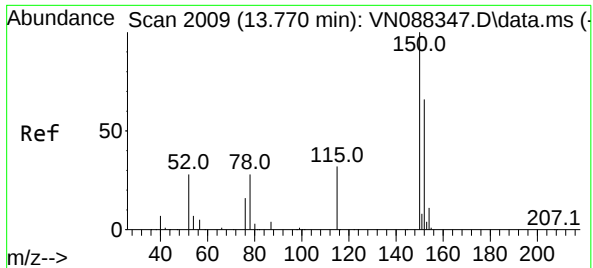
Tgt Ion: 95 Resp: 263053
Ion Ratio Lower Upper
95 100
174 64.8 0.0 139.0
176 64.3 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088445.D
Acq: 04 Dec 2025 15:06

Tgt Ion: 117 Resp: 564375
Ion Ratio Lower Upper
117 100
82 60.4 47.8 71.8
119 32.2 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN088445.D

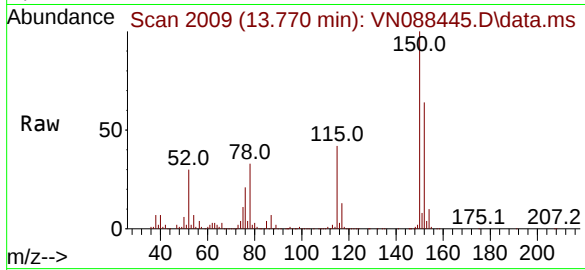
Acq: 04 Dec 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

BR-01-190-120225



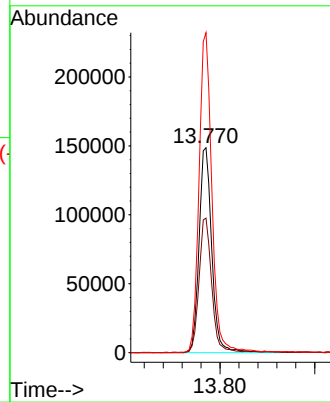
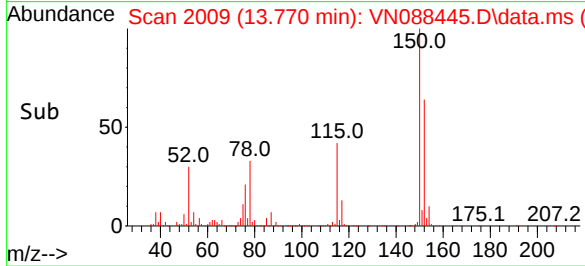
Tgt Ion:152 Resp: 278056

Ion Ratio Lower Upper

152 100

115 65.0 33.0 98.9

150 156.8 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088447.D
 Acq On : 04 Dec 2025 15:47
 Operator : JC\MD
 Sample : Q3756-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

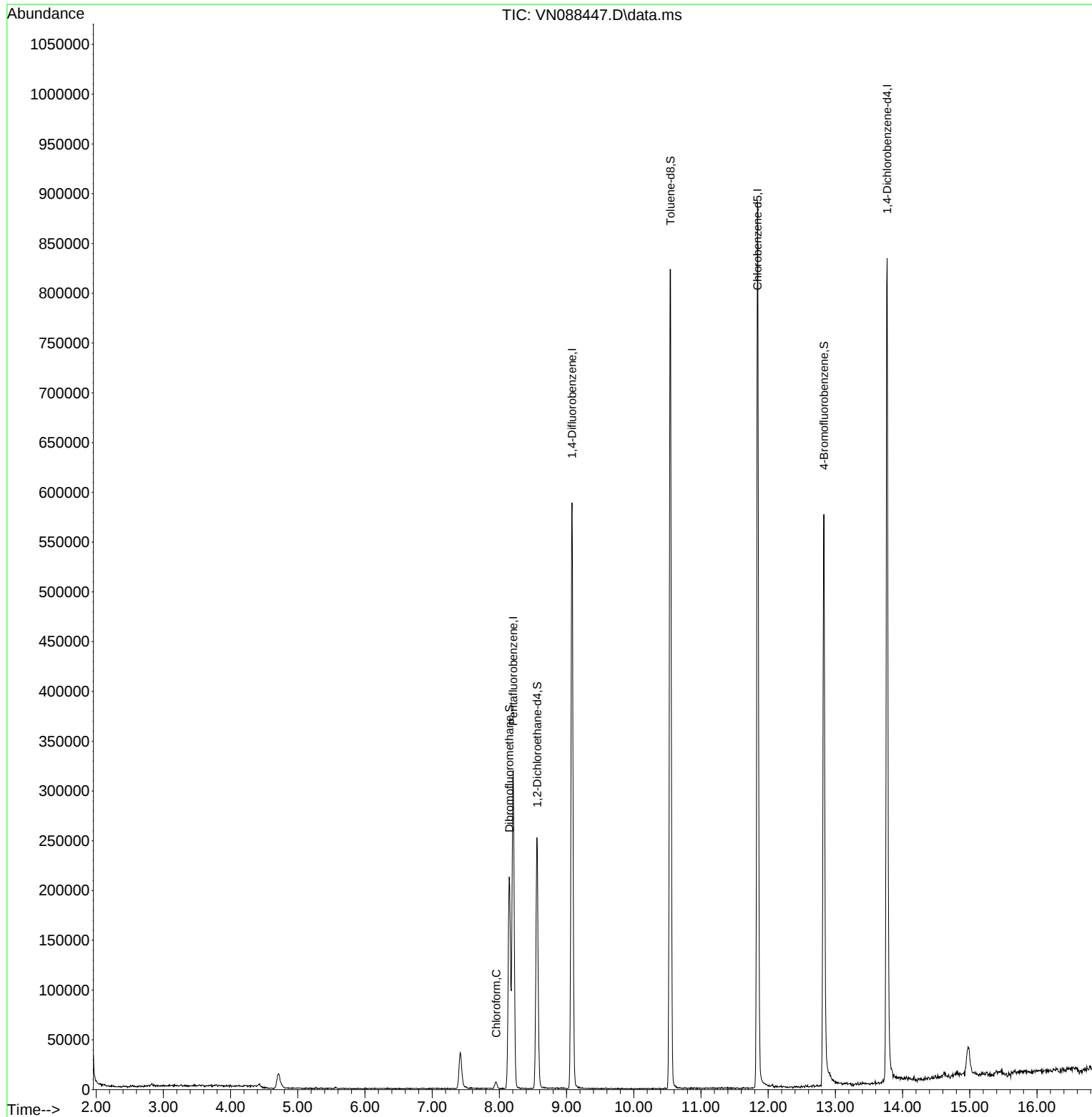
Internal Standards						
1) Pentafluorobenzene	8.206	168	206051	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468908	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	455230	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	220606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	214160	55.173	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	110.340%
35) Dibromofluoromethane	8.147	113	153204	47.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.300%
50) Toluene-d8	10.547	98	553012	45.739	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.480%
62) 4-Bromofluorobenzene	12.829	95	210748	50.800	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.600%
Target Compounds						
30) Chloroform	7.953	83	6731	1.216	ug/l	Qvalue 93

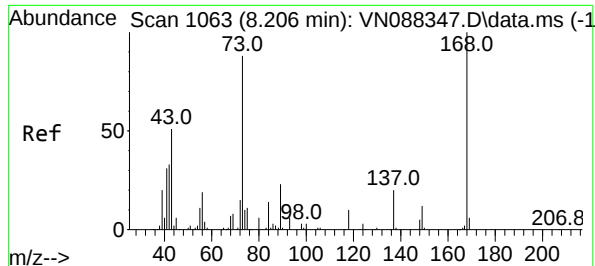
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088447.D
Acq On : 04 Dec 2025 15:47
Operator : JC\MD
Sample : Q3756-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 05 00:17:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

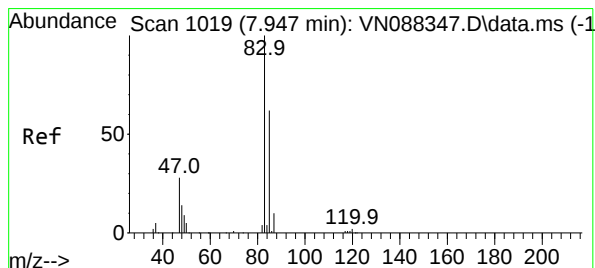
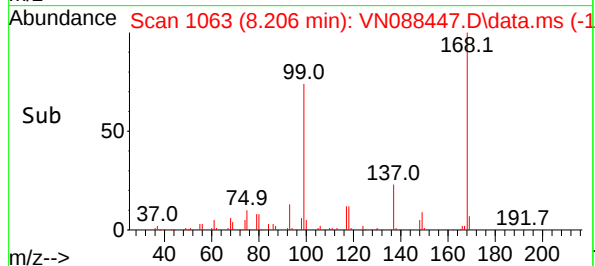
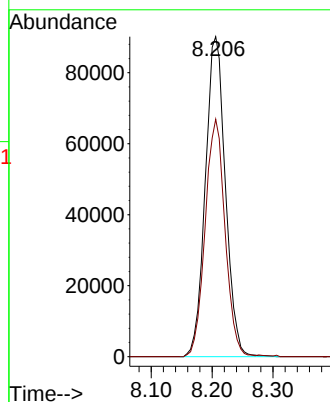
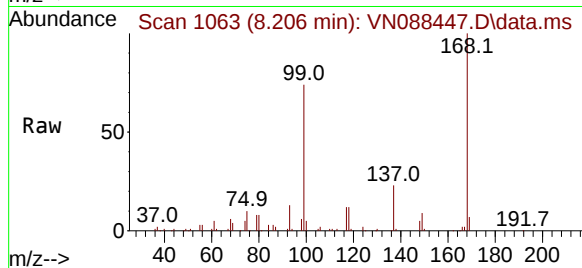




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

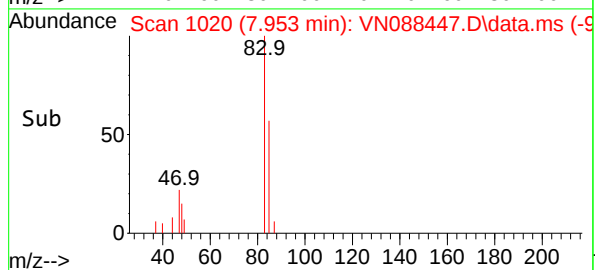
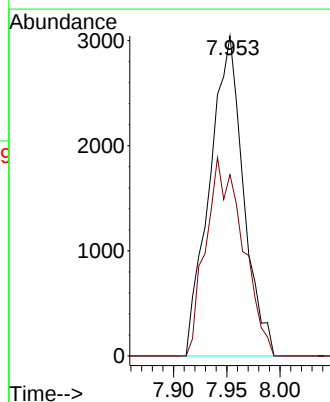
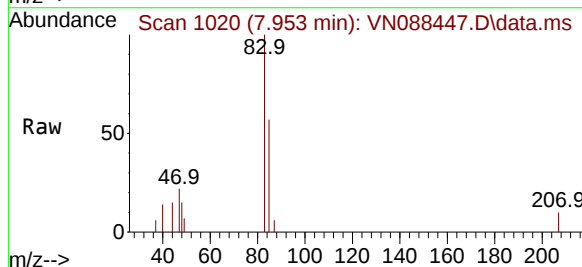
Instrument :
MSVOA_N
ClientSampleId :
MW-04-12-120225

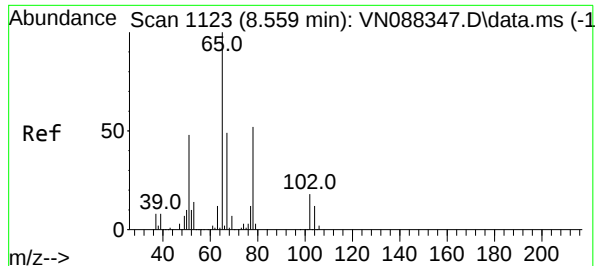
Tgt Ion:168 Resp: 206051
Ion Ratio Lower Upper
168 100
99 74.2 57.1 85.7



#30
Chloroform
Concen: 1.216 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. 0.006 min
Lab File: VN088447.D
Acq: 04 Dec 2025 15:47

Tgt Ion: 83 Resp: 6731
Ion Ratio Lower Upper
83 100
85 56.6 49.8 74.8





#33

1,2-Dichloroethane-d4

Concen: 55.173 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

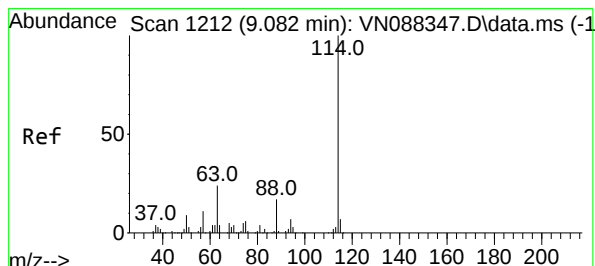
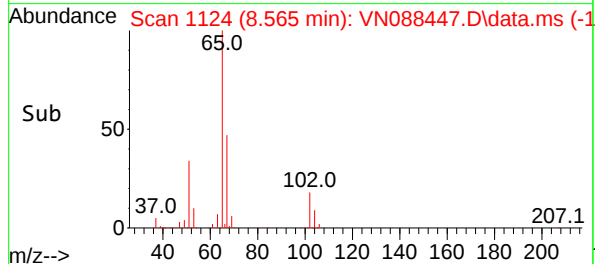
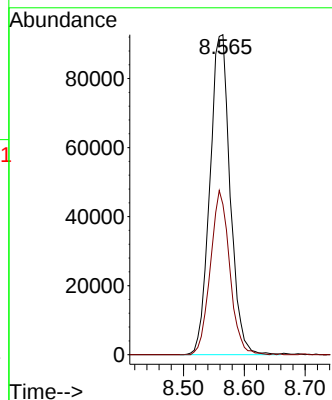
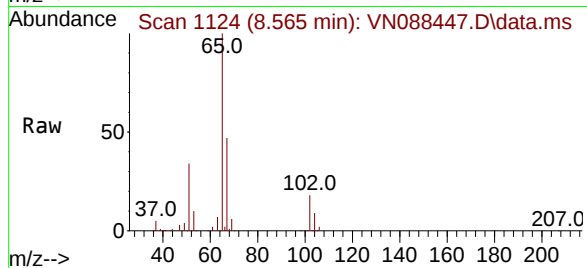
MW-04-12-120225

Tgt Ion: 65 Resp: 214160

Ion Ratio Lower Upper

65 100

67 48.9 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

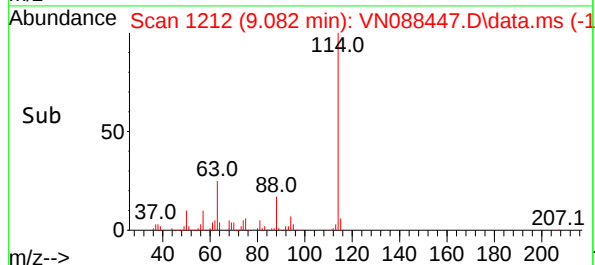
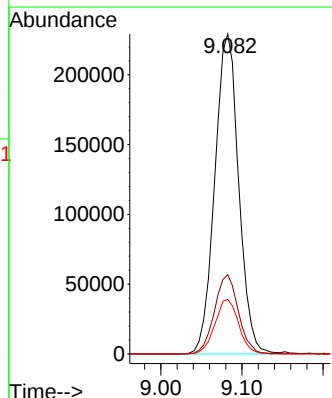
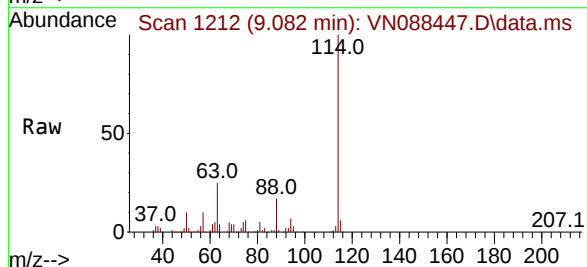
Tgt Ion: 114 Resp: 468908

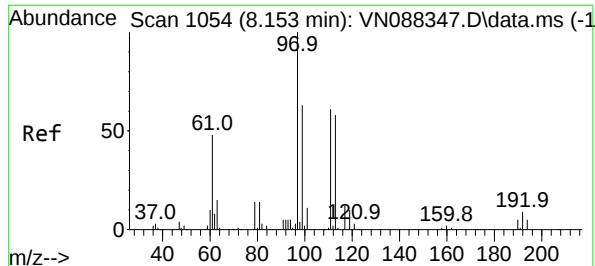
Ion Ratio Lower Upper

114 100

63 24.7 0.0 49.0

88 17.1 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.147 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW-04-12-120225

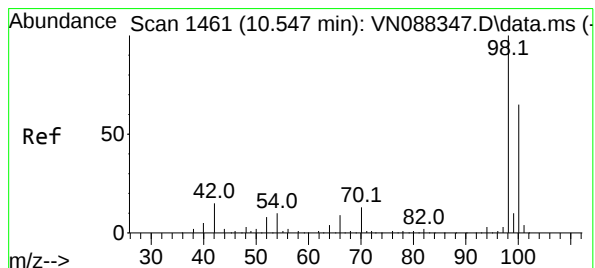
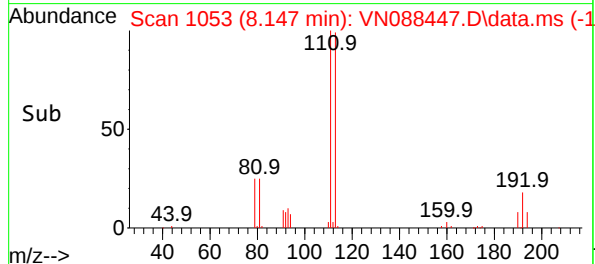
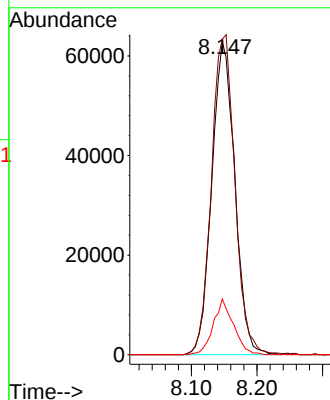
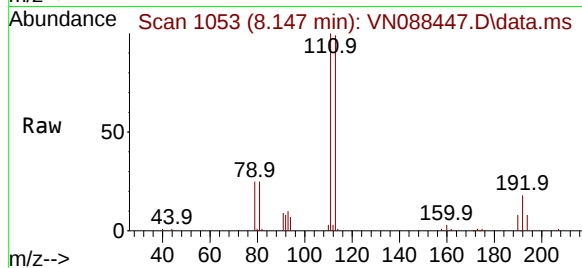
Tgt Ion:113 Resp: 153204

Ion Ratio Lower Upper

113 100

111 104.2 82.5 123.7

192 15.7 12.8 19.2



#50

Toluene-d8

Concen: 45.739 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088447.D

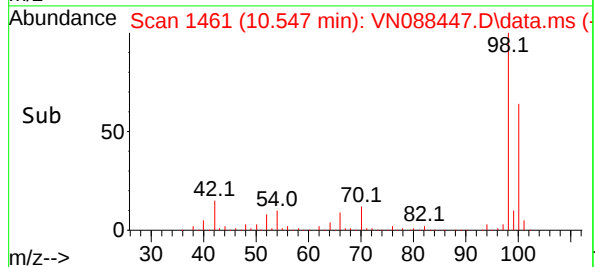
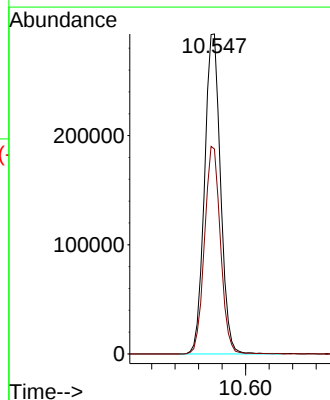
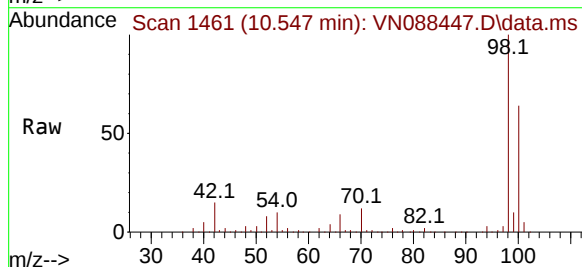
Acq: 04 Dec 2025 15:47

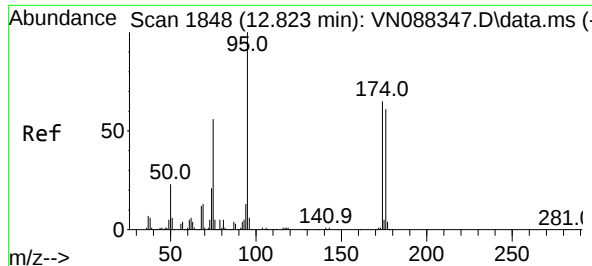
Tgt Ion: 98 Resp: 553012

Ion Ratio Lower Upper

98 100

100 64.6 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 50.800 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW-04-12-120225

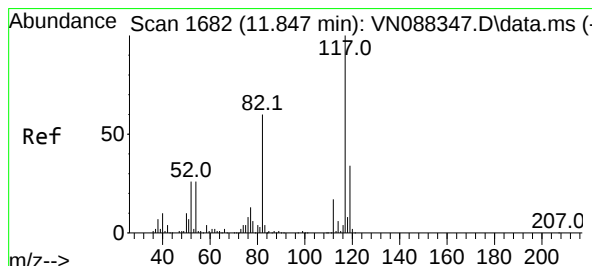
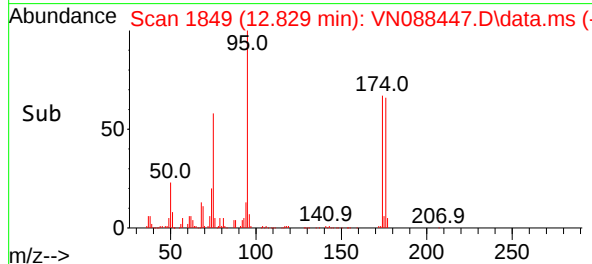
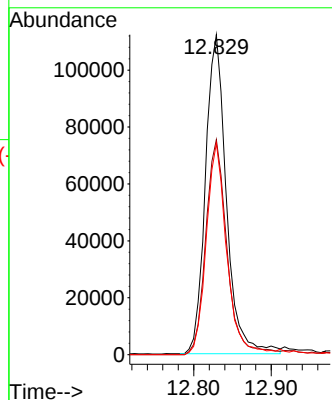
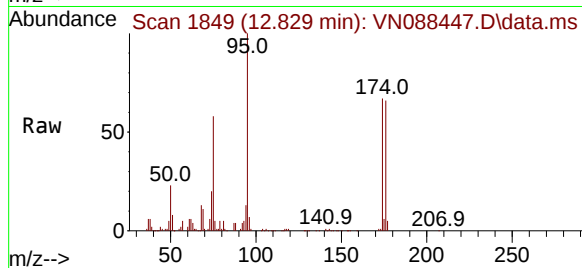
Tgt Ion: 95 Resp: 210748

Ion Ratio Lower Upper

95 100

174 68.2 0.0 139.0

176 64.7 0.0 132.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1681

Delta R.T. -0.006 min

Lab File: VN088447.D

Acq: 04 Dec 2025 15:47

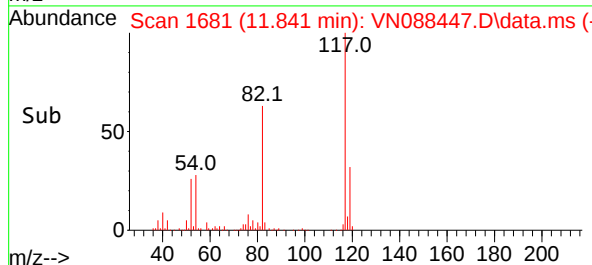
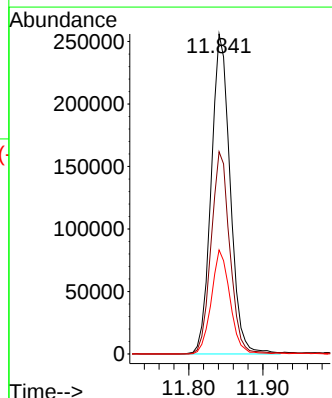
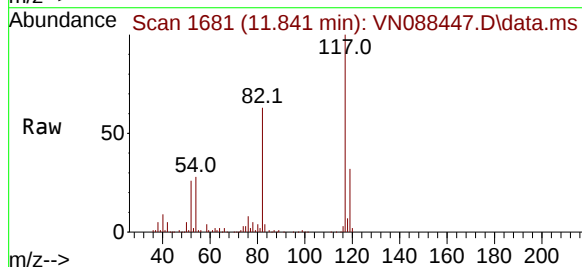
Tgt Ion: 117 Resp: 455230

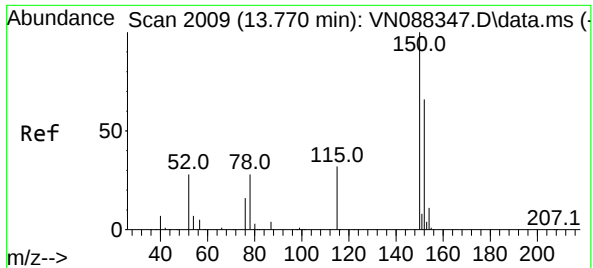
Ion Ratio Lower Upper

117 100

82 63.2 47.8 71.8

119 32.5 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. -0.000 min

Lab File: VN088447.D

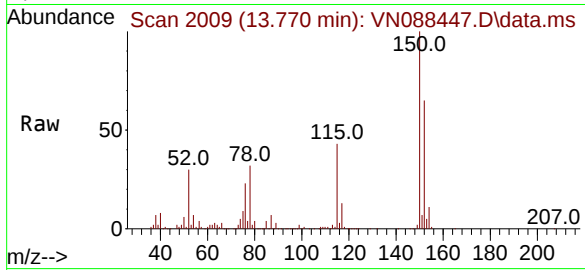
Acq: 04 Dec 2025 15:47

Instrument :

MSVOA_N

ClientSampleId :

MW-04-12-120225



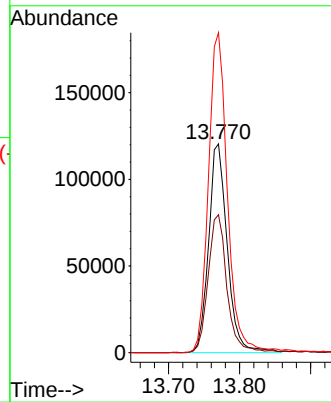
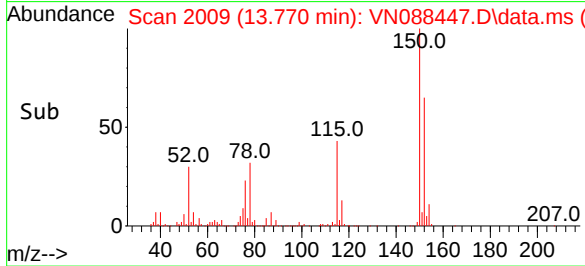
Tgt Ion:152 Resp: 220606

Ion Ratio Lower Upper

152 100

115 66.9 33.0 98.9

150 157.2 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	206071	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	471902	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	469221	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	222578	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	216155	55.682	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	111.360%
35) Dibromofluoromethane	8.147	113	154264	47.172	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.340%
50) Toluene-d8	10.547	98	550181	45.216	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.440%
62) 4-Bromofluorobenzene	12.829	95	211464	50.650	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.300%

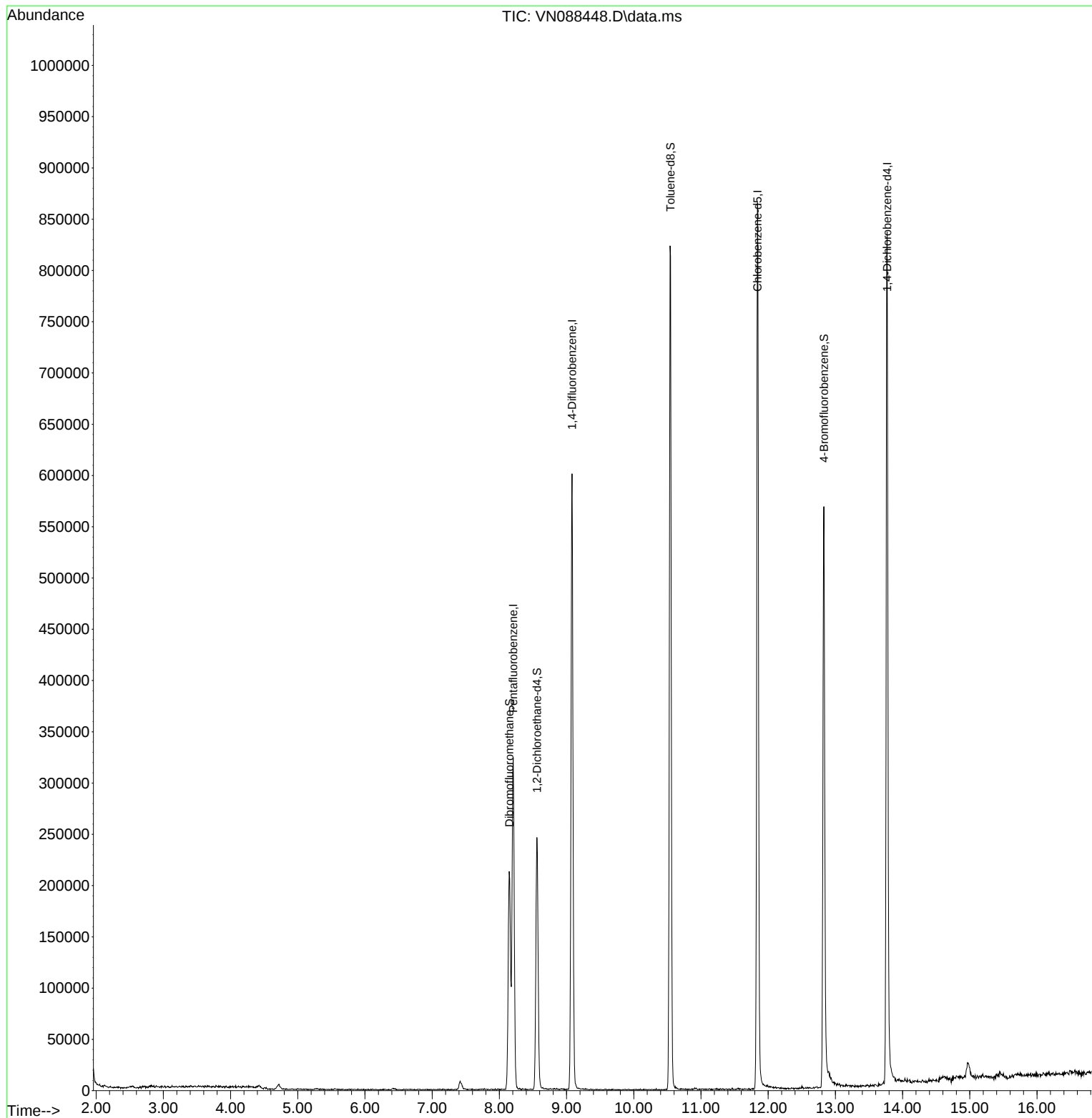
Target Compounds	Qvalue
------------------	--------

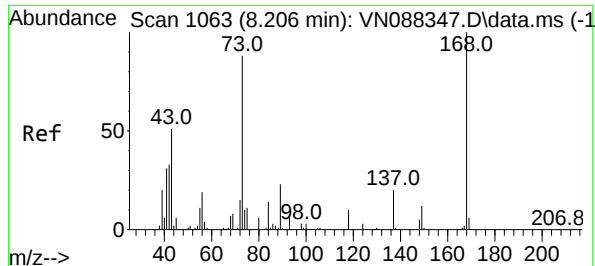
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088448.D
Acq On : 04 Dec 2025 16:07
Operator : JC\MD
Sample : Q3756-07
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Quant Time: Dec 05 00:17:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

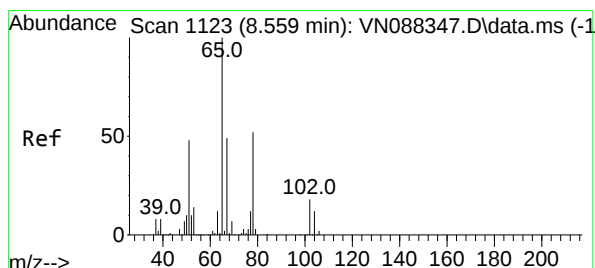
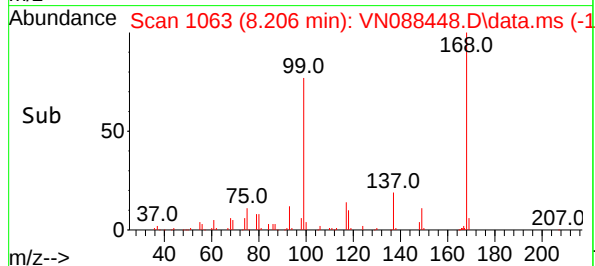
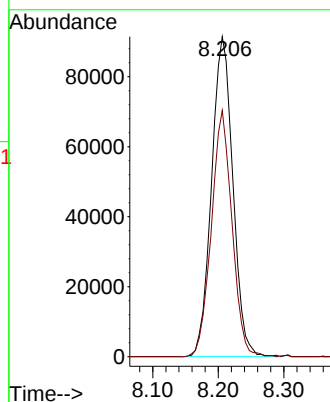
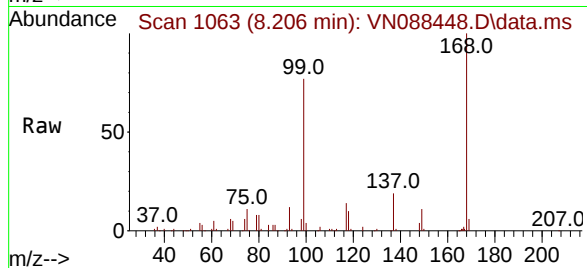




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

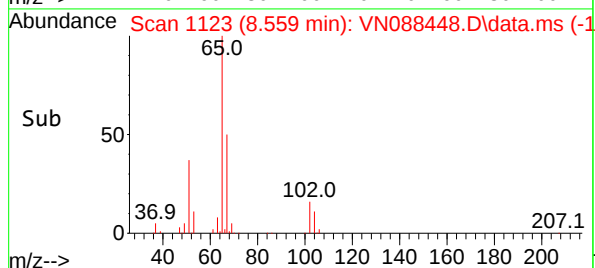
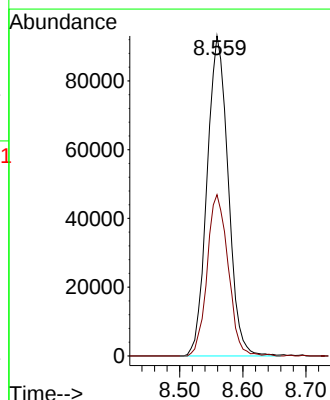
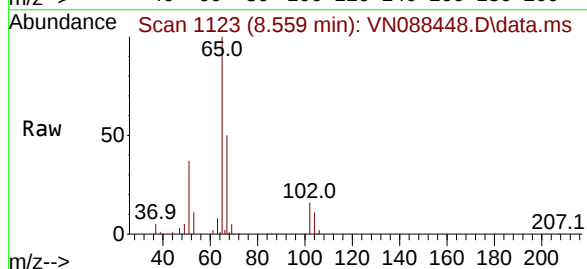
Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

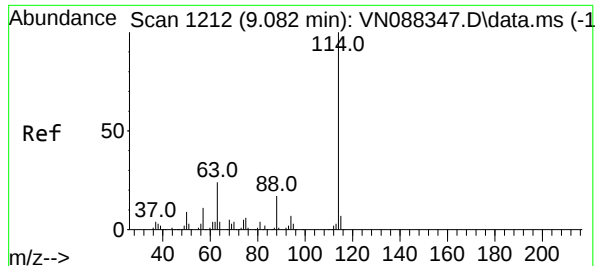
Tgt Ion:168 Resp: 206071
Ion Ratio Lower Upper
168 100
99 76.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 55.682 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion: 65 Resp: 216155
Ion Ratio Lower Upper
65 100
67 50.1 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

MW-13B-47.5-120225

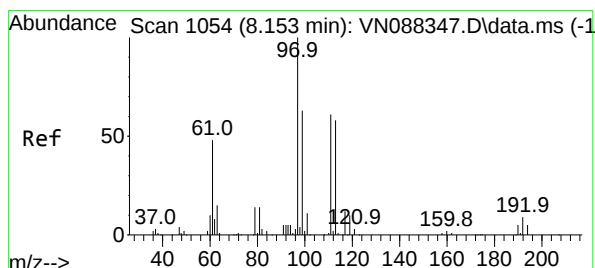
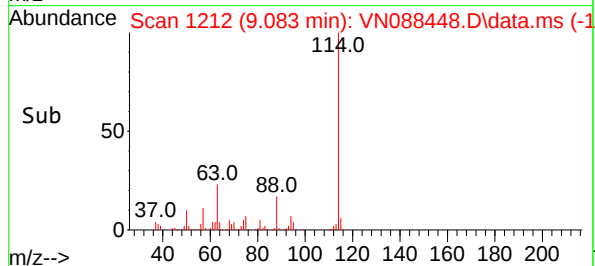
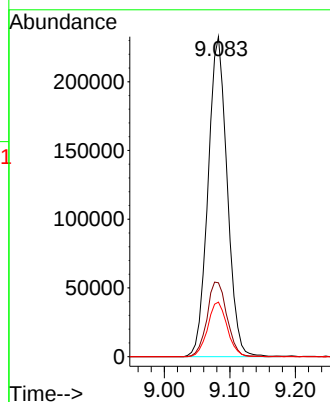
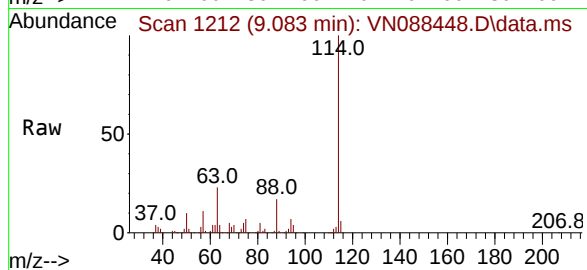
Tgt Ion:114 Resp: 471902

Ion Ratio Lower Upper

114 100

63 23.1 0.0 49.0

88 17.1 0.0 34.0



#35

Dibromofluoromethane

Concen: 47.172 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

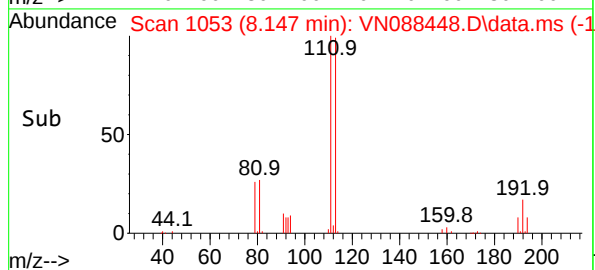
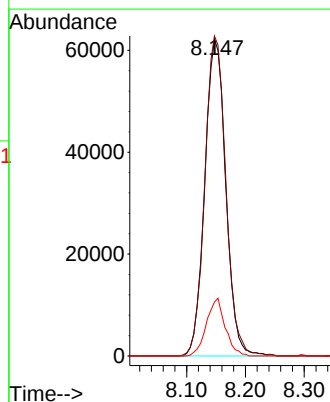
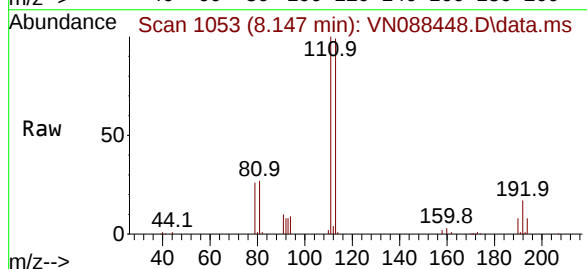
Tgt Ion:113 Resp: 154264

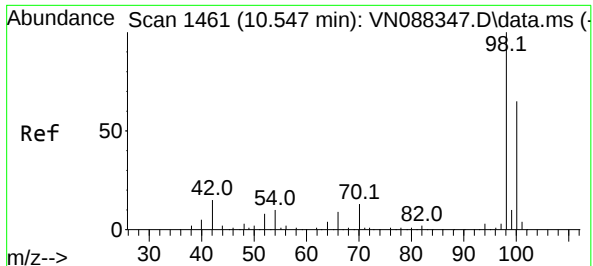
Ion Ratio Lower Upper

113 100

111 101.4 82.5 123.7

192 16.3 12.8 19.2





#50

Toluene-d8

Concen: 45.216 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

Instrument :

MSVOA_N

ClientSampleId :

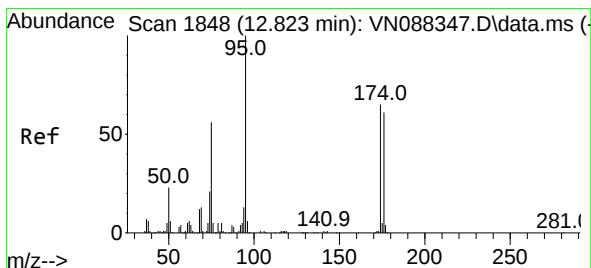
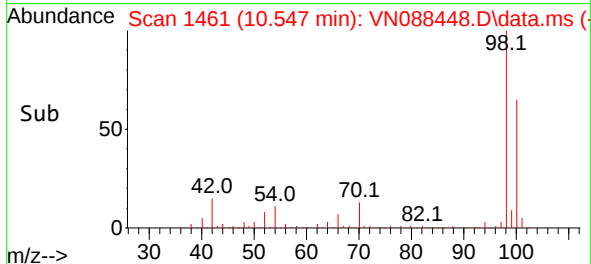
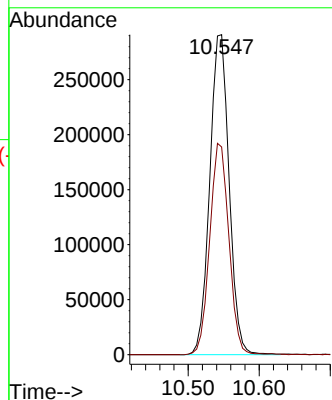
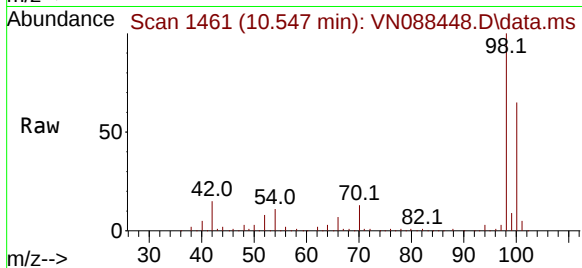
MW-13B-47.5-120225

Tgt Ion: 98 Resp: 550181

Ion Ratio Lower Upper

98 100

100 65.3 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 50.650 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088448.D

Acq: 04 Dec 2025 16:07

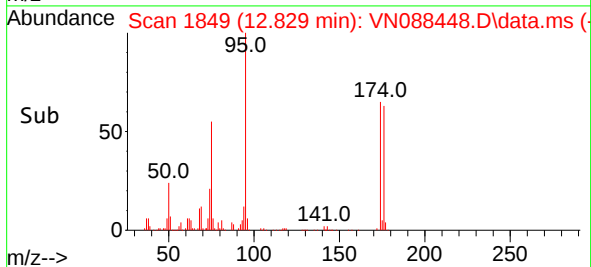
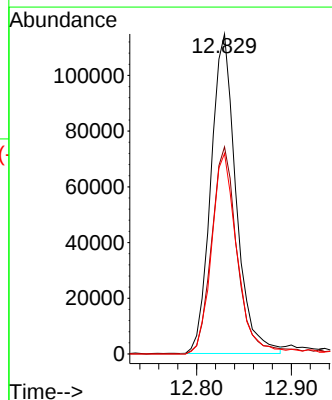
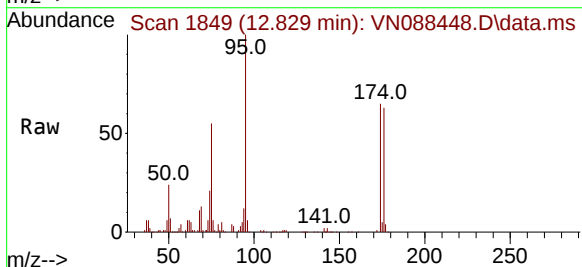
Tgt Ion: 95 Resp: 211464

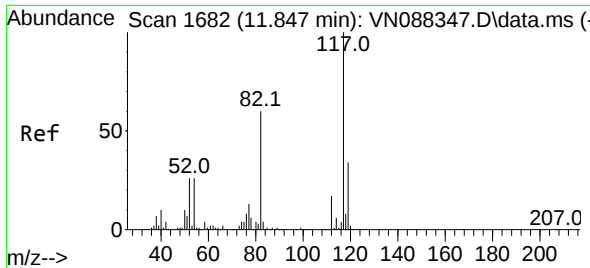
Ion Ratio Lower Upper

95 100

174 68.3 0.0 139.0

176 64.1 0.0 132.4

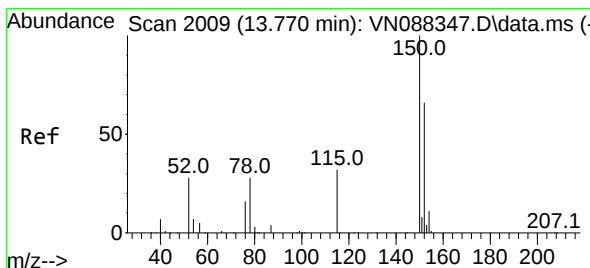
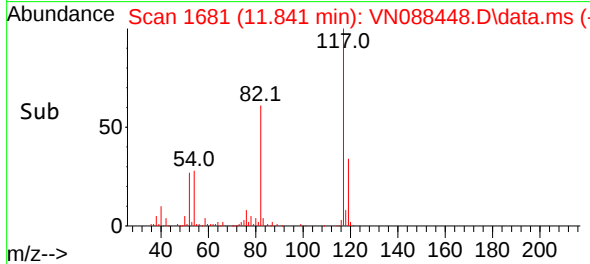
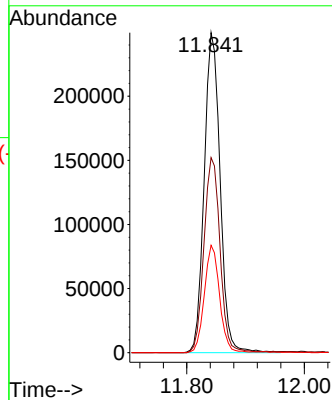
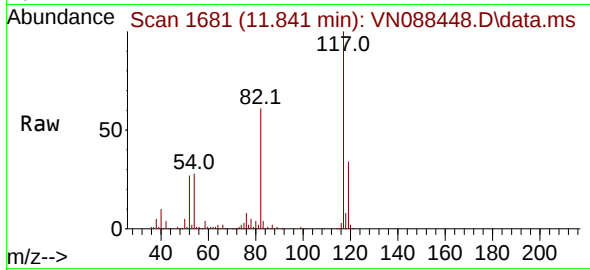




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

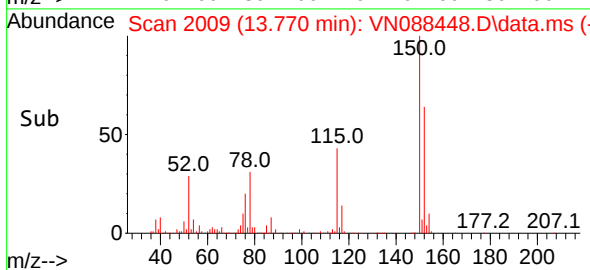
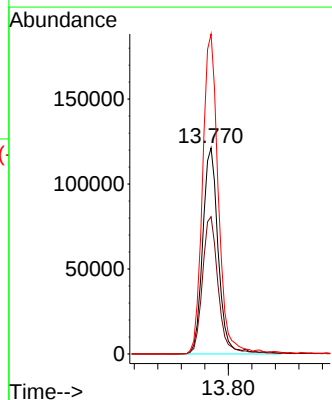
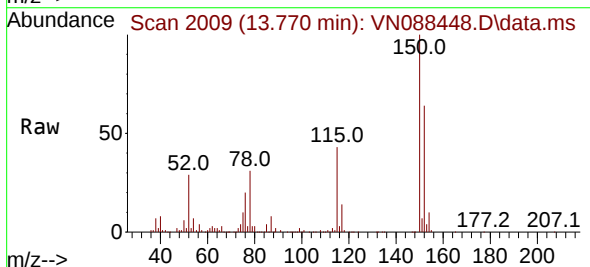
Instrument :
MSVOA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion:117 Resp: 469221
Ion Ratio Lower Upper
117 100
82 60.9 47.8 71.8
119 33.5 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088448.D
Acq: 04 Dec 2025 16:07

Tgt Ion:152 Resp: 222578
Ion Ratio Lower Upper
152 100
115 67.9 33.0 98.9
150 157.1 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088422.D
 Acq On : 03 Dec 2025 12:52
 Operator : JC\MD
 Sample : Q3756-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-120225

Quant Time: Dec 04 00:17:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

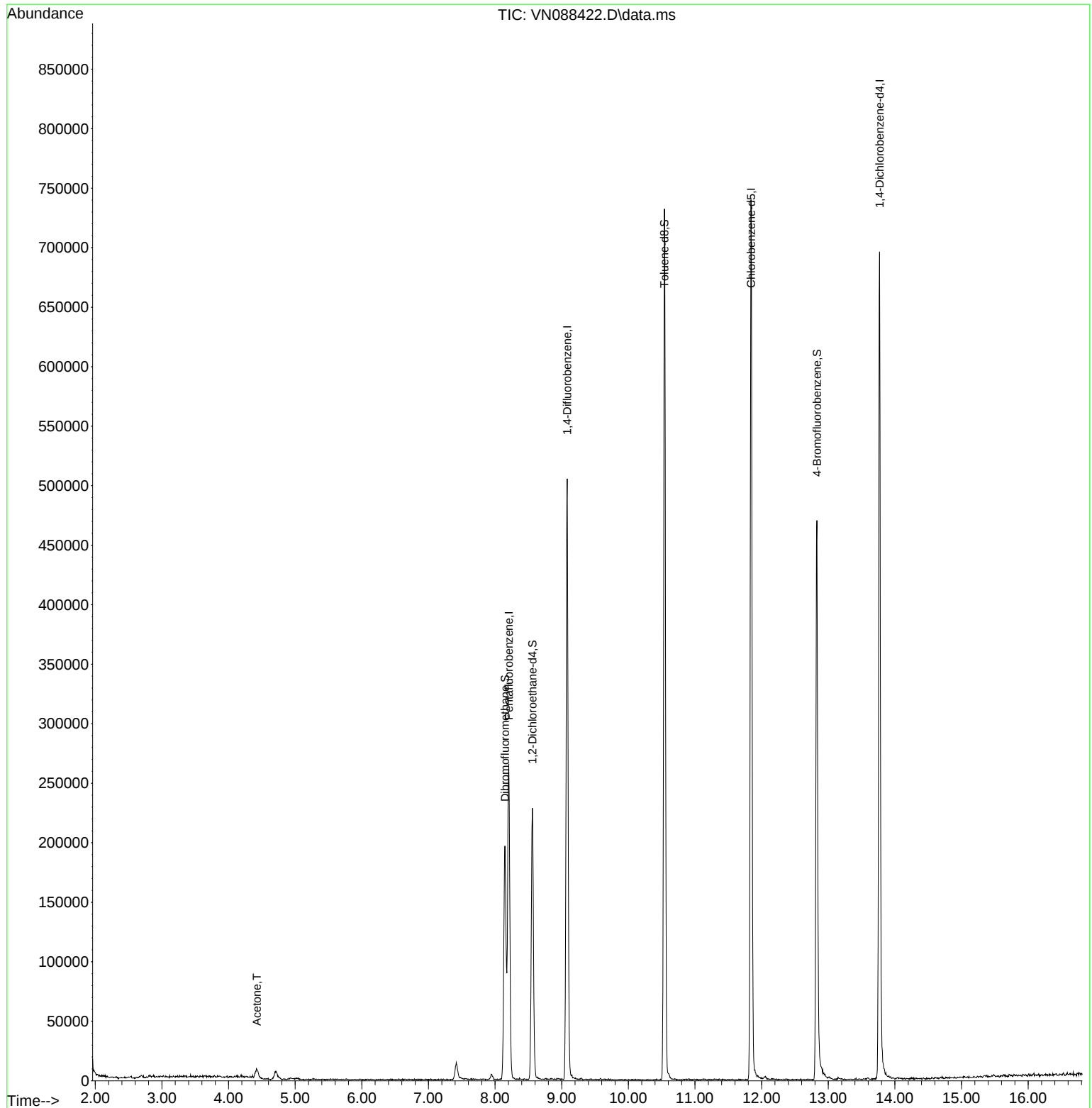
Internal Standards						
1) Pentafluorobenzene	8.206	168	173573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	400248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	396303	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	182664	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	192679	58.927	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	117.860%
35) Dibromofluoromethane	8.147	113	139816	50.408	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.820%
50) Toluene-d8	10.541	98	482687	46.771	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.540%
62) 4-Bromofluorobenzene	12.829	95	172026	48.580	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.160%
Target Compounds						
16) Acetone	4.424	43	16363	13.837	ug/l	Qvalue 99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

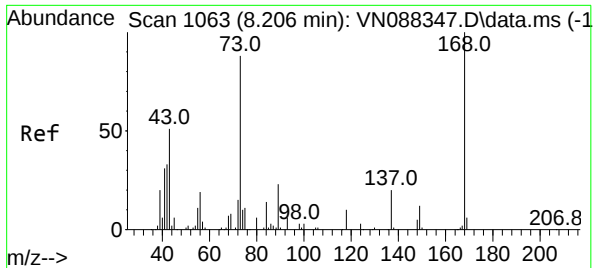
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Data File : VN088422.D
Acq On : 03 Dec 2025 12:52
Operator : JC\MD
Sample : Q3756-09
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 04 00:17:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



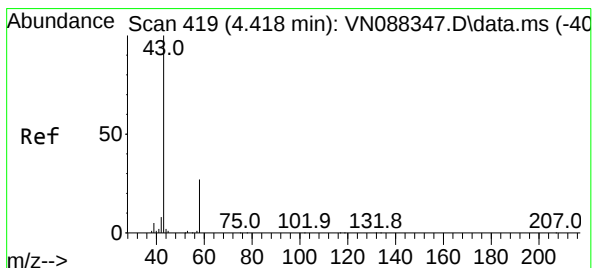
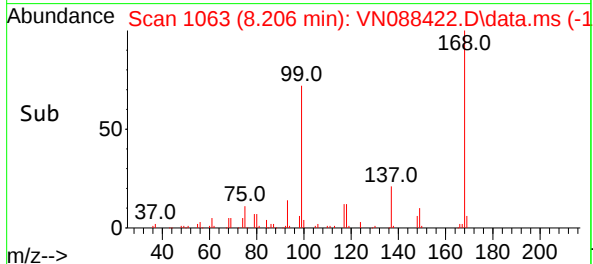
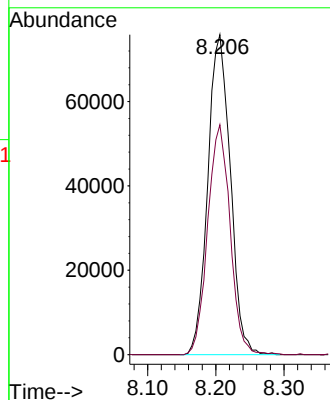
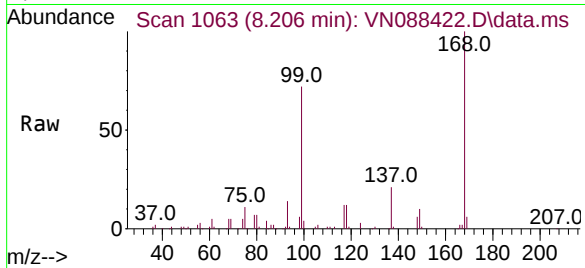
A
B
C
D
E
F
G
H
I
J



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

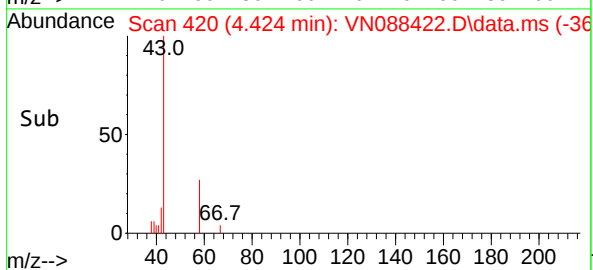
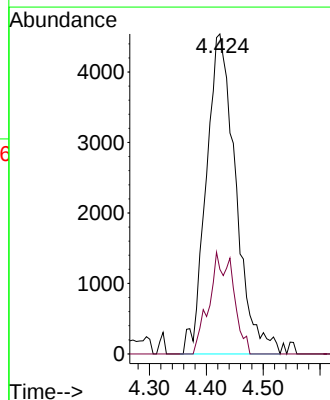
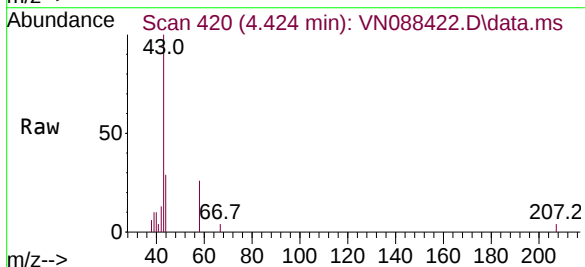
Instrument :
MSVOA_N
ClientSampleId :
EB01-120225

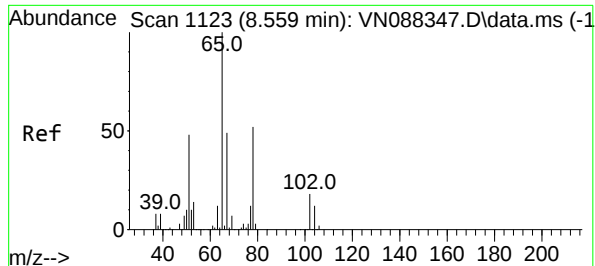
Tgt Ion:168 Resp: 173573
Ion Ratio Lower Upper
168 100
99 71.8 57.1 85.7



#16
Acetone
Concen: 13.837 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088422.D
Acq: 03 Dec 2025 12:52

Tgt Ion: 43 Resp: 16363
Ion Ratio Lower Upper
43 100
58 26.4 21.7 32.5





#33

1,2-Dichloroethane-d4

Concen: 58.927 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

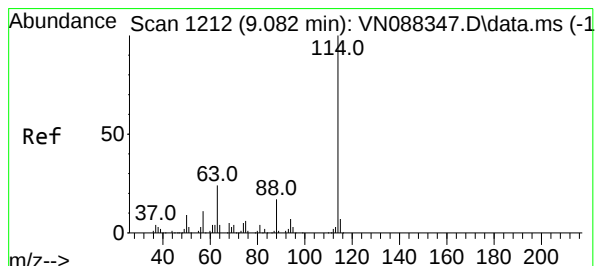
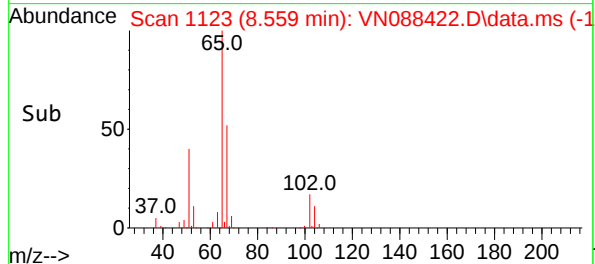
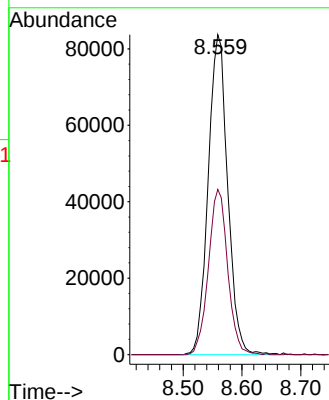
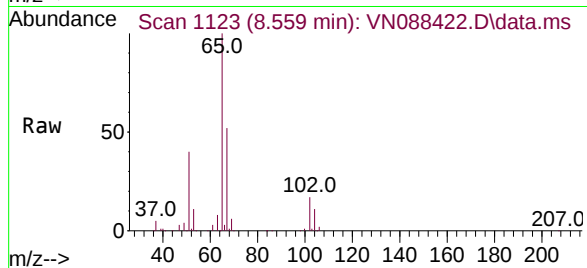
EB01-120225

Tgt Ion: 65 Resp: 192679

Ion Ratio Lower Upper

65 100

67 50.9 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

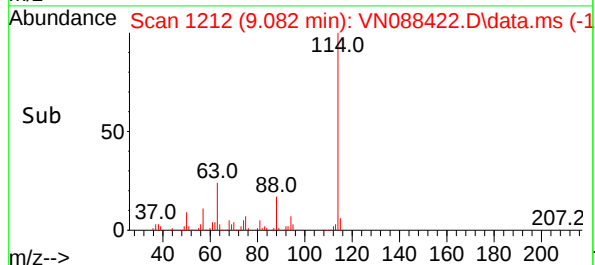
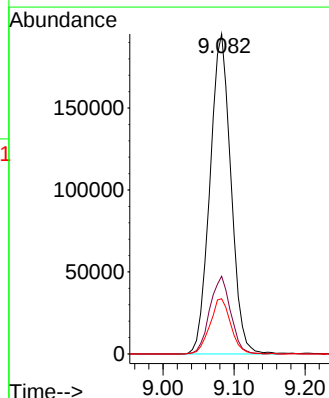
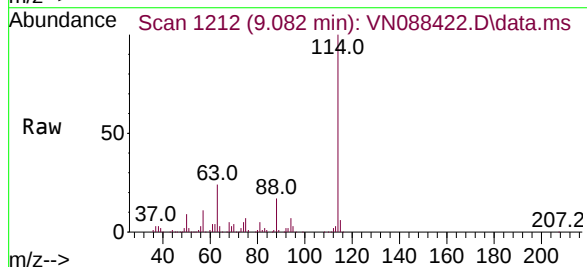
Tgt Ion: 114 Resp: 400248

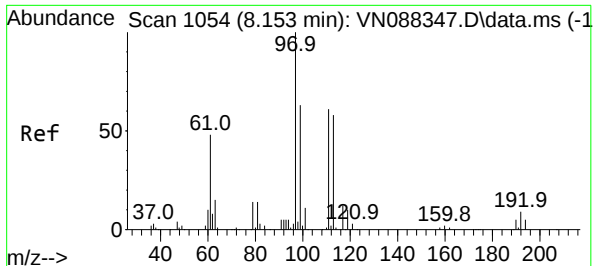
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.0

88 17.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 50.408 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

EB01-120225

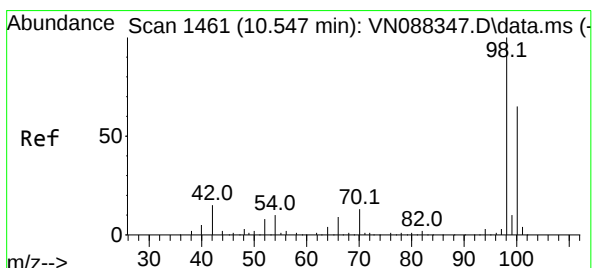
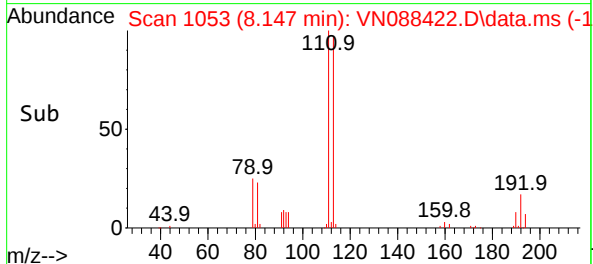
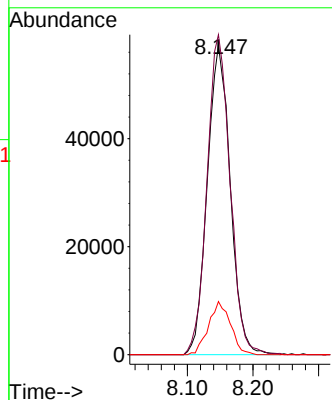
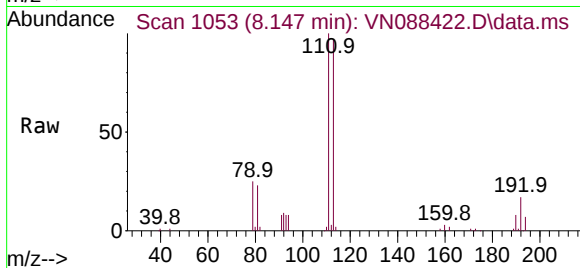
Tgt Ion:113 Resp: 139816

Ion Ratio Lower Upper

113 100

111 103.4 82.5 123.7

192 16.3 12.8 19.2



#50

Toluene-d8

Concen: 46.771 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088422.D

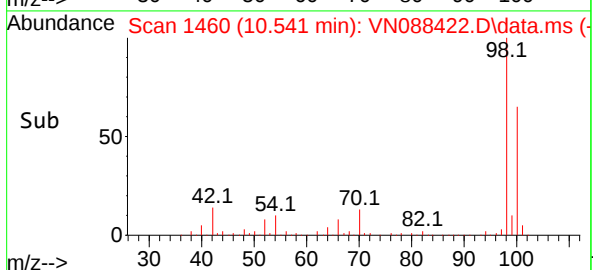
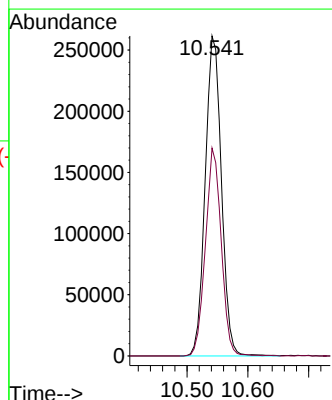
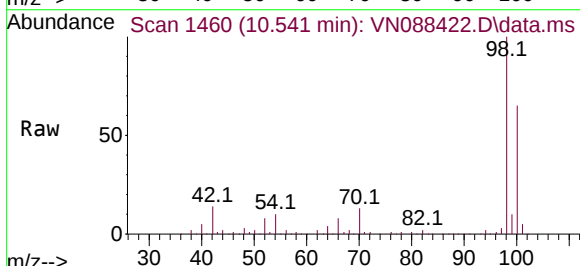
Acq: 03 Dec 2025 12:52

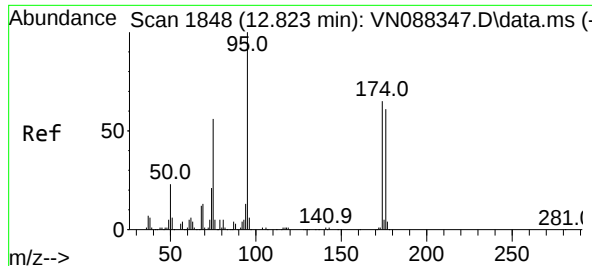
Tgt Ion: 98 Resp: 482687

Ion Ratio Lower Upper

98 100

100 63.4 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 48.580 ug/l

RT: 12.829 min Scan# 1848

Delta R.T. 0.006 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

EB01-120225

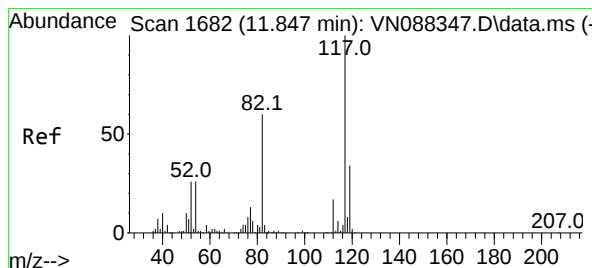
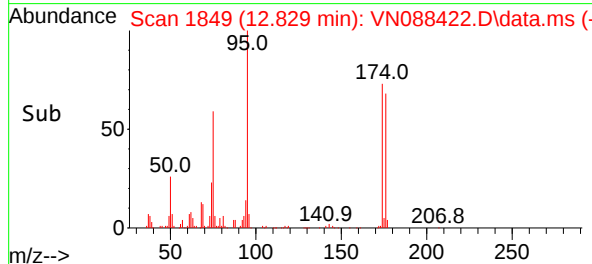
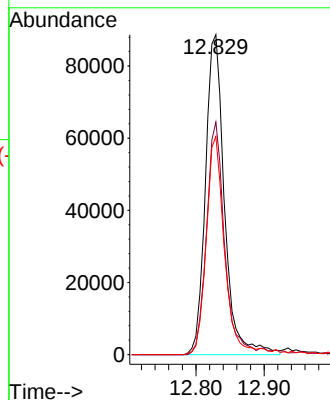
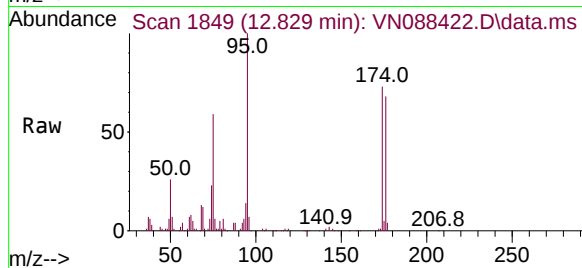
Tgt Ion: 95 Resp: 172026

Ion Ratio Lower Upper

95 100

174 68.3 0.0 139.0

176 65.4 0.0 132.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.841 min Scan# 1681

Delta R.T. -0.006 min

Lab File: VN088422.D

Acq: 03 Dec 2025 12:52

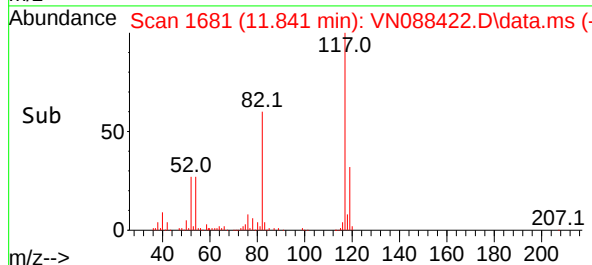
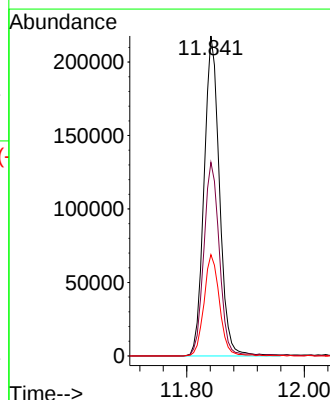
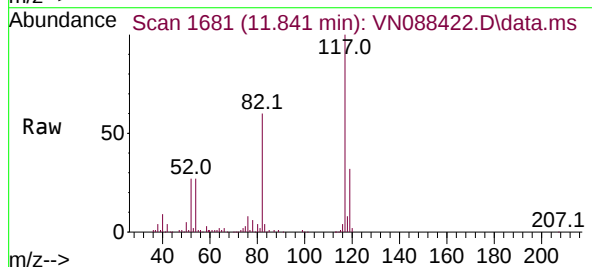
Tgt Ion: 117 Resp: 396303

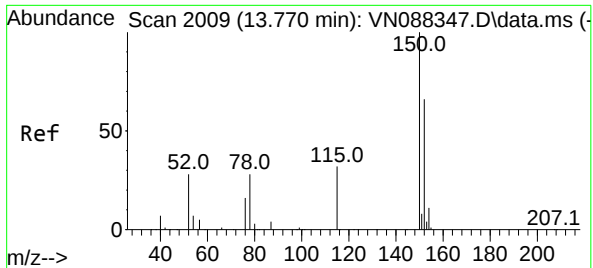
Ion Ratio Lower Upper

117 100

82 60.5 47.8 71.8

119 31.6 26.9 40.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN088422.D

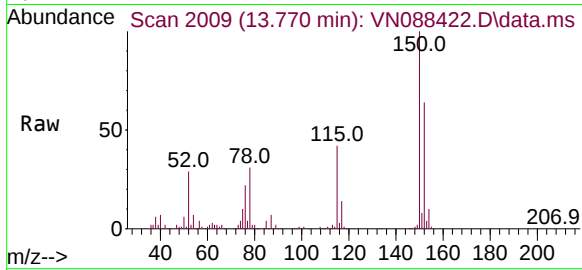
Acq: 03 Dec 2025 12:52

Instrument :

MSVOA_N

ClientSampleId :

EB01-120225



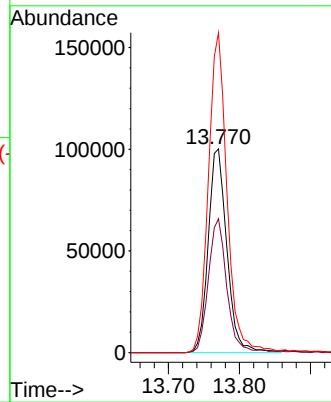
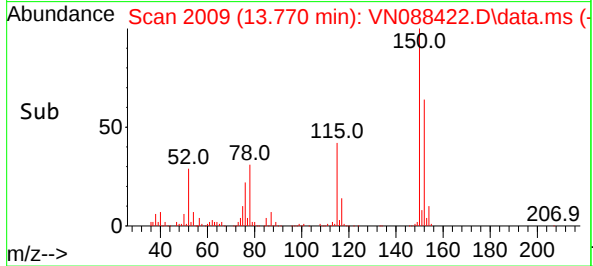
Tgt Ion:152 Resp: 182664

Ion Ratio Lower Upper

152 100

115 65.3 33.0 98.9

150 157.8 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088423.D
 Acq On : 03 Dec 2025 13:12
 Operator : JC\MD
 Sample : Q3756-10
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120225

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Quant Time: Dec 04 00:17:55 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	192200	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	468050	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	464764	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	219360	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	237154	65.500	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	131.000%#
35) Dibromofluoromethane	8.147	113	167987	51.791	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.580%
50) Toluene-d8	10.541	98	581457	48.179	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	96.360%
62) 4-Bromofluorobenzene	12.829	95	210648	50.869	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.740%

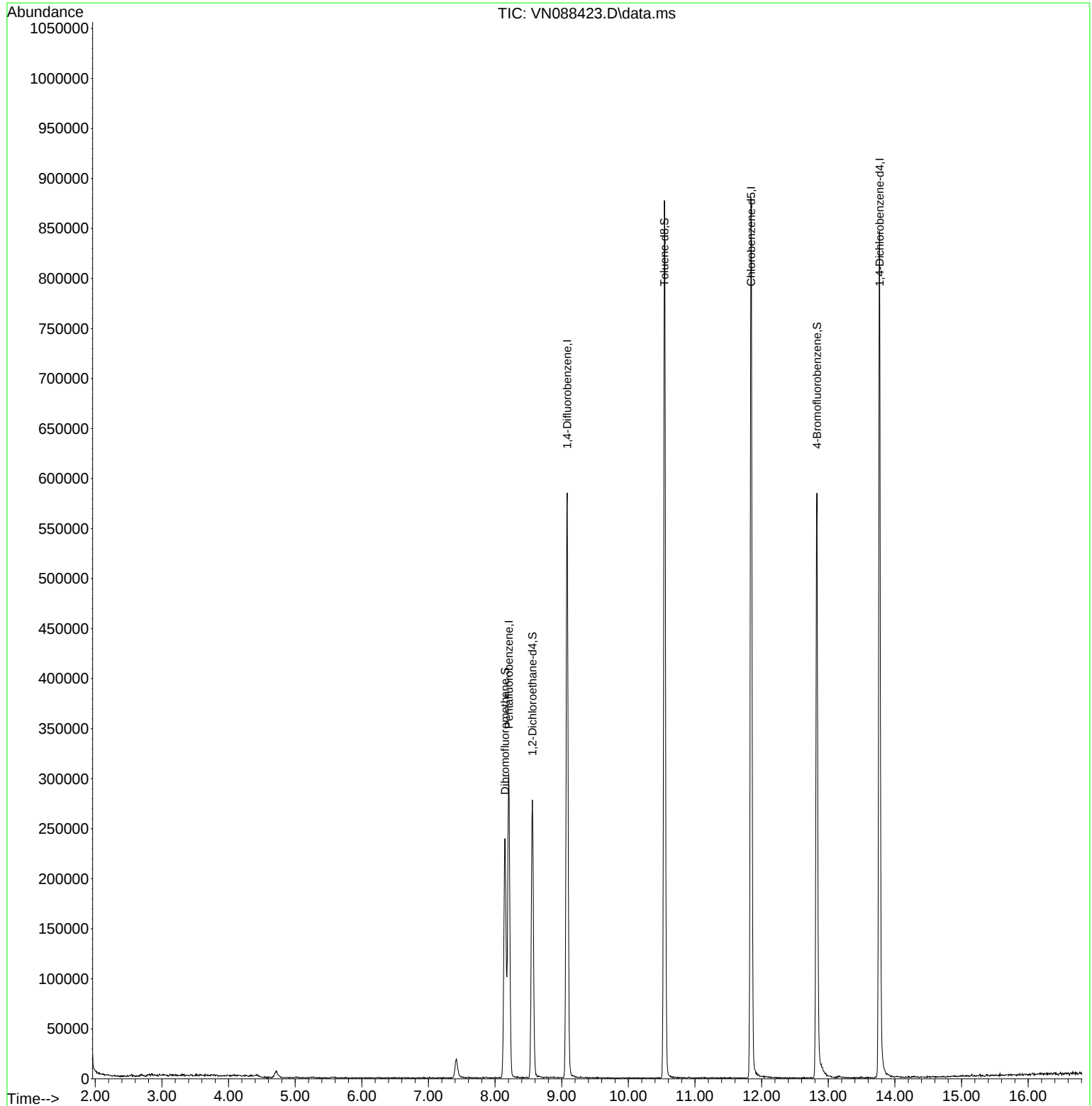
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

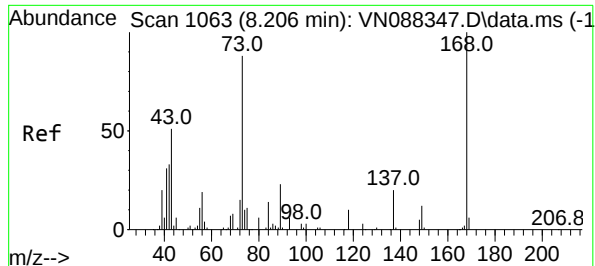
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088423.D
Acq On : 03 Dec 2025 13:12
Operator : JC\MD
Sample : Q3756-10
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Quant Time: Dec 04 00:17:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



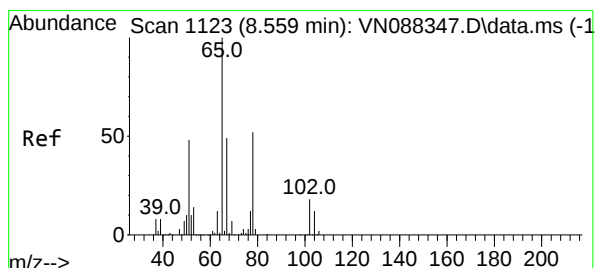
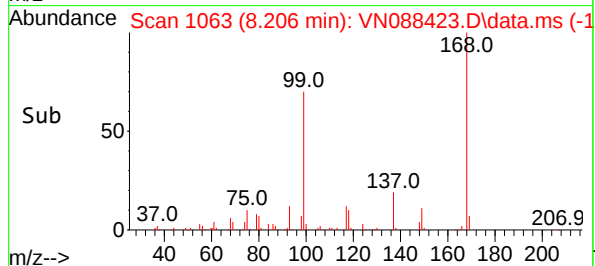
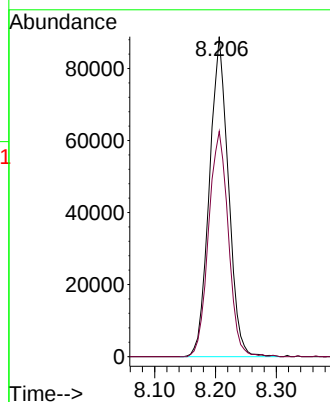
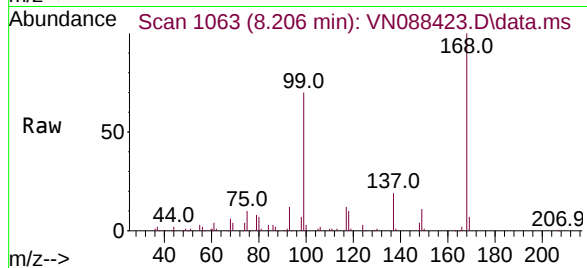
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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

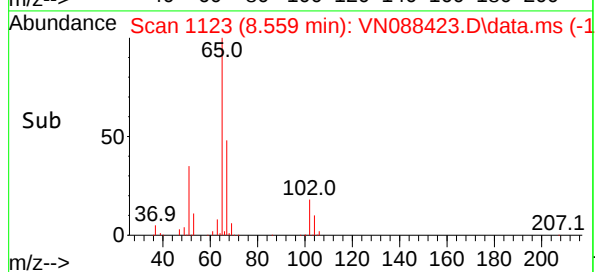
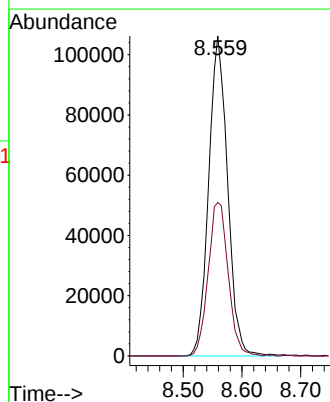
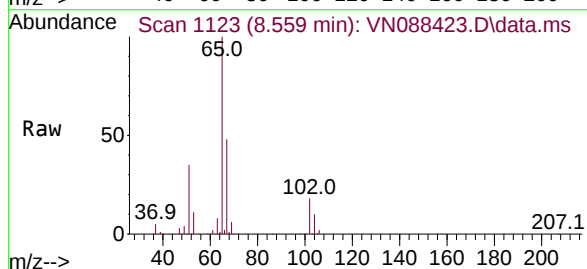
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

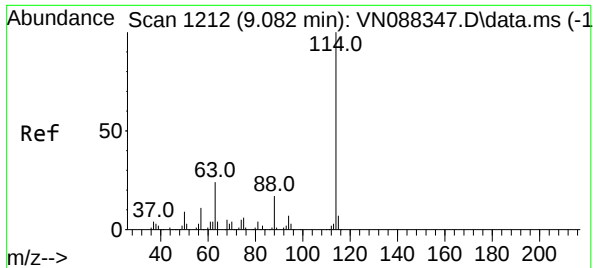
Tgt Ion:168 Resp: 192200
Ion Ratio Lower Upper
168 100
99 70.4 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 65.500 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion: 65 Resp: 237154
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

TB01-120225

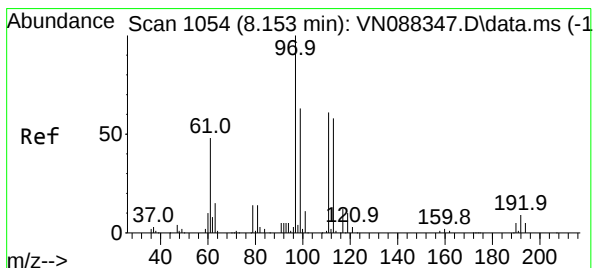
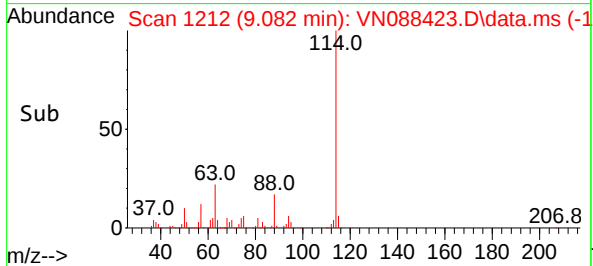
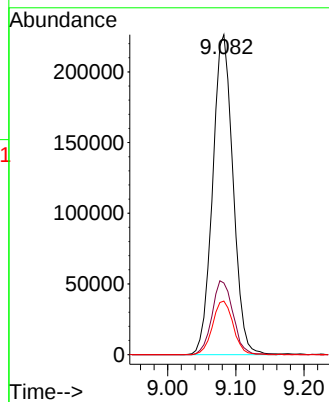
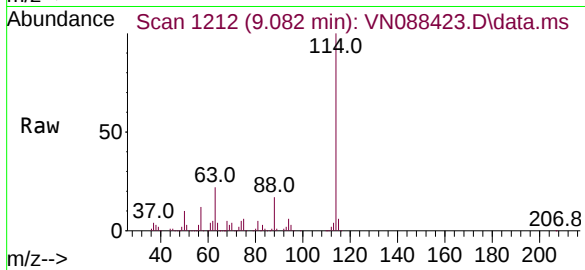
Tgt Ion:114 Resp: 468050

Ion Ratio Lower Upper

114 100

63 22.4 0.0 49.0

88 16.7 0.0 34.0



#35

Dibromofluoromethane

Concen: 51.791 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

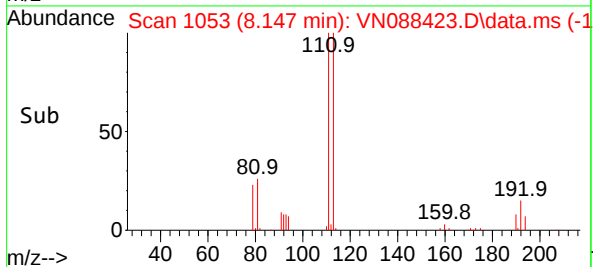
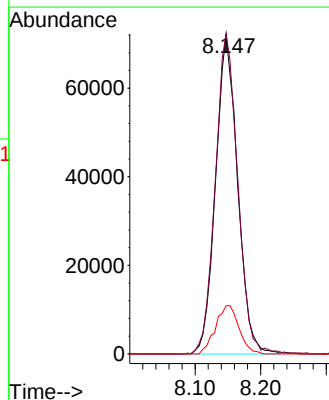
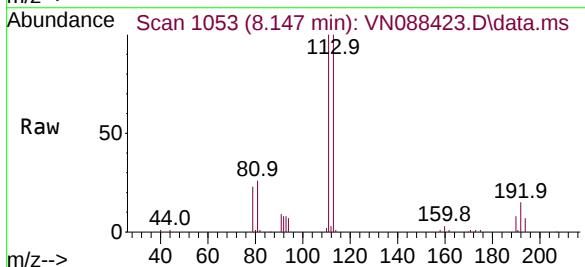
Tgt Ion:113 Resp: 167987

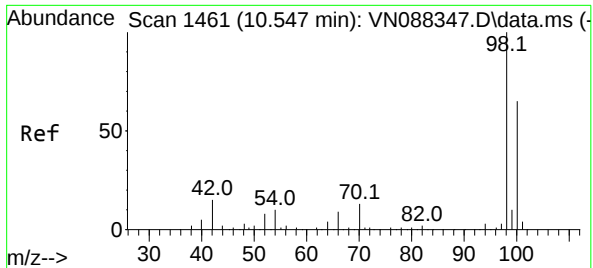
Ion Ratio Lower Upper

113 100

111 102.4 82.5 123.7

192 16.1 12.8 19.2





#50

Toluene-d8

Concen: 48.179 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

Instrument :

MSVOA_N

ClientSampleId :

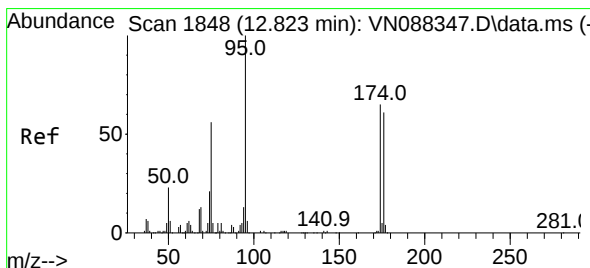
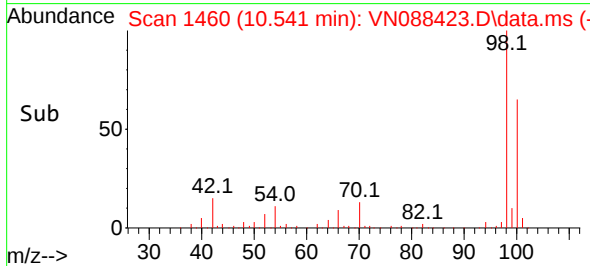
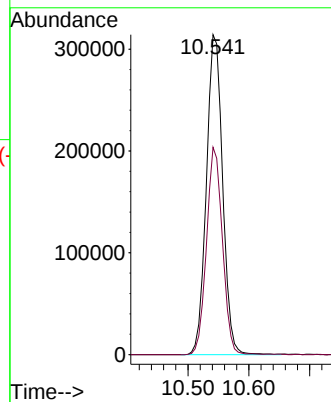
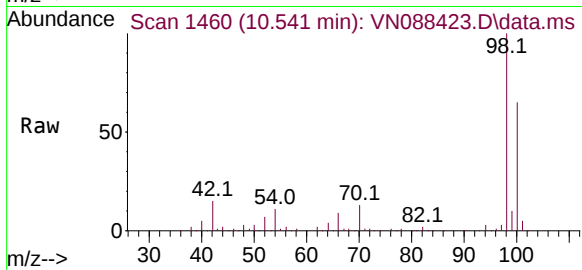
TB01-120225

Tgt Ion: 98 Resp: 581457

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2



#62

4-Bromofluorobenzene

Concen: 50.869 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.006 min

Lab File: VN088423.D

Acq: 03 Dec 2025 13:12

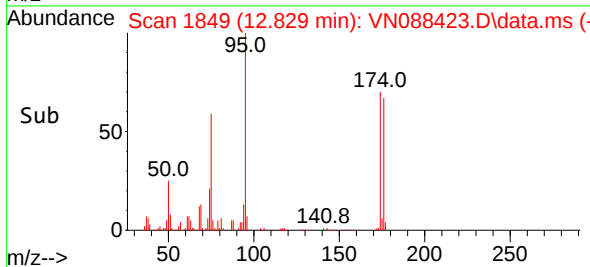
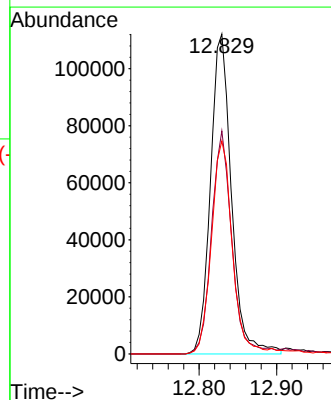
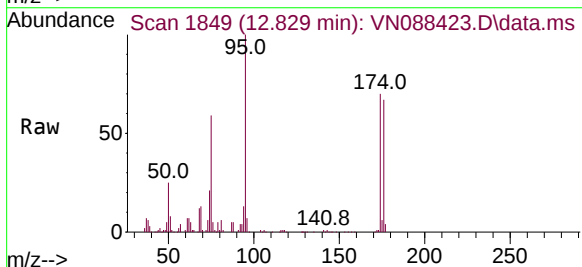
Tgt Ion: 95 Resp: 210648

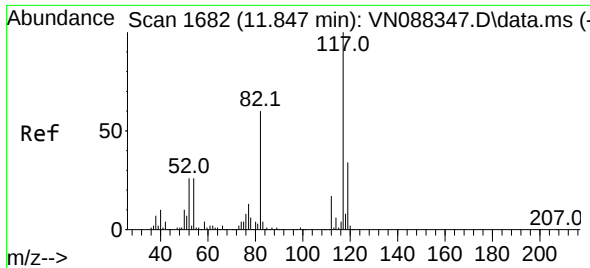
Ion Ratio Lower Upper

95 100

174 67.5 0.0 139.0

176 65.8 0.0 132.4

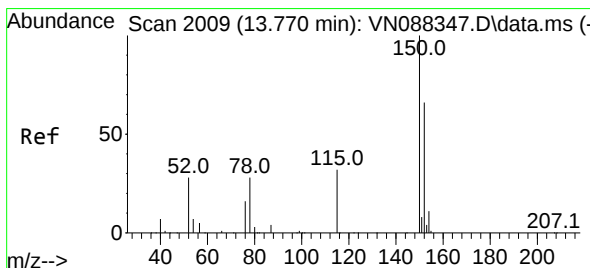
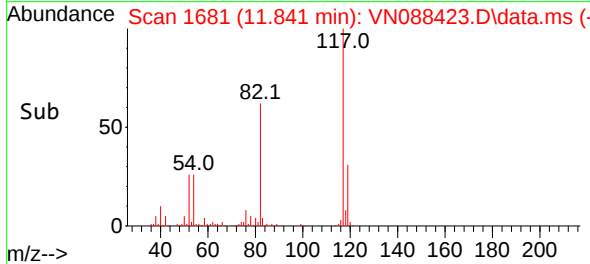
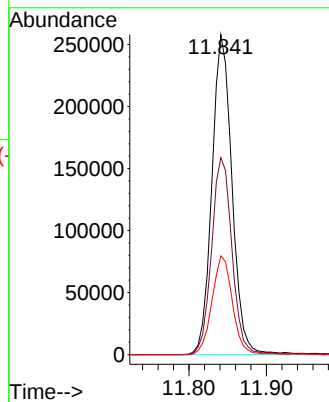
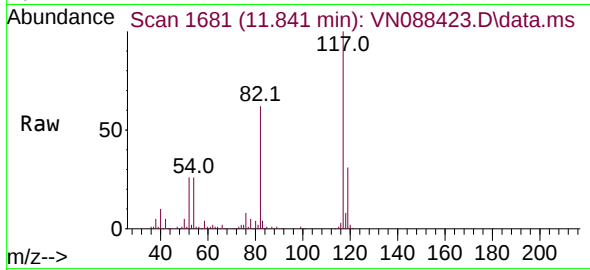




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

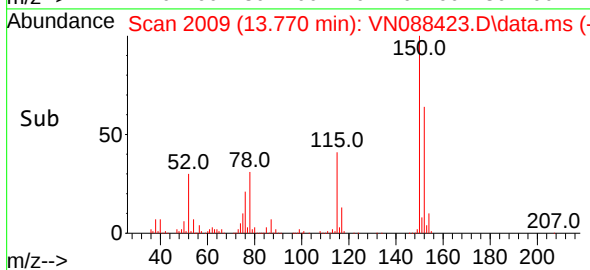
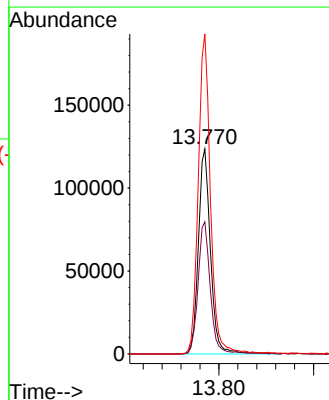
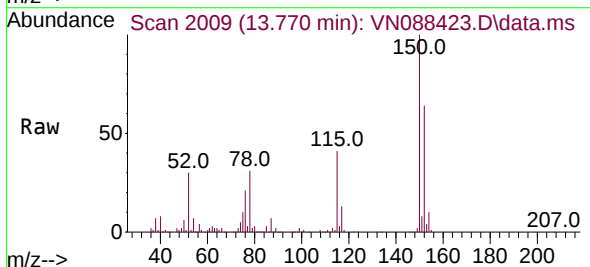
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225

Tgt Ion:117 Resp: 464764
Ion Ratio Lower Upper
117 100
82 61.5 47.8 71.8
119 30.8 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088423.D
Acq: 03 Dec 2025 13:12

Tgt Ion:152 Resp: 219360
Ion Ratio Lower Upper
152 100
115 64.9 33.0 98.9
150 157.0 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088434.D
 Acq On : 03 Dec 2025 16:58
 Operator : JC\MD
 Sample : Q3756-10RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120225RE

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Quant Time: Dec 04 00:23:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	223956	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	518301	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	518638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	245675	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	230323	54.593	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 109.180%	
35) Dibromofluoromethane	8.147	113	160791	44.766	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 89.540%	
50) Toluene-d8	10.547	98	560829	41.965	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 83.920%#	
62) 4-Bromofluorobenzene	12.829	95	202134	44.081	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 88.160%	

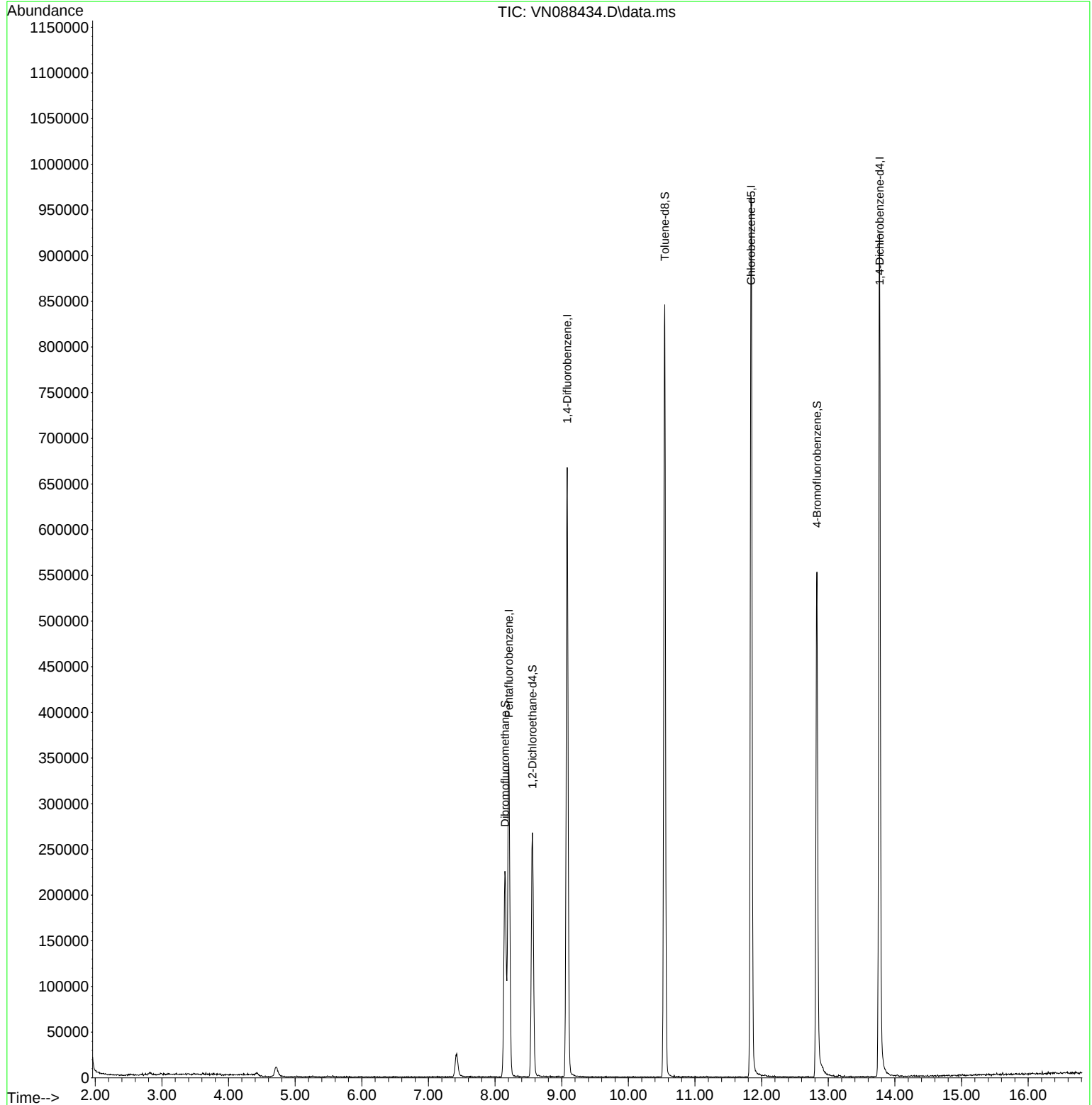
Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

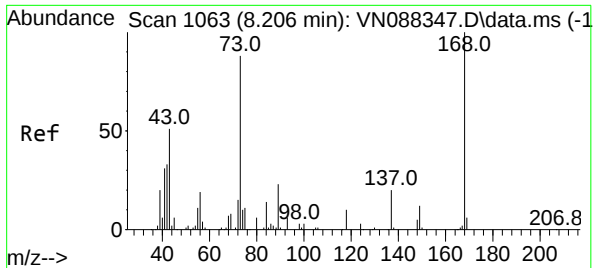
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Data File : VN088434.D
Acq On : 03 Dec 2025 16:58
Operator : JC\MD
Sample : Q3756-10RE
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Quant Time: Dec 04 00:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



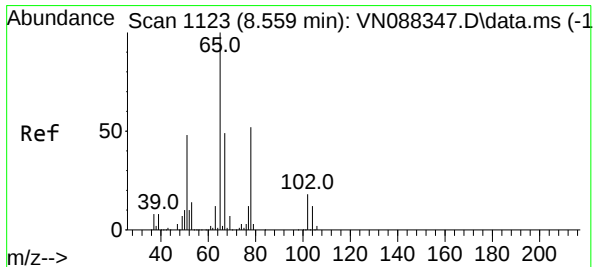
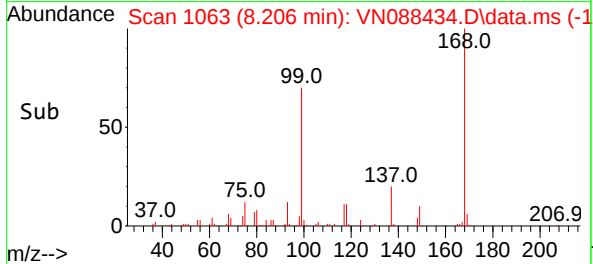
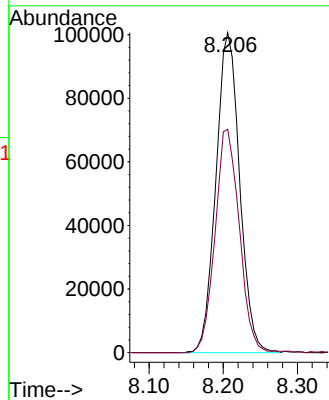
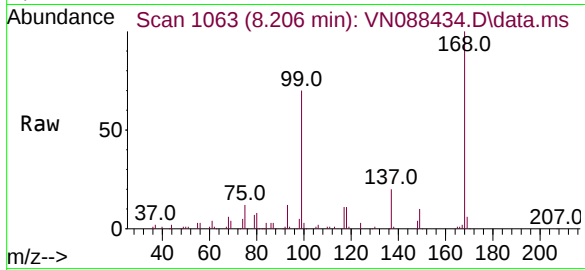
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#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

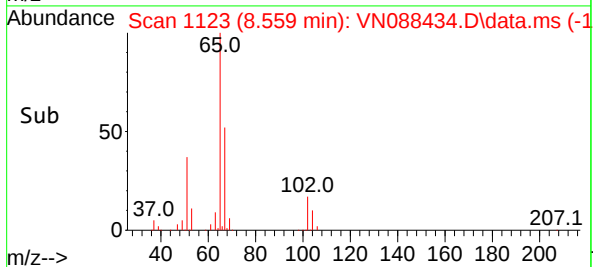
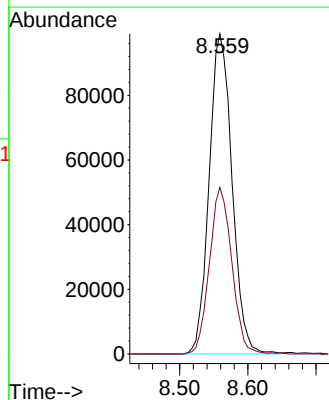
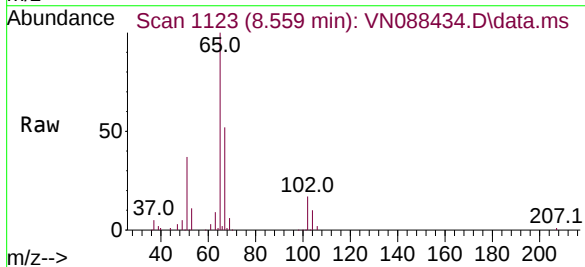
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

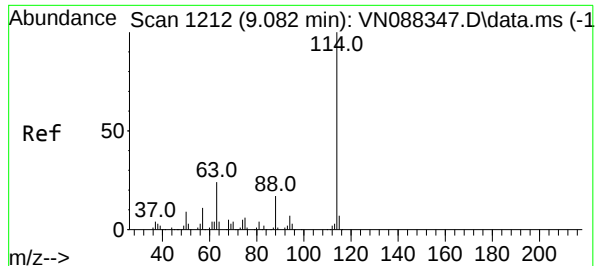
Tgt Ion:168 Resp: 223956
Ion Ratio Lower Upper
168 100
99 69.8 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 54.593 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 65 Resp: 230323
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088434.D

Acq: 03 Dec 2025 16:58

Instrument :

MSVOA_N

ClientSampleId :

TB01-120225RE

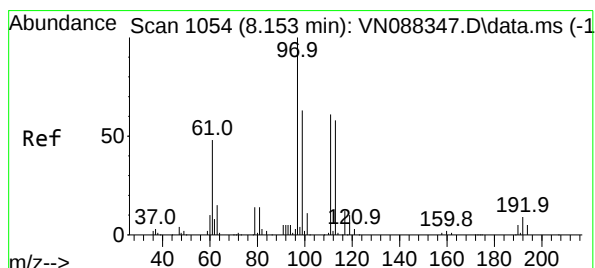
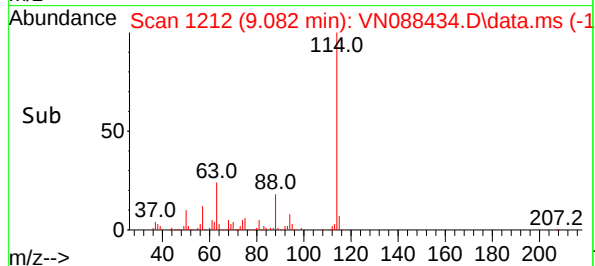
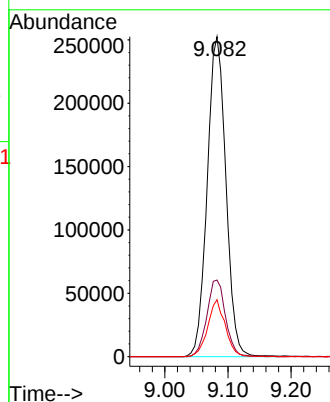
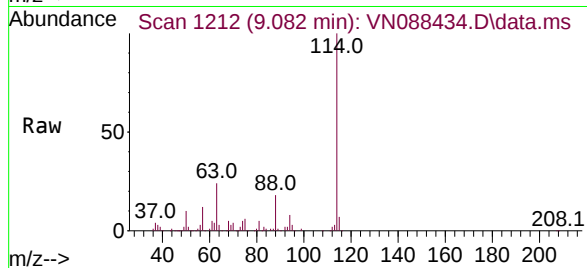
Tgt Ion:114 Resp: 518301

Ion Ratio Lower Upper

114 100

63 23.9 0.0 49.0

88 17.8 0.0 34.0



#35

Dibromofluoromethane

Concen: 44.766 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088434.D

Acq: 03 Dec 2025 16:58

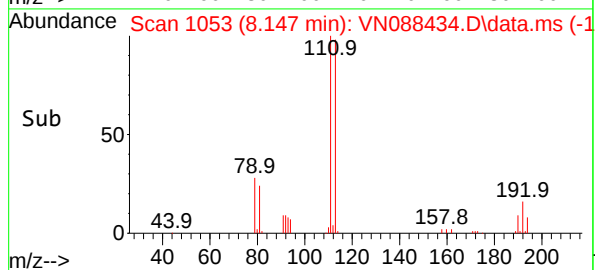
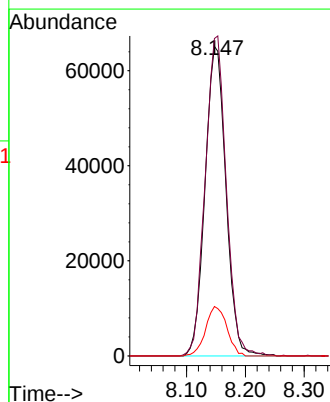
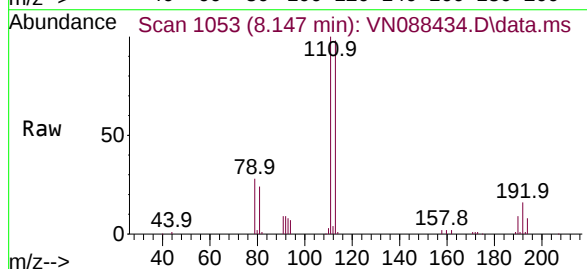
Tgt Ion:113 Resp: 160791

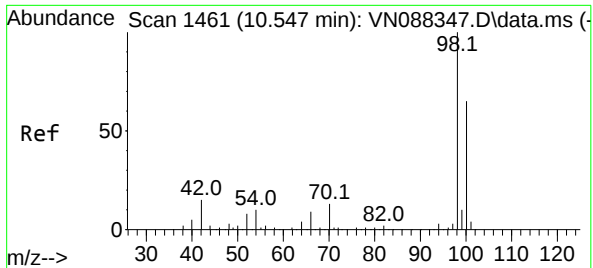
Ion Ratio Lower Upper

113 100

111 104.6 82.5 123.7

192 16.2 12.8 19.2

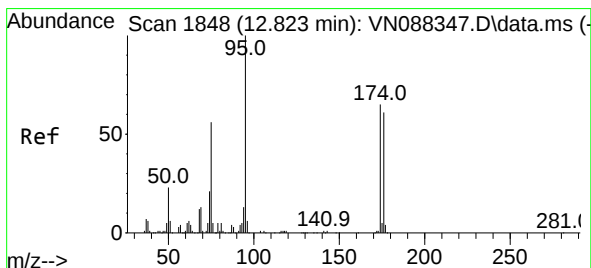
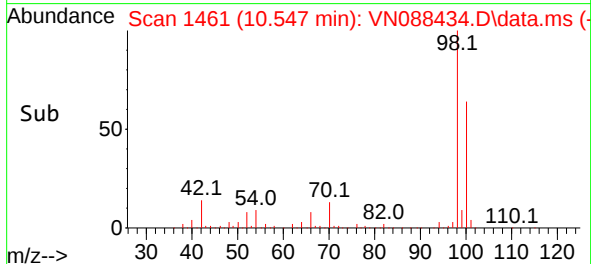
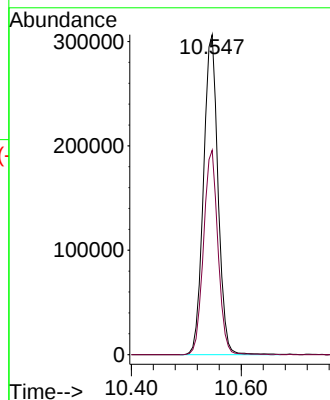
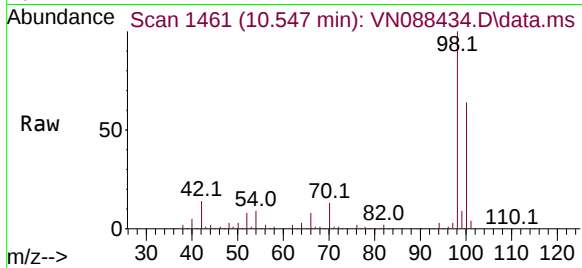




#50
Toluene-d8
Concen: 41.965 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

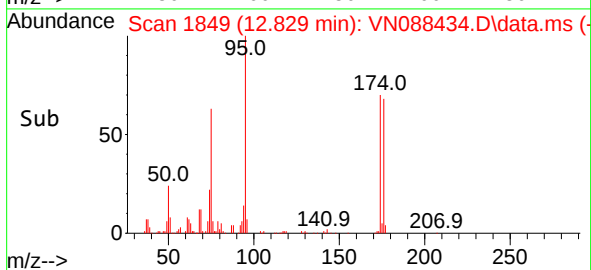
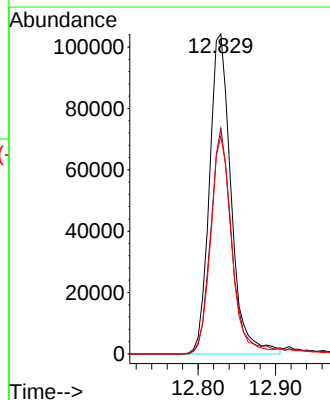
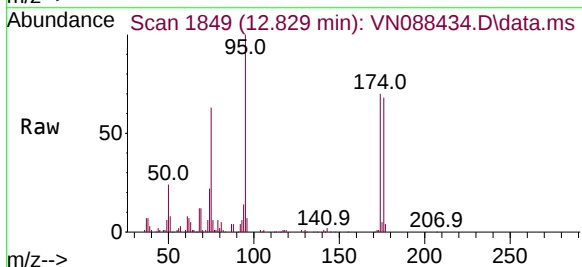
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

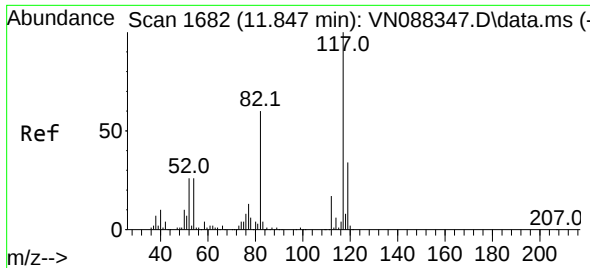
Tgt Ion: 98 Resp: 560829
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 44.081 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion: 95 Resp: 202134
Ion Ratio Lower Upper
95 100
174 69.0 0.0 139.0
176 66.4 0.0 132.4

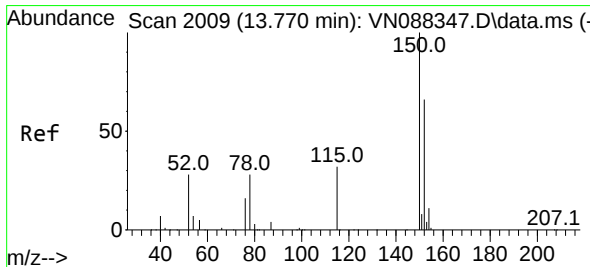
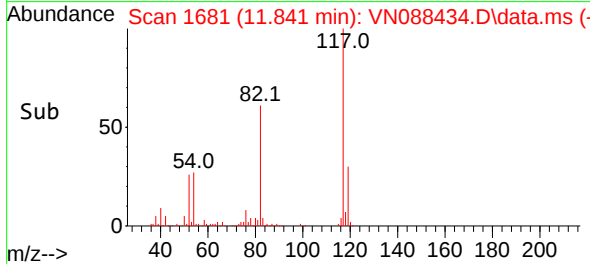
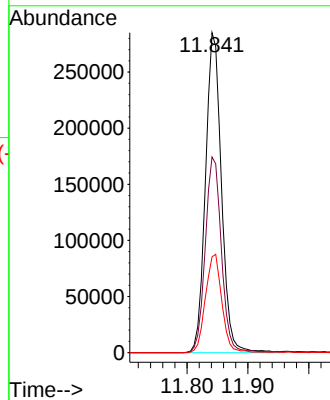
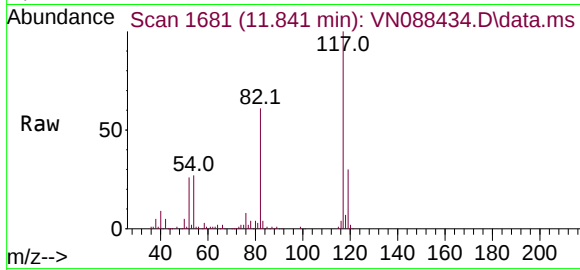




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

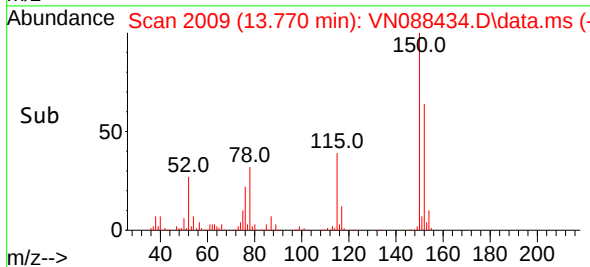
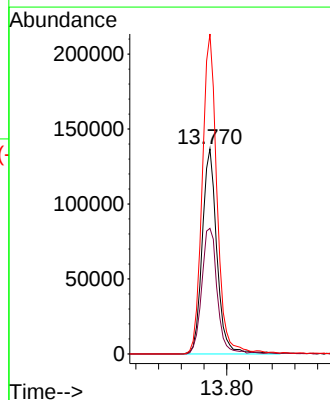
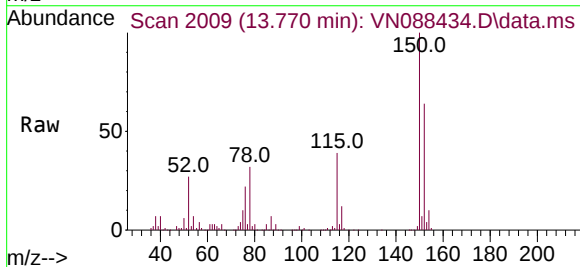
Instrument :
MSVOA_N
ClientSampleId :
TB01-120225RE

Tgt Ion:	117	Resp:	518638
Ion Ratio	Lower	Upper	
117	100		
82	61.1	47.8	71.8
119	29.9	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088434.D
Acq: 03 Dec 2025 16:58

Tgt Ion:	152	Resp:	245675
Ion Ratio	Lower	Upper	
152	100		
115	64.1	33.0	98.9
150	155.8	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

A

B

C

D

E

F

G

H

I

J

Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	179578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	416539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	402638	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	186090	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	201444	59.548	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	119.100%
35) Dibromofluoromethane	8.147	113	146402	50.718	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.440%
50) Toluene-d8	10.541	98	511270	47.603	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.200%
62) 4-Bromofluorobenzene	12.829	95	173481	47.075	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	94.140%

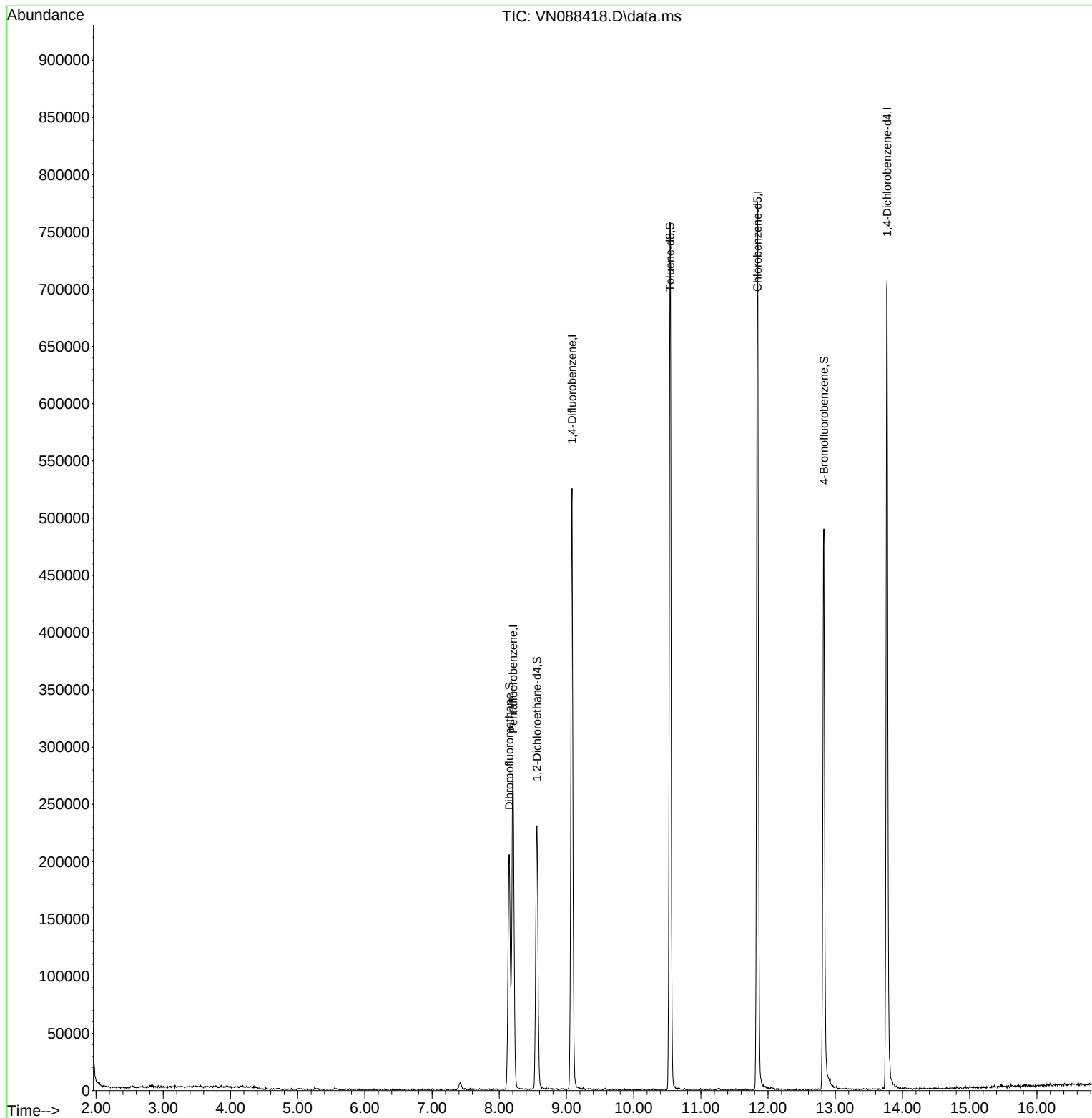
Target Compounds	Qvalue

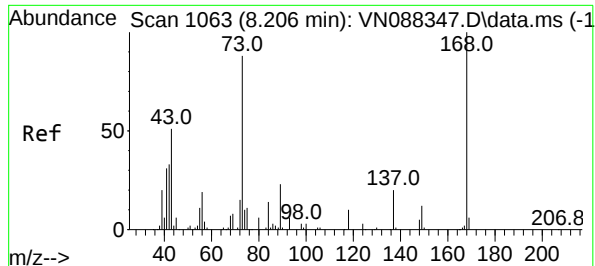
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088418.D
Acq On : 03 Dec 2025 11:03
Operator : JC\MD
Sample : VN1203WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Quant Time: Dec 04 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

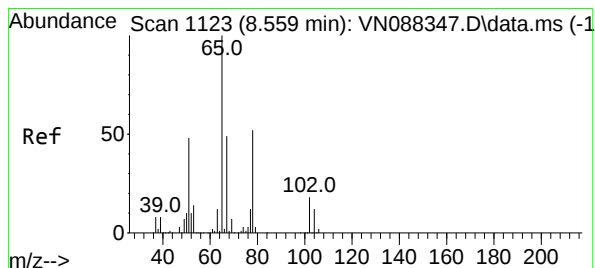
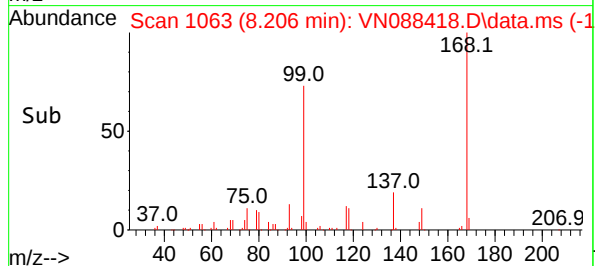
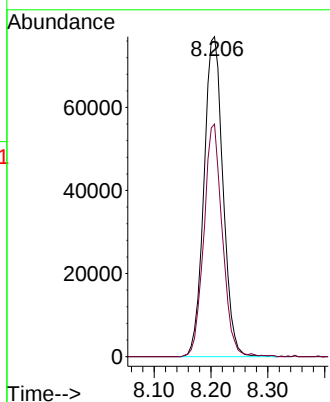
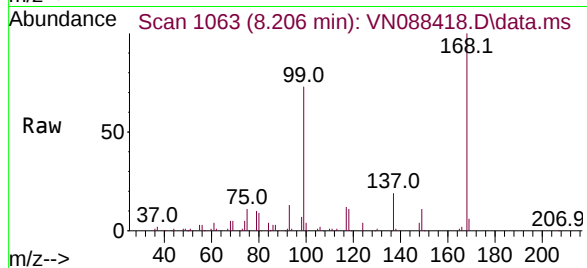




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

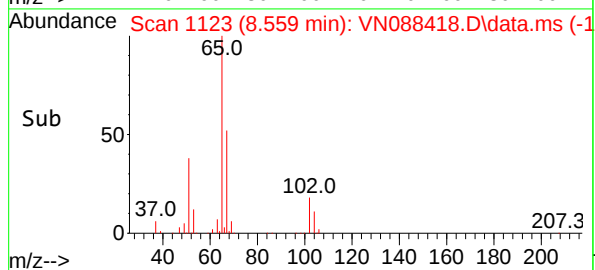
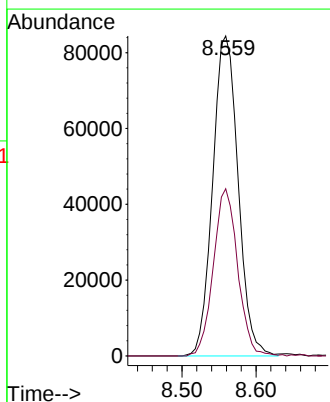
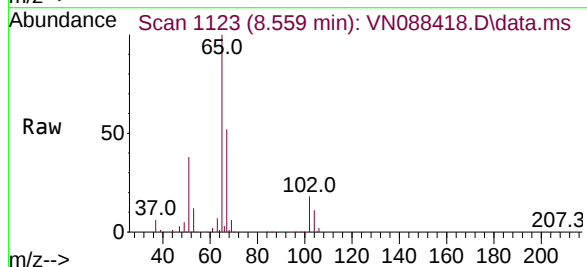
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

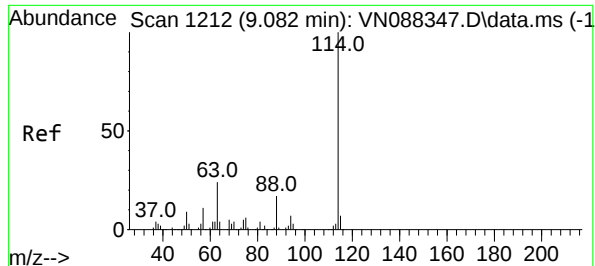
Tgt Ion:168 Resp: 179578
Ion Ratio Lower Upper
168 100
99 72.7 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 59.548 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 65 Resp: 201444
Ion Ratio Lower Upper
65 100
67 49.9 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088418.D

Acq: 03 Dec 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN1203WBL01

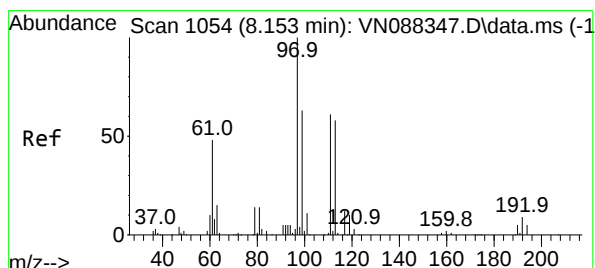
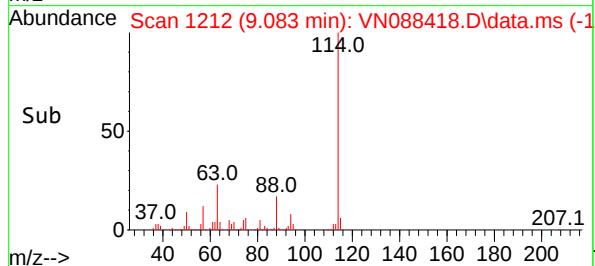
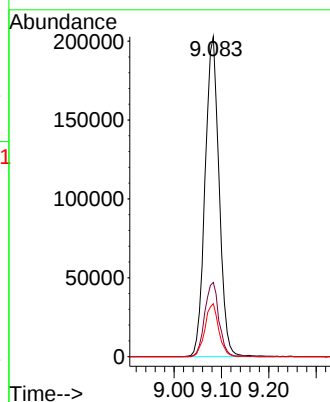
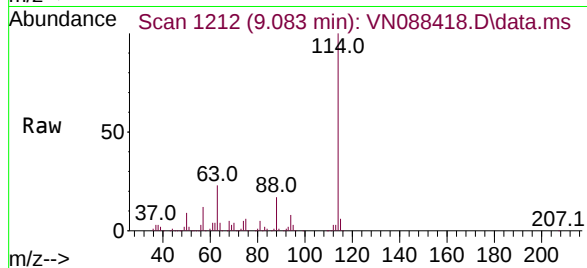
Tgt Ion:114 Resp: 416539

Ion Ratio Lower Upper

114 100

63 23.2 0.0 49.0

88 16.5 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.718 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088418.D

Acq: 03 Dec 2025 11:03

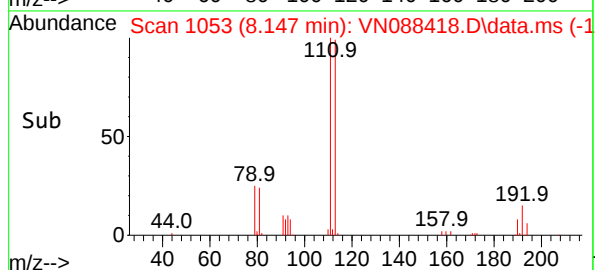
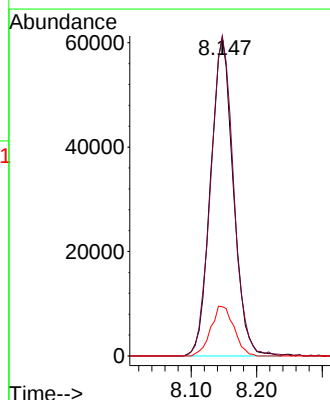
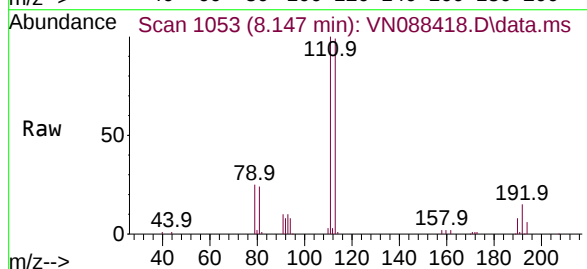
Tgt Ion:113 Resp: 146402

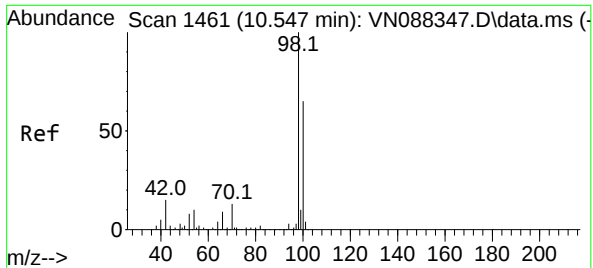
Ion Ratio Lower Upper

113 100

111 101.7 82.5 123.7

192 15.9 12.8 19.2

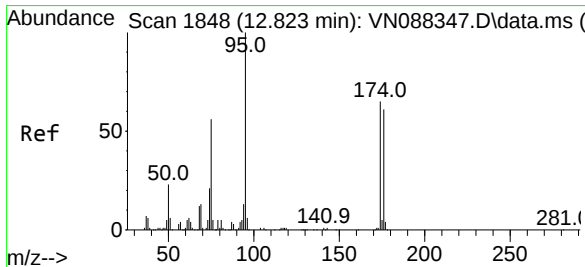
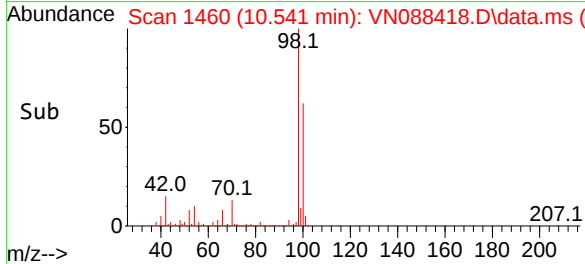
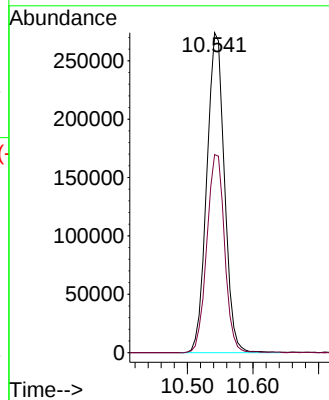
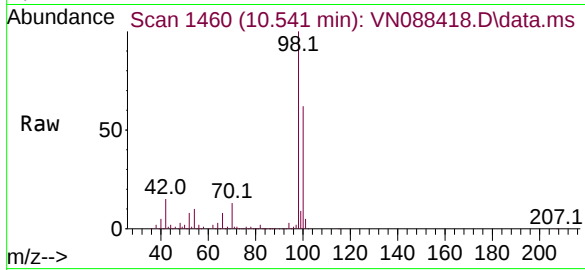




#50
Toluene-d8
Concen: 47.603 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

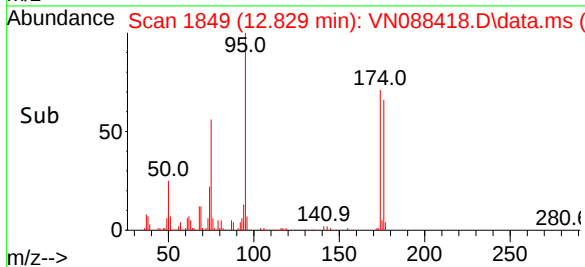
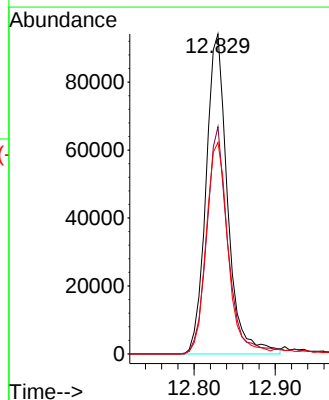
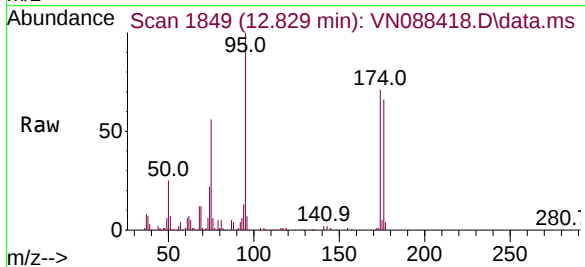
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

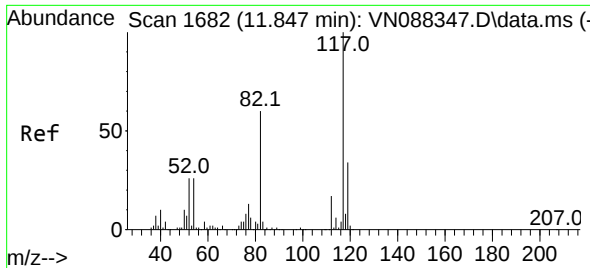
Tgt Ion: 98 Resp: 511270
Ion Ratio Lower Upper
98 100
100 62.3 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 47.075 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion: 95 Resp: 173481
Ion Ratio Lower Upper
95 100
174 70.2 0.0 139.0
176 67.4 0.0 132.4

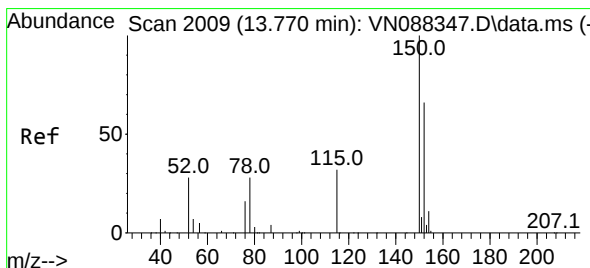
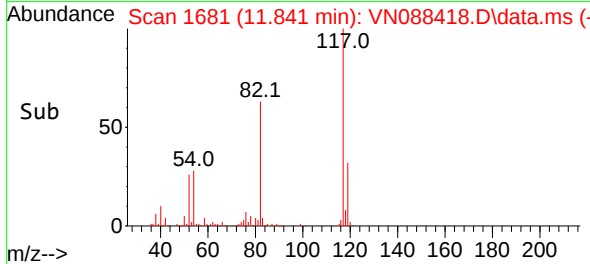
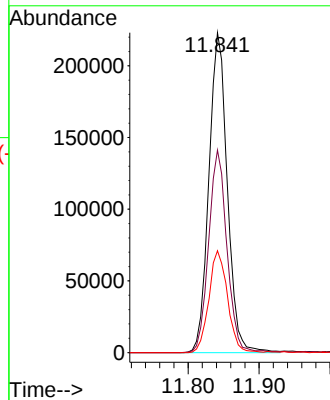
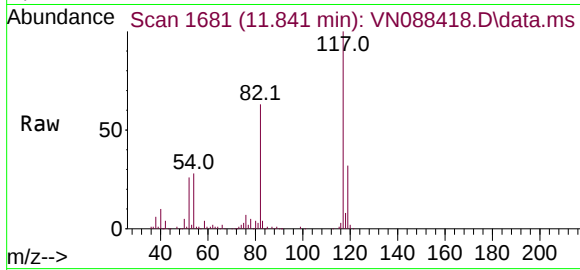




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1682
Delta R.T. -0.006 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

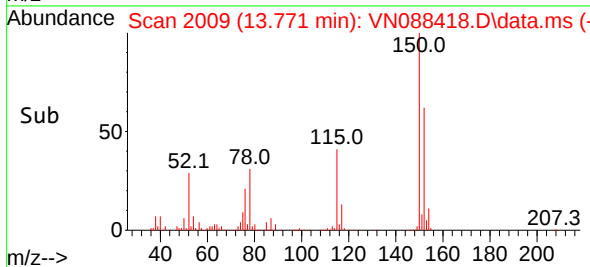
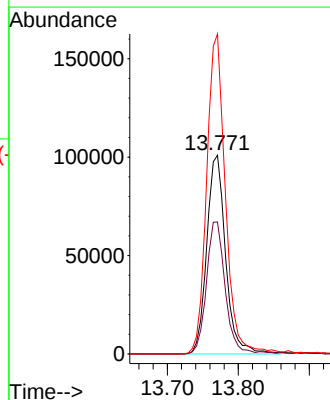
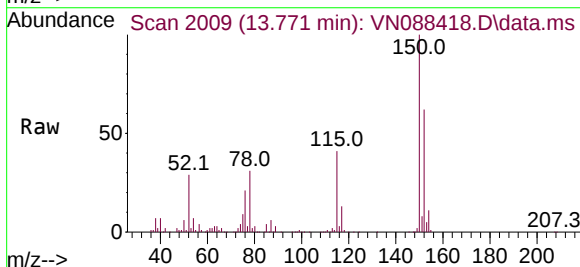
Instrument :
MSVOA_N
ClientSampleId :
VN1203WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.3	47.8	71.8
119	31.8	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088418.D
Acq: 03 Dec 2025 11:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	65.3	33.0	98.9
150	159.4	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

A
B
C
D
E
F
G
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I
J

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	236600	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	556948	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	555675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	258091	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	275126	61.728	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	123.460%
35) Dibromofluoromethane	8.147	113	196090	50.805	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.620%
50) Toluene-d8	10.541	98	670134	46.664	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	93.320%
62) 4-Bromofluorobenzene	12.829	95	246023	49.929	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.860%

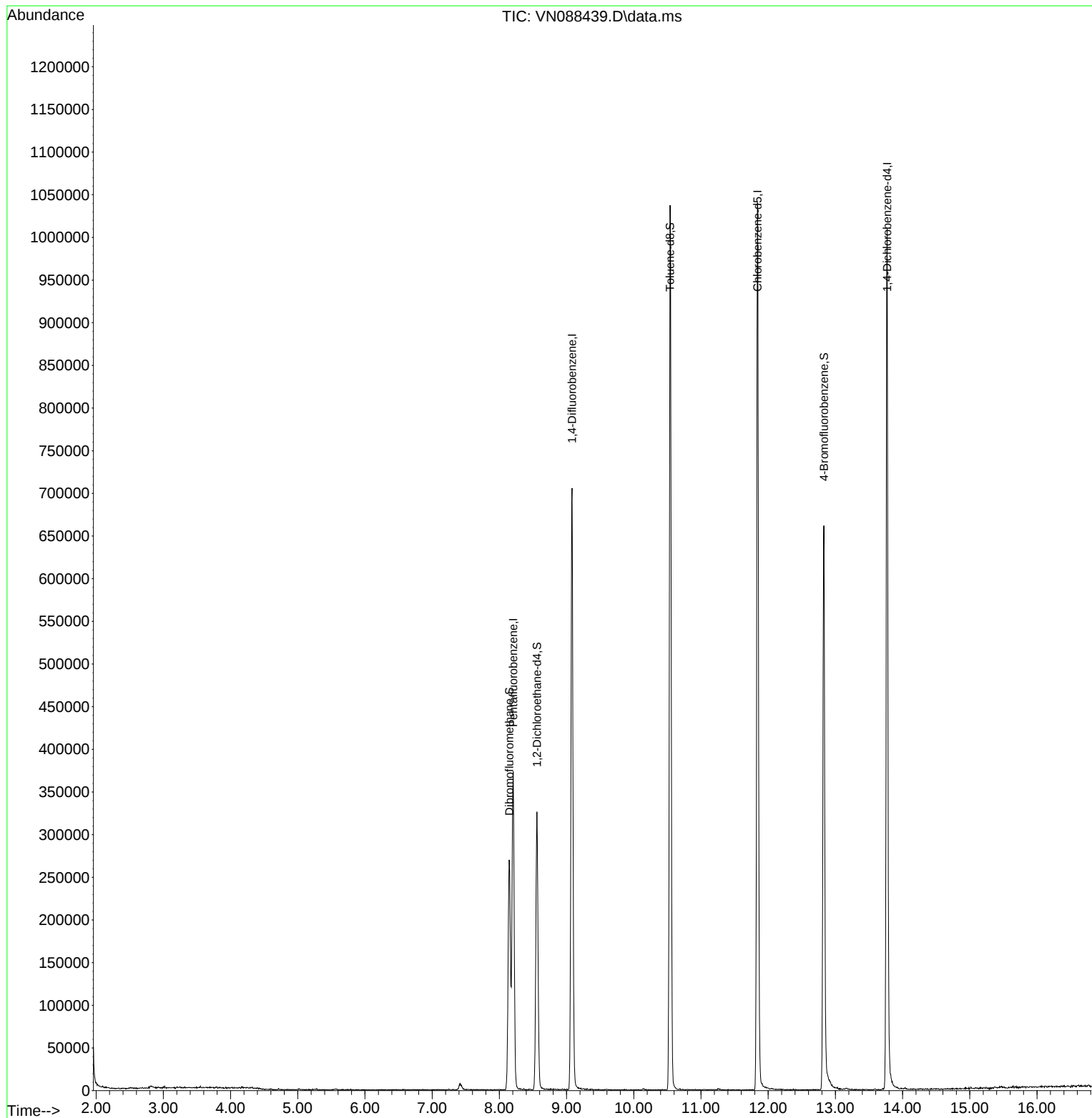
Target Compounds	Qvalue

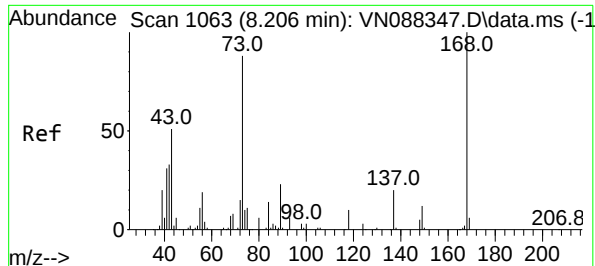
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088439.D
Acq On : 04 Dec 2025 12:38
Operator : JC\MD
Sample : VN1204WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Quant Time: Dec 05 00:12:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

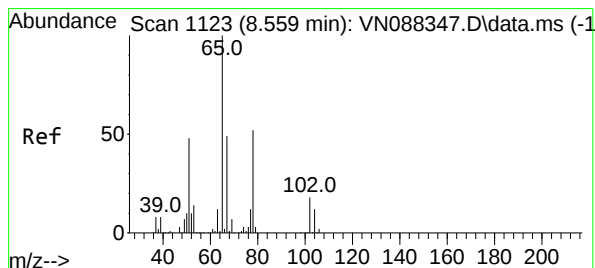
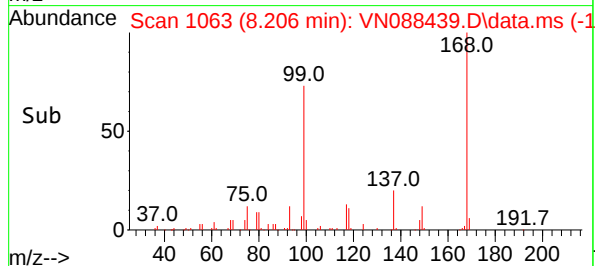
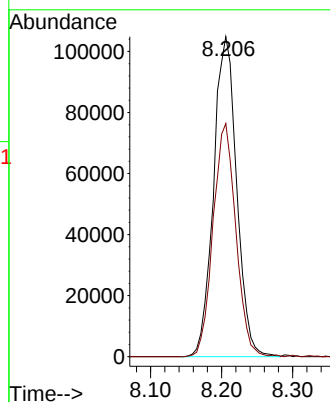
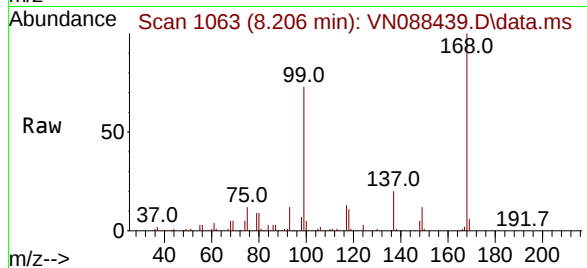




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

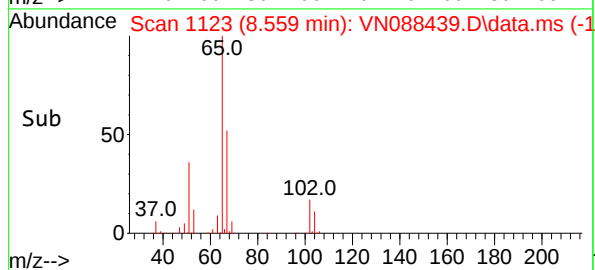
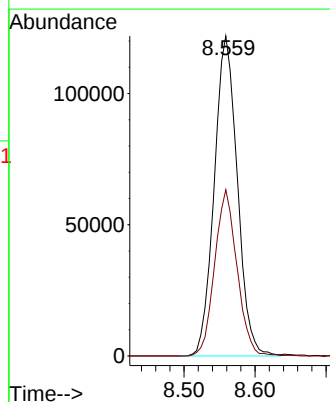
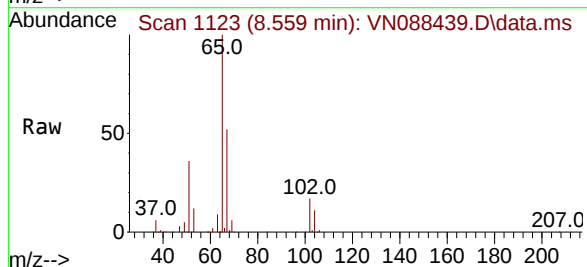
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

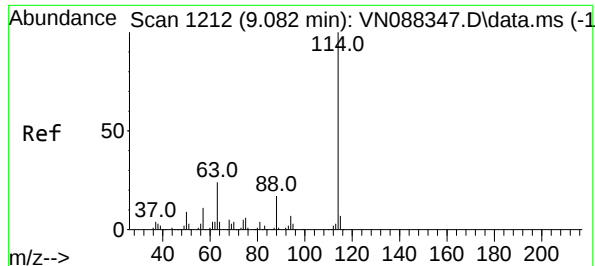
Tgt Ion:168 Resp: 236600
Ion Ratio Lower Upper
168 100
99 72.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 61.728 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 65 Resp: 275126
Ion Ratio Lower Upper
65 100
67 50.2 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN088439.D

Acq: 04 Dec 2025 12:38

Instrument :

MSVOA_N

ClientSampleId :

VN1204WBL01

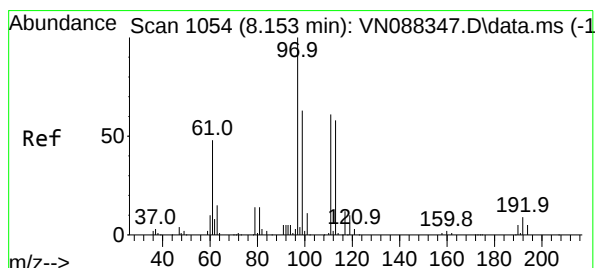
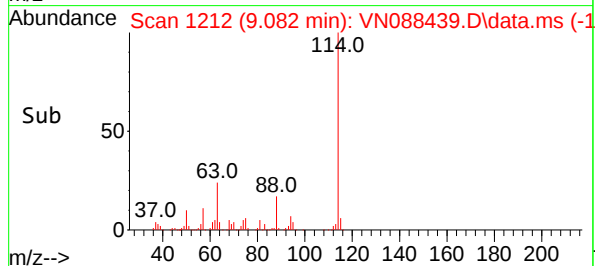
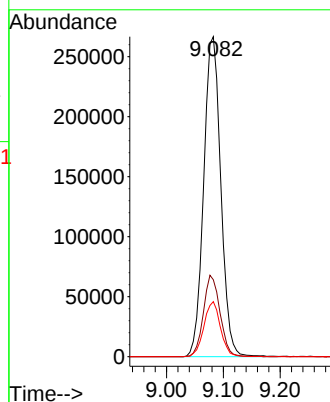
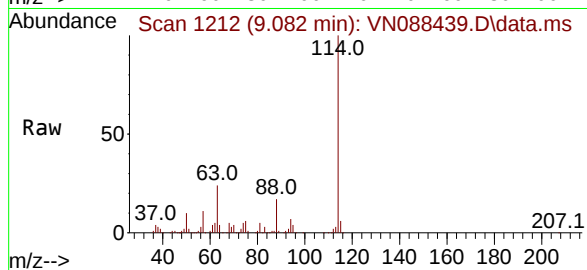
Tgt Ion:114 Resp: 556948

Ion Ratio Lower Upper

114 100

63 24.1 0.0 49.0

88 17.2 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.805 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088439.D

Acq: 04 Dec 2025 12:38

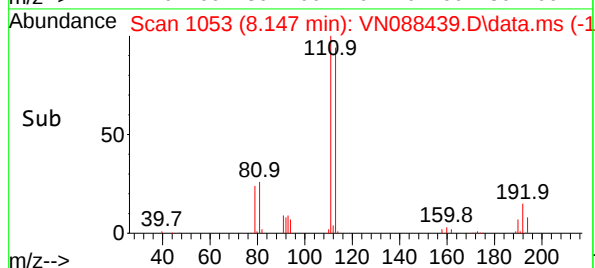
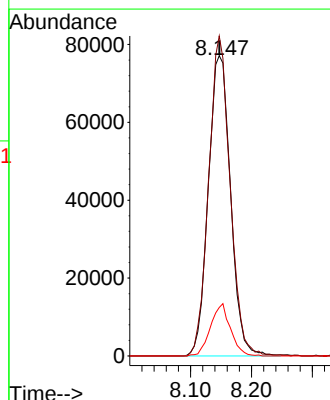
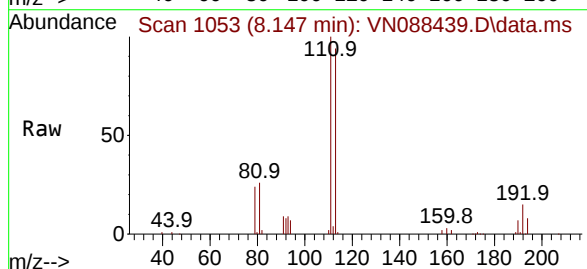
Tgt Ion:113 Resp: 196090

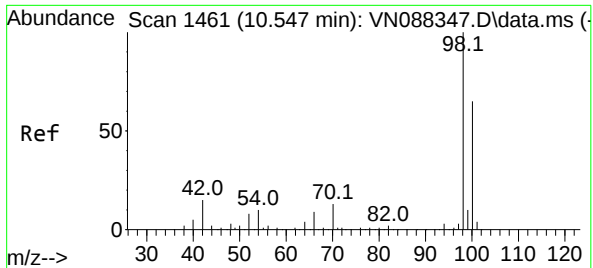
Ion Ratio Lower Upper

113 100

111 102.2 82.5 123.7

192 15.6 12.8 19.2

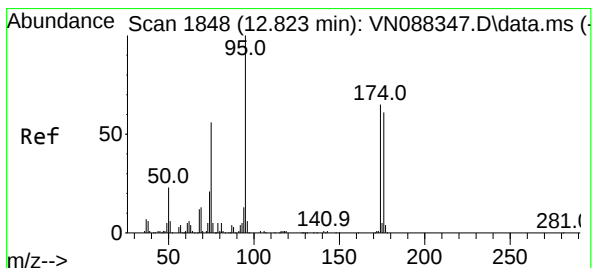
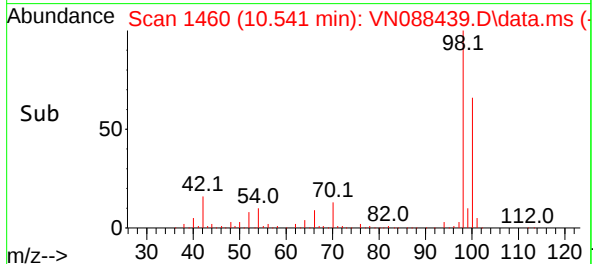
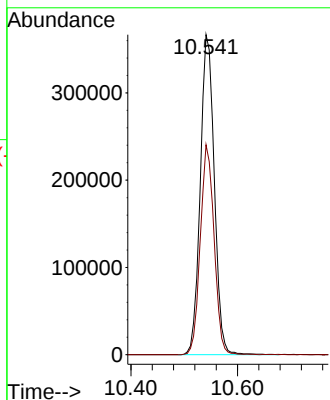
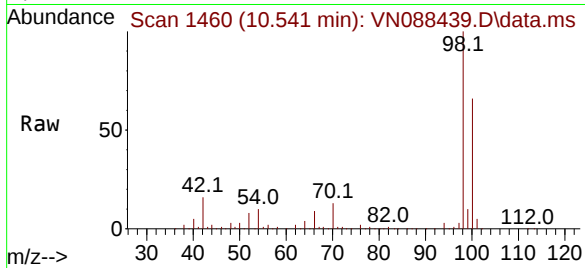




#50
Toluene-d8
Concen: 46.664 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

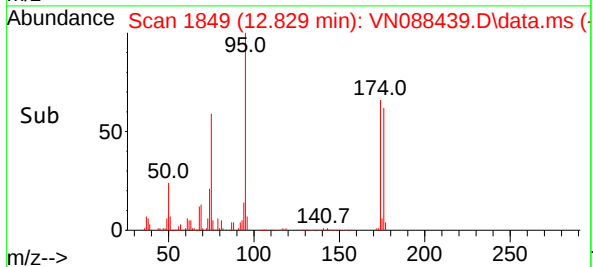
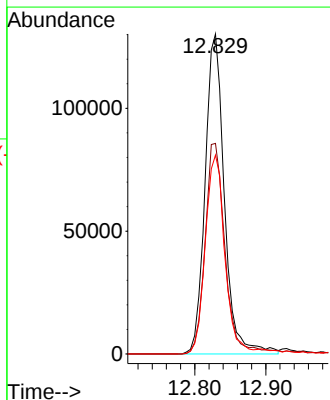
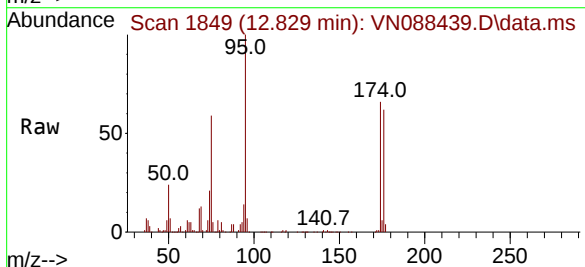
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

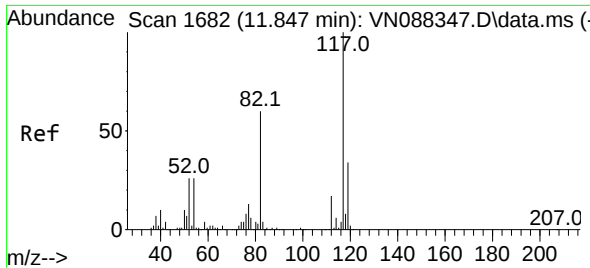
Tgt Ion: 98 Resp: 670134
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 49.929 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion: 95 Resp: 246023
Ion Ratio Lower Upper
95 100
174 68.9 0.0 139.0
176 62.6 0.0 132.4

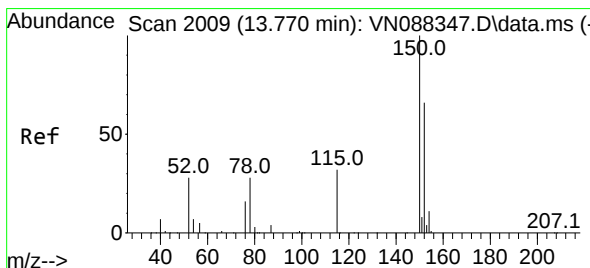
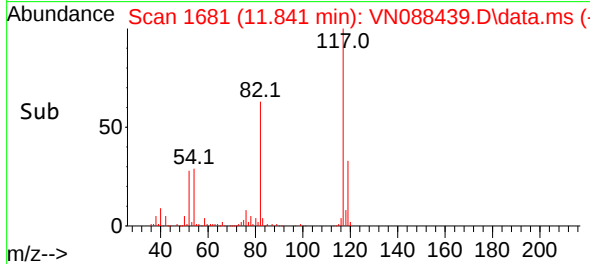
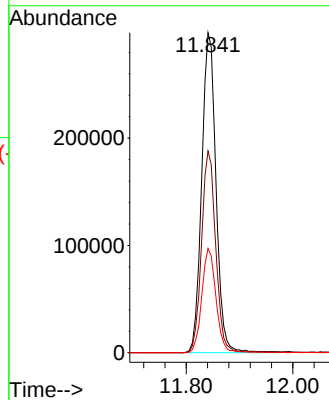
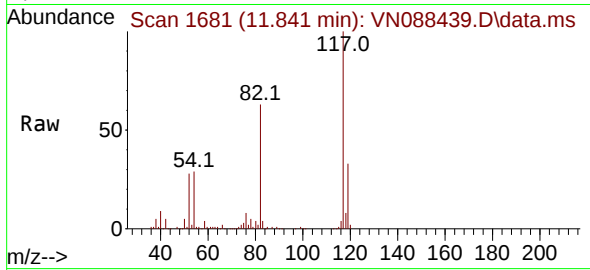




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

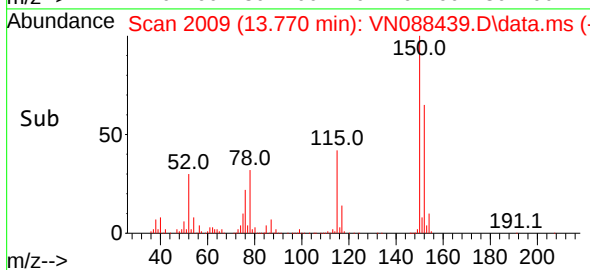
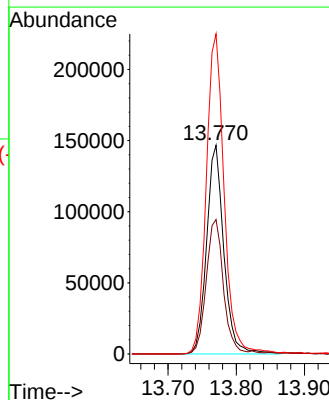
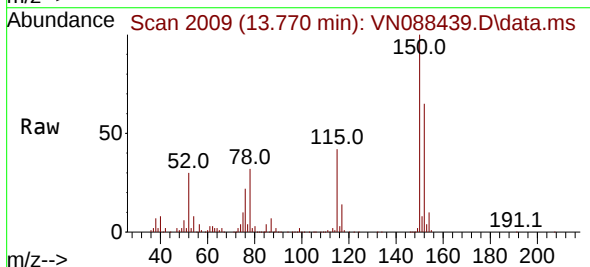
Instrument :
MSVOA_N
ClientSampleId :
VN1204WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	63.0	47.8	71.8
119	32.6	26.9	40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. -0.000 min
Lab File: VN088439.D
Acq: 04 Dec 2025 12:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.9	33.0	98.9
150	158.8	0.0	349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088419.D
 Acq On : 03 Dec 2025 11:38
 Operator : JC\MD
 Sample : VN1203WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/04/2025
 Supervised By : Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	204614	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	382235	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	345174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	173546	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	209173	54.267	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 108.540%	
35) Dibromofluoromethane	8.147	113	135788	51.263	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.520%	
50) Toluene-d8	10.547	98	488254	49.539	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 99.080%	
62) 4-Bromofluorobenzene	12.829	95	166873	49.346	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 98.700%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	60629	19.728	ug/l	99
3) Chloromethane	2.383	50	65720	19.910	ug/l	100
4) Vinyl Chloride	2.536	62	65541	19.518	ug/l	89
5) Bromomethane	2.983	94	34053	21.070	ug/l	94
6) Chloroethane	3.142	64	43089	20.735	ug/l	98
7) Trichlorofluoromethane	3.518	101	94329	19.987	ug/l	98
8) Diethyl Ether	3.965	74	36580	20.650	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.371	101	49588	19.736	ug/l	98
10) Methyl Iodide	4.583	142	41239	16.580	ug/l	92
11) Tert butyl alcohol	5.512	59	54309	88.250	ug/l	100
12) 1,1-Dichloroethene	4.347	96	47292	18.945	ug/l	95
13) Acrolein	4.171	56	59542	101.061	ug/l	97
14) Allyl chloride	5.018	41	89883	19.426	ug/l	99
15) Acrylonitrile	5.706	53	178927	100.773	ug/l	98
16) Acetone	4.424	43	128167	91.942	ug/l	97
17) Carbon Disulfide	4.712	76	158397	19.418	ug/l	98
18) Methyl Acetate	5.024	43	84767	20.428	ug/l	99
19) Methyl tert-butyl Ether	5.782	73	194085	20.752	ug/l	99
20) Methylene Chloride	5.271	84	63283	21.218	ug/l	98
21) trans-1,2-Dichloroethene	5.777	96	55829	20.189	ug/l	94
22) Diisopropyl ether	6.653	45	214599	21.725	ug/l	97
23) Vinyl Acetate	6.588	43	930390	116.902	ug/l	99
24) 1,1-Dichloroethane	6.547	63	120920	21.616	ug/l	98
25) 2-Butanone	7.465	43	221378	98.785	ug/l	96
26) 2,2-Dichloropropane	7.471	77	99733	20.655	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	66616	20.728	ug/l	97
28) Bromochloromethane	7.800	49	55880	20.052	ug/l	97
29) Tetrahydrofuran	7.824	42	159218	99.052	ug/l	99
30) Chloroform	7.947	83	120855	21.987	ug/l	97
31) Cyclohexane	8.235	56	96506	19.037	ug/l	96
32) 1,1,1-Trichloroethane	8.147	97	99906	20.671	ug/l	91
36) 1,1-Dichloropropene	8.347	75	76957	18.825	ug/l	99
37) Ethyl Acetate	7.547	43	107252	19.953	ug/l	100
38) Carbon Tetrachloride	8.335	117	84507	20.765	ug/l	93
39) Methylcyclohexane	9.582	83	75011	17.154	ug/l	90
40) Benzene	8.582	78	243262	20.274	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088419.D
 Acq On : 03 Dec 2025 11:38
 Operator : JC\MD
 Sample : VN1203WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/04/2025
 Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:15:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	53665	20.157	ug/l	99
42) 1,2-Dichloroethane	8.653	62	102116	22.307	ug/l	100
43) Isopropyl Acetate	8.671	43	159565	19.429	ug/l	100
44) Trichloroethene	9.329	130	54294	19.151	ug/l	96
45) 1,2-Dichloropropane	9.600	63	64434	20.960	ug/l	93
46) Dibromomethane	9.688	93	46137	21.030	ug/l	99
47) Bromodichloromethane	9.865	83	97667	21.818	ug/l	89
48) Methyl methacrylate	9.659	41	76248	20.348	ug/l	98
49) 1,4-Dioxane	9.682	88	15069	316.210	ug/l #	100
51) 4-Methyl-2-Pentanone	10.423	43	513300	106.034	ug/l	99
52) Toluene	10.606	92	144540	20.863	ug/l	100
53) t-1,3-Dichloropropene	10.812	75	93059	20.253	ug/l	99
54) cis-1,3-Dichloropropene	10.288	75	101913	21.091	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	56551	21.097	ug/l	95
56) Ethyl methacrylate	10.853	69	86232	20.366	ug/l	99
57) 1,3-Dichloropropane	11.141	76	102375	21.171	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.135	63	244731	100.257	ug/l	100
59) 2-Hexanone	11.176	43	299829	98.319	ug/l	100
60) Dibromochloromethane	11.335	129	65438	21.415	ug/l	97
61) 1,2-Dibromoethane	11.447	107	58683	21.619	ug/l	99
64) Tetrachloroethene	11.082	164	45186	16.513	ug/l	95
65) Chlorobenzene	11.864	112	155133	20.009	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.935	131	54875	20.985	ug/l	98
67) Ethyl Benzene	11.941	91	257971	19.037	ug/l	99
68) m/p-Xylenes	12.047	106	189907	37.798	ug/l	97
69) o-Xylene	12.376	106	90507	18.895	ug/l	97
70) Styrene	12.388	104	155850	20.038	ug/l	99
71) Bromoform	12.559	173	39365	20.553	ug/l #	99
73) Isopropylbenzene	12.676	105	232755	18.139	ug/l	99
74) N-amyl acetate	12.688	43	97909m	22.405	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.911	83	81442	19.633	ug/l	100
76) 1,2,3-Trichloropropane	12.970	75	72180m	17.758	ug/l	
77) Bromobenzene	12.959	156	57417	19.557	ug/l	98
78) n-propylbenzene	13.011	91	289837	18.463	ug/l	100
79) 2-Chlorotoluene	13.100	91	179184	18.692	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	205222	19.301	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.717	75	25746	17.969	ug/l #	73
82) 4-Chlorotoluene	13.200	91	187794	19.723	ug/l	98
83) tert-Butylbenzene	13.411	119	160403	17.746	ug/l	98
84) 1,2,4-Trimethylbenzene	13.458	105	200317	18.954	ug/l	99
85) sec-Butylbenzene	13.594	105	232322	17.891	ug/l	99
86) p-Isopropyltoluene	13.706	119	189351	17.783	ug/l	98
87) 1,3-Dichlorobenzene	13.711	146	109325	19.129	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	117948	19.702	ug/l	99
89) n-Butylbenzene	14.029	91	180513	17.460	ug/l	98
90) Hexachloroethane	14.311	117	36435	18.731	ug/l	97
91) 1,2-Dichlorobenzene	14.082	146	104500	19.430	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.694	75	18143	18.026	ug/l	96
93) 1,2,4-Trichlorobenzene	15.364	180	56227	17.595	ug/l	98
94) Hexachlorobutadiene	15.470	225	19920	17.347	ug/l	97
95) Naphthalene	15.617	128	185176	16.723	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	54328	17.469	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

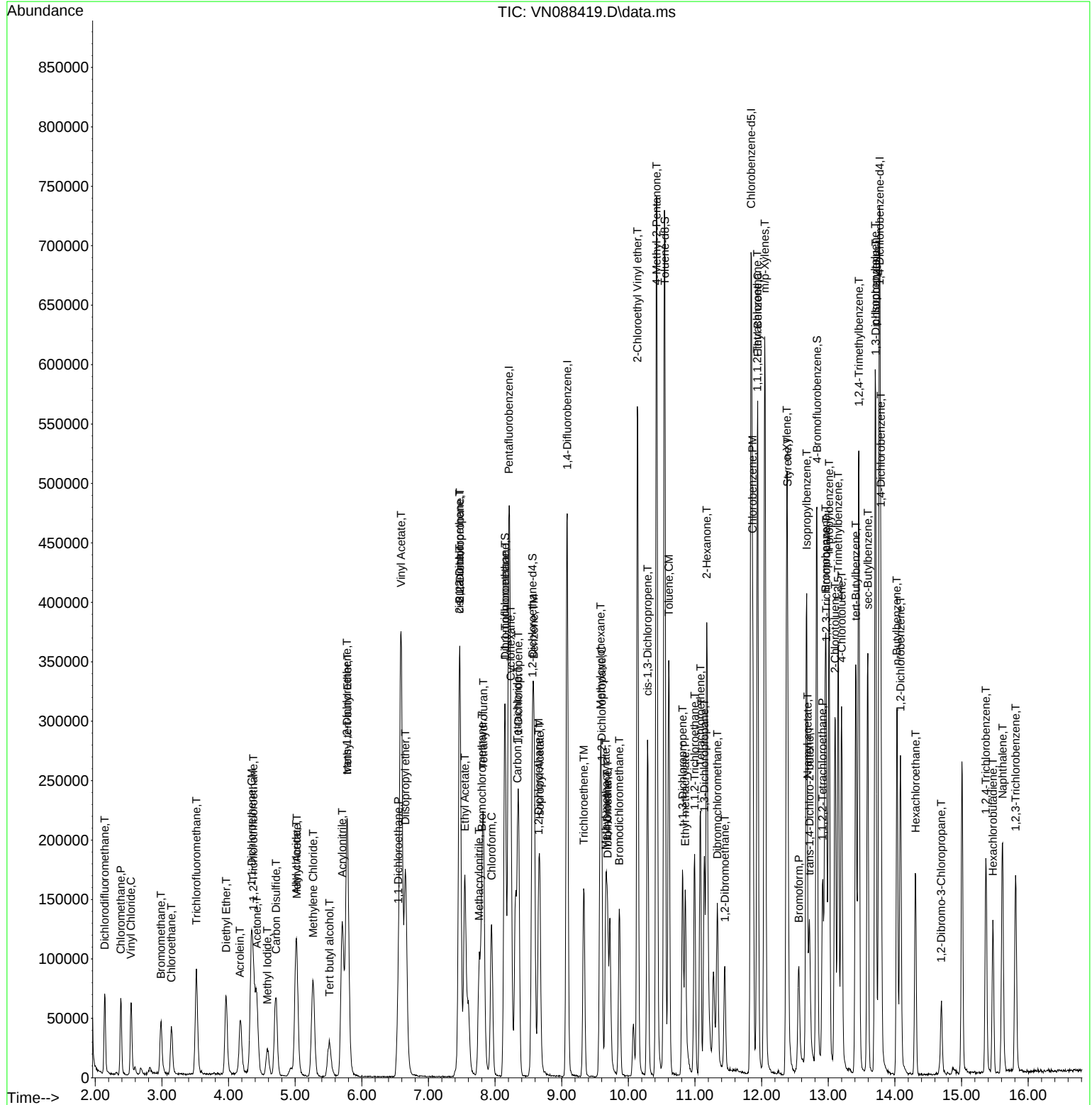
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Data File : VN088419.D
Acq On : 03 Dec 2025 11:38
Operator : JC\MD
Sample : VN1203WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBS01

Quant Time: Dec 04 00:15:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/04/2025
Supervised By : Semsettin Yesilyurt 12/04/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088443.D
 Acq On : 04 Dec 2025 14:12
 Operator : JC\MD
 Sample : VN1204WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	303745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	559564	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	491842	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	237731	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	307567	53.752	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 107.500%	
35) Dibromofluoromethane	8.147	113	196606	50.701	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.400%	
50) Toluene-d8	10.547	98	745425	51.664	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.320%	
62) 4-Bromofluorobenzene	12.823	95	269159	54.369	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.740%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	97797	21.436	ug/l	93
3) Chloromethane	2.383	50	93145	19.009	ug/l	96
4) Vinyl Chloride	2.536	62	100990	20.259	ug/l	100
5) Bromomethane	2.983	94	46454	19.362	ug/l	91
6) Chloroethane	3.142	64	62589	20.289	ug/l	98
7) Trichlorofluoromethane	3.512	101	150074	21.421	ug/l	95
8) Diethyl Ether	3.959	74	53546	20.363	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	78946	21.166	ug/l	99
10) Methyl Iodide	4.583	142	63657	17.241	ug/l	93
11) Tert butyl alcohol	5.506	59	76083	83.283	ug/l	97
12) 1,1-Dichloroethene	4.342	96	75627	20.408	ug/l	96
13) Acrolein	4.183	56	95364	109.036	ug/l	98
14) Allyl chloride	5.012	41	131363	19.125	ug/l	97
15) Acrylonitrile	5.706	53	244233	92.662	ug/l	99
16) Acetone	4.424	43	183497	88.674	ug/l	96
17) Carbon Disulfide	4.712	76	223379	18.447	ug/l	96
18) Methyl Acetate	5.018	43	120530	19.567	ug/l	99
19) Methyl tert-butyl Ether	5.783	73	272930	19.658	ug/l	99
20) Methylene Chloride	5.265	84	81214	18.343	ug/l	99
21) trans-1,2-Dichloroethene	5.777	96	79259	19.308	ug/l	98
22) Diisopropyl ether	6.659	45	293315	20.002	ug/l	98
23) Vinyl Acetate	6.588	43	1278749	108.235	ug/l	99
24) 1,1-Dichloroethane	6.553	63	162999	19.628	ug/l	97
25) 2-Butanone	7.465	43	310201	93.245	ug/l	100
26) 2,2-Dichloropropane	7.471	77	150702	21.025	ug/l	97
27) cis-1,2-Dichloroethene	7.471	96	90646	19.000	ug/l	96
28) Bromochloromethane	7.794	49	70911	17.142	ug/l	98
29) Tetrahydrofuran	7.818	42	228135	95.607	ug/l	98
30) Chloroform	7.953	83	165040	20.226	ug/l	100
31) Cyclohexane	8.241	56	151560	20.140	ug/l	99
32) 1,1,1-Trichloroethane	8.147	97	148393	20.683	ug/l	97
36) 1,1-Dichloropropene	8.353	75	116928	19.538	ug/l	98
37) Ethyl Acetate	7.547	43	137369	17.457	ug/l	97
38) Carbon Tetrachloride	8.341	117	123356	20.706	ug/l	98
39) Methylcyclohexane	9.582	83	125506	19.606	ug/l	90
40) Benzene	8.582	78	339466	19.326	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088443.D
 Acq On : 04 Dec 2025 14:12
 Operator : JC\MD
 Sample : VN1204WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
 Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	74031	18.995	ug/l	99
42) 1,2-Dichloroethane	8.647	62	139506	20.817	ug/l	97
43) Isopropyl Acetate	8.671	43	224127	18.642	ug/l	99
44) Trichloroethene	9.329	130	76077	18.330	ug/l	97
45) 1,2-Dichloropropane	9.600	63	87062	19.346	ug/l	99
46) Dibromomethane	9.688	93	62387	19.425	ug/l	99
47) Bromodichloromethane	9.865	83	130611	19.931	ug/l	99
48) Methyl methacrylate	9.659	41	104044	18.966	ug/l	99
49) 1,4-Dioxane	9.677	88	21834	312.972	ug/l #	94
51) 4-Methyl-2-Pentanone	10.424	43	704216	99.372	ug/l	100
52) Toluene	10.606	92	205014	20.214	ug/l	99
53) t-1,3-Dichloropropene	10.812	75	131896	19.609	ug/l	100
54) cis-1,3-Dichloropropene	10.288	75	137564	19.447	ug/l	96
55) 1,1,2-Trichloroethane	10.994	97	77993	19.876	ug/l	96
56) Ethyl methacrylate	10.853	69	122489	19.761	ug/l	99
57) 1,3-Dichloropropane	11.141	76	141160	19.940	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.135	63	316457	88.556	ug/l	98
59) 2-Hexanone	11.176	43	422202	94.573	ug/l	99
60) Dibromochloromethane	11.335	129	89380	19.980	ug/l	100
61) 1,2-Dibromoethane	11.447	107	78746	19.817	ug/l	98
64) Tetrachloroethene	11.082	164	70474	18.074	ug/l	94
65) Chlorobenzene	11.870	112	218454	19.774	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.941	131	72384	19.426	ug/l	96
67) Ethyl Benzene	11.941	91	390956	20.247	ug/l	98
68) m/p-Xylenes	12.047	106	286124	39.966	ug/l	96
69) o-Xylene	12.370	106	139831	20.487	ug/l	99
70) Styrene	12.388	104	232254	20.957	ug/l	99
71) Bromoform	12.553	173	55870	20.471	ug/l #	99
73) Isopropylbenzene	12.670	105	360370	20.502	ug/l	99
74) N-amyl acetate	12.688	43	116340m	19.435	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.912	83	112119	19.731	ug/l	99
76) 1,2,3-Trichloropropane	12.970	75	113577m	20.398	ug/l	
77) Bromobenzene	12.953	156	82378	20.483	ug/l	99
78) n-propylbenzene	13.012	91	452912	21.062	ug/l	99
79) 2-Chlorotoluene	13.100	91	273041	20.792	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	301838	20.723	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.723	75	35744	18.212	ug/l #	91
82) 4-Chlorotoluene	13.194	91	286032	21.930	ug/l	97
83) tert-Butylbenzene	13.412	119	261764	21.141	ug/l	97
84) 1,2,4-Trimethylbenzene	13.459	105	312793	21.606	ug/l	97
85) sec-Butylbenzene	13.594	105	375613	21.117	ug/l	99
86) p-Isopropyltoluene	13.706	119	306028	20.981	ug/l	97
87) 1,3-Dichlorobenzene	13.712	146	154606	19.748	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	162379	19.800	ug/l	99
89) n-Butylbenzene	14.029	91	297476	21.005	ug/l	98
90) Hexachloroethane	14.306	117	52252	19.610	ug/l	98
91) 1,2-Dichlorobenzene	14.082	146	147868	20.071	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.694	75	28137	20.408	ug/l	99
93) 1,2,4-Trichlorobenzene	15.364	180	83932	19.174	ug/l	95
94) Hexachlorobutadiene	15.470	225	28512	18.126	ug/l	97
95) Naphthalene	15.611	128	307489	20.271	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	83257	19.543	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

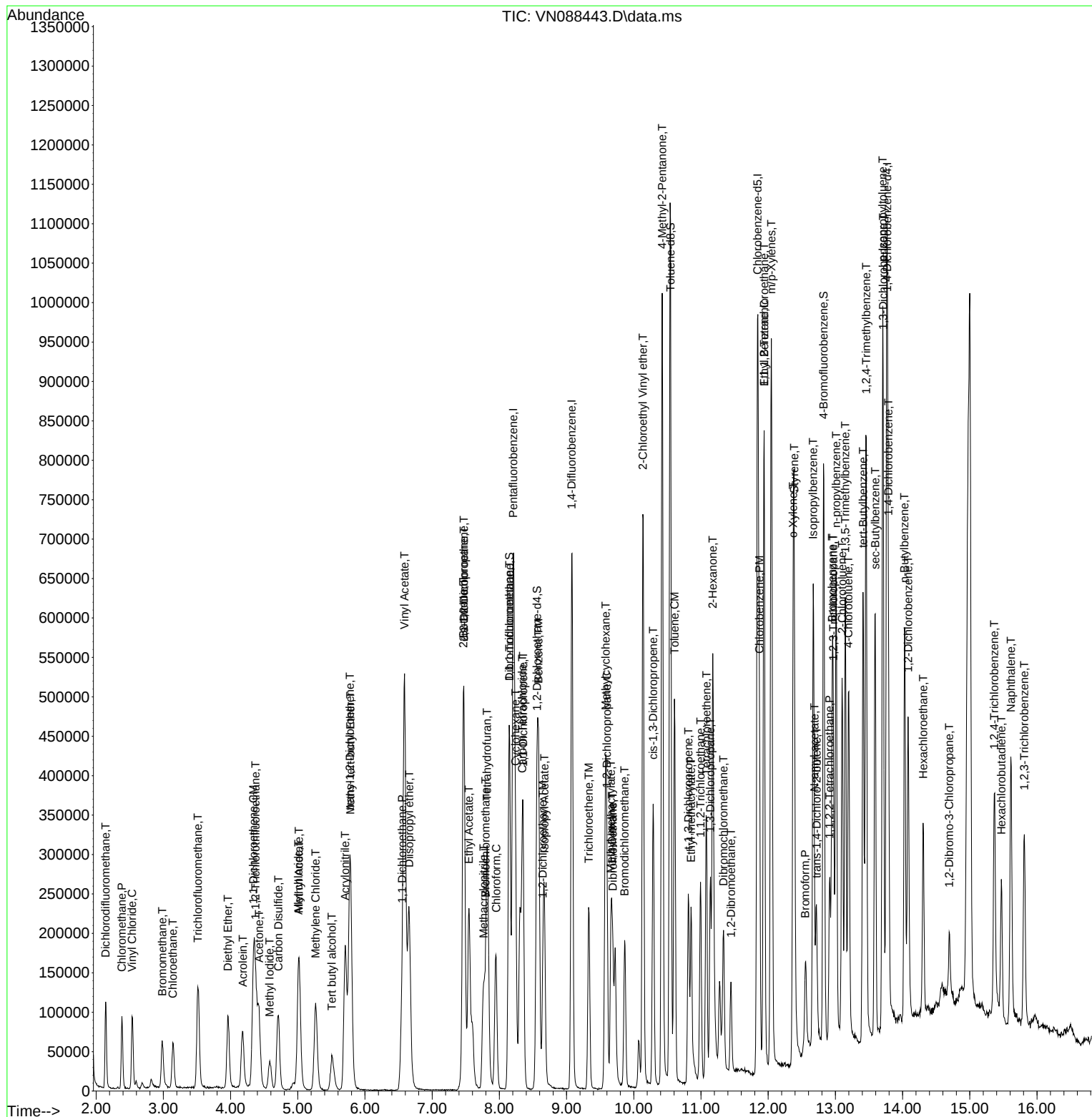
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Data File : VN088443.D
Acq On : 04 Dec 2025 14:12
Operator : JC\MD
Sample : VN1204WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1204WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 12/05/2025
Supervised By :Semsettin Yesilyurt 12/05/2025

Quant Time: Dec 05 00:14:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088432.D
 Acq On : 03 Dec 2025 16:17
 Operator : JC\MD
 Sample : VN1203WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 12/04/2025
 Supervised By : Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	250101	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	473571	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	423667	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	214103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	258504	54.868	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 109.740%			
35) Dibromofluoromethane	8.147	113	170328	51.900	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.800%			
50) Toluene-d8	10.547	98	634377	51.952	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.900%			
62) 4-Bromofluorobenzene	12.829	95	218669	52.191	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 104.380%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	81999	21.828	ug/l	98
3) Chloromethane	2.383	50	81497	20.200	ug/l	98
4) Vinyl Chloride	2.536	62	84304	20.539	ug/l	95
5) Bromomethane	2.983	94	39841	20.168	ug/l	100
6) Chloroethane	3.142	64	52131	20.524	ug/l	88
7) Trichlorofluoromethane	3.518	101	126368	21.906	ug/l	99
8) Diethyl Ether	3.959	74	46608	21.526	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.371	101	66725	21.727	ug/l	100
10) Methyl Iodide	4.583	142	51913	17.076	ug/l	98
11) Tert butyl alcohol	5.518	59	69415	92.282	ug/l	97
12) 1,1-Dichloroethene	4.342	96	64784	21.232	ug/l	93
13) Acrolein	4.183	56	88085	122.316	ug/l	99
14) Allyl chloride	5.012	41	115902	20.494	ug/l	97
15) Acrylonitrile	5.712	53	227954	105.036	ug/l	97
16) Acetone	4.418	43	244436	143.458	ug/l	96
17) Carbon Disulfide	4.706	76	200528	20.111	ug/l #	95
18) Methyl Acetate	5.024	43	118332	23.331	ug/l	99
19) Methyl tert-butyl Ether	5.789	73	236697	20.705	ug/l	98
20) Methylene Chloride	5.265	84	76028	20.855	ug/l	96
21) trans-1,2-Dichloroethene	5.777	96	68780	20.349	ug/l	95
22) Diisopropyl ether	6.653	45	266704	22.089	ug/l #	94
23) Vinyl Acetate	6.588	43	1164465	119.703	ug/l	97
24) 1,1-Dichloroethane	6.559	63	147767	21.611	ug/l	99
25) 2-Butanone	7.471	43	326935	119.354	ug/l	96
26) 2,2-Dichloropropane	7.471	77	122234	20.711	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	81731	20.806	ug/l	98
28) Bromochloromethane	7.794	49	78944	23.177	ug/l	97
29) Tetrahydrofuran	7.824	42	210835	107.309	ug/l	98
30) Chloroform	7.947	83	149314	22.224	ug/l	91
31) Cyclohexane	8.241	56	125860	20.312	ug/l	94
32) 1,1,1-Trichloroethane	8.147	97	129487	21.919	ug/l	96
36) 1,1-Dichloropropene	8.353	75	99068	19.560	ug/l	99
37) Ethyl Acetate	7.541	43	138649	20.819	ug/l	99
38) Carbon Tetrachloride	8.341	117	105371	20.898	ug/l	96
39) Methylcyclohexane	9.582	83	101432	18.723	ug/l	94
40) Benzene	8.588	78	299926	20.176	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
 Data File : VN088432.D
 Acq On : 03 Dec 2025 16:17
 Operator : JC\MD
 Sample : VN1203WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1203WBSD01

Manual Integrations
 APPROVED

Reviewed By :John Carlone 12/04/2025
 Supervised By :Semsettin Yesilyurt 12/04/2025

Quant Time: Dec 04 00:22:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.765	41	67759	20.542	ug/l	98
42) 1,2-Dichloroethane	8.647	62	126828	22.362	ug/l	99
43) Isopropyl Acetate	8.671	43	204303	20.078	ug/l	100
44) Trichloroethene	9.335	130	66882	19.041	ug/l	99
45) 1,2-Dichloropropane	9.600	63	80741	21.199	ug/l	95
46) Dibromomethane	9.688	93	58631	21.571	ug/l	98
47) Bromodichloromethane	9.871	83	117197	21.132	ug/l	93
48) Methyl methacrylate	9.665	41	95681	20.609	ug/l	97
49) 1,4-Dioxane	9.677	88	20393	345.396	ug/l #	88
51) 4-Methyl-2-Pentanone	10.424	43	656411	109.445	ug/l	98
52) Toluene	10.606	92	182595	21.272	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	114495	20.113	ug/l	98
54) cis-1,3-Dichloropropene	10.288	75	123356	20.605	ug/l	97
55) 1,1,2-Trichloroethane	10.994	97	71038	21.390	ug/l	98
56) Ethyl methacrylate	10.853	69	110151	20.998	ug/l	96
57) 1,3-Dichloropropane	11.141	76	128913	21.517	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.141	63	286552	94.749	ug/l	100
59) 2-Hexanone	11.176	43	412680	109.226	ug/l	100
60) Dibromochloromethane	11.335	129	81410	21.503	ug/l	100
61) 1,2-Dibromoethane	11.447	107	70205	20.876	ug/l	99
64) Tetrachloroethene	11.076	164	55998	16.673	ug/l	96
65) Chlorobenzene	11.870	112	191798	20.154	ug/l	96
66) 1,1,1,2-Tetrachloroethane	11.935	131	67516	21.036	ug/l	99
67) Ethyl Benzene	11.941	91	333864	20.073	ug/l	99
68) m/p-Xylenes	12.047	106	246899	40.037	ug/l	94
69) o-Xylene	12.376	106	118643	20.180	ug/l	98
70) Styrene	12.388	104	194030	20.325	ug/l	98
71) Bromoform	12.559	173	49639	21.115	ug/l #	100
73) Isopropylbenzene	12.670	105	303830	19.193	ug/l	98
74) N-amyl acetate	12.670	43	93651m	17.371	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	101816	19.895	ug/l	93
76) 1,2,3-Trichloropropane	12.970	75	86438m	17.237	ug/l	
77) Bromobenzene	12.953	156	73974	20.423	ug/l	98
78) n-propylbenzene	13.012	91	384189	19.838	ug/l	98
79) 2-Chlorotoluene	13.100	91	227899	19.270	ug/l	99
80) 1,3,5-Trimethylbenzene	13.147	105	258850	19.733	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.717	75	30488	17.248	ug/l #	96
82) 4-Chlorotoluene	13.200	91	237099	20.185	ug/l	99
83) tert-Butylbenzene	13.417	119	214026	19.193	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	260658	19.991	ug/l	98
85) sec-Butylbenzene	13.594	105	310564	19.386	ug/l	100
86) p-Isopropyltoluene	13.706	119	257654	19.614	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	140444	19.919	ug/l	98
88) 1,4-Dichlorobenzene	13.788	146	145470	19.696	ug/l	98
89) n-Butylbenzene	14.035	91	242333	19.000	ug/l	98
90) Hexachloroethane	14.306	117	48032	20.016	ug/l	99
91) 1,2-Dichlorobenzene	14.082	146	131671	19.844	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.694	75	22261	17.928	ug/l	98
93) 1,2,4-Trichlorobenzene	15.370	180	69170	17.545	ug/l	95
94) Hexachlorobutadiene	15.470	225	26725	18.864	ug/l	98
95) Naphthalene	15.611	128	243313	17.810	ug/l	100
96) 1,2,3-Trichlorobenzene	15.811	180	71458	18.625	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120325\
Data File : VN088432.D
Acq On : 03 Dec 2025 16:17
Operator : JC\MD
Sample : VN1203WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025

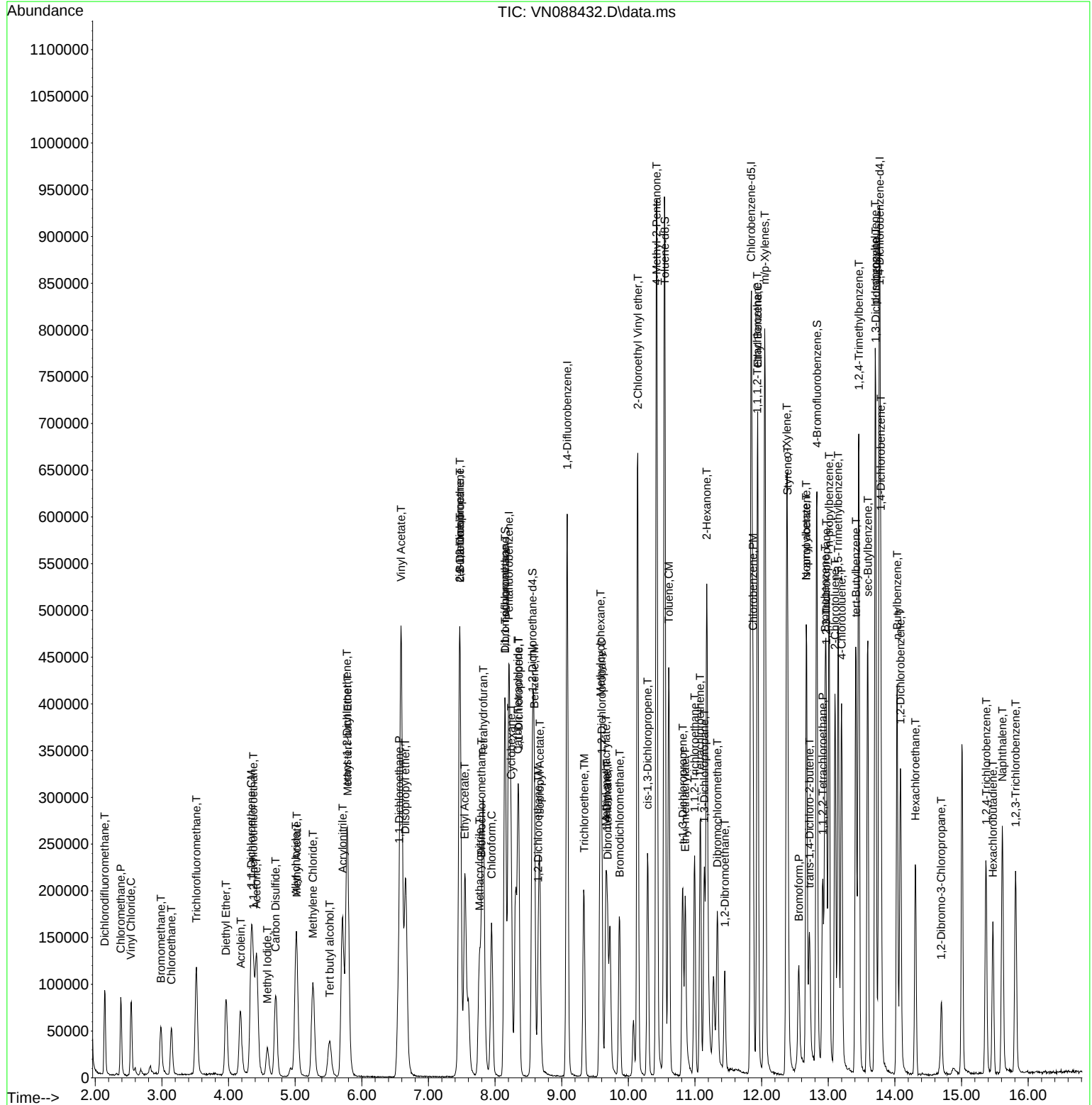
Quant Time: Dec 04 00:22:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
Quant Title : SW846 8260
QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed						

Instrument :
MSVOA_N
ClientSampleId :
VN1203WBSD01

Reviewed By :John Carlone 12/04/2025
Supervised By :Semsettin Yesilyurt 12/04/2025



Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN088344.D	1,1-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	1,4-Dichlorobenzene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	2-Hexanone	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	cis-1,2-Dichloroethene	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC001	VN088344.D	Diisopropyl ether	JOHN	11/25/2025 9:35:55 AM	MMDadoda	11/26/2025 1:51:48 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC005	VN088345.D	Vinyl Acetate	JOHN	11/25/2025 9:36:00 AM	MMDadoda	11/26/2025 1:51:51 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	N-amyl acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICC020	VN088346.D	Vinyl Acetate	JOHN	11/25/2025 9:36:04 AM	MMDadoda	11/26/2025 1:51:55 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software
VSTDICCC050	VN088347.D	Vinyl Acetate	JOHN	11/25/2025 9:36:10 AM	MMDadoda	11/26/2025 1:51:58 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN112425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC100	VN088348.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Allyl chloride	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC100	VN088348.D	Vinyl Acetate	JOHN	11/25/2025 9:36:15 AM	MMDadoda	11/26/2025 1:52:01 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Allyl chloride	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICC150	VN088349.D	Vinyl Acetate	JOHN	11/25/2025 9:36:20 AM	MMDadoda	11/26/2025 1:52:04 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	1,2,3-Trichloropropane	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	N-amyl acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software
VSTDICV050	VN088351.D	Vinyl Acetate	JOHN	11/25/2025 9:36:25 AM	MMDadoda	11/26/2025 1:52:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120325	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088416.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VSTDCCC050	VN088416.D	N-amyl acetate	JOHN	12/4/2025 8:05:00 AM	sam	12/4/2025 2:41:16 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBS01	VN088419.D	N-amyl acetate	JOHN	12/4/2025 8:05:05 AM	sam	12/4/2025 2:41:21 PM	Peak Integrated by Software
VN1203WBSD0 1	VN088432.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VN1203WBSD0 1	VN088432.D	N-amyl acetate	JOHN	12/4/2025 8:05:15 AM	sam	12/4/2025 2:41:32 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	1,2,3-Trichloropropane	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software
VSTDCCC050	VN088435.D	N-amyl acetate	JOHN	12/4/2025 8:05:20 AM	sam	12/4/2025 2:41:38 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VN120425	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088437.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VSTDCCC050	VN088437.D	N-amyl acetate	JOHN	12/5/2025 8:18:14 AM	sam	12/5/2025 2:18:25 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VN1204WBS01	VN088443.D	N-amyl acetate	JOHN	12/5/2025 8:18:23 AM	sam	12/5/2025 2:18:38 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	1,2,3-Trichloropropane	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software
VSTDCCC050	VN088461.D	N-amyl acetate	JOHN	12/5/2025 8:18:43 AM	sam	12/5/2025 2:18:57 PM	Peak Integrated by Software

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM		
Supervise By	Maresh Dadoda	Supervise On	11/26/2025 1:52:19 PM		
SubDirectory	VN112425	HP Acquire Method	MSVOA_N	HP Processing Method	82N112425W.M
STD. NAME		STD REF.#			
Tune/Reschk		VP136378			
Initial Calibration Stds		VP136444,VP136445,VP136446,VP136447,VP136448,VP136449			
CCC					
Internal Standard/PEM					
ICV/I.BLK		VP136450			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088343.D	24 Nov 2025 08:17	JC\MD	Ok
2	VSTDIC001	VN088344.D	24 Nov 2025 12:38	JC\MD	Ok,M
3	VSTDIC005	VN088345.D	24 Nov 2025 13:11	JC\MD	Ok,M
4	VSTDIC020	VN088346.D	24 Nov 2025 13:32	JC\MD	Ok,M
5	VSTDIC050	VN088347.D	24 Nov 2025 13:53	JC\MD	Ok,M
6	VSTDIC100	VN088348.D	24 Nov 2025 14:14	JC\MD	Ok,M
7	VSTDIC150	VN088349.D	24 Nov 2025 14:35	JC\MD	Ok,M
8	IBLK	VN088350.D	24 Nov 2025 14:56	JC\MD	Ok
9	VSTDICV050	VN088351.D	24 Nov 2025 15:18	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088415.D	03 Dec 2025 09:36	JC\MD	Ok
2	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	JC\MD	Ok,M
3	VN1203MBL01	VN088417.D	03 Dec 2025 10:43	JC\MD	Ok
4	VN1203WBL01	VN088418.D	03 Dec 2025 11:03	JC\MD	Ok
5	VN1203WBS01	VN088419.D	03 Dec 2025 11:38	JC\MD	Ok,M
6	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	JC\MD	Not Ok
7	IBLK	VN088421.D	03 Dec 2025 12:31	JC\MD	Ok
8	Q3756-09	VN088422.D	03 Dec 2025 12:52	JC\MD	Ok
9	Q3756-10	VN088423.D	03 Dec 2025 13:12	JC\MD	ReRun
10	Q3756-01	VN088424.D	03 Dec 2025 13:33	JC\MD	Not Ok
11	Q3756-03	VN088425.D	03 Dec 2025 13:53	JC\MD	Not Ok
12	Q3756-05	VN088426.D	03 Dec 2025 14:13	JC\MD	Not Ok
13	Q3756-07	VN088427.D	03 Dec 2025 14:34	JC\MD	Not Ok
14	PB170786TB	VN088428.D	03 Dec 2025 14:54	JC\MD	Ok
15	Q3750-07	VN088429.D	03 Dec 2025 15:15	JC\MD	ReRun
16	Q3750-08	VN088430.D	03 Dec 2025 15:35	JC\MD	ReRun
17	Q3725-02	VN088431.D	03 Dec 2025 15:56	JC\MD	Not Ok
18	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17	JC\MD	Ok,M
19	IBLK	VN088433.D	03 Dec 2025 16:37	JC\MD	Ok
20	Q3756-10RE	VN088434.D	03 Dec 2025 16:58	JC\MD	Confirms
21	VSTDCCC050	VN088435.D	03 Dec 2025 17:18	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088436.D	04 Dec 2025 11:03	JC\MD	Ok
2	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	JC\MD	Ok,M
3	VN1204MBL01	VN088438.D	04 Dec 2025 12:17	JC\MD	Ok
4	VN1204WBL01	VN088439.D	04 Dec 2025 12:38	JC\MD	Ok
5	VN1204MBS01	VN088440.D	04 Dec 2025 13:11	JC\MD	Ok,M
6	Q3768-01	VN088441.D	04 Dec 2025 13:31	JC\MD	Not Ok
7	IBLK	VN088442.D	04 Dec 2025 13:52	JC\MD	Ok
8	VN1204WBS01	VN088443.D	04 Dec 2025 14:12	JC\MD	Ok,M
9	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45	JC\MD	Ok,M
10	Q3756-03	VN088445.D	04 Dec 2025 15:06	JC\MD	Ok
11	Q3756-01	VN088446.D	04 Dec 2025 15:26	JC\MD	Ok
12	Q3756-05	VN088447.D	04 Dec 2025 15:47	JC\MD	Ok
13	Q3756-07	VN088448.D	04 Dec 2025 16:07	JC\MD	Ok
14	Q3757-12	VN088449.D	04 Dec 2025 16:28	JC\MD	Ok
15	Q3757-11	VN088450.D	04 Dec 2025 16:48	JC\MD	Ok,M
16	Q3757-01	VN088451.D	04 Dec 2025 17:09	JC\MD	Not Ok
17	Q3757-03	VN088452.D	04 Dec 2025 17:29	JC\MD	Not Ok
18	Q3757-05	VN088453.D	04 Dec 2025 17:50	JC\MD	Not Ok
19	Q3757-07	VN088454.D	04 Dec 2025 18:10	JC\MD	Not Ok
20	Q3757-09	VN088455.D	04 Dec 2025 18:31	JC\MD	Not Ok
21	Q3750-07	VN088456.D	04 Dec 2025 18:51	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

22	Q3750-08	VN088457.D	04 Dec 2025 19:11	JC\MD	Ok
23	PB170809TB	VN088458.D	04 Dec 2025 19:32	JC\MD	Ok
24	Q3775-01	VN088459.D	04 Dec 2025 19:52	JC\MD	Not Ok
25	IBLK	VN088460.D	04 Dec 2025 20:13	JC\MD	Ok
26	VSTDCCC050	VN088461.D	04 Dec 2025 20:33	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN112425

Review By	John Carlone	Review On	11/25/2025 9:36:43 AM
Supervise By	Maresh Dadoda	Supervise On	11/26/2025 1:52:19 PM
SubDirectory	VN112425	HP Acquire Method	MSVOA_N HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP136378		
Initial Calibration Stds	VP136444,VP136445,VP136446,VP136447,VP136448,VP136449		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP136450		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088343.D	24 Nov 2025 08:17		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN088344.D	24 Nov 2025 12:38		JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN088345.D	24 Nov 2025 13:11	COM.#74 Peak not detected in 1 and 5 PPB	JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN088346.D	24 Nov 2025 13:32		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN088347.D	24 Nov 2025 13:53	Method failed for Comp. #74	JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN088348.D	24 Nov 2025 14:14		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN088349.D	24 Nov 2025 14:35		JC\MD	Ok,M
8	IBLK	IBLK	VN088350.D	24 Nov 2025 14:56		JC\MD	Ok
9	VSTDICV050	ICVVN112425	VN088351.D	24 Nov 2025 15:18		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088415.D	03 Dec 2025 09:36		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088416.D	03 Dec 2025 10:09	pH#Lot#V12668	JC\MD	Ok,M
3	VN1203MBL01	VN1203MBL01	VN088417.D	03 Dec 2025 10:43		JC\MD	Ok
4	VN1203WBL01	VN1203WBL01	VN088418.D	03 Dec 2025 11:03		JC\MD	Ok
5	VN1203WBS01	VN1203WBS01	VN088419.D	03 Dec 2025 11:38		JC\MD	Ok,M
6	VN1203WBS02	VN1203WBS02	VN088420.D	03 Dec 2025 12:11	Recovery fail	JC\MD	Not Ok
7	IBLK	IBLK	VN088421.D	03 Dec 2025 12:31		JC\MD	Ok
8	Q3756-09	EB01-120225	VN088422.D	03 Dec 2025 12:52	vial A pH<2 EB	JC\MD	Ok
9	Q3756-10	TB01-120225	VN088423.D	03 Dec 2025 13:12	vial A pH<2 TB;Surrogate fail	JC\MD	ReRun
10	Q3756-01	OW-04B-26.5-120225	VN088424.D	03 Dec 2025 13:33	Surrogate fail;Need straight run	JC\MD	Not Ok
11	Q3756-03	BR-01-190-120225	VN088425.D	03 Dec 2025 13:53	Need Straight Run	JC\MD	Not Ok
12	Q3756-05	MW-04-12-120225	VN088426.D	03 Dec 2025 14:13	Need Straight Run	JC\MD	Not Ok
13	Q3756-07	MW-13B-47.5-120225	VN088427.D	03 Dec 2025 14:34	Surrogate fail;Need straight run	JC\MD	Not Ok
14	PB170786TB	PB170786TB	VN088428.D	03 Dec 2025 14:54		JC\MD	Ok
15	Q3750-07	FENCE WC-1	VN088429.D	03 Dec 2025 15:15	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
16	Q3750-08	FENCE WC-2	VN088430.D	03 Dec 2025 15:35	vial A pH#5.0 Surrogate fail	JC\MD	ReRun
17	Q3725-02	STOCKPILE-SAMPLES	VN088431.D	03 Dec 2025 15:56	Not in Login page	JC\MD	Not Ok
18	VN1203WBSD01	VN1203WBSD01	VN088432.D	03 Dec 2025 16:17		JC\MD	Ok,M

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120325

Review By	John Carlone	Review On	12/4/2025 8:07:50 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/4/2025 2:41:56 PM
SubDirectory	VN120325	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136478		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136479,VP136480		

19	IBLK	IBLK	VN088433.D	03 Dec 2025 16:37		JC\MD	Ok
20	Q3756-10RE	TB01-120225RE	VN088434.D	03 Dec 2025 16:58	vial B pH<2 TB;Surrogate fail	JC\MD	Confirms
21	VSTDCCC050	VSTDCCC050EC	VN088435.D	03 Dec 2025 17:18		JC\MD	Ok,M

M : Manual Integration

A
B
C
D
E
F
G
H
I
J

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088436.D	04 Dec 2025 11:03		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088437.D	04 Dec 2025 11:44	pH#Lot#V12668	JC\MD	Ok,M
3	VN1204MBL01	VN1204MBL01	VN088438.D	04 Dec 2025 12:17		JC\MD	Ok
4	VN1204WBL01	VN1204WBL01	VN088439.D	04 Dec 2025 12:38		JC\MD	Ok
5	VN1204MBS01	VN1204MBS01	VN088440.D	04 Dec 2025 13:11		JC\MD	Ok,M
6	Q3768-01	20071	VN088441.D	04 Dec 2025 13:31	Need Soil Run	JC\MD	Not Ok
7	IBLK	IBLK	VN088442.D	04 Dec 2025 13:52		JC\MD	Ok
8	VN1204WBS01	VN1204WBS01	VN088443.D	04 Dec 2025 14:12		JC\MD	Ok,M
9	VN1204WBSD01	VN1204WBSD01	VN088444.D	04 Dec 2025 14:45		JC\MD	Ok,M
10	Q3756-03	BR-01-190-120225	VN088445.D	04 Dec 2025 15:06	vial A pH<2	JC\MD	Ok
11	Q3756-01	OW-04B-26.5-120225	VN088446.D	04 Dec 2025 15:26	vial A pH<2	JC\MD	Ok
12	Q3756-05	MW-04-12-120225	VN088447.D	04 Dec 2025 15:47	vial A pH<2	JC\MD	Ok
13	Q3756-07	MW-13B-47.5-120225	VN088448.D	04 Dec 2025 16:07	vial A pH<2	JC\MD	Ok
14	Q3757-12	TB01-120325	VN088449.D	04 Dec 2025 16:28	vial A pH<2 TB	JC\MD	Ok
15	Q3757-11	EB01-120325	VN088450.D	04 Dec 2025 16:48	vial A pH<2 EB	JC\MD	Ok,M
16	Q3757-01	MW-14A-17.5-120325	VN088451.D	04 Dec 2025 17:09	Need Straight Run	JC\MD	Not Ok
17	Q3757-03	BR-03D-490-120325	VN088452.D	04 Dec 2025 17:29	Need Straight Run	JC\MD	Not Ok
18	Q3757-05	MW-14B-46-120325	VN088453.D	04 Dec 2025 17:50	Need Straight Run	JC\MD	Not Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN120425

Review By	John Carlone	Review On	12/5/2025 8:23:32 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:14:29 PM
SubDirectory	VN120425	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136505		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136506,VP136507		

19	Q3757-07	RMW-05B-90.5-120325	VN088454.D	04 Dec 2025 18:10	Need Straight Run	JC\MD	Not Ok
20	Q3757-09	OW-05B-72-120325	VN088455.D	04 Dec 2025 18:31	Need Straight Run	JC\MD	Not Ok
21	Q3750-07	FENCE WC-1	VN088456.D	04 Dec 2025 18:51	vial B pH#5.0	JC\MD	Ok
22	Q3750-08	FENCE WC-2	VN088457.D	04 Dec 2025 19:11	vial B pH#5.0	JC\MD	Ok
23	PB170809TB	PB170809TB	VN088458.D	04 Dec 2025 19:32		JC\MD	Ok
24	Q3775-01	NGKO	VN088459.D	04 Dec 2025 19:52	Need Straight Run	JC\MD	Not Ok
25	IBLK	IBLK	VN088460.D	04 Dec 2025 20:13		JC\MD	Ok
26	VSTDCCC050	VSTDCCC050EC	VN088461.D	04 Dec 2025 20:33		JC\MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3756	OrderDate:	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	OW-04B-26.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-03	BR-01-190-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-05	MW-04-12-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-07	MW-13B-47.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-09	EB01-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25
Q3756-10	TB01-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25
Q3756-10RE	TB01-120225RE	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25



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

Hit Summary Sheet
SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

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

Client ID:

0

Total Voc :

Total Concentration:

A
B
C
D
E
F
G
H
I
J



SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: OW-04B-26.5-120225-SIM
 Lab Sample ID: Q3756-02
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 11:17	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.52			40 - 130	104.8%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.52			70 - 130	104.2%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.42			60 - 140	83.2%	SPK: 0.5		
2037-26-5	Toluene-d8	0.44			70 - 130	88.8%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.67	*		65 - 120	134%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	4610							
540-36-3	1,4-Difluorobenzene	4730							
3855-82-1	1,4-Dichlorobenzene-d4	2430							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: OW-04B-26.5-120225-SIMI
 Lab Sample ID: Q3756-02RE
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 15:03	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.55			40 - 130	109.6%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.59			70 - 130	117.8%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.43			60 - 140	85.8%	SPK: 0.5		
2037-26-5	Toluene-d8	0.45			70 - 130	89%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.80	*		65 - 120	159.4%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	3910							
540-36-3	1,4-Difluorobenzene	3820							
3855-82-1	1,4-Dichlorobenzene-d4	2030							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-04-12-120225-SIM
 Lab Sample ID: Q3756-06
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 12:42	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.56			40 - 130	113%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.46			70 - 130	91.6%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.43			60 - 140	86.8%	SPK: 0.5		
2037-26-5	Toluene-d8	0.48			70 - 130	95.6%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.55			65 - 120	110.2%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6270							
540-36-3	1,4-Difluorobenzene	6290							
3855-82-1	1,4-Dichlorobenzene-d4	3210							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: MW-13B-47.5-120225-SIM
 Lab Sample ID: Q3756-08
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 13:03	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.62			40 - 130	123.8%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.45			70 - 130	90.2%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.42			60 - 140	84%	SPK: 0.5		
2037-26-5	Toluene-d8	0.46			70 - 130	91.4%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.54			65 - 120	107.2%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6410							
540-36-3	1,4-Difluorobenzene	6410							
3855-82-1	1,4-Dichlorobenzene-d4	3310							

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LOD = Limit of Detection

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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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: EB01-120225
 Lab Sample ID: Q3756-09
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 11:39	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.55			40 - 130	110.8%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.47			70 - 130	93%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.43			60 - 140	85.8%	SPK: 0.5		
2037-26-5	Toluene-d8	0.49			70 - 130	97%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.54			65 - 120	107.4%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	5930							
540-36-3	1,4-Difluorobenzene	5920							
3855-82-1	1,4-Dichlorobenzene-d4	3130							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: TB01-120225
 Lab Sample ID: Q3756-10
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 12:00	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.54			40 - 130	107.8%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.45			70 - 130	90%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.42			60 - 140	83.6%	SPK: 0.5		
2037-26-5	Toluene-d8	0.47			70 - 130	93.6%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.52			65 - 120	103.8%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6200							
540-36-3	1,4-Difluorobenzene	6250							
3855-82-1	1,4-Dichlorobenzene-d4	3150							

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LOD = Limit of Detection

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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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VHBLK001
 Lab Sample ID: Q3756-12
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/02/25
 Date Received: 12/02/25
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/05/25 16:29	VV120525
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.59			40 - 130	118.4%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.48			70 - 130	96.4%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.43			60 - 140	85.6%	SPK: 0.5		
2037-26-5	Toluene-d8	0.47			70 - 130	93.4%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.53			65 - 120	106%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	5740							
540-36-3	1,4-Difluorobenzene	5670							
3855-82-1	1,4-Dichlorobenzene-d4	2940							

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LOD = Limit of Detection

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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

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q3756**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SWSFAM_VOCSIM**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3756-02	OW-04B-26.5-120225-SIM	Vinyl chloride-d3	0.5	0.52	105		40	130
		1,2-Dichloroethane-d4	0.5	0.52	104		70	130
		1,2-Dichloropropane-d6	0.5	0.42	83		60	140
		Toluene-d8	0.5	0.44	89		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.67	134	*	65	120
Q3756-02RE	OW-04B-26.5-120225-SIMRE	Vinyl chloride-d3	0.5	0.55	110		40	130
		1,2-Dichloroethane-d4	0.5	0.59	118		70	130
		1,2-Dichloropropane-d6	0.5	0.43	86		60	140
		Toluene-d8	0.5	0.45	89		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.80	159	*	65	120
Q3756-06	MW-04-12-120225-SIM	Vinyl chloride-d3	0.5	0.56	113		40	130
		1,2-Dichloroethane-d4	0.5	0.46	92		70	130
		1,2-Dichloropropane-d6	0.5	0.43	87		60	140
		Toluene-d8	0.5	0.48	96		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.55	110		65	120
Q3756-08	MW-13B-47.5-120225-SIM	Vinyl chloride-d3	0.5	0.62	124		40	130
		1,2-Dichloroethane-d4	0.5	0.45	90		70	130
		1,2-Dichloropropane-d6	0.5	0.42	84		60	140
		Toluene-d8	0.5	0.46	91		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.54	107		65	120
Q3756-09	EB01-120225	Vinyl chloride-d3	0.5	0.55	111		40	130
		1,2-Dichloroethane-d4	0.5	0.47	93		70	130
		1,2-Dichloropropane-d6	0.5	0.43	86		60	140
		Toluene-d8	0.5	0.49	97		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.54	107		65	120
Q3756-10	TB01-120225	Vinyl chloride-d3	0.5	0.54	108		40	130
		1,2-Dichloroethane-d4	0.5	0.45	90		70	130
		1,2-Dichloropropane-d6	0.5	0.42	84		60	140
		Toluene-d8	0.5	0.47	94		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.52	104		65	120
Q3756-12	VHBLK001	Vinyl chloride-d3	0.5	0.59	118		40	130
		1,2-Dichloroethane-d4	0.5	0.48	96		70	130
		1,2-Dichloropropane-d6	0.5	0.43	86		60	140
		Toluene-d8	0.5	0.47	93		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.53	106		65	120
VV1204WBL01	VBLK235	Vinyl chloride-d3	0.5	0.50	101		40	130
		1,2-Dichloroethane-d4	0.5	0.42	83		70	130
		1,2-Dichloropropane-d6	0.5	0.40	79		60	140
		Toluene-d8	0.5	0.45	91		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.50	100		65	120
VV1205WBL01	VBLK236	Vinyl chloride-d3	0.5	0.57	114		40	130
		1,2-Dichloroethane-d4	0.5	0.46	91		70	130
		1,2-Dichloropropane-d6	0.5	0.43	85		60	140
		Toluene-d8	0.5	0.48	95		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.54	108		65	120

VOLATILE METHOD BLANK SUMMARY

Client ID

VBLK235

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VV039459.D

Lab Sample ID: VV1204WBL01

Date Analyzed: 12/04/2025

Time Analyzed: 10:15

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
OW-04B-26.5-120225-SIM	Q3756-02	VV039460.D	12/04/2025
EB01-120225	Q3756-09	VV039461.D	12/04/2025
TB01-120225	Q3756-10	VV039462.D	12/04/2025
MW-04-12-120225-SIM	Q3756-06	VV039464.D	12/04/2025
MW-13B-47.5-120225-SIM	Q3756-08	VV039465.D	12/04/2025
OW-04B-26.5-120225-SIMRE	Q3756-02RE	VV039468.D	12/04/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VBLK236

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VV039474.D

Lab Sample ID: VV1205WBL01

Date Analyzed: 12/05/2025

Time Analyzed: 12:30

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_V

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VHBLK001	Q3756-12	VV039483.D	12/05/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VV039444.D

BFB Injection Date: 12/03/2025

Instrument ID: MSVOA_V

BFB Injection Time: 09:23

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.4
75	30.0 - 60.0% of mass 95	48.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	1.7 (1.8) 1
174	50.0 - 100.0% of mass 95	94.2
175	5.0 - 9.0% of mass 174	6.9 (7.3) 1
176	95.0 - 101.0% of mass 174	91.7 (97.4) 1
177	5.0 - 9.0% of mass 176	6 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD0.02269	VSTD0.0269	VV039445.D	12/03/2025	09:55
VSTD0.05270	VSTD0.0570	VV039446.D	12/03/2025	10:32
VSTD0.1271	VSTD0.171	VV039447.D	12/03/2025	10:58
VSTD0.5272	VSTD0.572	VV039448.D	12/03/2025	11:25
VSTD001273	VSTD00173	VV039449.D	12/03/2025	11:52
VSTD002274	VSTD00274	VV039450.D	12/03/2025	12:18

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3756

Lab File ID: VV039457.D

BFB Injection Date: 12/04/2025

Instrument ID: MSVOA_V

BFB Injection Time: 09:08

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.6
75	30.0 - 60.0% of mass 95	50.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.5 (1.7) 1
174	50.0 - 100.0% of mass 95	92.4
175	5.0 - 9.0% of mass 174	6.9 (7.5) 1
176	95.0 - 101.0% of mass 174	89.7 (97.1) 1
177	5.0 - 9.0% of mass 176	5.8 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD0.5333	VSTDCCC0.5	VV039458.D	12/04/2025	09:42
VBLK235	VV1204WBL01	VV039459.D	12/04/2025	10:15
OW-04B-26.5-120225-SIM	Q3756-02	VV039460.D	12/04/2025	11:17
EB01-120225	Q3756-09	VV039461.D	12/04/2025	11:39
TB01-120225	Q3756-10	VV039462.D	12/04/2025	12:00
MW-04-12-120225-SIM	Q3756-06	VV039464.D	12/04/2025	12:42
MW-13B-47.5-120225-SIM	Q3756-08	VV039465.D	12/04/2025	13:03
OW-04B-26.5-120225-SIMRE	Q3756-02RE	VV039468.D	12/04/2025	15:03
VSTD0.5334	VSTDCCC0.5EC	VV039471.D	12/04/2025	16:56

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VV039472.D
Instrument ID: MSVOA_V
GC Column: DB-624UI ID: 0.18 (mm)

Contract: JACO05
SDG NO.: Q3756
BFB Injection Date: 12/05/2025
BFB Injection Time: 10:46
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	50.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1.6 (1.7) 1
174	50.0 - 100.0% of mass 95	95.4
175	5.0 - 9.0% of mass 174	6.8 (7.1) 1
176	95.0 - 101.0% of mass 174	92.4 (96.9) 1
177	5.0 - 9.0% of mass 176	6.1 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTD0.5335	VSTDCCC0.5	VV039473.D	12/05/2025	11:47
VBLK236	VV1205WBL01	VV039474.D	12/05/2025	12:30
VHBLK001	Q3756-12	VV039483.D	12/05/2025	16:29
VSTD0.5336	VSTDCCC0.5EC	VV039484.D	12/05/2025	16:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
Lab Code: ACE SDG NO.: Q3756
Lab File ID: VV039458.D Date Analyzed: 12/04/2025
Instrument ID: MSVOA_V Time Analyzed: 09:42
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	7270	5.57	7273	8.79	4097	11.18
UPPER LIMIT	14540	5.736	14546	8.955	8194	11.345
LOWER LIMIT	3635	5.396	3636.5	8.615	2048.5	11.005
EPA SAMPLE NO.						
OW-04B-26.5-120225-SIM	4732	5.57	4614	8.80	2431	11.20
OW-04B-26.5-120225-SIMRE	3823	5.57	3906	8.80	2028 *	11.20
MW-04-12-120225-SIM	6286	5.57	6269	8.80	3210	11.20
MW-13B-47.5-120225-SIM	6414	5.57	6408	8.80	3306	11.20
EB01-120225	5924	5.57	5926	8.80	3125	11.20
TB01-120225	6252	5.57	6195	8.80	3146	11.20
VBLK234	7074	5.57	6633	8.79	3409	11.20

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG NO.: Q3756
 Lab File ID: VV039473.D Date Analyzed: 12/05/2025
 Instrument ID: MSVOA_V Time Analyzed: 11:47
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 (DFB) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DCB) AREA #	RT #
12 HOUR STD	6700	5.57	6813	8.79	3959	11.18
UPPER LIMIT	13400	5.736	13626	8.955	7918	11.345
LOWER LIMIT	3350	5.396	3406.5	8.615	1979.5	11.005
EPA SAMPLE NO.						
VHBLK001	5671	5.57	5736	8.80	2936	11.20
VBLK236	5971	5.57	5907	8.80	3034	11.20

IS1 (DFB) = 1,4-Difluorobenzene

IS2 (CBZ) = Chlorobenzene-d5

IS3 (DCB) = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VBLK235
 Lab Sample ID: VV1204WBL01
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/04/25 10:15	VV120425
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.50			40 - 130	100.6%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.42			70 - 130	83.4%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.40			60 - 140	79%	SPK: 0.5		
2037-26-5	Toluene-d8	0.45			70 - 130	90.8%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.50			65 - 120	99.6%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6630							
540-36-3	1,4-Difluorobenzene	7070							
3855-82-1	1,4-Dichlorobenzene-d4	3410							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: VBLK236
 Lab Sample ID: VV1205WBL01
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected:
 Date Received:
 SDG No.: Q3756
 Matrix: Water
 % Solid: 0
 Test: VOC-SIM

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	BatchID
TARGETS									
75-01-4	Vinyl chloride	0.020	U	1	0.020	0.020	ug/L	12/05/25 12:30	VV120525
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.57			40 - 130	114%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.46			70 - 130	91.2%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.43			60 - 140	85%	SPK: 0.5		
2037-26-5	Toluene-d8	0.48			70 - 130	95.2%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.54			65 - 120	108.2%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	5910							
540-36-3	1,4-Difluorobenzene	5970							
3855-82-1	1,4-Dichlorobenzene-d4	3030							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3756</u>
Instrument ID: <u>MSVOA_V</u>	Calibration Date(s): <u>12/03/2025</u> <u>12/03/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:55</u> <u>12:18</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

LAB FILE ID:		RRFAL1 = VV039445.D		RRFAL2 = VV039446.D		RRFAL3 = VV039447.D			
		RRFAL4 = VV039448.D		RRFAL5 = VV039449.D		RRFAL6 = VV039450.D			
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD	
Vinyl chloride	1.464	0.963	1.023	1.100	0.991	0.950	1.082	18	
Vinyl Chloride-d3		0.473	0.499	0.533	0.491	0.458	0.491	5.8	
1,2-Dichloroethane-d4		0.383	0.341	0.334	0.318	0.288	0.333	10.3	
1,2-Dichloropropane-d6		0.397	0.402	0.463	0.425	0.422	0.422	6.2	
Toluene-d8		0.674	0.616	0.726	0.738	0.805	0.712	10	
1,1,2,2-Tetrachloroethane-d2		0.215	0.249	0.262	0.243	0.220	0.238	8.4	

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/04/2025</u> <u>09:42</u>
Lab File ID:	<u>VV039458.D</u>	Init. Calib. Date(s):	<u>12/03/2025</u> <u>12/03/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:55</u> <u>12:18</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	1.082	1.034	0.01	-4.4	30
Vinyl Chloride-d3	0.491	0.492	0.01	0.3	30
1,2-Dichloroethane-d4	0.333	0.305	0.01	-8.3	25
1,2-Dichloropropane-d6	0.422	0.434	0.1	2.9	20
Toluene-d8	0.712	0.678	0.2	-4.8	20
1,1,2,2-Tetrachloroethane-d2	0.238	0.241	0.01	1.4	25

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/04/2025 16:56</u>
Lab File ID:	<u>VV039471.D</u>	Init. Calib. Date(s):	<u>12/03/2025 12/03/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:55 12:18</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	1.082	1.110	0.01	2.6	50
Vinyl Chloride-d3	0.491	0.573	0.01	16.7	50
1,2-Dichloroethane-d4	0.333	0.337	0.01	1.2	50
1,2-Dichloropropane-d6	0.422	0.461	0.1	9.4	50
Toluene-d8	0.712	0.729	0.2	2.4	50
1,1,2,2-Tetrachloroethane-d2	0.238	0.269	0.01	13.1	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/05/2025 11:47</u>
Lab File ID:	<u>VV039473.D</u>	Init. Calib. Date(s):	<u>12/03/2025 12/03/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:55 12:18</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	1.082	1.040	0.01	-3.9	30
Vinyl Chloride-d3	0.491	0.450	0.01	-8.2	30
1,2-Dichloroethane-d4	0.333	0.286	0.01	-14.1	25
1,2-Dichloropropane-d6	0.422	0.406	0.1	-3.8	20
Toluene-d8	0.712	0.606	0.2	-14.8	20
1,1,2,2-Tetrachloroethane-d2	0.238	0.225	0.01	-5.2	25

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3756</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/05/2025</u> <u>16:50</u>
Lab File ID:	<u>VV039484.D</u>	Init. Calib. Date(s):	<u>12/03/2025</u> <u>12/03/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:55</u> <u>12:18</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
Vinyl chloride	1.082	1.103	0.01	2	50
Vinyl Chloride-d3	0.491	0.570	0.01	16.2	50
1,2-Dichloroethane-d4	0.333	0.332	0.01	-0.4	50
1,2-Dichloropropane-d6	0.422	0.431	0.1	2.2	50
Toluene-d8	0.712	0.675	0.2	-5.1	50
1,1,2,2-Tetrachloroethane-d2	0.238	0.249	0.01	4.8	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.



SAMPLE RAW DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039460.D
Acq On : 04 Dec 2025 11:17
Operator : SY/MD
Sample : Q3756-02
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIM

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:08:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)

Internal Standards					
1) 1,4-Difluorobenzene	5.566	114	4732	0.500 ug/L	0.00
5) Chlorobenzene-d5	8.800	117	4614	0.500 ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.198	152	2431	0.500 ug/L	0.02

System Monitoring Compounds					
2) Vinyl Chloride-d3	1.295	65	2493	0.524 ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	= 104.000%
4) 1,2-Dichloroethane-d4	4.970	65	1641	0.521 ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	= 104.000%
7) 1,2-Dichloropropane-d6	5.996	67	1619	0.416 ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	= 84.000%
8) Toluene-d8	7.254	98	2917	0.444 ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	= 88.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1470	0.670 ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	= 134.000%#

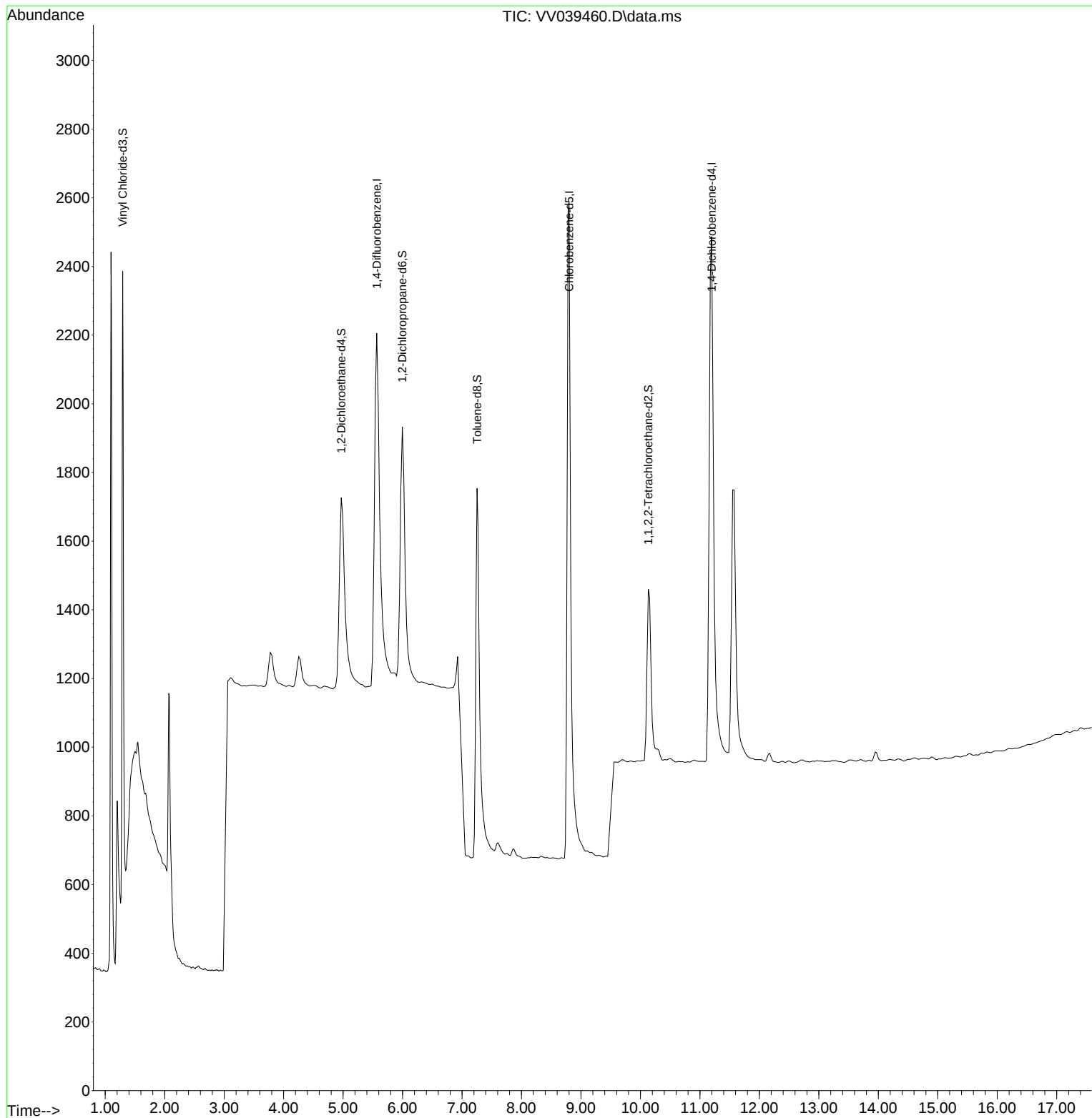
Target Compounds	Qvalue

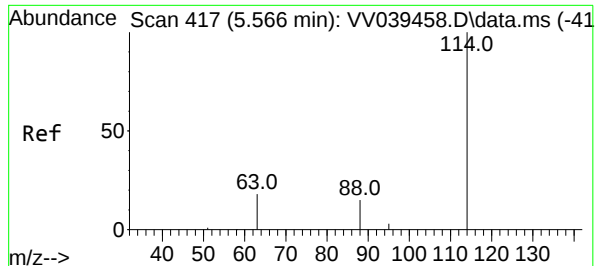
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039460.D
Acq On : 04 Dec 2025 11:17
Operator : SY/MD
Sample : Q3756-02
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIM

Quant Time: Dec 05 00:08:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

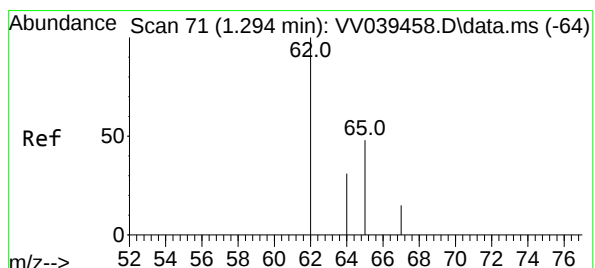
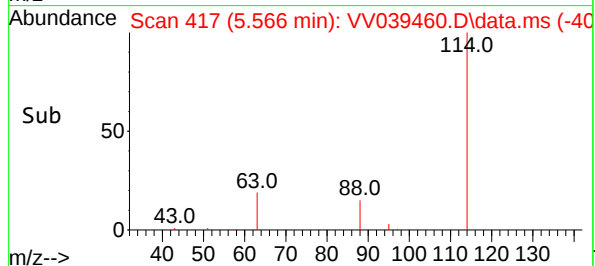
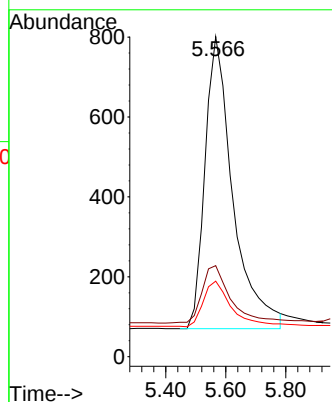
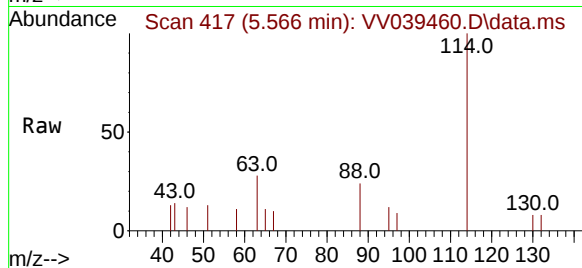




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

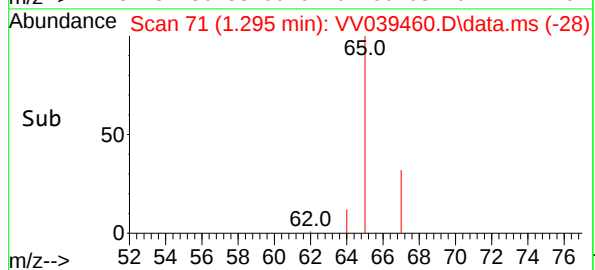
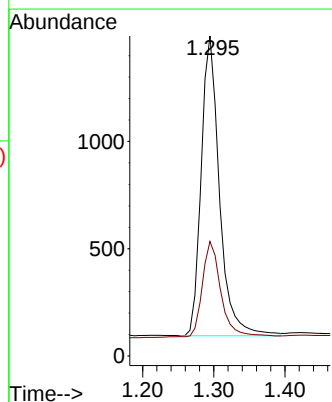
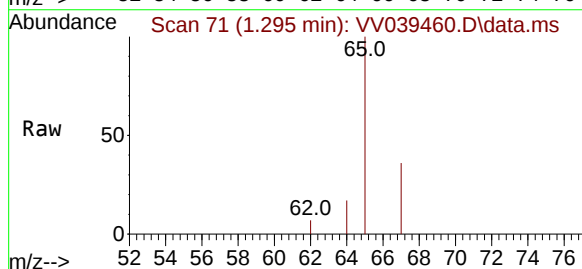
Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIM

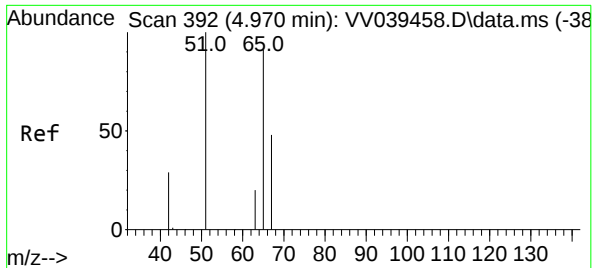
Tgt Ion:	114	Resp:	4732
Ion	Ratio	Lower	Upper
114	100		
63	20.1	15.0	22.4
88	15.1	12.0	18.0



#2
Vinyl Chloride-d3
Concen: 0.524 ug/L
RT: 1.295 min Scan# 71
Delta R.T. 0.001 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

Tgt Ion:	65	Resp:	2493
Ion	Ratio	Lower	Upper
65	100		
67	33.9	22.3	41.5

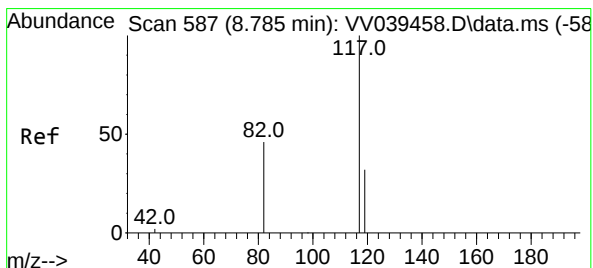
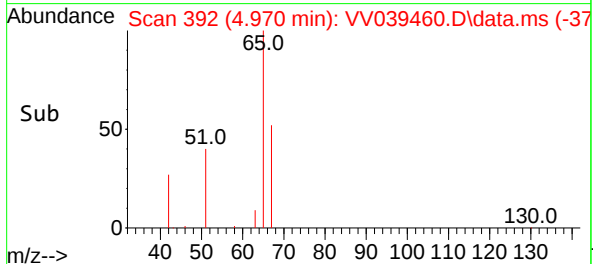
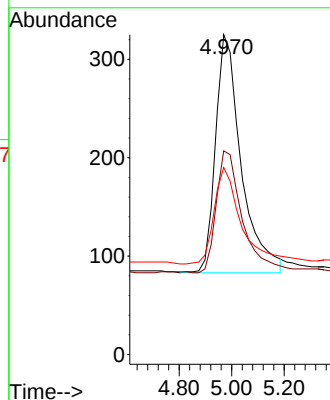
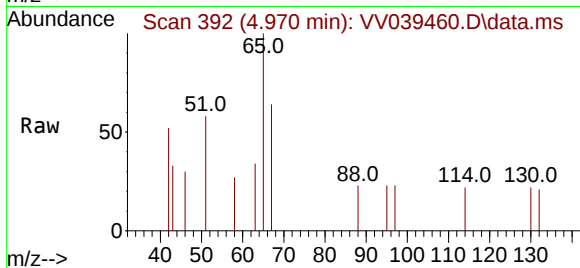




#4
1,2-Dichloroethane-d4
Concen: 0.521 ug/L
RT: 4.970 min Scan# 392
Delta R.T. 0.001 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

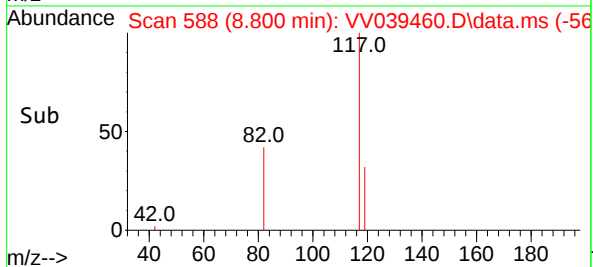
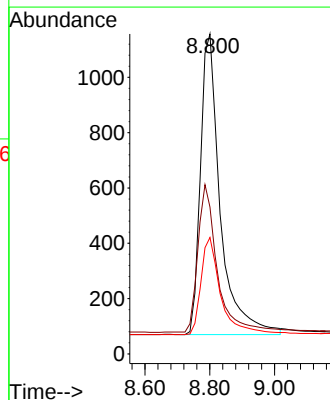
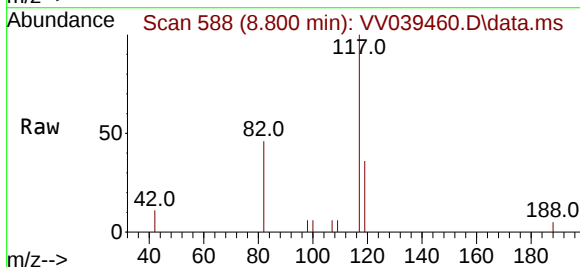
Instrument : MSVOA_V
ClientSampleId : OW-04B-26.5-120225-SIM

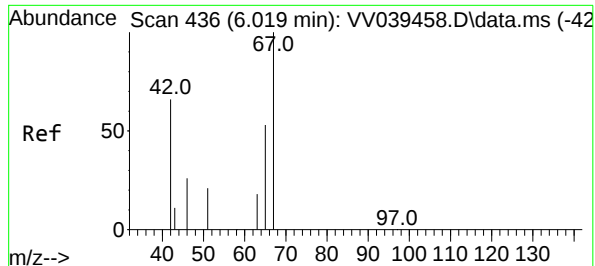
Tgt Ion: 65 Resp: 1641
Ion Ratio Lower Upper
65 100
67 51.7 32.5 60.3
51 41.9 121.4 225.6#



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.016 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

Tgt Ion: 117 Resp: 4614
Ion Ratio Lower Upper
117 100
82 48.3 39.4 59.2
119 32.3 26.2 39.2

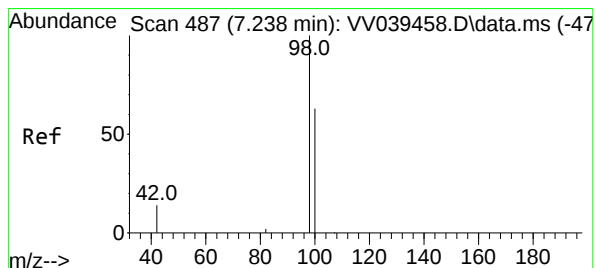
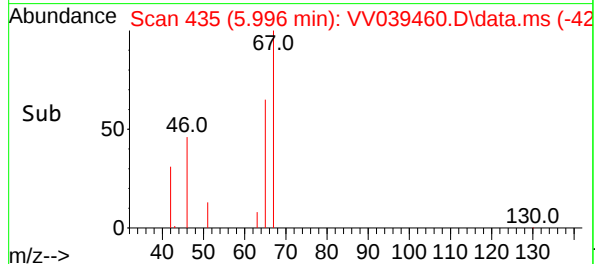
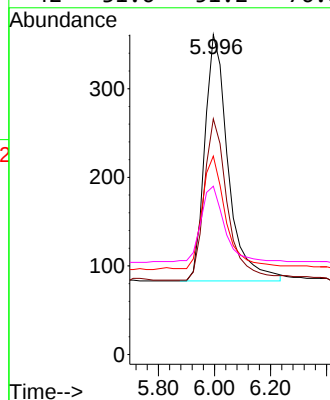
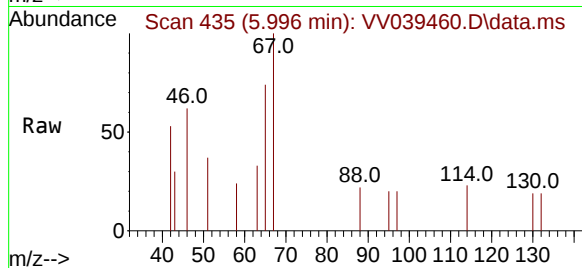




#7
1,2-Dichloropropane-d6
Concen: 0.416 ug/L
RT: 5.996 min Scan# 41
Delta R.T. -0.023 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

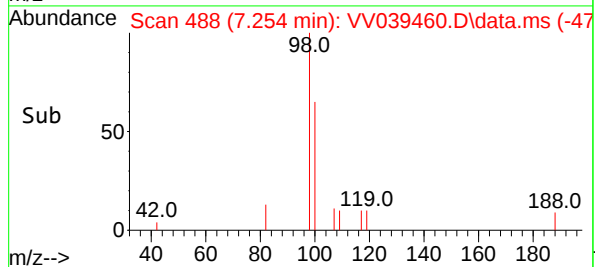
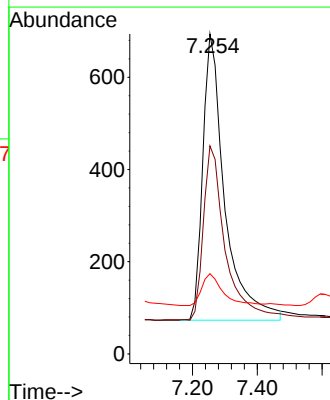
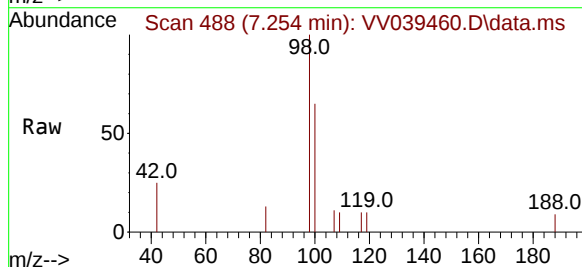
Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIM

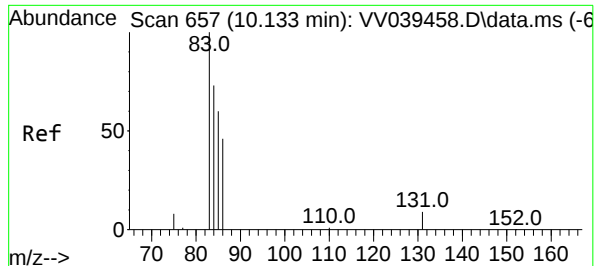
Tgt Ion:	67	Resp:	1619
Ion	Ratio	Lower	Upper
67	100		
65	64.8	37.9	56.9#
46	46.0	27.4	41.0#
42	31.6	51.2	76.8#



#8
Toluene-d8
Concen: 0.444 ug/L
RT: 7.254 min Scan# 488
Delta R.T. 0.016 min
Lab File: VV039460.D
Acq: 04 Dec 2025 11:17

Tgt Ion:	98	Resp:	2917
Ion	Ratio	Lower	Upper
98	100		
100	61.2	44.5	82.7
42	10.6	10.1	18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.670 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039460.D

Acq: 04 Dec 2025 11:17

Instrument :

MSVOA_V

ClientSampleId :

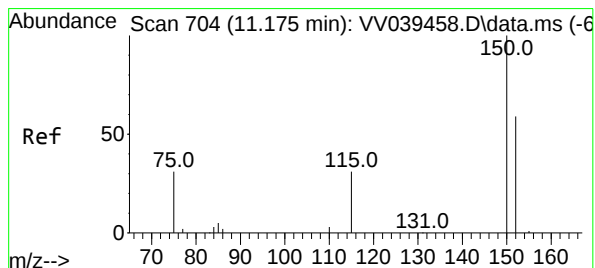
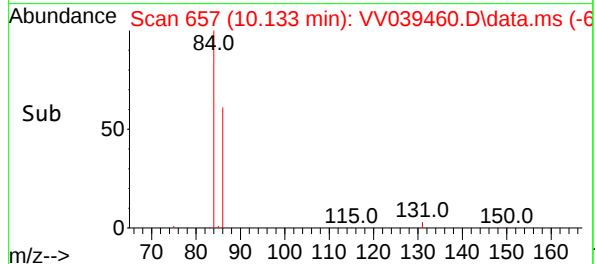
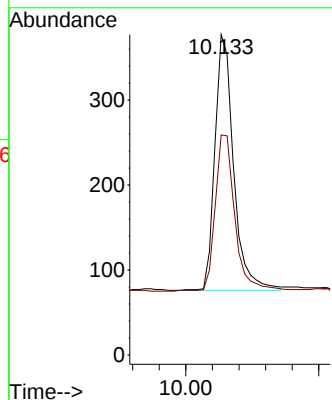
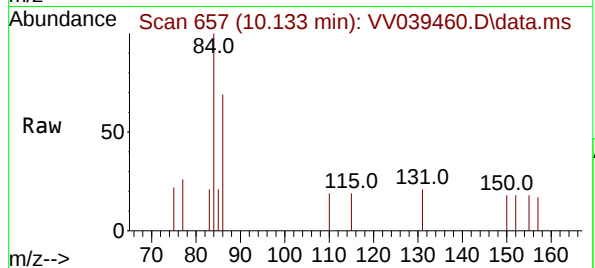
OW-04B-26.5-120225-SIM

Tgt Ion: 84 Resp: 1470

Ion Ratio Lower Upper

84 100

86 64.4 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.198 min Scan# 705

Delta R.T. 0.023 min

Lab File: VV039460.D

Acq: 04 Dec 2025 11:17

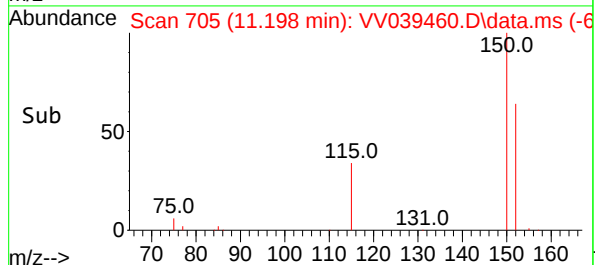
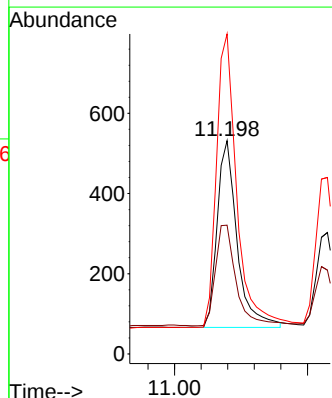
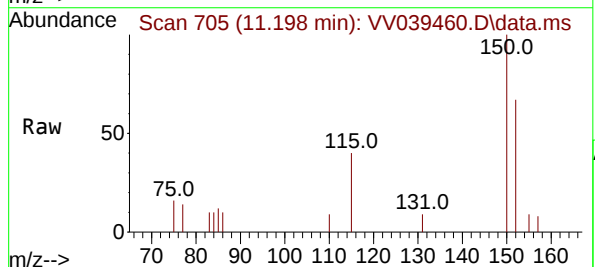
Tgt Ion:152 Resp: 2431

Ion Ratio Lower Upper

152 100

115 55.6 0.0 101.6

150 158.9 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
 Data File : VV039468.D
 Acq On : 04 Dec 2025 15:03
 Operator : SY/MD
 Sample : Q3756-02RE
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 OW-04B-26.5-120225-SIMRE

Manual Integrations APPROVED

Reviewed By : John Carlone 12/10/2025
 Supervised By : Mahesh Dadoda 12/10/2025

Quant Time: Dec 05 00:10:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	3823	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	3906	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	2028	0.500	ug/L	0.02
System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	2107m	0.548	ug/L	0.00
Spiked Amount 0.500	Range 40 - 130		Recovery =	110.000%		
4) 1,2-Dichloroethane-d4	4.969	65	1499	0.589	ug/L	0.00
Spiked Amount 0.500	Range 70 - 130		Recovery =	118.000%		
7) 1,2-Dichloropropane-d6	5.995	67	1414	0.429	ug/L	-0.02
Spiked Amount 0.500	Range 60 - 140		Recovery =	86.000%		
8) Toluene-d8	7.253	98	2475	0.445	ug/L	0.02
Spiked Amount 0.500	Range 70 - 130		Recovery =	90.000%		
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1480	0.797	ug/L	0.00
Spiked Amount 0.500	Range 65 - 120		Recovery =	160.000%#		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

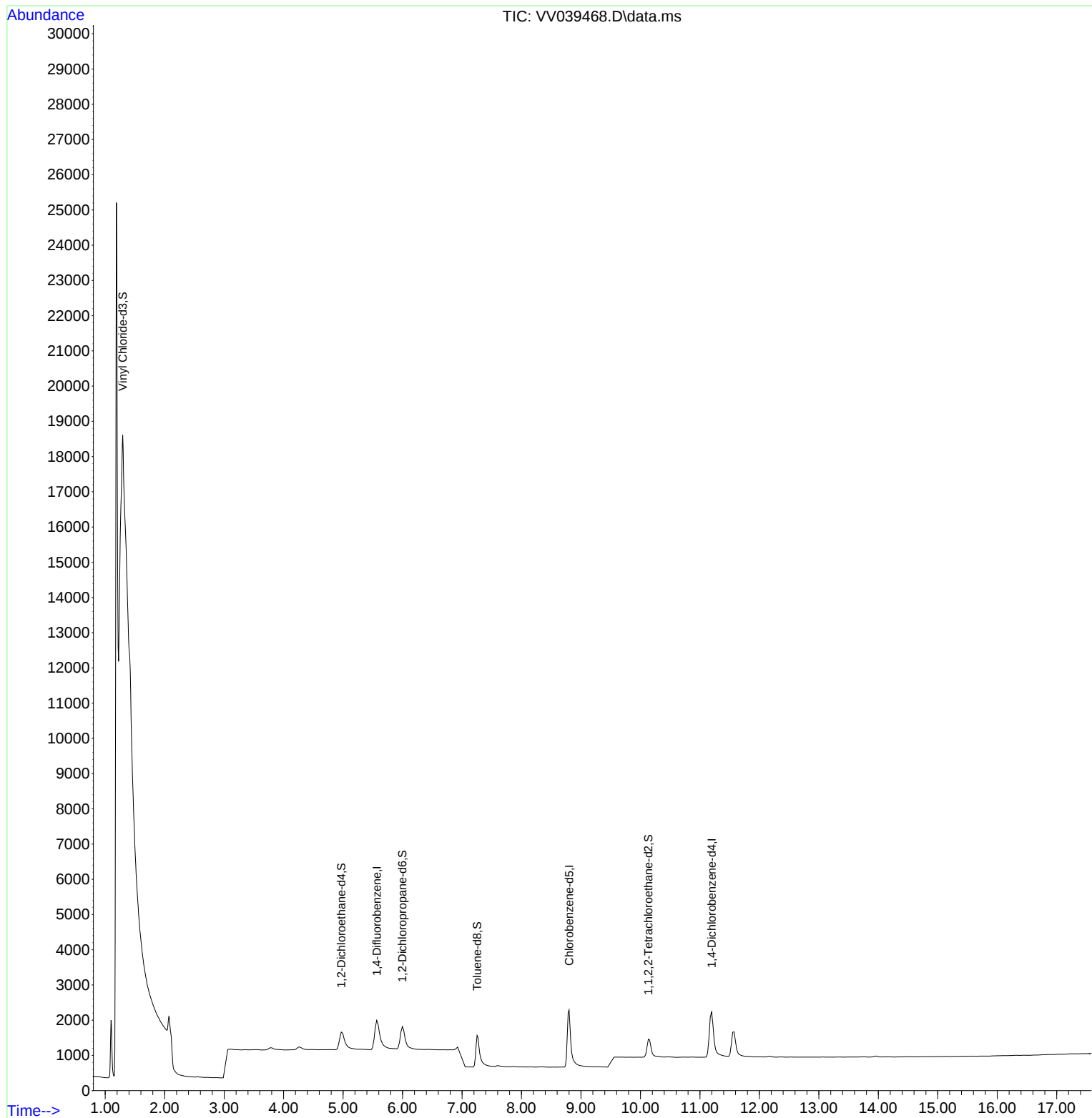
Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039468.D
Acq On : 04 Dec 2025 15:03
Operator : SY/MD
Sample : Q3756-02RE
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIMRE

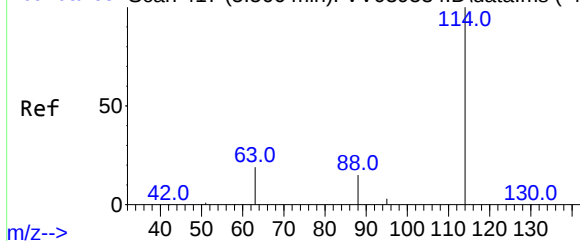
Quant Time: Dec 05 00:10:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/10/2025
Supervised By : Mahesh Dadoda 12/10/2025



Abundance Scan 417 (5.566 min): VV039534.D\data.ms (-41



#1

1,4-Difluorobenzene

Concen: 0.500 ug/L

RT: 5.566 min Scan# 41

Delta R.T. -0.000 min

Lab File: VV039468.D

Acq: 04 Dec 2025 15:03

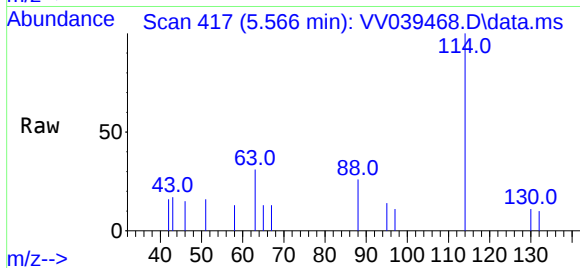
Instrument :

MSVOA_V

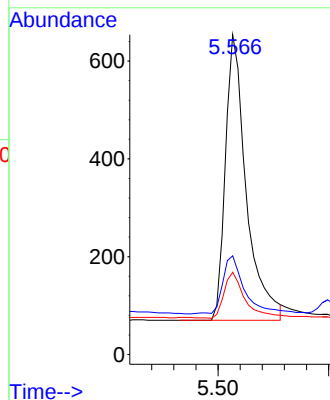
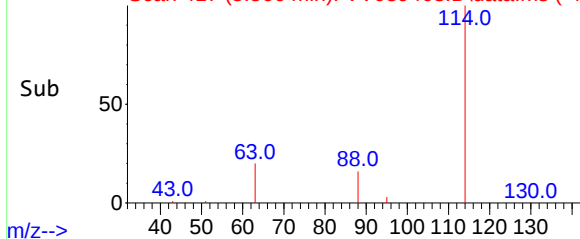
ClientSampleId :

OW-04B-26.5-120225-SIMRE

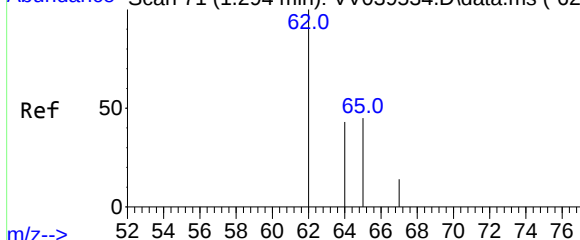
Tgt Ion:	114	Resp:	382
Ion	Ratio	Lower	Upper
114	100		
63	20.8	15.0	22.4
88	15.5	12.0	18.0

Manual Integrations
APPROVEDReviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025

Abundance Scan 417 (5.566 min): VV039468.D\data.ms (-40



Abundance Scan 71 (1.294 min): VV039534.D\data.ms (-62)



#2

Vinyl Chloride-d3

Concen: 0.548 ug/L m

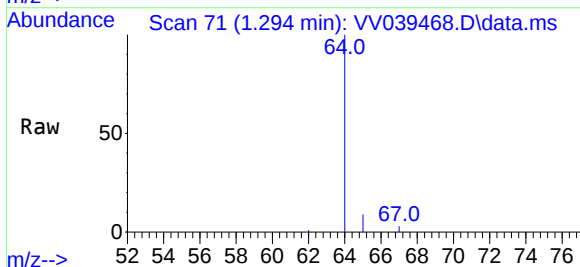
RT: 1.294 min Scan# 71

Delta R.T. 0.000 min

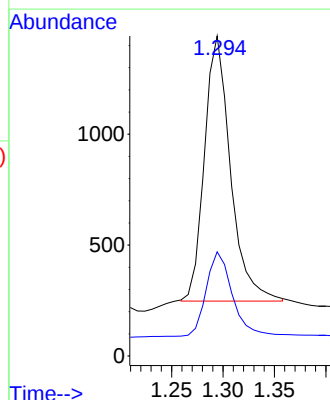
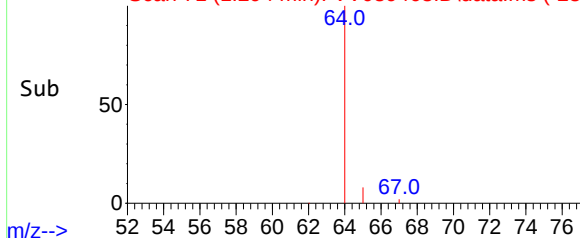
Lab File: VV039468.D

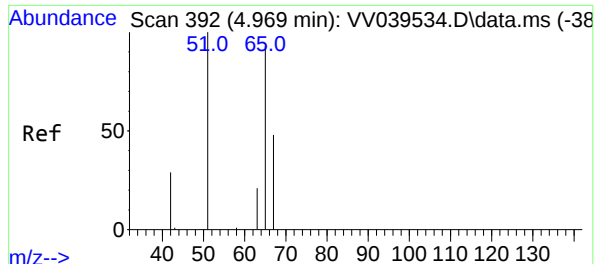
Acq: 04 Dec 2025 15:03

Tgt Ion:	65	Resp:	2107
Ion	Ratio	Lower	Upper
65	100		
67	34.5	22.3	41.5



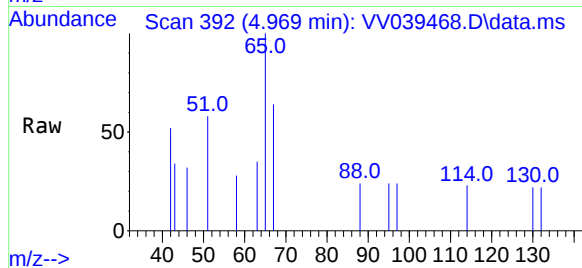
Abundance Scan 71 (1.294 min): VV039468.D\data.ms (-28)





#4
1,2-Dichloroethane-d4
Concen: 0.589 ug/L
RT: 4.969 min Scan# 392
Delta R.T. 0.000 min
Lab File: VV039468.D
Acq: 04 Dec 2025 15:03

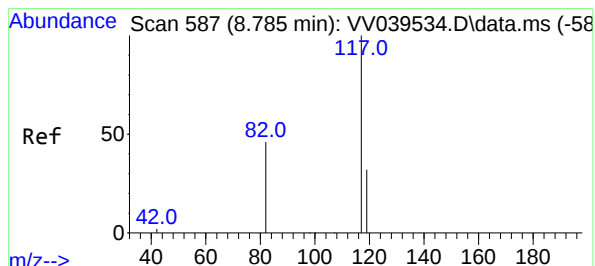
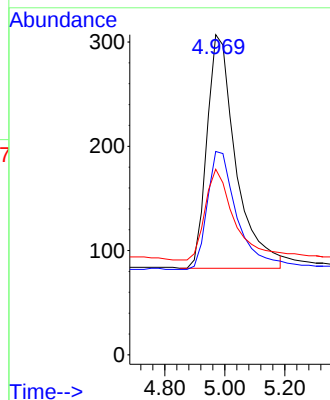
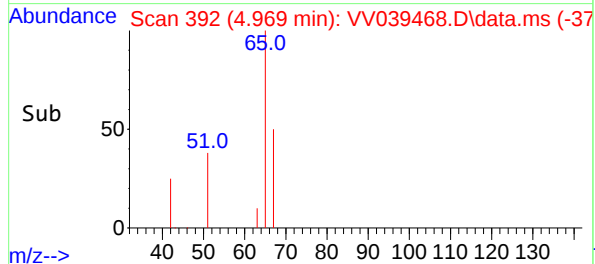
Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIMRE



Tgt Ion: 65 Resp: 1499
Ion Ratio Lower Upper
65 100
67 52.0 32.5 60.3
51 39.6 121.4 225.6

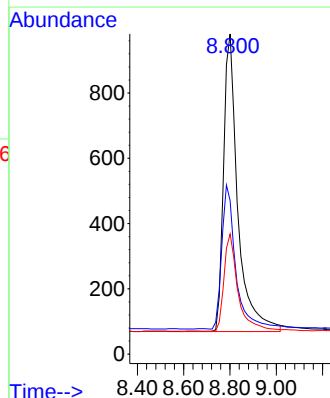
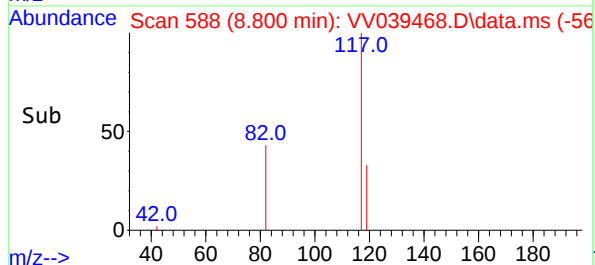
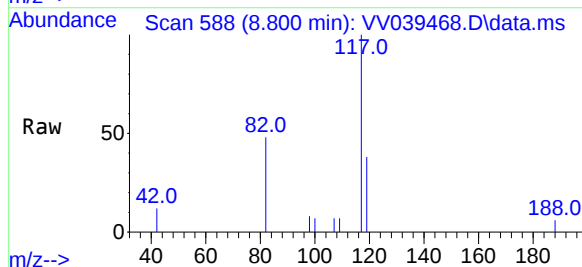
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025

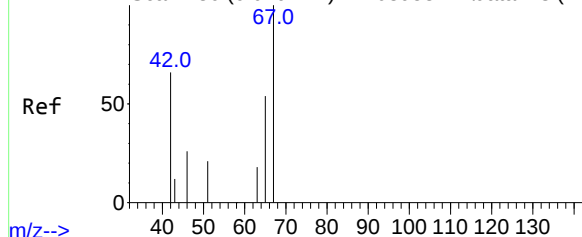


#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039468.D
Acq: 04 Dec 2025 15:03

Tgt Ion:117 Resp: 3906
Ion Ratio Lower Upper
117 100
82 47.6 39.4 59.2
119 32.4 26.2 39.2



Abundance Scan 436 (6.019 min): VV039534.D\data.ms (-43



#7

1,2-Dichloropropane-d6

Concen: 0.429 ug/L

RT: 5.995 min Scan# 41

Delta R.T. -0.024 min

Lab File: VV039468.D

Acq: 04 Dec 2025 15:03

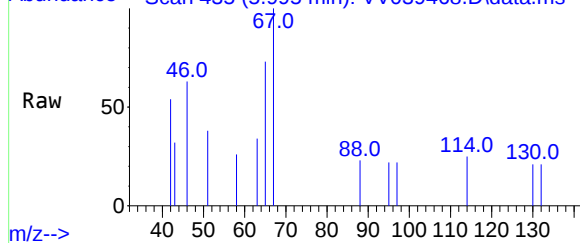
Instrument :

MSVOA_V

ClientSampleId :

OW-04B-26.5-120225-SIMRE

Abundance Scan 435 (5.995 min): VV039468.D\data.ms



Tgt Ion: 67 Resp: 1414

Ion Ratio Lower Upper

67 100

65 65.2 37.9 56.9

46 45.9 27.4 41.0

42 31.1 51.2 76.8

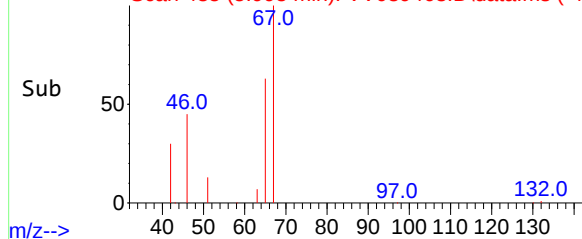
Manual Integrations

APPROVED

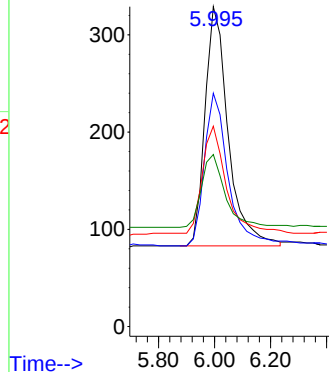
Reviewed By :John Carlone 12/10/2025

Supervised By :Mahesh Dadoda 12/10/2025

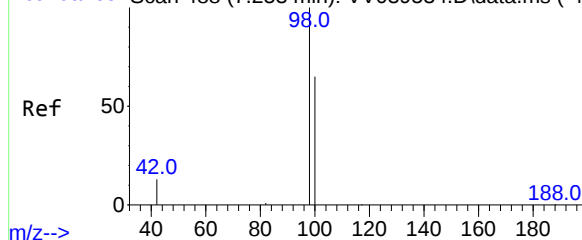
Abundance Scan 435 (5.995 min): VV039468.D\data.ms (-42



Abundance



Abundance Scan 488 (7.253 min): VV039534.D\data.ms (-47



#8

Toluene-d8

Concen: 0.445 ug/L

RT: 7.253 min Scan# 488

Delta R.T. 0.015 min

Lab File: VV039468.D

Acq: 04 Dec 2025 15:03

Tgt Ion: 98 Resp: 2475

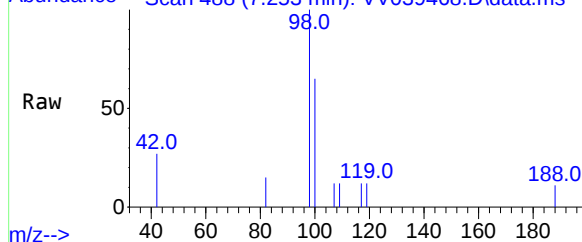
Ion Ratio Lower Upper

98 100

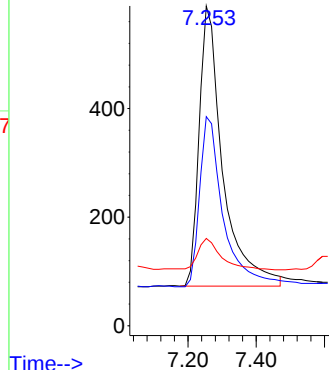
100 61.0 44.5 82.7

42 11.0 10.1 18.7

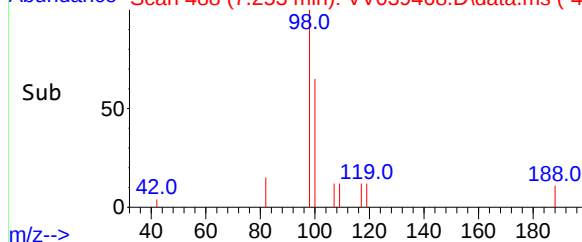
Abundance Scan 488 (7.253 min): VV039468.D\data.ms

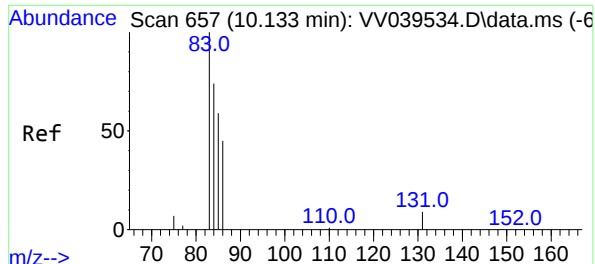


Abundance



Abundance Scan 488 (7.253 min): VV039468.D\data.ms (-47





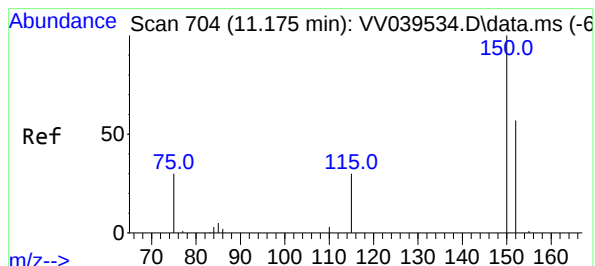
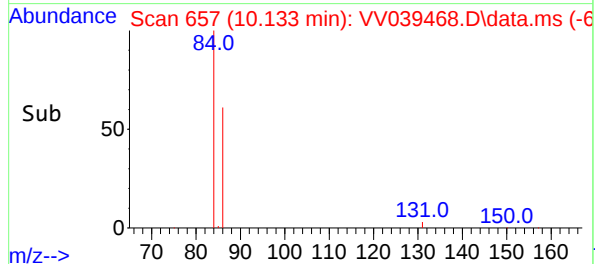
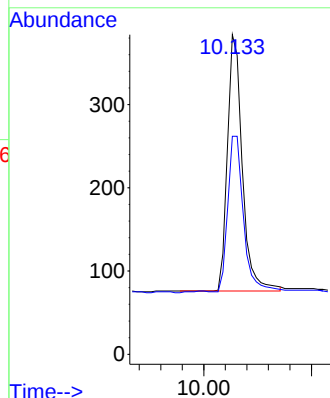
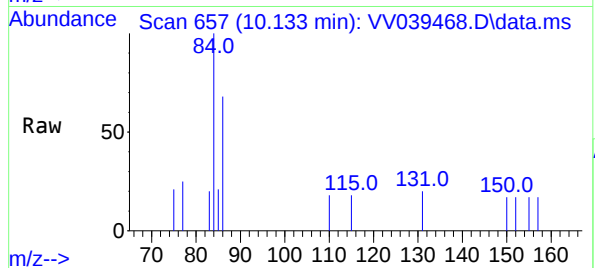
#10
1,1,2,2-Tetrachloroethane-d2
Concen: 0.797 ug/L
RT: 10.133 min Scan# 610
Delta R.T. -0.000 min
Lab File: VV039468.D
Acq: 04 Dec 2025 15:03

Instrument :
MSVOA_V
ClientSampleId :
OW-04B-26.5-120225-SIMRE

Tgt Ion: 84 Resp: 1480
Ion Ratio Lower Upper
84 100
86 64.2 44.4 82.5

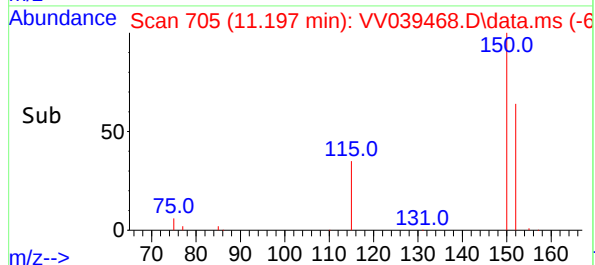
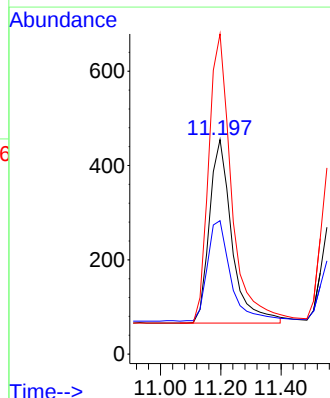
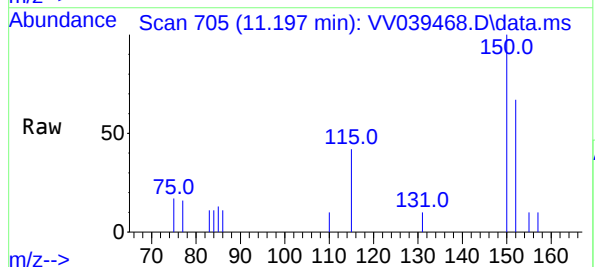
Manual Integrations
APPROVED

Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#12
1,4-Dichlorobenzene-d4
Concen: 0.500 ug/L
RT: 11.197 min Scan# 705
Delta R.T. 0.022 min
Lab File: VV039468.D
Acq: 04 Dec 2025 15:03

Tgt Ion:152 Resp: 2028
Ion Ratio Lower Upper
152 100
115 56.5 0.0 101.6
150 159.2 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
 Data File : VV039464.D
 Acq On : 04 Dec 2025 12:42
 Operator : SY/MD
 Sample : Q3756-06
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-04-12-120225-SIM

Manual Integrations APPROVED

Reviewed By : John Carlone 12/10/2025
 Supervised By : Mahesh Dadoda 12/10/2025

Quant Time: Dec 05 00:09:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6286	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6269	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3210	0.500	ug/L	0.02

System Monitoring Compounds

2) Vinyl Chloride-d3	1.294	65	3569m	0.565	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	112.000%
4) 1,2-Dichloroethane-d4	4.969	65	1917	0.458	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	92.000%
7) 1,2-Dichloropropane-d6	5.995	67	2296	0.434	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	86.000%
8) Toluene-d8	7.253	98	4263	0.478	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	96.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1642	0.551	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	110.000%

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed

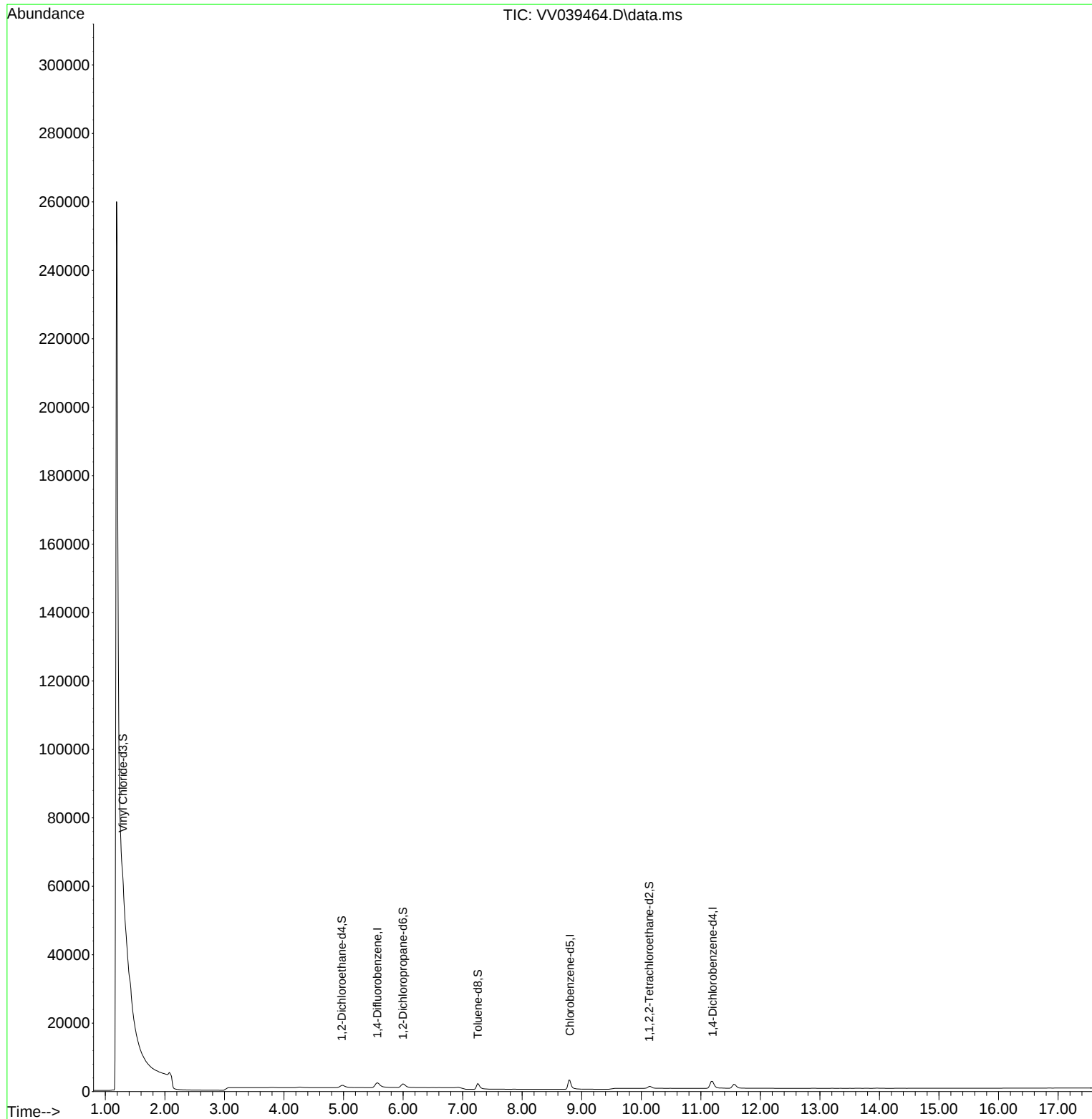
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Data File : VV039464.D
Acq On : 04 Dec 2025 12:42
Operator : SY/MD
Sample : Q3756-06
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 8 Sample Multiplier: 1

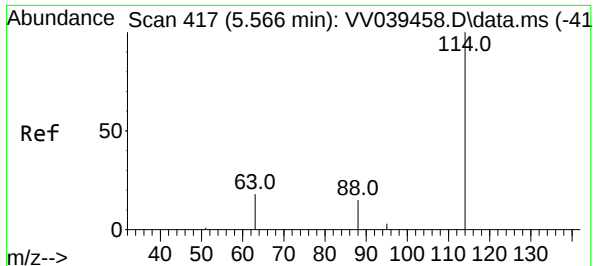
Instrument :
MSVOA_V
ClientSampleId :
MW-04-12-120225-SIM

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/10/2025
Supervised By : Mahesh Dadoda 12/10/2025

Quant Time: Dec 05 00:09:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration





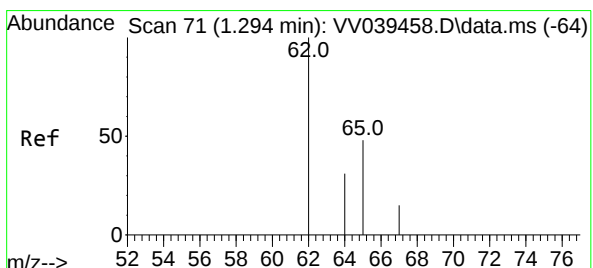
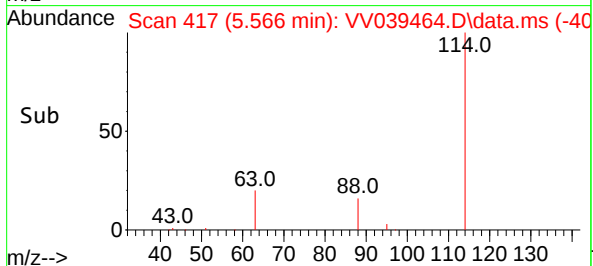
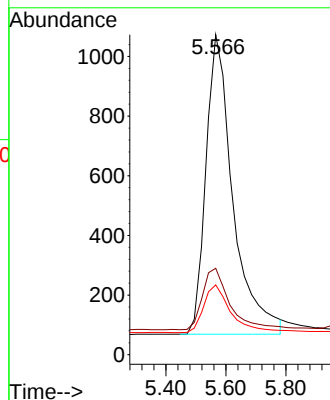
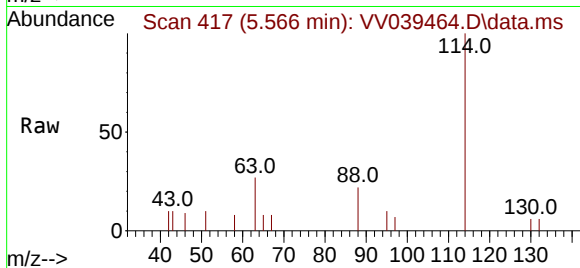
#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

Instrument :
MSVOA_V
ClientSampleId :
MW-04-12-120225-SIM

Tgt Ion:114 Resp: 6280
Ion Ratio Lower Upper
114 100
63 20.7 15.0 22.4
88 16.0 12.0 18.0

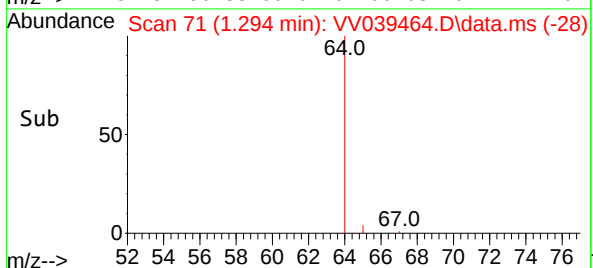
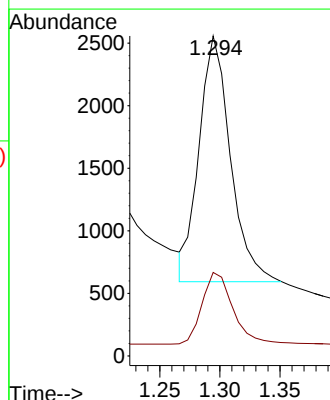
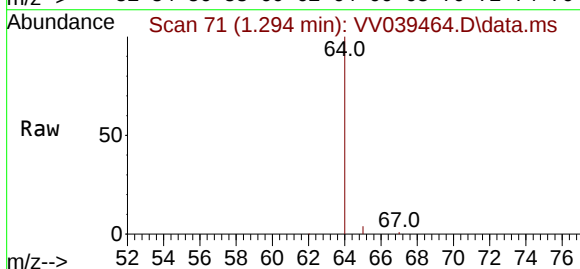
Manual Integrations
APPROVED

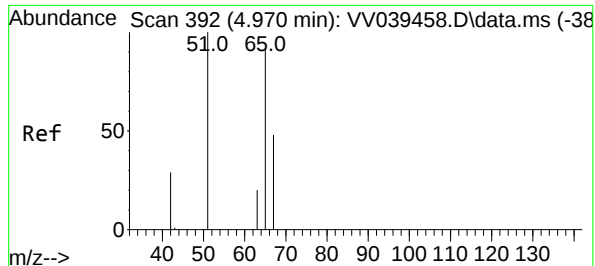
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#2
Vinyl Chloride-d3
Concen: 0.565 ug/L m
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

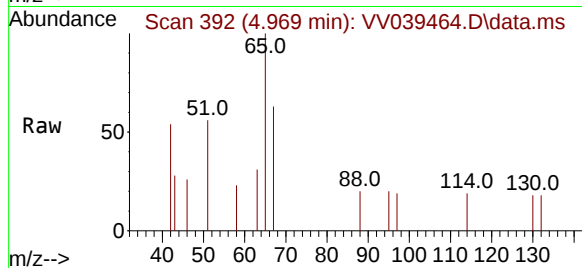
Tgt Ion: 65 Resp: 3569
Ion Ratio Lower Upper
65 100
67 29.8 22.3 41.5





#4
1,2-Dichloroethane-d4
Concen: 0.458 ug/L
RT: 4.969 min Scan# 392
Delta R.T. 0.000 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

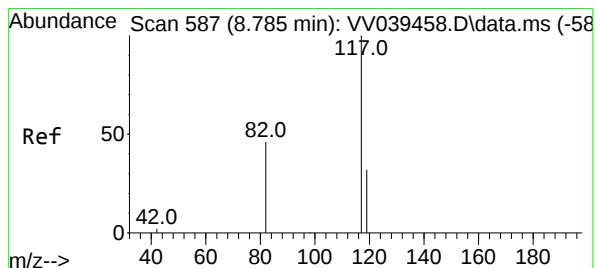
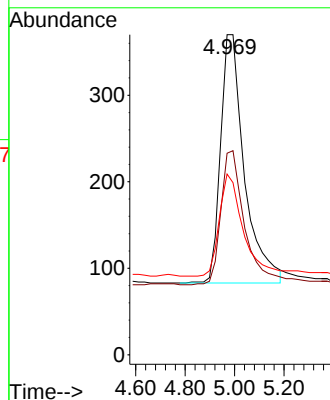
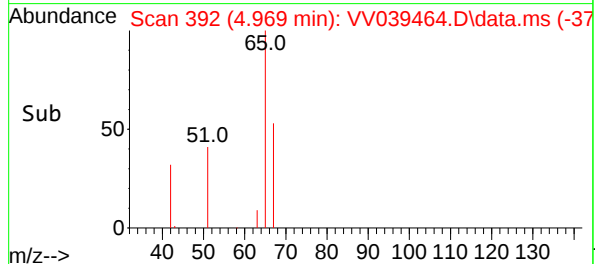
Instrument :
MSVOA_V
ClientSampleId :
MW-04-12-120225-SIM



Tgt Ion: 65 Resp: 191
Ion Ratio Lower Upper
65 100
67 53.7 32.5 60.3
51 41.0 121.4 225.6

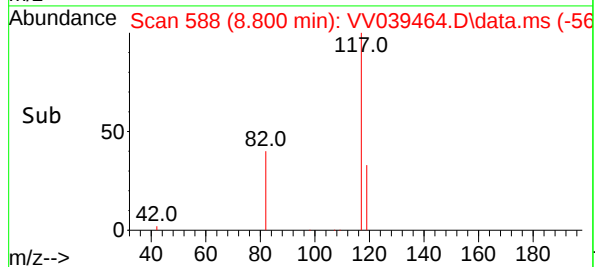
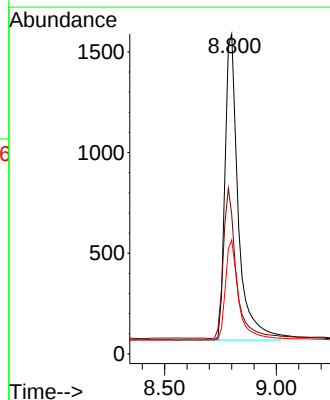
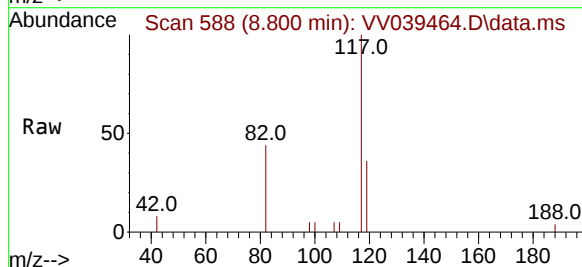
Manual Integrations
APPROVED

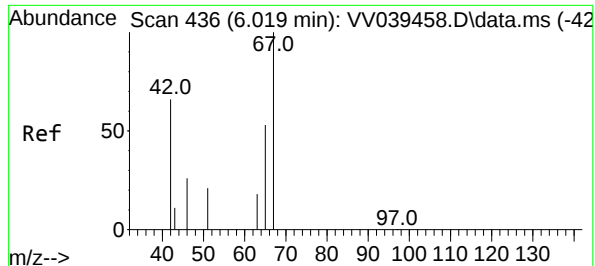
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

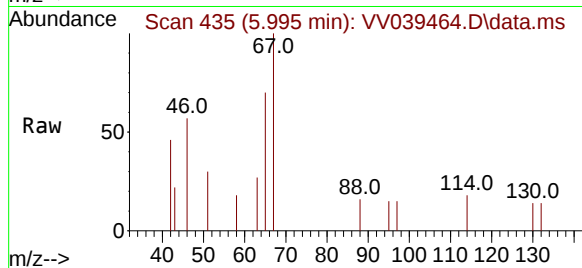
Tgt Ion:117 Resp: 6269
Ion Ratio Lower Upper
117 100
82 47.9 39.4 59.2
119 32.6 26.2 39.2





#7
1,2-Dichloropropane-d6
Concen: 0.434 ug/L
RT: 5.995 min Scan# 435
Delta R.T. -0.024 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

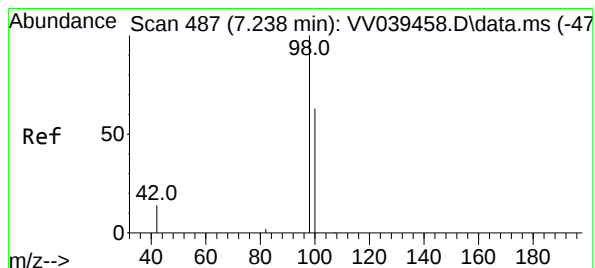
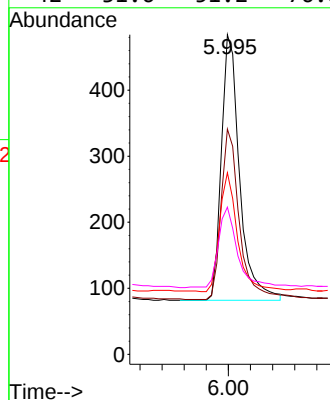
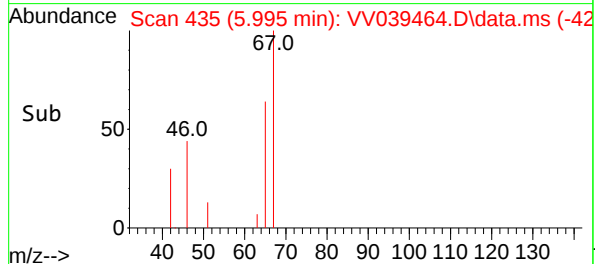
Instrument :
MSVOA_V
ClientSampleId :
MW-04-12-120225-SIM



Tgt Ion: 67 Resp: 2290
Ion Ratio Lower Upper
67 100
65 64.3 37.9 56.9
46 44.3 27.4 41.0
42 31.6 51.2 76.8

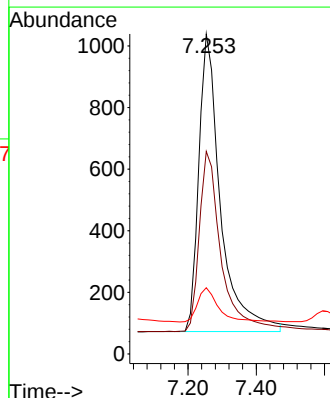
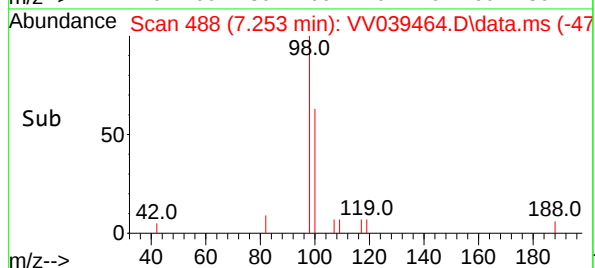
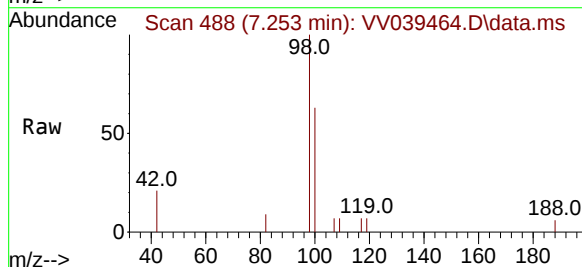
Manual Integrations
APPROVED

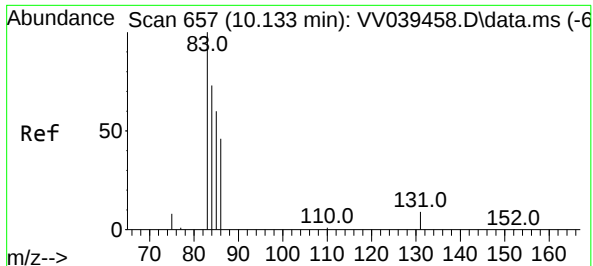
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#8
Toluene-d8
Concen: 0.478 ug/L
RT: 7.253 min Scan# 488
Delta R.T. 0.015 min
Lab File: VV039464.D
Acq: 04 Dec 2025 12:42

Tgt Ion: 98 Resp: 4263
Ion Ratio Lower Upper
98 100
100 61.0 44.5 82.7
42 11.1 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.551 ug/L

RT: 10.133 min Scan# 657

Delta R.T. -0.000 min

Lab File: VV039464.D

Acq: 04 Dec 2025 12:42

Instrument :

MSVOA_V

ClientSampleId :

MW-04-12-120225-SIM

Tgt Ion: 84 Resp: 164

Ion Ratio Lower Upper

84 100

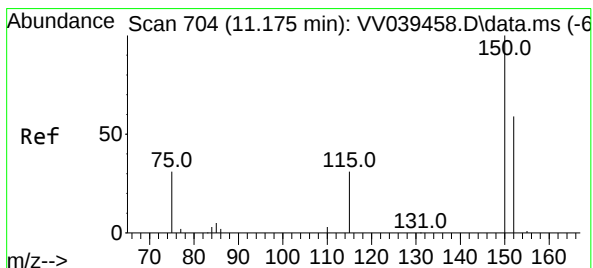
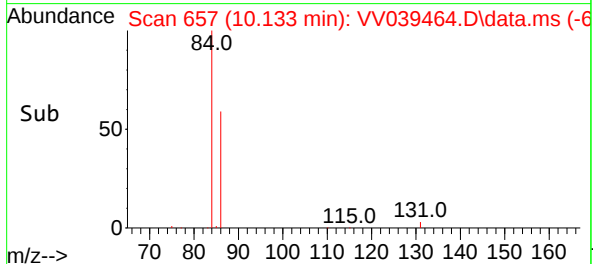
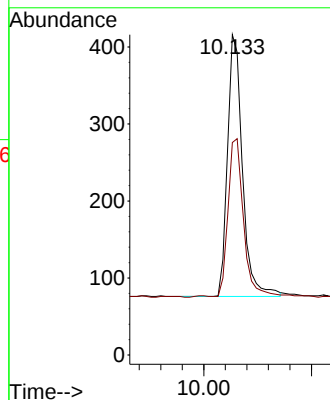
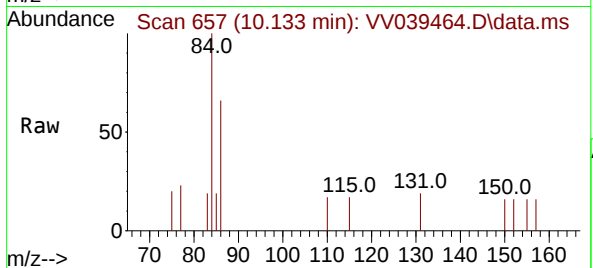
86 61.8 44.4 82.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/10/2025

Supervised By :Mahesh Dadoda 12/10/2025



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039464.D

Acq: 04 Dec 2025 12:42

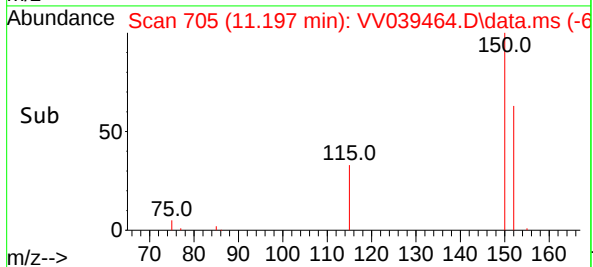
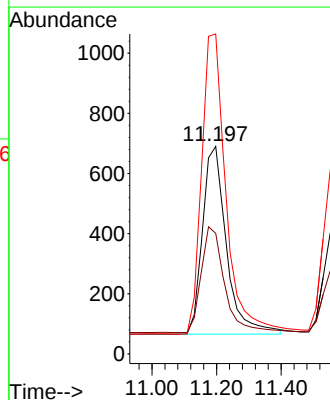
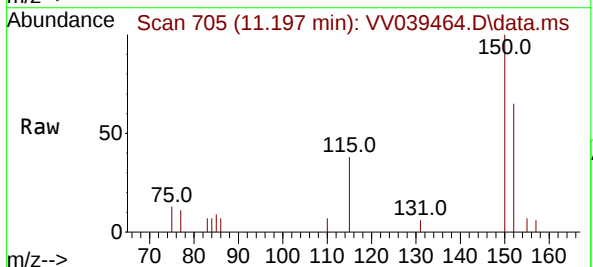
Tgt Ion:152 Resp: 3210

Ion Ratio Lower Upper

152 100

115 54.8 0.0 101.6

150 162.2 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
 Data File : VV039465.D
 Acq On : 04 Dec 2025 13:03
 Operator : SY/MD
 Sample : Q3756-08
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MW-13B-47.5-120225-SIM

Manual Integrations APPROVED

Reviewed By : John Carlone 12/10/2025
 Supervised By : Mahesh Dadoda 12/10/2025

Quant Time: Dec 05 00:09:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6414	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6408	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3306	0.500	ug/L	0.02
System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	3995m	0.619	ug/L	0.00
Spiked Amount 0.500	Range 40 - 130		Recovery =	124.000%		
4) 1,2-Dichloroethane-d4	4.993	65	1926	0.451	ug/L	0.02
Spiked Amount 0.500	Range 70 - 130		Recovery =	90.000%		
7) 1,2-Dichloropropane-d6	5.995	67	2269	0.420	ug/L	-0.02
Spiked Amount 0.500	Range 60 - 140		Recovery =	84.000%		
8) Toluene-d8	7.253	98	4165	0.457	ug/L	0.02
Spiked Amount 0.500	Range 70 - 130		Recovery =	92.000%		
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1632	0.536	ug/L	0.00
Spiked Amount 0.500	Range 65 - 120		Recovery =	108.000%		

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

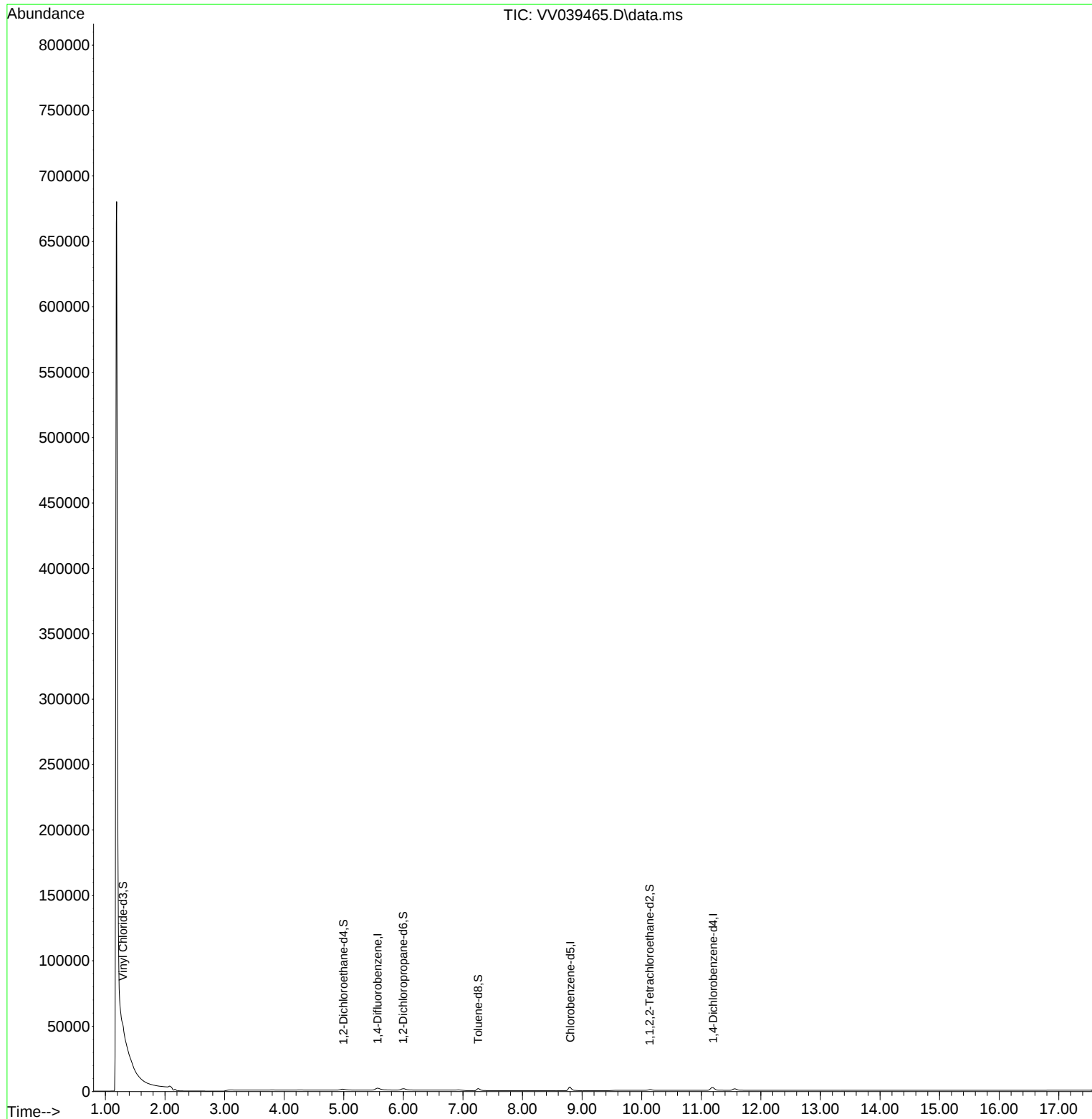
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Data File : VV039465.D
Acq On : 04 Dec 2025 13:03
Operator : SY/MD
Sample : Q3756-08
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 9 Sample Multiplier: 1

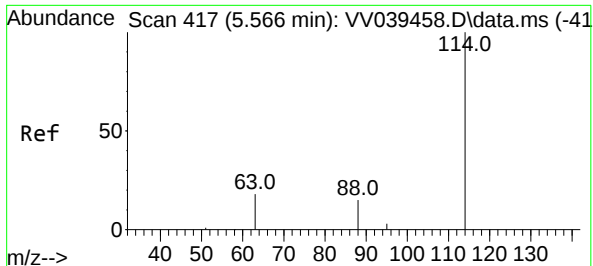
Instrument :
MSVOA_V
ClientSampleId :
MW-13B-47.5-120225-SIM

Manual Integrations
APPROVED

Reviewed By : John Carlone 12/10/2025
Supervised By : Mahesh Dadoda 12/10/2025

Quant Time: Dec 05 00:09:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration





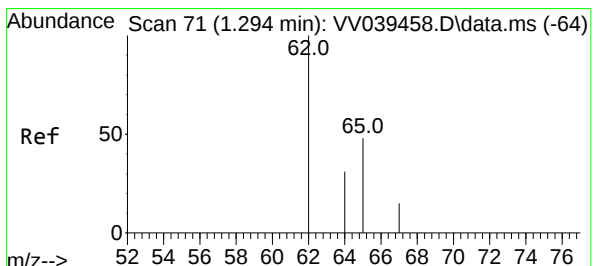
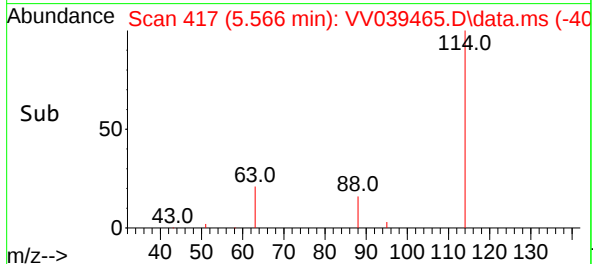
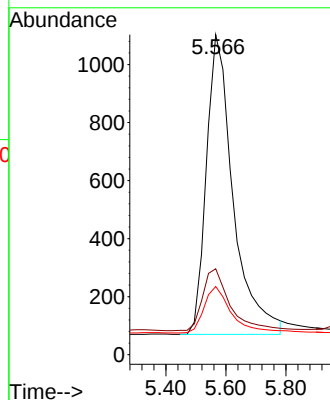
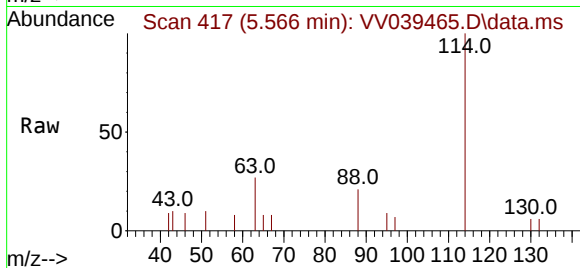
#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

Instrument :
MSVOA_V
ClientSampleId :
MW-13B-47.5-120225-SIM

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.8	15.0	22.4
88	15.6	12.0	18.0

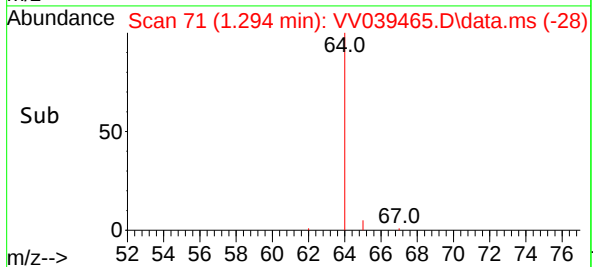
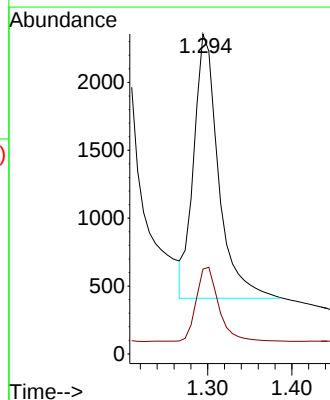
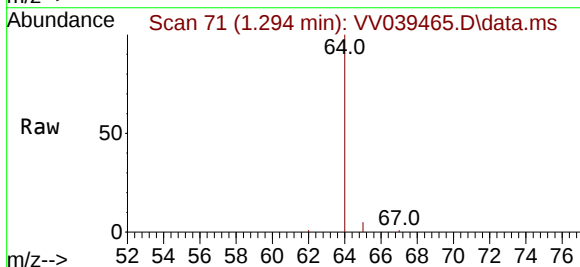
Manual Integrations
APPROVED

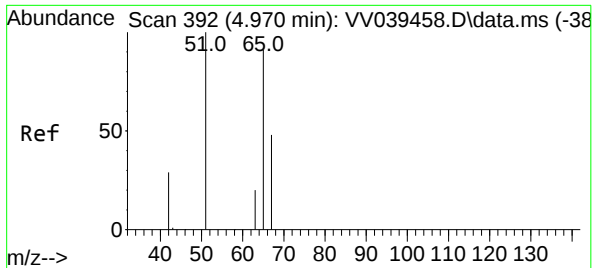
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#2
Vinyl Chloride-d3
Concen: 0.619 ug/L m
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

Tgt Ion	Ratio	Lower	Upper
65	100		
67	26.4	22.3	41.5





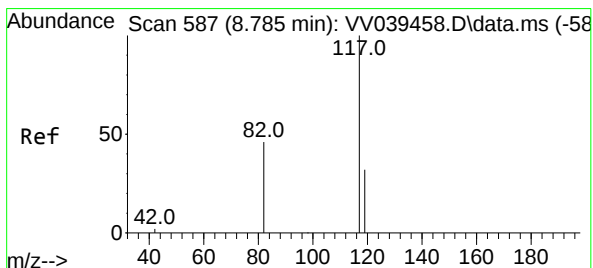
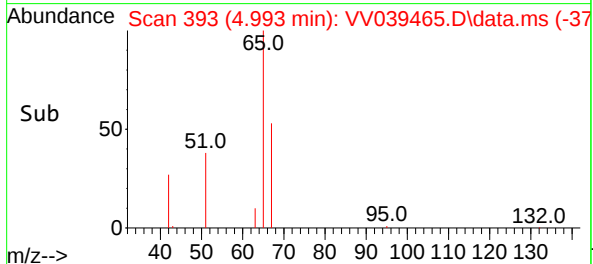
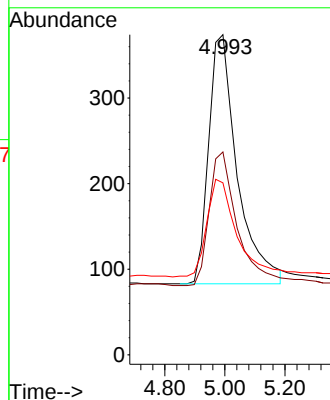
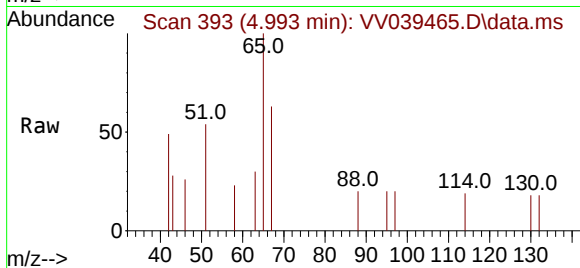
#4
1,2-Dichloroethane-d4
Concen: 0.451 ug/L
RT: 4.993 min Scan# 393
Delta R.T. 0.024 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

Instrument :
MSVOA_V
ClientSampleId :
MW-13B-47.5-120225-SIM

Tgt Ion: 65 Resp: 1920
Ion Ratio Lower Upper
65 100
67 53.0 32.5 60.3
51 41.0 121.4 225.6

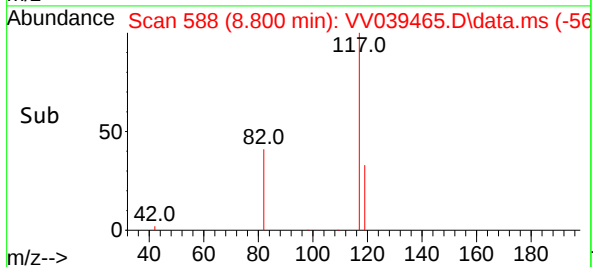
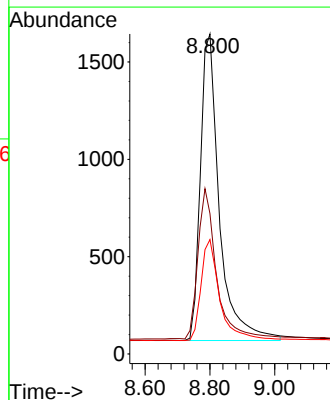
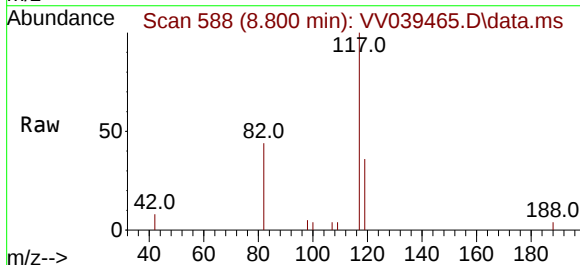
Manual Integrations
APPROVED

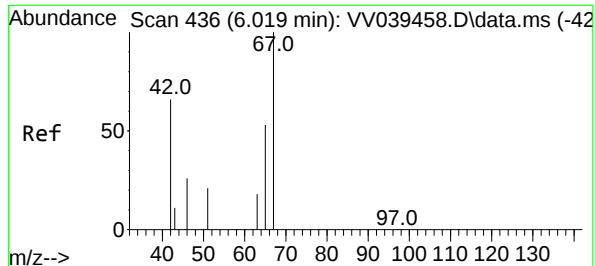
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

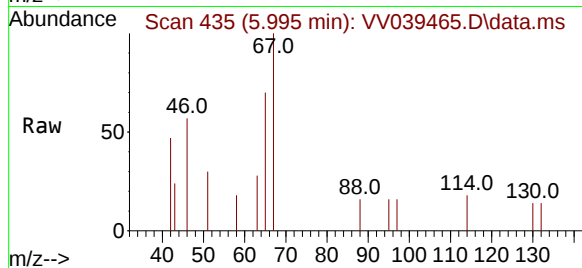
Tgt Ion:117 Resp: 6408
Ion Ratio Lower Upper
117 100
82 47.8 39.4 59.2
119 32.7 26.2 39.2





#7
1,2-Dichloropropane-d6
Concen: 0.420 ug/L
RT: 5.995 min Scan# 436
Delta R.T. -0.024 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

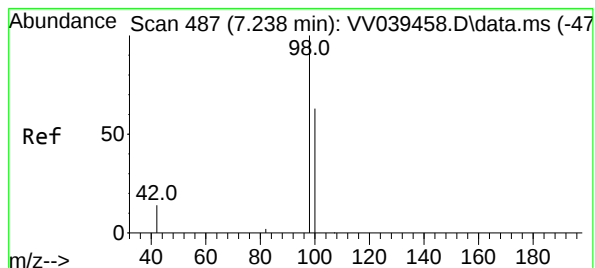
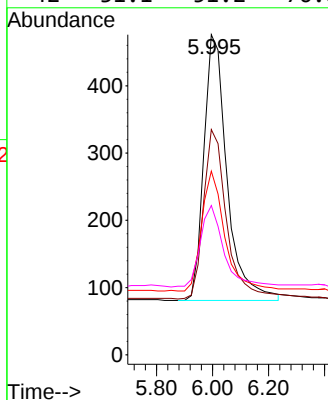
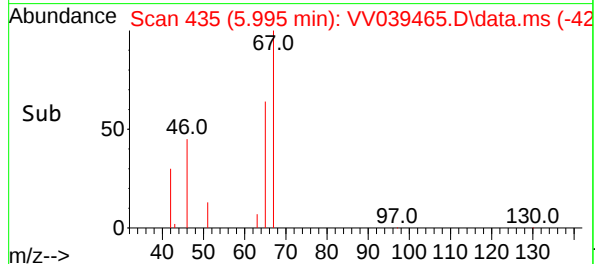
Instrument :
MSVOA_V
ClientSampleId :
MW-13B-47.5-120225-SIM



Tgt Ion: 67 Resp: 2269
Ion Ratio Lower Upper
67 100
65 63.9 37.9 56.9
46 45.3 27.4 41.0
42 31.1 51.2 76.8

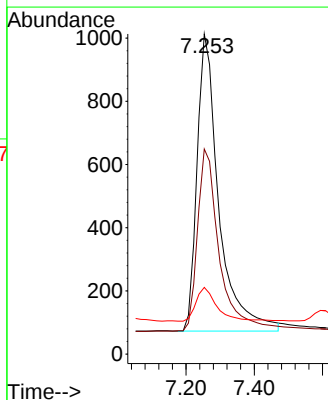
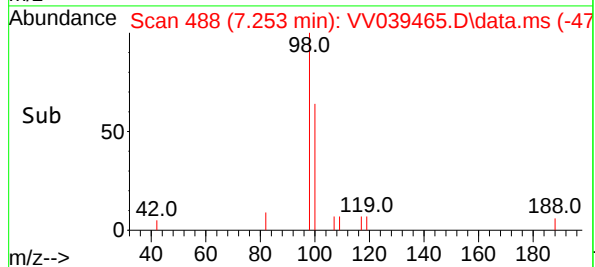
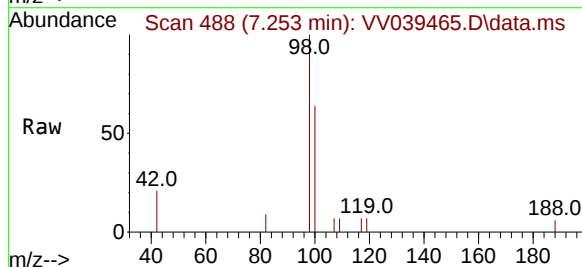
Manual Integrations
APPROVED

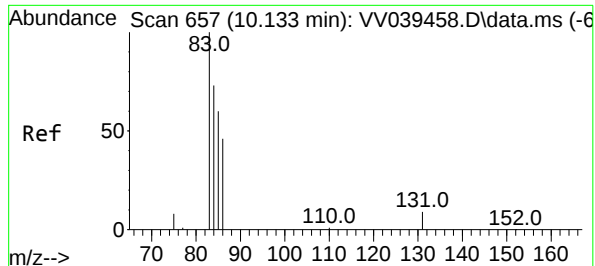
Reviewed By :John Carlone 12/10/2025
Supervised By :Mahesh Dadoda 12/10/2025



#8
Toluene-d8
Concen: 0.457 ug/L
RT: 7.253 min Scan# 488
Delta R.T. 0.015 min
Lab File: VV039465.D
Acq: 04 Dec 2025 13:03

Tgt Ion: 98 Resp: 4165
Ion Ratio Lower Upper
98 100
100 61.4 44.5 82.7
42 11.0 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.536 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039465.D

Acq: 04 Dec 2025 13:03

Instrument :

MSVOA_V

ClientSampleId :

MW-13B-47.5-120225-SIM

Tgt Ion: 84 Resp: 163

Ion Ratio Lower Upper

84 100

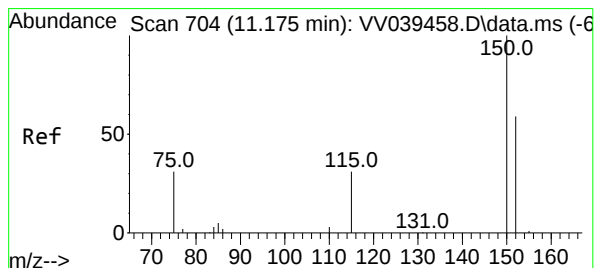
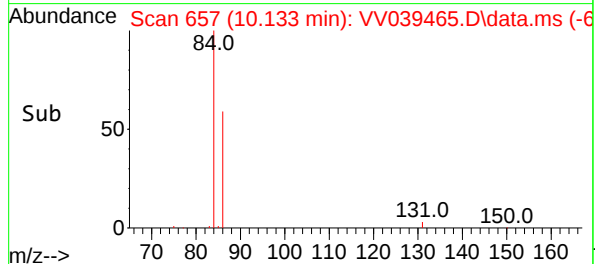
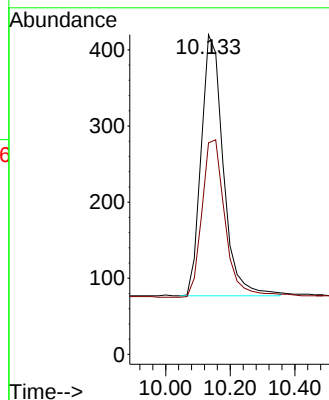
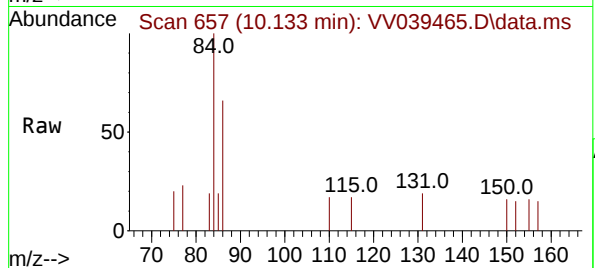
86 63.6 44.4 82.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 12/10/2025

Supervised By :Mahesh Dadoda 12/10/2025



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039465.D

Acq: 04 Dec 2025 13:03

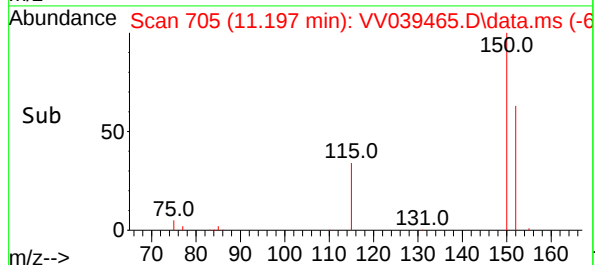
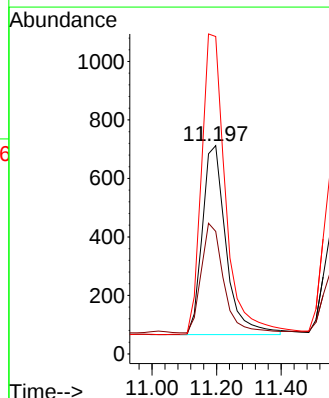
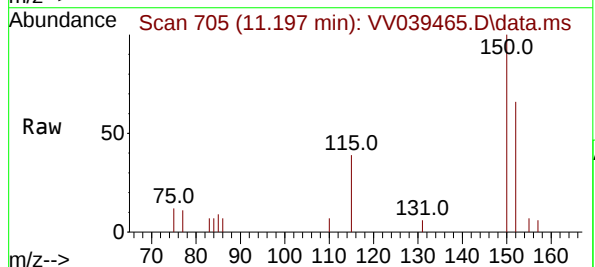
Tgt Ion:152 Resp: 3306

Ion Ratio Lower Upper

152 100

115 54.6 0.0 101.6

150 160.6 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
 Data File : VV039461.D
 Acq On : 04 Dec 2025 11:39
 Operator : SY/MD
 Sample : Q3756-09
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EB01-120225

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:09:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	5924	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	5926	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3125	0.500	ug/L	0.02

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.295	65	3303	0.554	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	110.000%
4) 1,2-Dichloroethane-d4	4.970	65	1835	0.465	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	94.000%
7) 1,2-Dichloropropane-d6	5.996	67	2147	0.429	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	86.000%
8) Toluene-d8	7.254	98	4094	0.485	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	98.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1512	0.537	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	108.000%

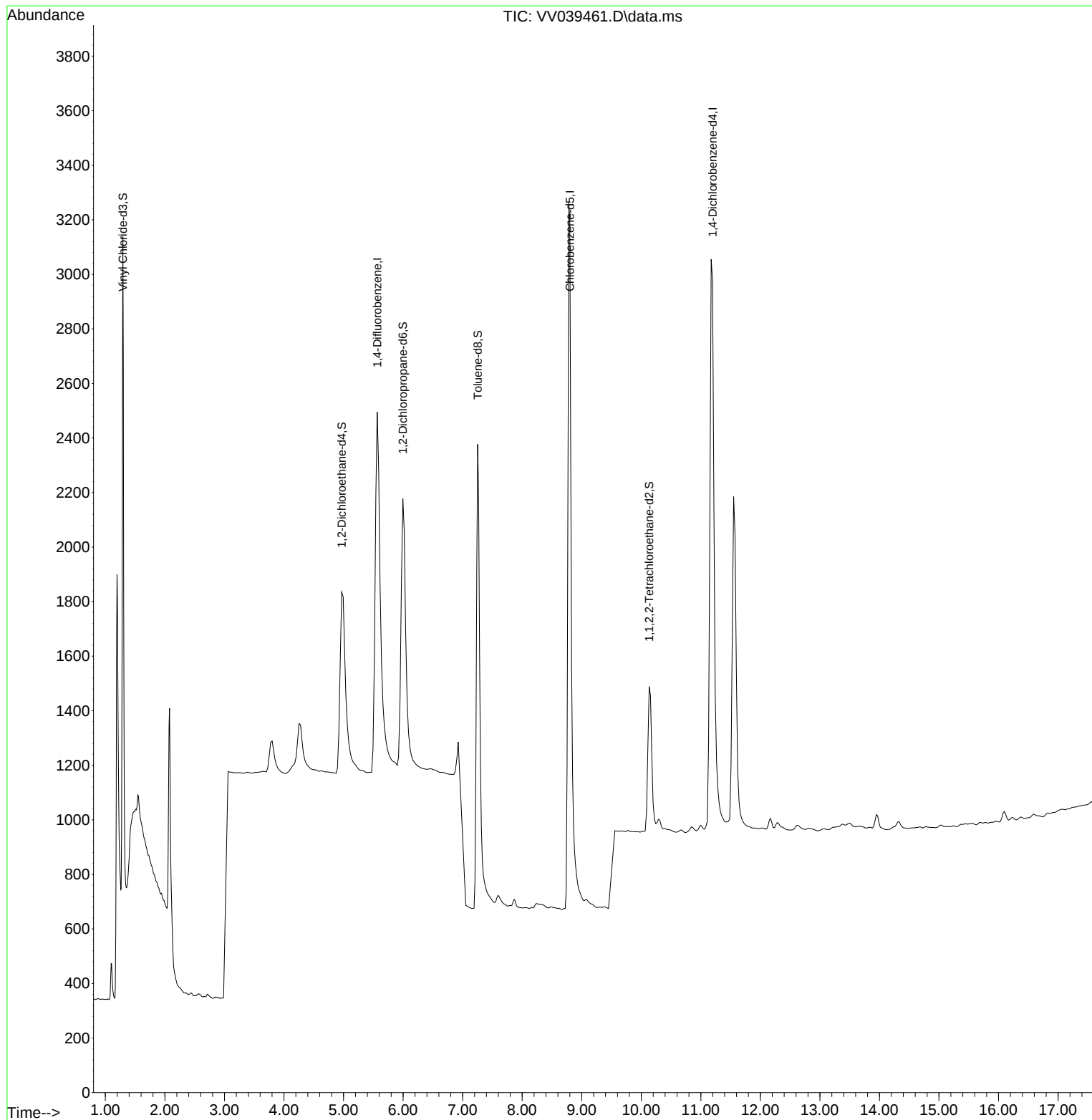
Target Compounds	Qvalue

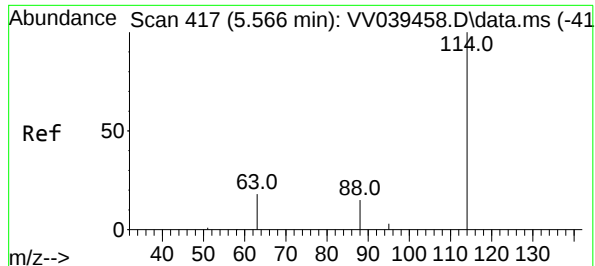
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039461.D
Acq On : 04 Dec 2025 11:39
Operator : SY/MD
Sample : Q3756-09
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
EB01-120225

Quant Time: Dec 05 00:09:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

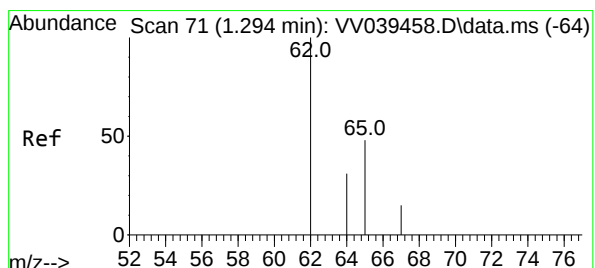
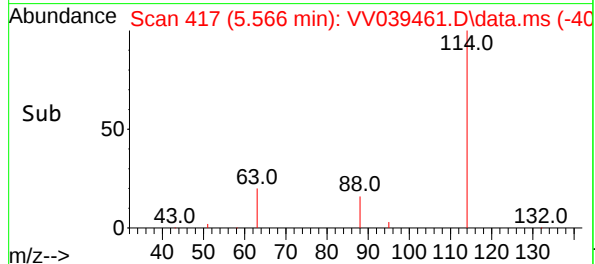
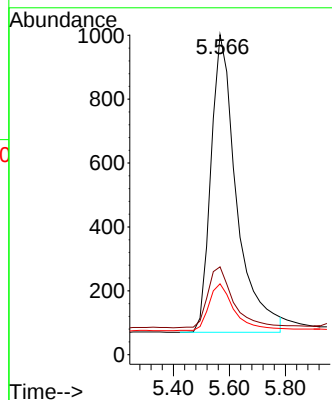
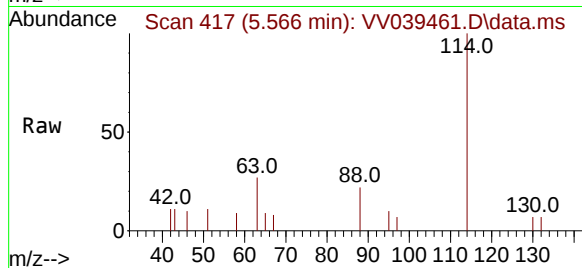




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. 0.000 min
Lab File: VV039461.D
Acq: 04 Dec 2025 11:39

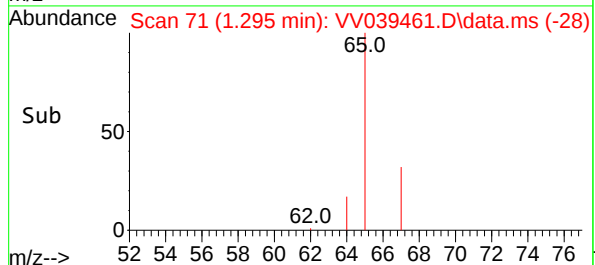
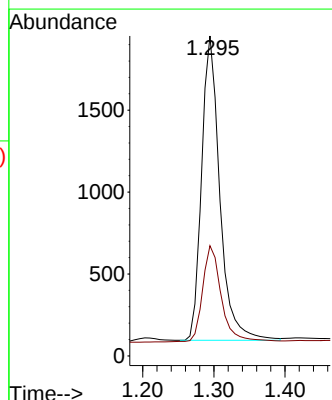
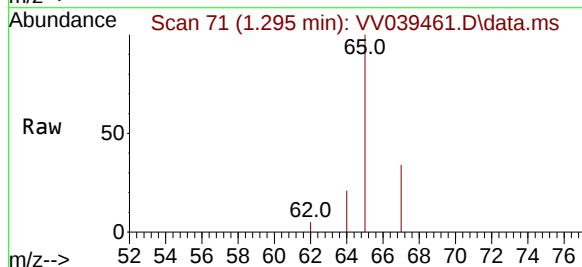
Instrument :
MSVOA_V
ClientSampleId :
EB01-120225

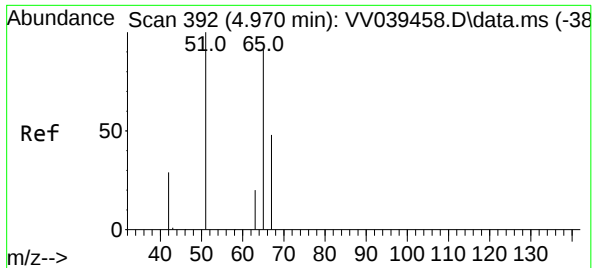
Tgt Ion:114	Resp:	5924
Ion Ratio	Lower	Upper
114	100	
63	20.6	15.0 22.4
88	15.7	12.0 18.0



#2
Vinyl Chloride-d3
Concen: 0.554 ug/L
RT: 1.295 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039461.D
Acq: 04 Dec 2025 11:39

Tgt Ion: 65	Resp:	3303
Ion Ratio	Lower	Upper
65	100	
67	33.1	22.3 41.5

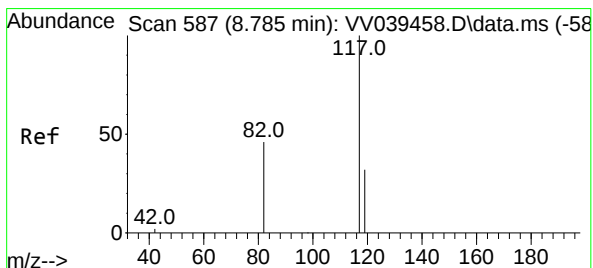
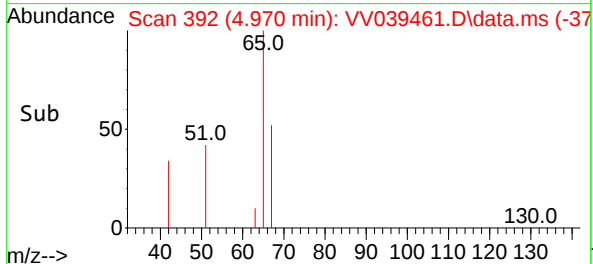
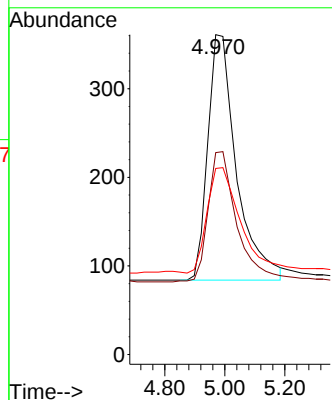
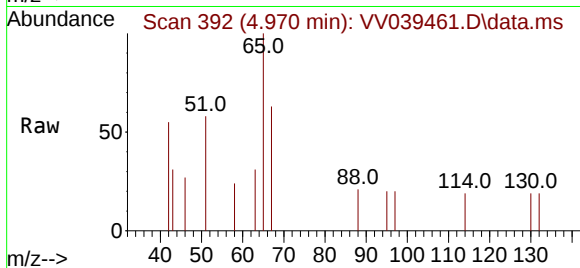




#4
1,2-Dichloroethane-d4
Concen: 0.465 ug/L
RT: 4.970 min Scan# 392
Delta R.T. 0.001 min
Lab File: VV039461.D
Acq: 04 Dec 2025 11:39

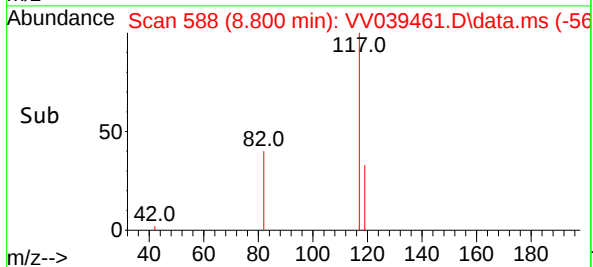
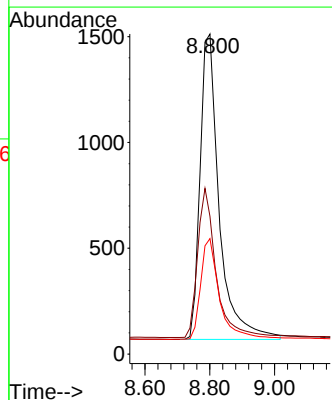
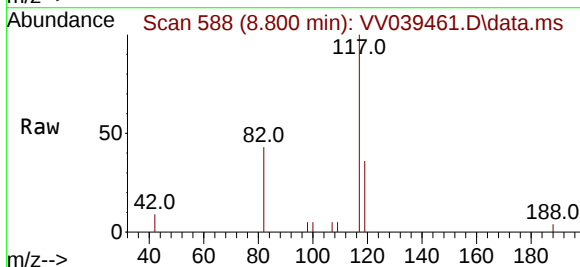
Instrument :
MSVOA_V
ClientSampleId :
EB01-120225

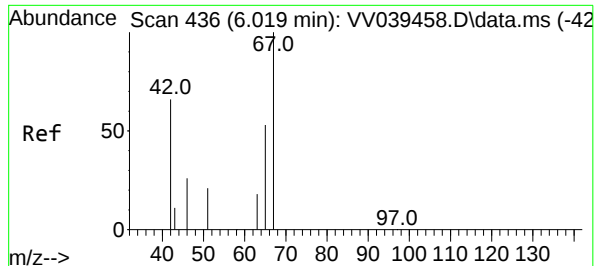
Tgt Ion: 65 Resp: 1835
Ion Ratio Lower Upper
65 100
67 53.2 32.5 60.3
51 49.9 121.4 225.6#



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.016 min
Lab File: VV039461.D
Acq: 04 Dec 2025 11:39

Tgt Ion: 117 Resp: 5926
Ion Ratio Lower Upper
117 100
82 47.2 39.4 59.2
119 32.7 26.2 39.2





#7

1,2-Dichloropropane-d6

Concen: 0.429 ug/L

RT: 5.996 min Scan# 41

Delta R.T. -0.023 min

Lab File: VV039461.D

Acq: 04 Dec 2025 11:39

Instrument :

MSVOA_V

ClientSampleId :

EB01-120225

Tgt Ion: 67 Resp: 2147

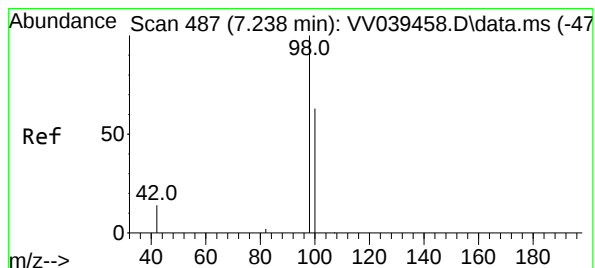
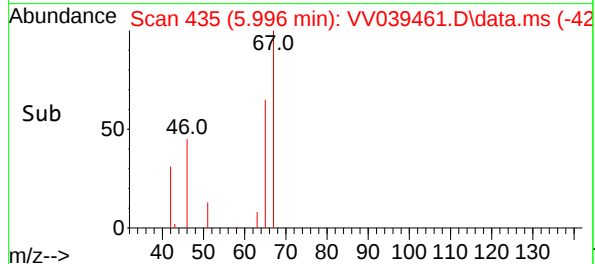
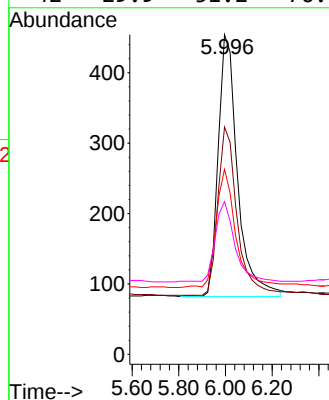
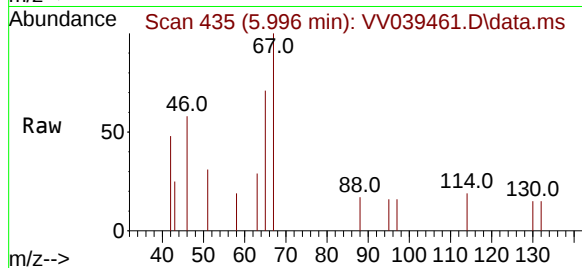
Ion Ratio Lower Upper

67 100

65 63.7 37.9 56.9#

46 45.9 27.4 41.0#

42 29.9 51.2 76.8#



#8

Toluene-d8

Concen: 0.485 ug/L

RT: 7.254 min Scan# 488

Delta R.T. 0.016 min

Lab File: VV039461.D

Acq: 04 Dec 2025 11:39

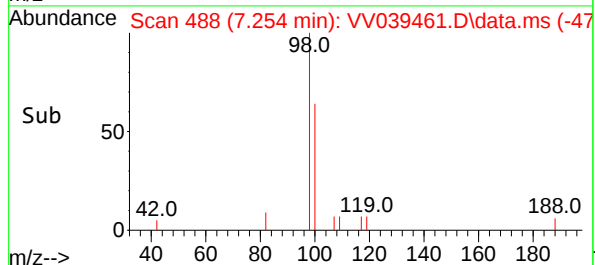
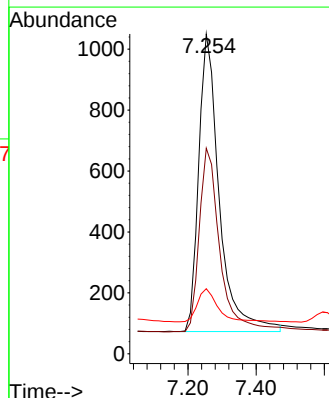
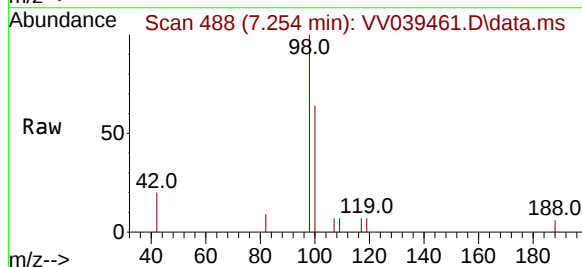
Tgt Ion: 98 Resp: 4094

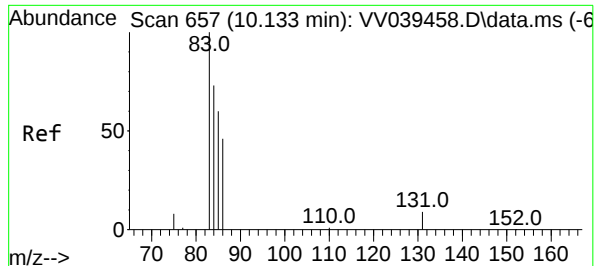
Ion Ratio Lower Upper

98 100

100 61.6 44.5 82.7

42 11.0 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.537 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039461.D

Acq: 04 Dec 2025 11:39

Instrument :

MSVOA_V

ClientSampleId :

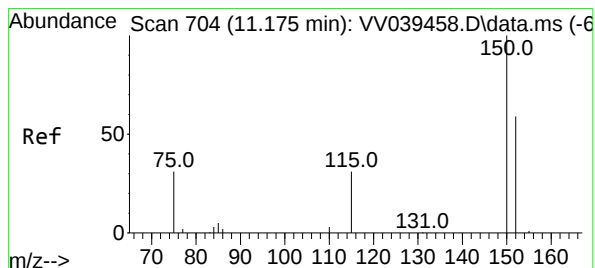
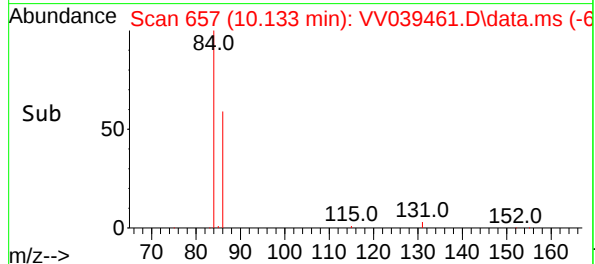
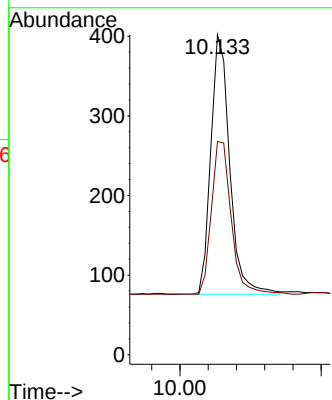
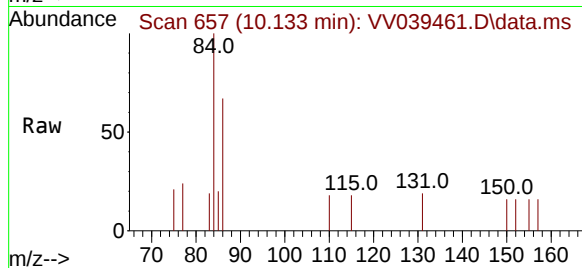
EB01-120225

Tgt Ion: 84 Resp: 1512

Ion Ratio Lower Upper

84 100

86 61.4 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039461.D

Acq: 04 Dec 2025 11:39

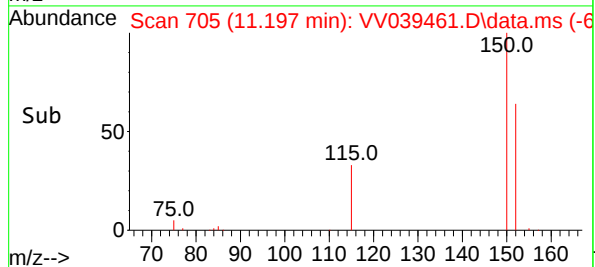
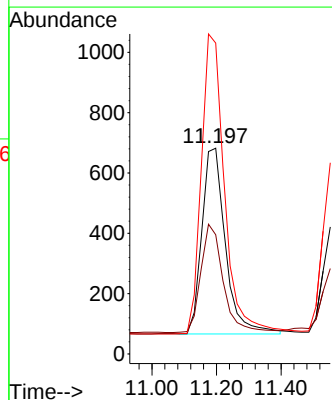
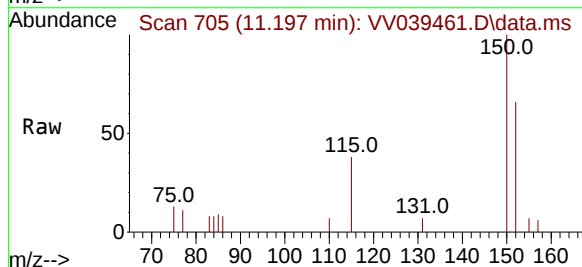
Tgt Ion: 152 Resp: 3125

Ion Ratio Lower Upper

152 100

115 55.1 0.0 101.6

150 158.4 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
 Data File : VV039462.D
 Acq On : 04 Dec 2025 12:00
 Operator : SY/MD
 Sample : Q3756-10
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 TB01-120225

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:09:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6252	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6195	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3146	0.500	ug/L	0.02

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	3388	0.539	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	108.000%
4) 1,2-Dichloroethane-d4	4.993	65	1874	0.450	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	90.000%
7) 1,2-Dichloropropane-d6	5.996	67	2185	0.418	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	84.000%
8) Toluene-d8	7.254	98	4126	0.468	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	94.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1530	0.519	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	104.000%

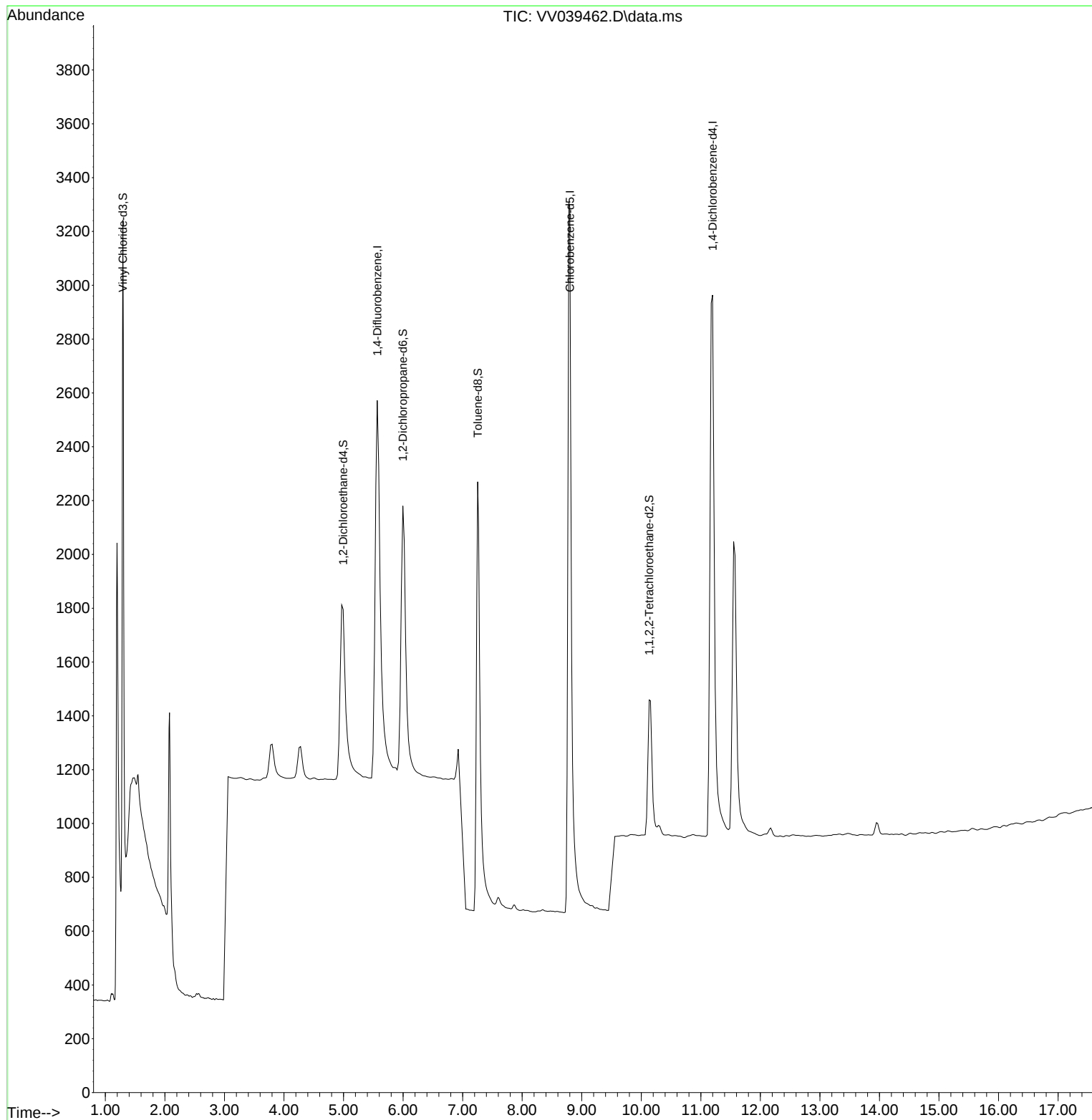
Target Compounds	Qvalue

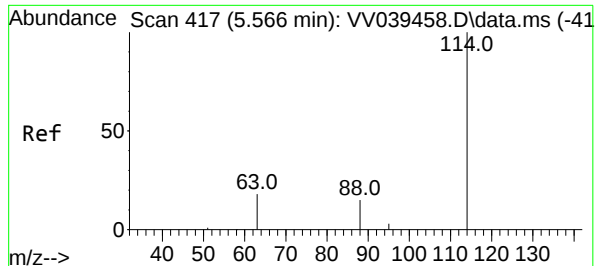
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039462.D
Acq On : 04 Dec 2025 12:00
Operator : SY/MD
Sample : Q3756-10
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
TB01-120225

Quant Time: Dec 05 00:09:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

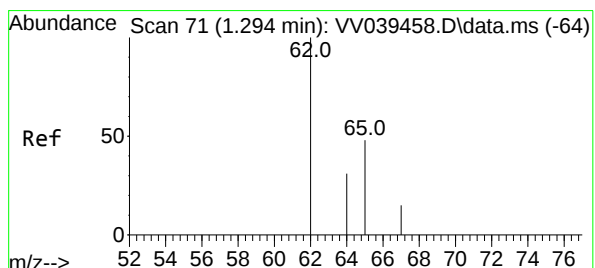
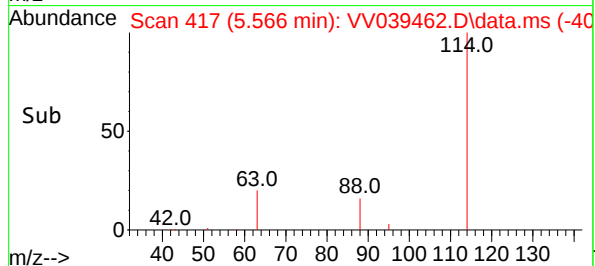
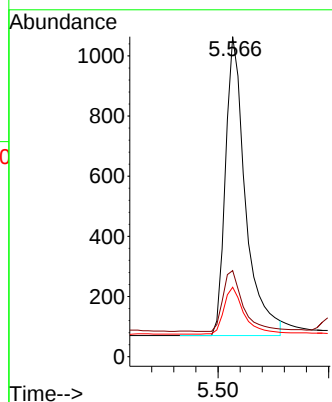
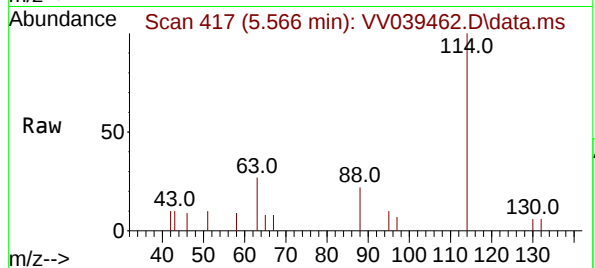




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV039462.D
Acq: 04 Dec 2025 12:00

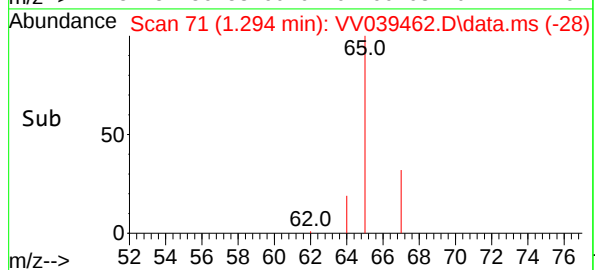
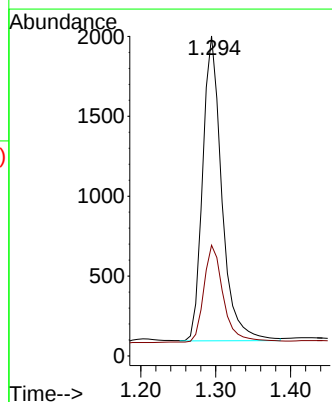
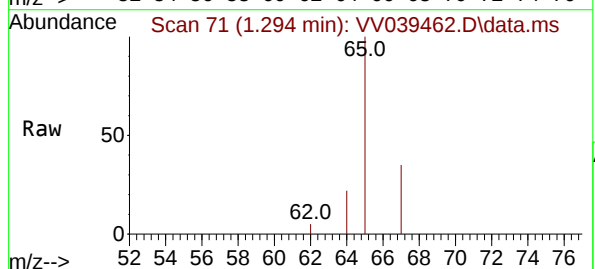
Instrument :
MSVOA_V
ClientSampleId :
TB01-120225

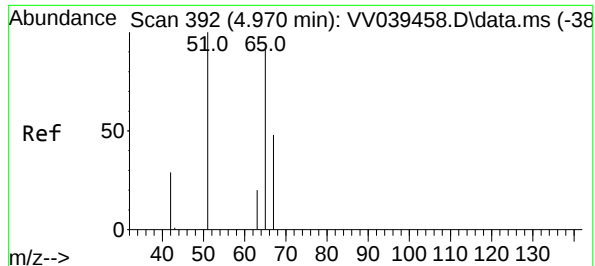
Tgt Ion:114 Resp: 6252
Ion Ratio Lower Upper
114 100
63 20.3 15.0 22.4
88 15.7 12.0 18.0



#2
Vinyl Chloride-d3
Concen: 0.539 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039462.D
Acq: 04 Dec 2025 12:00

Tgt Ion: 65 Resp: 3388
Ion Ratio Lower Upper
65 100
67 33.2 22.3 41.5

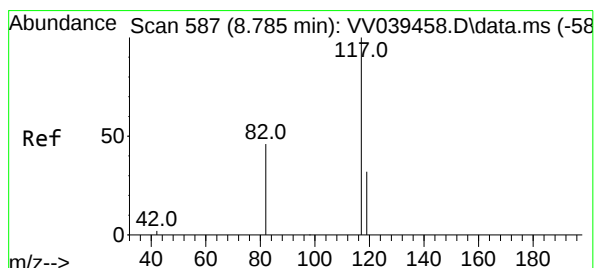
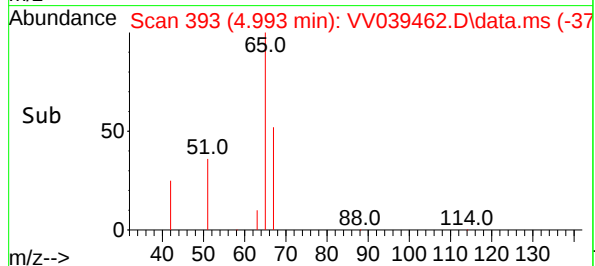
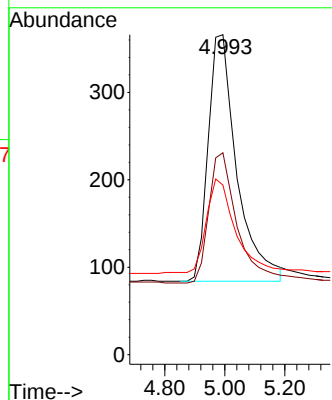
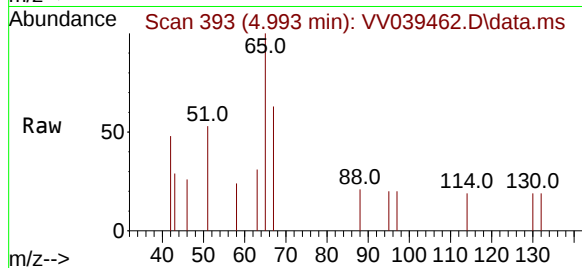




#4
1,2-Dichloroethane-d4
Concen: 0.450 ug/L
RT: 4.993 min Scan# 392
Delta R.T. 0.024 min
Lab File: VV039462.D
Acq: 04 Dec 2025 12:00

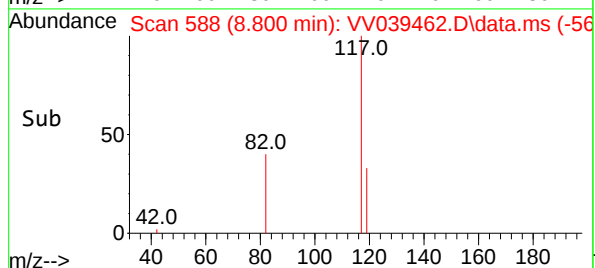
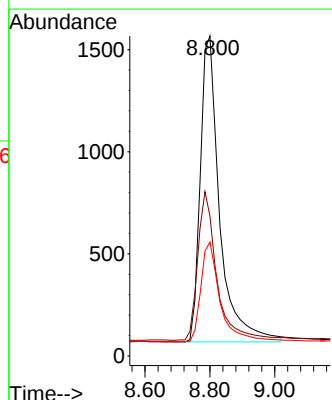
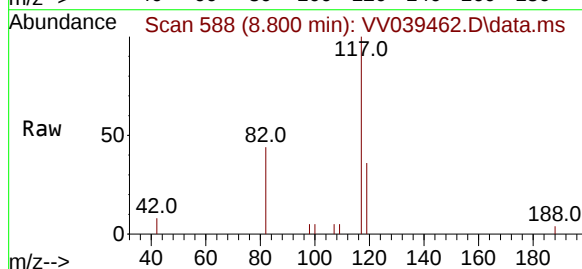
Instrument :
MSVOA_V
ClientSampleId :
TB01-120225

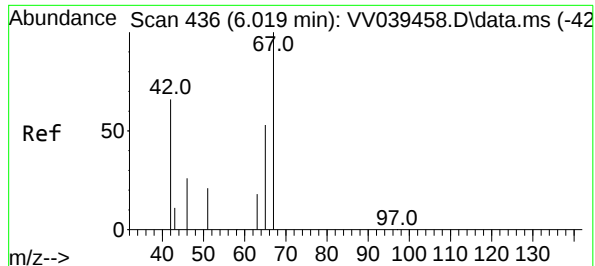
Tgt Ion: 65 Resp: 1874
Ion Ratio Lower Upper
65 100
67 52.4 32.5 60.3
51 39.0 121.4 225.6#



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.016 min
Lab File: VV039462.D
Acq: 04 Dec 2025 12:00

Tgt Ion: 117 Resp: 6195
Ion Ratio Lower Upper
117 100
82 47.9 39.4 59.2
119 32.6 26.2 39.2





#7

1,2-Dichloropropane-d6

Concen: 0.418 ug/L

RT: 5.996 min Scan# 41

Delta R.T. -0.023 min

Lab File: VV039462.D

Acq: 04 Dec 2025 12:00

Instrument :

MSVOA_V

ClientSampleId :

TB01-120225

Tgt Ion: 67 Resp: 2185

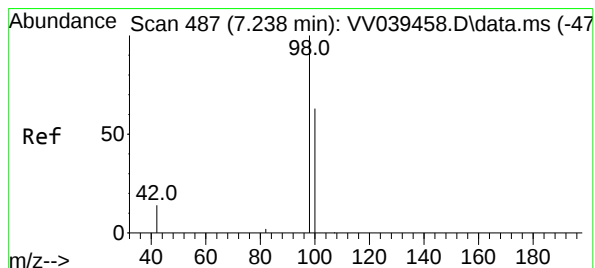
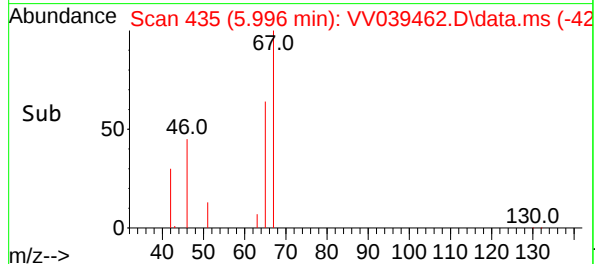
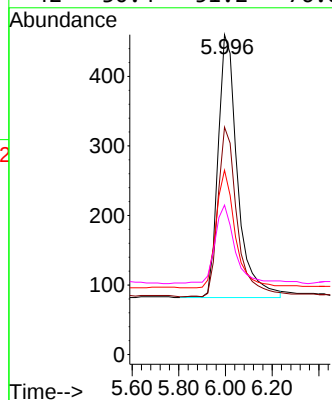
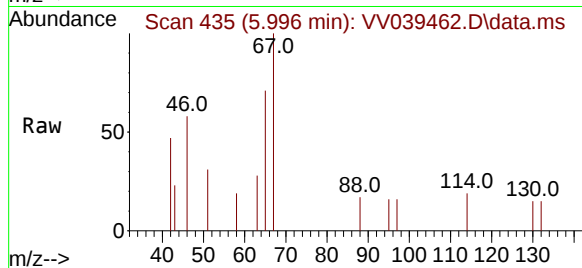
Ion Ratio Lower Upper

67 100

65 63.9 37.9 56.9#

46 43.7 27.4 41.0#

42 30.4 51.2 76.8#



#8

Toluene-d8

Concen: 0.468 ug/L

RT: 7.254 min Scan# 488

Delta R.T. 0.016 min

Lab File: VV039462.D

Acq: 04 Dec 2025 12:00

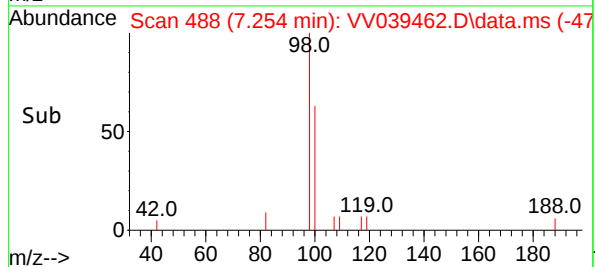
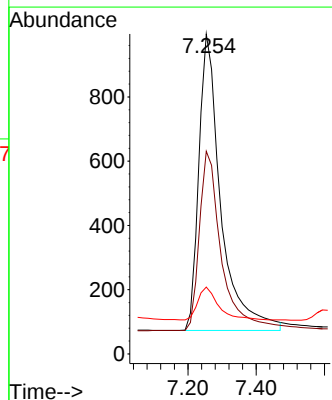
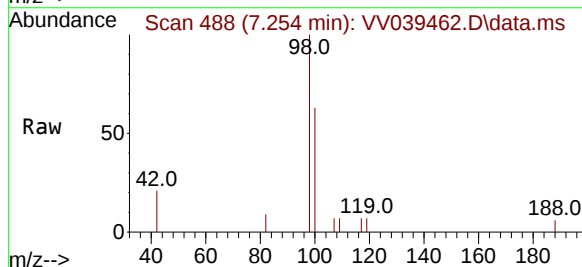
Tgt Ion: 98 Resp: 4126

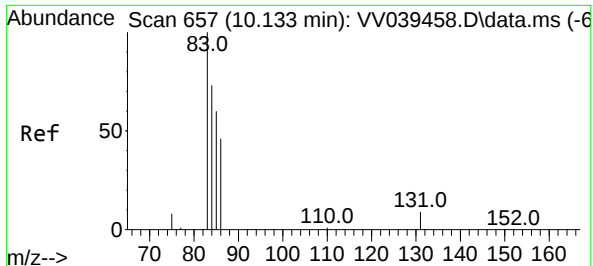
Ion Ratio Lower Upper

98 100

100 60.7 44.5 82.7

42 10.3 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.519 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039462.D

Acq: 04 Dec 2025 12:00

Instrument :

MSVOA_V

ClientSampleId :

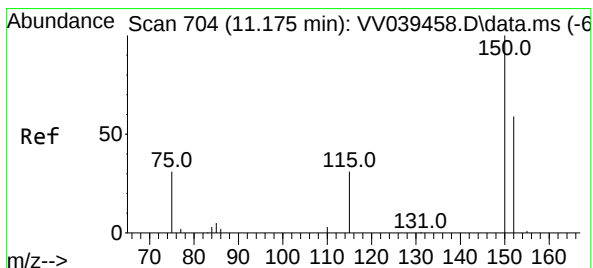
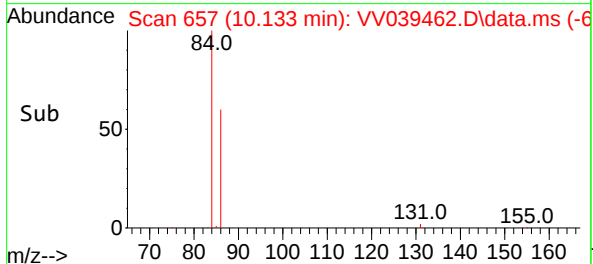
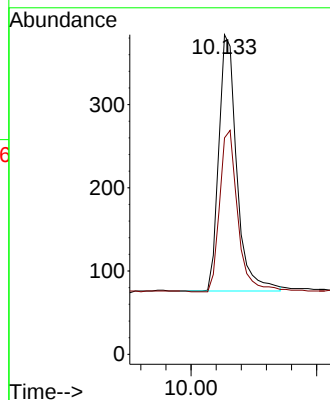
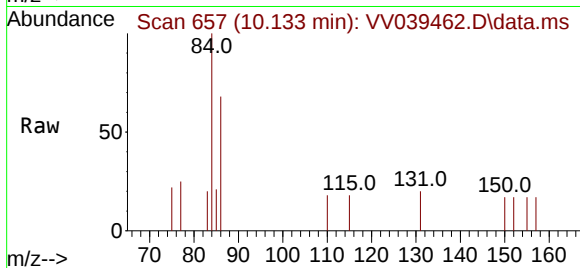
TB01-120225

Tgt Ion: 84 Resp: 1530

Ion Ratio Lower Upper

84 100

86 63.5 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039462.D

Acq: 04 Dec 2025 12:00

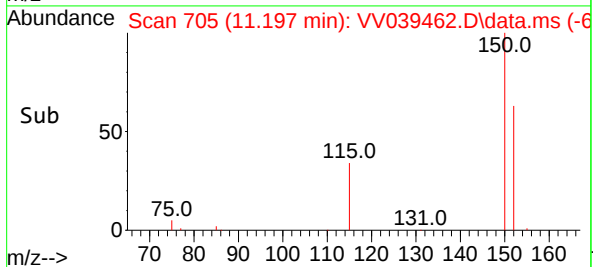
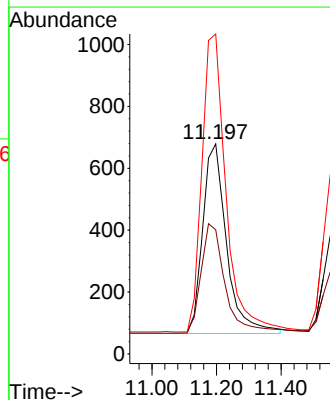
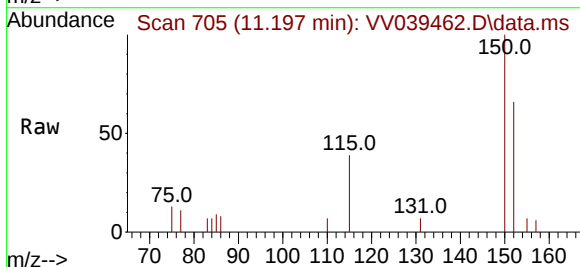
Tgt Ion: 152 Resp: 3146

Ion Ratio Lower Upper

152 100

115 55.8 0.0 101.6

150 160.1 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120525\
 Data File : VV039483.D
 Acq On : 05 Dec 2025 16:29
 Operator : SY/MD
 Sample : Q3756-12
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK001

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 22:49:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Dec 04 00:58:46 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	5671	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	5736	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	2936	0.500	ug/L	0.02

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	3377	0.592	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	118.000%
4) 1,2-Dichloroethane-d4	4.993	65	1821	0.482	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	96.000%
7) 1,2-Dichloropropane-d6	5.995	67	2072	0.428	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	86.000%
8) Toluene-d8	7.253	98	3812	0.467	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	94.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1445	0.530	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	106.000%

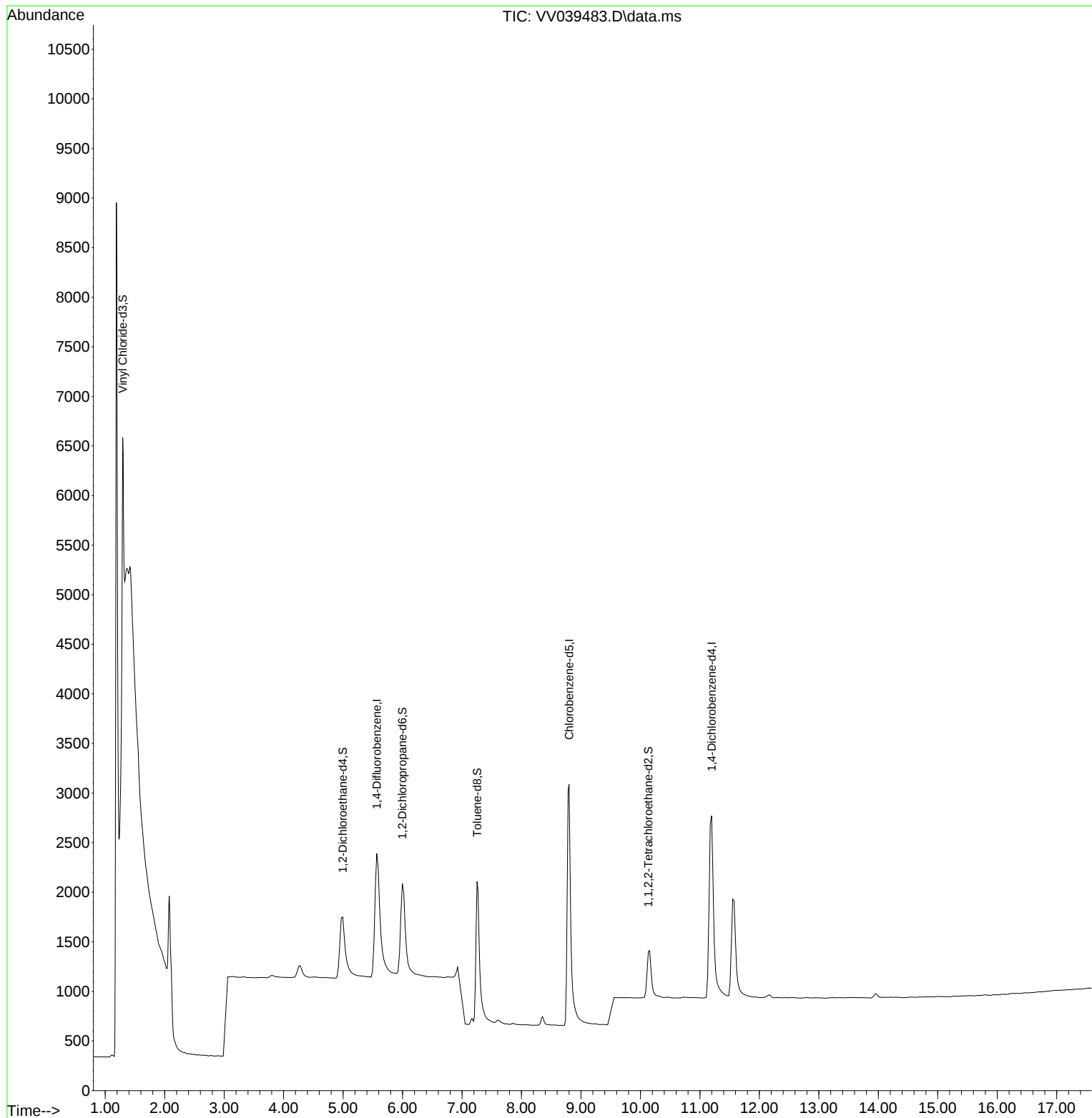
Target Compounds	Qvalue

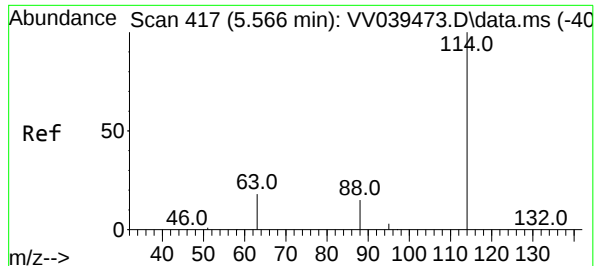
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120525\
Data File : VV039483.D
Acq On : 05 Dec 2025 16:29
Operator : SY/MD
Sample : Q3756-12
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

Quant Time: Dec 05 22:49:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

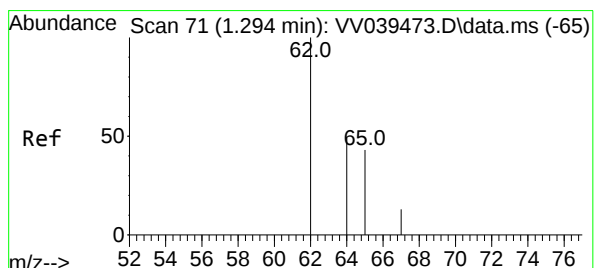
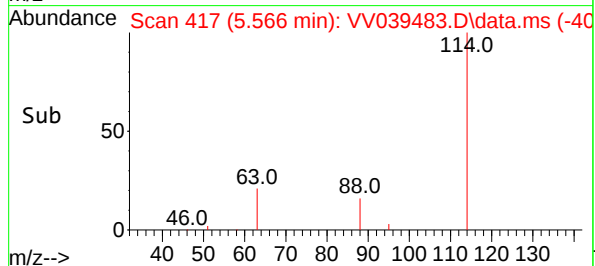
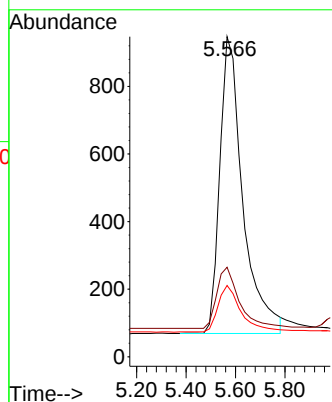
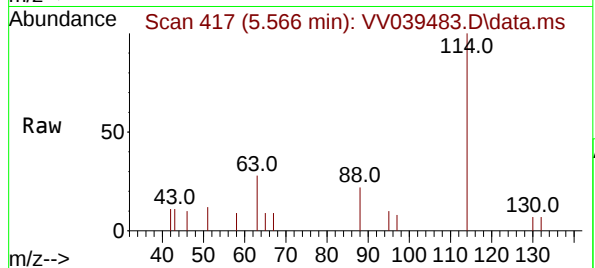




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039483.D
Acq: 05 Dec 2025 16:29

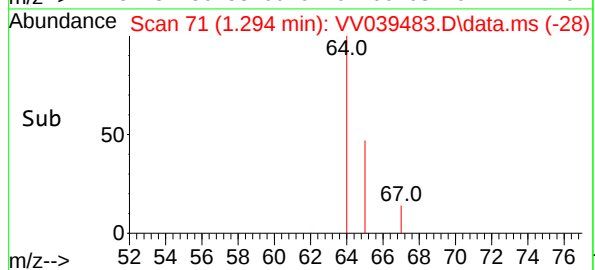
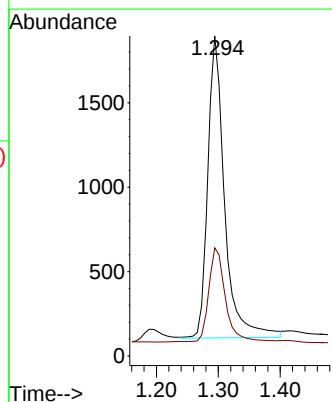
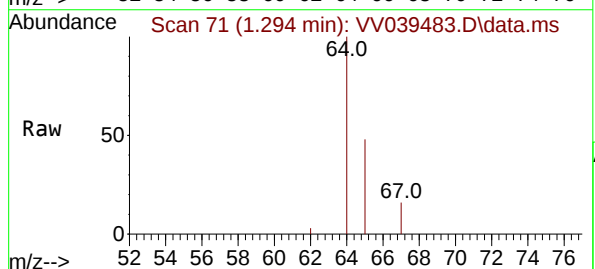
Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

Tgt Ion:	114	Resp:	5671
Ion Ratio	Lower	Upper	
114	100		
63	20.3	15.0	22.4
88	15.4	12.0	18.0

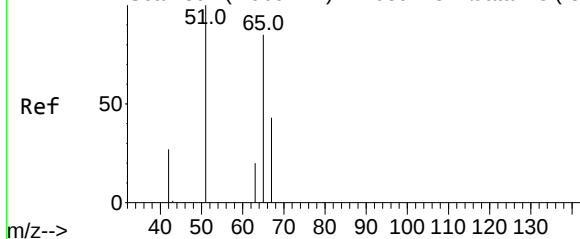


#2
Vinyl Chloride-d3
Concen: 0.592 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039483.D
Acq: 05 Dec 2025 16:29

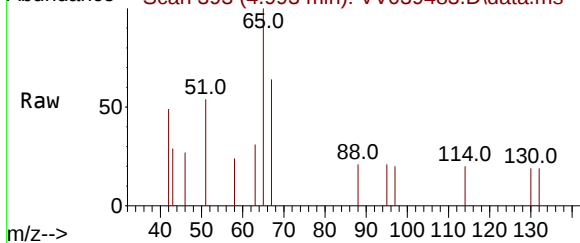
Tgt Ion:	65	Resp:	3377
Ion Ratio	Lower	Upper	
65	100		
67	31.3	22.3	41.5



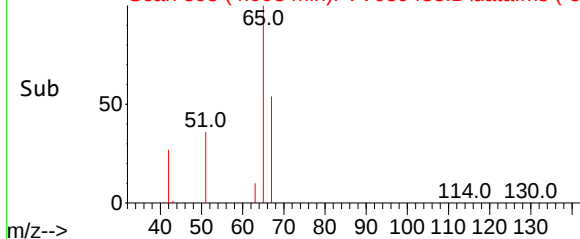
Abundance Scan 392 (4.969 min): VV039473.D\data.ms (-38



Abundance Scan 393 (4.993 min): VV039483.D\data.ms



Abundance Scan 393 (4.993 min): VV039483.D\data.ms (-37



#4

1,2-Dichloroethane-d4

Concen: 0.482 ug/L

RT: 4.993 min Scan# 393

Delta R.T. 0.024 min

Lab File: VV039483.D

Acq: 05 Dec 2025 16:29

Instrument :

MSVOA_V

ClientSampleId :

VHBLK001

Tgt Ion: 65 Resp: 1821

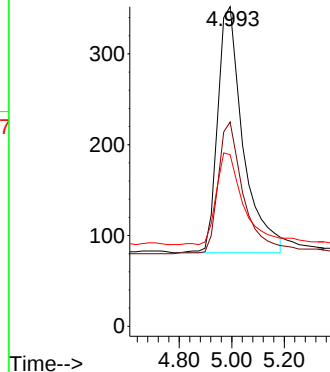
Ion Ratio Lower Upper

65 100

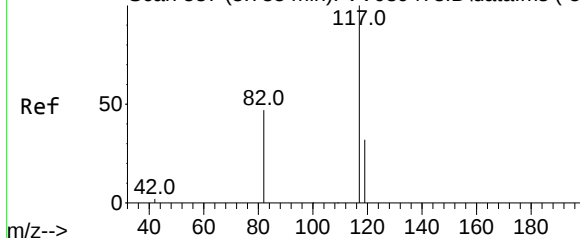
67 53.0 32.5 60.3

51 39.3 121.4 225.6#

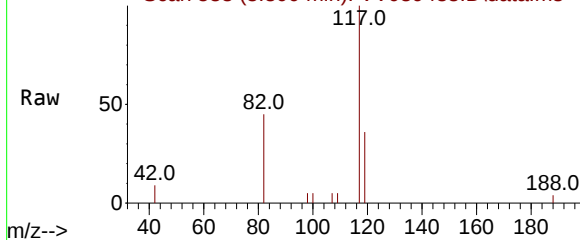
Abundance



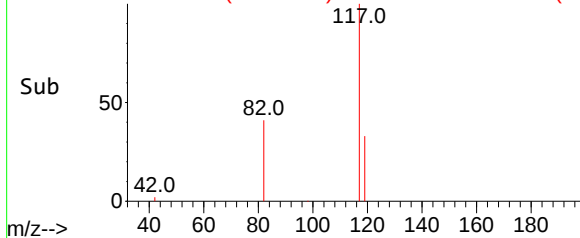
Abundance Scan 587 (8.785 min): VV039473.D\data.ms (-58



Abundance Scan 588 (8.800 min): VV039483.D\data.ms



Abundance Scan 588 (8.800 min): VV039483.D\data.ms (-56



#5

Chlorobenzene-d5

Concen: 0.500 ug/L

RT: 8.800 min Scan# 588

Delta R.T. 0.015 min

Lab File: VV039483.D

Acq: 05 Dec 2025 16:29

Tgt Ion: 117 Resp: 5736

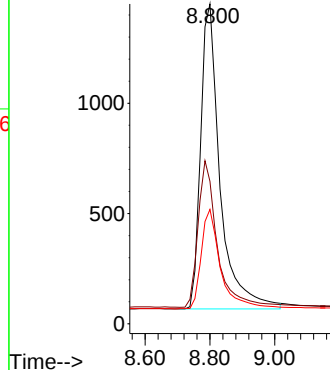
Ion Ratio Lower Upper

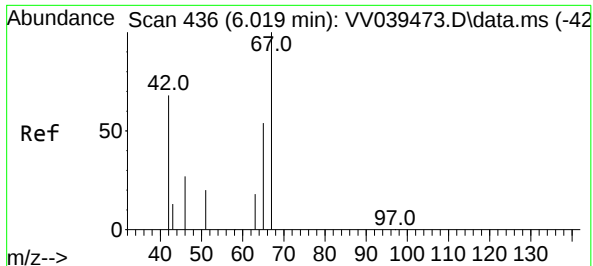
117 100

82 47.9 39.4 59.2

119 32.7 26.2 39.2

Abundance

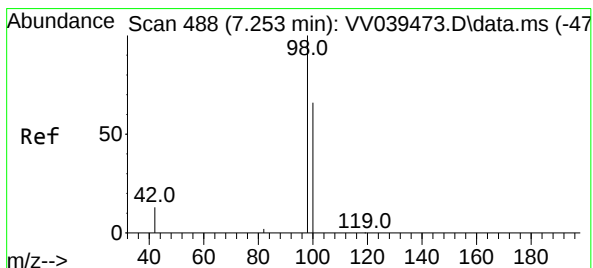
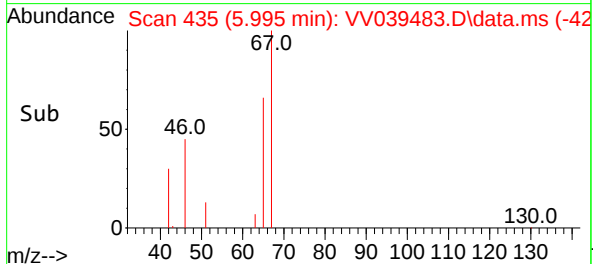
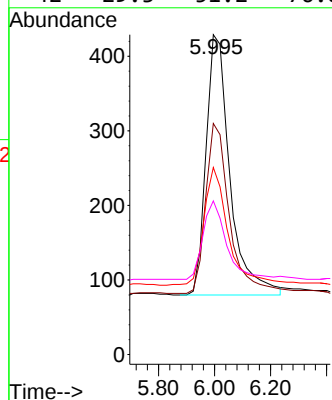
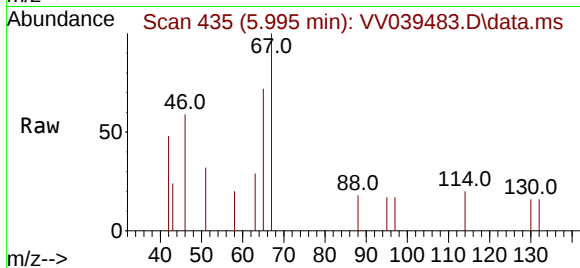




#7
1,2-Dichloropropane-d6
Concen: 0.428 ug/L
RT: 5.995 min Scan# 41
Delta R.T. -0.024 min
Lab File: VV039483.D
Acq: 05 Dec 2025 16:29

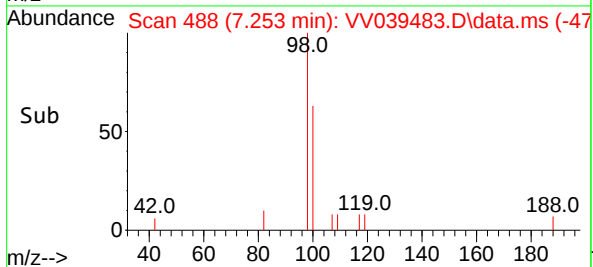
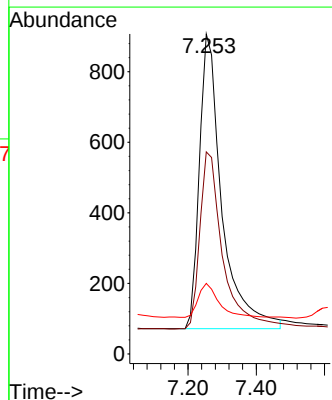
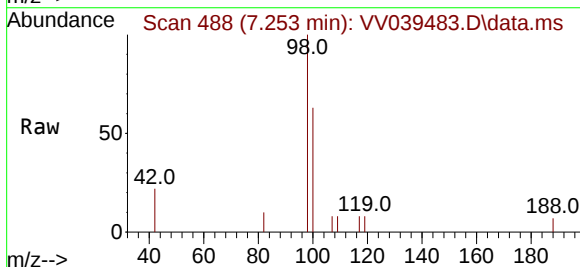
Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

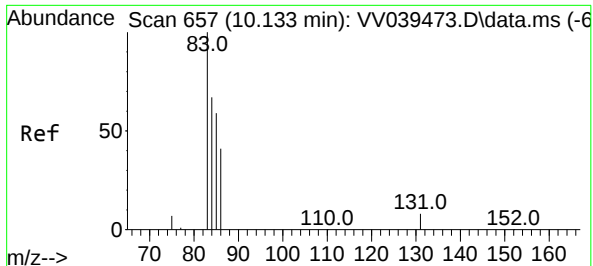
Tgt Ion:	67	Resp:	2072
Ion	Ratio	Lower	Upper
67	100		
65	64.7	37.9	56.9#
46	45.7	27.4	41.0#
42	29.3	51.2	76.8#



#8
Toluene-d8
Concen: 0.467 ug/L
RT: 7.253 min Scan# 488
Delta R.T. 0.015 min
Lab File: VV039483.D
Acq: 05 Dec 2025 16:29

Tgt Ion:	98	Resp:	3812
Ion	Ratio	Lower	Upper
98	100		
100	61.1	44.5	82.7
42	10.5	10.1	18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.530 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039483.D

Acq: 05 Dec 2025 16:29

Instrument :

MSVOA_V

ClientSampleId :

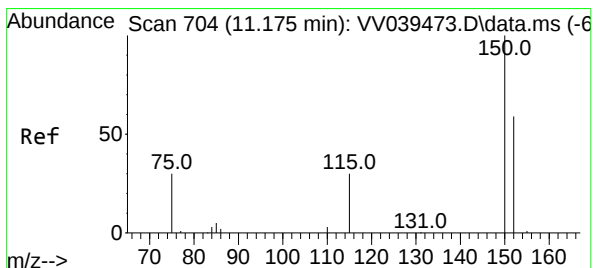
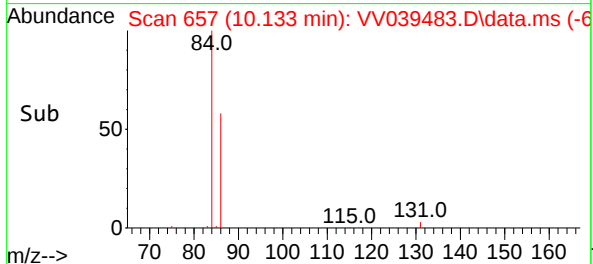
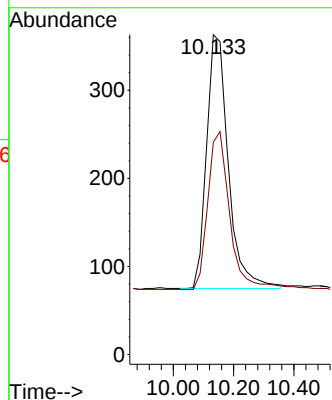
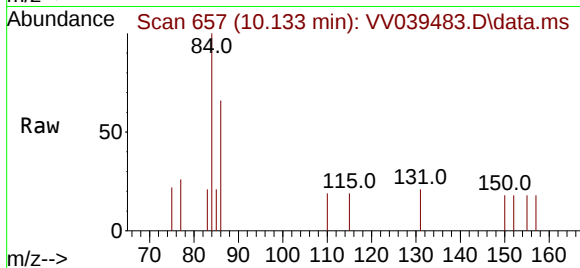
VHBLK001

Tgt Ion: 84 Resp: 1445

Ion Ratio Lower Upper

84 100

86 62.1 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039483.D

Acq: 05 Dec 2025 16:29

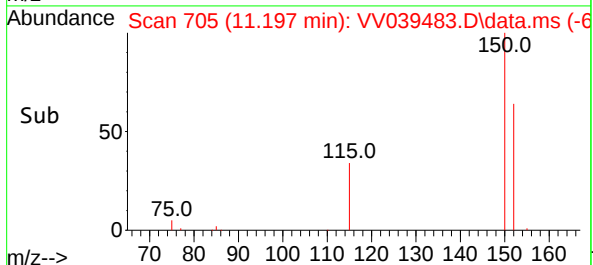
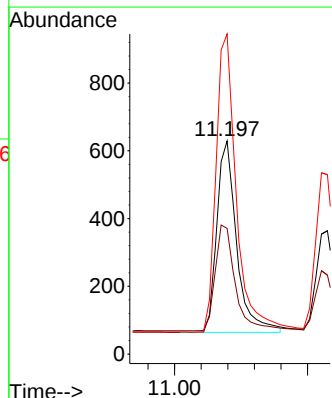
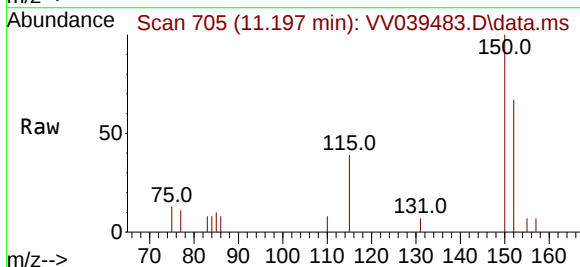
Tgt Ion:152 Resp: 2936

Ion Ratio Lower Upper

152 100

115 55.2 0.0 101.6

150 158.1 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039459.D
Acq On : 04 Dec 2025 10:15
Operator : SY/MD
Sample : VV1204WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK235

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 05 00:08:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	7074	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.785	117	6633	0.500	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	11.198	152	3409	0.500	ug/L	0.02

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.295	65	3577	0.503	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	100.000%
4) 1,2-Dichloroethane-d4	4.970	65	1966	0.417	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	84.000%
7) 1,2-Dichloropropane-d6	5.996	67	2213	0.395	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	80.000%
8) Toluene-d8	7.254	98	4285	0.454	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	90.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1572	0.498	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	100.000%

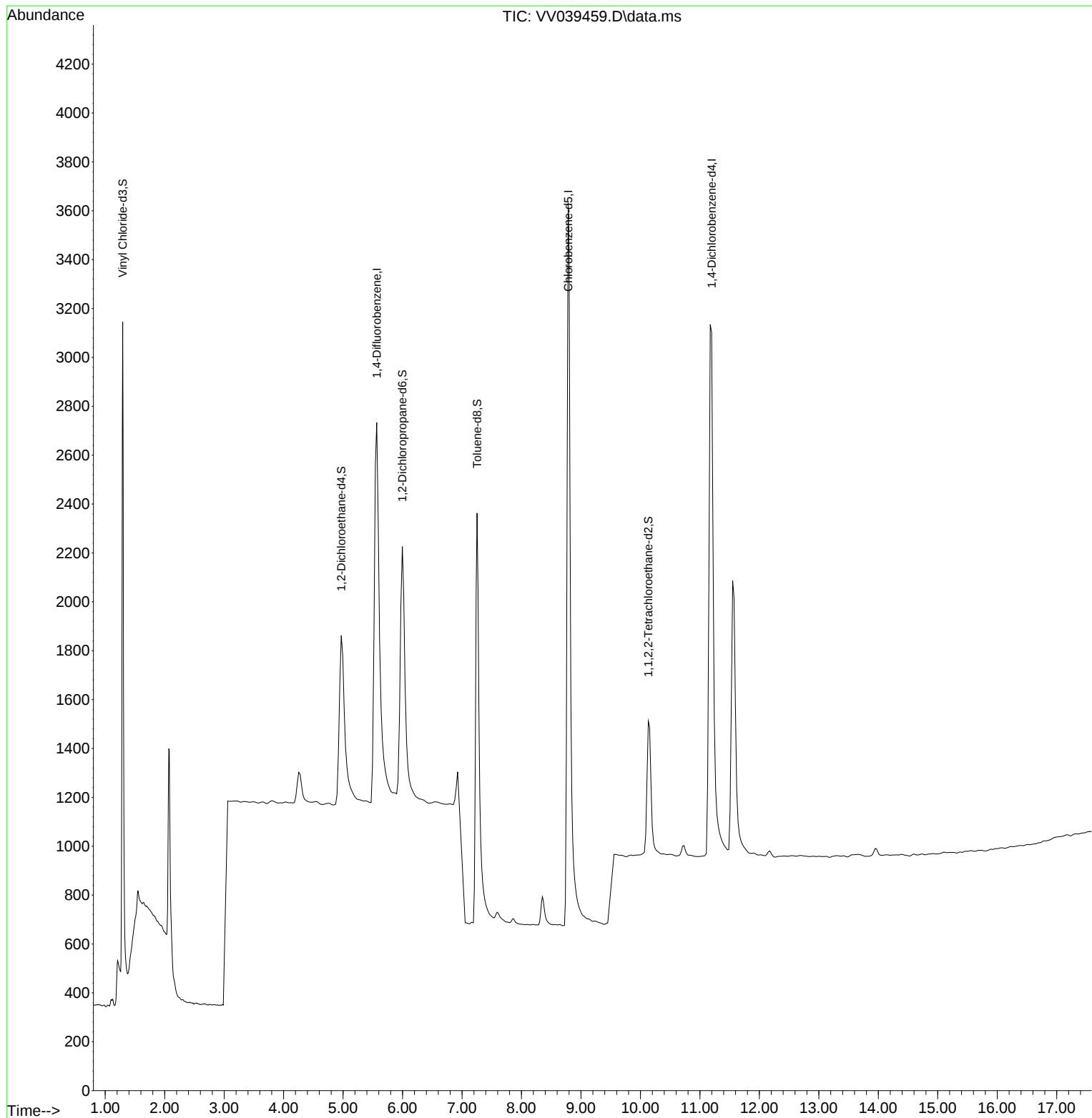
Target Compounds	Qvalue

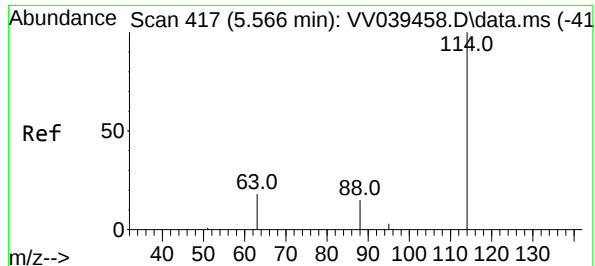
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120425\
Data File : VV039459.D
Acq On : 04 Dec 2025 10:15
Operator : SY/MD
Sample : VV1204WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK235

Quant Time: Dec 05 00:08:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

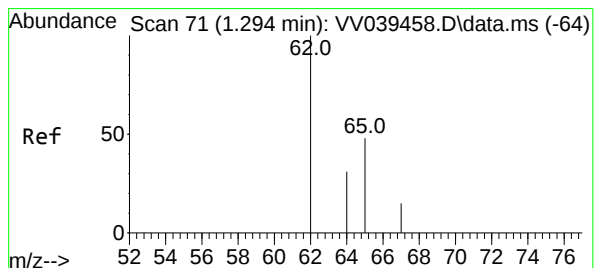
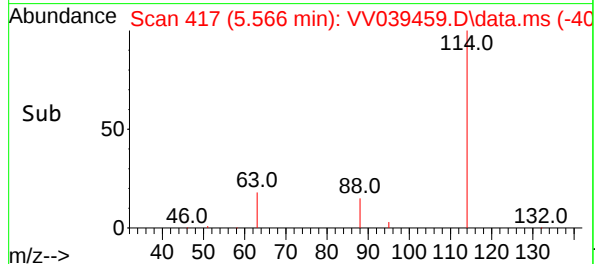
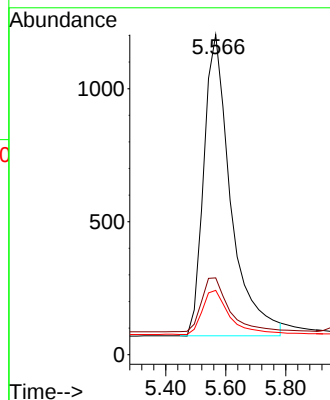
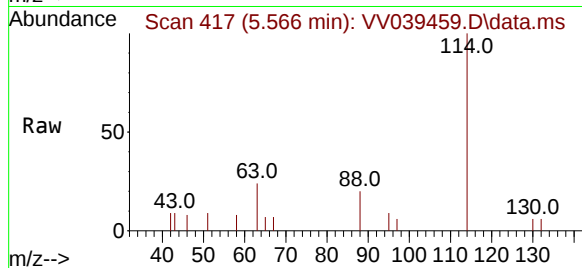




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 41
Delta R.T. 0.000 min
Lab File: VV039459.D
Acq: 04 Dec 2025 10:15

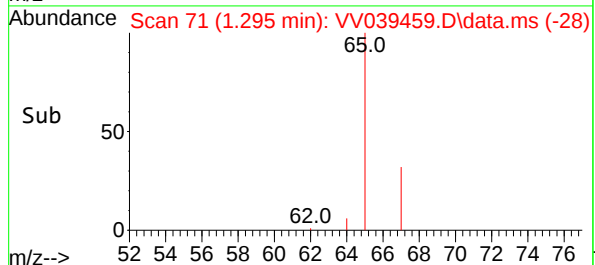
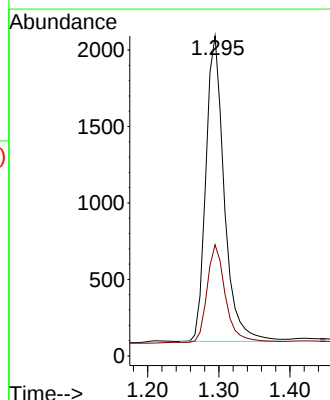
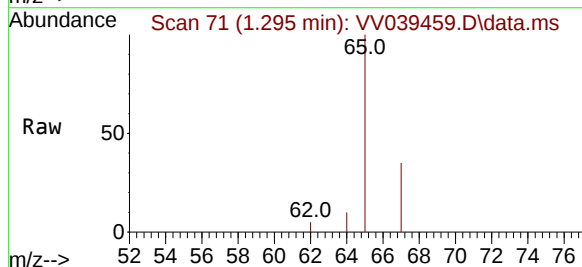
Instrument :
MSVOA_V
ClientSampleId :
VBLK235

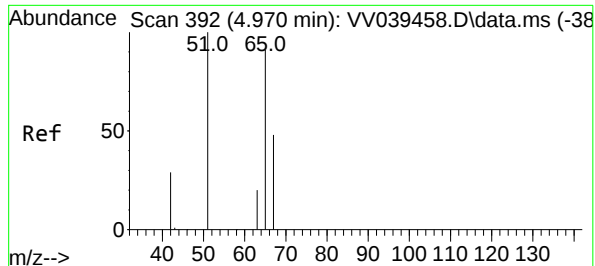
Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.3	15.0	22.4
88	14.8	12.0	18.0



#2
Vinyl Chloride-d3
Concen: 0.503 ug/L
RT: 1.295 min Scan# 71
Delta R.T. 0.001 min
Lab File: VV039459.D
Acq: 04 Dec 2025 10:15

Tgt Ion	Ratio	Lower	Upper
65	100		
67	33.3	22.3	41.5

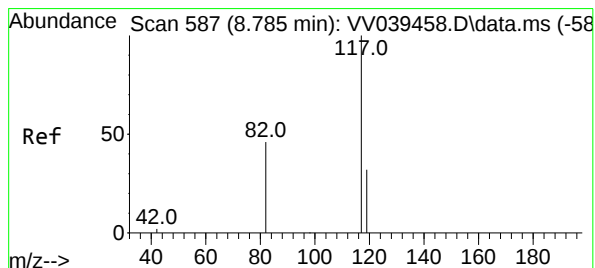
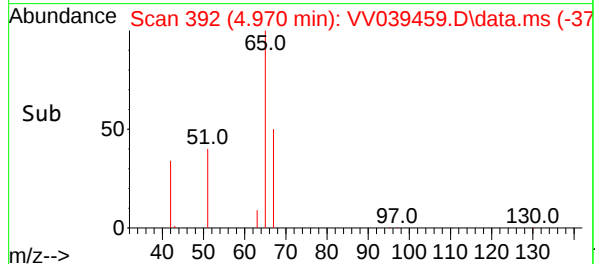
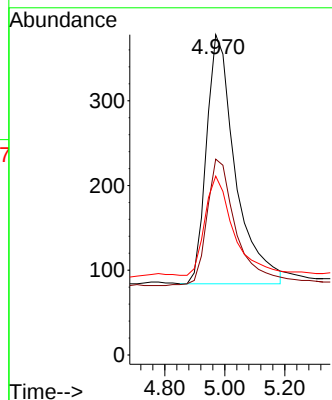
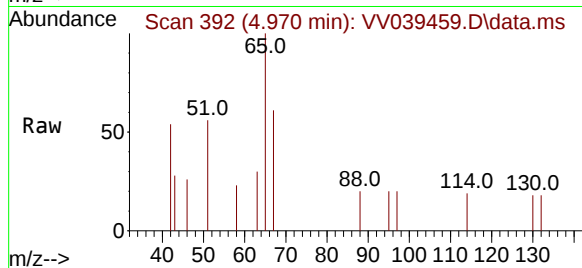




#4
1,2-Dichloroethane-d4
Concen: 0.417 ug/L
RT: 4.970 min Scan# 392
Delta R.T. 0.001 min
Lab File: VV039459.D
Acq: 04 Dec 2025 10:15

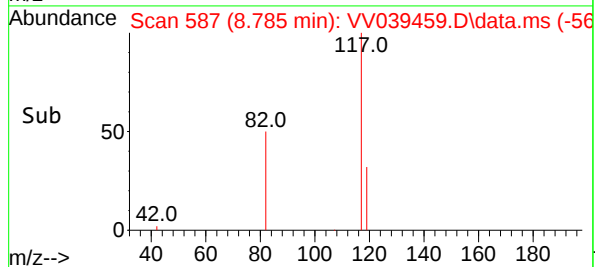
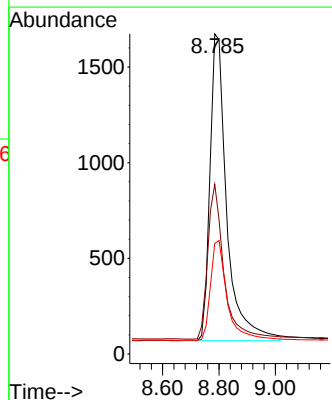
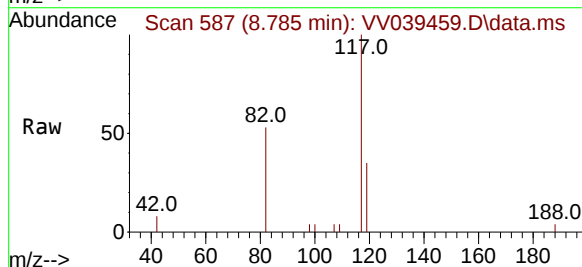
Instrument :
MSVOA_V
ClientSampleId :
VBLK235

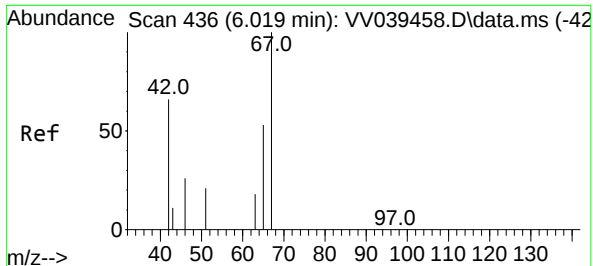
Tgt Ion: 65 Resp: 1966
Ion Ratio Lower Upper
65 100
67 51.6 32.5 60.3
51 39.3 121.4 225.6#



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.785 min Scan# 587
Delta R.T. 0.000 min
Lab File: VV039459.D
Acq: 04 Dec 2025 10:15

Tgt Ion: 117 Resp: 6633
Ion Ratio Lower Upper
117 100
82 48.9 39.4 59.2
119 32.4 26.2 39.2

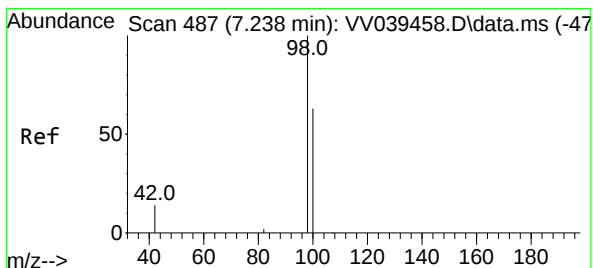
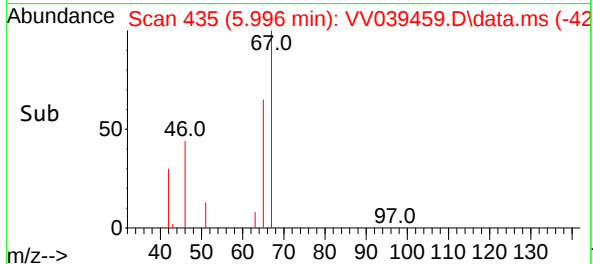
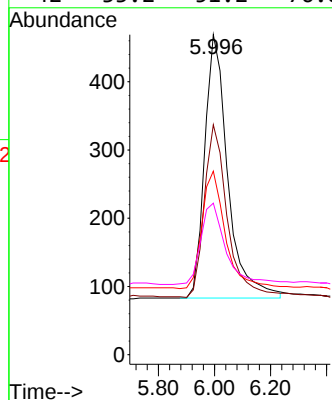
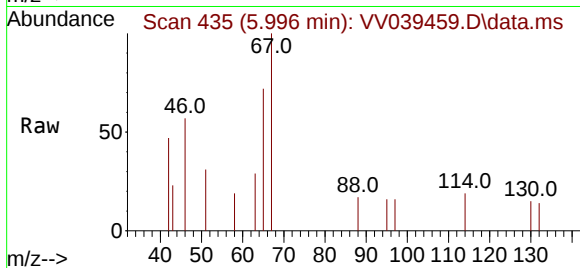




#7
 1,2-Dichloropropane-d6
 Concen: 0.395 ug/L
 RT: 5.996 min Scan# 41
 Delta R.T. -0.023 min
 Lab File: VV039459.D
 Acq: 04 Dec 2025 10:15

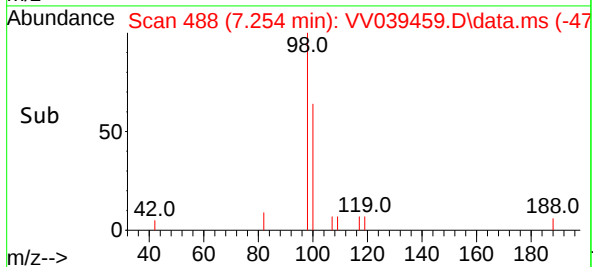
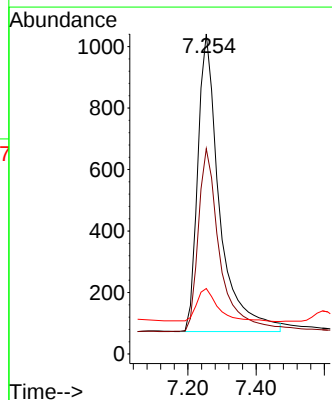
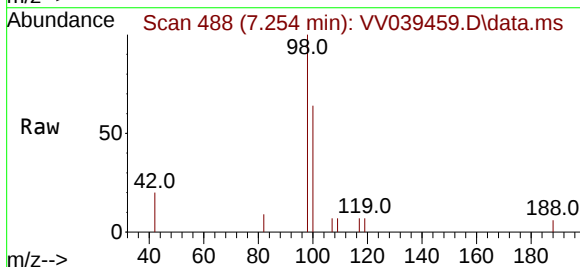
Instrument :
 MSVOA_V
 ClientSampleId :
 VBLK235

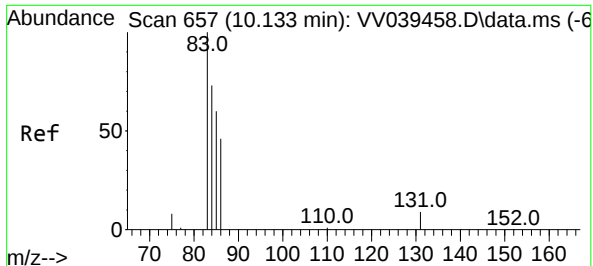
Tgt Ion:	67	Resp:	2213
Ion	Ratio	Lower	Upper
67	100		
65	64.5	37.9	56.9#
46	45.1	27.4	41.0#
42	33.2	51.2	76.8#



#8
 Toluene-d8
 Concen: 0.454 ug/L
 RT: 7.254 min Scan# 488
 Delta R.T. 0.016 min
 Lab File: VV039459.D
 Acq: 04 Dec 2025 10:15

Tgt Ion:	98	Resp:	4285
Ion	Ratio	Lower	Upper
98	100		
100	60.7	44.5	82.7
42	10.8	10.1	18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.498 ug/L

RT: 10.133 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV039459.D

Acq: 04 Dec 2025 10:15

Instrument :

MSVOA_V

ClientSampleId :

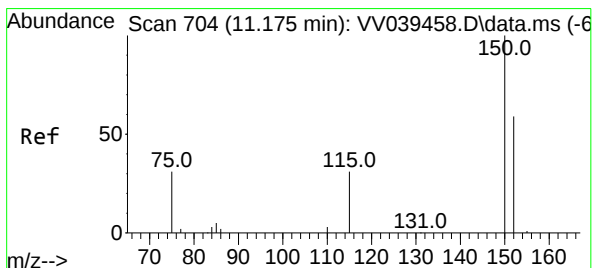
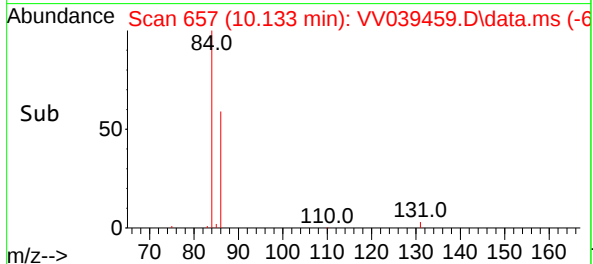
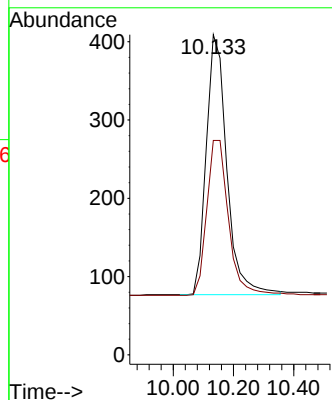
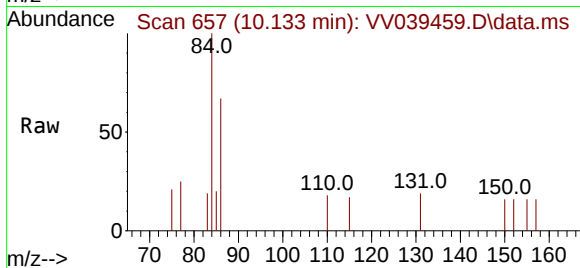
VBLK235

Tgt Ion: 84 Resp: 1572

Ion Ratio Lower Upper

84 100

86 62.9 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.198 min Scan# 705

Delta R.T. 0.023 min

Lab File: VV039459.D

Acq: 04 Dec 2025 10:15

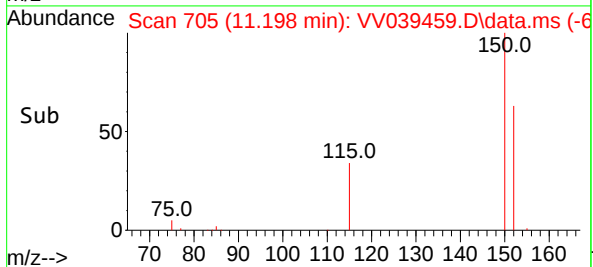
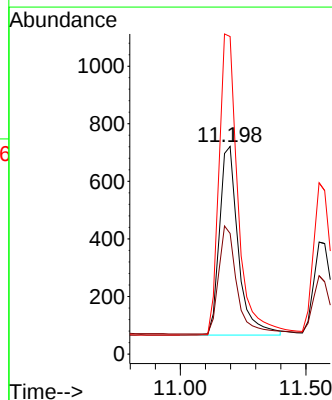
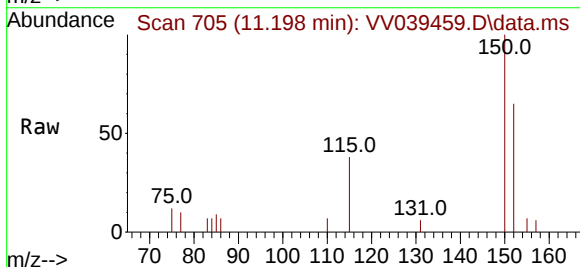
Tgt Ion:152 Resp: 3409

Ion Ratio Lower Upper

152 100

115 55.1 0.0 101.6

150 160.1 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120525\
Data File : VV039474.D
Acq On : 05 Dec 2025 12:30
Operator : SY/MD
Sample : VV1205WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK236

A
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Quant Time: Dec 05 22:47:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	5971	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	5907	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3034	0.500	ug/L	0.02

System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	3423	0.570	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	114.000%
4) 1,2-Dichloroethane-d4	4.993	65	1812	0.456	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	92.000%
7) 1,2-Dichloropropane-d6	5.996	67	2120	0.425	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	86.000%
8) Toluene-d8	7.254	98	4006	0.476	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	96.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1520	0.541	ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	=	108.000%

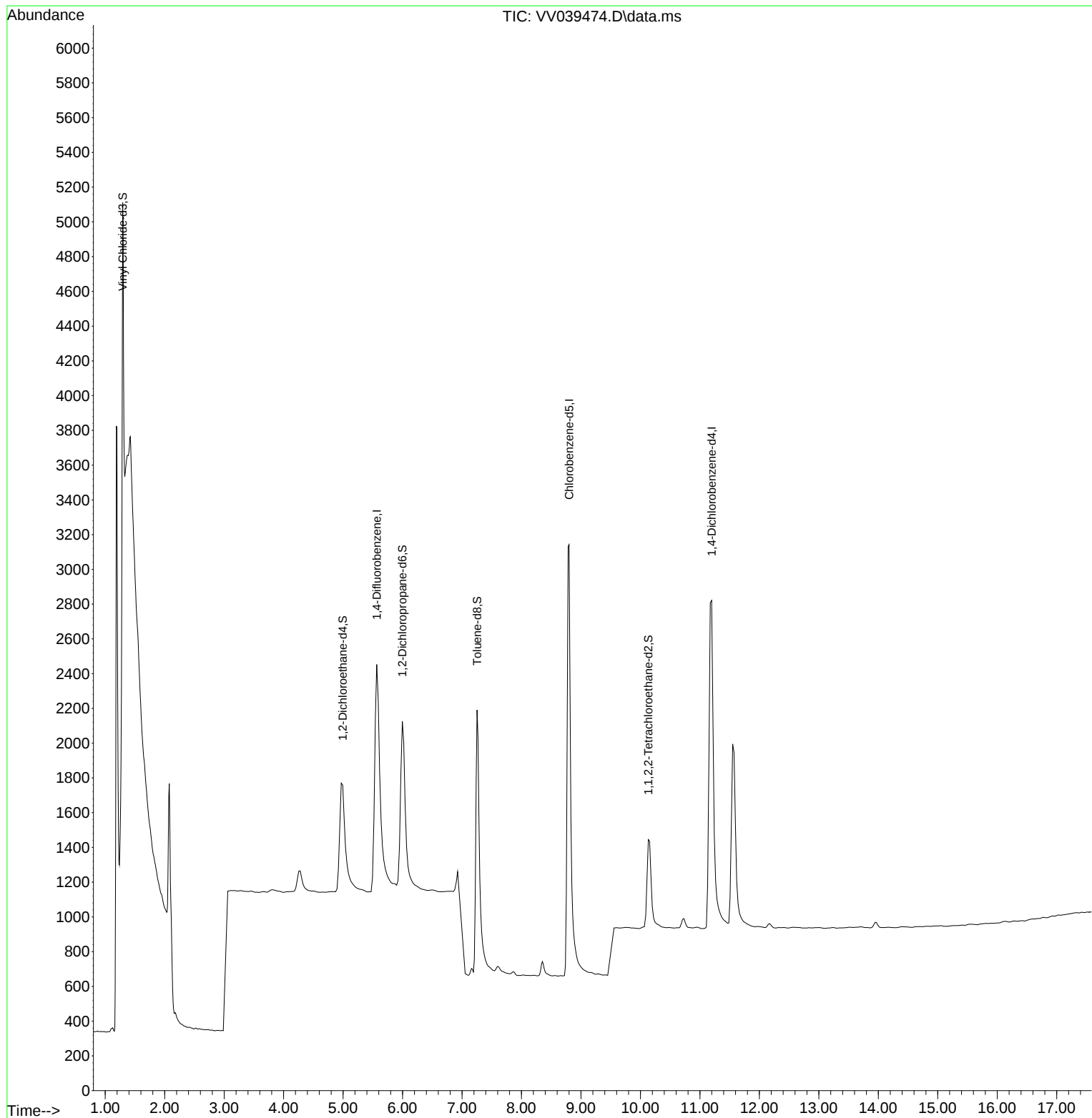
Target Compounds	Qvalue

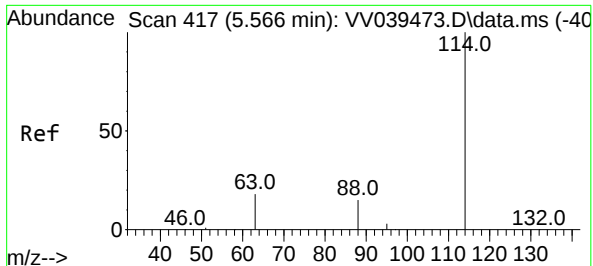
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV120525\
Data File : VV039474.D
Acq On : 05 Dec 2025 12:30
Operator : SY/MD
Sample : VV1205WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK236

Quant Time: Dec 05 22:47:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Dec 04 00:58:46 2025
Response via : Initial Calibration

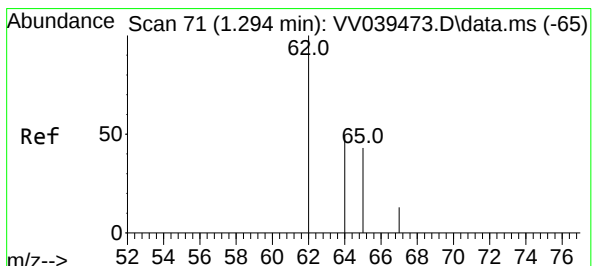
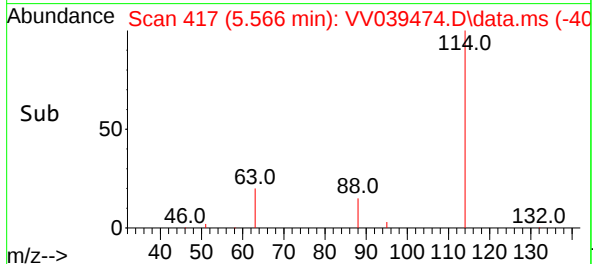
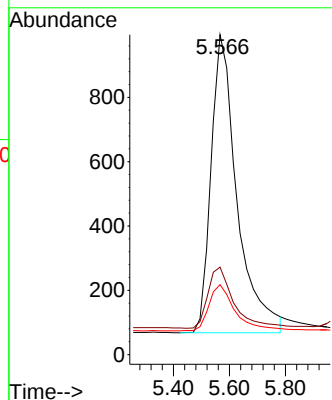
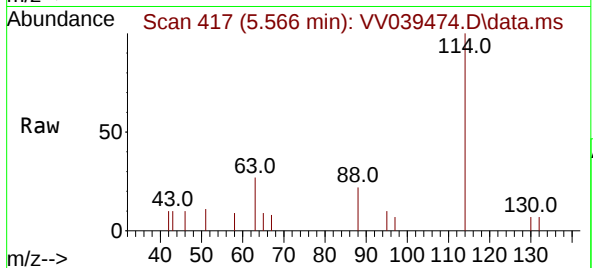




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. 0.000 min
Lab File: VV039474.D
Acq: 05 Dec 2025 12:30

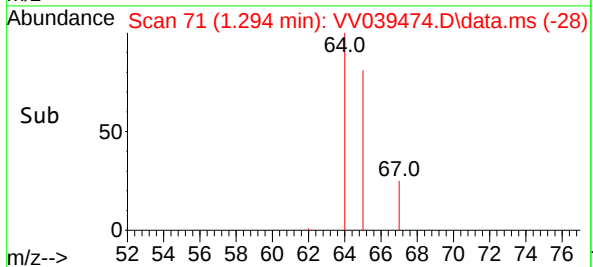
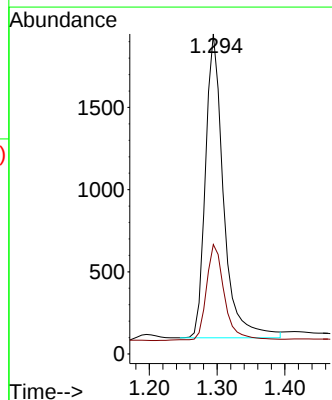
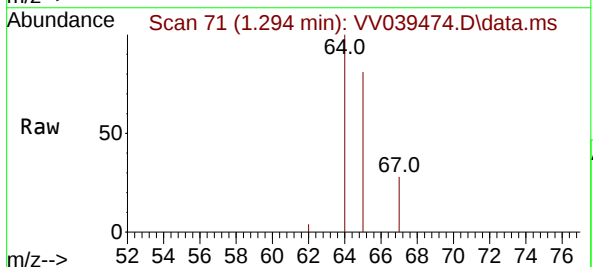
Instrument :
MSVOA_V
ClientSampleId :
VBLK236

Tgt Ion:	114	Resp:	5971
Ion	Ratio	Lower	Upper
114	100		
63	20.4	15.0	22.4
88	15.5	12.0	18.0

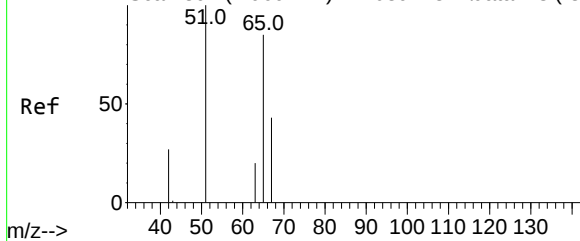


#2
Vinyl Chloride-d3
Concen: 0.570 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039474.D
Acq: 05 Dec 2025 12:30

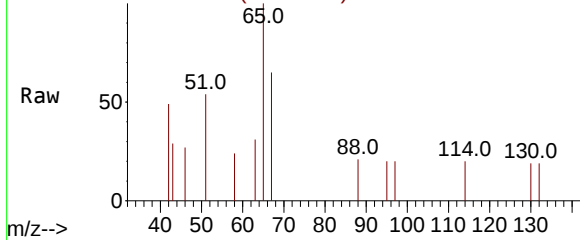
Tgt Ion:	65	Resp:	3423
Ion	Ratio	Lower	Upper
65	100		
67	32.0	22.3	41.5



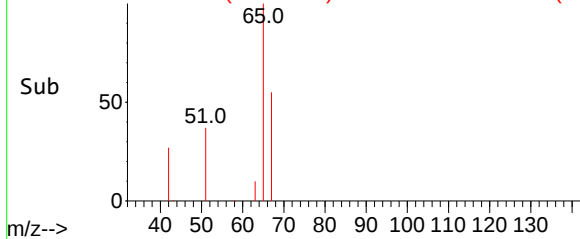
Abundance Scan 392 (4.969 min): VV039473.D\data.ms (-38



Abundance Scan 393 (4.993 min): VV039474.D\data.ms



Abundance Scan 393 (4.993 min): VV039474.D\data.ms (-37



#4

1,2-Dichloroethane-d4

Concen: 0.456 ug/L

RT: 4.993 min Scan# 393

Delta R.T. 0.024 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

Instrument :

MSVOA_V

ClientSampleId :

VBLK236

Tgt Ion: 65 Resp: 1812

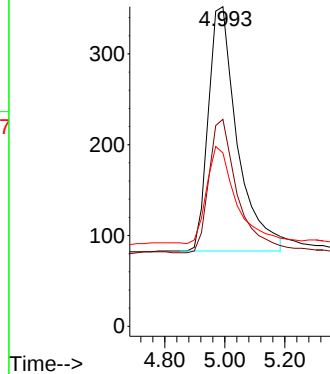
Ion Ratio Lower Upper

65 100

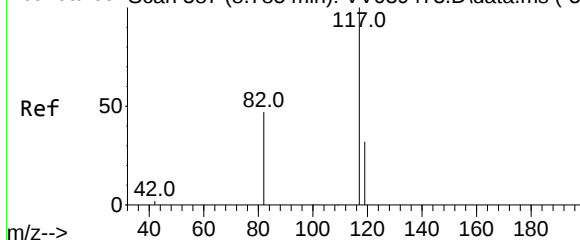
67 53.8 32.5 60.3

51 39.2 121.4 225.6#

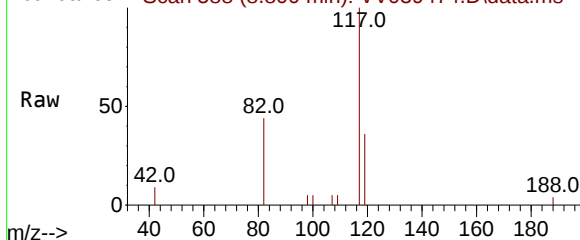
Abundance



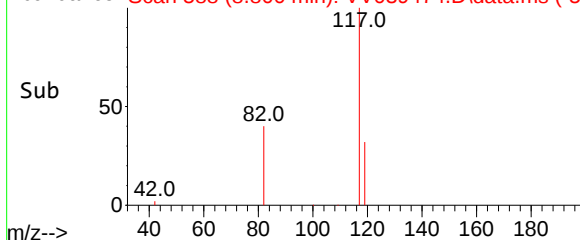
Abundance Scan 587 (8.785 min): VV039473.D\data.ms (-58



Abundance Scan 588 (8.800 min): VV039474.D\data.ms



Abundance Scan 588 (8.800 min): VV039474.D\data.ms (-56



#5

Chlorobenzene-d5

Concen: 0.500 ug/L

RT: 8.800 min Scan# 588

Delta R.T. 0.016 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

Tgt Ion: 117 Resp: 5907

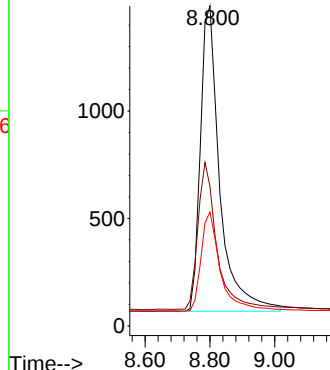
Ion Ratio Lower Upper

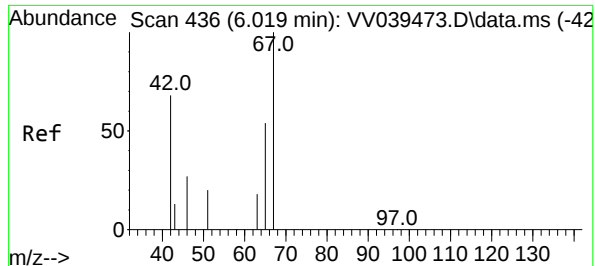
117 100

82 47.1 39.4 59.2

119 32.1 26.2 39.2

Abundance





#7

1,2-Dichloropropane-d6

Concen: 0.425 ug/L

RT: 5.996 min Scan# 41

Delta R.T. -0.023 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

Instrument :

MSVOA_V

ClientSampleId :

VBLK236

Tgt Ion: 67 Resp: 2120

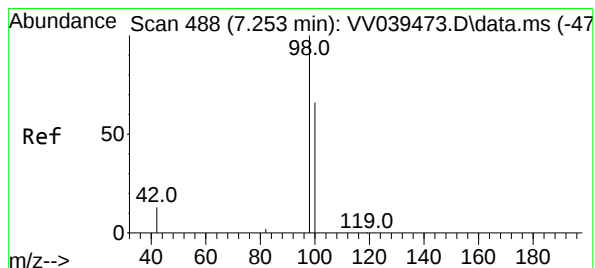
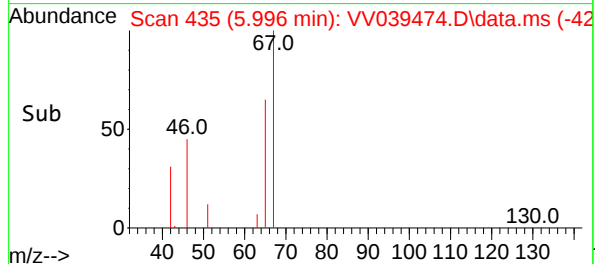
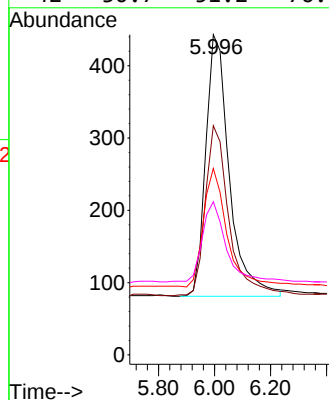
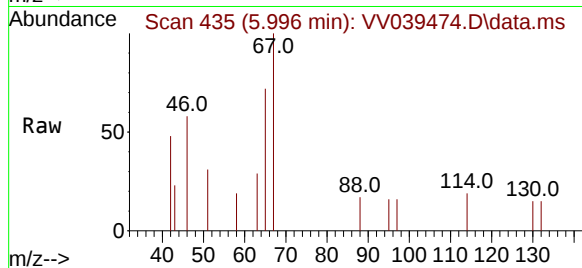
Ion Ratio Lower Upper

67 100

65 64.8 37.9 56.9#

46 44.4 27.4 41.0#

42 30.7 51.2 76.8#



#8

Toluene-d8

Concen: 0.476 ug/L

RT: 7.254 min Scan# 488

Delta R.T. 0.016 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

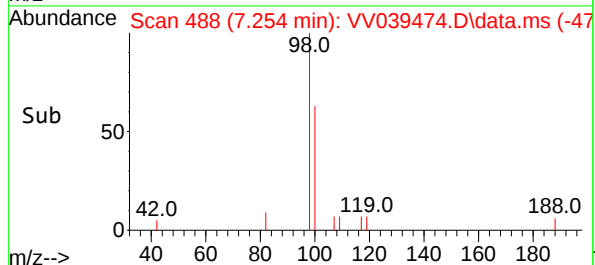
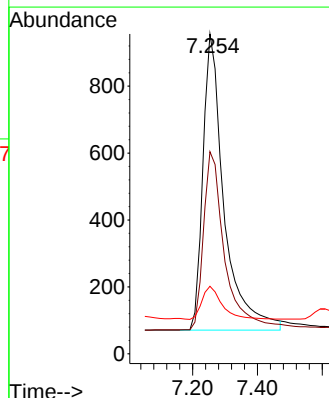
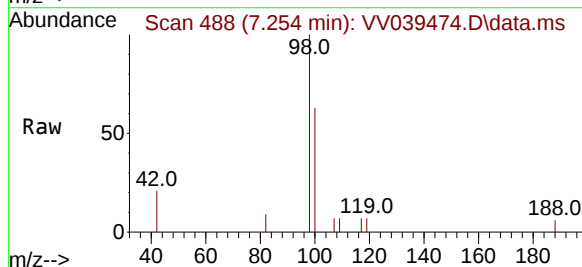
Tgt Ion: 98 Resp: 4006

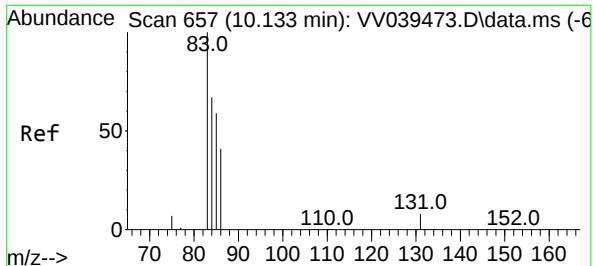
Ion Ratio Lower Upper

98 100

100 60.3 44.5 82.7

42 10.6 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.541 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

Instrument :

MSVOA_V

ClientSampleId :

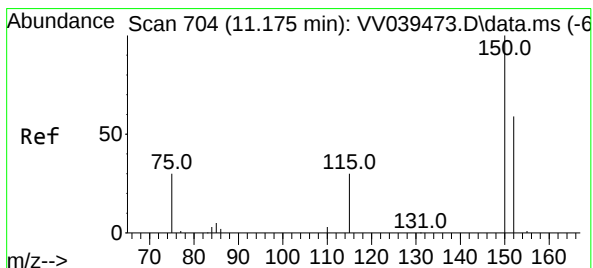
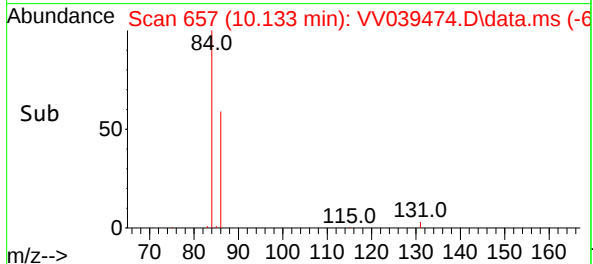
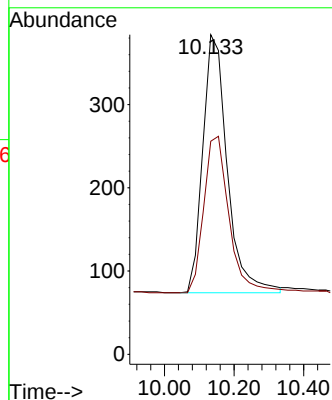
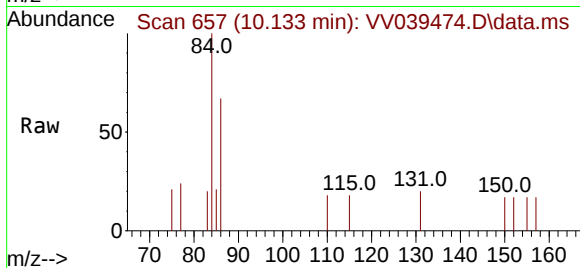
VBLK236

Tgt Ion: 84 Resp: 1520

Ion Ratio Lower Upper

84 100

86 62.5 44.4 82.5



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039474.D

Acq: 05 Dec 2025 12:30

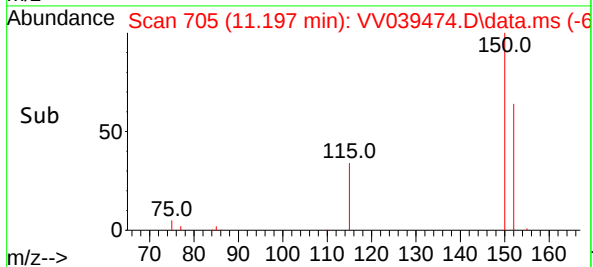
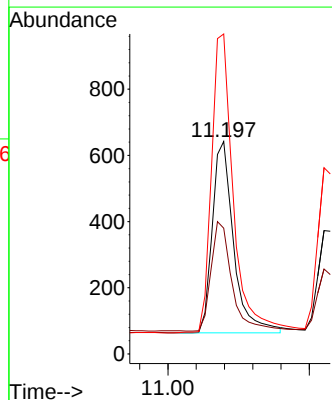
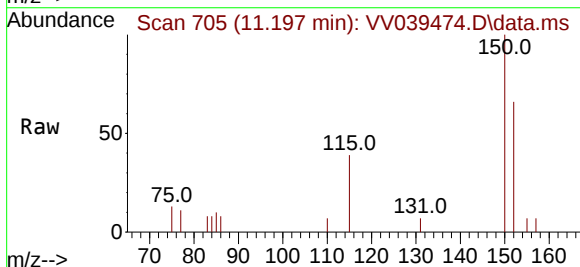
Tgt Ion: 152 Resp: 3034

Ion Ratio Lower Upper

152 100

115 55.8 0.0 101.6

150 158.4 0.0 396.2





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Manual Integration Report

Sequence:	VV120325	Instrument	MSVOA_v
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Manual Integration Report

Sequence:	VV120425	Instrument	MSVOA_v
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3756-06	VV039464.D	Vinyl Chloride-d3	JOHN	12/10/2025 9:00:21 AM	MMDadoda	12/10/2025 9:15:11 AM	Peak Integrated by Software
Q3756-08	VV039465.D	Vinyl Chloride-d3	JOHN	12/10/2025 9:00:25 AM	MMDadoda	12/10/2025 9:15:15 AM	Peak Integrated by Software
Q3756-02RE	VV039468.D	Vinyl Chloride-d3	JOHN	12/10/2025 9:00:41 AM	MMDadoda	12/10/2025 9:15:31 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VV120525

Instrument

MSVOA_v

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QCBatch ID # VV120325

Review By	John Carlone	Review On	12/4/2025 8:40:56 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:13:50 PM		
SubDirectory	VV120325	HP Acquire Method	MSVOA_V	HP Processing Method	SFAMVSIM120325MA.M
STD. NAME	STD REF.#				
Tune/Reschk	VP136558				
Initial Calibration Stds	VP136546,VP136547,VP136548,VP136549,VP136550,VP136551,				
CCC	VP136553				
Internal Standard/PEM	VP135611				
ICV/I.BLK	VP136552				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB244	VV039444.D	03 Dec 2025 09:23	SY/MD	Ok
2	VSTD0.0269	VV039445.D	03 Dec 2025 09:55	SY/MD	Ok
3	VSTD0.0570	VV039446.D	03 Dec 2025 10:32	SY/MD	Ok
4	VSTD0.171	VV039447.D	03 Dec 2025 10:58	SY/MD	Ok
5	VSTD0.572	VV039448.D	03 Dec 2025 11:25	SY/MD	Ok
6	VSTD00173	VV039449.D	03 Dec 2025 11:52	SY/MD	Ok
7	VSTD00274	VV039450.D	03 Dec 2025 12:18	SY/MD	Ok
8	VSTDICV0.5	VV039451.D	03 Dec 2025 12:56	SY/MD	Ok
9	VV1203WBL01	VV039452.D	03 Dec 2025 13:50	SY/MD	Ok
10	Q3743-05	VV039453.D	03 Dec 2025 14:42	SY/MD	Ok
11	Q3743-01	VV039454.D	03 Dec 2025 15:03	SY/MD	Ok
12	Q3743-02	VV039455.D	03 Dec 2025 15:24	SY/MD	Ok
13	VSTDCCC0.5EC	VV039456.D	03 Dec 2025 15:59	SY/MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QC Batch ID # VV120425

Review By	John Carlone	Review On	12/5/2025 11:05:05 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/7/2025 10:23:47 PM		
SubDirectory	VV120425	HP Acquire Method	MSVOA_V	HP Processing Method	SFAMVSIM120325MA.M
STD. NAME	STD REF.#				
Tune/Reschk	VP136559				
Initial Calibration Stds	VP136546,VP136547,VP136548,VP136549,VP136550,VP136551				
CCC	VP136554,VP136555				
Internal Standard/PEM	VP135611				
ICV/I.BLK	VP136552				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB245	VV039457.D	04 Dec 2025 09:08	SY/MD	Ok
2	VSTDCCC0.5	VV039458.D	04 Dec 2025 09:42	SY/MD	Ok
3	VV1204WBL01	VV039459.D	04 Dec 2025 10:15	SY/MD	Ok
4	Q3756-02	VV039460.D	04 Dec 2025 11:17	SY/MD	Ok
5	Q3756-09	VV039461.D	04 Dec 2025 11:39	SY/MD	Ok
6	Q3756-10	VV039462.D	04 Dec 2025 12:00	SY/MD	Ok
7	Q3756-04	VV039463.D	04 Dec 2025 12:21	SY/MD	Not Ok
8	Q3756-06	VV039464.D	04 Dec 2025 12:42	SY/MD	Ok,M
9	Q3756-08	VV039465.D	04 Dec 2025 13:03	SY/MD	Ok,M
10	VIBLK228	VV039466.D	04 Dec 2025 13:40	SY/MD	Ok,M
11	Q3756-04DL	VV039467.D	04 Dec 2025 14:01	SY/MD	Not Ok
12	Q3756-02RE	VV039468.D	04 Dec 2025 15:03	SY/MD	Confirms
13	VIBLK229	VV039469.D	04 Dec 2025 15:24	SY/MD	Ok,M
14	Q3756-12	VV039470.D	04 Dec 2025 15:45	SY/MD	Not Ok
15	VSTDCCC0.5EC	VV039471.D	04 Dec 2025 16:56	SY/MD	Ok

M : Manual Integration

Instrument ID: **MSVOA_V**

Daily Analysis Runlog For Sequence/QC Batch ID # VV120525

Review By	Semsettin Yesilyurt	Review On	12/7/2025 10:27:36 PM		
Supervise By	Mahesh Dadoda	Supervise On	12/8/2025 7:48:16 AM		
SubDirectory	VV120525	HP Acquire Method	MSVOA_V	HP Processing Method	SFAMVSIM120325MA.M
STD. NAME		STD REF.#			
Tune/Reschk Initial Calibration Stds		VP136560			
CCC		VP136556,VP136557			
Internal Standard/PEM		VP136511			
ICV/I.BLK					
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB246	VV039472.D	05 Dec 2025 10:46	SY/MD	Ok
2	VSTDCCC0.5	VV039473.D	05 Dec 2025 11:47	SY/MD	Ok
3	VV1205WBL01	VV039474.D	05 Dec 2025 12:30	SY/MD	Ok
4	Q3757-02	VV039475.D	05 Dec 2025 13:16	SY/MD	ReRun
5	Q3757-06	VV039476.D	05 Dec 2025 13:37	SY/MD	ReRun
6	Q3757-08	VV039477.D	05 Dec 2025 14:16	SY/MD	Ok
7	Q3757-12	VV039478.D	05 Dec 2025 14:37	SY/MD	Ok
8	Q3757-04	VV039479.D	05 Dec 2025 14:59	SY/MD	Not Ok
9	VIBLK230	VV039480.D	05 Dec 2025 15:20	SY/MD	Ok
10	Q3757-10	VV039481.D	05 Dec 2025 15:47	SY/MD	Ok
11	Q3743-05	VV039482.D	05 Dec 2025 16:08	SY/MD	Not Ok
12	Q3756-12	VV039483.D	05 Dec 2025 16:29	SY/MD	Ok
13	VSTDCCC0.5EC	VV039484.D	05 Dec 2025 16:50	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV120325

Review By	John Carlone	Review On	12/4/2025 8:40:56 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/5/2025 2:13:50 PM
SubDirectory	VV120325	HP Acquire Method	MSVOA_V
		HP Processing Method	SFAMVSIM120325MA.M

STD. NAME	STD REF.#
Tune/Reschk	VP136558
Initial Calibration Stds	VP136546,VP136547,VP136548,VP136549,VP136550,VP136551,
CCC	VP136553
Internal Standard/PEM	VP135611
ICV/I.BLK	VP136552
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB244	BFB244	VV039444.D	03 Dec 2025 09:23		SY/MD	Ok
2	VSTD0.0269	VSTD0.02269	VV039445.D	03 Dec 2025 09:55	added NEW-low level	SY/MD	Ok
3	VSTD0.0570	VSTD0.05270	VV039446.D	03 Dec 2025 10:32		SY/MD	Ok
4	VSTD0.171	VSTD0.1271	VV039447.D	03 Dec 2025 10:58	SFAM -sim-method	SY/MD	Ok
5	VSTD0.572	VSTD0.5272	VV039448.D	03 Dec 2025 11:25	Modified for analyte-1122-tetrachloroethane	SY/MD	Ok
6	VSTD00173	VSTD001273	VV039449.D	03 Dec 2025 11:52	pH#lot#v14222	SY/MD	Ok
7	VSTD00274	VSTD002274	VV039450.D	03 Dec 2025 12:18		SY/MD	Ok
8	VSTDICV0.5	VICV275	VV039451.D	03 Dec 2025 12:56		SY/MD	Ok
9	VV1203WBL01	VBLK234	VV039452.D	03 Dec 2025 13:50		SY/MD	Ok
10	Q3743-05	TB	VV039453.D	03 Dec 2025 14:42	pH#1.0 B,TB	SY/MD	Ok
11	Q3743-01	TW-1125-1	VV039454.D	03 Dec 2025 15:03	pH#1.0 C	SY/MD	Ok
12	Q3743-02	TW-1125-2	VV039455.D	03 Dec 2025 15:24	pH#1.0 C	SY/MD	Ok
13	VSTDCCC0.5EC	VSTD0.5332	VV039456.D	03 Dec 2025 15:59		SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV120425

Review By	John Carlone	Review On	12/5/2025 11:05:05 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/7/2025 10:23:47 PM
SubDirectory	VV120425	HP Acquire Method	MSVOA_V
		HP Processing Method	SFAMVSIM120325MA.M

STD. NAME	STD REF.#
Tune/Reschk	VP136559
Initial Calibration Stds	VP136546,VP136547,VP136548,VP136549,VP136550,VP136551
CCC	VP136554,VP136555
Internal Standard/PEM	VP135611
ICV/I.BLK	VP136552
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB245	BFB245	VV039457.D	04 Dec 2025 09:08		SY/MD	Ok
2	VSTDCCC0.5	VSTD0.5333	VV039458.D	04 Dec 2025 09:42	pH#lot#v14222	SY/MD	Ok
3	VV1204WBL01	VBLK235	VV039459.D	04 Dec 2025 10:15		SY/MD	Ok
4	Q3756-02	OW-04B-26.5-120225-S	VV039460.D	04 Dec 2025 11:17	pH#1.0 A, Surrogate Fail	SY/MD	Ok
5	Q3756-09	EB01-120225	VV039461.D	04 Dec 2025 11:39	pH#1.0 A ,EB	SY/MD	Ok
6	Q3756-10	TB01-120225	VV039462.D	04 Dec 2025 12:00	pH#1.0 A ,TB	SY/MD	Ok
7	Q3756-04	BR-01-190-120225-SIM	VV039463.D	04 Dec 2025 12:21	pH#1.0 A ,Surrogate Fail;Need 20X, No need SIM analysis	SY/MD	Not Ok
8	Q3756-06	MW-04-12-120225-SIM	VV039464.D	04 Dec 2025 12:42	pH#1.0 A	SY/MD	Ok,M
9	Q3756-08	MW-13B-47.5-120225-S	VV039465.D	04 Dec 2025 13:03	pH#1.0 A	SY/MD	Ok,M
10	VIBLK228	VIBLK228	VV039466.D	04 Dec 2025 13:40		SY/MD	Ok,M
11	Q3756-04DL	BR-01-190-120225-SIM	VV039467.D	04 Dec 2025 14:01	pH#1.0 B	SY/MD	Not Ok
12	Q3756-02RE	OW-04B-26.5-120225-S	VV039468.D	04 Dec 2025 15:03	Surrogate fail, Internal Standard Fail	SY/MD	Confirms
13	VIBLK229	VIBLK229	VV039469.D	04 Dec 2025 15:24		SY/MD	Ok,M
14	Q3756-12	VHBLK001	VV039470.D	04 Dec 2025 15:45	SB;Surrogate Fail	SY/MD	Not Ok
15	VSTDCCC0.5EC	VSTD0.5334	VV039471.D	04 Dec 2025 16:56		SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_V

Daily Analysis Runlog For Sequence/QC Batch ID # VV120525

Review By	Semsettin Yesilyurt	Review On	12/7/2025 10:27:36 PM
Supervise By	Maresh Dadoda	Supervise On	12/8/2025 7:48:16 AM
SubDirectory	VV120525	HP Acquire Method	MSVOA_V
		HP Processing Method	SFAMVSIM120325MA.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136560
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136556,VP136557 VP136511

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB246	BFB246	VV039472.D	05 Dec 2025 10:46		SY/MD	Ok
2	VSTDCCC0.5	VSTD0.5335	VV039473.D	05 Dec 2025 11:47		SY/MD	Ok
3	VV1205WBL01	VBLK236	VV039474.D	05 Dec 2025 12:30		SY/MD	Ok
4	Q3757-02	MW-14A-17.5-120325-SI	VV039475.D	05 Dec 2025 13:16	Surrogate Fail	SY/MD	ReRun
5	Q3757-06	MW-14B-46-120325-SI	VV039476.D	05 Dec 2025 13:37	Surrogate Fail;Internal Standard Fail	SY/MD	ReRun
6	Q3757-08	RMW-05B-90.5-120325-SI	VV039477.D	05 Dec 2025 14:16	pH#1.0 A	SY/MD	Ok
7	Q3757-12	TB01-120325	VV039478.D	05 Dec 2025 14:37	TB	SY/MD	Ok
8	Q3757-04	BR-03D-490-120325-SI	VV039479.D	05 Dec 2025 14:59	Sim analysis not required	SY/MD	Not Ok
9	VIBLK230	VIBLK230	VV039480.D	05 Dec 2025 15:20		SY/MD	Ok
10	Q3757-10	OW-05B-72-120325-SI	VV039481.D	05 Dec 2025 15:47	pH#1.0 A	SY/MD	Ok
11	Q3743-05	TB	VV039482.D	05 Dec 2025 16:08	Already analyzed	SY/MD	Not Ok
12	Q3756-12	VHBLK001	VV039483.D	05 Dec 2025 16:29	SB	SY/MD	Ok
13	VSTDCCC0.5EC	VSTD0.5336	VV039484.D	05 Dec 2025 16:50		SY/MD	Ok

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3756	OrderDate:	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	--Select--,A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	OW-04B-26.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-02	OW-04B-26.5-120225 -SIM	Water	VOC-SIM	SFAM_VOCSI M	12/02/25		12/04/25	12/02/25
Q3756-02RE	OW-04B-26.5-120225 -SIMRE	Water	VOC-SIM	SFAM_VOCSI M	12/02/25		12/04/25	12/02/25
Q3756-03	BR-01-190-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-05	MW-04-12-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-06	MW-04-12-120225-SI M	Water	VOC-SIM	SFAM_VOCSI M	12/02/25		12/04/25	12/02/25
Q3756-07	MW-13B-47.5-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/04/25	12/02/25
Q3756-08	MW-13B-47.5-120225 -SIM	Water	VOC-SIM	SFAM_VOCSI M	12/02/25		12/04/25	12/02/25
Q3756-09	EB01-120225	Water	VOCMS Group3	8260-Low	12/02/25		12/03/25	12/02/25

LAB CHRONICLE

			VOC-SIM	SFAM_VOCSI M	12/04/25	
Q3756-10	TB01-120225	Water			12/02/25	12/02/25
			VOCMS Group3	8260-Low	12/03/25	
			VOC-SIM	SFAM_VOCSI M	12/04/25	
Q3756-10RE	TB01-120225RE	Water			12/02/25	12/02/25
			VOCMS Group3	8260-Low	12/03/25	
Q3756-12	VHBLK001	Water			12/02/25	12/02/25
			VOC-SIM	SFAM_VOCSI M	12/05/25	



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

Hit Summary Sheet SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	BR-01-190-120225						
Q3756-03	BR-01-190-120225	WATER	1,4-Dioxane	6.100	E 0.07	0.21	ug/L
			Total Svoc :		6.10		
			Total Concentration:		6.10		
Client ID :	BR-01-190-120225DL						
Q3756-03DL	BR-01-190-120225DL	WATER	1,4-Dioxane	5.400	D 0.14	0.41	ug/L
			Total Svoc :		5.40		
			Total Concentration:		5.40		



SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: OW-04B-26.5-120225	SDG No.: Q3756	
Lab Sample ID: Q3756-01	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 960 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.21	ug/L	12/06/25 02:08	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.27			30 (47) - 150 (106)	67%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.40			30 (54) - 150 (157)	99%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.30			30 (56) - 130 (116)	76%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.35			30 (50) - 130 (126)	87%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			30 (54) - 130 (175)	109%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6480							
1146-65-2	Naphthalene-d8	18600							
15067-26-2	Acenaphthene-d10	9160							
1517-22-2	Phenanthrene-d10	13300							
1719-03-5	Chrysene-d12	9130							
1520-96-3	Perylene-d12	9060							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: BR-01-190-120225	SDG No.: Q3756	
Lab Sample ID: Q3756-03	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 970 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	6.10	E	1	0.070	0.21	ug/L	12/06/25 02:45	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.28			30 (47) - 150 (106)	71%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.43			30 (54) - 150 (157)	106%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.33			30 (56) - 130 (116)	81%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.34			30 (50) - 130 (126)	86%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.42			30 (54) - 130 (175)	104%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6610							
1146-65-2	Naphthalene-d8	18500							
15067-26-2	Acenaphthene-d10	9410							
1517-22-2	Phenanthrene-d10	15200							
1719-03-5	Chrysene-d12	11300							
1520-96-3	Perylene-d12	11500							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: BR-01-190-120225DL	SDG No.: Q3756	
Lab Sample ID: Q3756-03DL	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 970 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	5.40	D	2	0.14	0.41	ug/L	12/12/25 01:13	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.26			30 (47) - 150 (106)	66%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 (54) - 150 (157)	89%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.30			30 (56) - 130 (116)	76%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.30			30 (50) - 130 (126)	74%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			30 (54) - 130 (175)	109%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	5760							
1146-65-2	Naphthalene-d8	15500							
15067-26-2	Acenaphthene-d10	8100							
1517-22-2	Phenanthrene-d10	15200							
1719-03-5	Chrysene-d12	11100							
1520-96-3	Perylene-d12	11000							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: MW-04-12-120225	SDG No.: Q3756	
Lab Sample ID: Q3756-05	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 900 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.22	ug/L	12/06/25 03:21	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	74%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.37			30 (54) - 150 (157)	94%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.31			30 (56) - 130 (116)	77%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.34			30 (50) - 130 (126)	84%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.52			30 (54) - 130 (175)	129%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6900							
1146-65-2	Naphthalene-d8	20800							
15067-26-2	Acenaphthene-d10	11100							
1517-22-2	Phenanthrene-d10	16500							
1719-03-5	Chrysene-d12	9940							
1520-96-3	Perylene-d12	9900							

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B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: MW-13B-47.5-120225	SDG No.: Q3756	
Lab Sample ID: Q3756-07	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.20	ug/L	12/06/25 03:58	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	74%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.34			30 (54) - 150 (157)	84%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.31			30 (56) - 130 (116)	77%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.33			30 (50) - 130 (126)	82%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.46			30 (54) - 130 (175)	115%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	7020							
1146-65-2	Naphthalene-d8	21500							
15067-26-2	Acenaphthene-d10	11500							
1517-22-2	Phenanthrene-d10	17300							
1719-03-5	Chrysene-d12	10200							
1520-96-3	Perylene-d12	10400							

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/02/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/02/25	
Client Sample ID: EB01-120225	SDG No.: Q3756	
Lab Sample ID: Q3756-09	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 950 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.21	ug/L	12/06/25 04:35	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	73%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 (54) - 150 (157)	90%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.33			30 (56) - 130 (116)	81%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.32			30 (50) - 130 (126)	81%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			30 (54) - 130 (175)	113%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6960							
1146-65-2	Naphthalene-d8	20000							
15067-26-2	Acenaphthene-d10	11000							
1517-22-2	Phenanthrene-d10	16200							
1719-03-5	Chrysene-d12	10600							
1520-96-3	Perylene-d12	11200							

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QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170838BL	PB170838BL	2-Methylnaphthalene-d10	0.4	0.31	78		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.40	99		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.36	91		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.38	95		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.35	87		30 (54)	130 (175)
PB170838BS	PB170838BS	2-Methylnaphthalene-d10	0.4	0.40	100		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.42	104		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.42	106		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.47	118		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.36	91		30 (54)	130 (175)
PB170838BSD	PB170838BSD	2-Methylnaphthalene-d10	0.4	0.34	84		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.39	97		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.37	91		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.40	101		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.34	84		30 (54)	130 (175)
Q3756-01	OW-04B-26.5-120225	2-Methylnaphthalene-d10	0.4	0.27	67		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.40	99		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	76		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.35	87		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.44	109		30 (54)	130 (175)
Q3756-03	BR-01-190-120225	2-Methylnaphthalene-d10	0.4	0.28	71		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.43	106		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.33	81		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.34	86		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.42	104		30 (54)	130 (175)
Q3756-03DL	BR-01-190-120225DL	2-Methylnaphthalene-d10	0.4	0.26	66		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	89		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	76		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.30	74		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.44	109		30 (54)	130 (175)
Q3756-05	MW-04-12-120225	2-Methylnaphthalene-d10	0.4	0.29	74		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.37	94		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.31	77		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.34	84		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.52	129		30 (54)	130 (175)
Q3756-07	MW-13B-47.5-120225	2-Methylnaphthalene-d10	0.4	0.29	74		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.34	84		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.31	77		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.33	82		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.46	115		30 (54)	130 (175)
Q3756-09	EB01-120225	2-Methylnaphthalene-d10	0.4	0.29	73		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	90		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.33	81		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.32	81		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.45	113		30 (54)	130 (175)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756

Analytical Method: 8270-Modified

Client: JACOBS Engineering Group, Inc.

DataFile: BN038289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB170838BS	1,4-Dioxane	0.4	0.33	ug/L	83				20 (65)	160 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756

Analytical Method: 8270-Modified

Client: JACOBS Engineering Group, Inc.

DataFile: BN038290.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB170838BSD	1,4-Dioxane	0.4	0.31	ug/L	78	6			20 (65)	160 (116)	20 (27)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170838BL

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG NO.: <u>Q3756</u>
Lab File ID: <u>BN038288.D</u>	Lab Sample ID: <u>PB170838BL</u>
Instrument ID: <u>BNA_N</u>	Date Extracted: <u>12/05/2025</u>
Matrix: (soil/water) <u>Water</u>	Date Analyzed: <u>12/06/2025</u>
Level: (low/med) <u>LOW</u>	Time Analyzed: <u>00:19</u>

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170838BS	PB170838BS	BN038289.D	12/06/2025
PB170838BSD	PB170838BSD	BN038290.D	12/06/2025
OW-04B-26.5-120225	Q3756-01	BN038291.D	12/06/2025
BR-01-190-120225	Q3756-03	BN038292.D	12/06/2025
MW-04-12-120225	Q3756-05	BN038293.D	12/06/2025
MW-13B-47.5-120225	Q3756-07	BN038294.D	12/06/2025
EB01-120225	Q3756-09	BN038295.D	12/06/2025

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038211.D
Instrument ID: BNA_N

Contract: JAC005
SDG NO.: Q3756
DFTPP Injection Date: 11/26/2025
DFTPP Injection Time: 19:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	90.9
443	15.0 - 24.0% of mass 442	18.4 (20.3) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN038212.D	11/26/2025	20:35
SSTDICC0.2	SSTDICC0.2	BN038213.D	11/26/2025	21:12
SSTDICCC0.4	SSTDICCC0.4	BN038214.D	11/26/2025	21:48
SSTDICC0.8	SSTDICC0.8	BN038215.D	11/26/2025	22:25
SSTDICC1.6	SSTDICC1.6	BN038216.D	11/26/2025	23:01
SSTDICC3.2	SSTDICC3.2	BN038217.D	11/26/2025	23:37
SSTDICC5.0	SSTDICC5.0	BN038218.D	11/27/2025	00:13

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038286.D
Instrument ID: BNA_N

Contract: JAC005
SDG NO.: Q3756
DFTPP Injection Date: 12/05/2025
DFTPP Injection Time: 22:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	41.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	86.9
443	15.0 - 24.0% of mass 442	15.2 (17.5) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038287.D	12/05/2025	23:42
PB170838BL	PB170838BL	BN038288.D	12/06/2025	00:19
PB170838BS	PB170838BS	BN038289.D	12/06/2025	00:55
PB170838BSD	PB170838BSD	BN038290.D	12/06/2025	01:32
OW-04B-26.5-120225	Q3756-01	BN038291.D	12/06/2025	02:08
BR-01-190-120225	Q3756-03	BN038292.D	12/06/2025	02:45
MW-04-12-120225	Q3756-05	BN038293.D	12/06/2025	03:21
MW-13B-47.5-120225	Q3756-07	BN038294.D	12/06/2025	03:58
EB01-120225	Q3756-09	BN038295.D	12/06/2025	04:35

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038297.D
Instrument ID: BNA_N

Contract: JAC005
SDG NO.: Q3756
DFTPP Injection Date: 12/10/2025
DFTPP Injection Time: 09:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	92.6
443	15.0 - 24.0% of mass 442	16.9 (18.2) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN038298.D	12/10/2025	09:52
SSTDICC0.2	SSTDICC0.2	BN038299.D	12/10/2025	10:28
SSTDICCC0.4	SSTDICCC0.4	BN038300.D	12/10/2025	11:05
SSTDICC0.8	SSTDICC0.8	BN038301.D	12/10/2025	11:41
SSTDICC1.6	SSTDICC1.6	BN038302.D	12/10/2025	12:17
SSTDICC3.2	SSTDICC3.2	BN038303.D	12/10/2025	12:53
SSTDICC5.0	SSTDICC5.0	BN038304.D	12/10/2025	13:30

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: BN038329.D
Instrument ID: BNA_N

Contract: JAC005
SDG NO.: Q3756
DFTPP Injection Date: 12/11/2025
DFTPP Injection Time: 23:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	95.1
443	15.0 - 24.0% of mass 442	18.9 (19.9) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038330.D	12/11/2025	23:59
BR-01-190-120225DL	Q3756-03DL	BN038332.D	12/12/2025	01:13

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3756

Client ID : SSTDCCC0.4

Date Analyzed: 12/05/2025

Lab File ID: BN038287.D

Time Analyzed: 23:42

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	6906	7.761	20829	10.56	10600	14.42
UPPER LIMIT	13812	8.261	41658	11.062	21200	14.92
LOWER LIMIT	3453	7.261	10414.5	10.062	5300	13.92
EPA SAMPLE NO.						
01 PB170838BL	7136	7.76	19157	10.56	8410	14.43
02 PB170838BS	7065	7.76	18764	10.56	7890	14.42
03 PB170838BSD	6710	7.76	17808	10.56	7711	14.42
04 OW-04B-26.5-120225	6484	7.76	18611	10.56	9161	14.42
05 BR-01-190-120225	6614	7.76	18511	10.56	9412	14.42
06 MW-04-12-120225	6896	7.76	20829	10.56	11092	14.42
07 MW-13B-47.5-120225	7020	7.76	21534	10.56	11522	14.42
08 EB01-120225	6963	7.76	20031	10.56	11010	14.42

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3756

Client ID: SSTDCCC0.4

Date Analyzed: 12/05/2025

Lab File ID: BN038287.D

Time Analyzed: 23:42

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	14873	17.173	9751	21.367	10410	23.668
UPPER LIMIT	29746	17.673	19502	21.867	20820	24.168
LOWER LIMIT	7436.5	16.673	4875.5	20.867	5205	23.168
EPA SAMPLE NO.						
01 PB170838BL	11693	17.19	9196	21.38	9718	23.68
02 PB170838BS	11230	17.17	9380	21.37	9467	23.67
03 PB170838BSD	11030	17.17	9170	21.37	9318	23.67
04 OW-04B-26.5-120225	13341	17.17	9131	21.37	9062	23.67
05 BR-01-190-120225	15199	17.17	11302	21.37	11529	23.67
06 MW-04-12-120225	16516	17.17	9936	21.37	9902	23.67
07 MW-13B-47.5-120225	17319	17.17	10242	21.37	10445	23.67
08 EB01-120225	16237	17.17	10562	21.37	11226	23.67

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3756

Client ID : SSTDCCC0.4

Date Analyzed: 12/11/2025

Lab File ID: BN038330.D

Time Analyzed: 23:59

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5325	7.724	14404	10.52	7509	14.39
UPPER LIMIT	10650	8.224	28808	11.019	15018	14.887
LOWER LIMIT	2662.5	7.224	7202	10.019	3754.5	13.887
EPA SAMPLE NO.						
01 BR-01-190-120225DL	5762	7.72	15461	10.53	8101	14.39

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3756

Client ID: SSTDCCC0.4

Date Analyzed: 12/11/2025

Lab File ID: BN038330.D

Time Analyzed: 23:59

Instrument ID: BNA_N

GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	13836	17.148	10979	21.339	11587	23.63
UPPER LIMIT	27672	17.648	21958	21.839	23174	24.13
LOWER LIMIT	6918	16.648	5489.5	20.839	5793.5	23.13
EPA SAMPLE NO.						
01 BR-01-190-120225DL	15232	17.15	11067	21.34	11044	23.63

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected:	
Project: Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID: PB170838BL	SDG No.:	Q3756
Lab Sample ID: PB170838BL	Matrix:	Water
Analytical Method: SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.20	ug/L	12/06/25 00:19	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.31			30 (47) - 150 (106)	78%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.40			30 (54) - 150 (157)	99%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			30 (56) - 130 (116)	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.38			30 (50) - 130 (126)	95%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.35			30 (54) - 130 (175)	87%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	7140							
1146-65-2	Naphthalene-d8	19200							
15067-26-2	Acenaphthene-d10	8410							
1517-22-2	Phenanthrene-d10	11700							
1719-03-5	Chrysene-d12	9200							
1520-96-3	Perylene-d12	9720							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected:	
Project: Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID: PB170838BS	SDG No.:	Q3756
Lab Sample ID: PB170838BS	Matrix:	Water
Analytical Method: SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.33		1	0.070	0.20	ug/L	12/06/25 00:55	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.40			30 (47) - 150 (106)	100%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.42			30 (54) - 150 (157)	104%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.42			30 (56) - 130 (116)	106%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.47			30 (50) - 130 (126)	118%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.36			30 (54) - 130 (175)	91%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	7070							
1146-65-2	Naphthalene-d8	18800							
15067-26-2	Acenaphthene-d10	7890							
1517-22-2	Phenanthrene-d10	11200							
1719-03-5	Chrysene-d12	9380							
1520-96-3	Perylene-d12	9470							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected:	
Project: Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID: PB170838BSD	SDG No.:	Q3756
Lab Sample ID: PB170838BSD	Matrix:	Water
Analytical Method: SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol: 1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method : 3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.31		1	0.070	0.20	ug/L	12/06/25 01:32	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.34			30 (47) - 150 (106)	84%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.39			30 (54) - 150 (157)	97%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			30 (56) - 130 (116)	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.40			30 (50) - 130 (126)	101%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.34			30 (54) - 130 (175)	84%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6710							
1146-65-2	Naphthalene-d8	17800							
15067-26-2	Acenaphthene-d10	7710							
1517-22-2	Phenanthrene-d10	11000							
1719-03-5	Chrysene-d12	9170							
1520-96-3	Perylene-d12	9320							

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN112725.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Nov 28 21:04:10 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN038212.D 0.2 =BN038213.D 0.4 =BN038214.D 0.8 =BN038215.D 1.6 =BN038216.D 3.2 =BN038217.D 5 =BN038218.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.484	0.448	0.396	0.423	0.399	0.378	0.421	9.29	
3)	n-Nitrosodimet...	0.488	0.543	0.513	0.536	0.528	0.510	0.520	3.87	
4) S	2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.892	0.935	5.14
5) S	Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.191	1.168	4.05
6)	bis(2-Chloroet...	1.066	1.118	1.188	1.086	1.152	1.130	1.088	1.118	3.79
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.311	0.320	7.07
9)	Naphthalene	1.152	1.102	1.153	1.075	1.118	1.093	1.082	1.111	2.87
10)	Hexachlorobuta...	0.203	0.192	0.200	0.182	0.188	0.180	0.177	0.189	5.29
11) SURR	2-Methylnaphth...	0.535	0.548	0.588	0.558	0.584	0.584	0.579	0.568	3.70
12)	2-Methylnaphth...	0.696	0.697	0.760	0.718	0.754	0.750	0.741	0.731	3.68
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.106	0.100	0.123	0.122	0.139	0.165	0.126	18.76	
15) S	2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.459	1.545	3.85
16)	Acenaphthylene	1.756	1.685	1.801	1.702	1.830	1.866	1.880	1.789	4.31
17)	Acenaphthene	1.244	1.208	1.292	1.198	1.263	1.262	1.261	1.247	2.66
18)	Fluorene	1.544	1.442	1.650	1.571	1.680	1.708	1.703	1.614	6.13
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.021	0.026	0.031	0.044	0.059	0.071	0.042	46.82	
21)	4-Bromophenyl-...	0.268	0.268	0.285	0.268	0.287	0.284	0.280	0.277	3.19
22)	Hexachlorobenzene	0.377	0.366	0.358	0.320	0.337	0.319	0.307	0.341	7.87
23)	Atrazine	0.165	0.157	0.175	0.164	0.181	0.198	0.200	0.177	9.46
24)	Pentachlorophenol	0.090	0.084	0.080	0.096	0.117	0.093	15.54		
25)	Phenanthrene	1.247	1.207	1.311	1.202	1.270	1.293	1.259	1.256	3.24
26)	Anthracene	0.996	0.998	1.068	1.016	1.100	1.156	1.166	1.071	6.73
27) SURR	Fluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.900	0.868	3.76
28)	Fluoranthene	1.174	1.147	1.227	1.146	1.230	1.281	1.266	1.210	4.55
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.066	1.804	2.087	1.972	1.973	2.077	2.006	1.998	4.91
31) S	Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.949	0.924	4.65
32)	Benzo(a)anthra...	1.321	1.271	1.368	1.320	1.373	1.421	1.409	1.355	3.94
33)	Chrysene	1.742	1.639	1.661	1.517	1.597	1.541	1.494	1.599	5.53
34)	Bis(2-ethylhex...	0.780	0.801	0.700	0.682	0.740	0.746	0.742	6.12	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN112725.M

36)	Indeno(1,2,3-c...	1.747	1.715	1.875	1.736	1.962	1.963	1.960	1.851	6.24
37)	Benzo(b)fluora...	1.563	1.555	1.703	1.586	1.675	1.721	1.690	1.642	4.32
38)	Benzo(k)fluora...	1.627	1.639	1.758	1.658	1.749	1.776	1.742	1.707	3.69
39) C	Benzo(a)pyrene	1.414	1.284	1.386	1.316	1.403	1.414	1.417	1.376	3.93
40)	Dibenzo(a,h)an...	1.264	1.234	1.379	1.349	1.512	1.541	1.531	1.401	9.14
41)	Benzo(g,h,i)pe...	1.722	1.586	1.721	1.617	1.720	1.687	1.670	1.674	3.25

(#) = Out of Range

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN121025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed Dec 10 13:56:50 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN038298.D 0.2 =BN038299.D 0.4 =BN038300.D 0.8 =BN038301.D 1.6 =BN038302.D 3.2 =BN038303.D 5 =BN038304.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.506	0.465	0.443	0.442	0.456	0.440	0.459		5.48
3)	n-Nitrosodimet...	0.568	0.572	0.568	0.577	0.590	0.574	0.575		1.42
4) S	2-Fluorophenol	0.954	1.034	0.988	0.981	0.978	1.020	1.019	0.996	2.88
5) S	Phenol-d6	1.098	1.157	1.151	1.158	1.186	1.263	1.277	1.184	5.44
6)	bis(2-Chloroet...	1.156	1.171	1.166	1.149	1.144	1.176	1.147	1.158	1.10
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.325	0.324	0.329	0.332	0.334	0.358	0.359	0.337	4.38
9)	Naphthalene	1.174	1.185	1.168	1.155	1.159	1.231	1.205	1.182	2.30
10)	Hexachlorobuta...	0.218	0.213	0.210	0.207	0.205	0.212	0.206	0.210	2.24
11) SURR	2-Methylnaphth...	0.543	0.548	0.549	0.554	0.559	0.598	0.599	0.564	4.23
12)	2-Methylnaphth...	0.722	0.735	0.731	0.737	0.747	0.794	0.789	0.751	3.85
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.167	0.163	0.167	0.169	0.175	0.197	0.205	0.177	9.30
15) S	2-Fluorobiphenyl	1.940	1.951	1.974	1.838	1.897	2.070	1.819	1.927	4.45
16)	Acenaphthylene	1.890	1.885	1.903	1.918	1.931	2.131	2.092	1.964	5.21
17)	Acenaphthene	1.311	1.329	1.342	1.351	1.358	1.460	1.430	1.369	4.01
18)	Fluorene	1.790	1.706	1.707	1.735	1.727	1.858	1.802	1.761	3.24
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.054	0.057	0.064	0.069	0.085		0.066		18.62
21)	4-Bromophenyl-...	0.288	0.291	0.287	0.291	0.293	0.310	0.318	0.297	4.12
22)	Hexachlorobenzene	0.370	0.366	0.350	0.350	0.347	0.358	0.357	0.357	2.40
23)	Atrazine	0.184	0.196	0.190	0.197	0.200	0.221	0.229	0.202	8.11
24)	Pentachlorophenol	0.124	0.121	0.121	0.126	0.134	0.156	0.174	0.139	15.30
25)	Phenanthrene	1.412	1.373	1.363	1.350	1.353	1.439	1.456	1.392	3.12
26)	Anthracene	1.149	1.119	1.141	1.184	1.186	1.300	1.323	1.200	6.67
27) SURR	Fluoranthene-d10	0.928	0.947	0.984	0.983	0.984	1.045	1.053	0.989	4.66
28)	Fluoranthene	1.419	1.413	1.459	1.466	1.473	1.562	1.566	1.480	4.17
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	2.038	1.968	1.920	1.909	1.890	2.022	2.037	1.969	3.25
31) S	Terphenyl-d14	0.913	0.917	0.881	0.879	0.863	0.893	0.903	0.893	2.20
32)	Benzo(a)anthra...	1.476	1.537	1.479	1.501	1.513	1.638	1.672	1.545	5.08
33)	Chrysene	1.653	1.712	1.721	1.709	1.674	1.745	1.697	1.701	1.79
34)	Bis(2-ethylhex...	1.002	0.845	0.779	0.754	0.828	0.879	0.848		10.38
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN121025.M

36)	Indeno(1,2,3-c...	1.813	2.040	2.122	2.116	2.115	2.321	2.330	2.123	8.27
37)	Benzo(b)fluora...	1.673	1.831	1.783	1.776	1.827	1.987	1.984	1.837	6.18
38)	Benzo(k)fluora...	1.597	1.793	1.796	1.812	1.823	2.006	1.994	1.832	7.57
39) C	Benzo(a)pyrene	1.355	1.459	1.469	1.459	1.479	1.640	1.663	1.503	7.27
40)	Dibenzo(a,h)an...	1.396	1.521	1.619	1.624	1.651	1.823	1.822	1.637	9.37
41)	Benzo(g,h,i)pe...	1.622	1.816	1.812	1.806	1.818	1.966	1.964	1.829	6.34

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q3756
 Instrument ID: BNA_N Calibration Date/Time: 12/05/2025 23:42
 Lab File ID: BN038287.D Init. Calib. Date(s): 11/26/2025 11/27/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 20:35 00:13
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.582		2.5	20.0
Fluoranthene-d10	0.868	0.874		0.7	20.0
2-Fluorophenol	0.935	0.980		4.8	20.0
Phenol-d6	1.168	1.224		4.8	20.0
Nitrobenzene-d5	0.320	0.314		-1.9	20.0
2-Fluorobiphenyl	1.545	1.760		13.9	20.0
2,4,6-Tribromophenol	0.126	0.118		-6.3	20.0
Terphenyl-d14	0.924	0.838		-9.3	20.0
1,4-Dioxane	0.421	0.446		5.9	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q3756
 Instrument ID: BNA_N Calibration Date/Time: 12/11/2025 23:59
 Lab File ID: BN038330.D Init. Calib. Date(s): 12/10/2025 12/10/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 09:52 13:30
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.564	0.557		-1.2	20.0
Fluoranthene-d10	0.990	0.988		-0.2	20.0
2-Fluorophenol	0.996	0.984		-1.2	20.0
Phenol-d6	1.184	1.177		-0.6	20.0
Nitrobenzene-d5	0.337	0.326		-3.3	20.0
2-Fluorobiphenyl	1.914	1.919		0.3	20.0
2,4,6-Tribromophenol	0.177	0.159		-10.2	20.0
Terphenyl-d14	0.893	0.848		-5.0	20.0
1,4-Dioxane	0.459	0.479		4.4	20.0

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038291.D
 Acq On : 06 Dec 2025 02:08
 Operator : RC/JU
 Sample : Q3756-01
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 OW-04B-26.5-120225

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 06 03:23:06 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

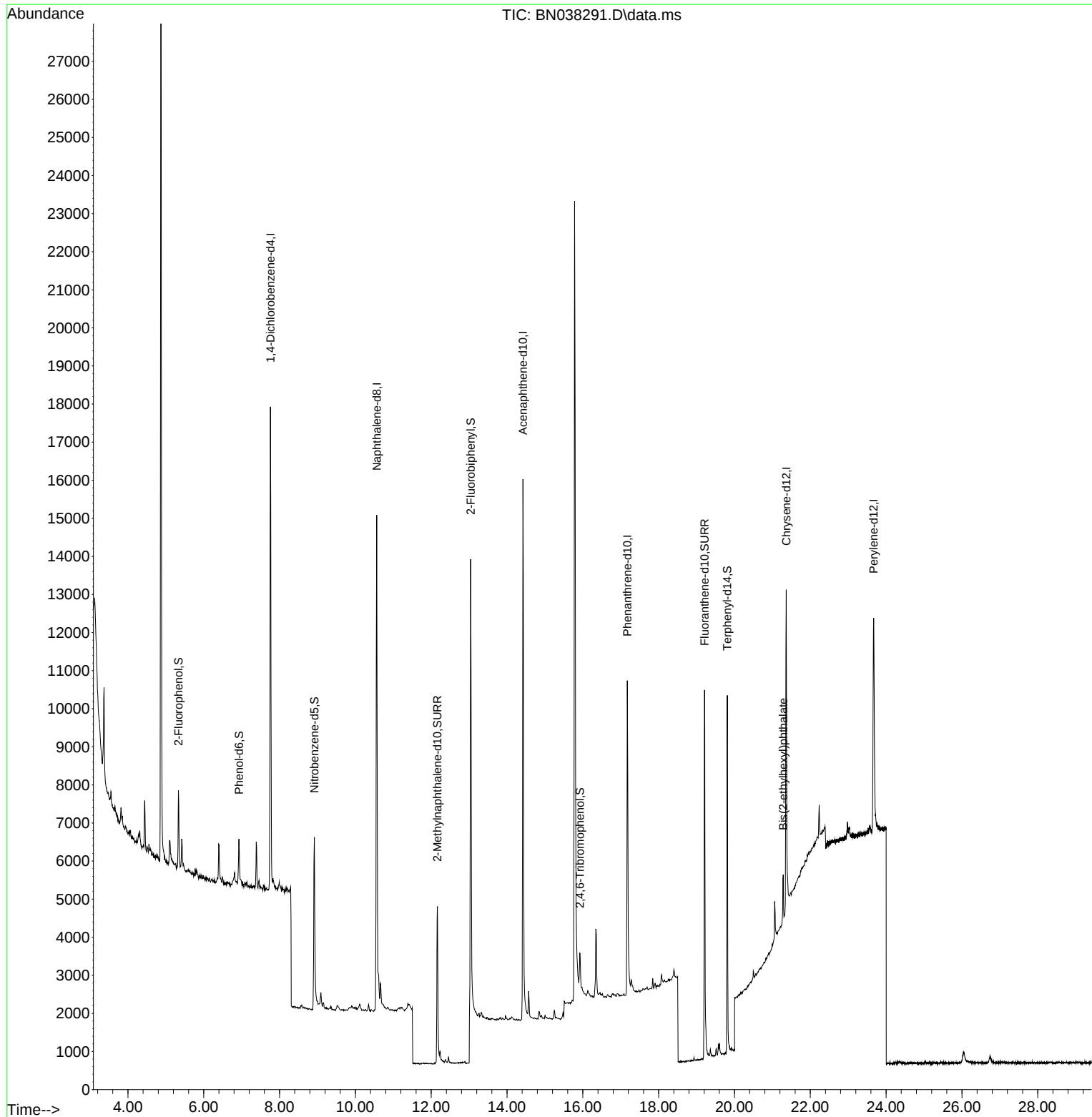
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6484	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18611	0.400	ng	#-0.01
13) Acenaphthene-d10	14.420	164	9161	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	13341	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9131	0.400	ng	0.00
35) Perylene-d12	23.671	264	9062	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	1740	0.115	ng	0.00
5) Phenol-d6	6.930	99	1342	0.071	ng	0.00
8) Nitrobenzene-d5	8.918	82	4530	0.304	ng	0.00
11) 2-Methylnaphthalene-d10	12.161	152	7106	0.269	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	693	0.240	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	12317	0.348	ng	-0.01
27) Fluoranthene-d10	19.211	212	11494	0.397	ng	0.00
31) Terphenyl-d14	19.810	244	9222	0.437	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.286	149	1403	0.083	ng	Qvalue # 96

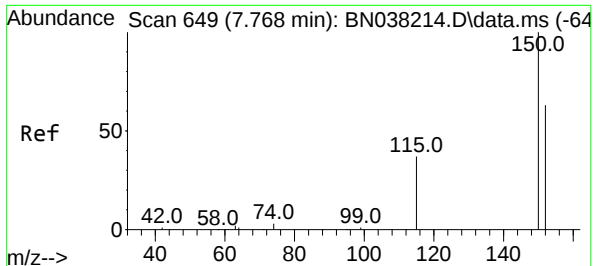
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038291.D
Acq On : 06 Dec 2025 02:08
Operator : RC/JU
Sample : Q3756-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

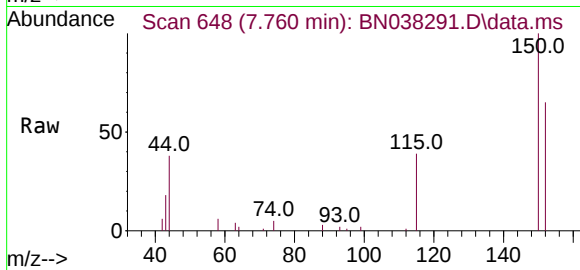
Quant Time: Dec 06 03:23:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



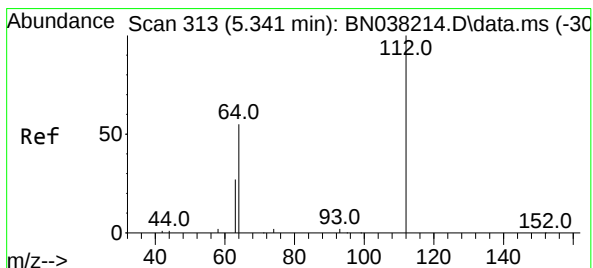
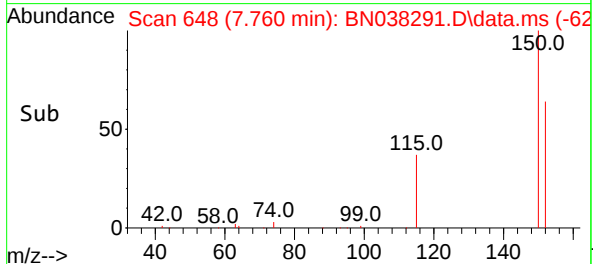
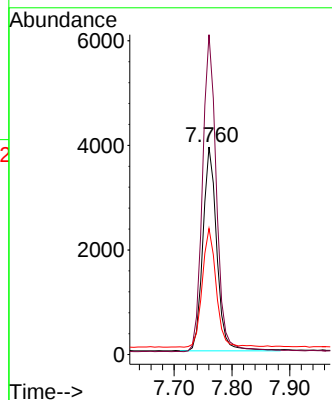


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

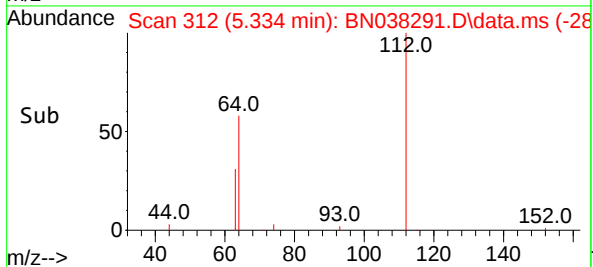
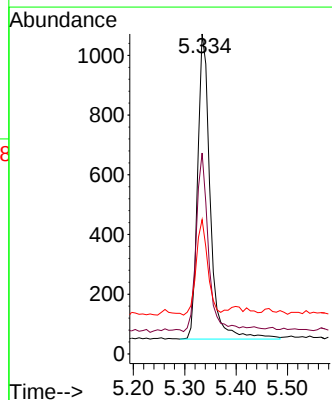
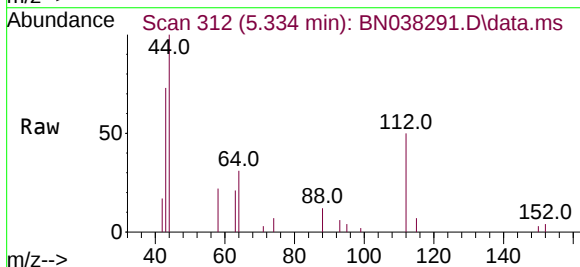


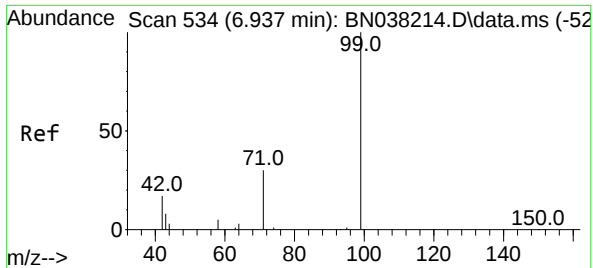
Tgt Ion:152 Resp: 6484
Ion Ratio Lower Upper
152 100
150 154.1 125.3 187.9
115 60.8 49.0 73.4



#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:112 Resp: 1740
Ion Ratio Lower Upper
112 100
64 57.2 45.0 67.4
63 28.8 23.2 34.8

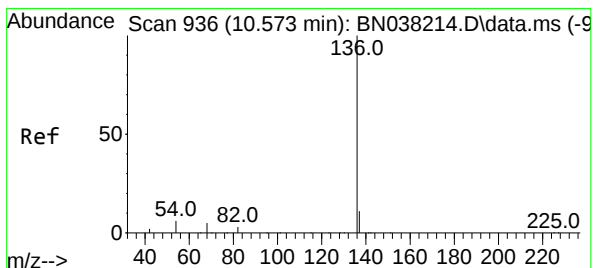
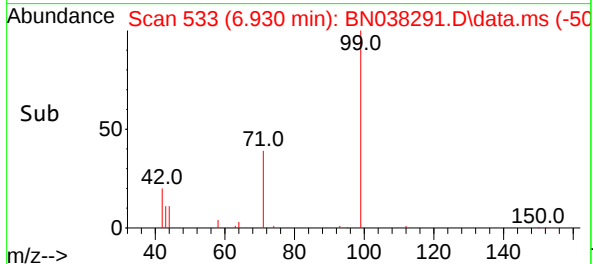
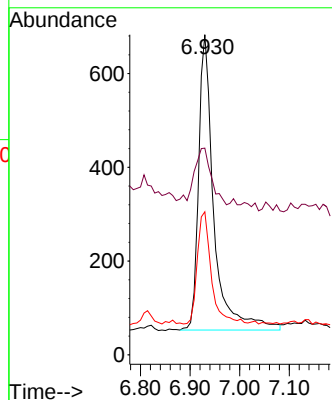
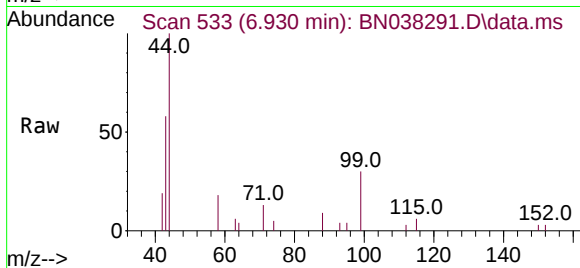




#5
Phenol-d6
Concen: 0.071 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

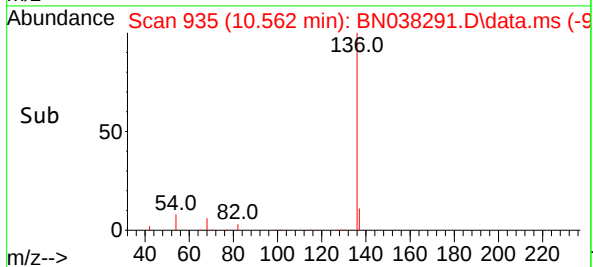
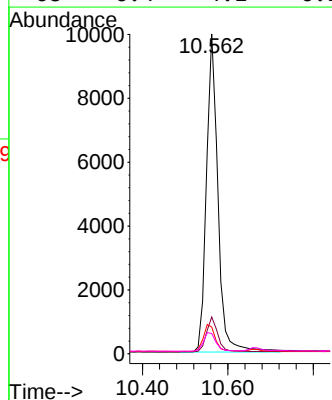
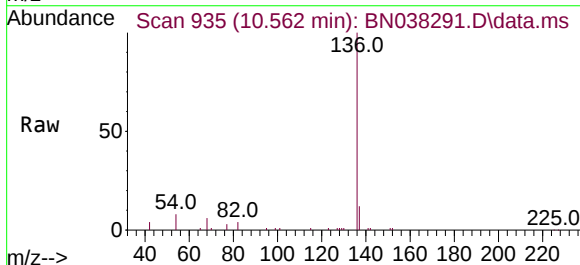
Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

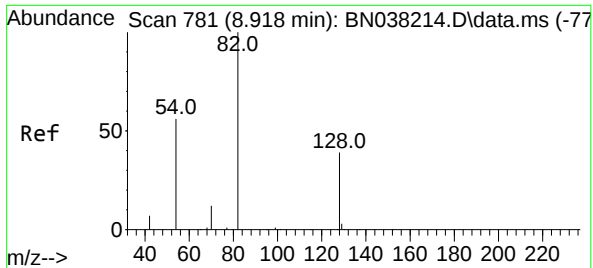
Tgt Ion:	99	Resp:	1342
Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.0	25.6
71	34.9	25.4	38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:	136	Resp:	18611
Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.4	5.4	8.0#
68	6.4	4.1	6.1#

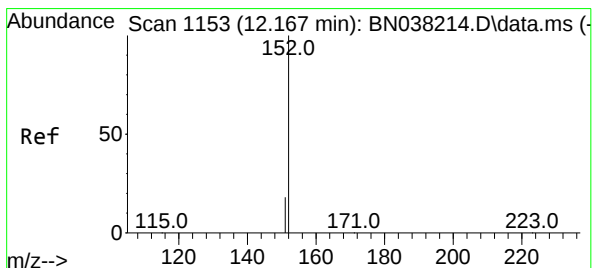
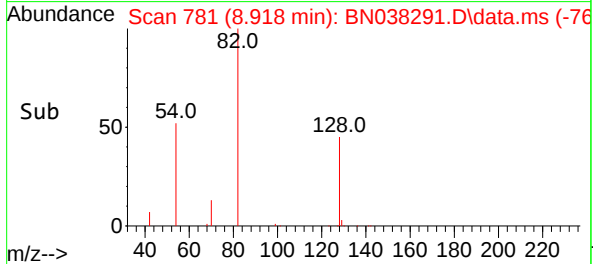
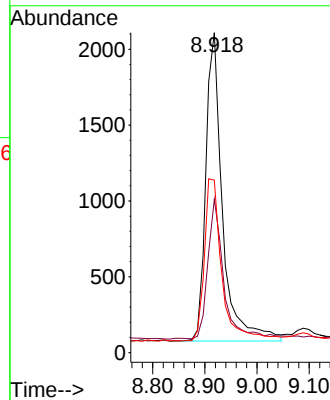
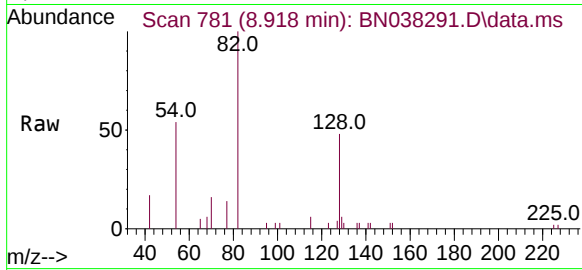




#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

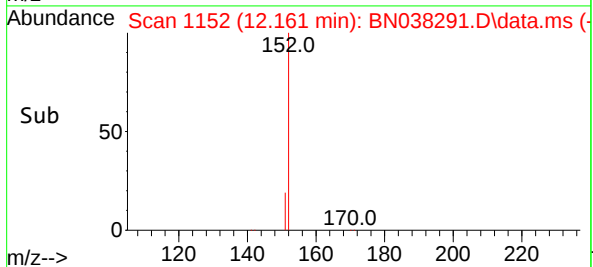
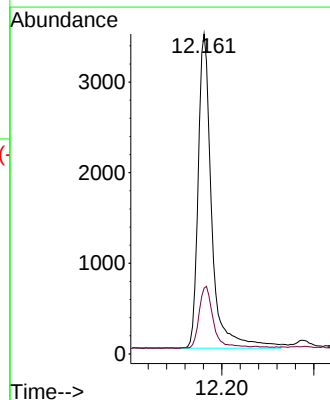
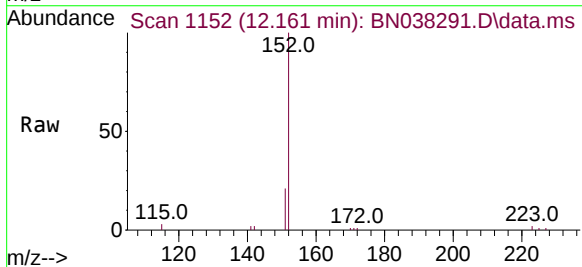
Instrument :
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ClientSampleId :
OW-04B-26.5-120225

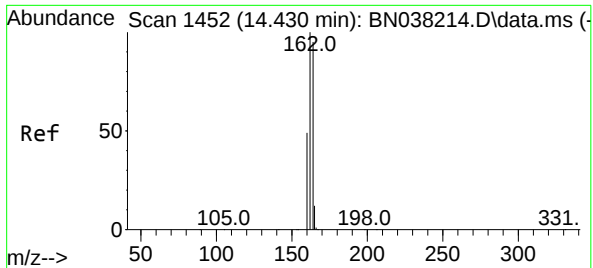
Tgt Ion:	82	Resp:	4530
Ion	Ratio	Lower	Upper
82	100		
128	47.9	32.6	48.8
54	53.9	45.4	68.0



#11
2-Methylnaphthalene-d10
Concen: 0.269 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:	152	Resp:	7106
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

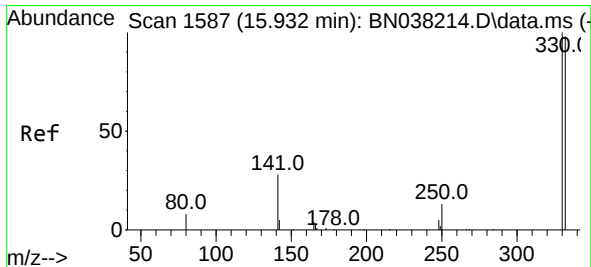
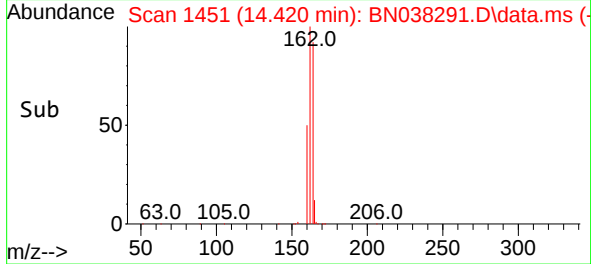
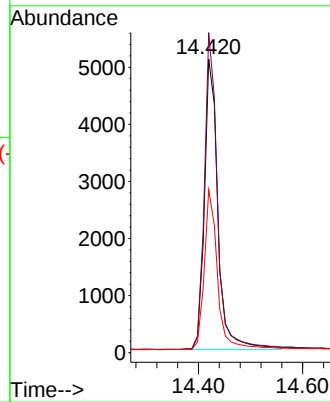
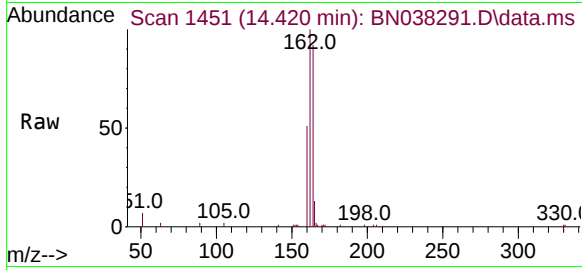




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

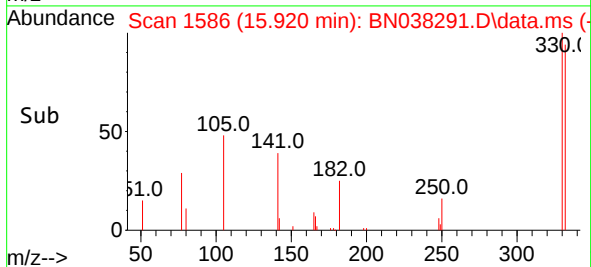
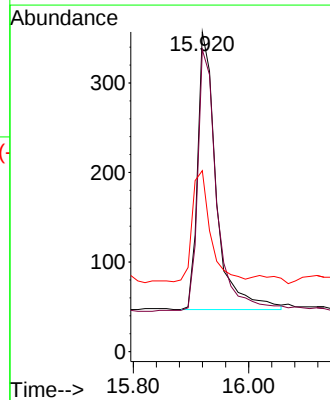
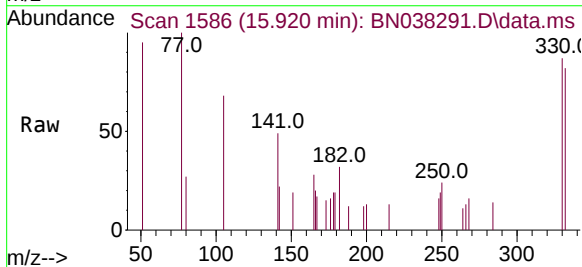
Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

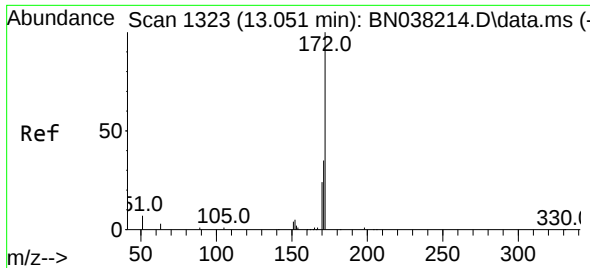
Tgt Ion	164	Ratio	100	Lower	83.8	Upper	125.8
162	109.0						
160	55.5						



#14
2,4,6-Tribromophenol
Concen: 0.240 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion	330	Ratio	100	Lower	77.8	Upper	116.6
332	98.0						
141	40.8						

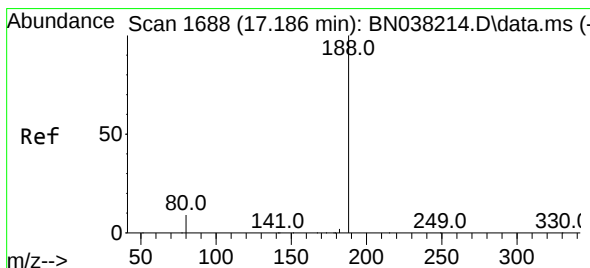
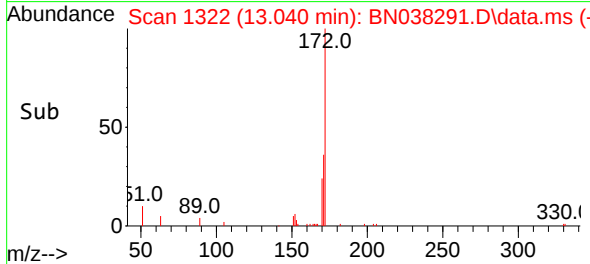
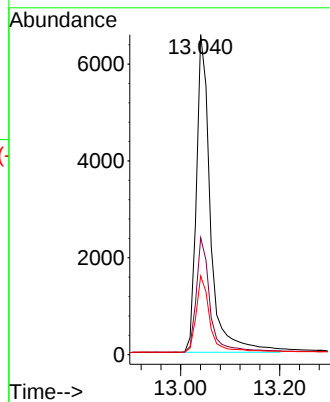
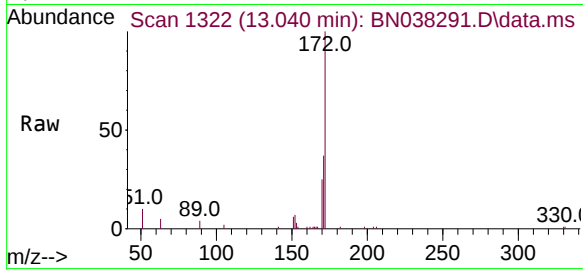




#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 13.040 min Scan# 1323
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

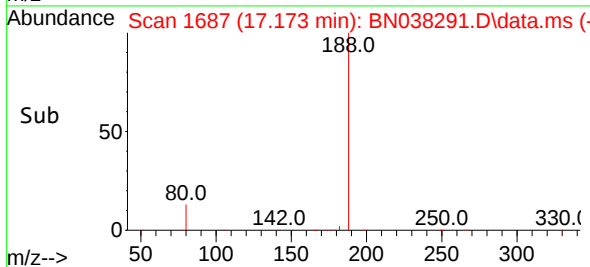
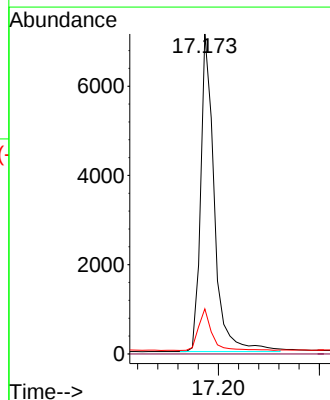
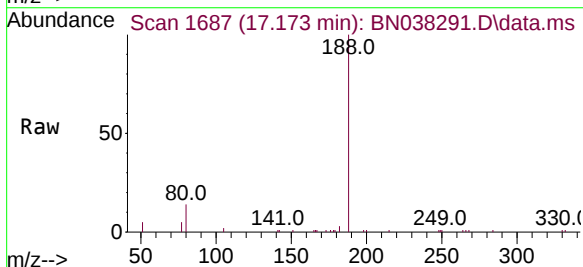
Instrument :
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ClientSampleId :
OW-04B-26.5-120225

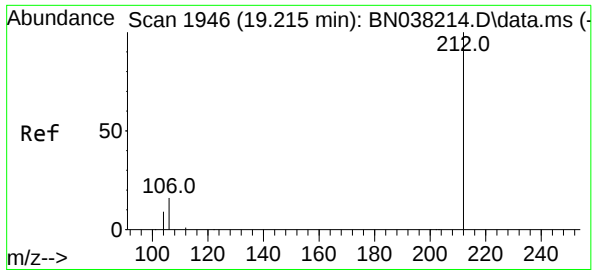
Tgt Ion:	172	Resp:	12317
Ion Ratio	Lower	Upper	
172	100		
171	36.5	28.1	42.1
170	24.6	19.1	28.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:	188	Resp:	13341
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.1	7.7	11.5





#27

Fluoranthene-d10

Concen: 0.397 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038291.D

Acq: 06 Dec 2025 02:08

Instrument :

BNA_N

ClientSampleId :

OW-04B-26.5-120225

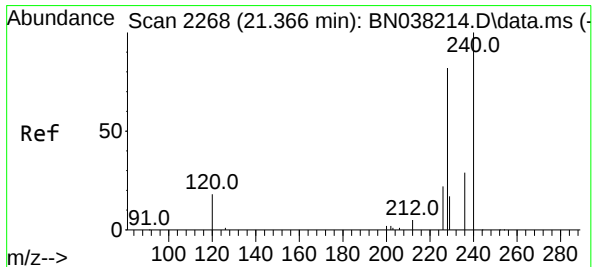
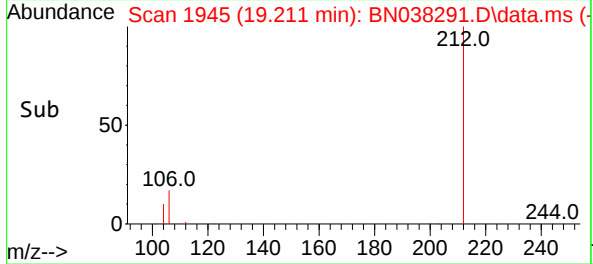
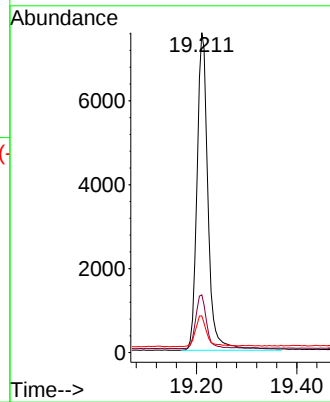
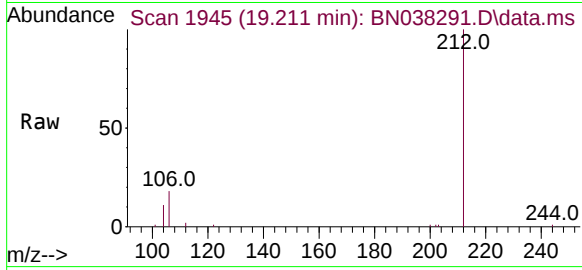
Tgt Ion:212 Resp: 11494

Ion Ratio Lower Upper

212 100

106 17.0 12.7 19.1

104 10.1 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 2268

Delta R.T. -0.000 min

Lab File: BN038291.D

Acq: 06 Dec 2025 02:08

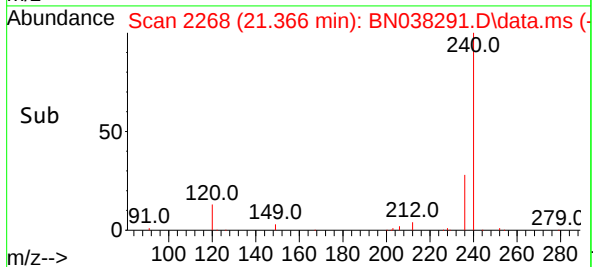
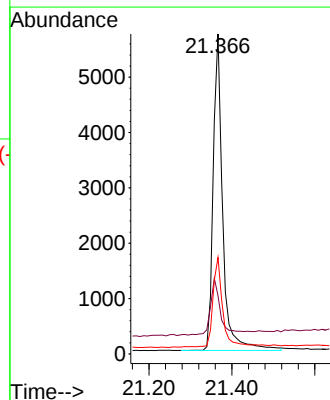
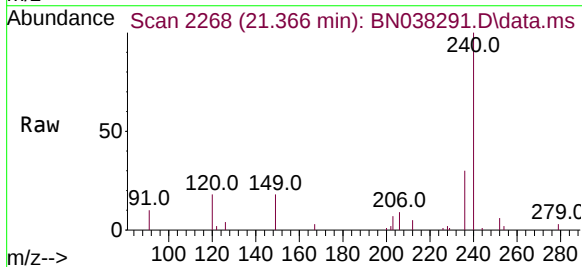
Tgt Ion:240 Resp: 9131

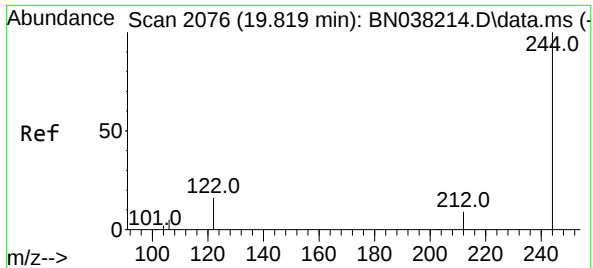
Ion Ratio Lower Upper

240 100

120 18.2 18.1 27.1

236 30.1 24.2 36.4

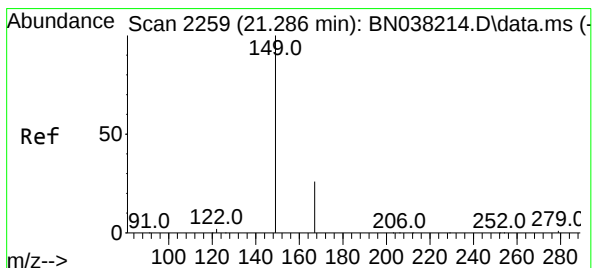
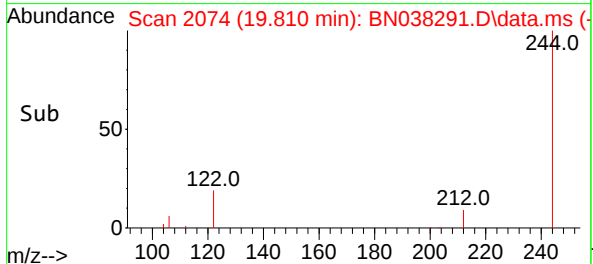
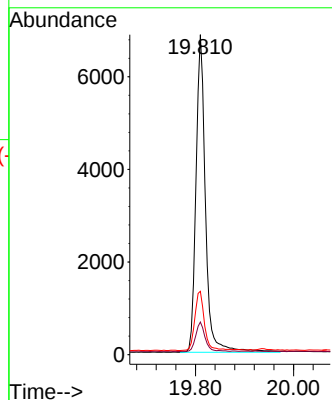
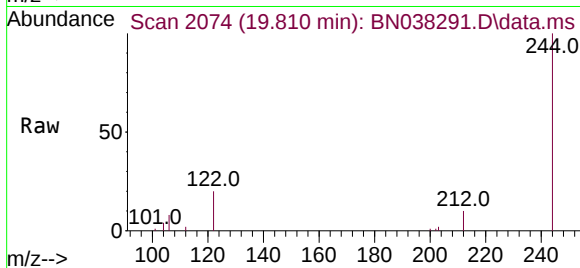




#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.810 min Scan# 2076
Delta R.T. -0.009 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

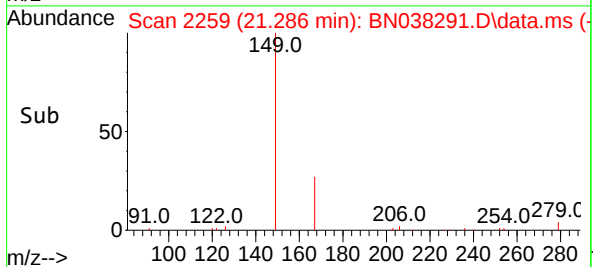
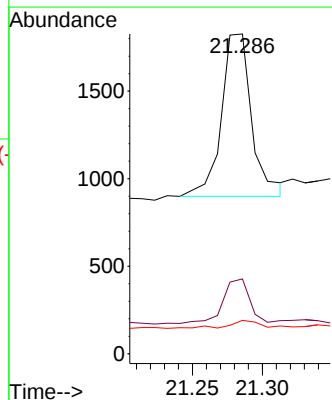
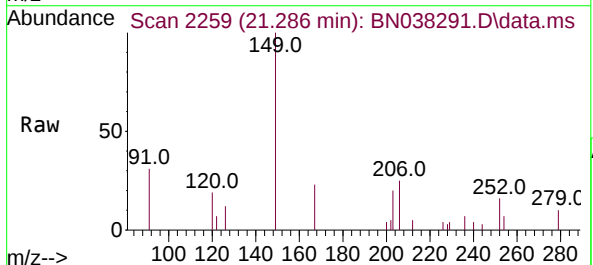
Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

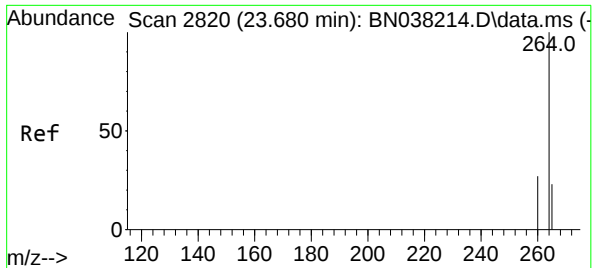
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.7	11.5
122	19.8	13.6	20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.083 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.7	31.1
279	5.5	2.5	3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.671 min Scan# 2817

Delta R.T. -0.009 min

Lab File: BN038291.D

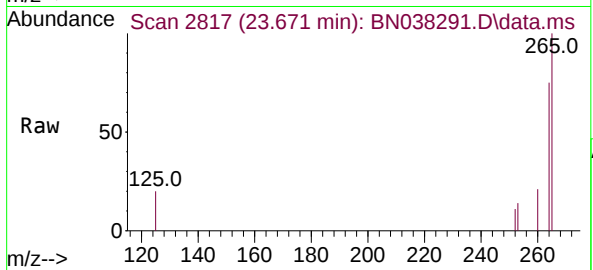
Acq: 06 Dec 2025 02:08

Instrument :

BNA_N

ClientSampleId :

OW-04B-26.5-120225



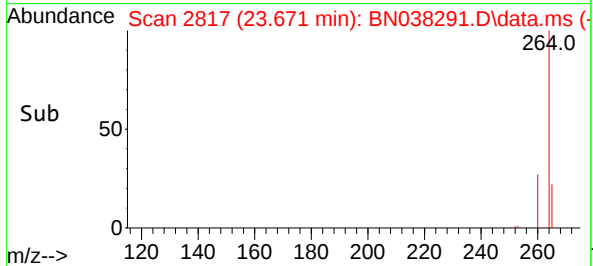
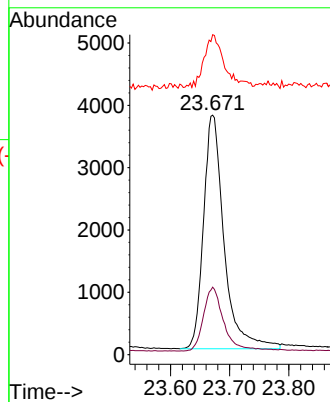
Tgt Ion:264 Resp: 9062

Ion Ratio Lower Upper

264 100

260 28.2 21.7 32.5

265 133.6 98.0 147.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038292.D
 Acq On : 06 Dec 2025 02:45
 Operator : RC/JU
 Sample : Q3756-03
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BR-01-190-120225

Quant Time: Dec 06 03:23:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

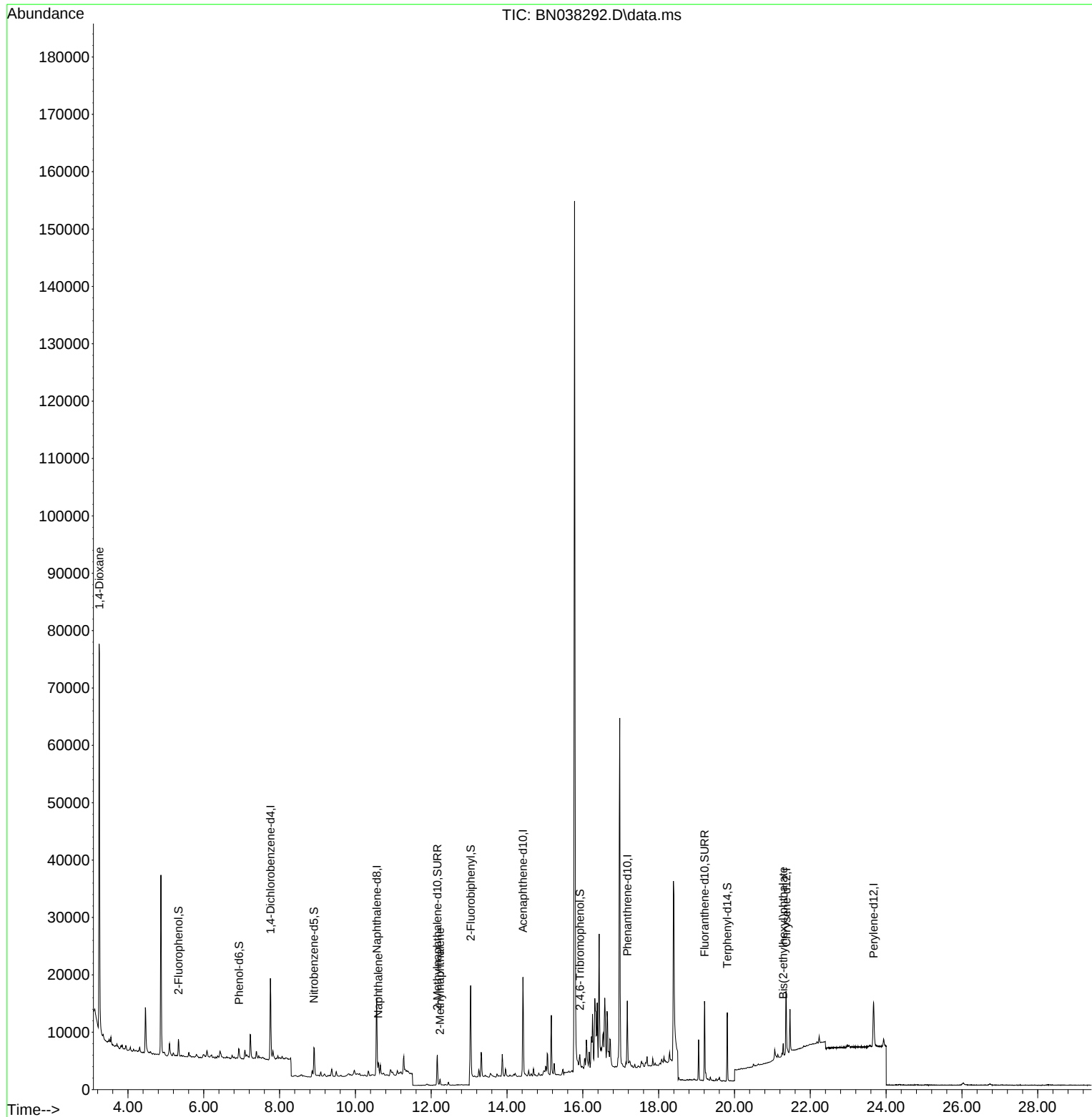
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6614	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18511	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	9412	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	15199	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	11302	0.400	ng	# 0.00
35) Perylene-d12	23.668	264	11529	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2324	0.150	ng	0.00
5) Phenol-d6	6.930	99	1715	0.089	ng	0.00
8) Nitrobenzene-d5	8.907	82	4814	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.161	152	7493	0.285	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1370	0.463	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	12474	0.343	ng	-0.01
27) Fluoranthene-d10	19.211	212	14055	0.426	ng	0.00
31) Terphenyl-d14	19.810	244	10834	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.246	88	41238	5.919	ng	98
9) Naphthalene	10.605	128	2979	0.058	ng	# 91
12) 2-Methylnaphthalene	12.232	142	719	0.021	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.286	149	2038	0.097	ng	# 98

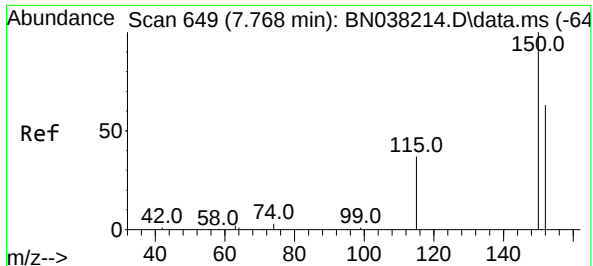
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038292.D
Acq On : 06 Dec 2025 02:45
Operator : RC/JU
Sample : Q3756-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

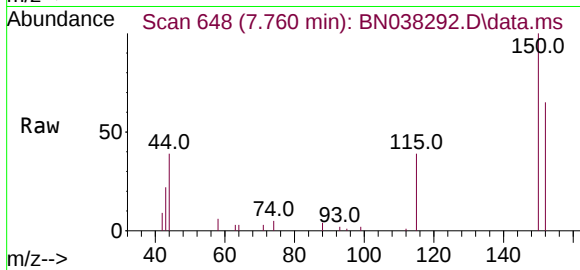
Quant Time: Dec 06 03:23:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



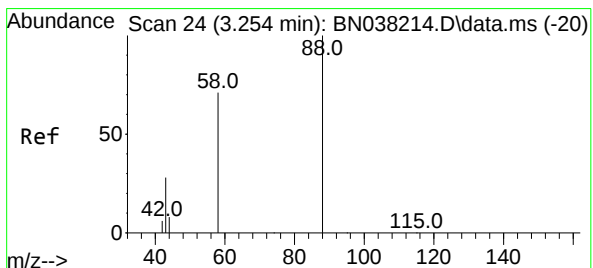
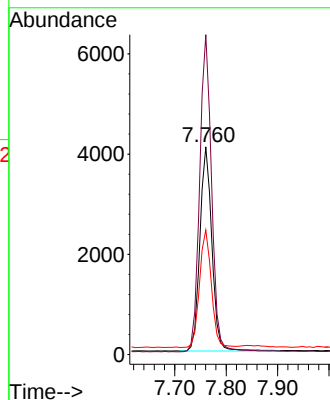
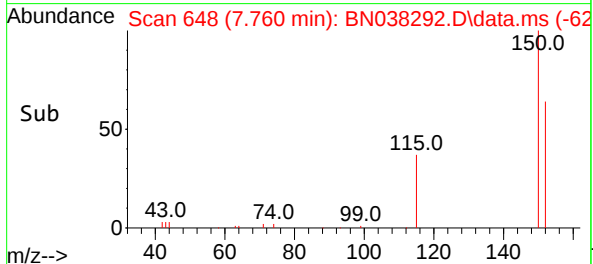


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

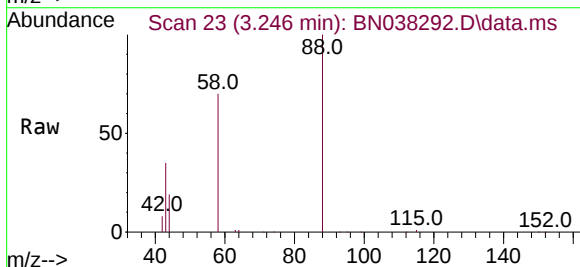
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225



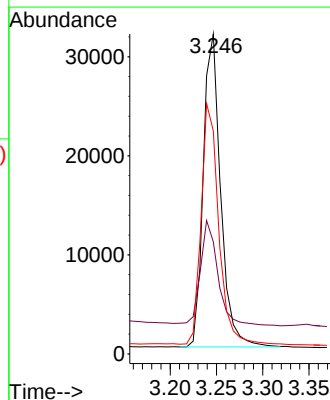
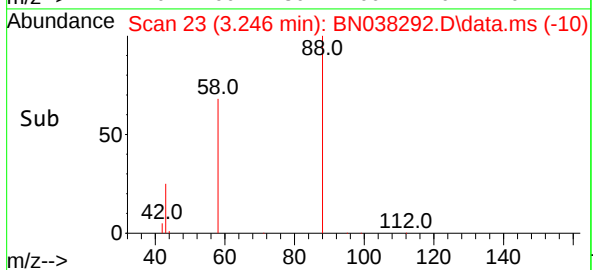
Tgt Ion:152 Resp: 6614
Ion Ratio Lower Upper
152 100
150 154.0 125.3 187.9
115 60.0 49.0 73.4

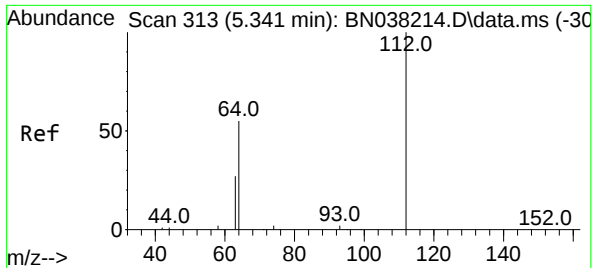


#2
1,4-Dioxane
Concen: 5.919 ng
RT: 3.246 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45



Tgt Ion: 88 Resp: 41238
Ion Ratio Lower Upper
88 100
43 34.4 24.8 37.2
58 77.0 61.1 91.7

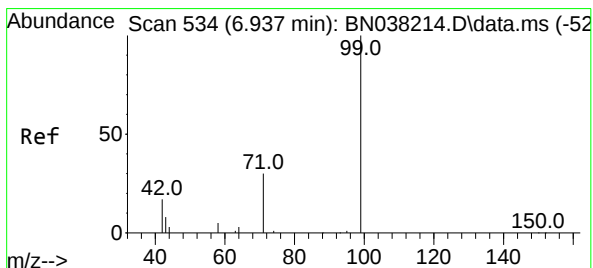
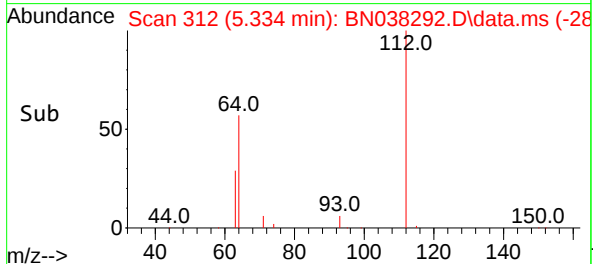
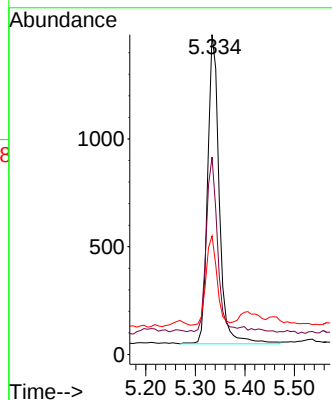
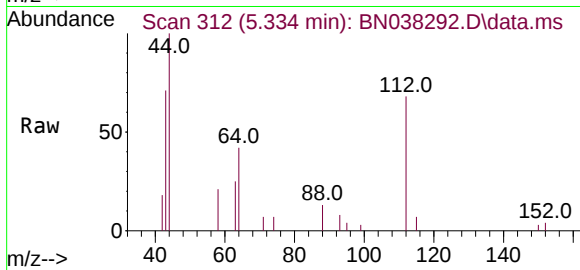




#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.334 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

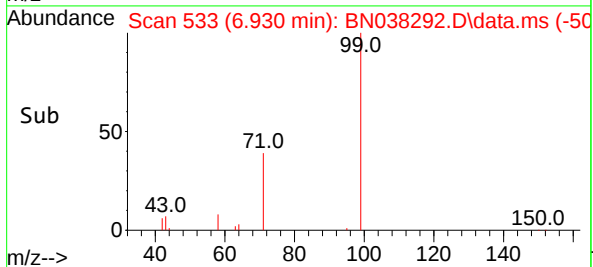
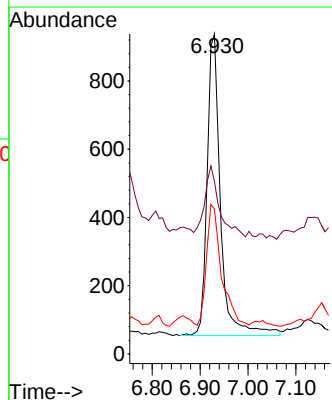
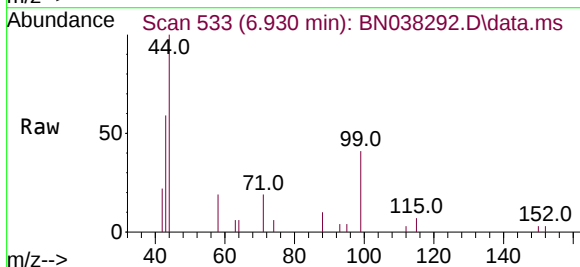
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

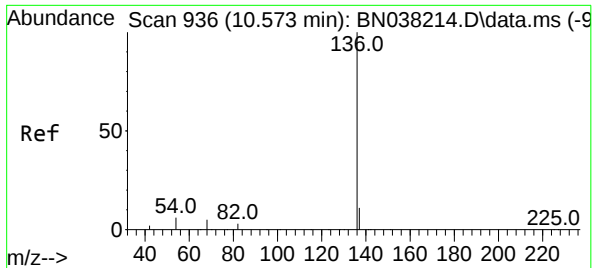
Tgt Ion:112 Resp: 2324
Ion Ratio Lower Upper
112 100
64 56.5 45.0 67.4
63 27.5 23.2 34.8



#5
Phenol-d6
Concen: 0.089 ng
RT: 6.930 min Scan# 533
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion: 99 Resp: 1715
Ion Ratio Lower Upper
99 100
42 25.8 17.0 25.6#
71 44.8 25.4 38.2#

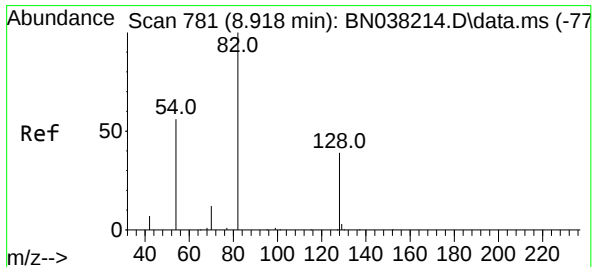
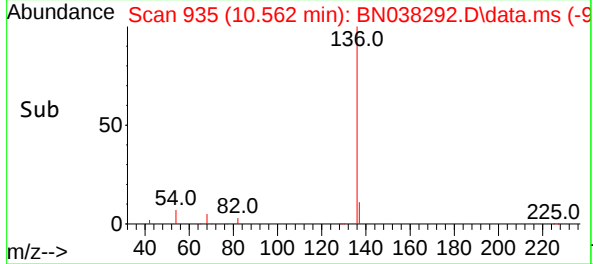
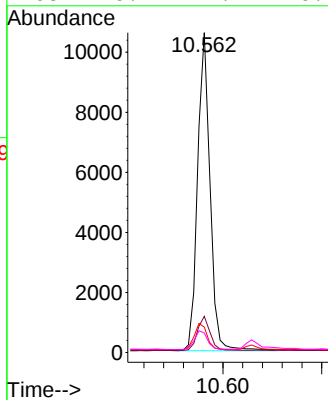
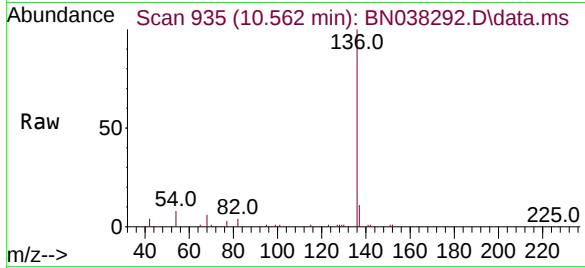




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 931
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

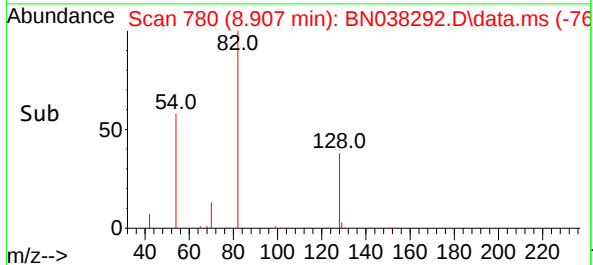
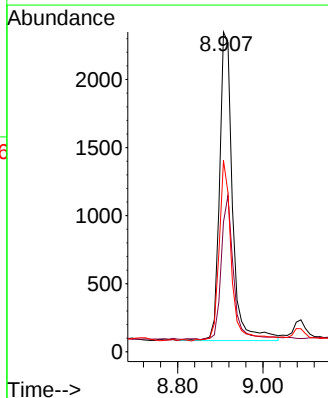
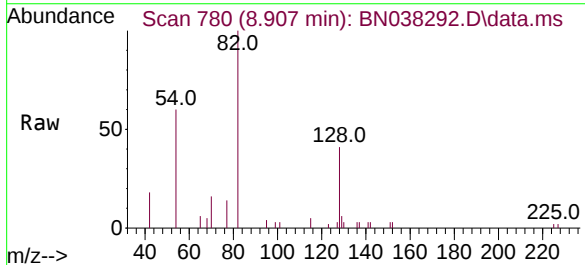
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

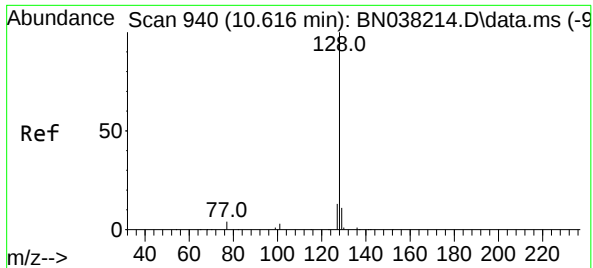
Tgt Ion:	136	Resp:	18511
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	8.0	5.4	8.0
68	6.1	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:	82	Resp:	4814
Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.6	48.8
54	59.8	45.4	68.0

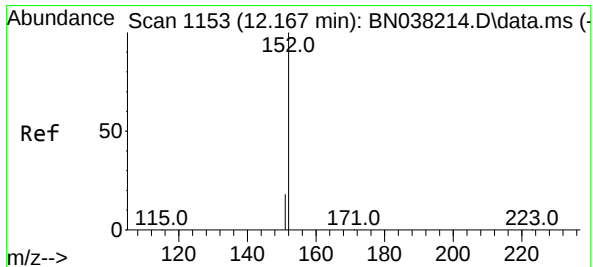
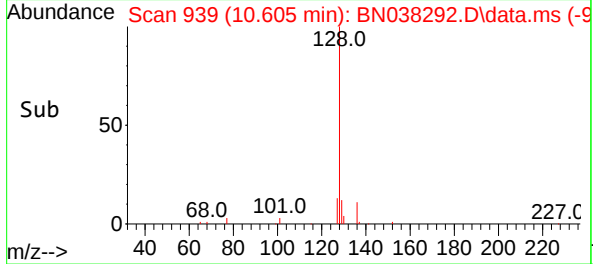
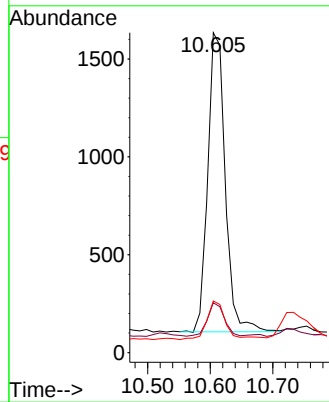
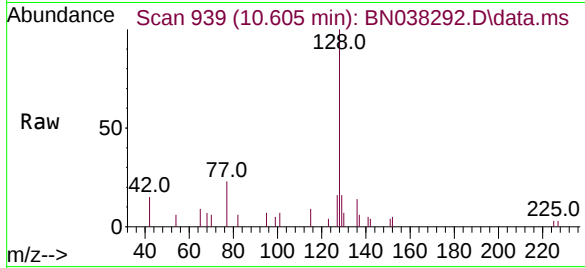




#9
Naphthalene
Concen: 0.058 ng
RT: 10.605 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

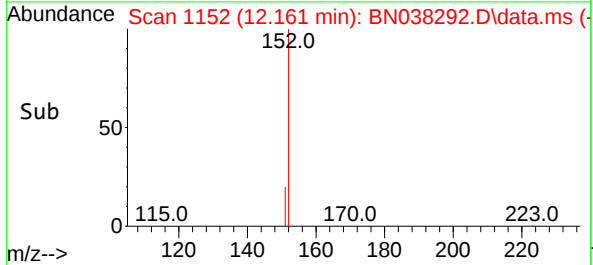
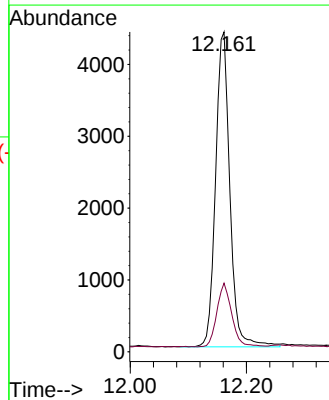
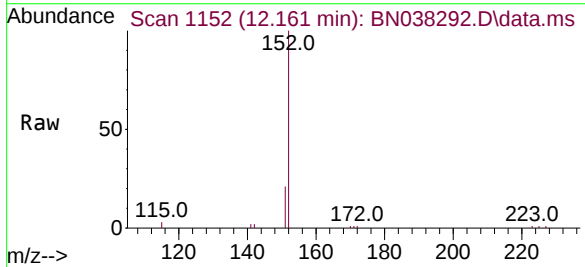
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

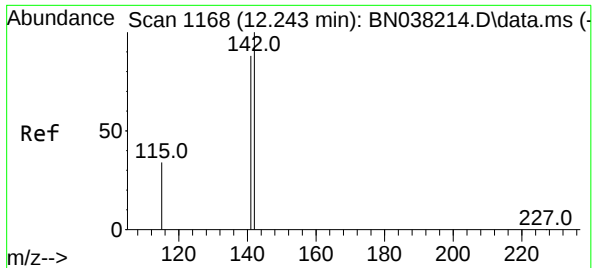
Tgt Ion	128	129	127
Resp:	2979		
Ion Ratio	100	15.6	16.1
Lower		9.1	10.6
Upper		13.7#	16.0#



#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion	152	151
Resp:	7493	
Ion Ratio	100	20.8
Lower		16.7
Upper		25.1





#12

2-Methylnaphthalene

Concen: 0.021 ng

RT: 12.232 min Scan# 1166

Delta R.T. -0.011 min

Lab File: BN038292.D

Acq: 06 Dec 2025 02:45

Instrument :

BNA_N

ClientSampleId :

BR-01-190-120225

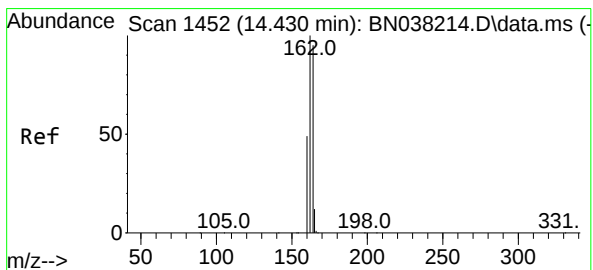
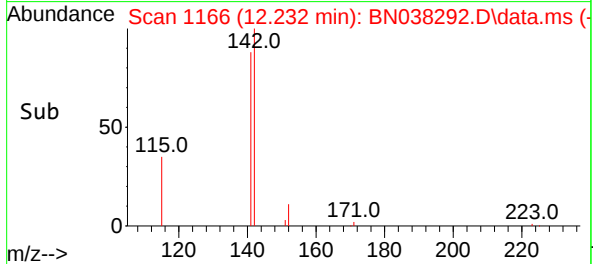
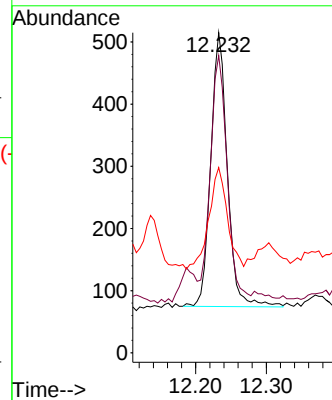
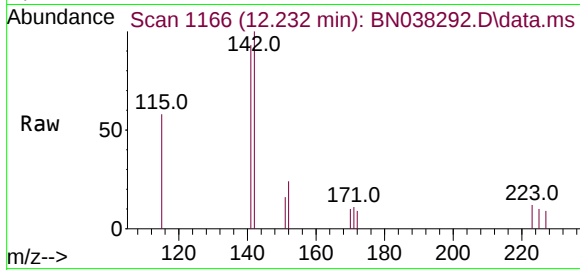
Tgt Ion:142 Resp: 719

Ion Ratio Lower Upper

142 100

141 92.8 70.9 106.3

115 57.9 27.7 41.5#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.420 min Scan# 1451

Delta R.T. -0.011 min

Lab File: BN038292.D

Acq: 06 Dec 2025 02:45

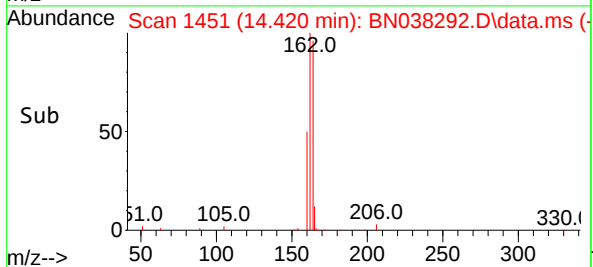
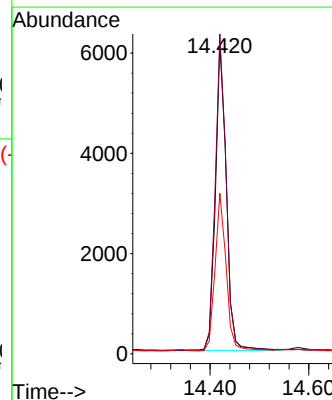
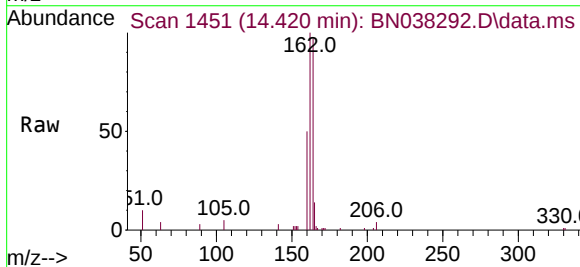
Tgt Ion:164 Resp: 9412

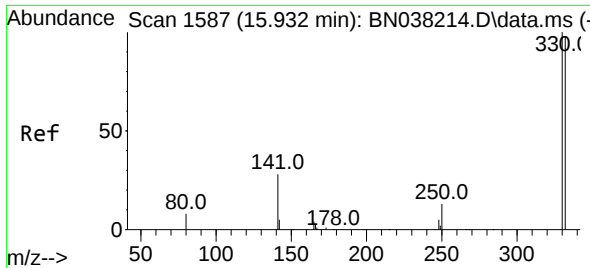
Ion Ratio Lower Upper

164 100

162 102.9 83.8 125.8

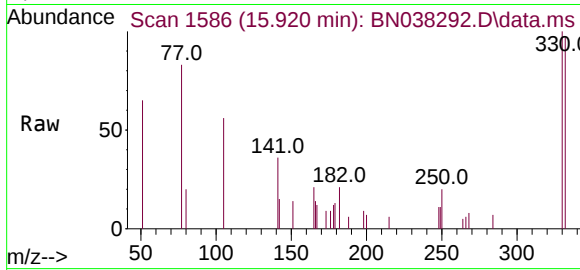
160 51.7 41.6 62.4



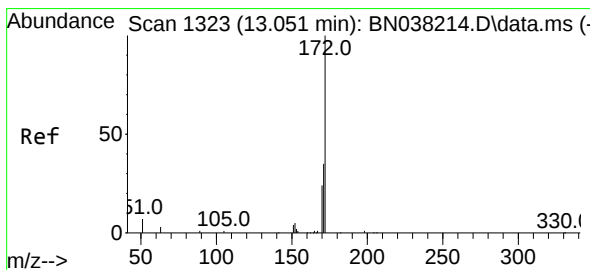
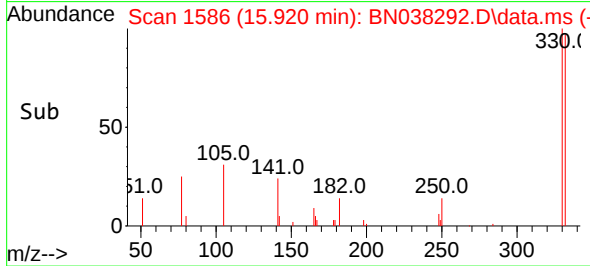
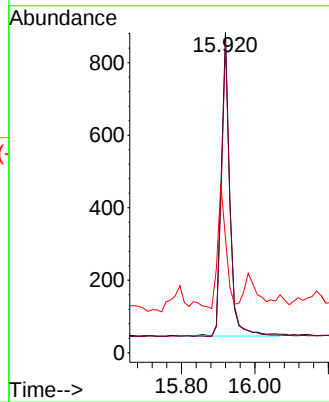


#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

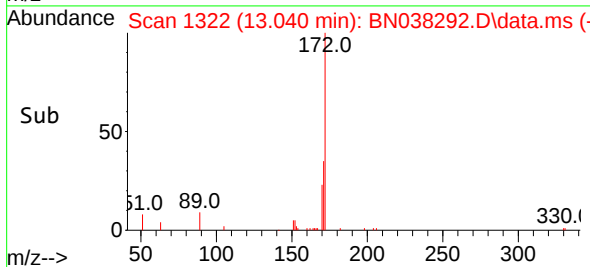
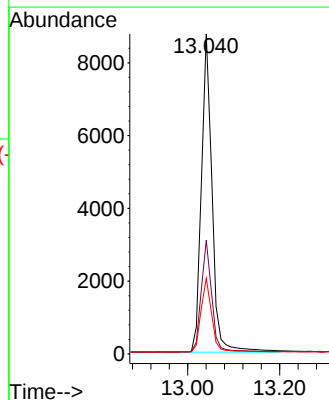
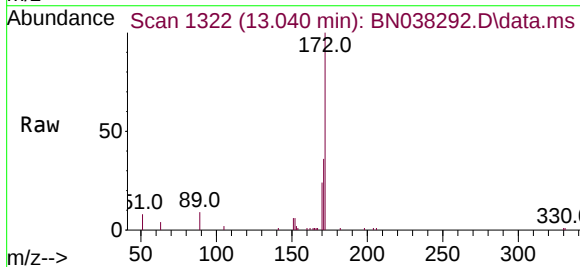


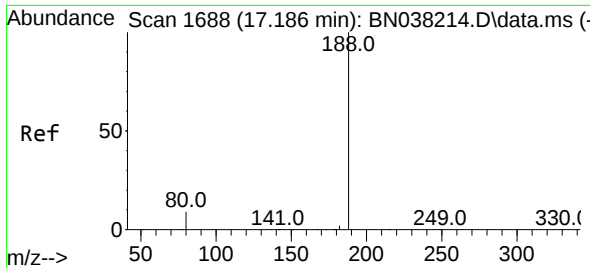
Tgt Ion: 330 Resp: 1370
Ion Ratio Lower Upper
330 100
332 96.1 77.8 116.6
141 37.7 33.0 49.4



#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 13.040 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion: 172 Resp: 12474
Ion Ratio Lower Upper
172 100
171 35.5 28.1 42.1
170 23.7 19.1 28.7

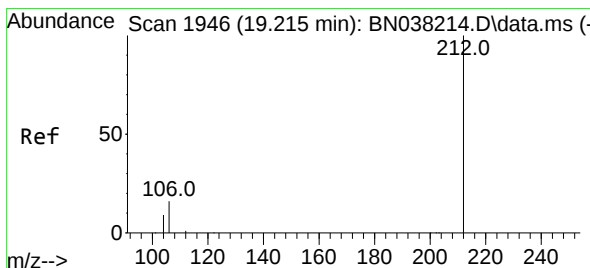
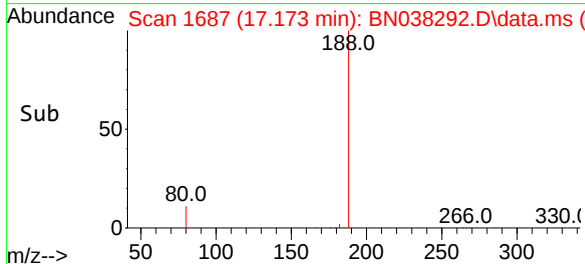
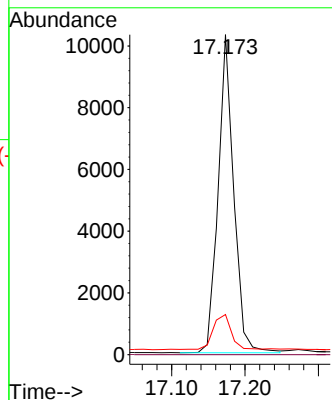
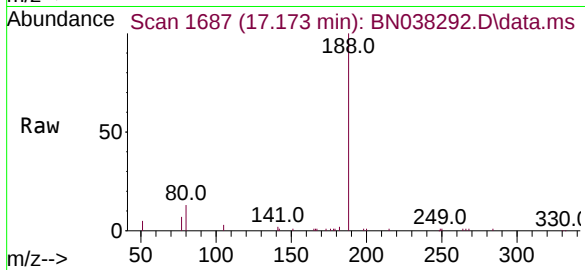




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

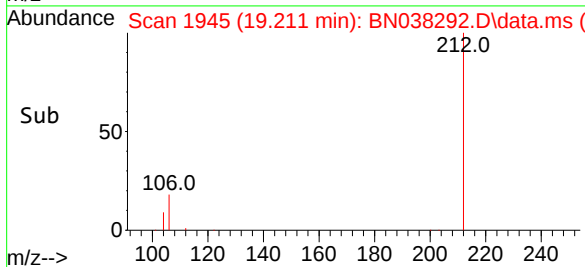
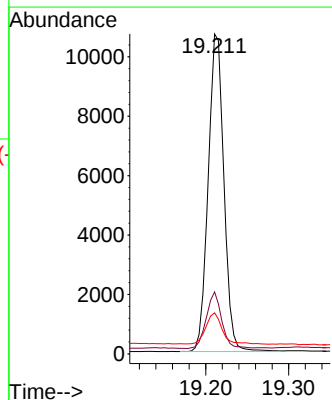
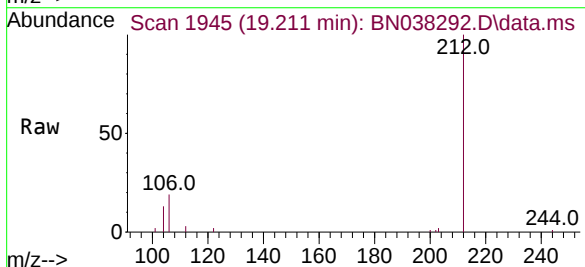
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

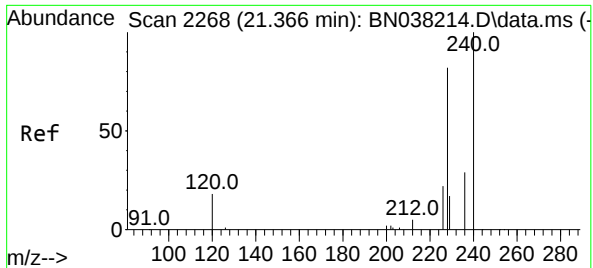
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	7.7	11.5



#27
Fluoranthene-d10
Concen: 0.426 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion	Ratio	Lower	Upper
212	100		
106	17.4	12.7	19.1
104	10.2	7.3	10.9





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038292.D

Acq: 06 Dec 2025 02:45

Instrument :

BNA_N

ClientSampleId :

BR-01-190-120225

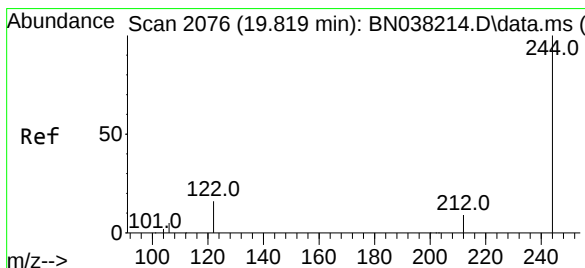
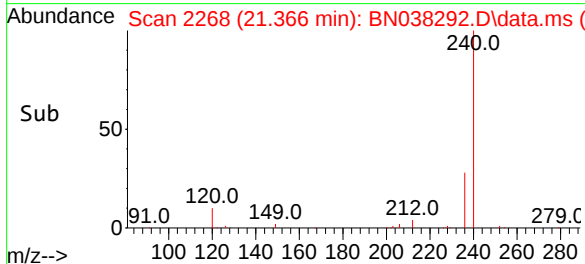
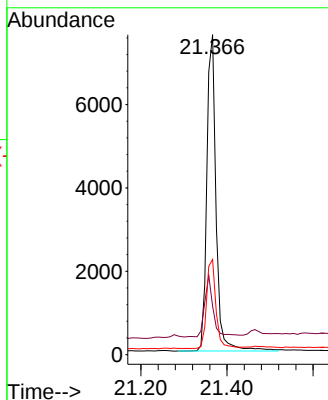
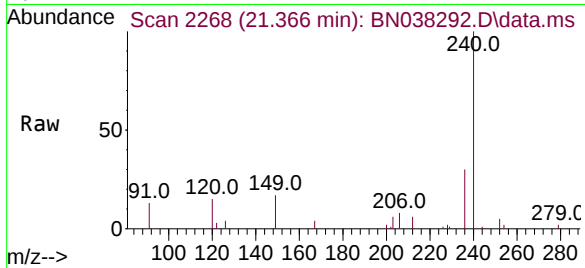
Tgt Ion:240 Resp: 11302

Ion Ratio Lower Upper

240 100

120 15.2 18.1 27.1#

236 29.7 24.2 36.4



#31

Terphenyl-d14

Concen: 0.415 ng

RT: 19.810 min Scan# 2074

Delta R.T. -0.009 min

Lab File: BN038292.D

Acq: 06 Dec 2025 02:45

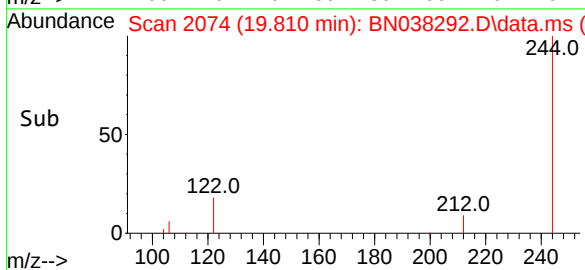
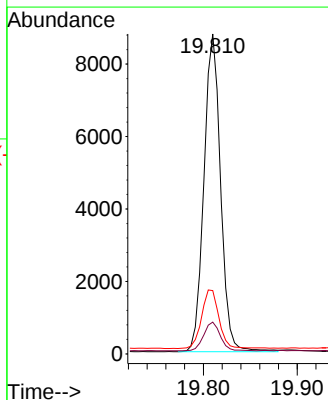
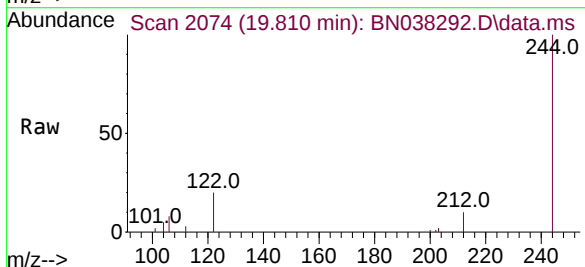
Tgt Ion:244 Resp: 10834

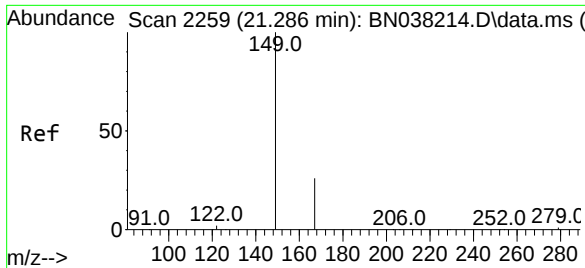
Ion Ratio Lower Upper

244 100

212 10.0 7.7 11.5

122 19.8 13.6 20.4

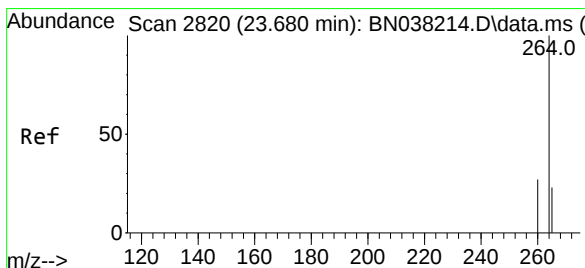
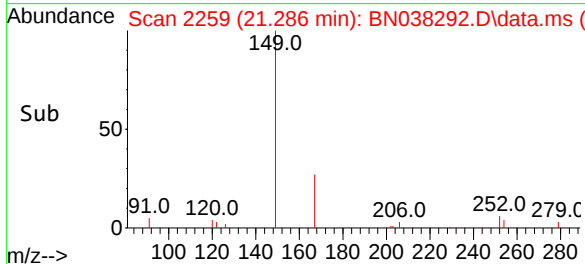
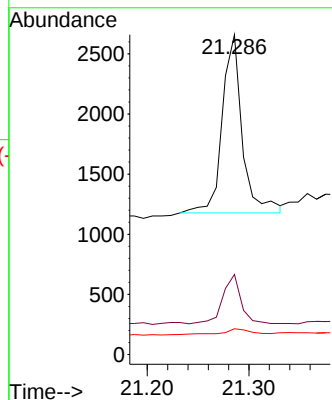
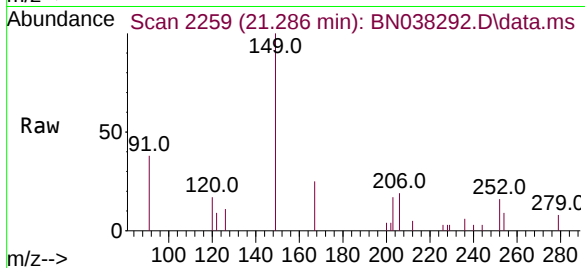




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.286 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

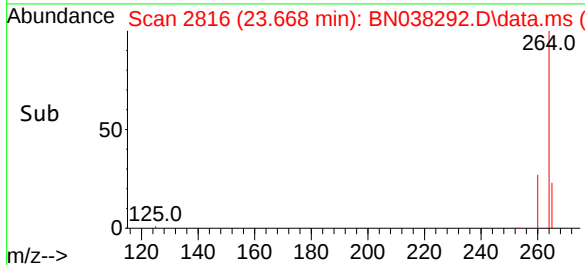
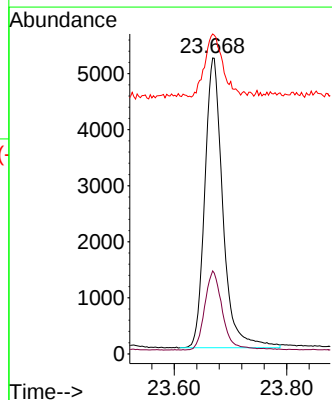
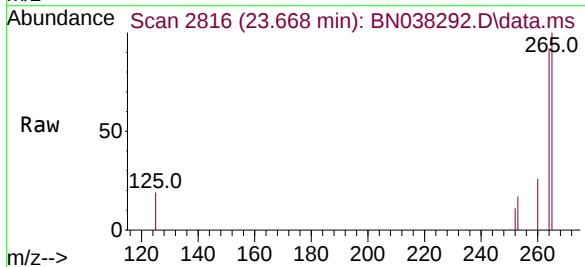
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:149 Resp: 2038
Ion Ratio Lower Upper
149 100
167 25.1 20.7 31.1
279 4.3 2.5 3.7#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.668 min Scan# 2816
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:264 Resp: 11529
Ion Ratio Lower Upper
264 100
260 28.0 21.7 32.5
265 108.1 98.0 147.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
 Data File : BN038332.D
 Acq On : 12 Dec 2025 01:13
 Operator : RC/JU
 Sample : Q3756-03DL 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BR-01-190-120225DL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 12 04:16:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Dec 10 13:56:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

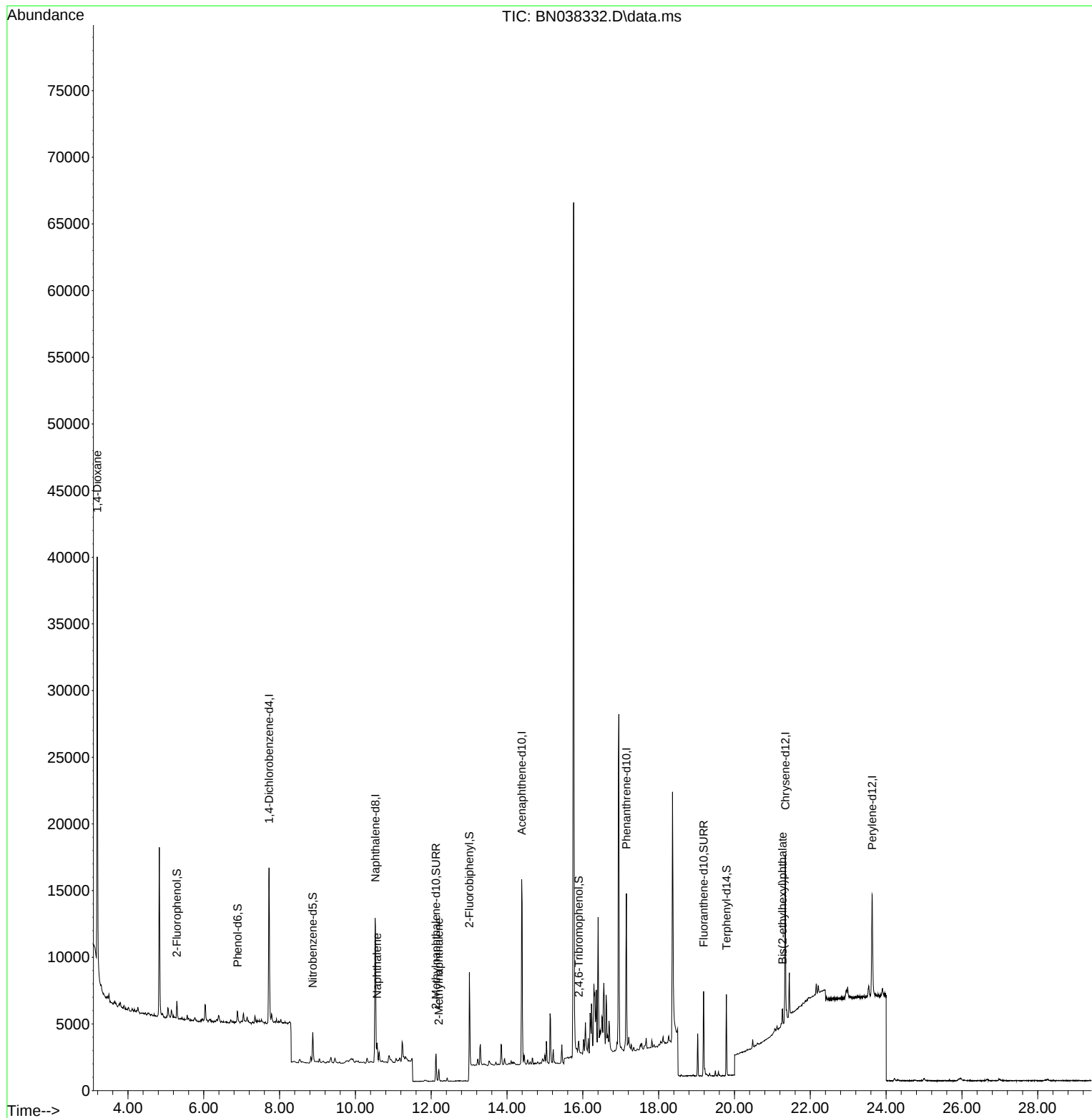
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.724	152	5762	0.400	ng	0.00
7) Naphthalene-d8	10.530	136	15461	0.400	ng	0.00
13) Acenaphthene-d10	14.388	164	8101	0.400	ng	-0.01
19) Phenanthrene-d10	17.149	188	15232	0.400	ng	0.00
29) Chrysene-d12	21.340	240	11067	0.400	ng	0.00
35) Perylene-d12	23.630	264	11044	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1060	0.074	ng	0.00
5) Phenol-d6	6.894	99	813	0.048	ng	0.00
8) Nitrobenzene-d5	8.875	82	1988	0.152	ng	0.00
11) 2-Methylnaphthalene-d10	12.126	152	2870	0.132	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	618	0.172	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	5793	0.148	ng	0.00
27) Fluoranthene-d10	19.187	212	6697	0.178	ng	0.00
31) Terphenyl-d14	19.787	244	5373	0.218	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.189	88	17328	2.623	ng	97
9) Naphthalene	10.573	128	1798	0.039	ng	# 88
12) 2-Methylnaphthalene	12.202	142	644	0.022	ng	# 83
34) Bis(2-ethylhexyl)phtha...	21.268	149	1375	0.059	ng	# 98

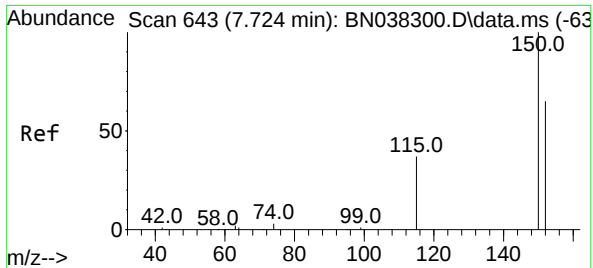
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038332.D
Acq On : 12 Dec 2025 01:13
Operator : RC/JU
Sample : Q3756-03DL 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Quant Time: Dec 12 04:16:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

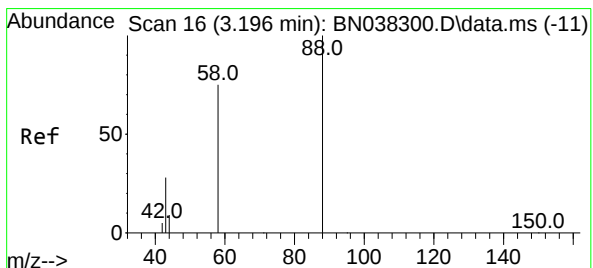
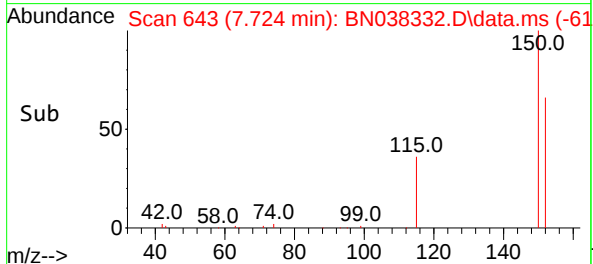
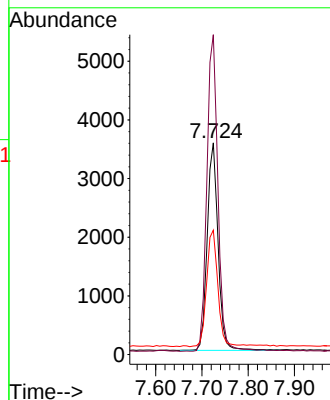
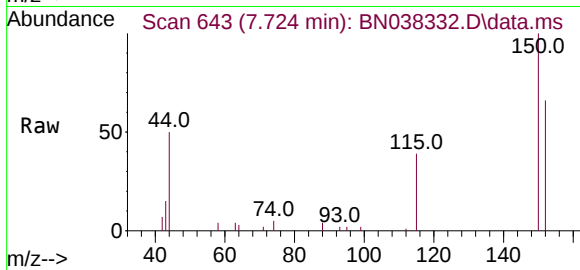




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

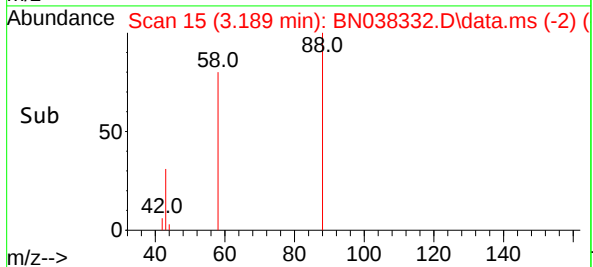
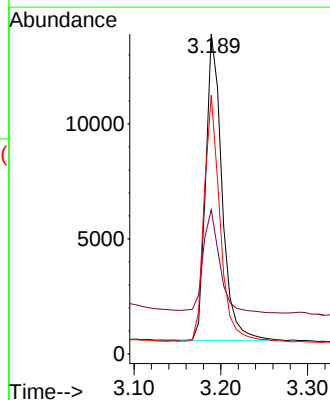
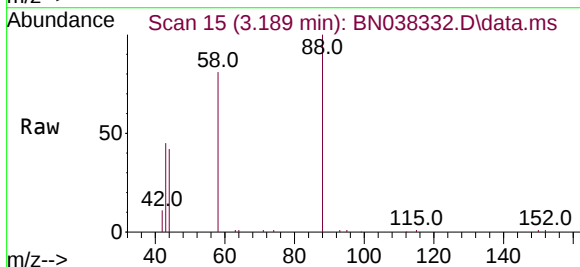
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

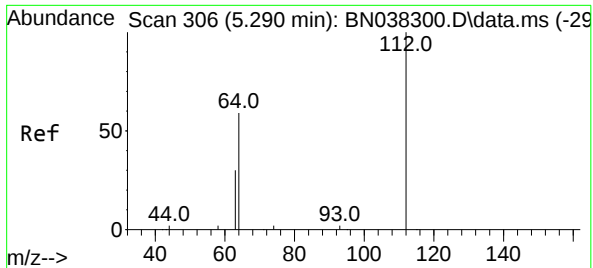
Tgt Ion: 152 Resp: 5762
Ion Ratio Lower Upper
152 100
150 151.1 122.4 183.6
115 58.7 47.3 70.9



#2
1,4-Dioxane
Concen: 2.623 ng
RT: 3.189 min Scan# 15
Delta R.T. -0.007 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion: 88 Resp: 17328
Ion Ratio Lower Upper
88 100
43 34.8 24.9 37.3
58 78.0 61.4 92.0

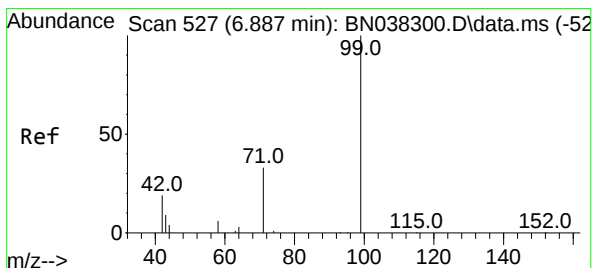
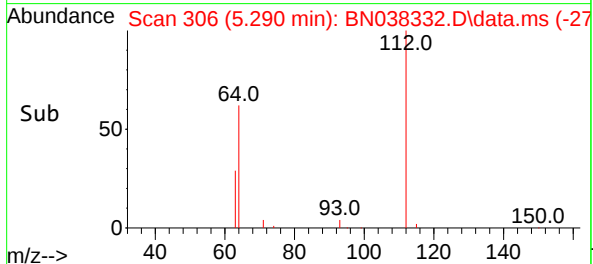
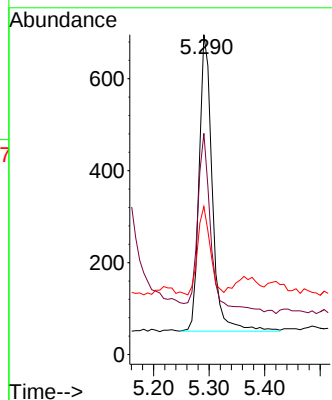
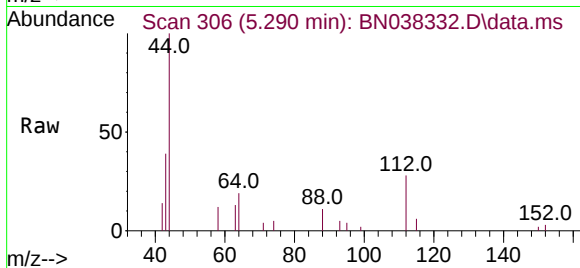




#4
2-Fluorophenol
Concen: 0.074 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

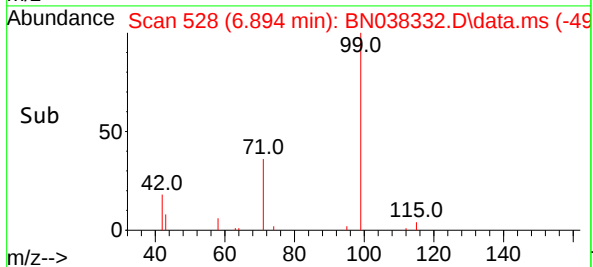
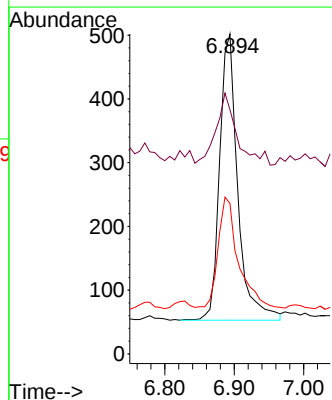
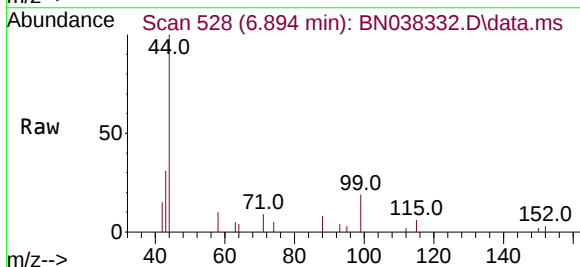
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

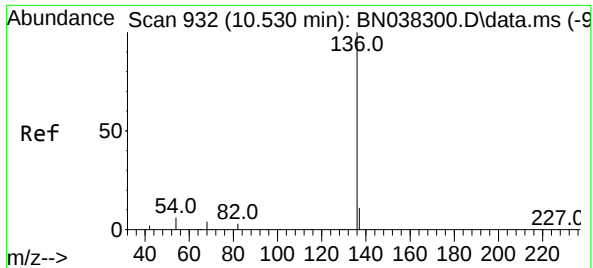
Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.1	44.4	66.6
63	28.0	23.4	35.0



#5
Phenol-d6
Concen: 0.048 ng
RT: 6.894 min Scan# 528
Delta R.T. 0.007 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion	Ratio	Lower	Upper
99	100		
42	28.5	16.5	24.7#
71	44.6	24.9	37.3#

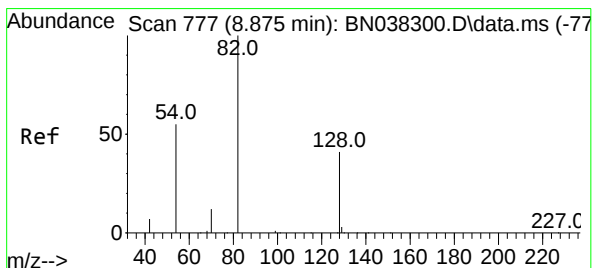
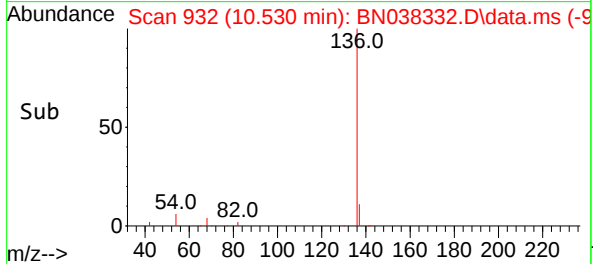
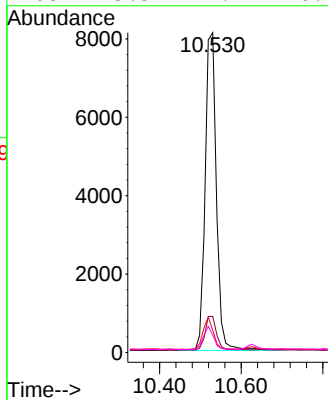
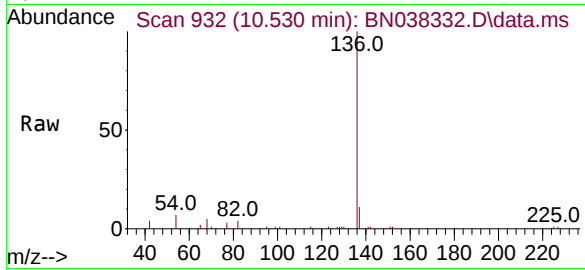




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 932
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

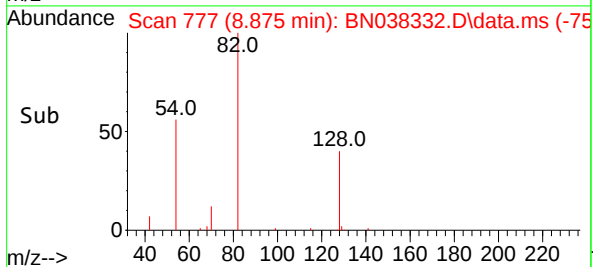
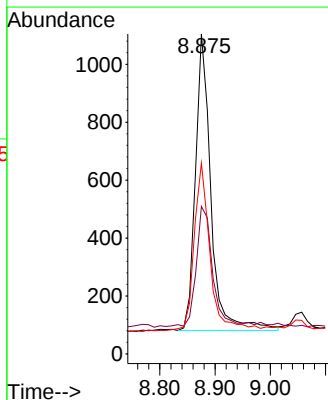
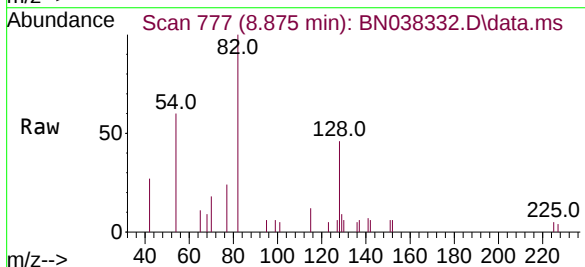
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

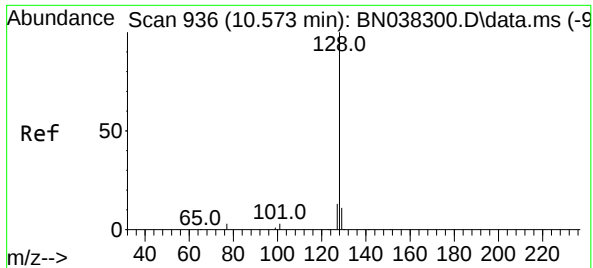
Tgt Ion:	136	Resp:	15461
Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.0	5.2	7.8
68	5.5	4.1	6.1



#8
Nitrobenzene-d5
Concen: 0.152 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:	82	Resp:	1988
Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.0	51.0
54	59.6	44.4	66.6

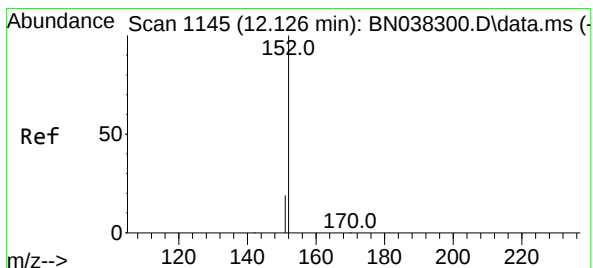
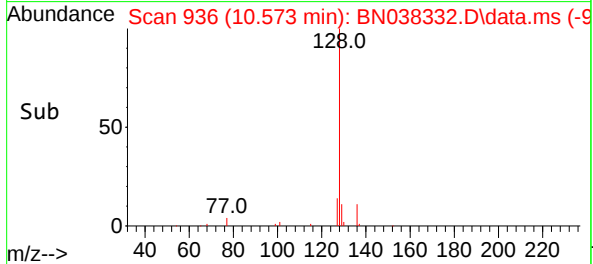
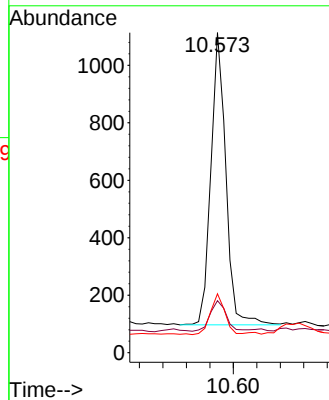
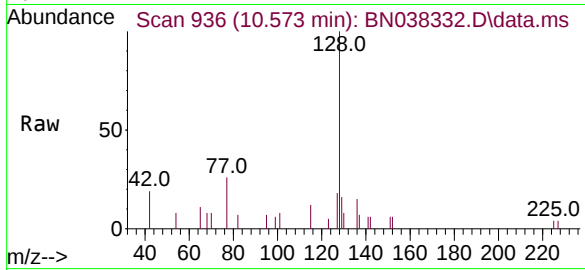




#9
Naphthalene
Concen: 0.039 ng
RT: 10.573 min Scan# 936
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

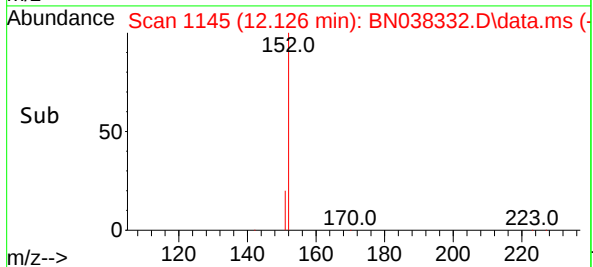
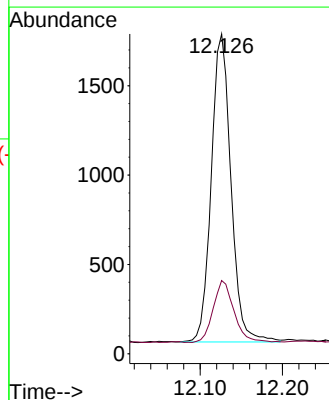
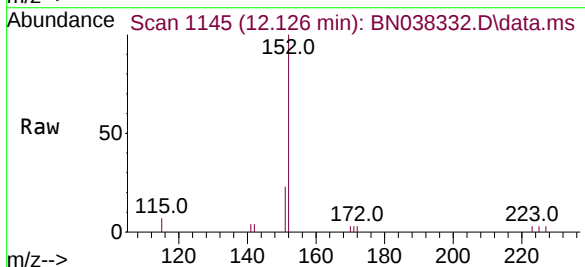
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

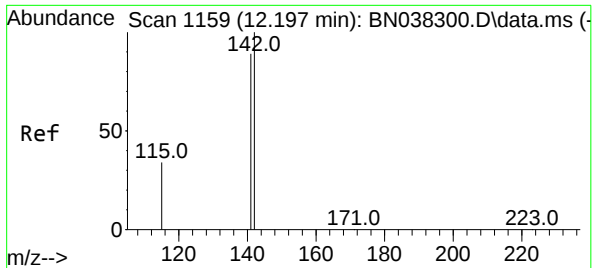
Tgt Ion:	128	Resp:	1798
Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.1	13.7#
127	18.4	10.9	16.3#



#11
2-Methylnaphthalene-d10
Concen: 0.132 ng
RT: 12.126 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:	152	Resp:	2870
Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6





#12

2-Methylnaphthalene

Concen: 0.022 ng

RT: 12.202 min Scan# 1160

Delta R.T. 0.000 min

Lab File: BN038332.D

Acq: 12 Dec 2025 01:13

Instrument :

BNA_N

ClientSampleId :

BR-01-190-120225DL

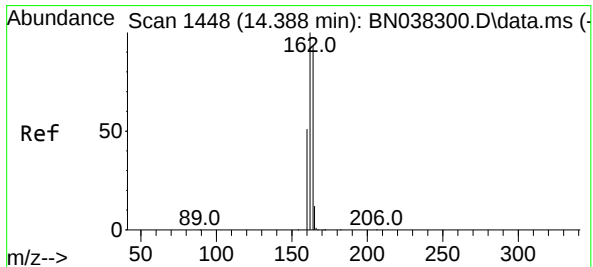
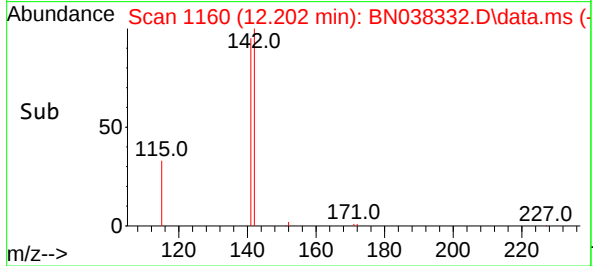
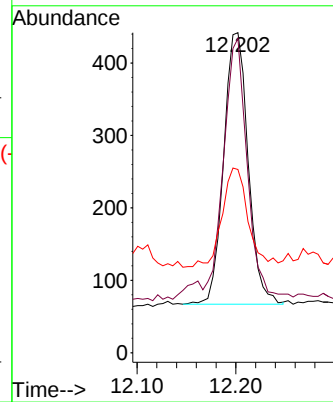
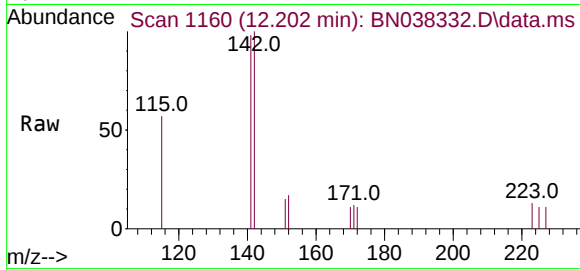
Tgt Ion:142 Resp: 644

Ion Ratio Lower Upper

142 100

141 98.2 71.4 107.2

115 57.2 28.4 42.6#



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.388 min Scan# 1448

Delta R.T. -0.011 min

Lab File: BN038332.D

Acq: 12 Dec 2025 01:13

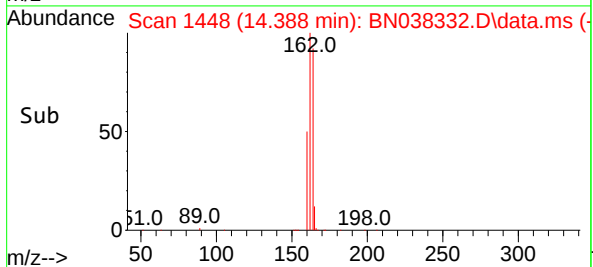
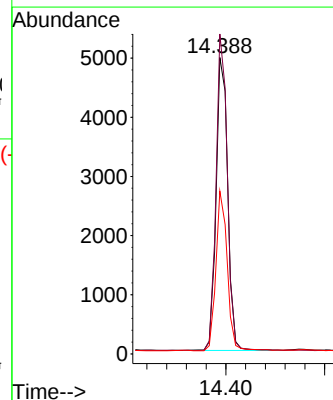
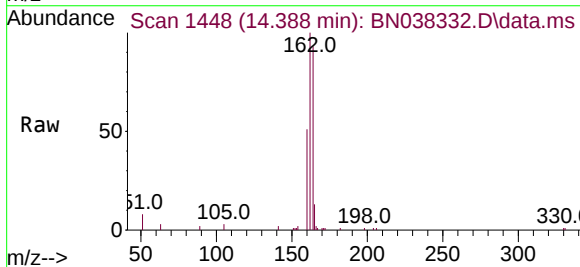
Tgt Ion:164 Resp: 8101

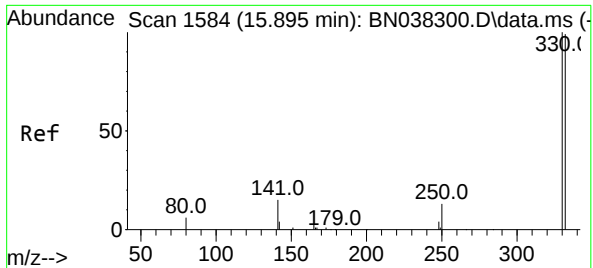
Ion Ratio Lower Upper

164 100

162 107.9 86.2 129.4

160 54.9 44.6 67.0

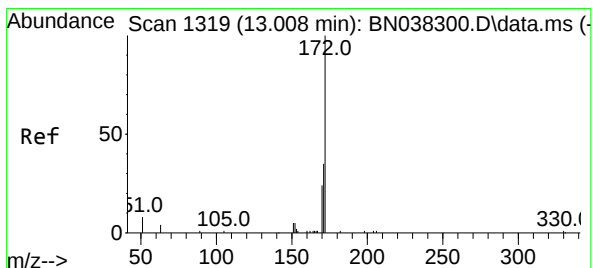
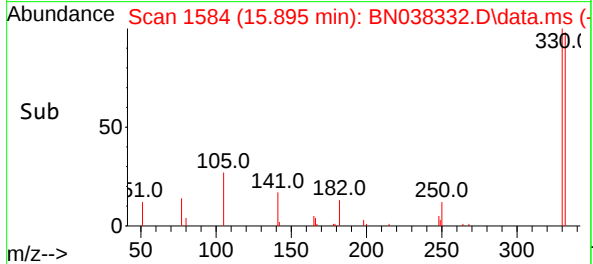
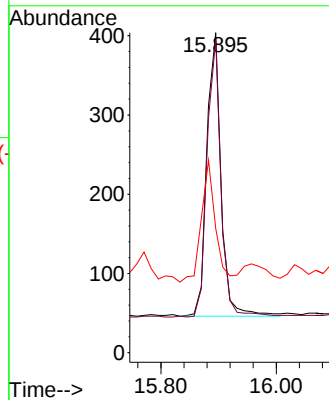
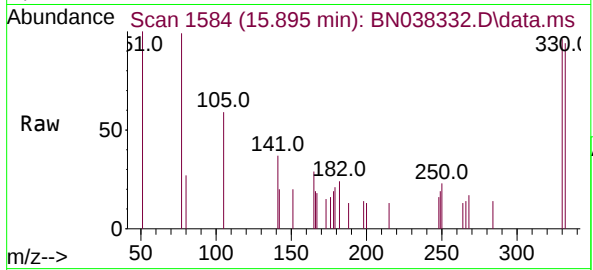




#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

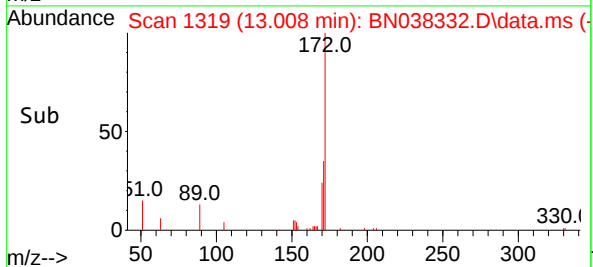
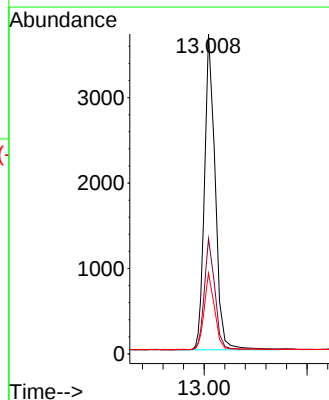
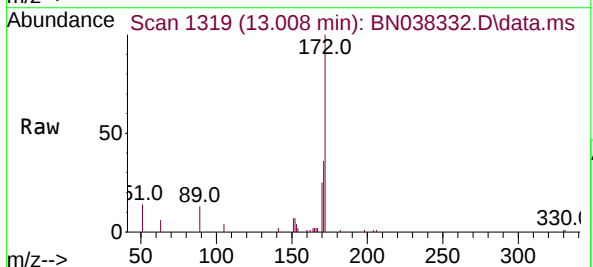
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

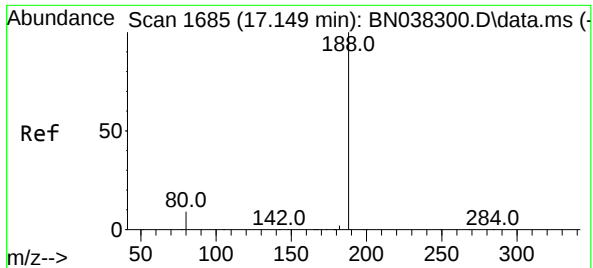
Tgt Ion:	330	Resp:	618
Ion Ratio	Lower	Upper	
330	100		
332	95.3	75.8	113.6
141	41.4	31.8	47.8



#15
2-Fluorobiphenyl
Concen: 0.148 ng
RT: 13.008 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:	172	Resp:	5793
Ion Ratio	Lower	Upper	
172	100		
171	36.0	28.6	42.8
170	25.3	19.3	28.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.149 min Scan# 10

Delta R.T. 0.000 min

Lab File: BN038332.D

Acq: 12 Dec 2025 01:13

Instrument :

BNA_N

ClientSampleId :

BR-01-190-120225DL

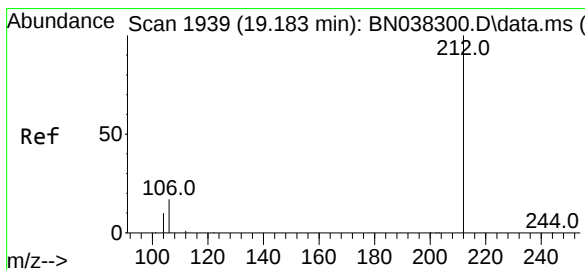
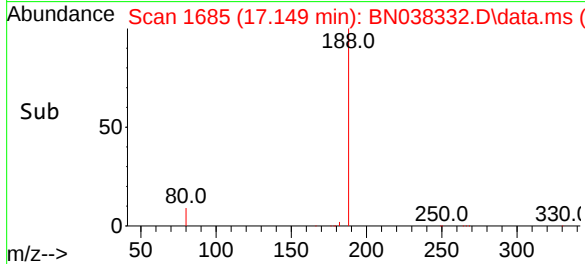
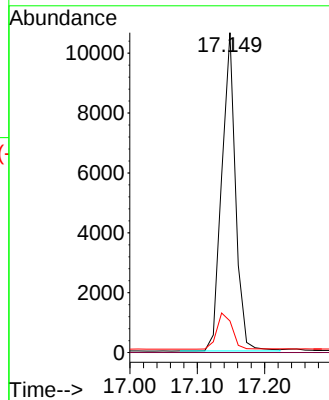
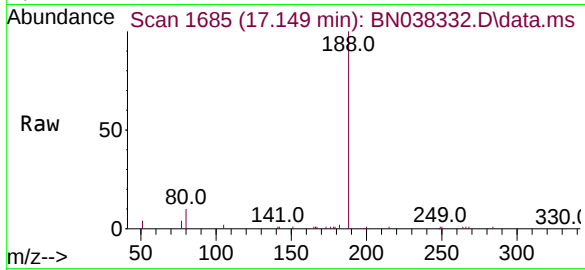
Tgt Ion:188 Resp: 15232

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 7.4 11.0



#27

Fluoranthene-d10

Concen: 0.178 ng

RT: 19.187 min Scan# 1940

Delta R.T. 0.000 min

Lab File: BN038332.D

Acq: 12 Dec 2025 01:13

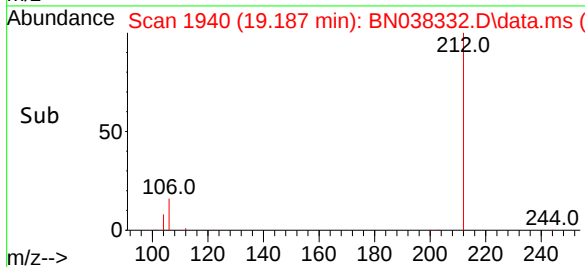
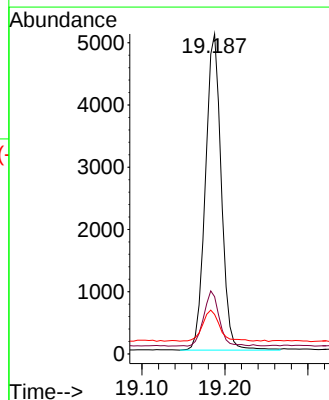
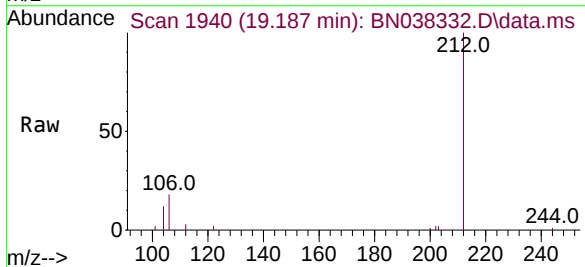
Tgt Ion:212 Resp: 6697

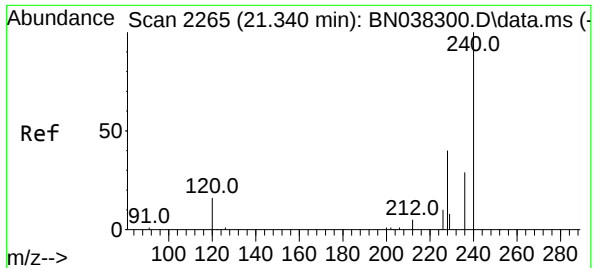
Ion Ratio Lower Upper

212 100

106 16.9 13.7 20.5

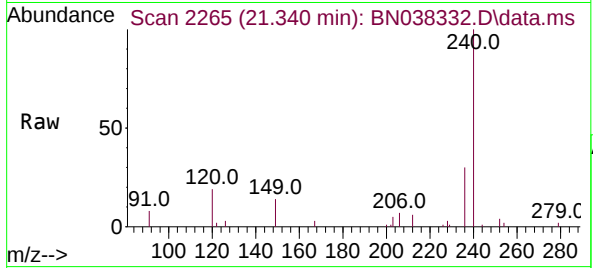
104 10.4 7.8 11.8



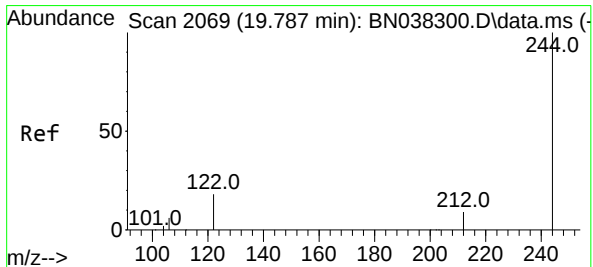
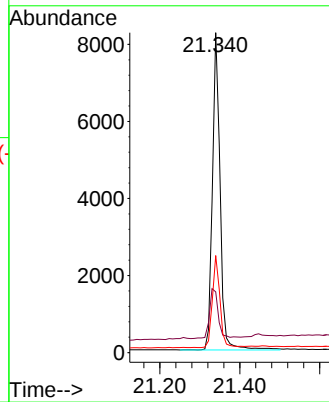
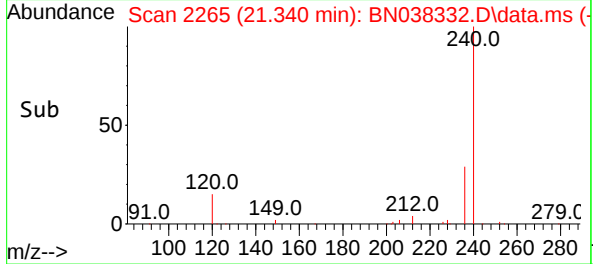


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

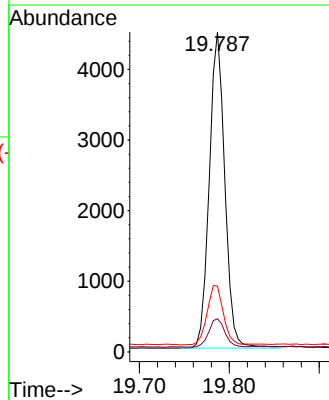
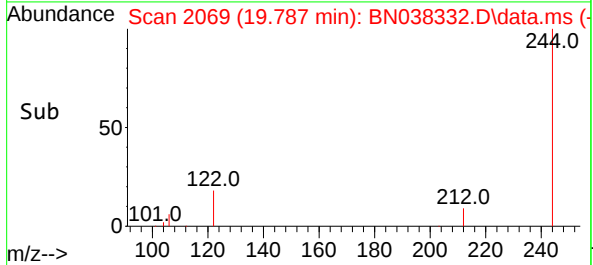
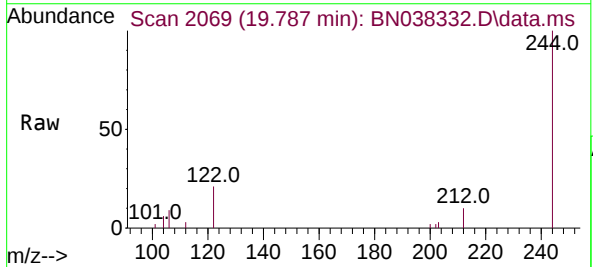


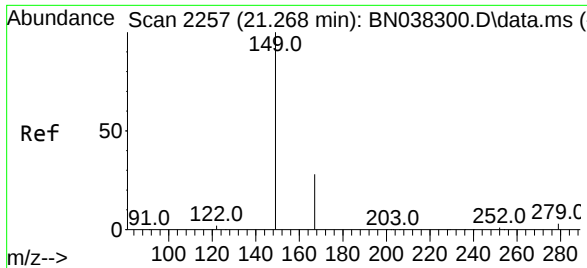
Tgt Ion:	240	Resp:	11067
Ion Ratio	Lower	Upper	
240	100		
120	19.0	15.4	23.2
236	30.3	23.9	35.9



#31
Terphenyl-d14
Concen: 0.218 ng
RT: 19.787 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:	244	Resp:	5373
Ion Ratio	Lower	Upper	
244	100		
212	10.3	7.9	11.9
122	20.6	15.0	22.6

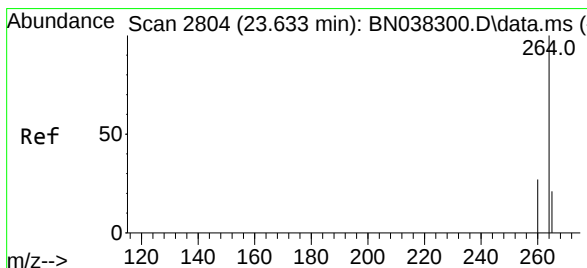
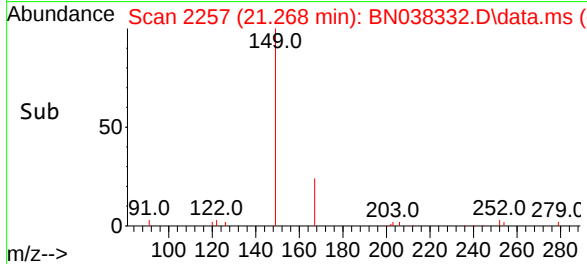
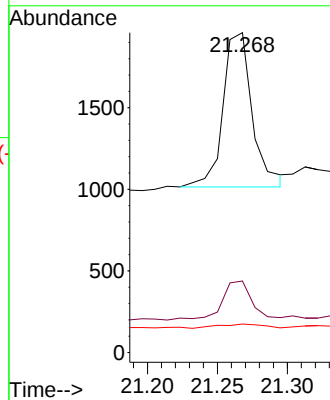
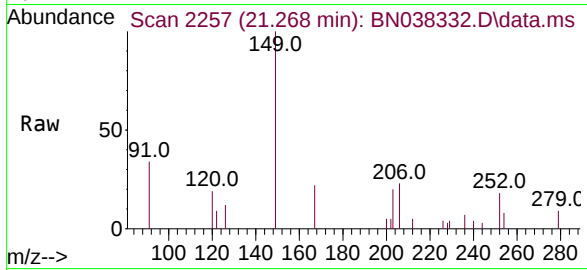




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.268 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

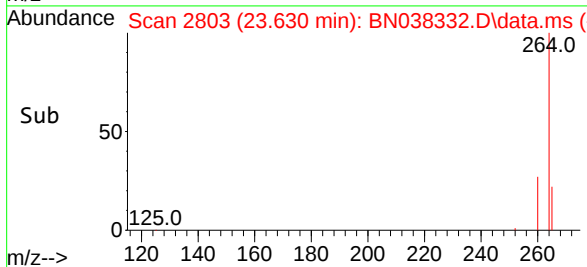
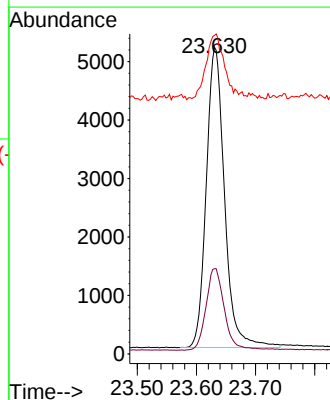
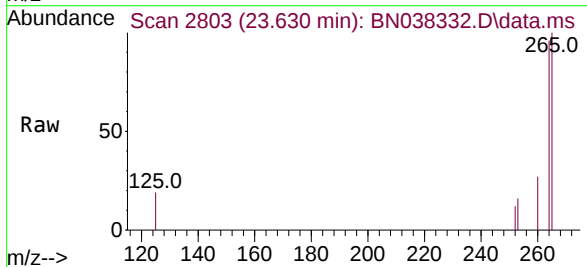
Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:149 Resp: 1375
Ion Ratio Lower Upper
149 100
167 27.6 21.4 32.0
279 4.4 2.4 3.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.630 min Scan# 2803
Delta R.T. -0.003 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:264 Resp: 11044
Ion Ratio Lower Upper
264 100
260 27.8 22.2 33.2
265 103.8 80.2 120.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038293.D
 Acq On : 06 Dec 2025 03:21
 Operator : RC/JU
 Sample : Q3756-05
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-04-12-120225

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 06 05:25:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

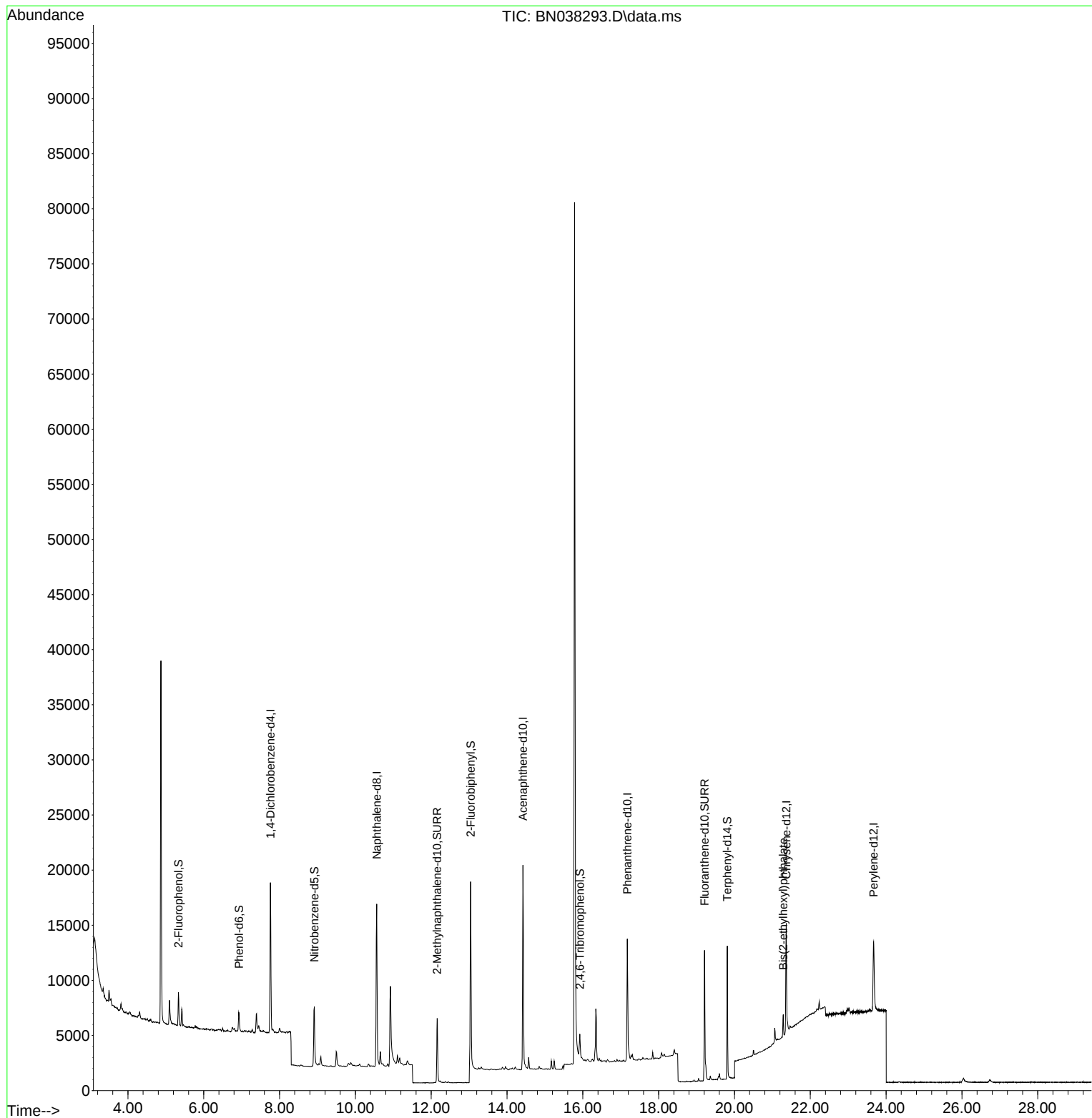
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6896	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	20829	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	11092	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	16516	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9936	0.400	ng	# 0.00
35) Perylene-d12	23.671	264	9902	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2540	0.158	ng	0.00
5) Phenol-d6	6.930	99	1950	0.097	ng	0.00
8) Nitrobenzene-d5	8.918	82	5152	0.309	ng	0.00
11) 2-Methylnaphthalene-d10	12.156	152	8679	0.294	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1383	0.396	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	14466	0.338	ng	-0.01
27) Fluoranthene-d10	19.211	212	13393	0.374	ng	0.00
31) Terphenyl-d14	19.810	244	11887	0.518	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.286	149	2078	0.113	ng	Qvalue # 99

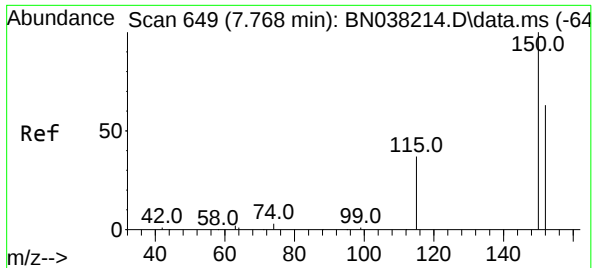
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038293.D
Acq On : 06 Dec 2025 03:21
Operator : RC/JU
Sample : Q3756-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 06 05:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

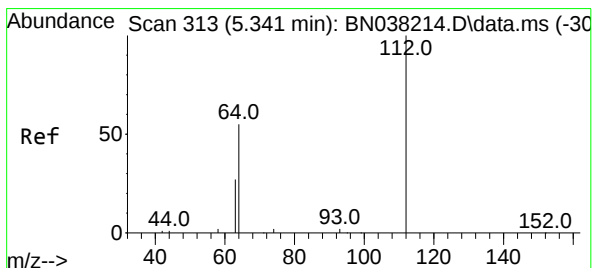
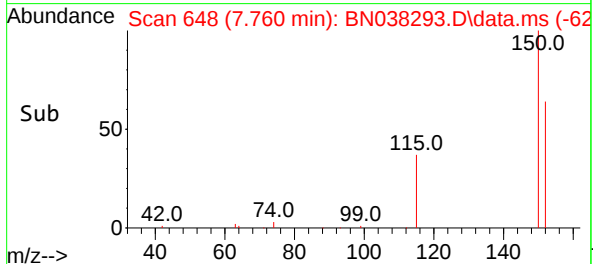
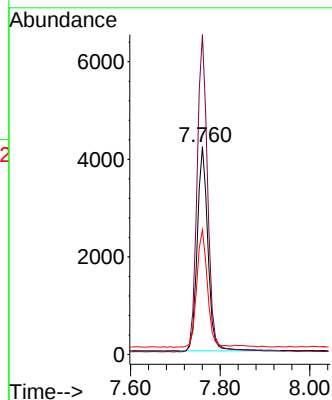
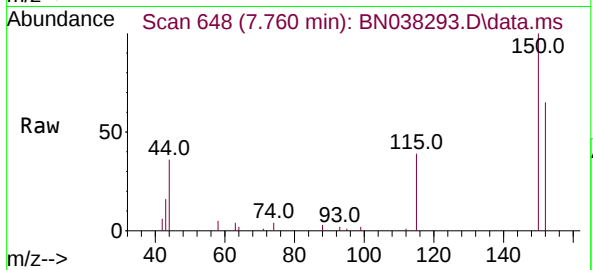




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 649
Delta R.T. -0.008 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

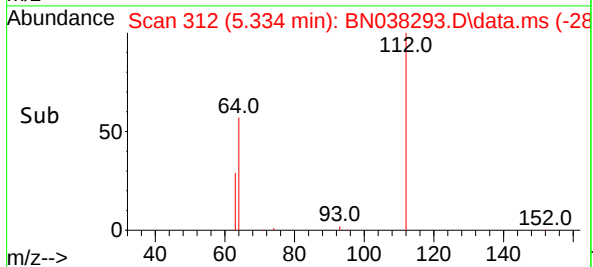
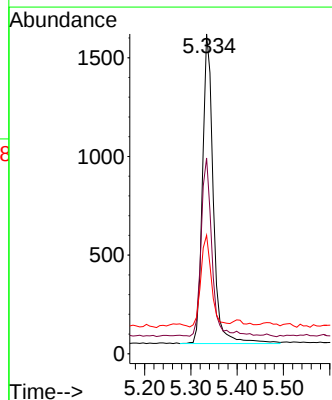
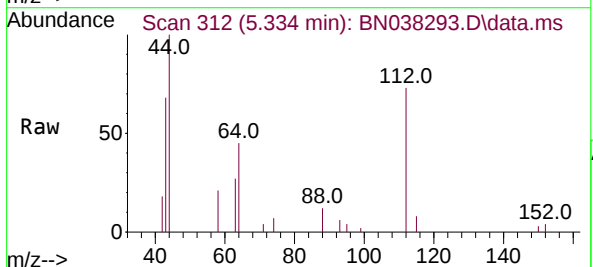
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

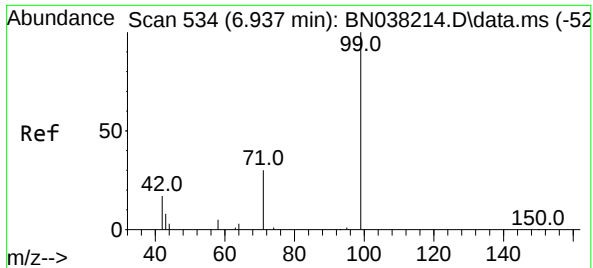
Tgt Ion:152 Resp: 6896
Ion Ratio Lower Upper
152 100
150 154.0 125.3 187.9
115 60.1 49.0 73.4



#4
2-Fluorophenol
Concen: 0.158 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:112 Resp: 2540
Ion Ratio Lower Upper
112 100
64 56.0 45.0 67.4
63 29.4 23.2 34.8

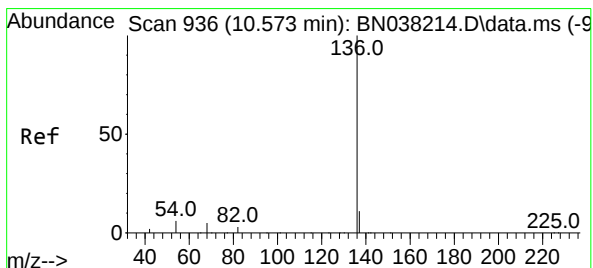
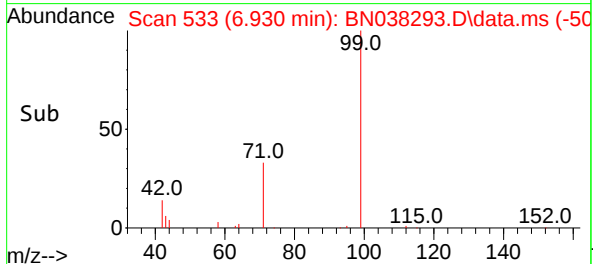
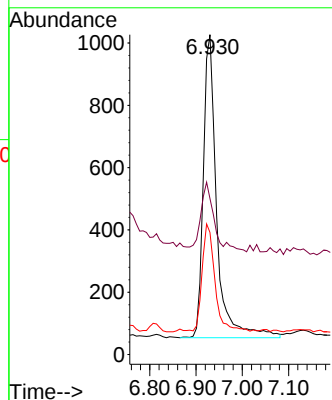
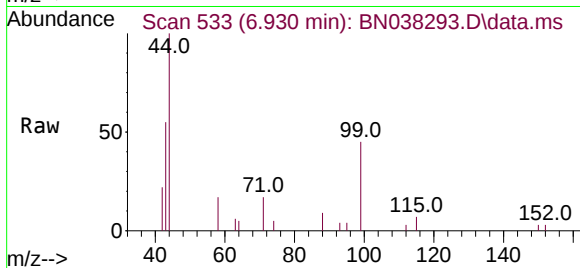




#5
Phenol-d6
Concen: 0.097 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

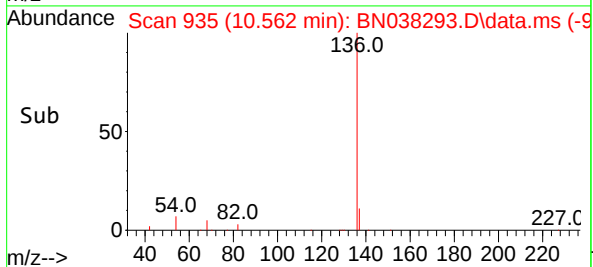
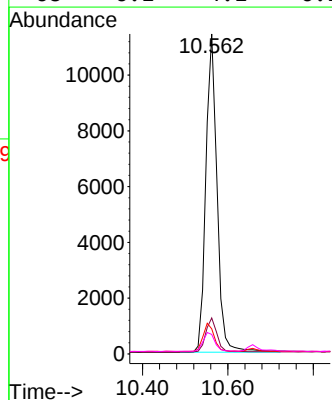
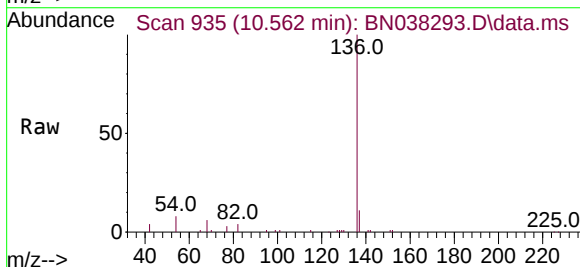
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

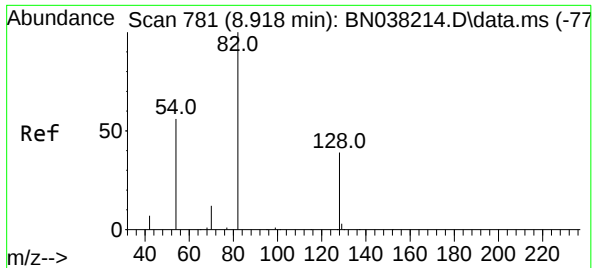
Tgt Ion:	99	Resp:	1950
Ion	Ratio	Lower	Upper
99	100		
42	17.8	17.0	25.6
71	33.3	25.4	38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:	136	Resp:	20829
Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	7.8	5.4	8.0
68	6.1	4.1	6.1

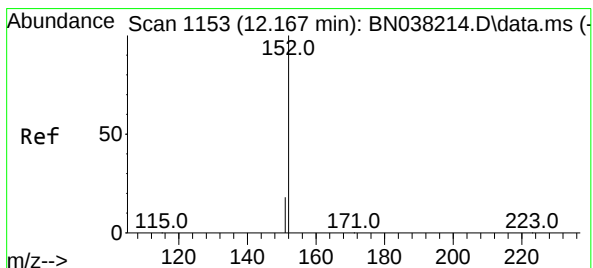
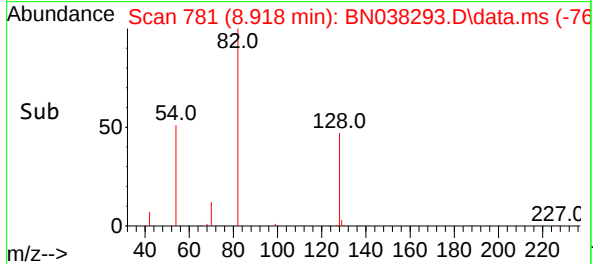
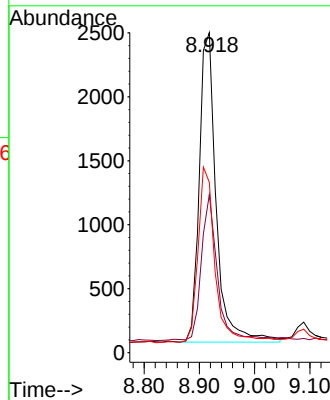
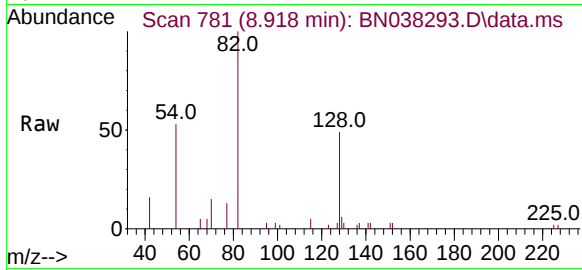




#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

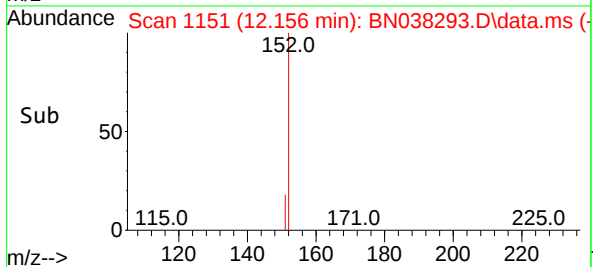
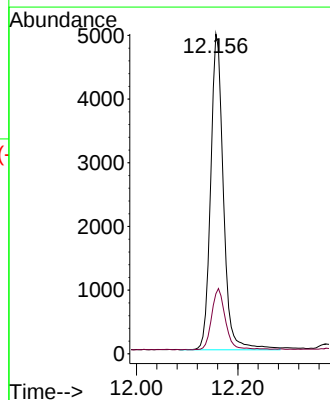
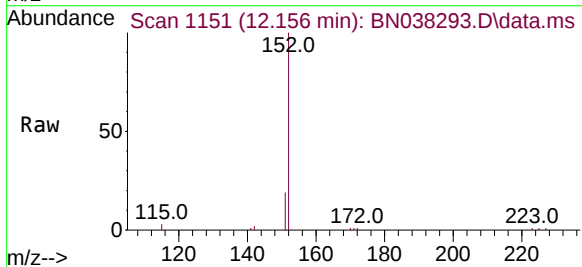
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

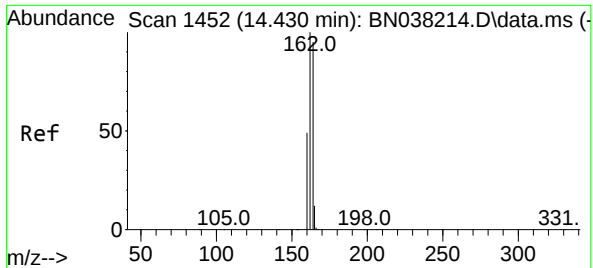
Tgt Ion:	82	Resp:	5152
Ion	Ratio	Lower	Upper
82	100		
128	49.4	32.6	48.8#
54	53.2	45.4	68.0



#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:	152	Resp:	8679
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.7	25.1

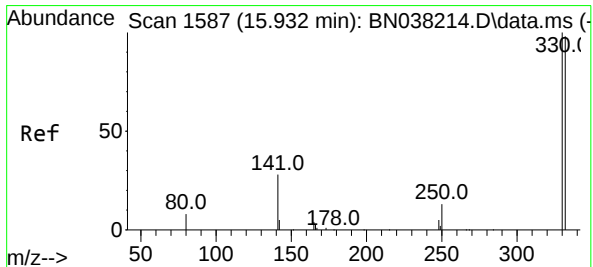
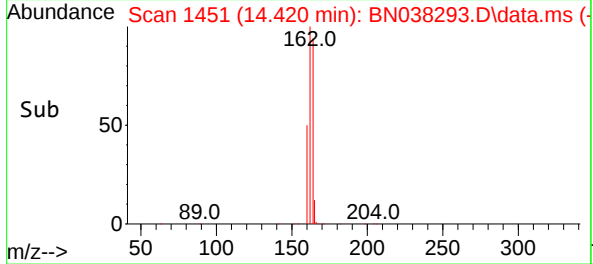
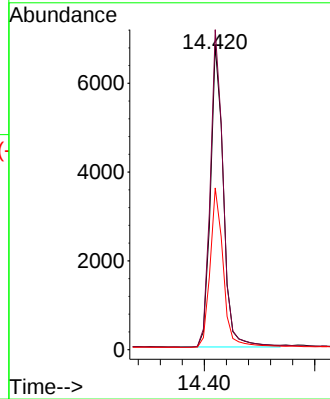
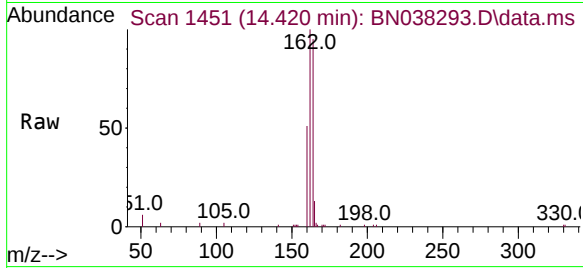




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

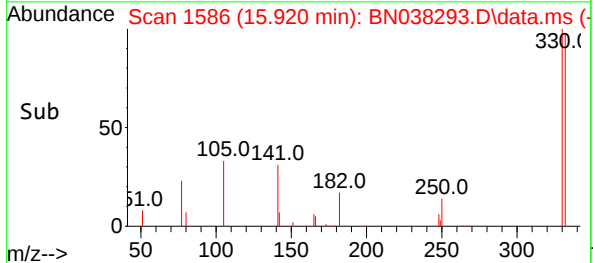
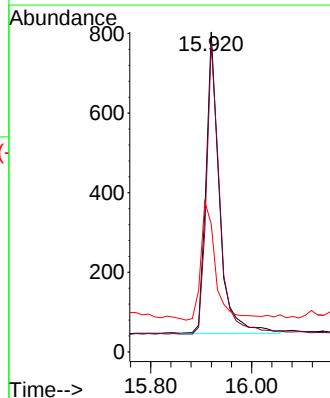
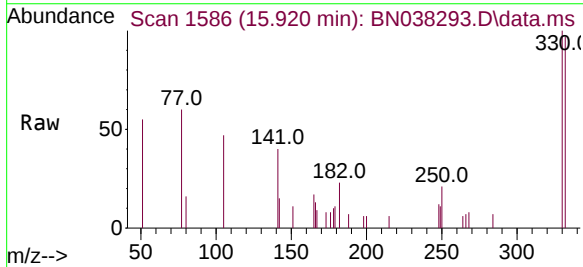
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

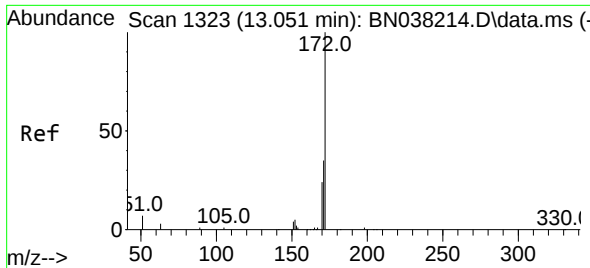
Tgt Ion:	164	Resp:	11092
Ion Ratio	Lower	Upper	
164	100		
162	105.2	83.8	125.8
160	53.1	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:	330	Resp:	1383
Ion Ratio	Lower	Upper	
330	100		
332	97.4	77.8	116.6
141	43.6	33.0	49.4

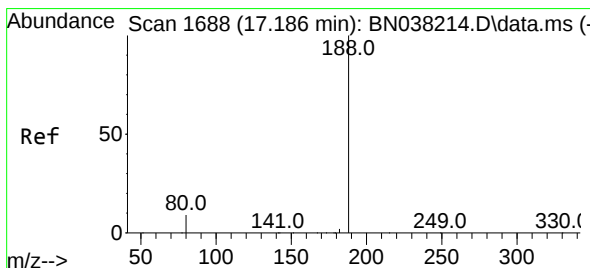
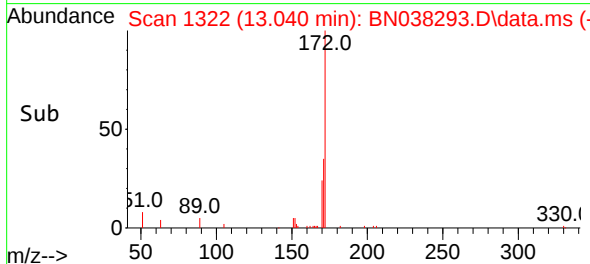
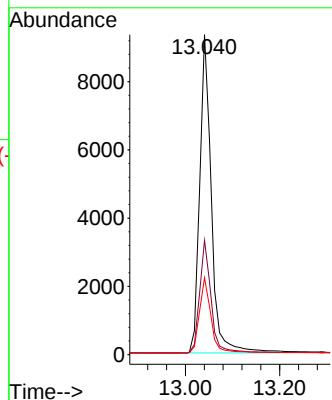
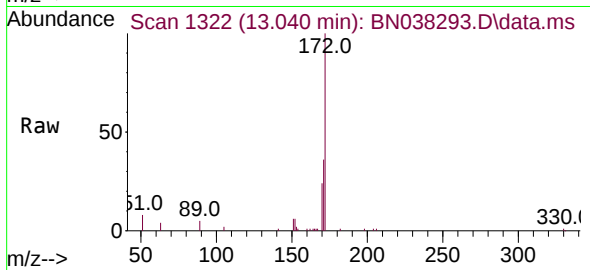




#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 13.040 min Scan# 1323
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

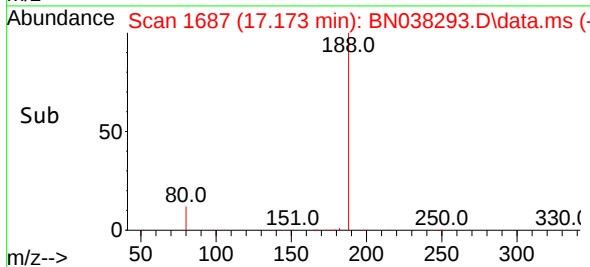
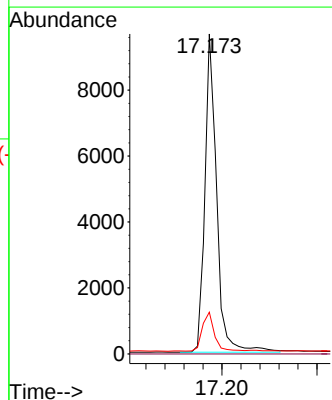
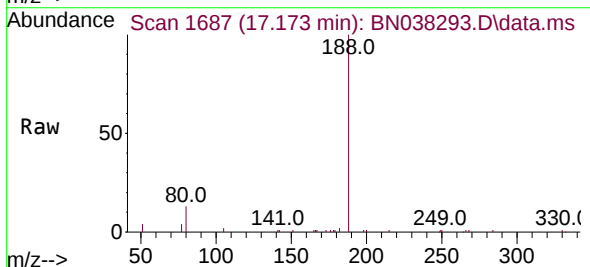
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

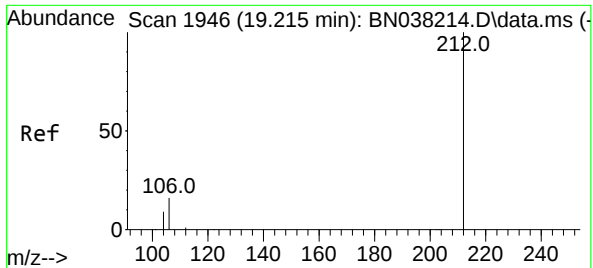
Tgt Ion:	172	Resp:	14466
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.1	42.1
170	24.0	19.1	28.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:	188	Resp:	16516
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	13.0	7.7	11.5





#27

Fluoranthene-d10

Concen: 0.374 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038293.D

Acq: 06 Dec 2025 03:21

Instrument :

BNA_N

ClientSampleId :

MW-04-12-120225

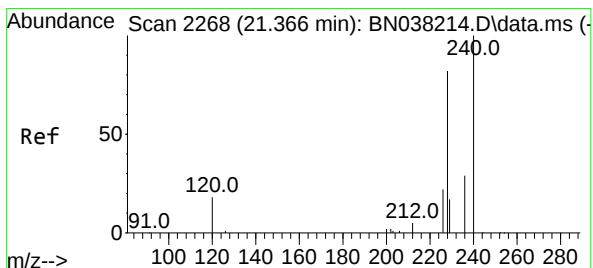
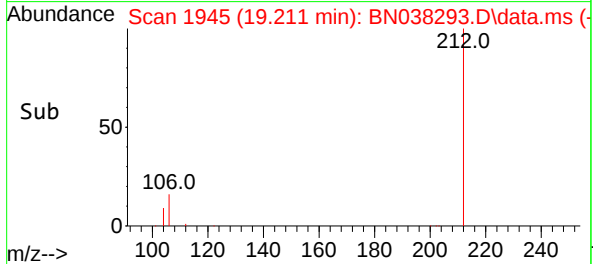
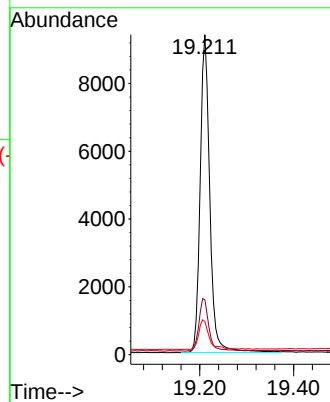
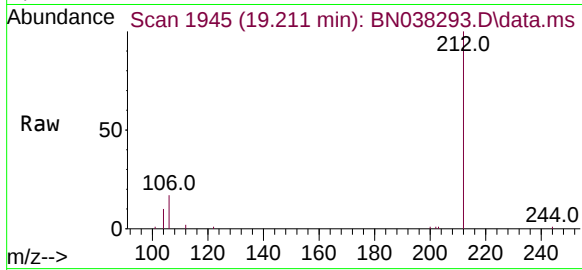
Tgt Ion:212 Resp: 13393

Ion Ratio Lower Upper

212 100

106 17.2 12.7 19.1

104 10.2 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN038293.D

Acq: 06 Dec 2025 03:21

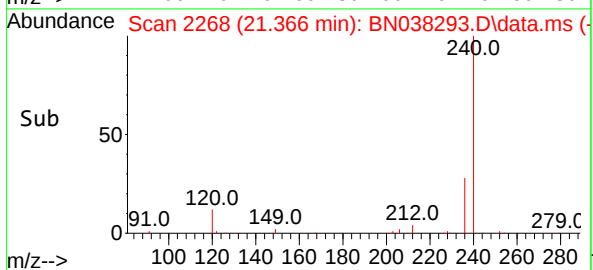
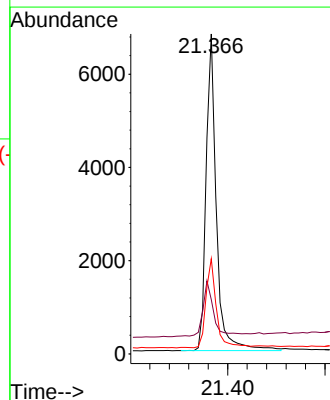
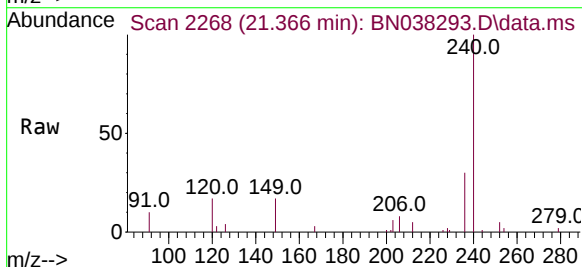
Tgt Ion:240 Resp: 9936

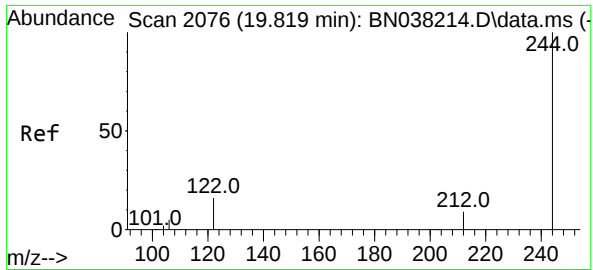
Ion Ratio Lower Upper

240 100

120 17.0 18.1 27.1#

236 29.7 24.2 36.4

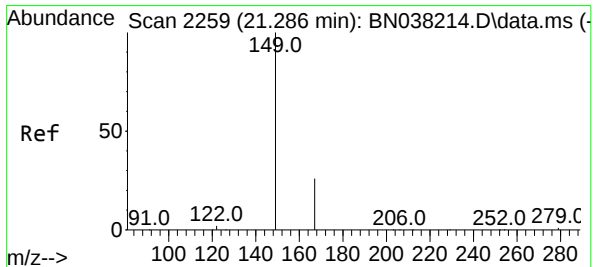
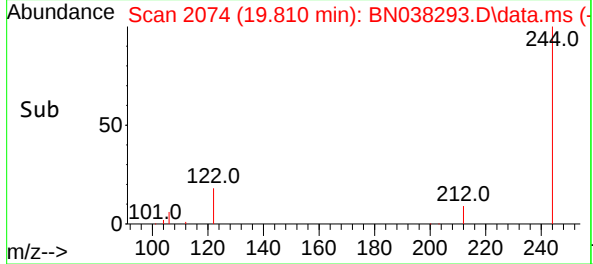
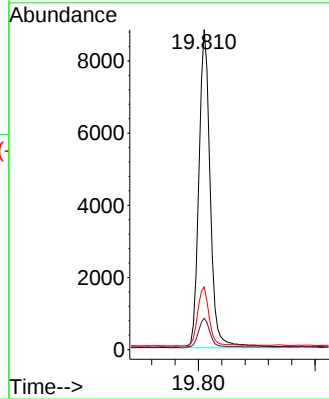
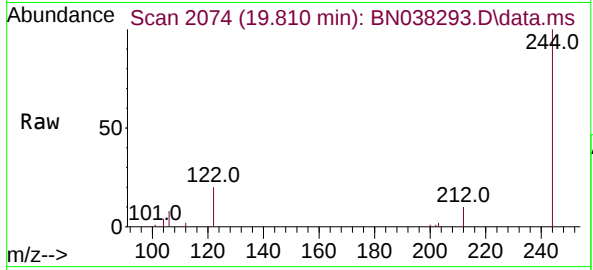




#31
Terphenyl-d14
Concen: 0.518 ng
RT: 19.810 min Scan# 2076
Delta R.T. -0.009 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

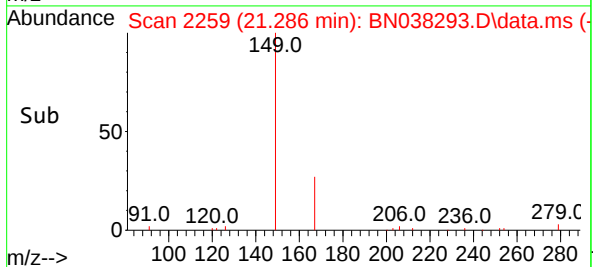
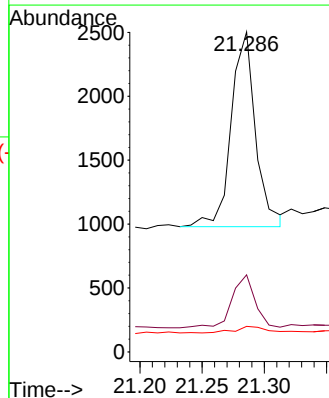
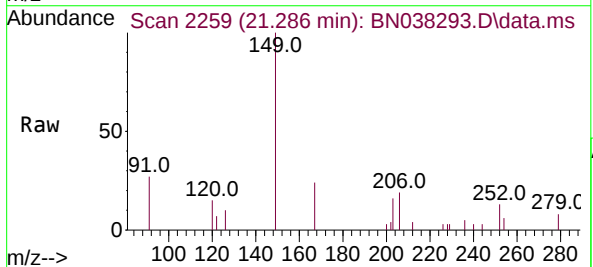
Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

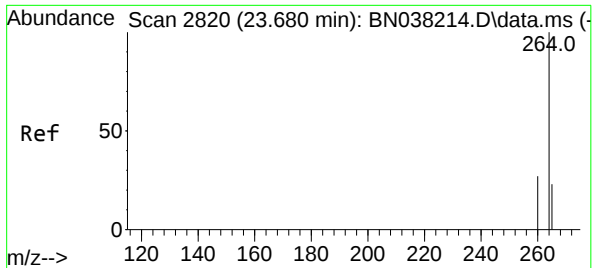
Tgt Ion:244 Resp: 11887
Ion Ratio Lower Upper
244 100
212 9.8 7.7 11.5
122 19.6 13.6 20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:149 Resp: 2078
Ion Ratio Lower Upper
149 100
167 25.8 20.7 31.1
279 5.1 2.5 3.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.671 min Scan# 2817

Delta R.T. -0.009 min

Lab File: BN038293.D

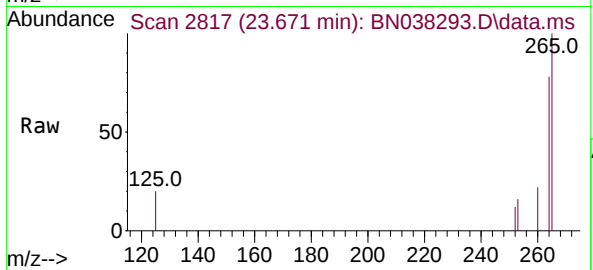
Acq: 06 Dec 2025 03:21

Instrument :

BNA_N

ClientSampleId :

MW-04-12-120225



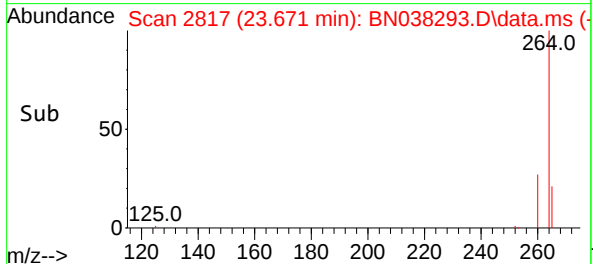
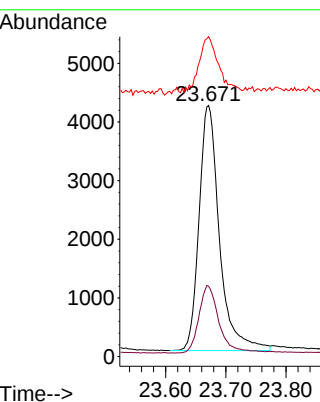
Tgt Ion:264 Resp: 9902

Ion Ratio Lower Upper

264 100

260 28.0 21.7 32.5

265 127.4 98.0 147.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038294.D
 Acq On : 06 Dec 2025 03:58
 Operator : RC/JU
 Sample : Q3756-07
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-13B-47.5-120225

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 06 05:26:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7020	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	21534	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	11522	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	17319	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	10242	0.400	ng	# 0.00
35) Perylene-d12	23.668	264	10445	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2446	0.149	ng	0.00
5) Phenol-d6	6.930	99	1900	0.093	ng	0.00
8) Nitrobenzene-d5	8.907	82	5325	0.309	ng	-0.01
11) 2-Methylnaphthalene-d10	12.156	152	8984	0.294	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1744	0.481	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	14635	0.329	ng	-0.01
27) Fluoranthene-d10	19.211	212	12616	0.336	ng	0.00
31) Terphenyl-d14	19.810	244	10938	0.462	ng	0.00
Target Compounds						
21) 4-Bromophenyl-phenylether	16.366	248	303	0.025	ng	# 80
24) Pentachlorophenol	16.826	266	220	0.054	ng	95
25) Phenanthrene	17.211	178	1664m	0.031	ng	
28) Fluoranthene	19.243	202	1431	0.027	ng	# 71
30) Pyrene	19.606	202	1342	0.026	ng	96
32) Benzo(a)anthracene	21.348	228	1081	0.031	ng	# 85
33) Chrysene	21.402	228	1156	0.028	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.286	149	4084	0.215	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.022	276	1497	0.031	ng	95
37) Benzo(b)fluoranthene	22.970	252	1334	0.031	ng	# 1
38) Benzo(k)fluoranthene	23.016	252	1179	0.026	ng	# 1
39) Benzo(a)pyrene	23.569	252	876	0.024	ng	# 1
40) Dibenzo(a,h)anthracene	26.034	278	1101	0.030	ng	# 17
41) Benzo(g,h,i)perylene	26.732	276	1358	0.031	ng	# 58

(#) = qualifier out of range (m) = manual integration (+) = signals summed

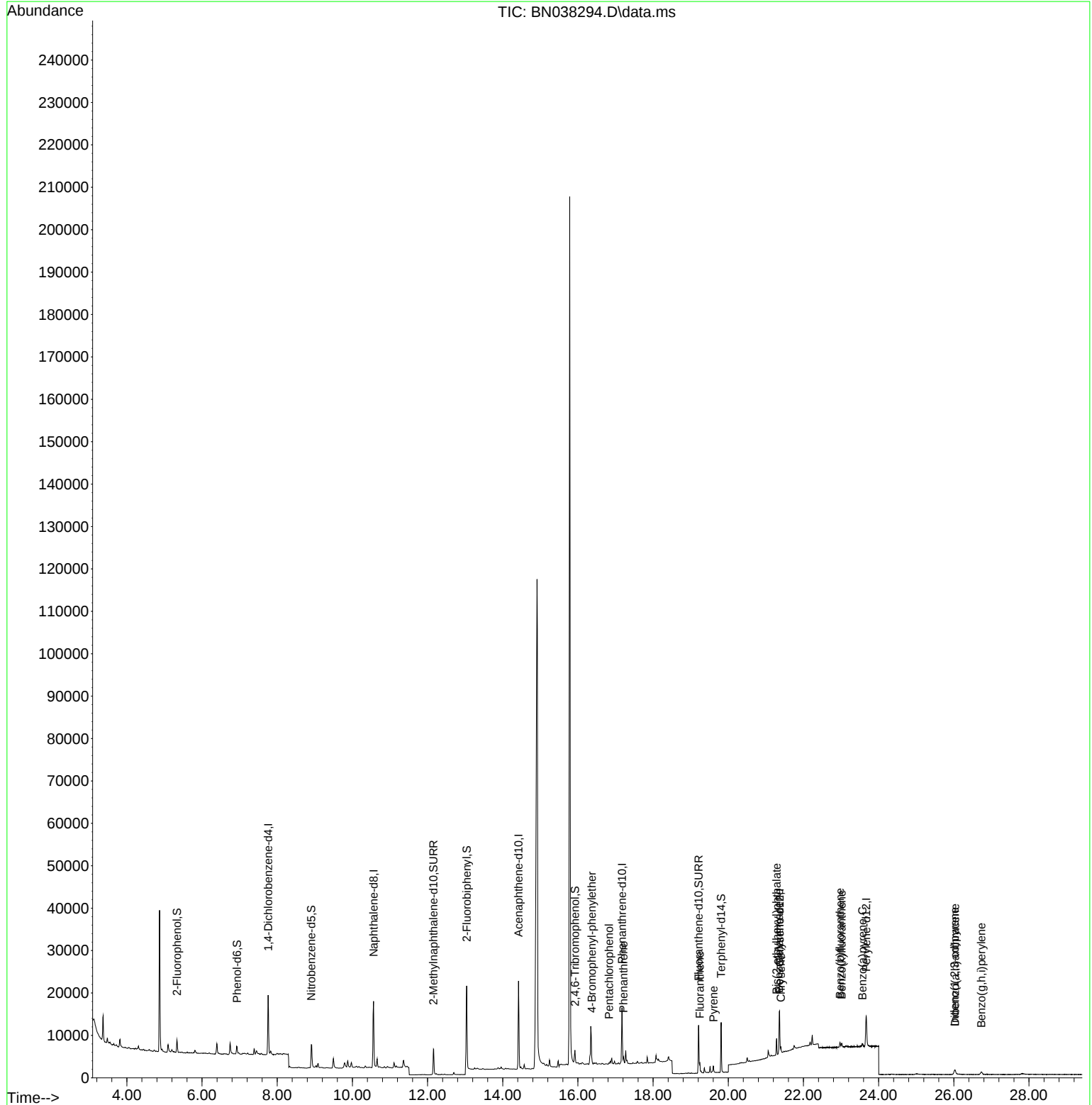
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Data File : BN038294.D
Acq On : 06 Dec 2025 03:58
Operator : RC/JU
Sample : Q3756-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

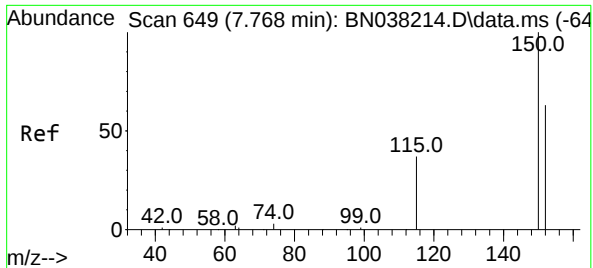
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

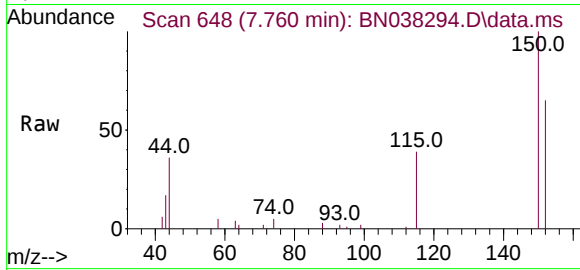
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

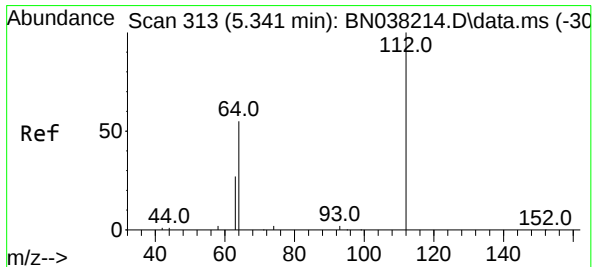
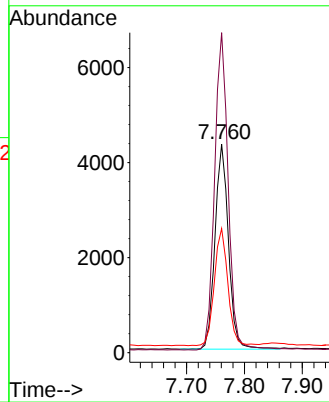
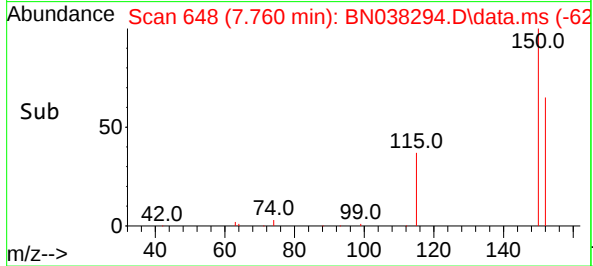
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion:152 Resp: 7020
Ion Ratio Lower Upper
152 100
150 153.6 125.3 187.9
115 59.6 49.0 73.4

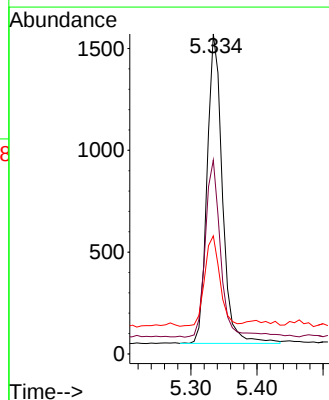
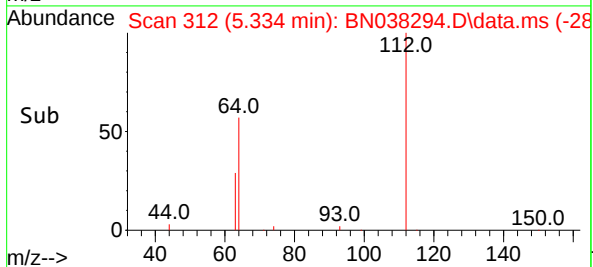
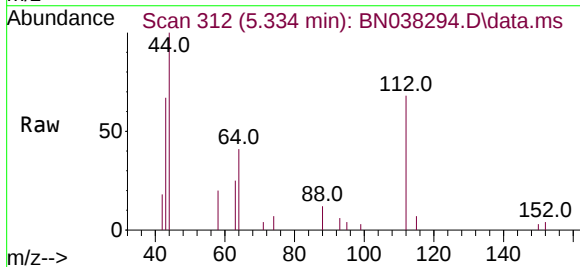
Manual Integrations
APPROVED

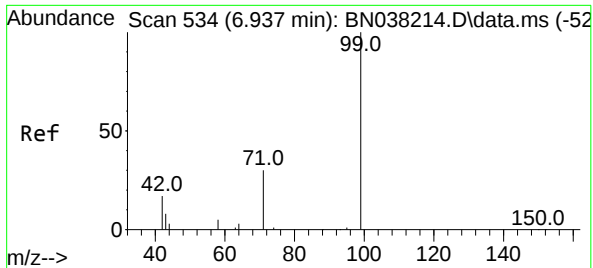
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#4
2-Fluorophenol
Concen: 0.149 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:112 Resp: 2446
Ion Ratio Lower Upper
112 100
64 58.1 45.0 67.4
63 29.8 23.2 34.8





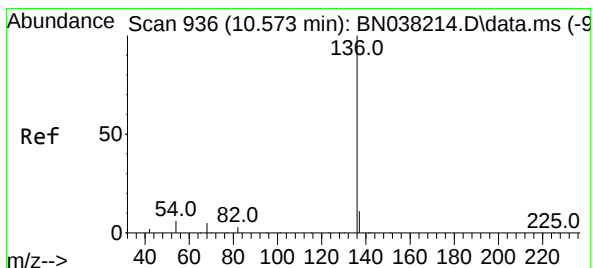
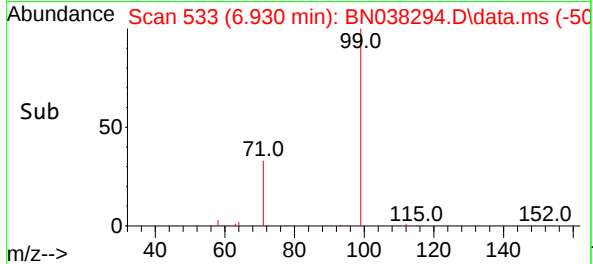
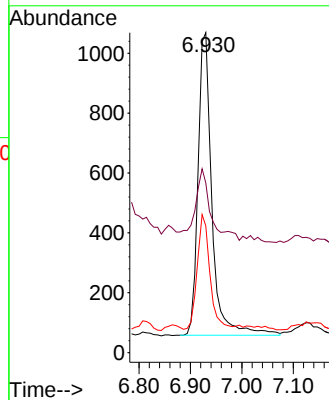
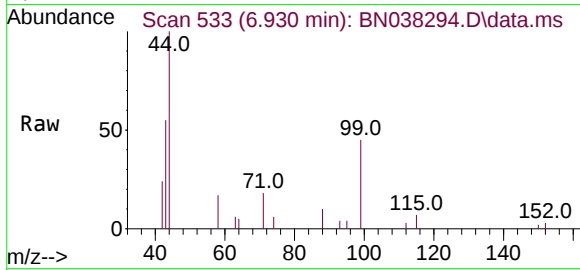
#5
Phenol-d6
Concen: 0.093 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion: 99 Resp: 1900
Ion Ratio Lower Upper
99 100
42 26.3 17.0 25.6
71 34.4 25.4 38.2

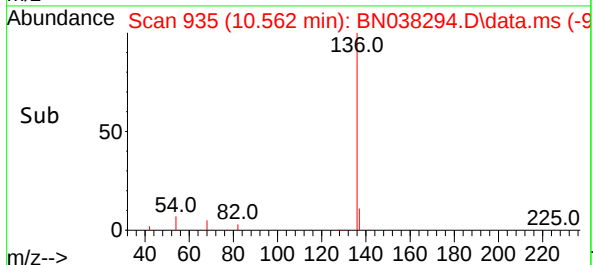
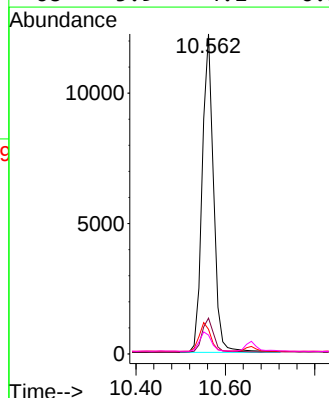
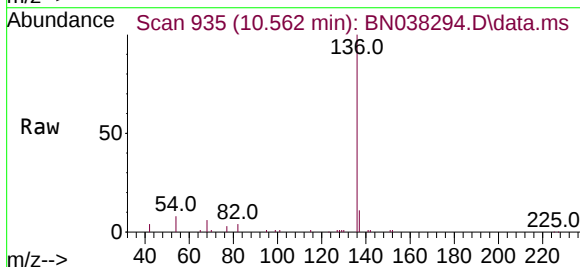
Manual Integrations
APPROVED

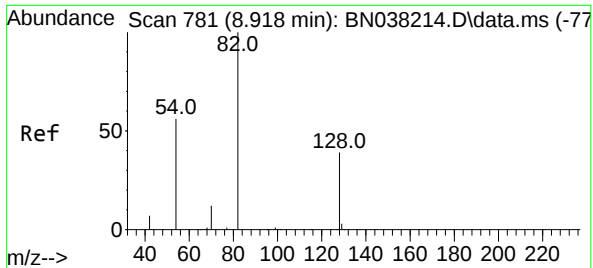
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

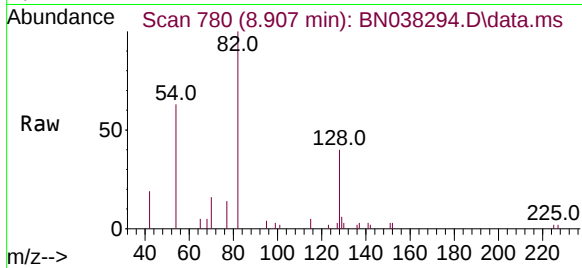
Tgt Ion:136 Resp: 21534
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 7.7 5.4 8.0
68 5.9 4.1 6.1





#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.907 min Scan# 781
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

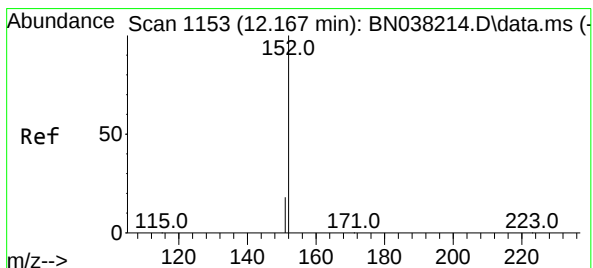
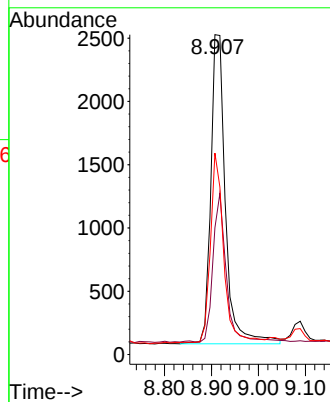
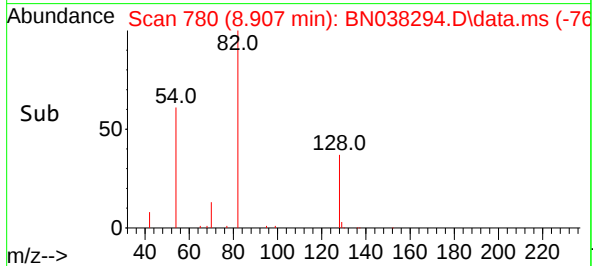
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion: 82 Resp: 5325
Ion Ratio Lower Upper
82 100
128 39.6 32.6 48.8
54 63.0 45.4 68.0

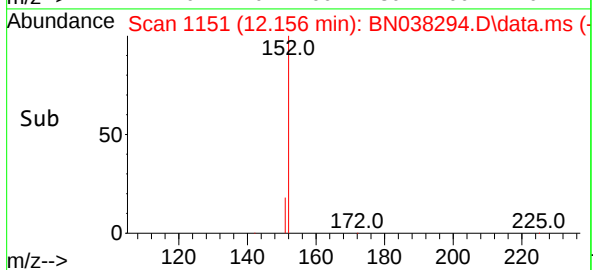
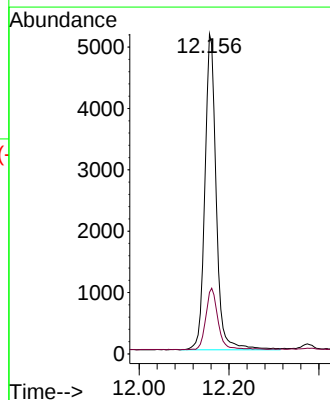
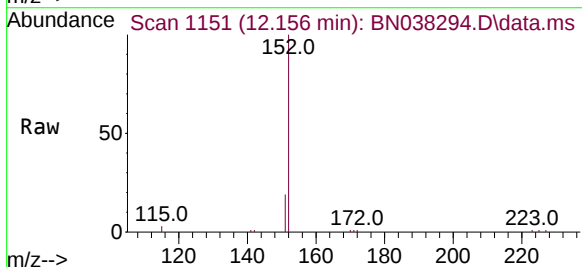
Manual Integrations
APPROVED

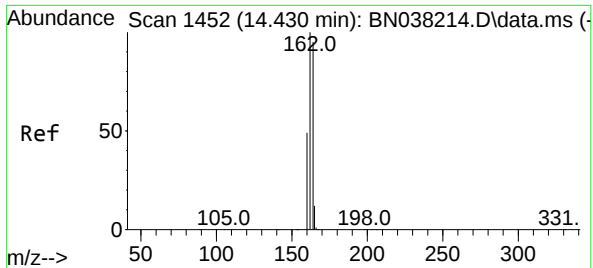
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

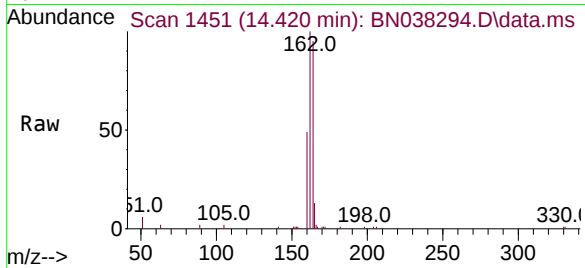
Tgt Ion:152 Resp: 8984
Ion Ratio Lower Upper
152 100
151 21.1 16.7 25.1





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

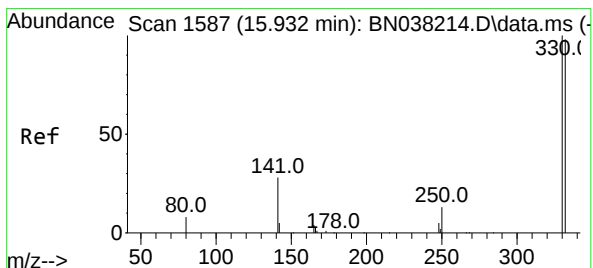
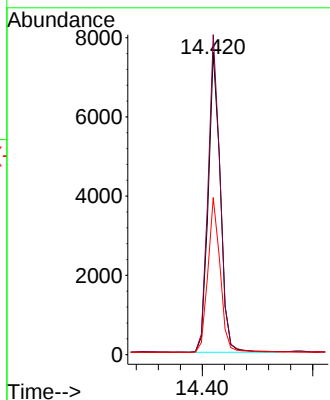
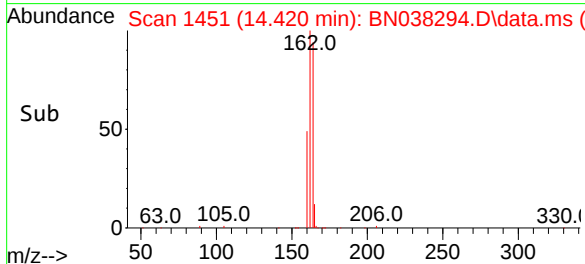
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



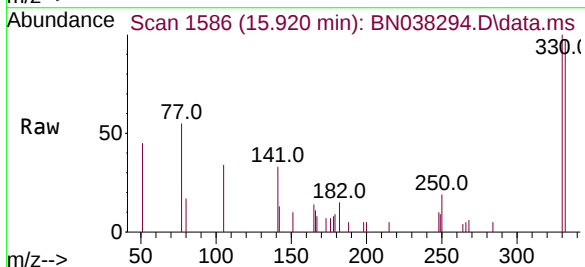
Tgt Ion:164 Resp: 1152
Ion Ratio Lower Upper
164 100
162 105.8 83.8 125.8
160 51.9 41.6 62.4

Manual Integrations
APPROVED

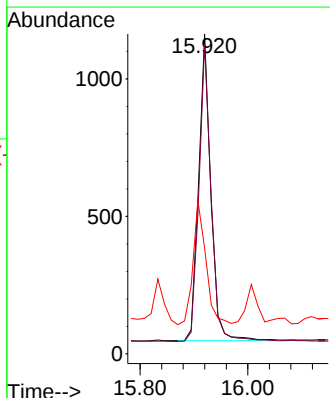
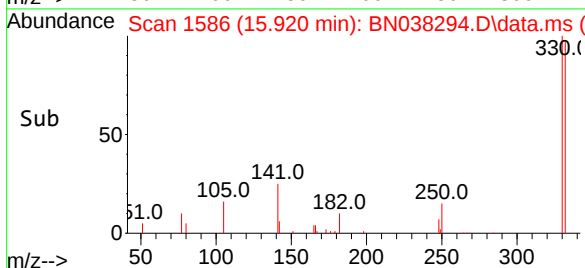
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

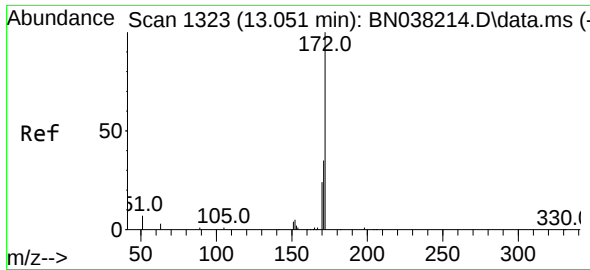


#14
2,4,6-Tribromophenol
Concen: 0.481 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58



Tgt Ion:330 Resp: 1744
Ion Ratio Lower Upper
330 100
332 97.4 77.8 116.6
141 42.9 33.0 49.4





#15

2-Fluorobiphenyl

Concen: 0.329 ng

RT: 13.040 min Scan# 1323

Delta R.T. -0.011 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

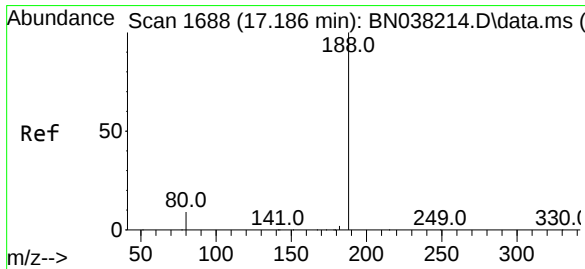
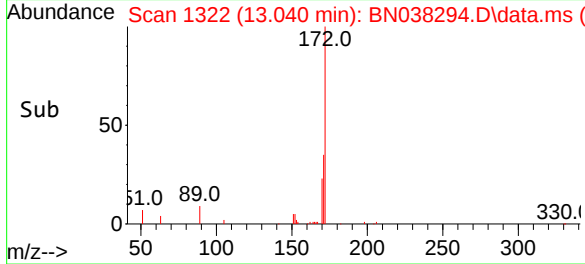
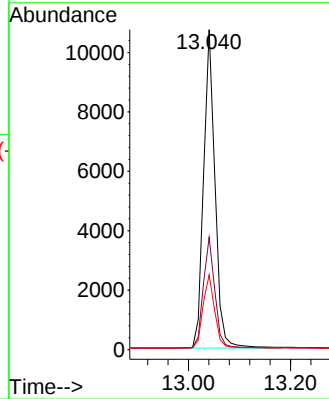
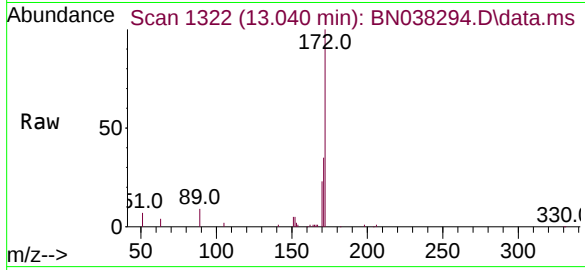
Instrument :

BNA_N

ClientSampleId :

MW-13B-47.5-120225

Tgt Ion:	172	Resp:	14635
Ion Ratio	Lower	Upper	
172	100		
171	35.1	28.1	42.1
170	23.4	19.1	28.7

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

#19

Phenanthrene-d10

Concen: 0.400 ng

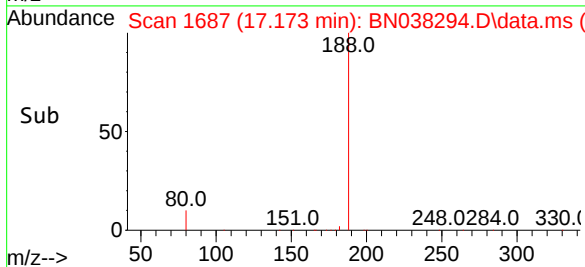
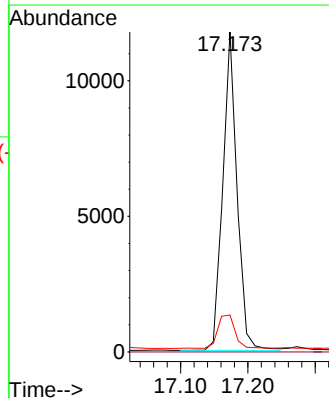
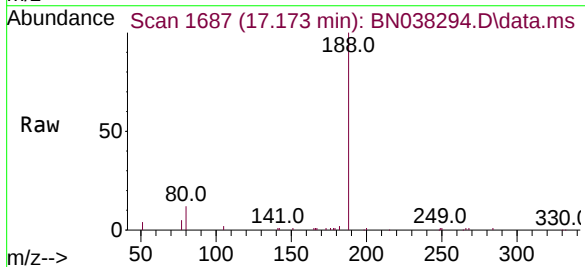
RT: 17.173 min Scan# 1687

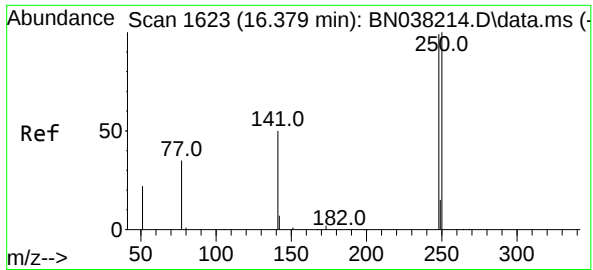
Delta R.T. -0.012 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

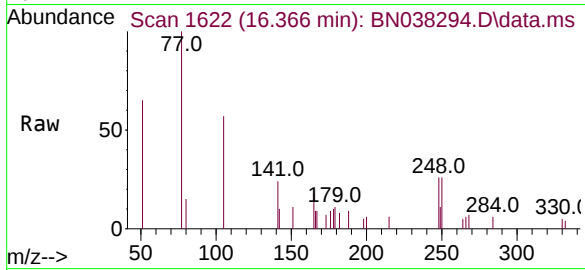
Tgt Ion:	188	Resp:	17319
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	11.5	7.7	11.5





#21
4-Bromophenyl-phenylether
Concen: 0.025 ng
RT: 16.366 min Scan# 1622
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

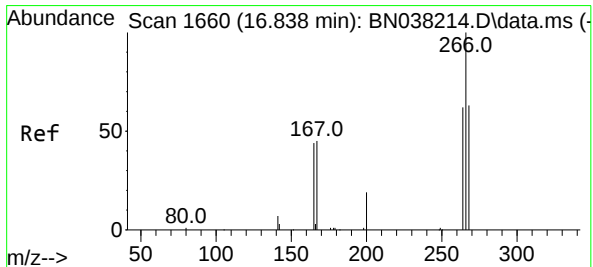
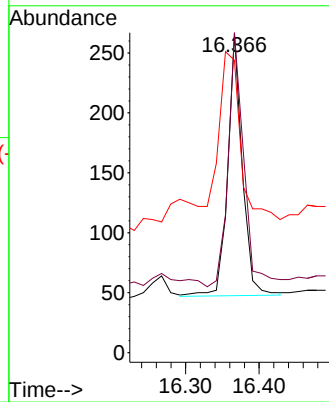
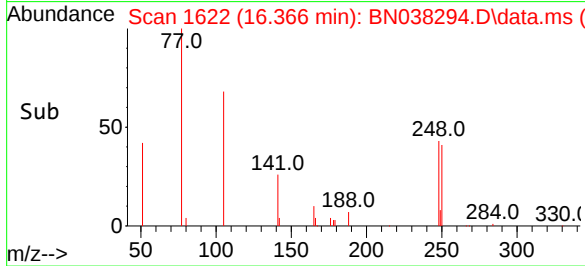
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion:248 Resp: 303
Ion Ratio Lower Upper
248 100
250 100.4 80.8 121.2
141 91.7 41.0 61.6

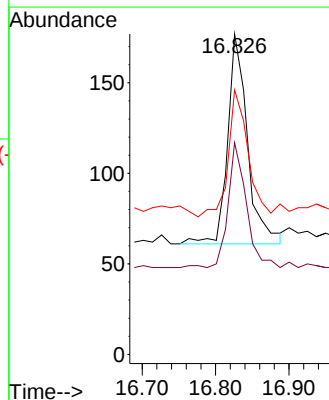
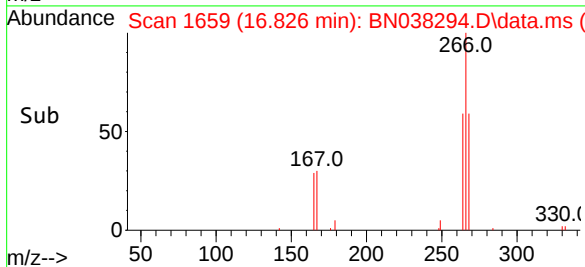
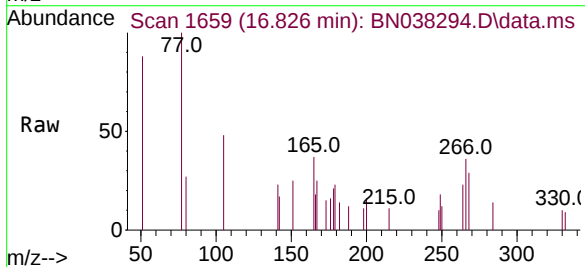
Manual Integrations
APPROVED

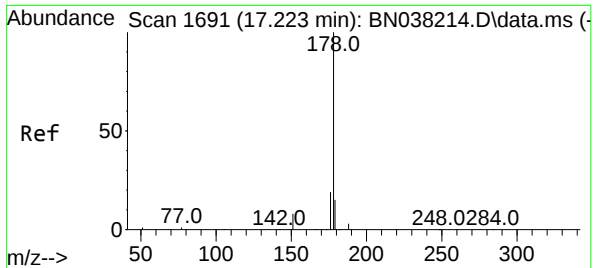
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#24
Pentachlorophenol
Concen: 0.054 ng
RT: 16.826 min Scan# 1659
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

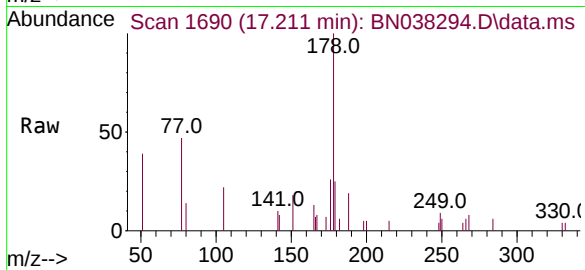
Tgt Ion:266 Resp: 220
Ion Ratio Lower Upper
266 100
264 56.4 48.9 73.3
268 59.5 50.2 75.2





#25
Phenanthrene
Concen: 0.031 ng m
RT: 17.211 min Scan# 1691
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

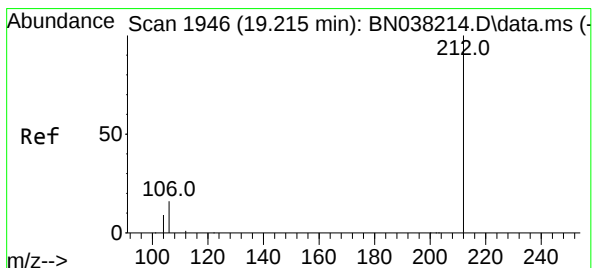
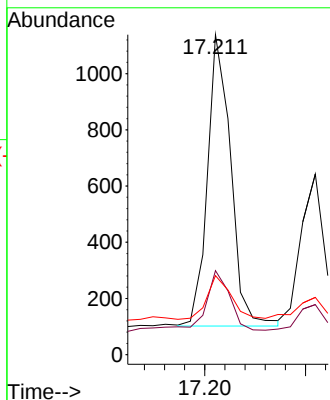
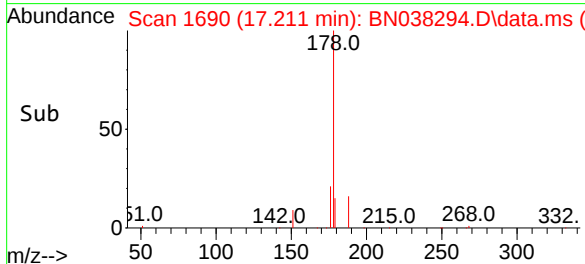
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion:178 Resp: 1664
Ion Ratio Lower Upper
178 100
176 10.2 15.3 22.9
179 8.1 12.0 18.0

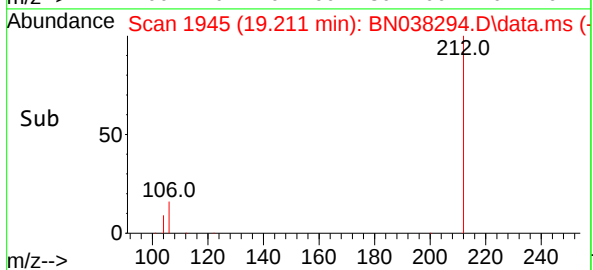
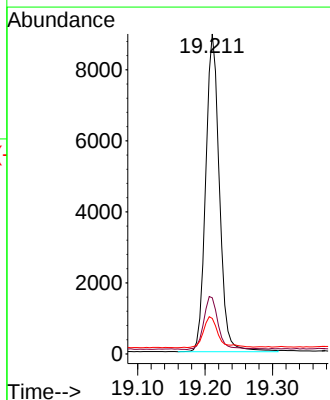
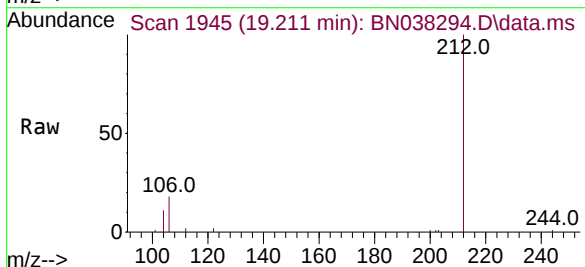
Manual Integrations
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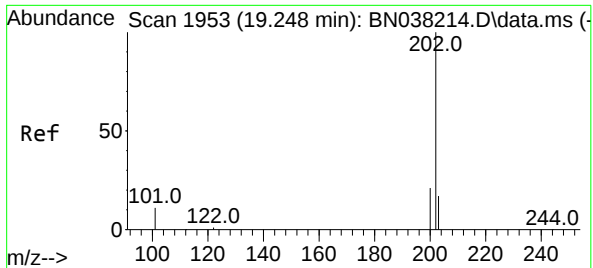
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

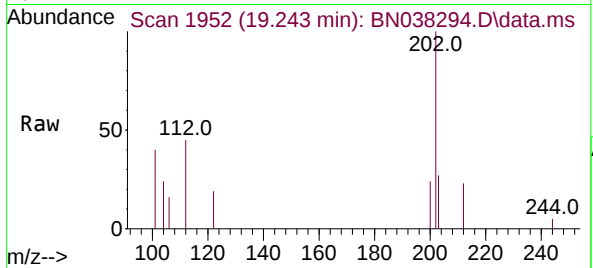
Tgt Ion:212 Resp: 12616
Ion Ratio Lower Upper
212 100
106 17.7 12.7 19.1
104 10.7 7.3 10.9





#28
Fluoranthene
Concen: 0.027 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

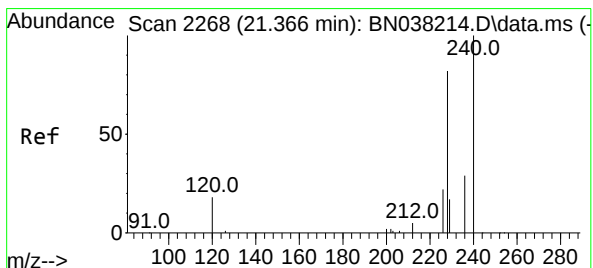
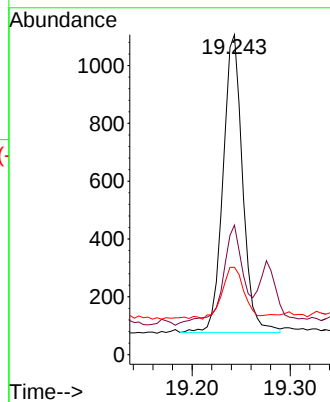
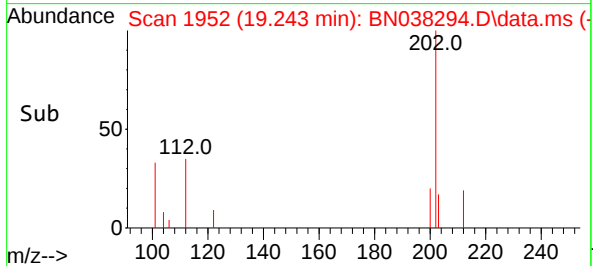
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion:202 Resp: 1431
Ion Ratio Lower Upper
202 100
101 36.2 9.8 14.6
203 19.5 13.6 20.4

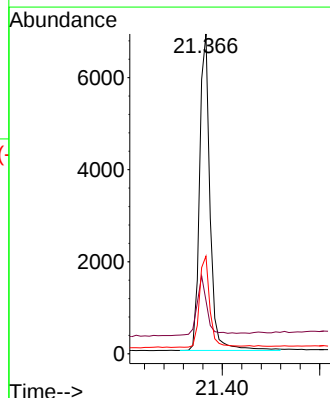
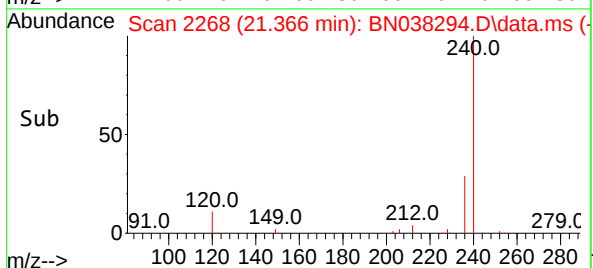
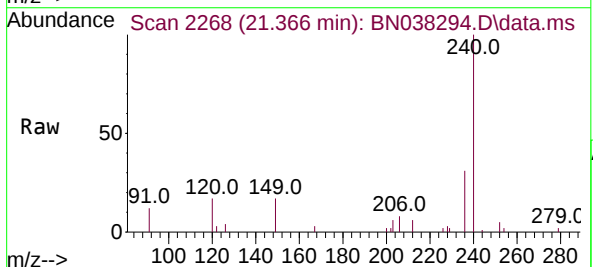
Manual Integrations
APPROVED

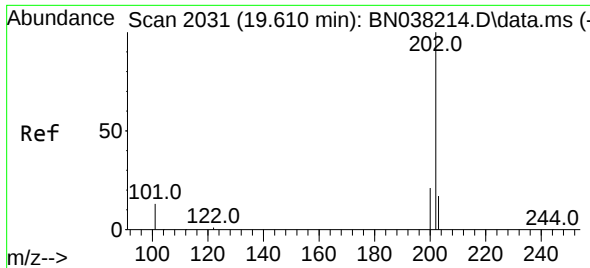
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

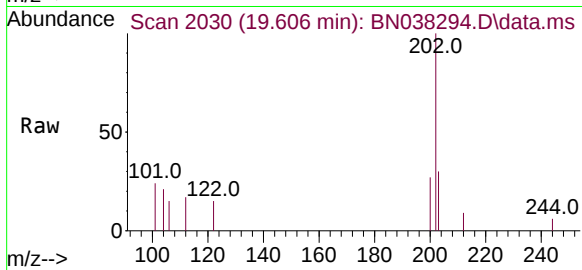
Tgt Ion:240 Resp: 10242
Ion Ratio Lower Upper
240 100
120 16.7 18.1 27.1#
236 30.5 24.2 36.4





#30
Pyrene
Concen: 0.026 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

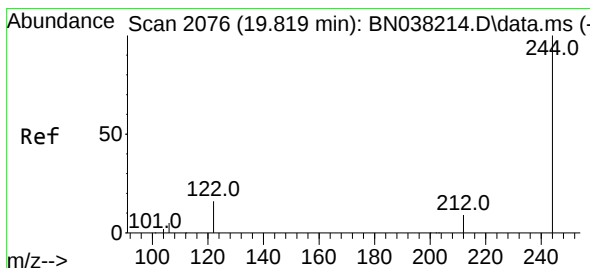
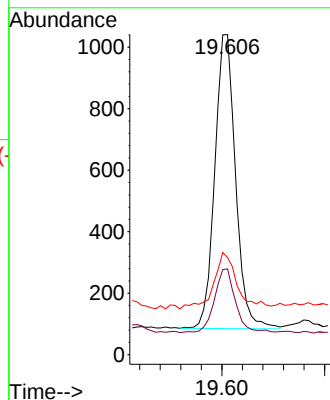
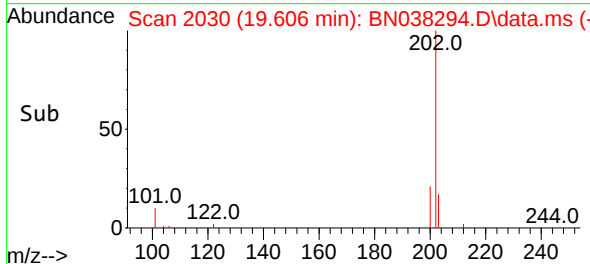
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	21.5	14.4	21.6

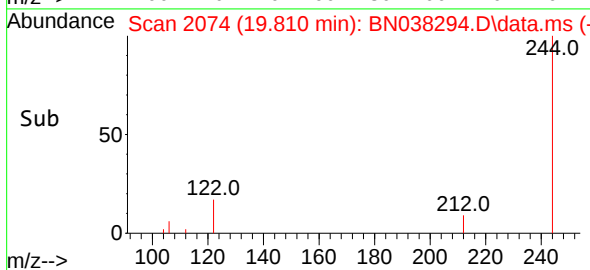
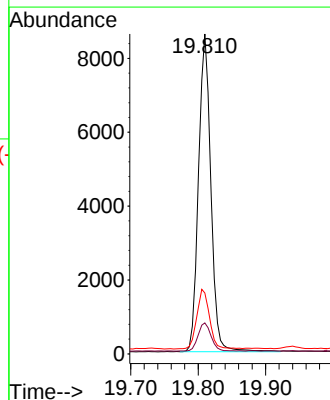
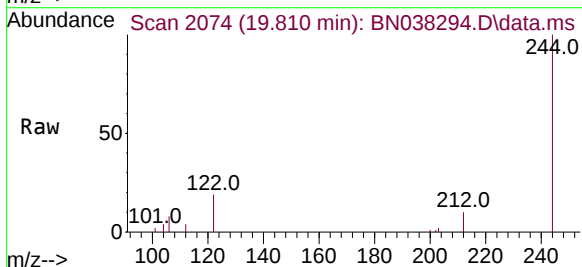
Manual Integrations
APPROVED

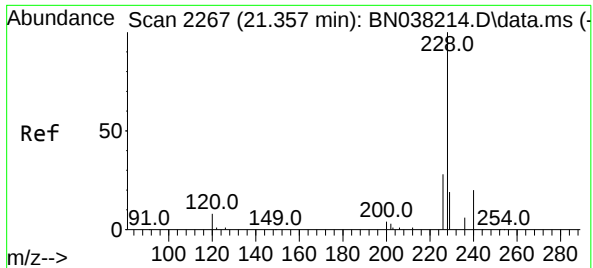
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#31
Terphenyl-d14
Concen: 0.462 ng
RT: 19.810 min Scan# 2074
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

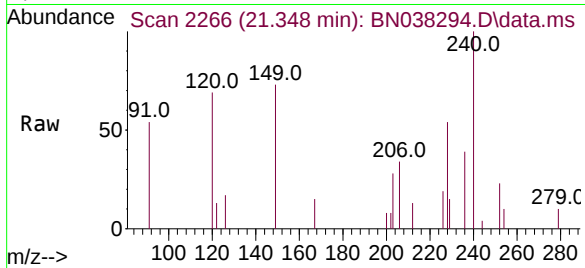
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.7	11.5
122	19.0	13.6	20.4





#32
Benzo(a)anthracene
Concen: 0.031 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

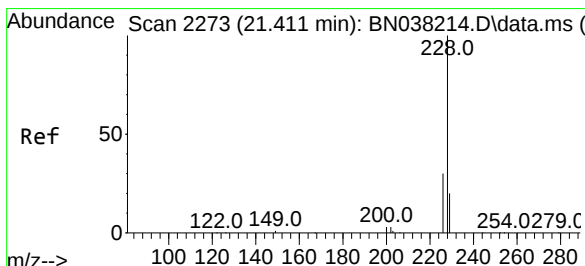
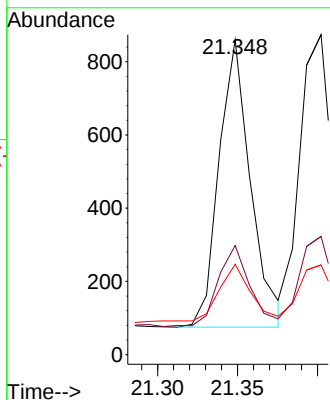
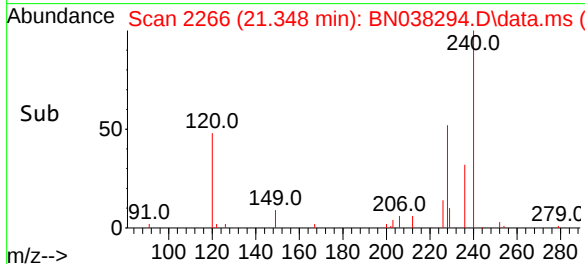
Instrument : BNA_N
ClientSampleId : MW-13B-47.5-120225



Tgt Ion:228 Resp: 1081
Ion Ratio Lower Upper
228 100
226 34.7 22.6 33.8#
229 28.7 15.8 23.8#

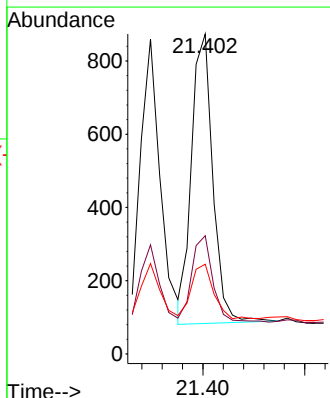
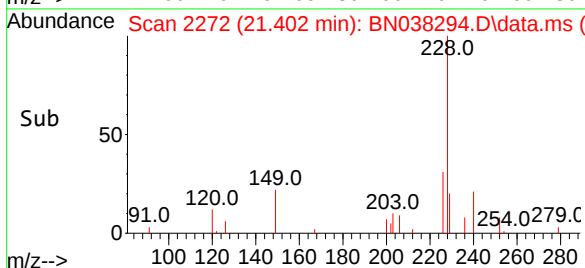
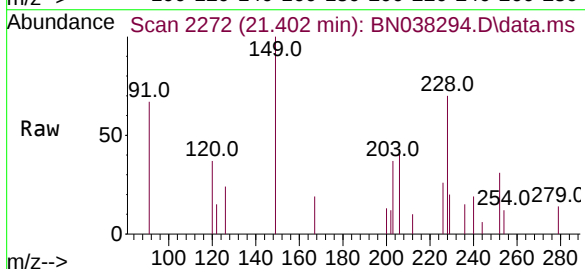
Manual Integrations
APPROVED

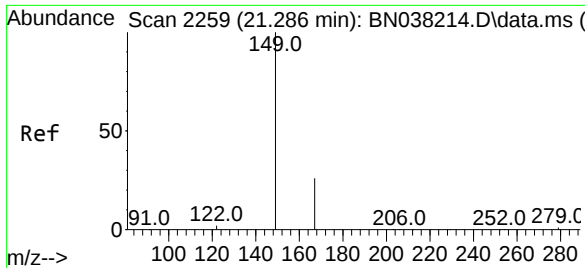
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#33
Chrysene
Concen: 0.028 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

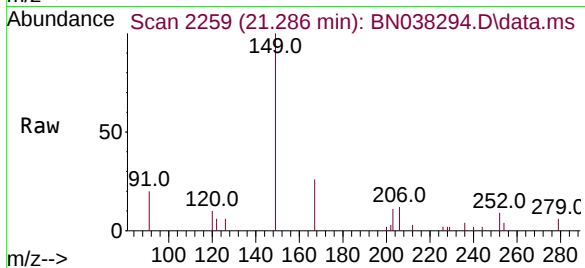
Tgt Ion:228 Resp: 1156
Ion Ratio Lower Upper
228 100
226 37.0 23.8 35.8#
229 28.0 16.1 24.1#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.215 ng
RT: 21.286 min Scan# 211
Delta R.T. 0.000 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

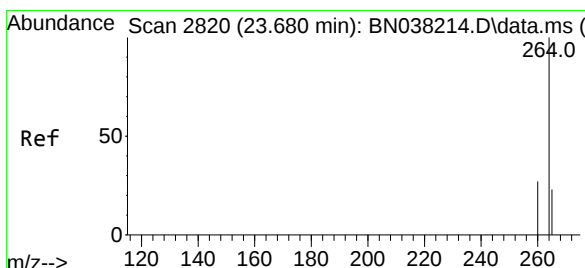
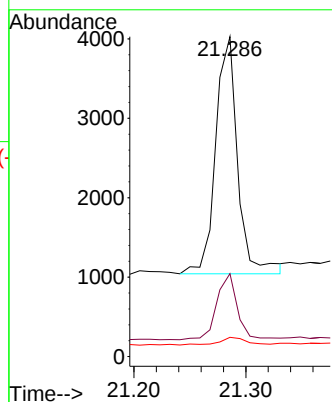
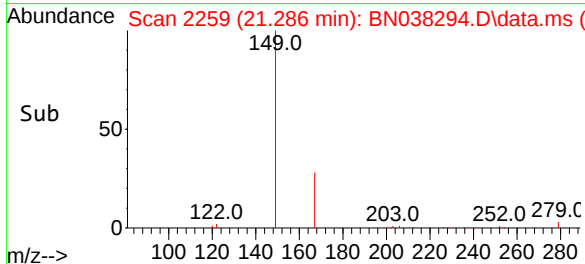
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion:149 Resp: 4084
Ion Ratio Lower Upper
149 100
167 26.1 20.7 31.1
279 4.0 2.5 3.7

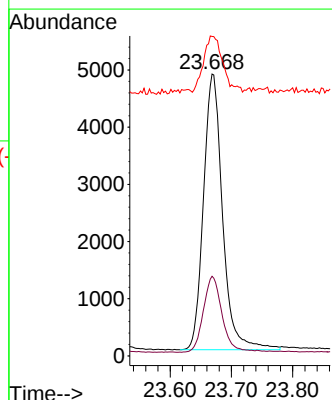
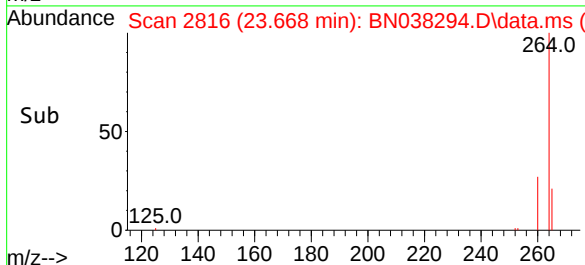
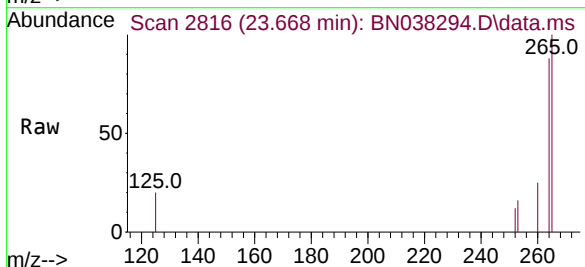
Manual Integrations
APPROVED

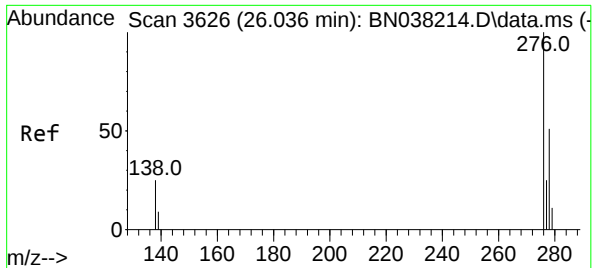
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.668 min Scan# 2816
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

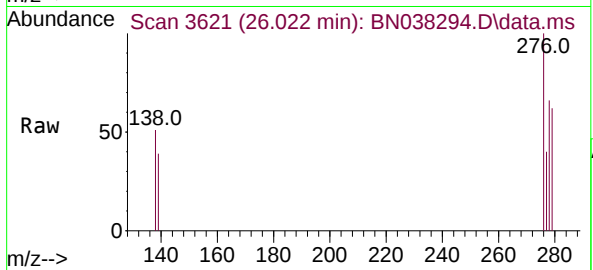
Tgt Ion:264 Resp: 10445
Ion Ratio Lower Upper
264 100
260 28.2 21.7 32.5
265 113.3 98.0 147.0





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.031 ng
RT: 26.022 min Scan# 3626
Delta R.T. -0.015 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

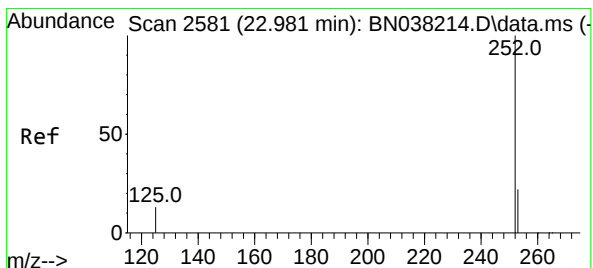
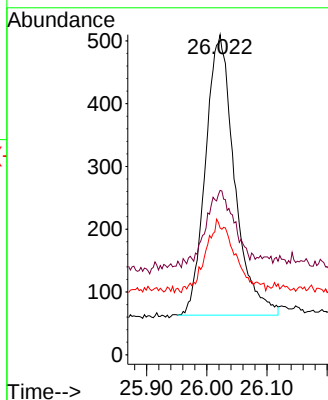
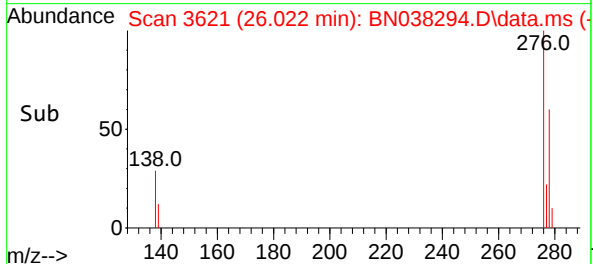
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225



Tgt Ion: 276 Resp: 1497
Ion Ratio Lower Upper
276 100
138 24.0 21.4 32.2
277 25.7 19.1 28.7

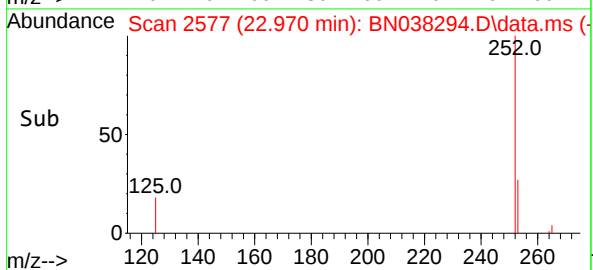
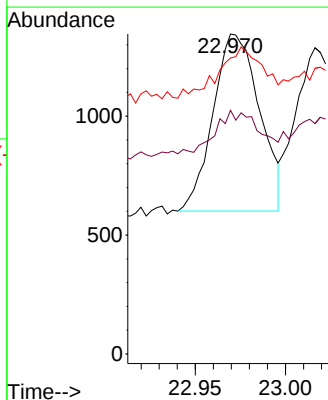
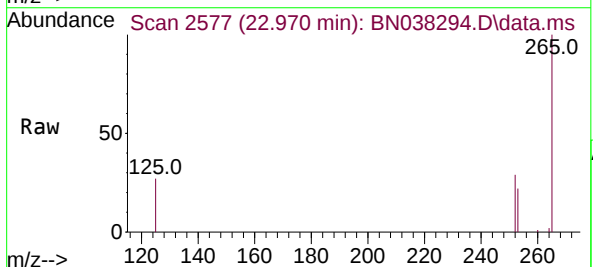
Manual Integrations
APPROVED

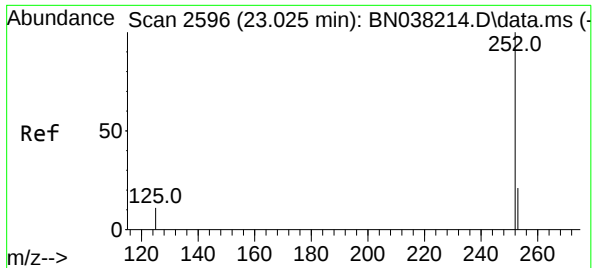
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#37
Benzo(b)fluoranthene
Concen: 0.031 ng
RT: 22.970 min Scan# 2577
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion: 252 Resp: 1334
Ion Ratio Lower Upper
252 100
253 76.2 22.2 33.4#
125 92.5 18.0 27.0#





#38

Benzo(k)fluoranthene

Concen: 0.026 ng

RT: 23.016 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

Instrument :

BNA_N

ClientSampleId :

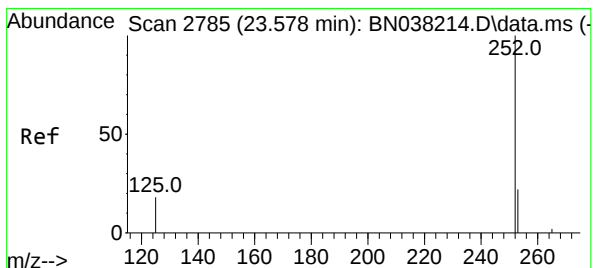
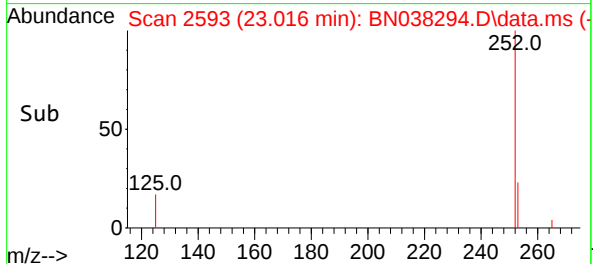
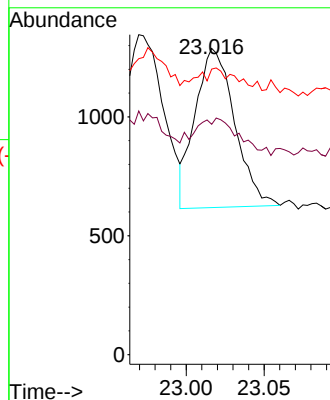
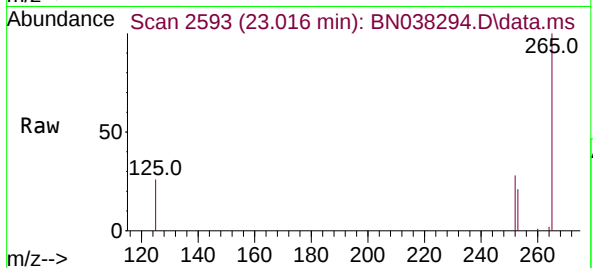
MW-13B-47.5-120225

Tgt Ion:252	Resp:	1179
Ion Ratio	Lower	Upper
252	100	
253	75.2	22.4 33.6
125	93.2	17.5 26.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025



#39

Benzo(a)pyrene

Concen: 0.024 ng

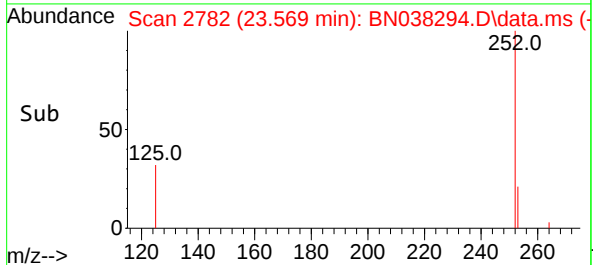
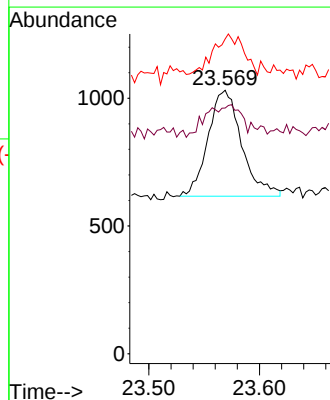
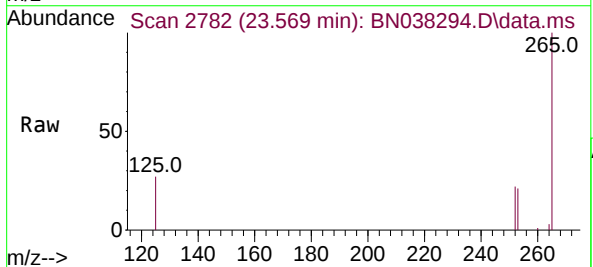
RT: 23.569 min Scan# 2782

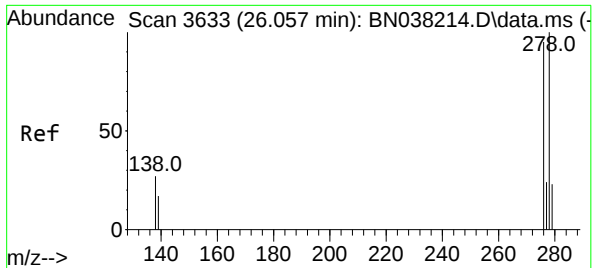
Delta R.T. -0.009 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

Tgt Ion:252	Resp:	876
Ion Ratio	Lower	Upper
252	100	
253	93.3	25.3 37.9
125	119.5	25.2 37.8





#40

Dibenzo(a,h)anthracene

Concen: 0.030 ng

RT: 26.034 min Scan# 3625

Delta R.T. -0.023 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

Instrument :

BNA_N

ClientSampleId :

MW-13B-47.5-120225

Tgt Ion:278 Resp: 110

Ion Ratio Lower Upper

278 100

139 50.7 17.6 26.4

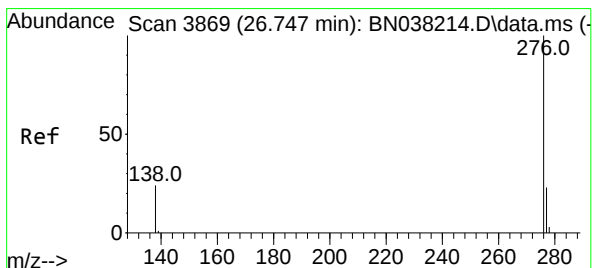
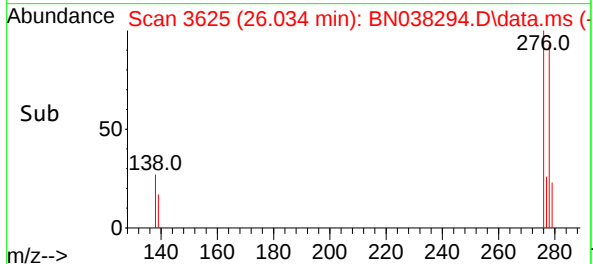
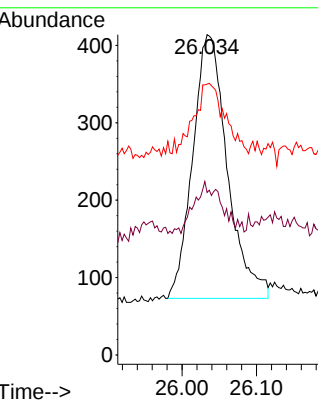
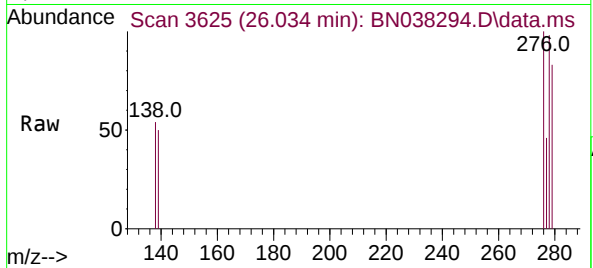
279 84.5 24.2 36.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025

Supervised By :mohammad ahmed 12/09/2025



#41

Benzo(g,h,i)perylene

Concen: 0.031 ng

RT: 26.732 min Scan# 3864

Delta R.T. -0.015 min

Lab File: BN038294.D

Acq: 06 Dec 2025 03:58

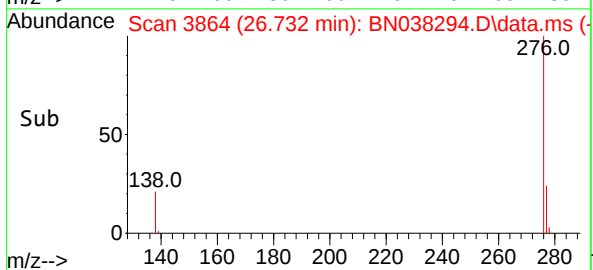
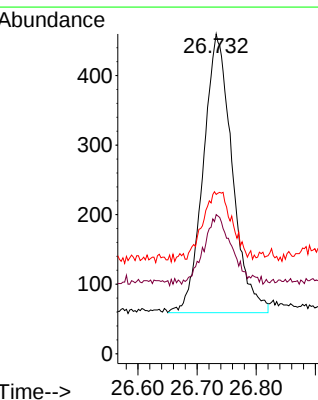
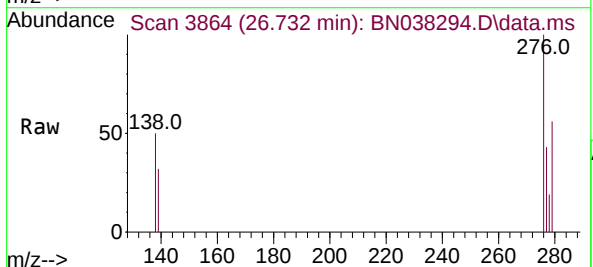
Tgt Ion:276 Resp: 1358

Ion Ratio Lower Upper

276 100

277 43.5 20.2 30.2#

138 49.8 20.8 31.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038295.D
 Acq On : 06 Dec 2025 04:35
 Operator : RC/JU
 Sample : Q3756-09
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EB01-120225

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 06 05:26:38 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

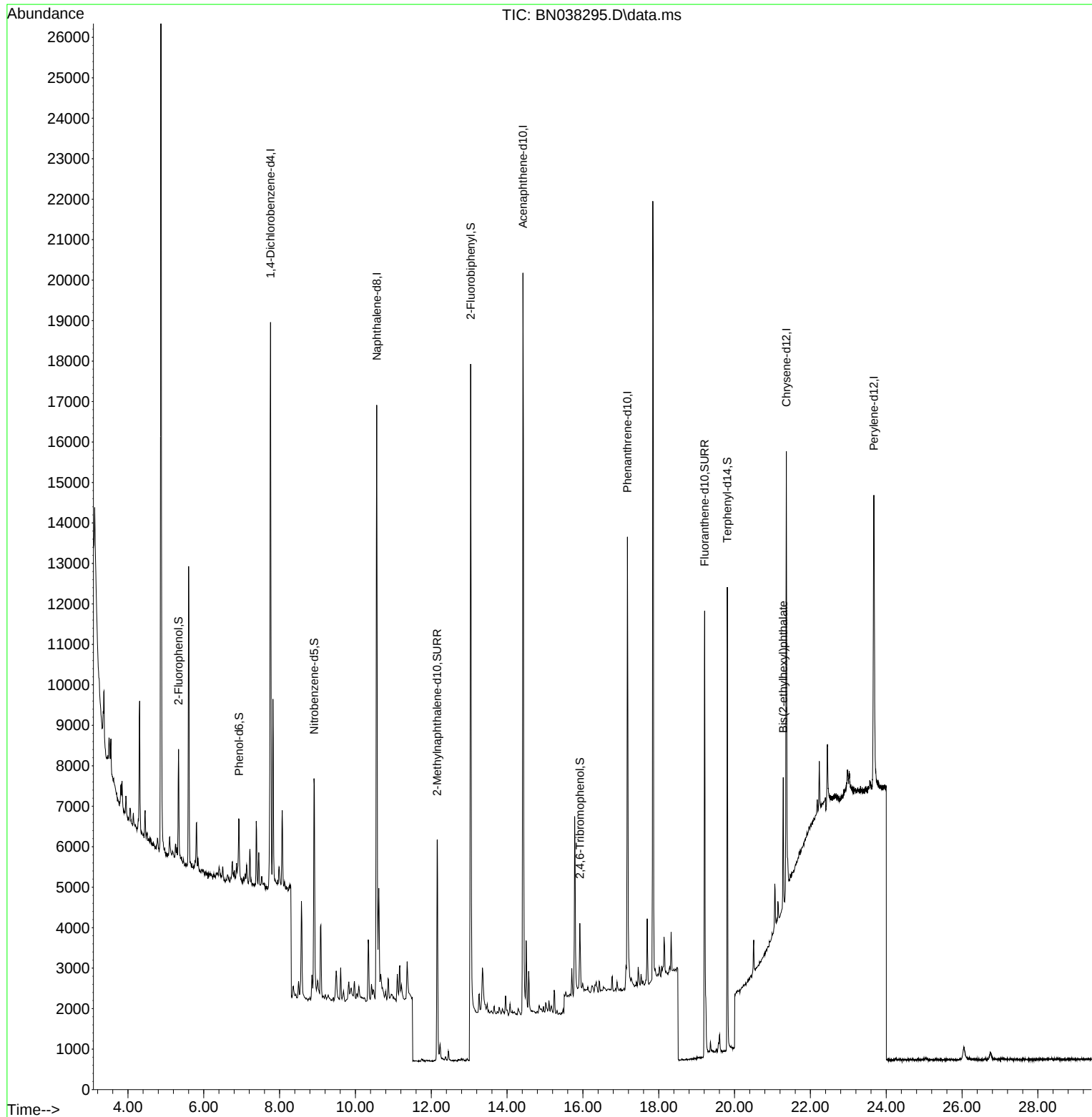
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6963	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	20031	0.400	ng	#-0.01
13) Acenaphthene-d10	14.420	164	11010	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	16237	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	10562	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	11226	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2246	0.138	ng	0.00
5) Phenol-d6	6.930	99	1559	0.077	ng	0.00
8) Nitrobenzene-d5	8.907	82	5223	0.326	ng	-0.01
11) 2-Methylnaphthalene-d10	12.156	152	8322	0.293	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1134	0.327	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	13771	0.324	ng	-0.01
27) Fluoranthene-d10	19.211	212	12624	0.358	ng	0.00
31) Terphenyl-d14	19.810	244	11042	0.453	ng	0.00
Target Compounds						
34) Bis(2-ethylhexyl)phtha...	21.286	149	3079	0.157	ng	Qvalue 99

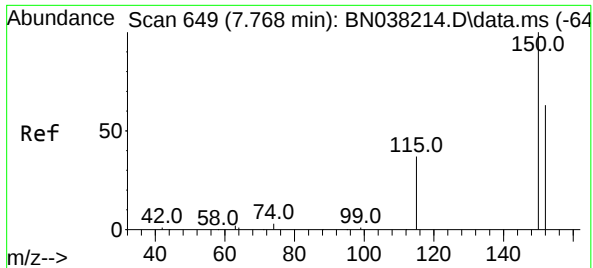
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038295.D
Acq On : 06 Dec 2025 04:35
Operator : RC/JU
Sample : Q3756-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 06 05:26:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

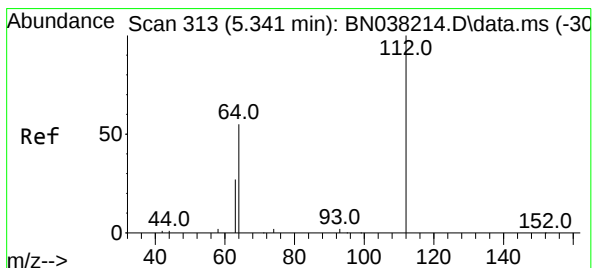
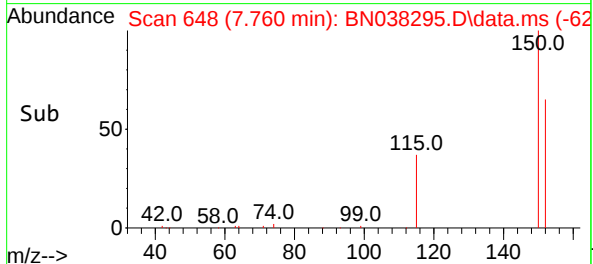
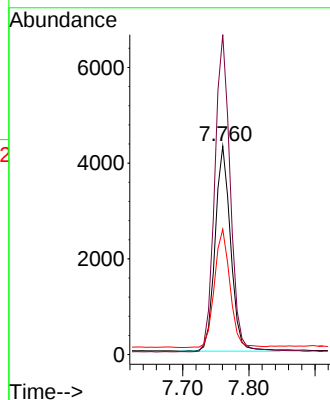
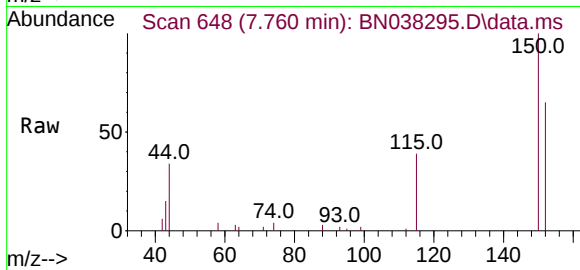




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

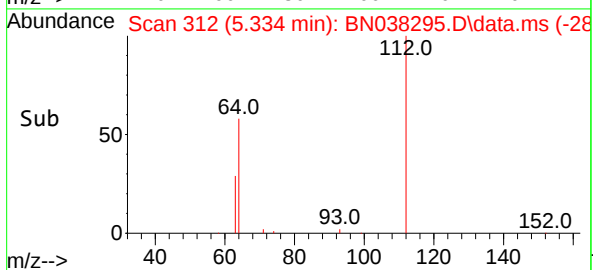
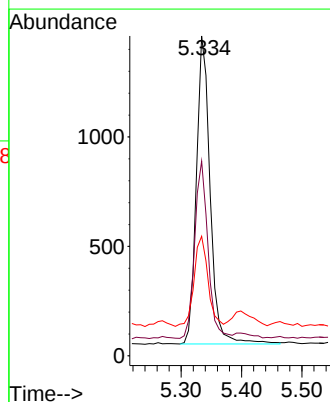
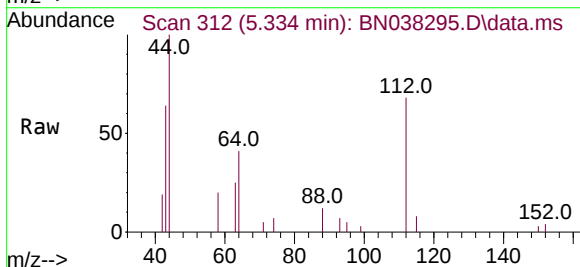
Instrument :
BNA_N
ClientSampleId :
EB01-120225

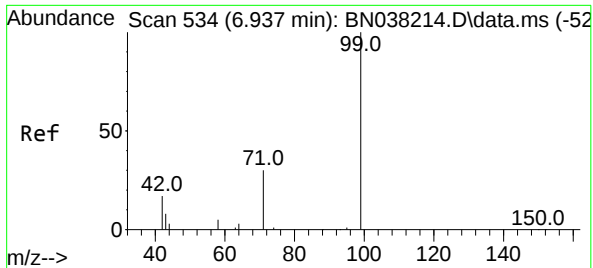
Tgt Ion:152 Resp: 6963
Ion Ratio Lower Upper
152 100
150 153.5 125.3 187.9
115 60.1 49.0 73.4



#4
2-Fluorophenol
Concen: 0.138 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:112 Resp: 2246
Ion Ratio Lower Upper
112 100
64 55.4 45.0 67.4
63 29.3 23.2 34.8

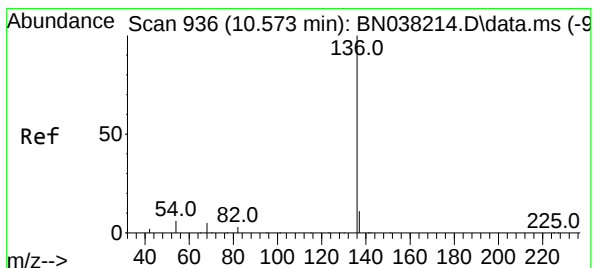
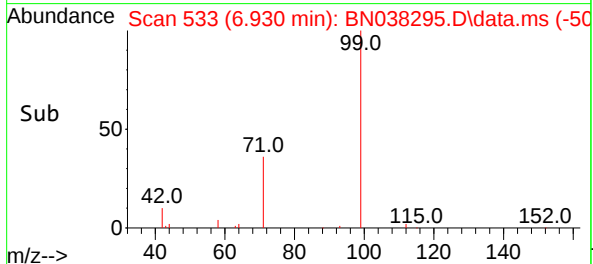
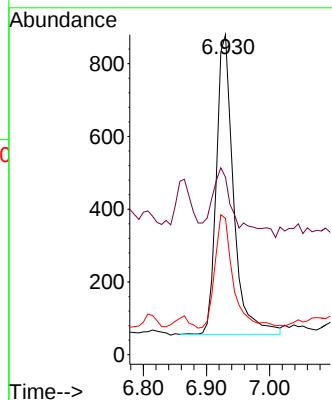
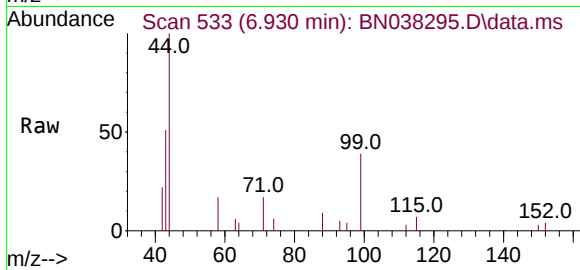




#5
Phenol-d6
Concen: 0.077 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

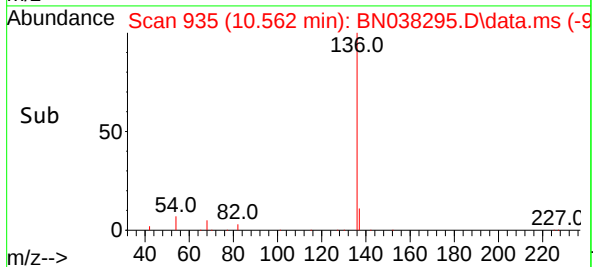
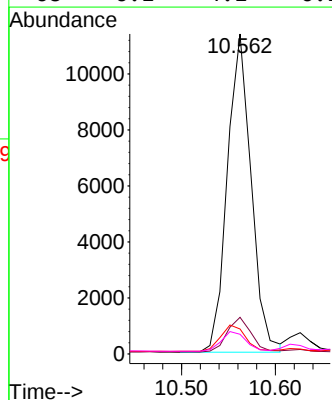
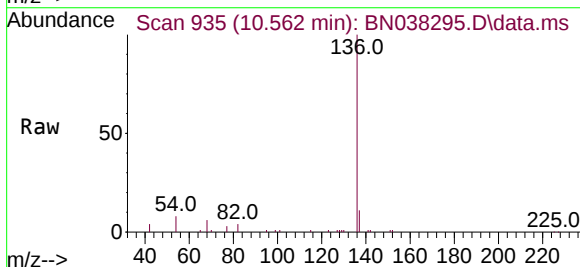
Instrument :
BNA_N
ClientSampleId :
EB01-120225

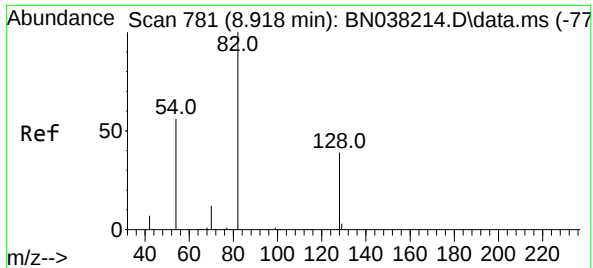
Tgt Ion: 99 Resp: 1559
Ion Ratio Lower Upper
99 100
42 29.4 17.0 25.6#
71 40.4 25.4 38.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion: 136 Resp: 20031
Ion Ratio Lower Upper
136 100
137 11.4 8.9 13.3
54 7.8 5.4 8.0
68 6.1 4.1 6.1#

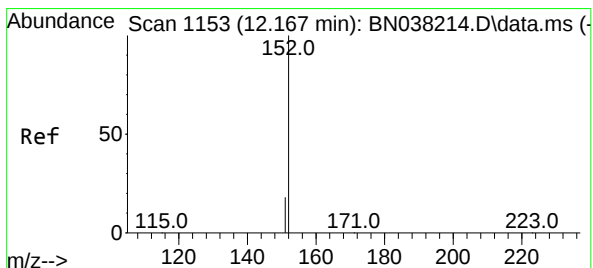
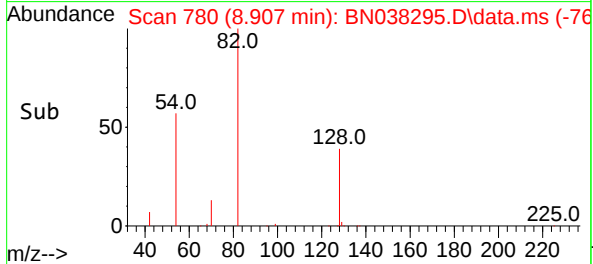
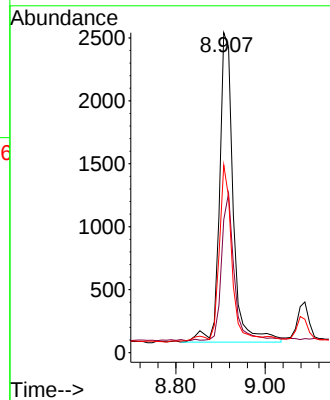
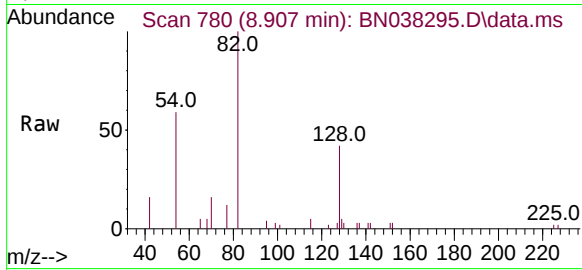




#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.907 min Scan# 781
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

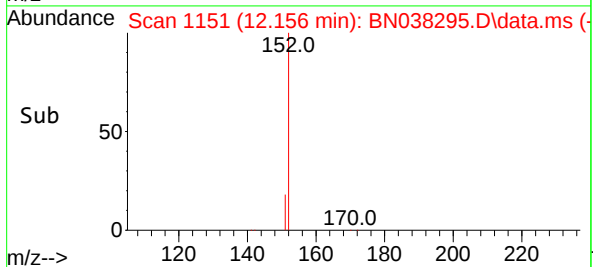
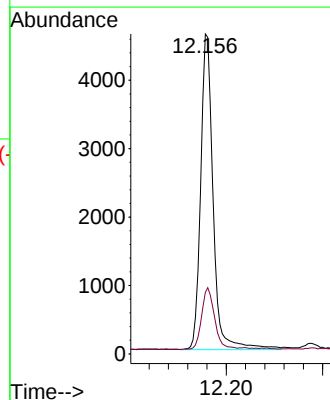
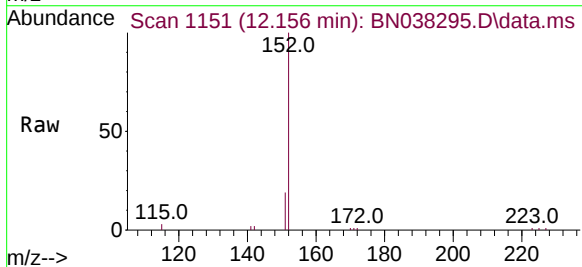
Instrument :
BNA_N
ClientSampleId :
EB01-120225

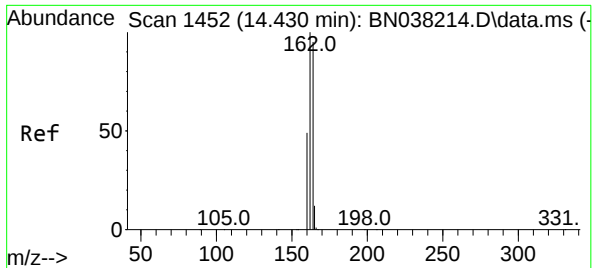
Tgt Ion:	82	Resp:	5223
Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.6	48.8
54	58.6	45.4	68.0



#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:	152	Resp:	8322
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.7	25.1

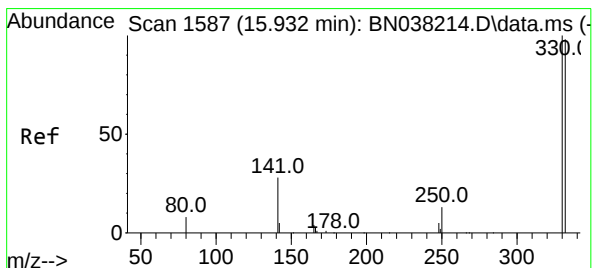
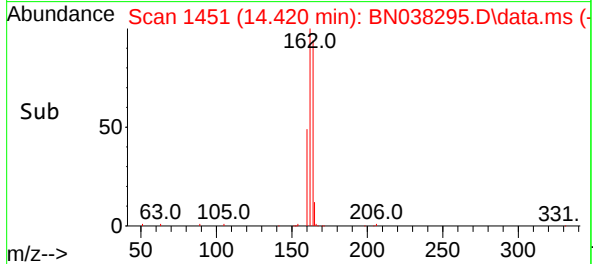
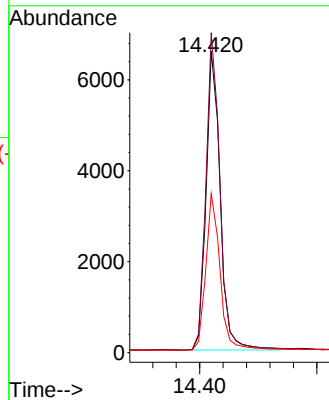
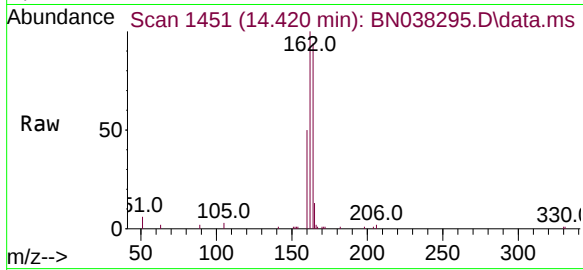




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 1452
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

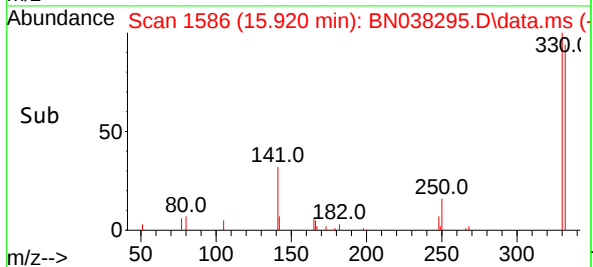
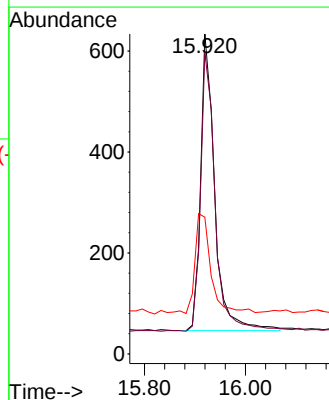
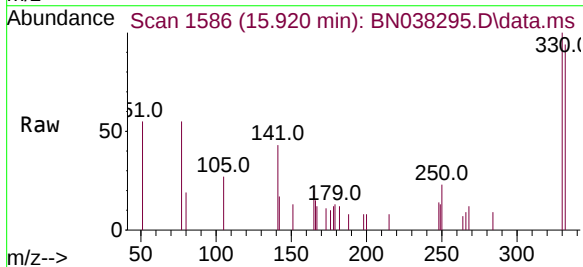
Instrument :
BNA_N
ClientSampleId :
EB01-120225

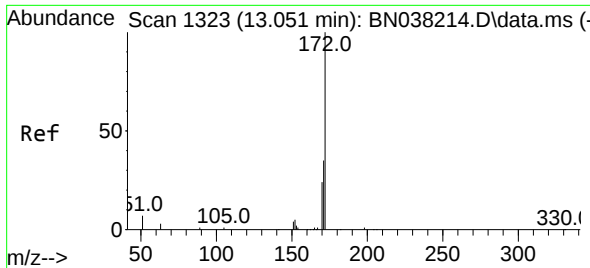
Tgt Ion:	164	Resp:	11010
Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.8	125.8
160	52.7	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:	330	Resp:	1134
Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.8	116.6
141	36.7	33.0	49.4

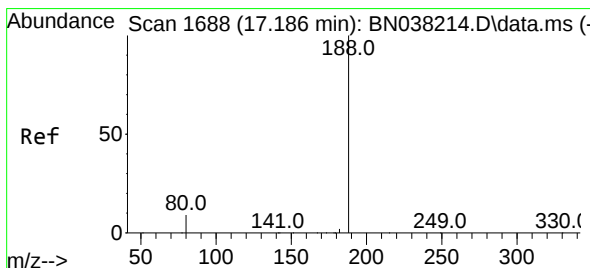
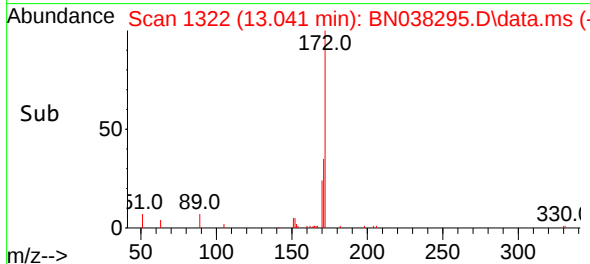
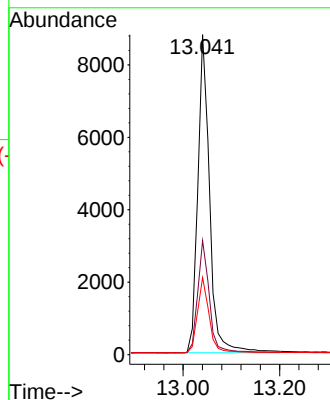
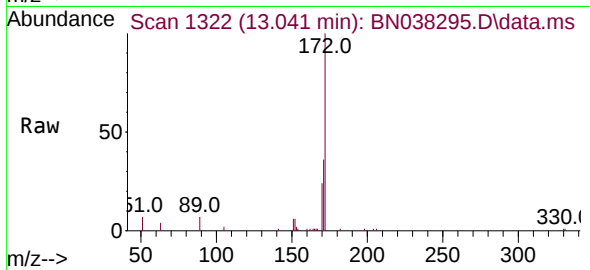




#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 13.041 min Scan# 1322
Delta R.T. -0.010 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

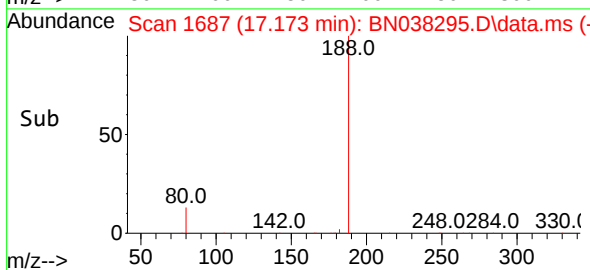
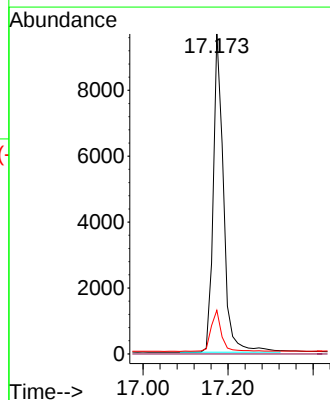
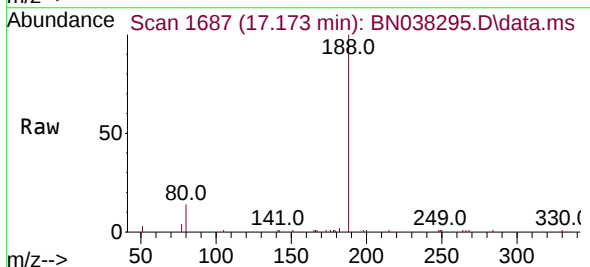
Instrument :
BNA_N
ClientSampleId :
EB01-120225

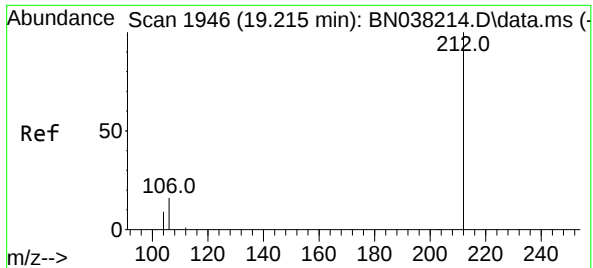
Tgt Ion:172	Resp:	13771
Ion Ratio	Lower	Upper
172	100	
171	35.6	28.1 42.1
170	24.1	19.1 28.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:188	Resp:	16237
Ion Ratio	Lower	Upper
188	100	
94	0.0	0.0 0.0
80	13.7	7.7 11.5





#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.211 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN038295.D

Acq: 06 Dec 2025 04:35

Instrument :

BNA_N

ClientSampleId :

EB01-120225

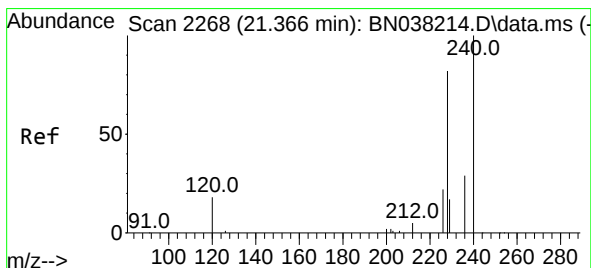
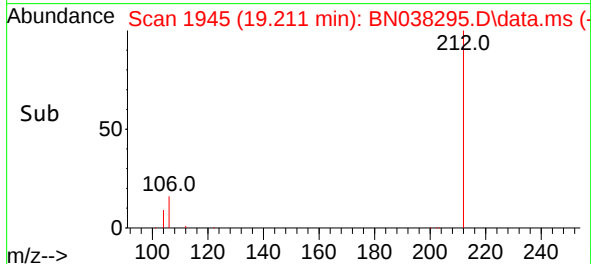
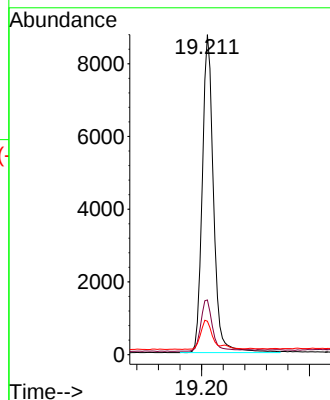
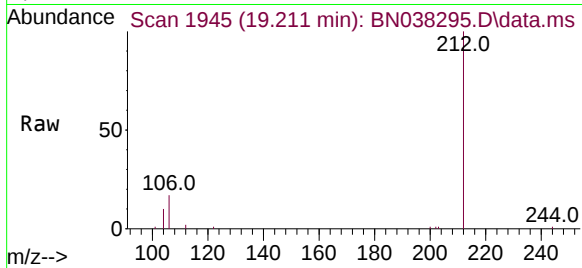
Tgt Ion:212 Resp: 12624

Ion Ratio Lower Upper

212 100

106 16.9 12.7 19.1

104 9.2 7.3 10.9



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.366 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN038295.D

Acq: 06 Dec 2025 04:35

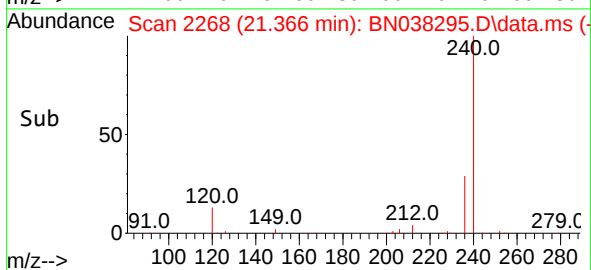
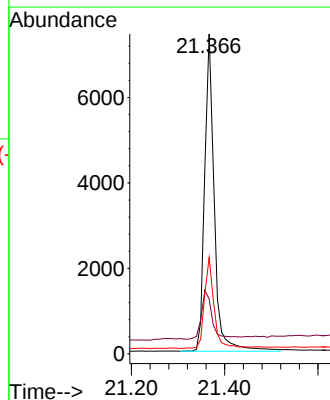
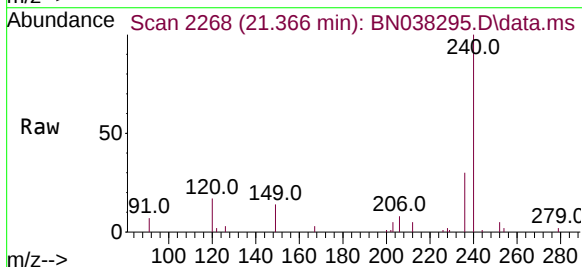
Tgt Ion:240 Resp: 10562

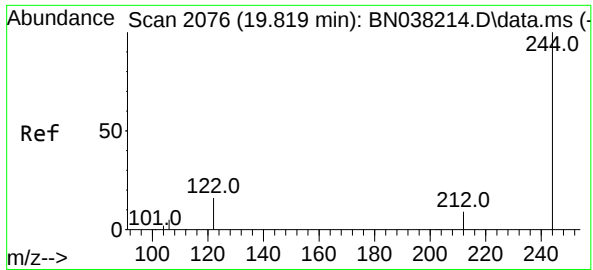
Ion Ratio Lower Upper

240 100

120 17.1 18.1 27.1#

236 30.1 24.2 36.4

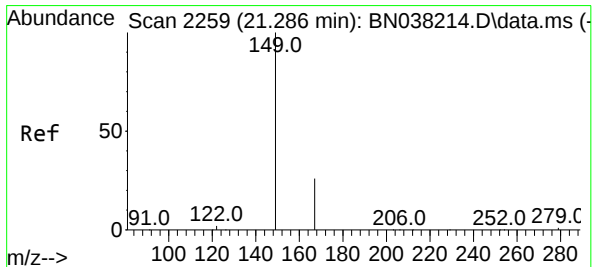
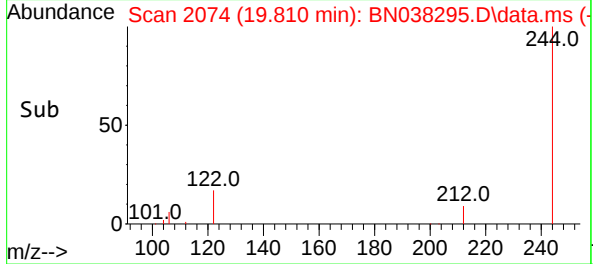
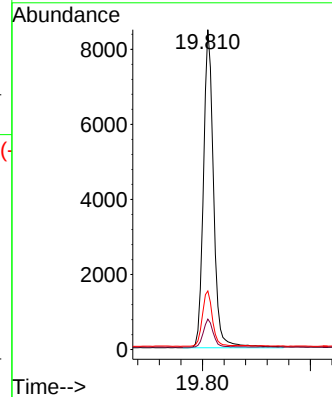
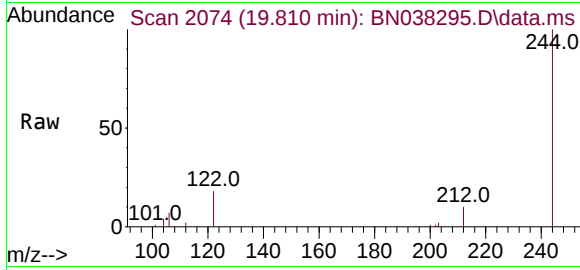




#31
Terphenyl-d14
Concen: 0.453 ng
RT: 19.810 min Scan# 2076
Delta R.T. -0.009 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

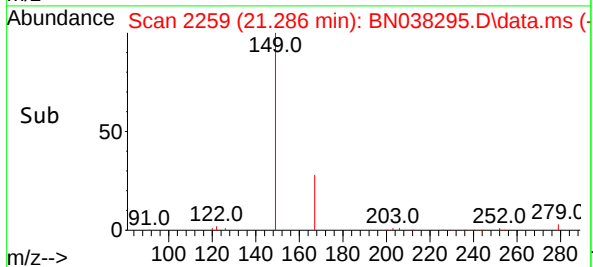
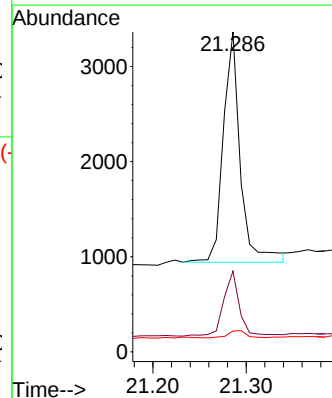
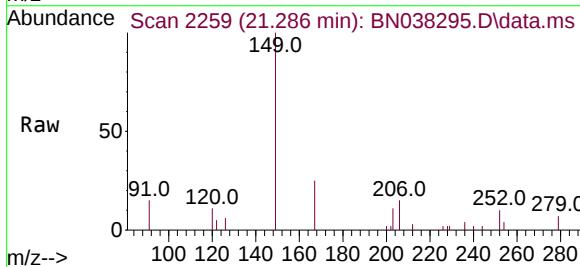
Instrument :
BNA_N
ClientSampleId :
EB01-120225

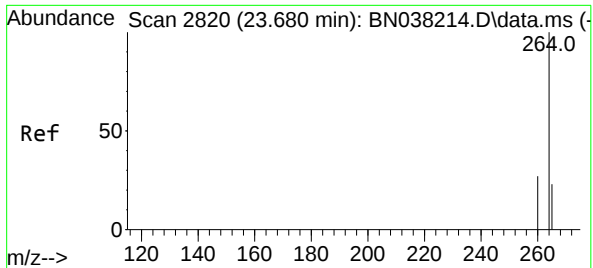
Tgt Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.7	11.5
122	18.3	13.6	20.4



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.157 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	3.4	2.5	3.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.674 min Scan# 2818

Delta R.T. -0.006 min

Lab File: BN038295.D

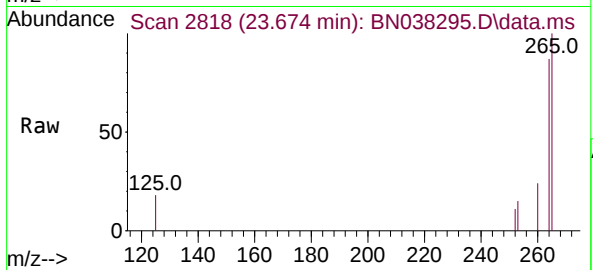
Acq: 06 Dec 2025 04:35

Instrument :

BNA_N

ClientSampleId :

EB01-120225



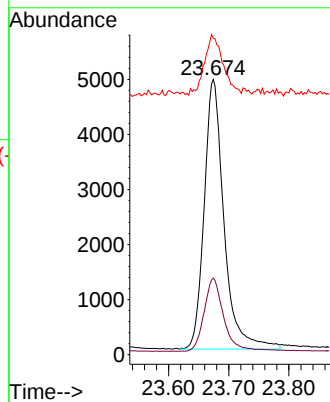
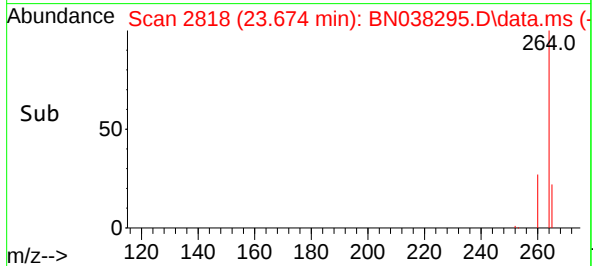
Tgt Ion:264 Resp: 11226

Ion Ratio Lower Upper

264 100

260 27.8 21.7 32.5

265 115.0 98.0 147.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038288.D
 Acq On : 06 Dec 2025 00:19
 Operator : RC/JU
 Sample : PB170838BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170838BL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 06 00:56:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7136	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	19157	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	8410	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	11693	0.400	ng	# 0.00
29) Chrysene-d12	21.375	240	9196	0.400	ng	# 0.00
35) Perylene-d12	23.677	264	9718	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	5905	0.354	ng	0.00
5) Phenol-d6	6.930	99	6410	0.308	ng	0.00
8) Nitrobenzene-d5	8.918	82	5582	0.364	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	8458	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.944	330	448	0.169	ng	0.01
15) 2-Fluorobiphenyl	13.051	172	12403	0.382	ng	0.00
27) Fluoranthene-d10	19.220	212	10011	0.395	ng	0.00
31) Terphenyl-d14	19.819	244	7406	0.349	ng	0.00

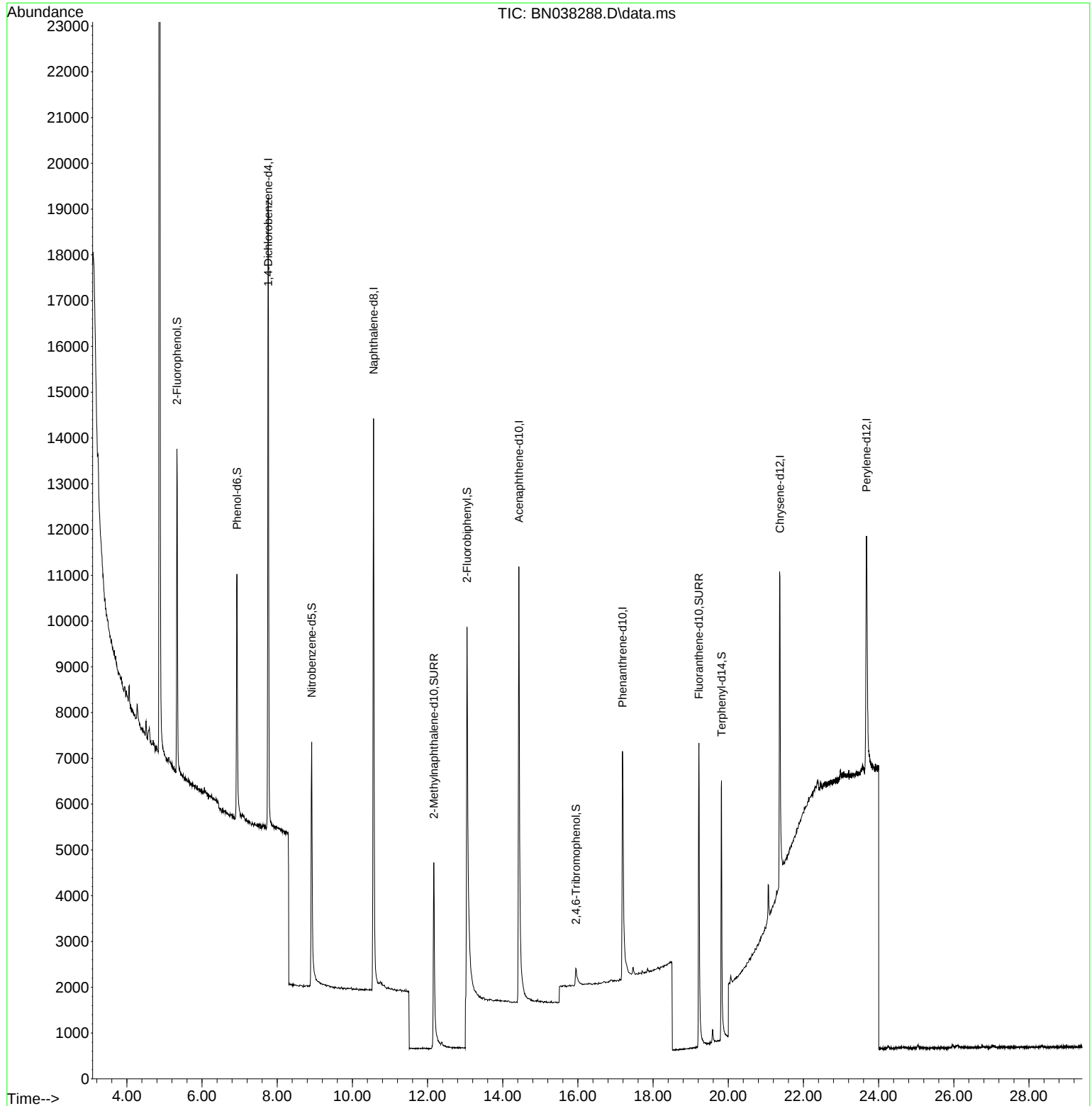
Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed

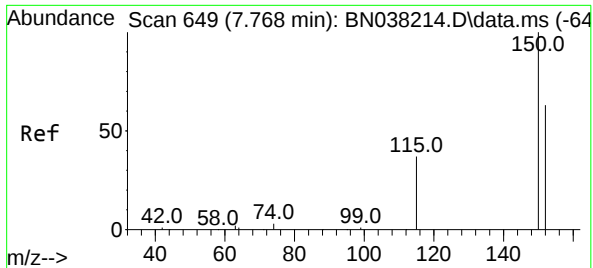
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038288.D
Acq On : 06 Dec 2025 00:19
Operator : RC/JU
Sample : PB170838BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Quant Time: Dec 06 00:56:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

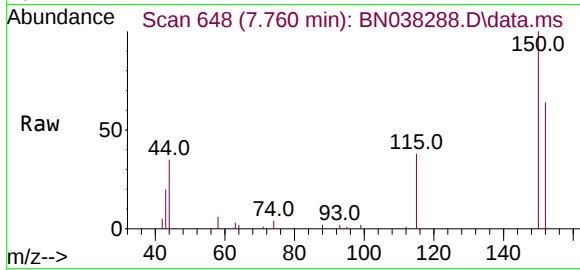


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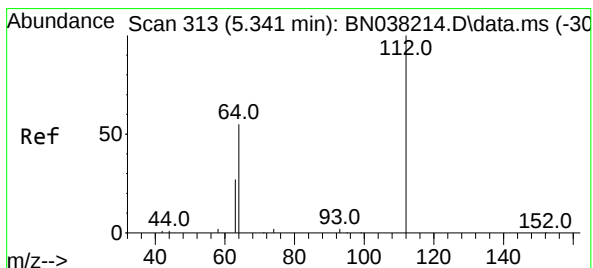
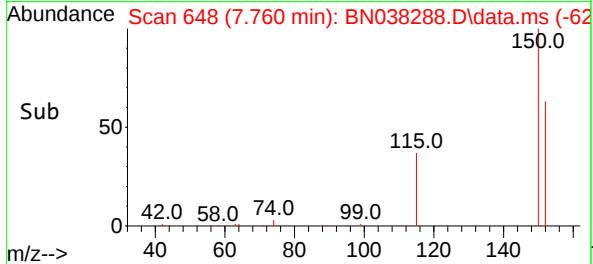
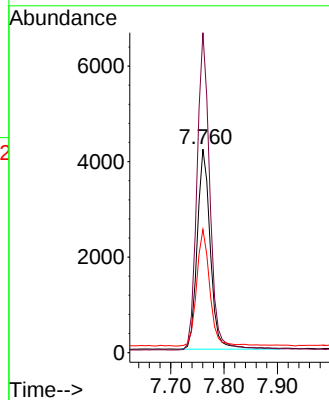


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

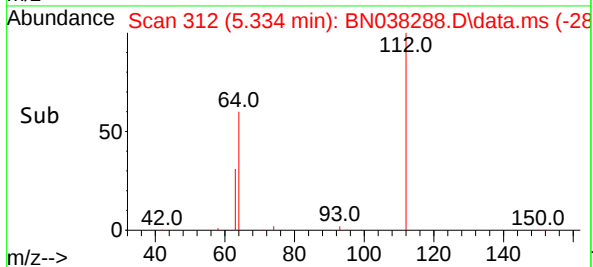
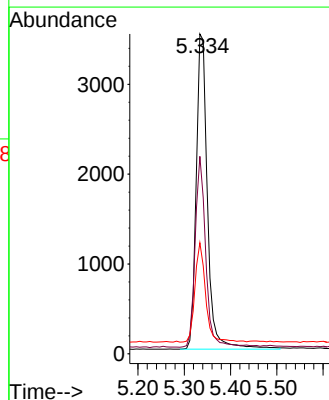
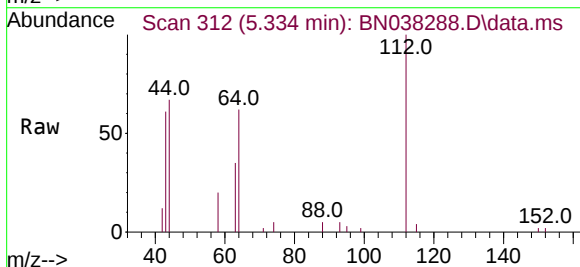


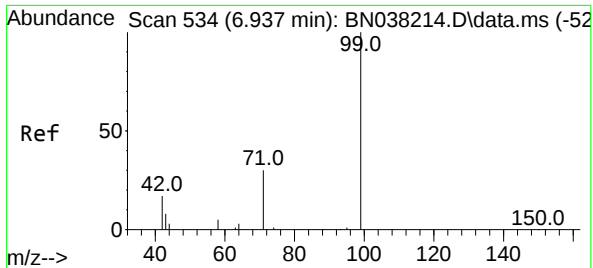
Tgt Ion:152 Resp: 7136
Ion Ratio Lower Upper
152 100
150 157.3 125.3 187.9
115 60.5 49.0 73.4



#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:112 Resp: 5905
Ion Ratio Lower Upper
112 100
64 56.7 45.0 67.4
63 29.9 23.2 34.8

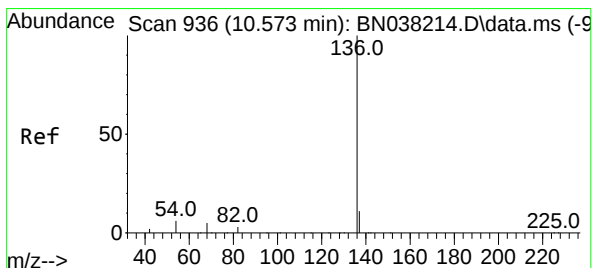
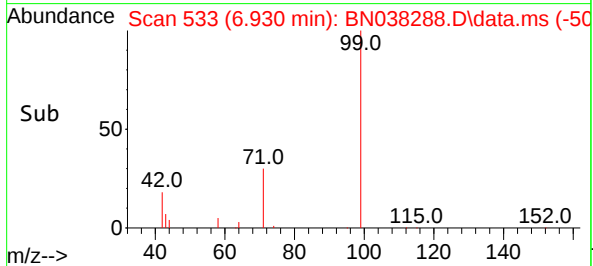
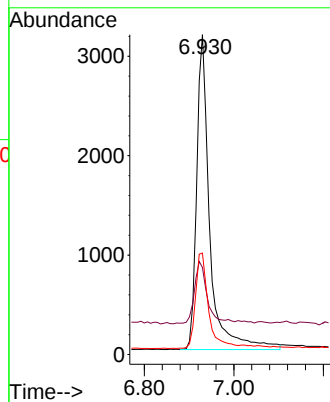
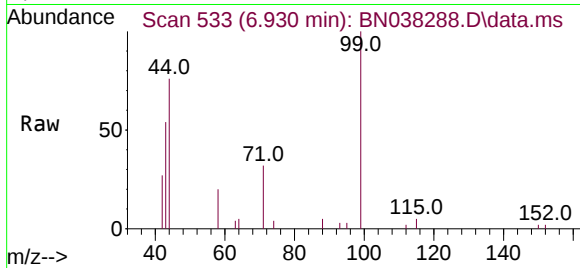




#5
Phenol-d6
Concen: 0.308 ng
RT: 6.930 min Scan# 531
Delta R.T. -0.007 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

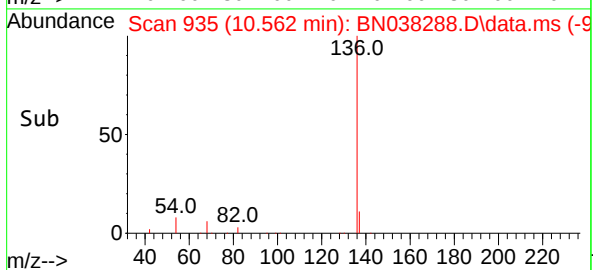
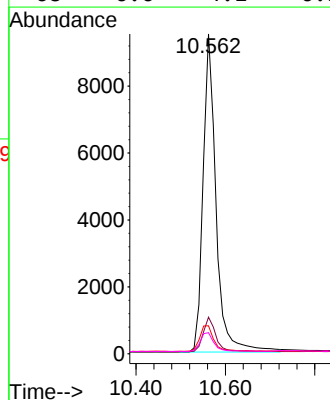
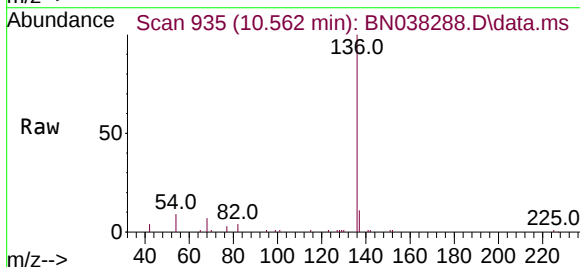
Instrument :
BNA_N
ClientSampleId :
PB170838BL

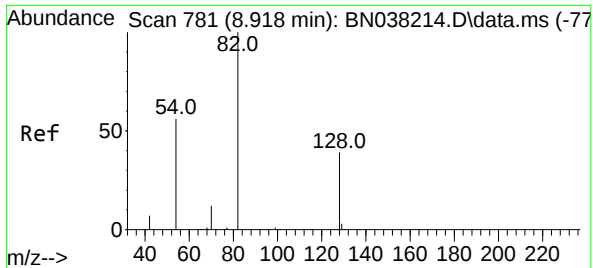
Tgt Ion: 99 Resp: 6410
Ion Ratio Lower Upper
99 100
42 19.6 17.0 25.6
71 30.2 25.4 38.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion: 136 Resp: 19157
Ion Ratio Lower Upper
136 100
137 11.5 8.9 13.3
54 8.8 5.4 8.0#
68 6.6 4.1 6.1#

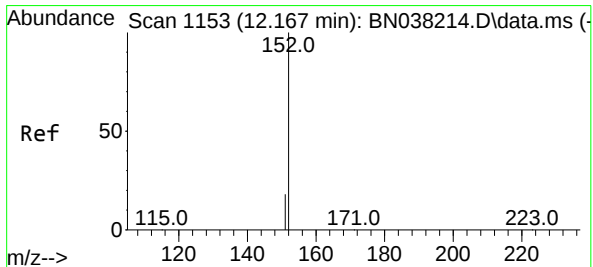
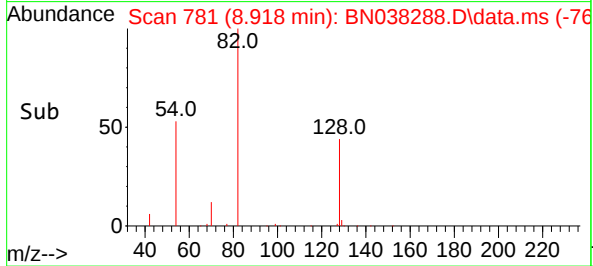
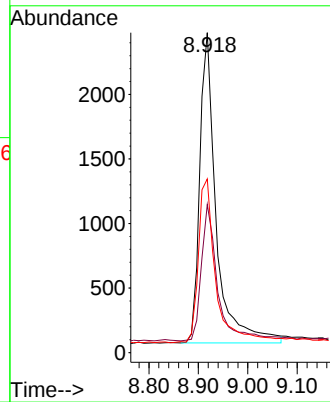
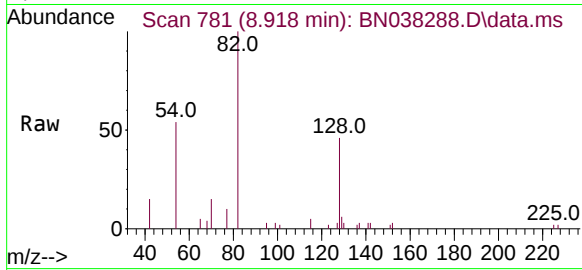




#8
Nitrobenzene-d5
Concen: 0.364 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

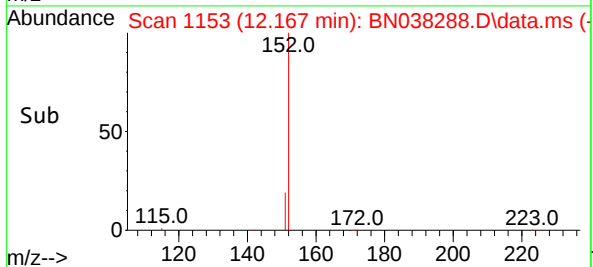
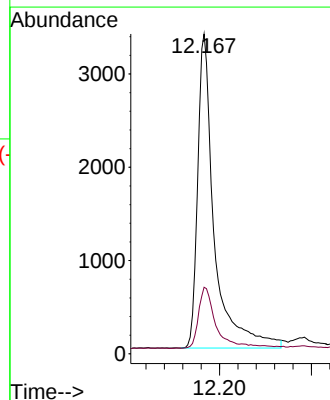
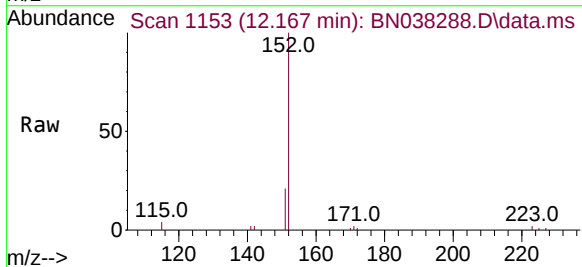
Instrument :
BNA_N
ClientSampleId :
PB170838BL

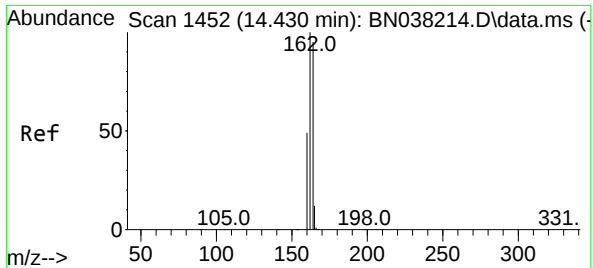
Tgt Ion:	82	Resp:	5582
Ion	Ratio	Lower	Upper
82	100		
128	46.3	32.6	48.8
54	54.3	45.4	68.0



#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:	152	Resp:	8458
Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.7	25.1

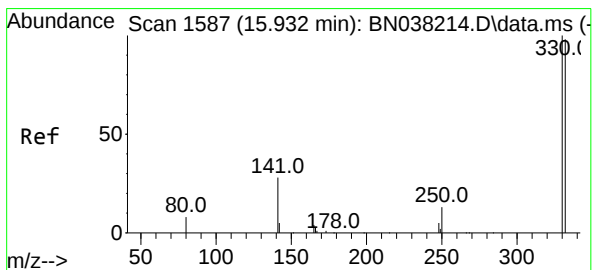
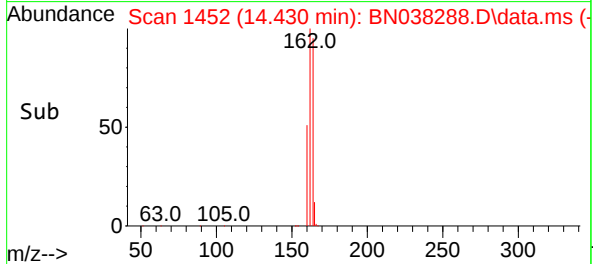
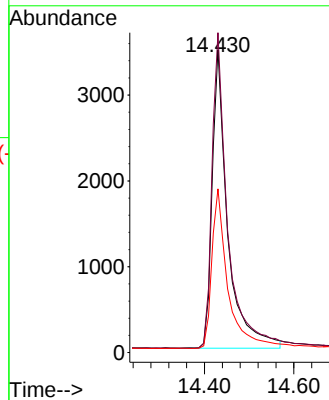
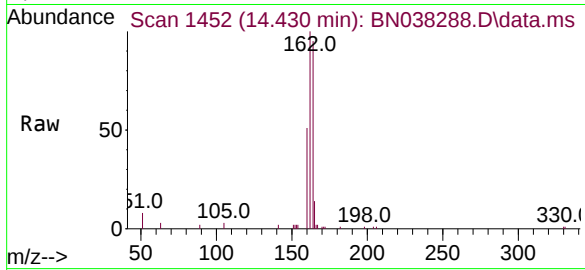




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 1452
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

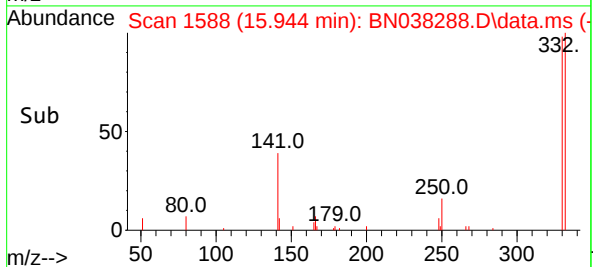
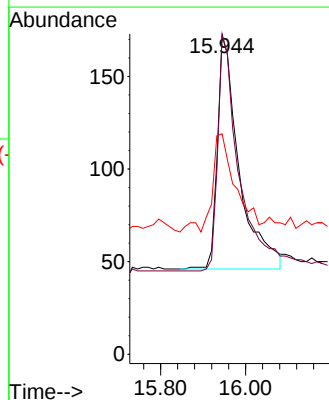
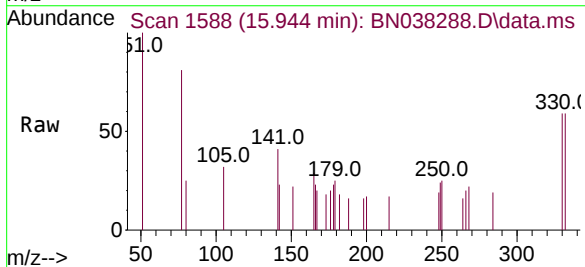
Instrument :
BNA_N
ClientSampleId :
PB170838BL

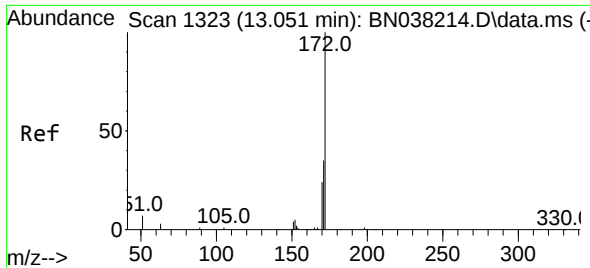
Tgt Ion:	164	Resp:	8410
Ion Ratio	Lower	Upper	
164	100		
162	105.6	83.8	125.8
160	54.0	41.6	62.4



#14
2,4,6-Tribromophenol
Concen: 0.169 ng
RT: 15.944 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:	330	Resp:	448
Ion Ratio	Lower	Upper	
330	100		
332	98.4	77.8	116.6
141	44.0	33.0	49.4

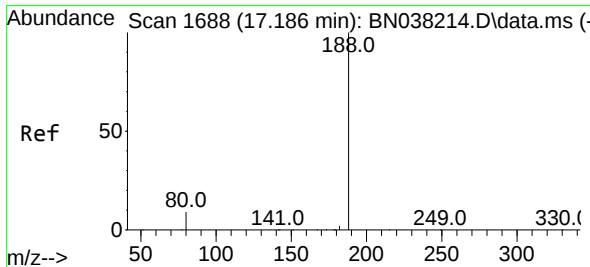
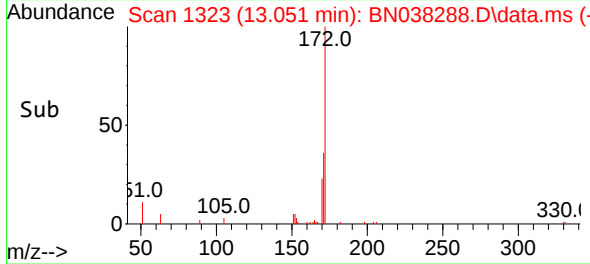
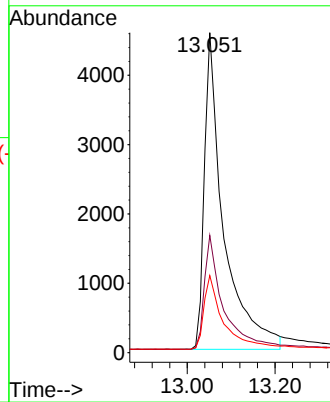
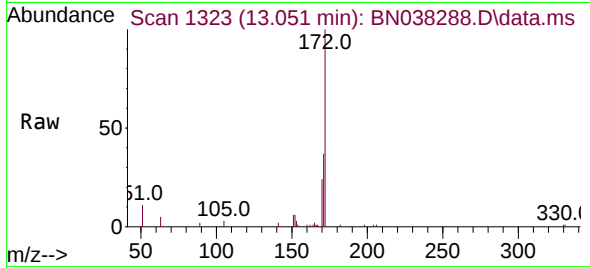




#15
2-Fluorobiphenyl
Concen: 0.382 ng
RT: 13.051 min Scan# 1323
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

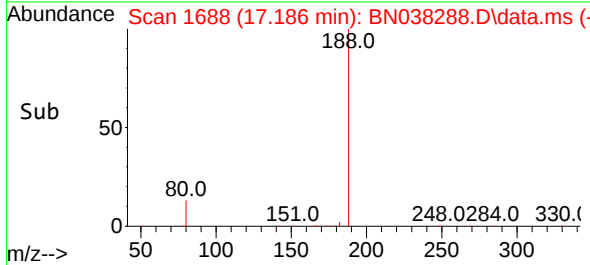
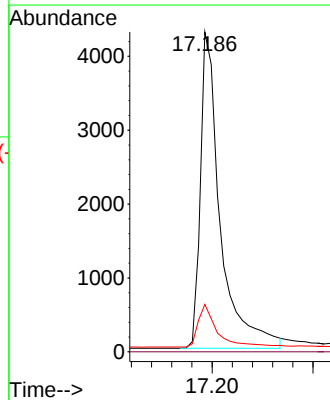
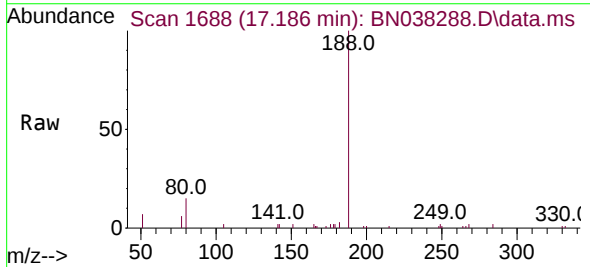
Instrument :
BNA_N
ClientSampleId :
PB170838BL

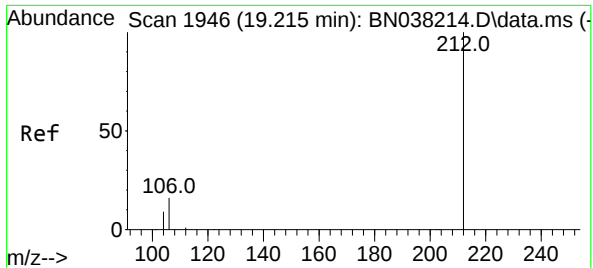
Tgt Ion:	172	Resp:	12403
Ion Ratio	Lower	Upper	
172	100		
171	36.6	28.1	42.1
170	24.1	19.1	28.7



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:	188	Resp:	11693
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	14.8	7.7	11.5

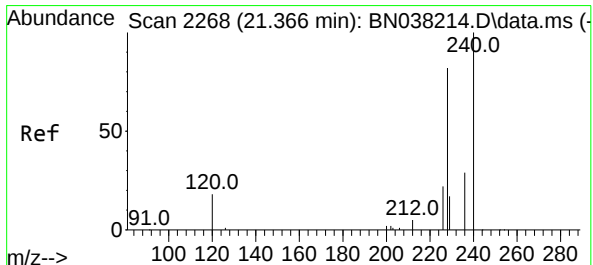
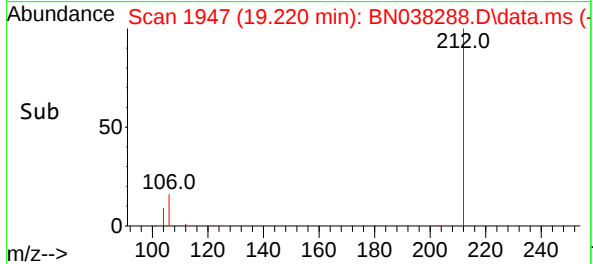
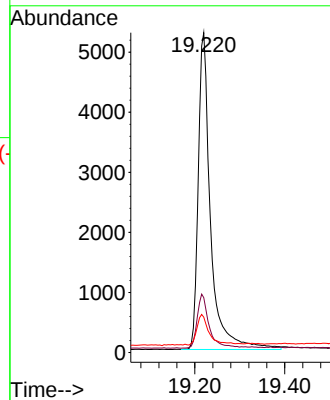
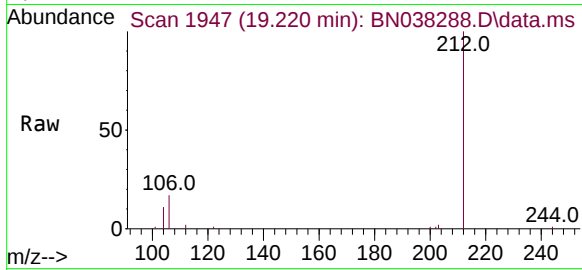




#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.220 min Scan# 1947
Delta R.T. 0.005 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

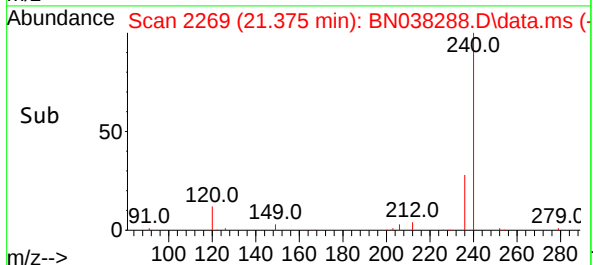
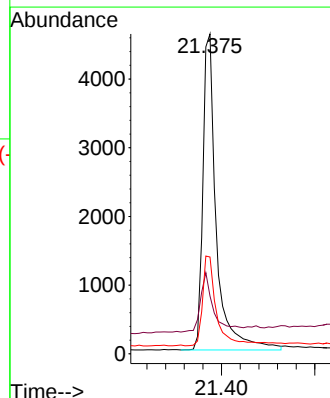
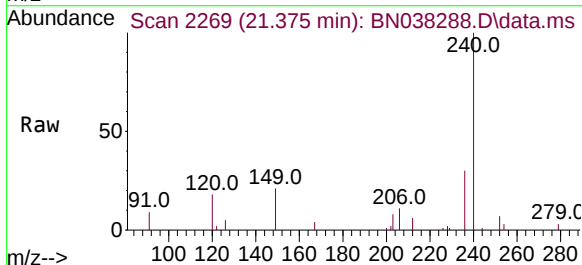
Instrument :
BNA_N
ClientSampleId :
PB170838BL

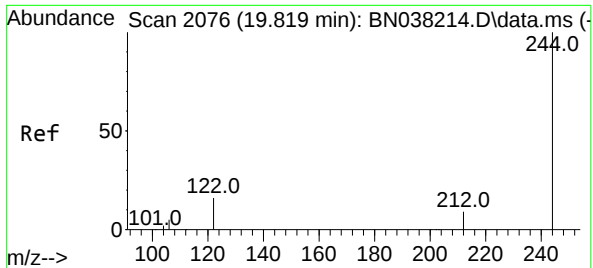
Tgt Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.7	19.1
104	9.7	7.3	10.9



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2269
Delta R.T. 0.009 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.1	18.1	27.1#
236	30.2	24.2	36.4

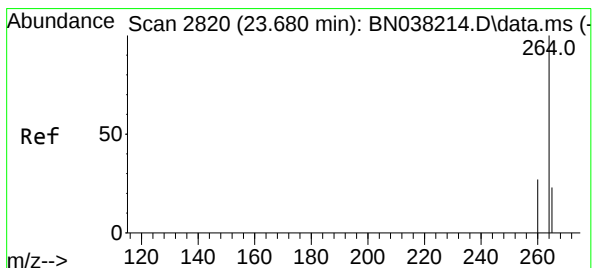
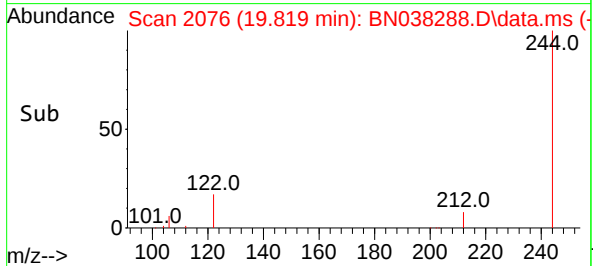
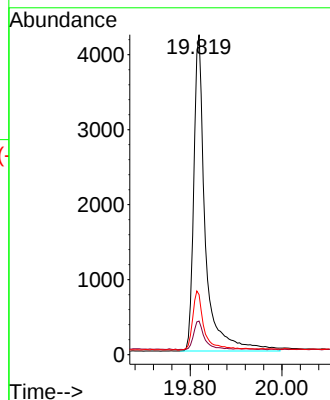
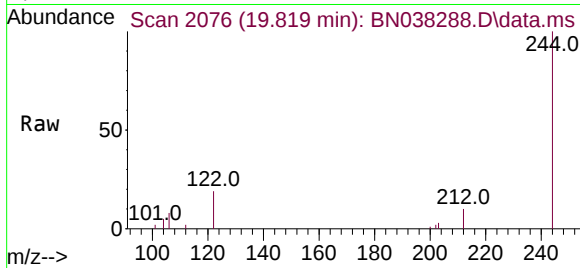




#31
Terphenyl-d14
Concen: 0.349 ng
RT: 19.819 min Scan# 2076
Delta R.T. -0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

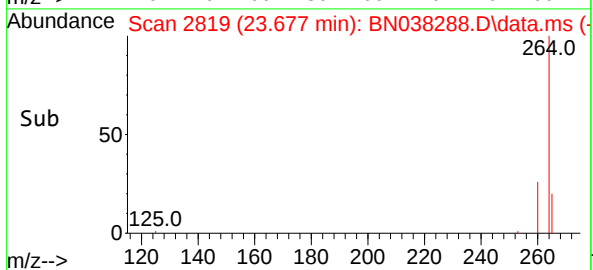
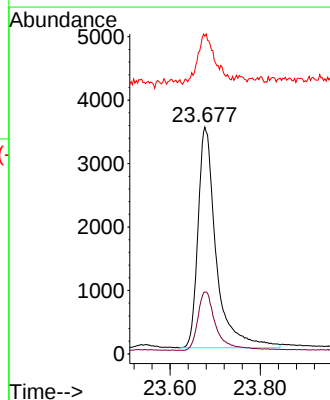
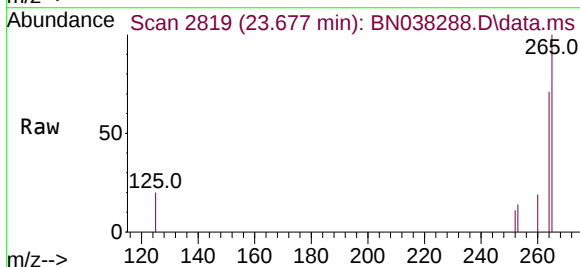
Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.5	7.7	11.5
122	18.7	13.6	20.4



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 2819
Delta R.T. -0.003 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.7	32.5
265	140.0	98.0	147.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038289.D
 Acq On : 06 Dec 2025 00:55
 Operator : RC/JU
 Sample : PB170838BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB170838BS

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 12/08/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 06 01:31:20 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 21:04:10 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7065	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18764	0.400	ng	#-0.01
13) Acenaphthene-d10	14.419	164	7890	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	11230	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9380	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	9467	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	6540	0.396	ng	0.00
5) Phenol-d6	6.930	99	7356	0.357	ng	0.00
8) Nitrobenzene-d5	8.907	82	6354	0.423	ng	-0.01
11) 2-Methylnaphthalene-d10	12.161	152	10719m	0.402	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	842	0.339	ng	0.00
15) 2-Fluorobiphenyl	13.040	172	14399	0.472	ng	-0.01
27) Fluoranthene-d10	19.211	212	10168	0.417	ng	0.00
31) Terphenyl-d14	19.814	244	7877	0.364	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.254	88	2458	0.330	ng	# 34
3) n-Nitrosodimethylamine	3.557	42	3487	0.380	ng	# 94
6) bis(2-Chloroethyl)ether	7.183	93	7355	0.372	ng	97
9) Naphthalene	10.615	128	20286	0.389	ng	100
10) Hexachlorobutadiene	10.904	225	3715	0.419	ng	# 100
12) 2-Methylnaphthalene	12.232	142	11265	0.329	ng	98
16) Acenaphthylene	14.142	152	15238	0.432	ng	99
17) Acenaphthene	14.484	154	9248	0.376	ng	99
18) Fluorene	15.478	166	11047	0.347	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	252	0.381	ng	# 84
21) 4-Bromophenyl-phenylether	16.379	248	2987	0.384	ng	98
22) Hexachlorobenzene	16.491	284	3789	0.396	ng	99
23) Atrazine	16.639	200	1928	0.388	ng	# 93
24) Pentachlorophenol	16.838	266	1901	0.725	ng	98
25) Phenanthrene	17.223	178	13357	0.379	ng	99
26) Anthracene	17.310	178	11917	0.396	ng	99
28) Fluoranthene	19.243	202	13981	0.411	ng	99
30) Pyrene	19.605	202	14466	0.309	ng	99
32) Benzo(a)anthracene	21.348	228	12883	0.406	ng	100
33) Chrysene	21.402	228	15070	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	5639	0.324	ng	99
36) Indeno(1,2,3-cd)pyrene	26.028	276	18395	0.420	ng	99
37) Benzo(b)fluoranthene	22.975	252	14844	0.382	ng	99
38) Benzo(k)fluoranthene	23.022	252	16342	0.405	ng	100
39) Benzo(a)pyrene	23.572	252	13524	0.415	ng	97
40) Dibenzo(a,h)anthracene	26.042	278	13869	0.418	ng	99
41) Benzo(g,h,i)perylene	26.738	276	16373	0.413	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038289.D
 Acq On : 06 Dec 2025 00:55
 Operator : RC/JU
 Sample : PB170838BS
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB170838BS

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025

Supervised By :mohammad ahmed 12/09/2025

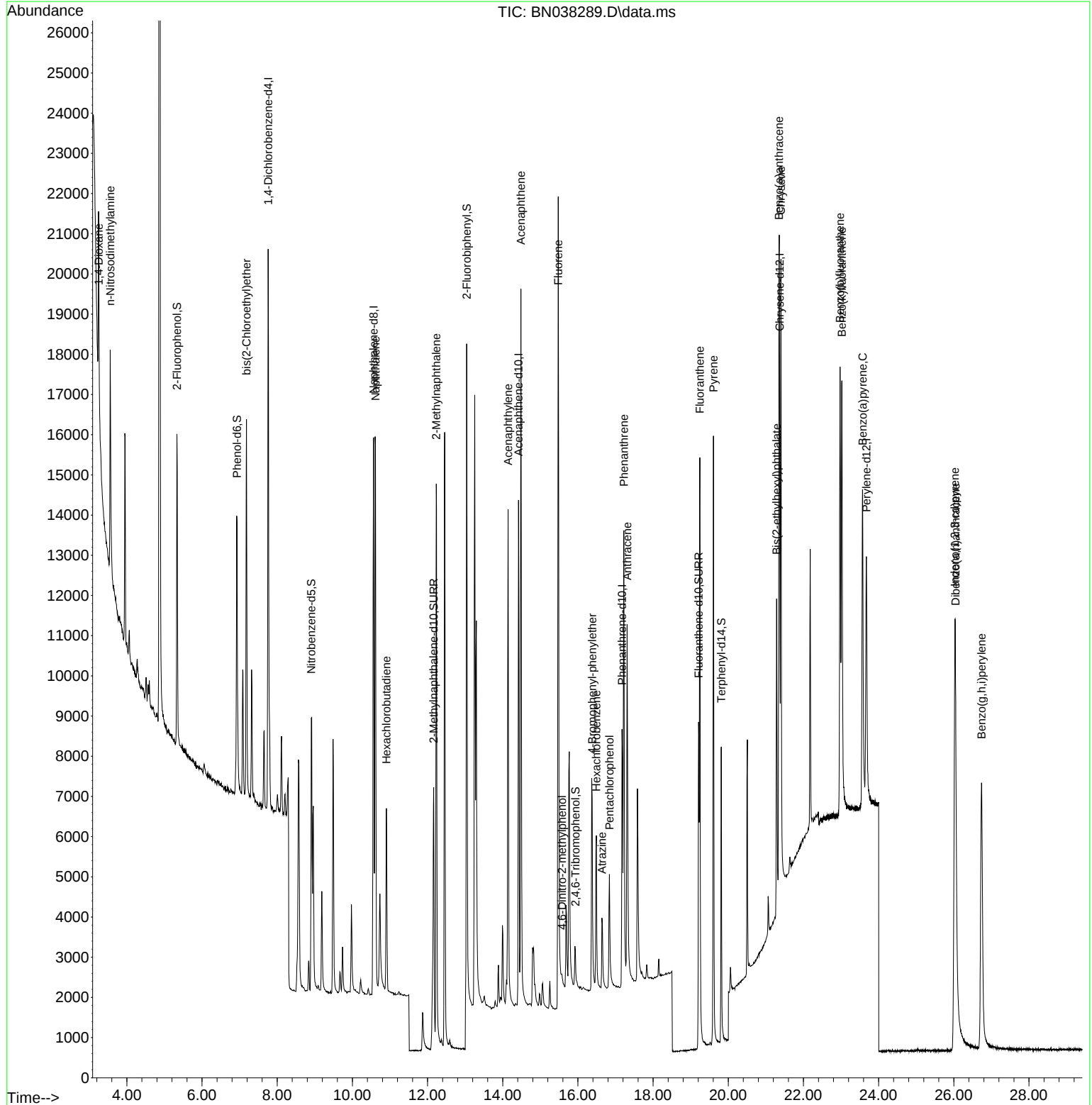
Quant Time: Dec 06 01:31:20 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 21:04:10 2025

Response via : Initial Calibration

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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038290.D
 Acq On : 06 Dec 2025 01:32
 Operator : RC/JU
 Sample : PB170838BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170838BSD

Manual Integrations
 APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
 Supervised By :mohammad ahmed 12/09/2025

Quant Time: Dec 06 03:22:41 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Nov 28 21:04:10 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.761	152	6710	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	17808	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	7711	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	11030	0.400	ng	#-0.01
29) Chrysene-d12	21.367	240	9170	0.400	ng	0.00
35) Perylene-d12	23.674	264	9318	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	5574	0.355	ng	0.00
5) Phenol-d6	6.930	99	6244	0.319	ng	0.00
8) Nitrobenzene-d5	8.907	82	5209	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.162	152	8483m	0.336	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	753	0.310	ng	0.00
15) 2-Fluorobiphenyl	13.041	172	12021	0.404	ng	-0.01
27) Fluoranthene-d10	19.211	212	9232	0.386	ng	0.00
31) Terphenyl-d14	19.815	244	7154	0.338	ng	0.00
Target Compounds					Qvalue	
2) 1,4-Dioxane	3.254	88	2191	0.310	ng	# 46
3) n-Nitrosodimethylamine	3.557	42	2989	0.343	ng	96
6) bis(2-Chloroethyl)ether	7.183	93	6324	0.337	ng	97
9) Naphthalene	10.605	128	17110	0.346	ng	99
10) Hexachlorobutadiene	10.904	225	3172	0.377	ng	# 98
12) 2-Methylnaphthalene	12.233	142	9566	0.294	ng	99
16) Acenaphthylene	14.142	152	13059	0.379	ng	99
17) Acenaphthene	14.484	154	7931	0.330	ng	98
18) Fluorene	15.478	166	9500	0.305	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	206	0.347	ng	# 64
21) 4-Bromophenyl-phenylether	16.379	248	2578	0.337	ng	99
22) Hexachlorobenzene	16.491	284	3363	0.358	ng	97
23) Atrazine	16.640	200	1714	0.351	ng	# 91
24) Pentachlorophenol	16.838	266	1688	0.655	ng	99
25) Phenanthrene	17.223	178	11833	0.342	ng	99
26) Anthracene	17.310	178	10550	0.357	ng	100
28) Fluoranthene	19.243	202	12671	0.380	ng	99
30) Pyrene	19.606	202	13070	0.285	ng	100
32) Benzo(a)anthracene	21.349	228	11259	0.363	ng	99
33) Chrysene	21.402	228	13503	0.368	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	5015	0.295	ng	98
36) Indeno(1,2,3-cd)pyrene	26.028	276	16471	0.382	ng	99
37) Benzo(b)fluoranthene	22.976	252	13219	0.346	ng	97
38) Benzo(k)fluoranthene	23.022	252	14429	0.363	ng	97
39) Benzo(a)pyrene	23.569	252	11901	0.371	ng	98
40) Dibenzo(a,h)anthracene	26.045	278	12263	0.376	ng	99
41) Benzo(g,h,i)perylene	26.738	276	14353	0.368	ng	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
 Data File : BN038290.D
 Acq On : 06 Dec 2025 01:32
 Operator : RC/JU
 Sample : PB170838BSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB170838BSD

Manual Integrations**APPROVED**

Reviewed By :Jagrut Upadhyay 12/08/2025

Supervised By :mohammad ahmed 12/09/2025

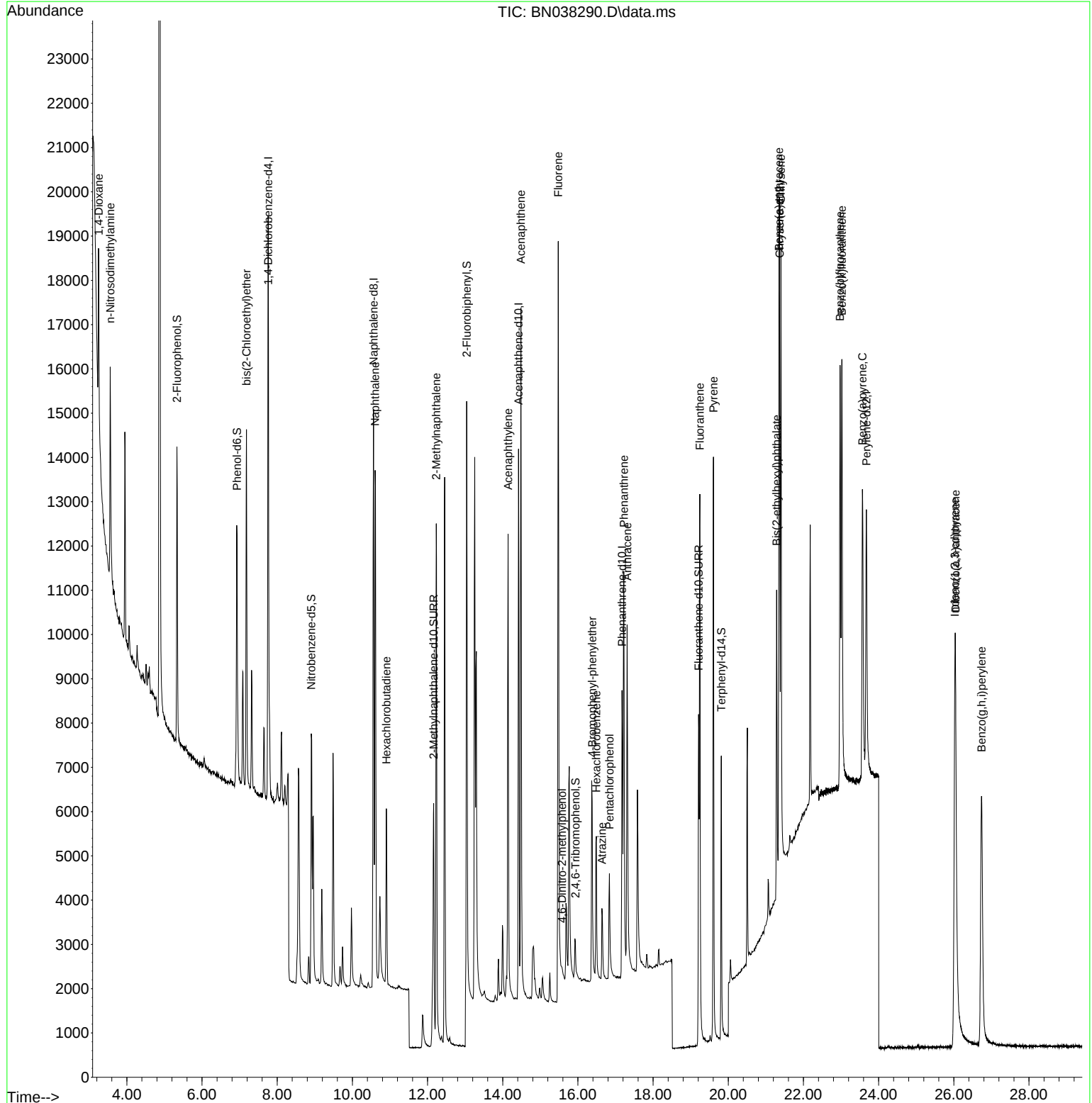
Quant Time: Dec 06 03:22:41 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Nov 28 21:04:10 2025

Response via : Initial Calibration



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

Manual Integration Report

Sequence:

BN112725

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN038212.D	Benzo(g,h,i)perylene	Jagrut	12/2/2025 4:10:05 PM	mohammad	12/3/2025 1:12:27 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

BN120625

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170838BS	BN038289.D	2-Methylnaphthalene-d1 0	Jagrut	12/8/2025 3:29:59 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software
PB170838BSD	BN038290.D	2-Methylnaphthalene-d1 0	Jagrut	12/8/2025 3:30:02 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software
Q3756-07	BN038294.D	Phenanthrene	Jagrut	12/8/2025 3:30:04 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN121025

Instrument

BNA_n

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

Manual Integration Report

Sequence:	BN121125	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
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Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038211.D	26 Nov 2025 19:55	RC/JU	Ok
2	SSTDIC0.1	BN038212.D	26 Nov 2025 20:35	RC/JU	Ok,M
3	SSTDIC0.2	BN038213.D	26 Nov 2025 21:12	RC/JU	Ok
4	SSTDIC0.4	BN038214.D	26 Nov 2025 21:48	RC/JU	Ok
5	SSTDIC0.8	BN038215.D	26 Nov 2025 22:25	RC/JU	Ok
6	SSTDIC1.6	BN038216.D	26 Nov 2025 23:01	RC/JU	Ok
7	SSTDIC3.2	BN038217.D	26 Nov 2025 23:37	RC/JU	Ok
8	SSTDIC5.0	BN038218.D	27 Nov 2025 00:13	RC/JU	Ok
9	SSTDICV0.4	BN038219.D	27 Nov 2025 00:49	RC/JU	Ok
10	PB170483BL	BN038220.D	27 Nov 2025 02:01	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN120625

Review By	Jagrut	Review On	12/8/2025 3:30:30 PM
Supervise By	mohammad	Supervise On	12/9/2025 12:44:58 AM
SubDirectory	BN120625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038286.D	05 Dec 2025 22:23	RC/JU	Ok
2	SSTDCCC0.4	BN038287.D	05 Dec 2025 23:42	RC/JU	Ok
3	PB170838BL	BN038288.D	06 Dec 2025 00:19	RC/JU	Ok
4	PB170838BS	BN038289.D	06 Dec 2025 00:55	RC/JU	Ok,M
5	PB170838BSD	BN038290.D	06 Dec 2025 01:32	RC/JU	Ok,M
6	Q3756-01	BN038291.D	06 Dec 2025 02:08	RC/JU	Ok
7	Q3756-03	BN038292.D	06 Dec 2025 02:45	RC/JU	Dilution
8	Q3756-05	BN038293.D	06 Dec 2025 03:21	RC/JU	Ok
9	Q3756-07	BN038294.D	06 Dec 2025 03:58	RC/JU	Ok,M
10	Q3756-09	BN038295.D	06 Dec 2025 04:35	RC/JU	Ok
11	Q3757-01	BN038296.D	06 Dec 2025 05:11	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121025

Review By	rahul	Review On	12/11/2025 4:30:54 PM
Supervise By	mohammad	Supervise On	12/13/2025 12:56:07 AM
SubDirectory	BN121025	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038297.D	10 Dec 2025 09:12	RC/JU	Ok
2	SSTDIC0.1	BN038298.D	10 Dec 2025 09:52	RC/JU	Ok
3	SSTDIC0.2	BN038299.D	10 Dec 2025 10:28	RC/JU	Ok
4	SSTDIC0.4	BN038300.D	10 Dec 2025 11:05	RC/JU	Ok
5	SSTDIC0.8	BN038301.D	10 Dec 2025 11:41	RC/JU	Ok
6	SSTDIC1.6	BN038302.D	10 Dec 2025 12:17	RC/JU	Ok
7	SSTDIC3.2	BN038303.D	10 Dec 2025 12:53	RC/JU	Ok
8	SSTDIC5.0	BN038304.D	10 Dec 2025 13:30	RC/JU	Ok
9	SSTDICV0.4	BN038305.D	10 Dec 2025 14:06	RC/JU	Ok
10	PB170590BL	BN038306.D	10 Dec 2025 14:42	RC/JU	Ok
11	Q3483-11	BN038307.D	10 Dec 2025 15:18	RC/JU	Dilution
12	Q3483-11DL	BN038308.D	10 Dec 2025 15:54	RC/JU	Ok,M
13	SSTDIC0.4	BN038309.D	10 Dec 2025 17:15	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038310.D	11 Dec 2025 10:33	RC/JU	Ok
2	SSTDCCC0.4	BN038311.D	11 Dec 2025 11:13	RC/JU	Ok
3	PB170850BL	BN038312.D	11 Dec 2025 11:49	RC/JU	Ok
4	Q3757-03	BN038313.D	11 Dec 2025 12:25	RC/JU	Dilution
5	Q3757-05	BN038314.D	11 Dec 2025 13:01	RC/JU	Ok
6	Q3757-07	BN038315.D	11 Dec 2025 13:38	RC/JU	Ok
7	Q3757-09	BN038316.D	11 Dec 2025 14:14	RC/JU	Ok
8	Q3757-11	BN038317.D	11 Dec 2025 14:50	RC/JU	Ok
9	Q3787-07	BN038318.D	11 Dec 2025 15:27	RC/JU	Ok
10	Q3787-09	BN038319.D	11 Dec 2025 16:03	RC/JU	Ok
11	Q3787-11	BN038320.D	11 Dec 2025 16:39	RC/JU	Ok
12	Q3787-13	BN038321.D	11 Dec 2025 17:15	RC/JU	Ok
13	Q3787-15	BN038322.D	11 Dec 2025 17:52	RC/JU	Ok
14	Q3787-17	BN038323.D	11 Dec 2025 18:28	RC/JU	Ok
15	Q3787-19	BN038324.D	11 Dec 2025 19:04	RC/JU	Ok
16	Q3788-07	BN038325.D	11 Dec 2025 19:40	RC/JU	Ok
17	Q3788-11	BN038326.D	11 Dec 2025 20:16	RC/JU	Ok
18	PB170850BS	BN038327.D	11 Dec 2025 20:52	RC/JU	Ok,M
19	SSTDCCC0.4	BN038328.D	11 Dec 2025 21:28	RC/JU	Ok
20	DFTPP	BN038329.D	11 Dec 2025 23:20	RC/JU	Ok
21	SSTDCCC0.4	BN038330.D	11 Dec 2025 23:59	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB170850BL	BN038331.D	12 Dec 2025 00:36	RC/JU	Not Ok
23	Q3756-03DL	BN038332.D	12 Dec 2025 01:13	RC/JU	Ok
24	Q3757-03DL	BN038333.D	12 Dec 2025 01:49	RC/JU	Ok
25	Q3788-01	BN038334.D	12 Dec 2025 02:25	RC/JU	Dilution
26	Q3788-02MS	BN038335.D	12 Dec 2025 03:01	RC/JU	Ok,M
27	Q3788-03MSD	BN038336.D	12 Dec 2025 03:37	RC/JU	Ok,M
28	Q3787-01	BN038337.D	12 Dec 2025 04:13	RC/JU	Ok
29	Q3787-02MS	BN038338.D	12 Dec 2025 04:49	RC/JU	Ok,M
30	Q3787-03MSD	BN038339.D	12 Dec 2025 05:25	RC/JU	Ok,M
31	Q3788-09	BN038340.D	12 Dec 2025 06:02	RC/JU	Ok
32	SSTDCCC0.4	BN038341.D	12 Dec 2025 06:38	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038211.D	26 Nov 2025 19:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038212.D	26 Nov 2025 20:35		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN038213.D	26 Nov 2025 21:12		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038214.D	26 Nov 2025 21:48	Compound #20 kept on QR.	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038215.D	26 Nov 2025 22:25		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN038216.D	26 Nov 2025 23:01		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038217.D	26 Nov 2025 23:37		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038218.D	27 Nov 2025 00:13	Compound #14,24 removed from 5.0 level	RC/JU	Ok
9	SSTDICV0.4	ICVBN112725	BN038219.D	27 Nov 2025 00:49	ICV failed for compound #05,20,24	RC/JU	Ok
10	PB170483BL	PB170483BL	BN038220.D	27 Nov 2025 02:01		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN120625

Review By	Jagrut	Review On	12/8/2025 3:30:30 PM
Supervise By	mohammad	Supervise On	12/9/2025 12:44:58 AM
SubDirectory	BN120625	HP Acquire Method	BNA_N, 8270_HP Processing Method BN112725
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904		
CCC	SP6902		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6906		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038286.D	05 Dec 2025 22:23		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038287.D	05 Dec 2025 23:42		RC/JU	Ok
3	PB170838BL	PB170838BL	BN038288.D	06 Dec 2025 00:19		RC/JU	Ok
4	PB170838BS	PB170838BS	BN038289.D	06 Dec 2025 00:55		RC/JU	Ok,M
5	PB170838BSD	PB170838BSD	BN038290.D	06 Dec 2025 01:32		RC/JU	Ok,M
6	Q3756-01	OW-04B-26.5-120225	BN038291.D	06 Dec 2025 02:08		RC/JU	Ok
7	Q3756-03	BR-01-190-120225	BN038292.D	06 Dec 2025 02:45	Need 2X Dilution	RC/JU	Dilution
8	Q3756-05	MW-04-12-120225	BN038293.D	06 Dec 2025 03:21		RC/JU	Ok
9	Q3756-07	MW-13B-47.5-120225	BN038294.D	06 Dec 2025 03:58		RC/JU	Ok,M
10	Q3756-09	EB01-120225	BN038295.D	06 Dec 2025 04:35		RC/JU	Ok
11	Q3757-01	MW-14A-17.5-120325	BN038296.D	06 Dec 2025 05:11		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121025

Review By	rahul	Review On	12/11/2025 4:30:54 PM
Supervise By	mohammad	Supervise On	12/13/2025 12:56:07 AM
SubDirectory	BN121025	HP Acquire Method	BNA_N, 8270_HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038297.D	10 Dec 2025 09:12		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038298.D	10 Dec 2025 09:52		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN038299.D	10 Dec 2025 10:28		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038300.D	10 Dec 2025 11:05		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038301.D	10 Dec 2025 11:41		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN038302.D	10 Dec 2025 12:17		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038303.D	10 Dec 2025 12:53		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038304.D	10 Dec 2025 13:30	Comp# 20 (4,6-Dinitro-2-methylphenol) removed from 5.0 ng level	RC/JU	Ok
9	SSTDICV0.4	ICVBN121025	BN038305.D	10 Dec 2025 14:06		RC/JU	Ok
10	PB170590BL	PB170590BL	BN038306.D	10 Dec 2025 14:42		RC/JU	Ok
11	Q3483-11	HW1025-PT-BNA-SOIL	BN038307.D	10 Dec 2025 15:18	Need 100X Dilution	RC/JU	Dilution
12	Q3483-11DL	HW1025-PT-BNA-SOIL	BN038308.D	10 Dec 2025 15:54		RC/JU	Ok,M
13	SSTDCCC0.4	SSTDCCC0.4EC	BN038309.D	10 Dec 2025 17:15		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038310.D	11 Dec 2025 10:33		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038311.D	11 Dec 2025 11:13		RC/JU	Ok
3	PB170850BL	PB170850BL	BN038312.D	11 Dec 2025 11:49		RC/JU	Ok
4	Q3757-03	BR-03D-490-120325	BN038313.D	11 Dec 2025 12:25	Need 10X Dilution	RC/JU	Dilution
5	Q3757-05	MW-14B-46-120325	BN038314.D	11 Dec 2025 13:01		RC/JU	Ok
6	Q3757-07	RMW-05B-90.5-120325	BN038315.D	11 Dec 2025 13:38		RC/JU	Ok
7	Q3757-09	OW-05B-72-120325	BN038316.D	11 Dec 2025 14:14		RC/JU	Ok
8	Q3757-11	EB01-120325	BN038317.D	11 Dec 2025 14:50		RC/JU	Ok
9	Q3787-07	OWBR-02-170-120425	BN038318.D	11 Dec 2025 15:27		RC/JU	Ok
10	Q3787-09	OWBR-02-170-120425	BN038319.D	11 Dec 2025 16:03		RC/JU	Ok
11	Q3787-11	OW-03B-51.5-120425	BN038320.D	11 Dec 2025 16:39		RC/JU	Ok
12	Q3787-13	OW-03B-51.5-120425	BN038321.D	11 Dec 2025 17:15		RC/JU	Ok
13	Q3787-15	OW-08B-72.5-120425	BN038322.D	11 Dec 2025 17:52		RC/JU	Ok
14	Q3787-17	OW-08B-72.5-120425	BN038323.D	11 Dec 2025 18:28		RC/JU	Ok
15	Q3787-19	OW-02B-21.2-120425	BN038324.D	11 Dec 2025 19:04		RC/JU	Ok
16	Q3788-07	OW-01B-66.5-120525	BN038325.D	11 Dec 2025 19:40		RC/JU	Ok
17	Q3788-11	MW-16B-87.5-120525	BN038326.D	11 Dec 2025 20:16		RC/JU	Ok
18	PB170850BS	PB170850BS	BN038327.D	11 Dec 2025 20:52		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_HP Processing Method BN121025
STD. NAME	STD REF.#		
Tune/Reschk	SP6875		
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940		
CCC	SP6945		
Internal Standard/PEM	SP6907,10ul/1000ul sample		
ICV/I.BLK	SP6949		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	SSTDCCC0.4	SSTDCCC0.4EC	BN038328.D	11 Dec 2025 21:28		RC/JU	Ok
20	DFTPP	DFTPP	BN038329.D	11 Dec 2025 23:20		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN038330.D	11 Dec 2025 23:59		RC/JU	Ok
22	PB170850BL	PB170850BL	BN038331.D	12 Dec 2025 00:36	Analyzed for contamination check	RC/JU	Not Ok
23	Q3756-03DL	BR-01-190-120225DL	BN038332.D	12 Dec 2025 01:13		RC/JU	Ok
24	Q3757-03DL	BR-03D-490-120325DL	BN038333.D	12 Dec 2025 01:49		RC/JU	Ok
25	Q3788-01	OWBR-05-135-120525	BN038334.D	12 Dec 2025 02:25	Need 10X	RC/JU	Dilution
26	Q3788-02MS	OWBR-05-135-120525	BN038335.D	12 Dec 2025 03:01		RC/JU	Ok,M
27	Q3788-03MSD	OWBR-05-135-120525	BN038336.D	12 Dec 2025 03:37		RC/JU	Ok,M
28	Q3787-01	MW-15B-42.5-120425	BN038337.D	12 Dec 2025 04:13		RC/JU	Ok
29	Q3787-02MS	MW-15B-42.5-120425M	BN038338.D	12 Dec 2025 04:49		RC/JU	Ok,M
30	Q3787-03MSD	MW-15B-42.5-120425M	BN038339.D	12 Dec 2025 05:25		RC/JU	Ok,M
31	Q3788-09	TA-BR-05-465-120525	BN038340.D	12 Dec 2025 06:02		RC/JU	Ok
32	SSTDCCC0.4	SSTDCCC0.4EC	BN038341.D	12 Dec 2025 06:38		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 12/05/2025

Matrix : Water **Extraction Start Time :** 08:45

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 12/05/2025

Balance check: N/A **Filter By:** RS **Extraction End Time :** 13:45

Balance ID: N/A **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: E3953 **Hood ID:** 4,5,6,7 **Supervisor By :** RUPESH

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

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6938
Surrogate	1.0ML	0.4 PPM	SP6893
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3986
Baked Na2SO4	N/A	EP2663
H2SO4 1:1	N/A	EP2657
10N NaoH	N/A	EP2658
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

pH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/5/25	RS (Ext-Lab)	J4/SVOC
13:50	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 12/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170838BL	SBLK838	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			SEP-1
PB170838BS	SLCS838	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			2
PB170838BS D	SLCSD838	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			3
Q3756-01	OW-04B-26.5-120225	SVOC-SIMGrou p1	960	6	RUPEsh	ritesh	1	E		4
Q3756-03	BR-01-190-120225	SVOC-SIMGrou p1	970	6	RUPEsh	ritesh	1	E		5
Q3756-05	MW-04-12-120225	SVOC-SIMGrou p1	900	6	RUPEsh	ritesh	1	E		6
Q3756-07	MW-13B-47.5-120225	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	E		7
Q3756-09	EB01-120225	SVOC-SIMGrou p1	950	6	RUPEsh	ritesh	1	E		8
Q3757-01	MW-14A-17.5-120325	SVOC-SIMGrou p1	890	6	RUPEsh	ritesh	1	E		9
Q3757-03	BR-03D-490-120325	SVOC-SIMGrou p1	910	6	RUPEsh	ritesh	1	E		10
Q3757-05	MW-14B-46-120325	SVOC-SIMGrou p1	920	6	RUPEsh	ritesh	1	E		11
Q3757-07	RMW-05B-90.5-120325	SVOC-SIMGrou p1	970	6	RUPEsh	ritesh	1	E		12
Q3757-09	OW-05B-72-120325	SVOC-SIMGrou p1	950	6	RUPEsh	ritesh	1	E		13
Q3757-11	EB01-120325	SVOC-SIMGrou p1	870	6	RUPEsh	ritesh	1	E		14

RS
12/5

8580E1
5m:8

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3756 WorkList ID : 193498 Department : Extraction Date : 12-05-2025 08:40:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3756-01	OW-04B-26.5-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-03	BR-01-190-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-05	MW-04-12-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-07	MW-13B-47.5-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-09	EB01-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3757-01	MW-14A-17.5-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-03	BR-03D-490-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-05	MW-14B-46-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-07	RMW-05B-90.5-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-09	OW-05B-72-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-11	EB01-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified

Date/Time 12/5/25 8:40
Raw Sample Received by: RSC Ext (ab)
Raw Sample Relinquished by: [Signature]

Date/Time 12/5/25 9:20
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RS Ext (ab)

LAB CHRONICLE

OrderID:	Q3756	OrderDate:	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	--Select--,A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	OW-04B-26.5-120225	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/06/25	12/02/25
Q3756-03	BR-01-190-120225	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/06/25	12/02/25
Q3756-03DL	BR-01-190-120225DL	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/12/25	12/02/25
Q3756-05	MW-04-12-120225	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/06/25	12/02/25
Q3756-07	MW-13B-47.5-120225	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/06/25	12/02/25
Q3756-09	EB01-120225	Water	SVOC-SIMGroup1	8270-Modified	12/02/25	12/05/25	12/06/25	12/02/25