

Hit Summary Sheet
SW-846

SDG No.: Q3813
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	BR-04DR-451-120825							
Q3813-01	BR-04DR-451-1208	Water	1,1-Dichloroethene	8.30		0.23	1.00	ug/L
Q3813-01	BR-04DR-451-1208	Water	cis-1,2-Dichloroethene	6.60		0.19	1.00	ug/L
Q3813-01	BR-04DR-451-1208	Water	1,2-Dichloroethane	1.00		0.22	1.00	ug/L
Q3813-01	BR-04DR-451-1208	Water	Trichloroethene	7.30		0.090	1.00	ug/L
			Total Voc :		23.2			
			Total Concentration:		23.2			



SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: BR-04DR-451-120825
 Lab Sample ID: Q3813-01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 12:23	VN121025
75-35-4	1,1-Dichloroethene	8.30		1	0.23	1.00	ug/L	12/10/25 12:23	VN121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 12:23	VN121025
156-59-2	cis-1,2-Dichloroethene	6.60		1	0.19	1.00	ug/L	12/10/25 12:23	VN121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 12:23	VN121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 12:23	VN121025
107-06-2	1,2-Dichloroethane	1.00		1	0.22	1.00	ug/L	12/10/25 12:23	VN121025
79-01-6	Trichloroethene	7.30		1	0.090	1.00	ug/L	12/10/25 12:23	VN121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 12:23	VN121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 12:23	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	56.7			70 (74) - 130 (125)	113%	SPK: 50		
1868-53-7	Dibromofluoromethane	47.0			70 (75) - 130 (124)	94%	SPK: 50		
2037-26-5	Toluene-d8	44.9			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	46.3			70 (77) - 130 (121)	93%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	212000							
540-36-3	1,4-Difluorobenzene	494000							
3114-55-4	Chlorobenzene-d5	485000							
3855-82-1	1,4-Dichlorobenzene-d4	222000							

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: EB01-120825
Lab Sample ID: Q3813-03
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected: 12/08/25
Date Received: 12/08/25
SDG No.: Q3813
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	12/10/25 12:44	VN121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 12:44	VN121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 12:44	VN121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 12:44	VN121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 12:44	VN121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 12:44	VN121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 12:44	VN121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 12:44	VN121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 12:44	VN121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 12:44	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	58.2			70 (74) - 130 (125)	116%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.4			70 (75) - 130 (124)	99%	SPK: 50		
2037-26-5	Toluene-d8	46.5			70 (86) - 130 (113)	93%	SPK: 50		
460-00-4	4-Bromofluorobenzene	50.5			70 (77) - 130 (121)	101%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	207000							
540-36-3	1,4-Difluorobenzene	479000							
3114-55-4	Chlorobenzene-d5	474000							
3855-82-1	1,4-Dichlorobenzene-d4	215000							

U = Not Detected

LOQ = Limit of Quantitation

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E = Value Exceeds Calibration Range

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J = Estimated Value

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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.
 Project: Former Schlumberger STC PTC Site D3868221
 Client Sample ID: TB01-120825
 Lab Sample ID: Q3813-04
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 13:04	VN121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:04	VN121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:04	VN121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 13:04	VN121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 13:04	VN121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 13:04	VN121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 13:04	VN121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 13:04	VN121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 13:04	VN121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 13:04	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.9			70 (74) - 130 (125)	122%	SPK: 50		
1868-53-7	Dibromofluoromethane	49.0			70 (75) - 130 (124)	98%	SPK: 50		
2037-26-5	Toluene-d8	45.1			70 (86) - 130 (113)	90%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.7			70 (77) - 130 (121)	97%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	226000							
540-36-3	1,4-Difluorobenzene	532000							
3114-55-4	Chlorobenzene-d5	534000							
3855-82-1	1,4-Dichlorobenzene-d4	253000							

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

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() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q3813**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3813-01	BR-04DR-451-120825	1,2-Dichloroethane-d4	50	56.7	113		70 (74)	130 (125)
		Dibromofluoromethane	50	47.0	94		70 (75)	130 (124)
		Toluene-d8	50	44.9	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	46.3	93		70 (77)	130 (121)
Q3813-03	EB01-120825	1,2-Dichloroethane-d4	50	58.2	116		70 (74)	130 (125)
		Dibromofluoromethane	50	49.4	99		70 (75)	130 (124)
		Toluene-d8	50	46.5	93		70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.5	101		70 (77)	130 (121)
Q3813-04	TB01-120825	1,2-Dichloroethane-d4	50	60.9	122		70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98		70 (75)	130 (124)
		Toluene-d8	50	45.1	90		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97		70 (77)	130 (121)
VN1210WBL01	VN1210WBL01	1,2-Dichloroethane-d4	50	57.8	116		70 (74)	130 (125)
		Dibromofluoromethane	50	50.8	102		70 (75)	130 (124)
		Toluene-d8	50	47.0	94		70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.0	96		70 (77)	130 (121)
VN1210WBS01	VN1210WBS01	1,2-Dichloroethane-d4	50	57.3	115		70 (74)	130 (125)
		Dibromofluoromethane	50	55.6	111		70 (75)	130 (124)
		Toluene-d8	50	53.9	108		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.1	110		70 (77)	130 (121)
VN1210WBSD01	VN1210WBSD01	1,2-Dichloroethane-d4	50	60.8	122		70 (74)	130 (125)
		Dibromofluoromethane	50	55.3	111		70 (75)	130 (124)
		Toluene-d8	50	52.5	105		70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.1	108		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3813</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088491.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1210WBS01	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.6	ug/L	93			70 (74)	130 (110)	
	1,1-Dichloroethane	20	20.5	ug/L	103			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.4	ug/L	97			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Benzene	20	20.0	ug/L	100			70 (82)	130 (109)	
	1,2-Dichloroethane	20	22.5	ug/L	113			70 (80)	130 (115)	
	Trichloroethene	20	18.4	ug/L	92			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.3	ug/L	106			70 (83)	130 (112)	
	Tetrachloroethene	20	17.4	ug/L	87			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3813</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VN088496.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN1210WBSD01	Vinyl chloride	20	18.1	ug/L	91	4		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	19.2	ug/L	96	3		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	20.7	ug/L	104	1		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	20.0	ug/L	100	3		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	20.3	ug/L	102	1		70 (80)	130 (108)	20 (20)
	Benzene	20	19.0	ug/L	95	5		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	21.3	ug/L	106	6		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.3	ug/L	86	7		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	20.8	ug/L	104	2		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	14.3	ug/L	72	19		70 (67)	130 (123)	20 (15)

VOLATILE METHOD BLANK SUMMARY

Client ID

VN1210WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3813

Lab File ID: VN088489.D

Lab Sample ID: VN1210WBL01

Date Analyzed: 12/10/2025

Time Analyzed: 10:57

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
VN1210WBS01	VN1210WBS01	VN088491.D	12/10/2025
BR-04DR-451-120825	Q3813-01	VN088492.D	12/10/2025
EB01-120825	Q3813-03	VN088493.D	12/10/2025
TB01-120825	Q3813-04	VN088494.D	12/10/2025
VN1210WBSD01	VN1210WBSD01	VN088496.D	12/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VN088343.D
Instrument ID: MSVOA_N
GC Column: RXI-624 ID: 0.25 (mm)

Contract: JACO05
SDG NO.: Q3813
BFB Injection Date: 11/24/2025
BFB Injection Time: 08:17
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: JACO05

Lab Code: ACE

SDG NO.: Q3813

Lab File ID: VN088486.D

BFB Injection Date: 12/10/2025

Instrument ID: MSVOA_N

BFB Injection Time: 09:29

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	22.6
75	30.0 - 60.0% of mass 95	53.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.3 (1.9) 1
174	50.0 - 100.0% of mass 95	67.7
175	5.0 - 9.0% of mass 174	4.7 (7) 1
176	95.0 - 101.0% of mass 174	65 (95.9) 1
177	5.0 - 9.0% of mass 176	4.3 (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
VSTDCCC050	VSTDCCC050	VN088487.D	12/10/2025	10:01
VN1210WBL01	VN1210WBL01	VN088489.D	12/10/2025	10:57
VN1210WBS01	VN1210WBS01	VN088491.D	12/10/2025	12:03
BR-04DR-451-120825	Q3813-01	VN088492.D	12/10/2025	12:23
EB01-120825	Q3813-03	VN088493.D	12/10/2025	12:44
TB01-120825	Q3813-04	VN088494.D	12/10/2025	13:04
VN1210WBSD01	VN1210WBSD01	VN088496.D	12/10/2025	13:45

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q3813
 Lab File ID: VN088487.D Date Analyzed: 12/10/2025
 Instrument ID: MSVOA_N Time Analyzed: 10:01
 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	249947	8.21	468726	9.08	435160	11.84
UPPER LIMIT	499894	8.706	937452	9.583	870320	12.341
LOWER LIMIT	124974	7.706	234363	8.583	217580	11.341
EPA SAMPLE NO.						
BR-04DR-451-120825	212180	8.21	494367	9.08	485409	11.84
EB01-120825	207235	8.21	478662	9.08	473650	11.84
TB01-120825	225847	8.21	531810	9.08	534272	11.84
VN1210WBL01	199142	8.20	459524	9.08	467279	11.84
VN1210WBS01	279896	8.21	512638	9.08	464243	11.84
VN1210WBSD01	226609	8.21	440776	9.08	408174	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>Q3813</u>
Lab File ID:	<u>VN088487.D</u>	Date Analyzed:	<u>12/10/2025</u>
Instrument ID:	<u>MSVOA_N</u>	Time Analyzed:	<u>10:01</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	215555	13.77				
UPPER LIMIT	431110	14.27				
LOWER LIMIT	107778	13.27				
EPA SAMPLE NO.						
BR-04DR-451-120825	222072	13.77				
EB01-120825	215051	13.77				
TB01-120825	252826	13.77				
VN1210WBL01	211178	13.77				
VN1210WBS01	225326	13.77				
VN1210WBSD01	199717	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: VN1210WBL01
 Lab Sample ID: VN1210WBL01
 Analytical Method: 8260D
 Sample Wt/Vol: 5 mL

Level: LOW
 Final Vol: 5000 uL

Date Collected:
 Date Received:
 SDG No.: Q3813
 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	12/10/25 10:57	VN121025
75-35-4	1,1-Dichloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:57	VN121025
75-34-3	1,1-Dichloroethane	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:57	VN121025
156-59-2	cis-1,2-Dichloroethene	0.19	U	1	0.19	1.00	ug/L	12/10/25 10:57	VN121025
71-55-6	1,1,1-Trichloroethane	0.20	U	1	0.20	1.00	ug/L	12/10/25 10:57	VN121025
71-43-2	Benzene	0.15	U	1	0.15	1.00	ug/L	12/10/25 10:57	VN121025
107-06-2	1,2-Dichloroethane	0.22	U	1	0.22	1.00	ug/L	12/10/25 10:57	VN121025
79-01-6	Trichloroethene	0.090	U	1	0.090	1.00	ug/L	12/10/25 10:57	VN121025
79-00-5	1,1,2-Trichloroethane	0.21	U	1	0.21	1.00	ug/L	12/10/25 10:57	VN121025
127-18-4	Tetrachloroethene	0.23	U	1	0.23	1.00	ug/L	12/10/25 10:57	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.8			70 (74) - 130 (125)	116%	SPK: 50		
1868-53-7	Dibromofluoromethane	50.8			70 (75) - 130 (124)	102%	SPK: 50		
2037-26-5	Toluene-d8	47.0			70 (86) - 130 (113)	94%	SPK: 50		
460-00-4	4-Bromofluorobenzene	48.0			70 (77) - 130 (121)	96%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	199000							
540-36-3	1,4-Difluorobenzene	460000							
3114-55-4	Chlorobenzene-d5	467000							
3855-82-1	1,4-Dichlorobenzene-d4	211000							

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: VN1210WBS01
Lab Sample ID: VN1210WBS01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3813
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	18.9		1	0.26	1.00	ug/L	12/10/25 12:03	VN121025
75-35-4	1,1-Dichloroethene	18.6		1	0.23	1.00	ug/L	12/10/25 12:03	VN121025
75-34-3	1,1-Dichloroethane	20.5		1	0.23	1.00	ug/L	12/10/25 12:03	VN121025
156-59-2	cis-1,2-Dichloroethene	19.4		1	0.19	1.00	ug/L	12/10/25 12:03	VN121025
71-55-6	1,1,1-Trichloroethane	20.6		1	0.20	1.00	ug/L	12/10/25 12:03	VN121025
71-43-2	Benzene	20.0		1	0.15	1.00	ug/L	12/10/25 12:03	VN121025
107-06-2	1,2-Dichloroethane	22.5		1	0.22	1.00	ug/L	12/10/25 12:03	VN121025
79-01-6	Trichloroethene	18.4		1	0.090	1.00	ug/L	12/10/25 12:03	VN121025
79-00-5	1,1,2-Trichloroethane	21.3		1	0.21	1.00	ug/L	12/10/25 12:03	VN121025
127-18-4	Tetrachloroethene	17.4		1	0.23	1.00	ug/L	12/10/25 12:03	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	57.3			70 (74) - 130 (125)	115%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.6			70 (75) - 130 (124)	111%	SPK: 50		
2037-26-5	Toluene-d8	53.9			70 (86) - 130 (113)	108%	SPK: 50		
460-00-4	4-Bromofluorobenzene	55.1			70 (77) - 130 (121)	110%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	280000							
540-36-3	1,4-Difluorobenzene	513000							
3114-55-4	Chlorobenzene-d5	464000							
3855-82-1	1,4-Dichlorobenzene-d4	225000							

U = Not Detected

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Report of Analysis

Client: JACOBS Engineering Group, Inc.
Project: Former Schlumberger STC PTC Site D3868221
Client Sample ID: VN1210WBSD01
Lab Sample ID: VN1210WBSD01
Analytical Method: 8260D
Sample Wt/Vol: 5 mL

Level: LOW
Final Vol: 5000 uL

Date Collected:
Date Received:
SDG No.: Q3813
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	18.1		1	0.26	1.00	ug/L	12/10/25 13:45	VN121025
75-35-4	1,1-Dichloroethene	19.2		1	0.23	1.00	ug/L	12/10/25 13:45	VN121025
75-34-3	1,1-Dichloroethane	20.7		1	0.23	1.00	ug/L	12/10/25 13:45	VN121025
156-59-2	cis-1,2-Dichloroethene	20.0		1	0.19	1.00	ug/L	12/10/25 13:45	VN121025
71-55-6	1,1,1-Trichloroethane	20.3		1	0.20	1.00	ug/L	12/10/25 13:45	VN121025
71-43-2	Benzene	19.0		1	0.15	1.00	ug/L	12/10/25 13:45	VN121025
107-06-2	1,2-Dichloroethane	21.3		1	0.22	1.00	ug/L	12/10/25 13:45	VN121025
79-01-6	Trichloroethene	17.3		1	0.090	1.00	ug/L	12/10/25 13:45	VN121025
79-00-5	1,1,2-Trichloroethane	20.8		1	0.21	1.00	ug/L	12/10/25 13:45	VN121025
127-18-4	Tetrachloroethene	14.3		1	0.23	1.00	ug/L	12/10/25 13:45	VN121025
SURROGATES									
17060-07-0	1,2-Dichloroethane-d4	60.8			70 (74) - 130 (125)	122%	SPK: 50		
1868-53-7	Dibromofluoromethane	55.3			70 (75) - 130 (124)	111%	SPK: 50		
2037-26-5	Toluene-d8	52.5			70 (86) - 130 (113)	105%	SPK: 50		
460-00-4	4-Bromofluorobenzene	54.1			70 (77) - 130 (121)	108%	SPK: 50		
INTERNAL STANDARDS									
		Area Count							
363-72-4	Pentafluorobenzene	227000							
540-36-3	1,4-Difluorobenzene	441000							
3114-55-4	Chlorobenzene-d5	408000							
3855-82-1	1,4-Dichlorobenzene-d4	200000							

U = Not Detected

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CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3813</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>Q3813</u>
Instrument ID:	<u>MSVOA_N</u>	Calibration Date/Time:	<u>12/10/2025</u> <u>10:01</u>
Lab File ID:	<u>VN088487.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	0.760		-7.43	20
1,1-Dichloroethene	0.610	0.595		-2.46	20
1,1-Dichloroethane	1.367	1.557	0.1	13.9	20
cis-1,2-Dichloroethene	0.785	0.887		12.99	20
1,1,1-Trichloroethane	1.181	1.263		6.94	20
Benzene	1.570	1.702		8.41	20
1,2-Dichloroethane	0.599	0.732		22.2	20
Trichloroethene	0.371	0.360		-2.96	20
1,1,2-Trichloroethane	0.351	0.415		18.23	20
Tetrachloroethene	0.396	0.324		-18.18	20
1,2-Dichloroethane-d4	0.942	1.212		28.66	20
Dibromofluoromethane	0.346	0.417		20.52	20
Toluene-d8	1.289	1.476		14.51	20
4-Bromofluorobenzene	0.442	0.539		21.95	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\VN121025\
 Data File : VN088492.D
 Acq On : 10 Dec 2025 12:23
 Operator : JC\MD
 Sample : Q3813-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-04DR-451-120825

Quant Time: Dec 11 02:05:49 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)

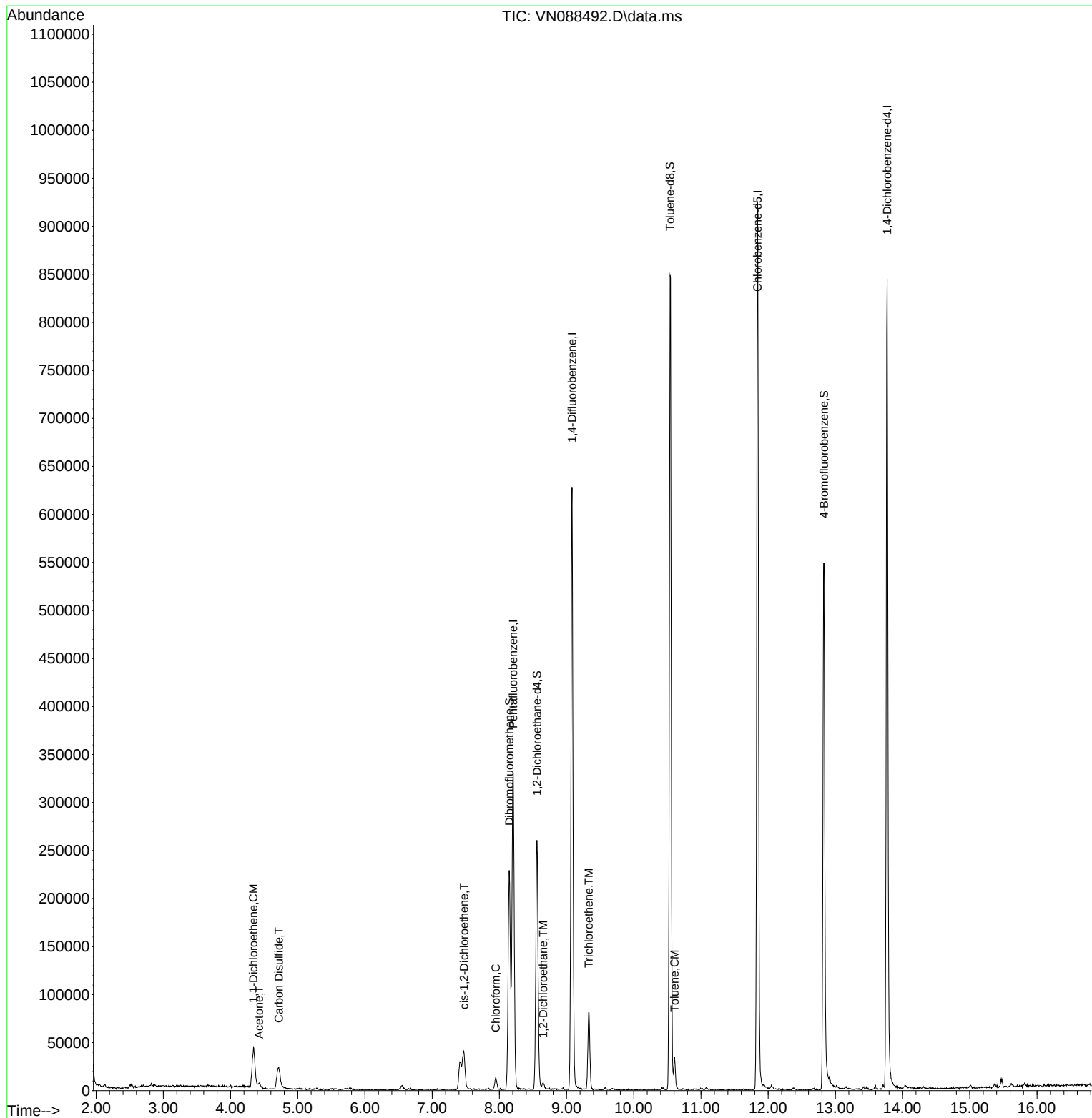
Internal Standards						
1) Pentafluorobenzene	8.206	168	212180	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	494367	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	485409	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	222072	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	226563	56.683	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	113.360%	
35) Dibromofluoromethane	8.147	113	160883	46.960	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	93.920%	
50) Toluene-d8	10.541	98	572596	44.919	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	89.840%	
62) 4-Bromofluorobenzene	12.829	95	202603	46.322	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	92.640%	
Target Compounds						Qvalue
12) 1,1-Dichloroethene	4.342	96	21494	8.303	ug/l	92
16) Acetone	4.424	43	9616	6.652	ug/l	98
17) Carbon Disulfide	4.718	76	16408	1.940	ug/l #	89
27) cis-1,2-Dichloroethene	7.477	96	21872	6.563	ug/l	92
30) Chloroform	7.947	83	11629	2.040	ug/l #	81
42) 1,2-Dichloroethane	8.653	62	6039	1.020	ug/l	99
44) Trichloroethene	9.329	130	26716	7.286	ug/l	96
52) Toluene	10.606	92	12084	1.349	ug/l	98

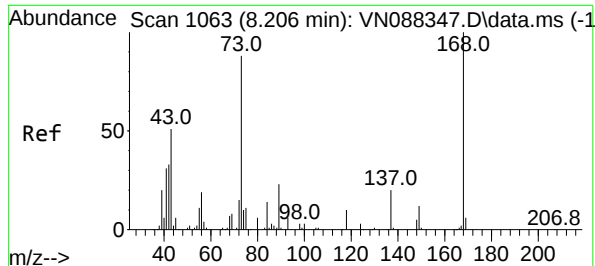
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088492.D
Acq On : 10 Dec 2025 12:23
Operator : JC\MD
Sample : Q3813-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BR-04DR-451-120825

Quant Time: Dec 11 02:05:49 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

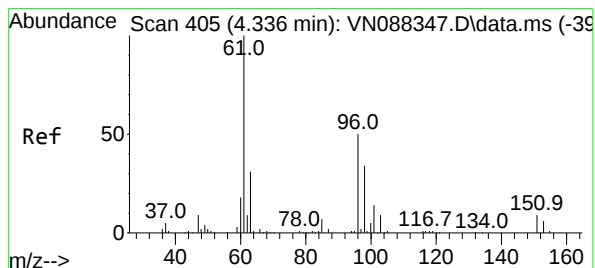
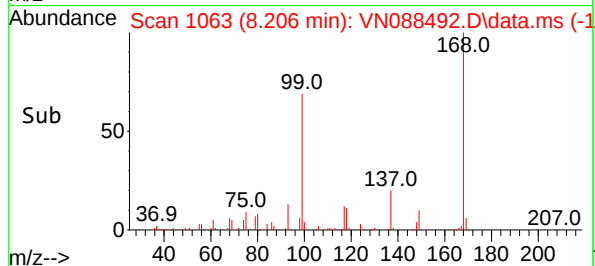
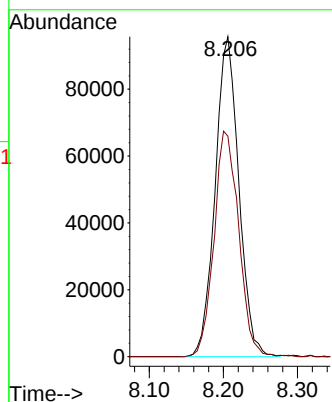
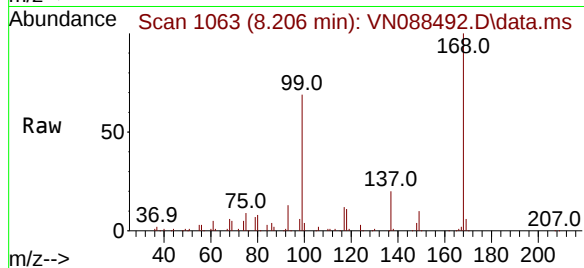




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

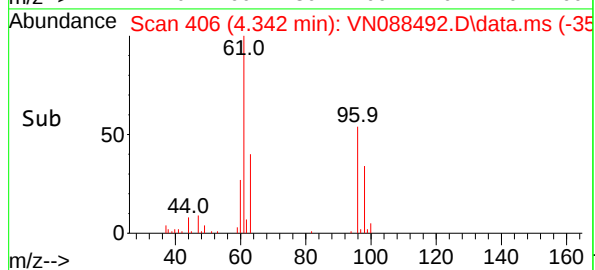
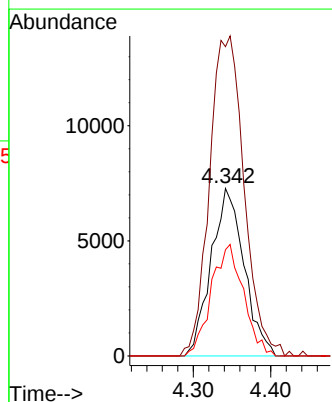
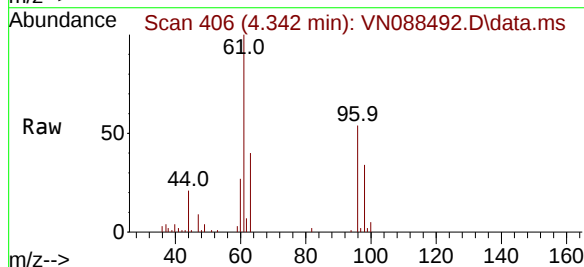
Instrument :
MSVOA_N
ClientSampleId :
BR-04DR-451-120825

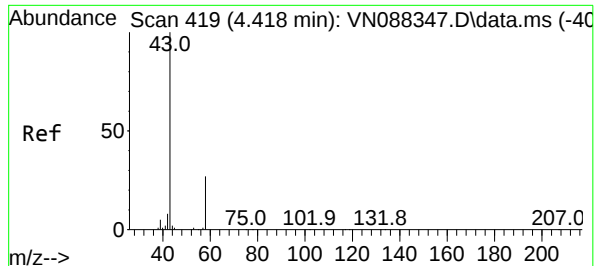
Tgt Ion:168 Resp: 212180
Ion Ratio Lower Upper
168 100
99 68.9 57.1 85.7



#12
1,1-Dichloroethene
Concen: 8.303 ug/l
RT: 4.342 min Scan# 406
Delta R.T. 0.006 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

Tgt Ion: 96 Resp: 21494
Ion Ratio Lower Upper
96 100
61 184.5 159.1 238.7
98 63.4 53.7 80.5





#16

Acetone

Concen: 6.652 ug/l

RT: 4.424 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN088492.D

Acq: 10 Dec 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

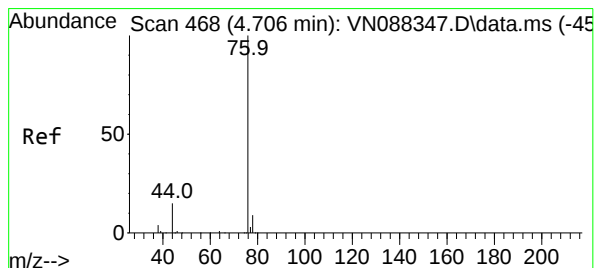
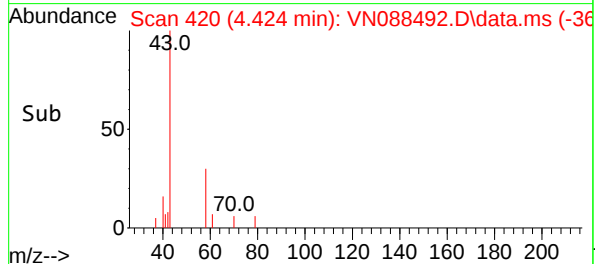
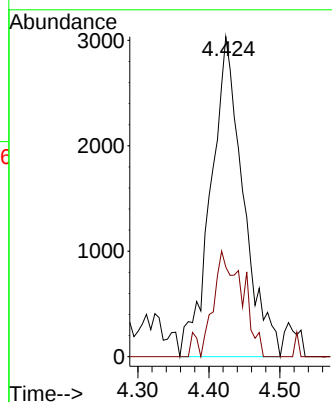
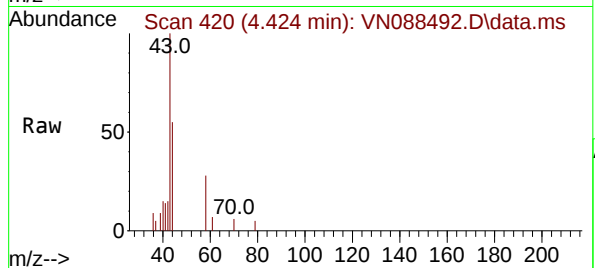
BR-04DR-451-120825

Tgt Ion: 43 Resp: 9616

Ion Ratio Lower Upper

43 100

58 28.0 21.7 32.5



#17

Carbon Disulfide

Concen: 1.940 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.012 min

Lab File: VN088492.D

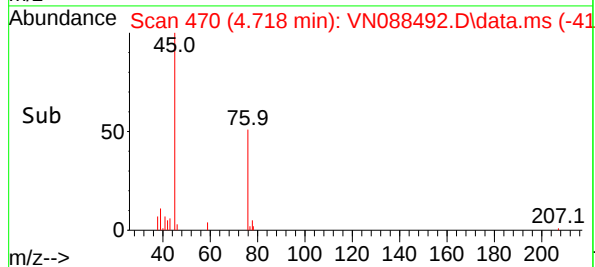
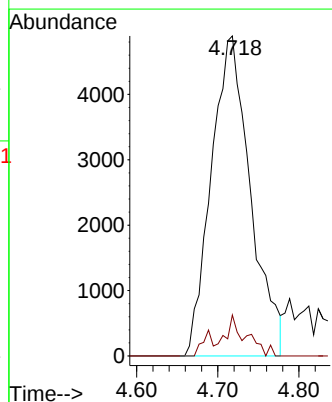
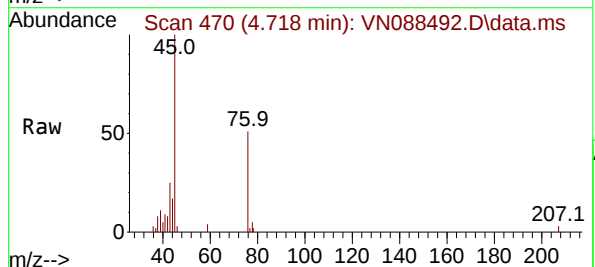
Acq: 10 Dec 2025 12:23

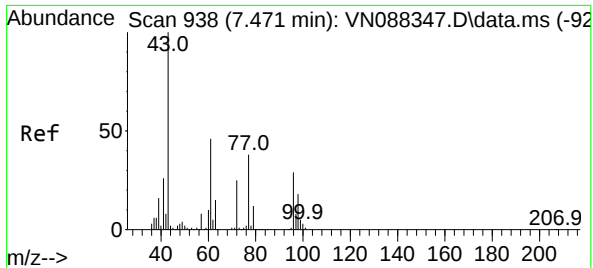
Tgt Ion: 76 Resp: 16408

Ion Ratio Lower Upper

76 100

78 12.8 7.0 10.4#

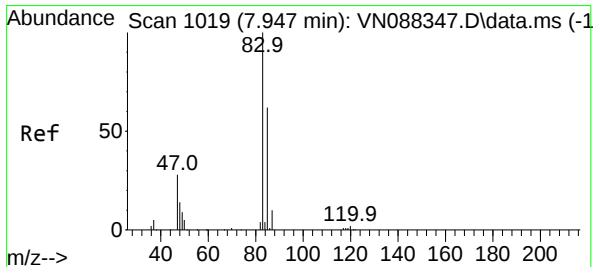
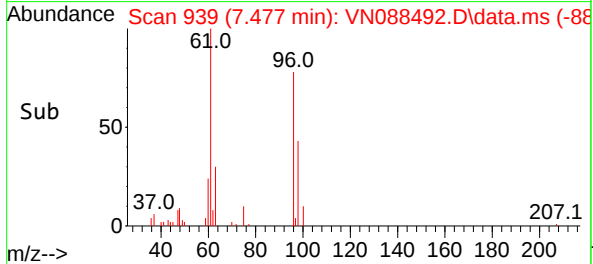
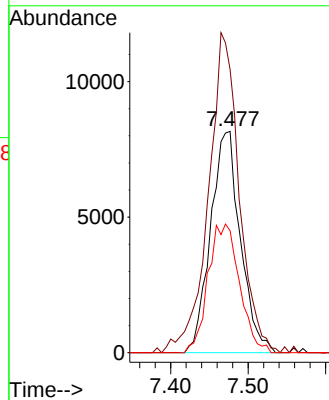
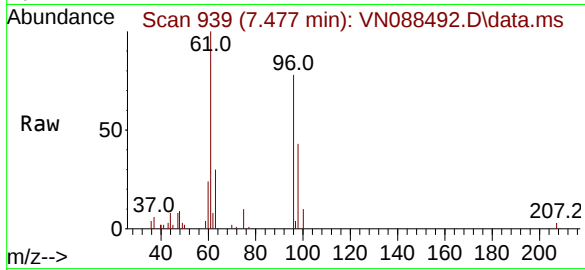




#27
cis-1,2-Dichloroethene
Concen: 6.563 ug/l
RT: 7.477 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

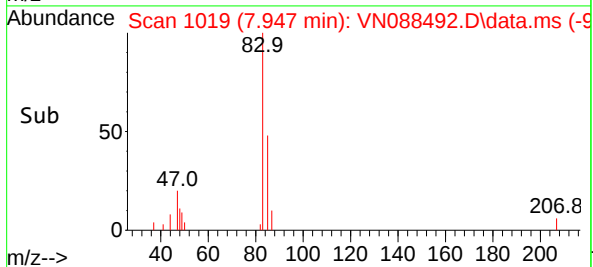
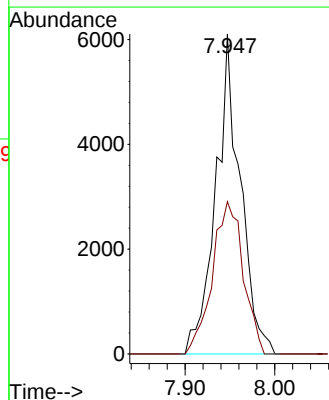
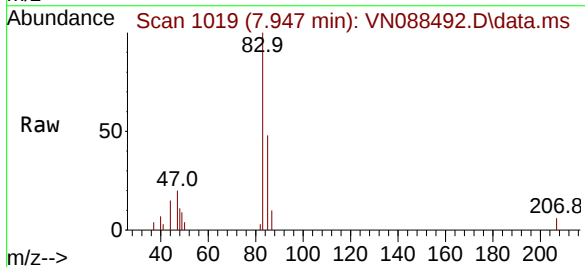
Instrument :
MSVOA_N
ClientSampleId :
BR-04DR-451-120825

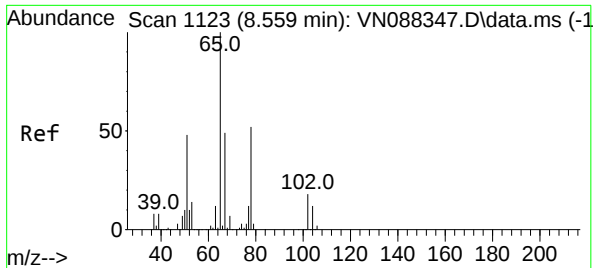
Tgt Ion:	96	Resp:	21872
Ion	Ratio	Lower	Upper
96	100		
61	148.9	0.0	323.6
98	61.1	0.0	127.2



#30
Chloroform
Concen: 2.040 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. 0.000 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

Tgt Ion:	83	Resp:	11629
Ion	Ratio	Lower	Upper
83	100		
85	47.6	49.8	74.8#





#33

1,2-Dichloroethane-d4

Concen: 56.683 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088492.D

Acq: 10 Dec 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

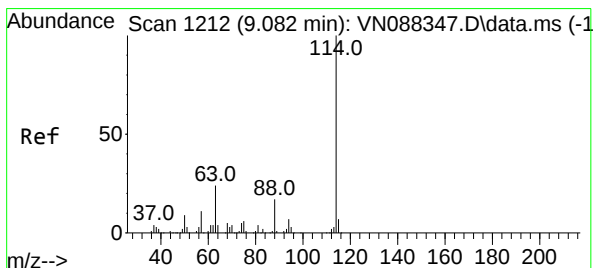
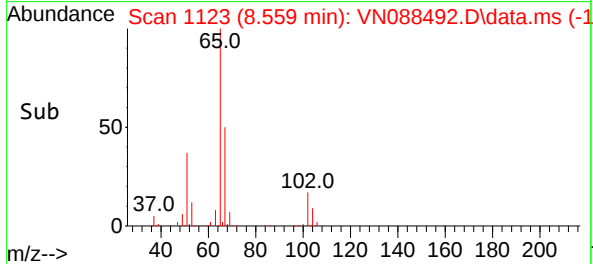
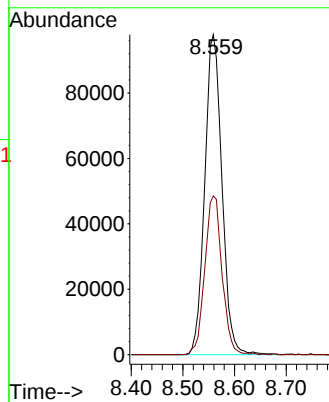
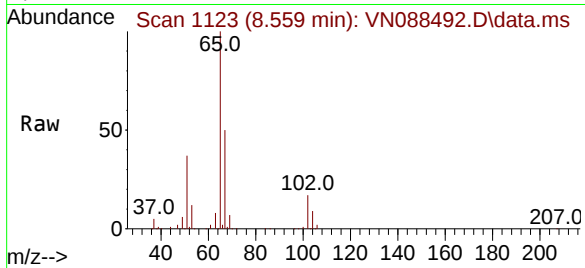
BR-04DR-451-120825

Tgt Ion: 65 Resp: 226563

Ion Ratio Lower Upper

65 100

67 49.7 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: VN088492.D

Acq: 10 Dec 2025 12:23

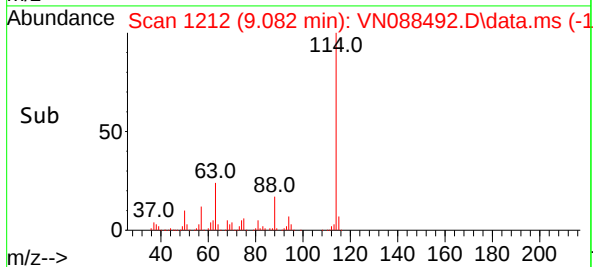
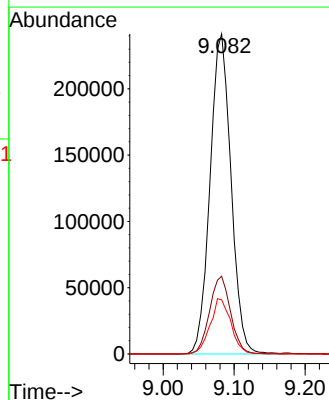
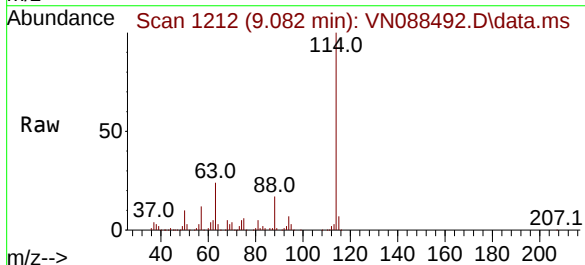
Tgt Ion: 114 Resp: 494367

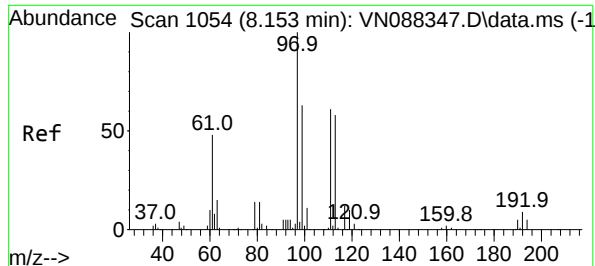
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.0

88 16.9 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.960 ug/l

RT: 8.147 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VN088492.D

Acq: 10 Dec 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

BR-04DR-451-120825

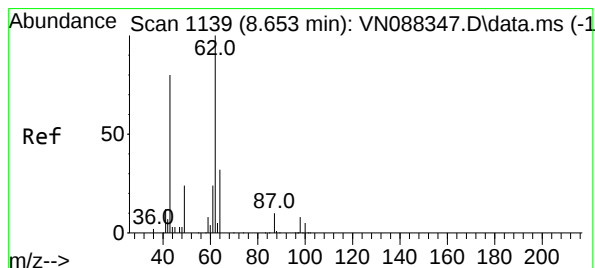
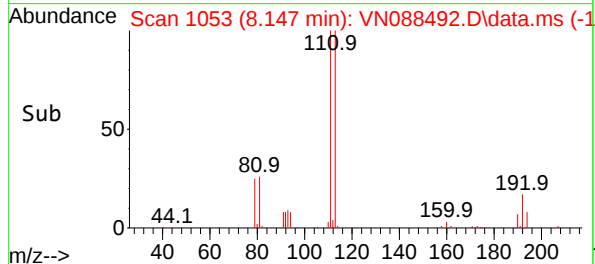
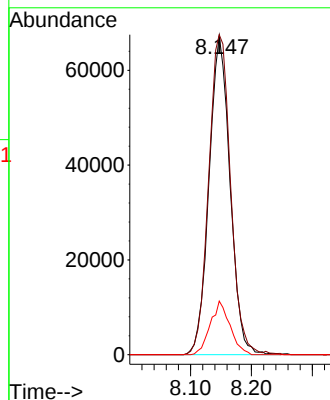
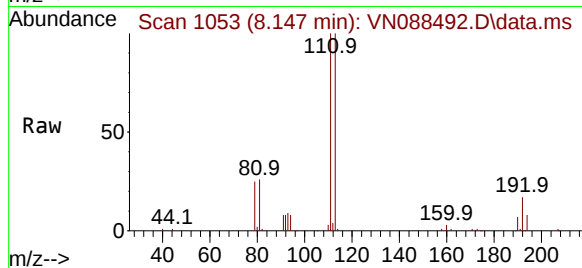
Tgt Ion:113 Resp: 160883

Ion Ratio Lower Upper

113 100

111 104.8 82.5 123.7

192 15.8 12.8 19.2



#42

1,2-Dichloroethane

Concen: 1.020 ug/l

RT: 8.653 min Scan# 1139

Delta R.T. 0.000 min

Lab File: VN088492.D

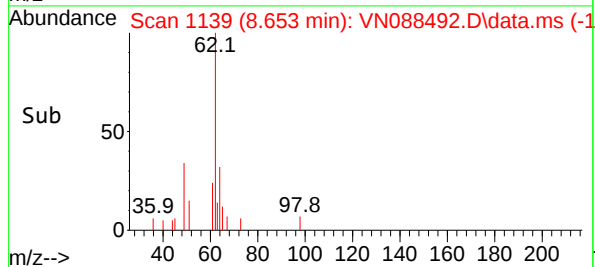
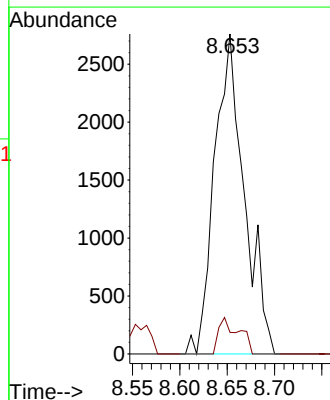
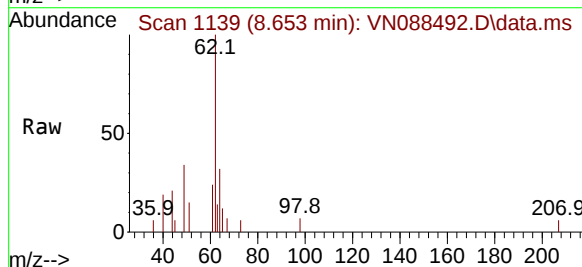
Acq: 10 Dec 2025 12:23

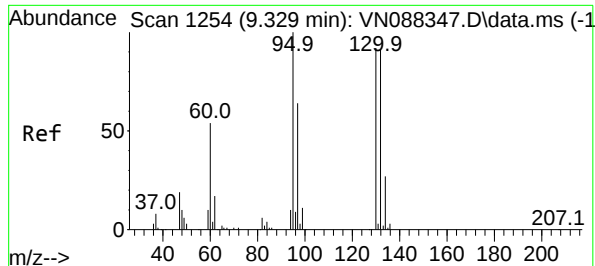
Tgt Ion: 62 Resp: 6039

Ion Ratio Lower Upper

62 100

98 7.7 0.0 16.2





#44

Trichloroethene

Concen: 7.286 ug/l

RT: 9.329 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088492.D

Acq: 10 Dec 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

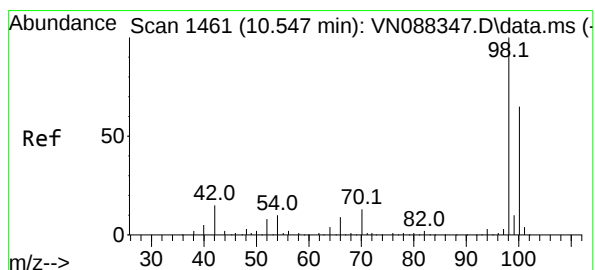
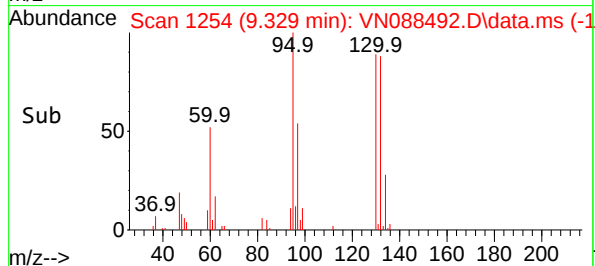
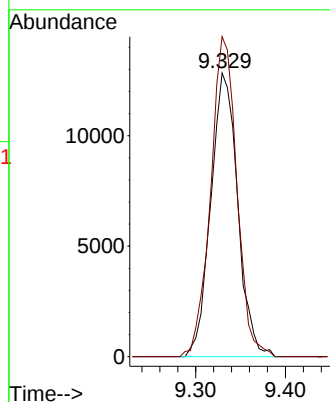
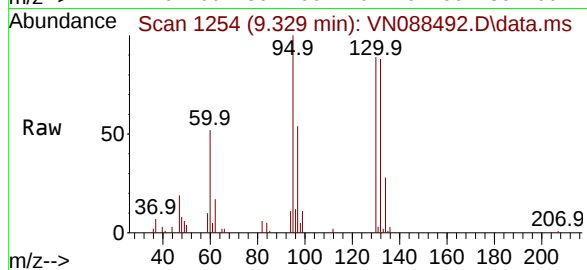
BR-04DR-451-120825

Tgt Ion:130 Resp: 26716

Ion Ratio Lower Upper

130 100

95 112.8 0.0 217.0



#50

Toluene-d8

Concen: 44.919 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088492.D

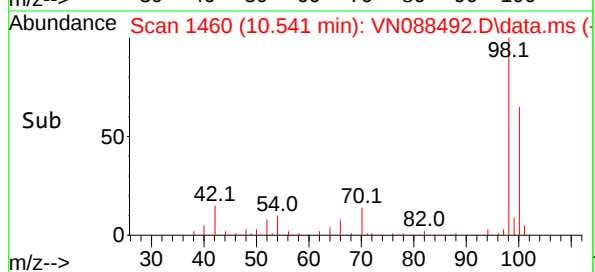
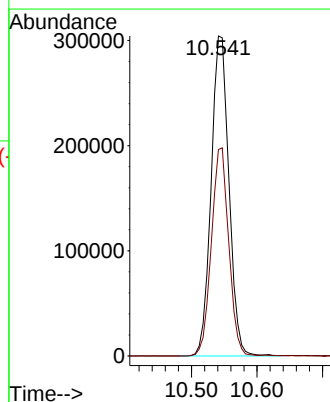
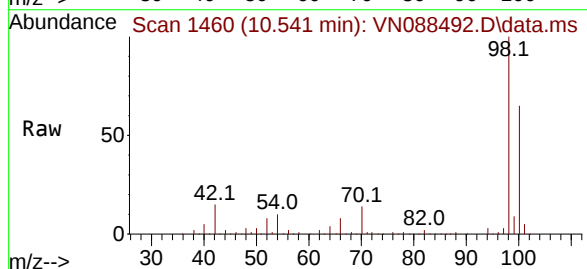
Acq: 10 Dec 2025 12:23

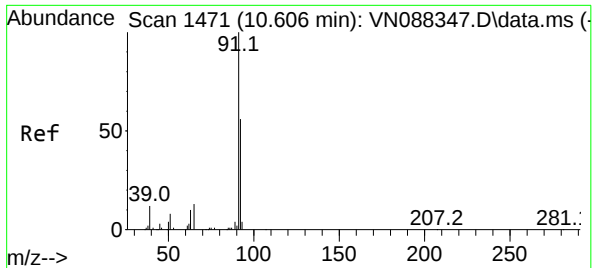
Tgt Ion: 98 Resp: 572596

Ion Ratio Lower Upper

98 100

100 63.5 52.2 78.2

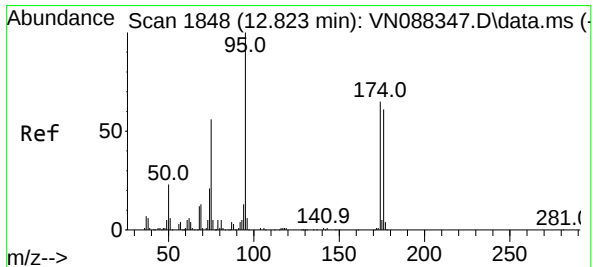
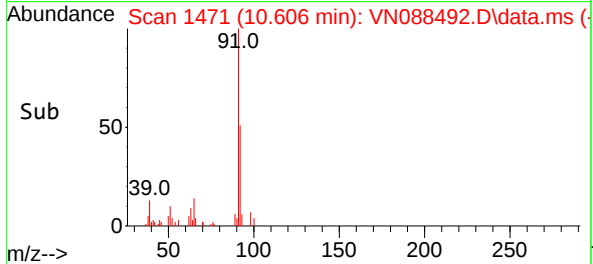
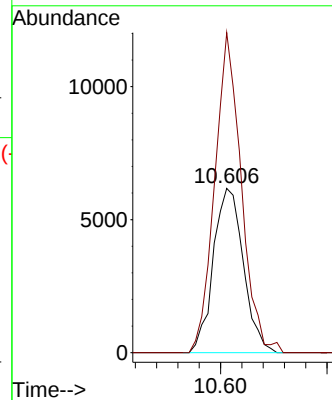
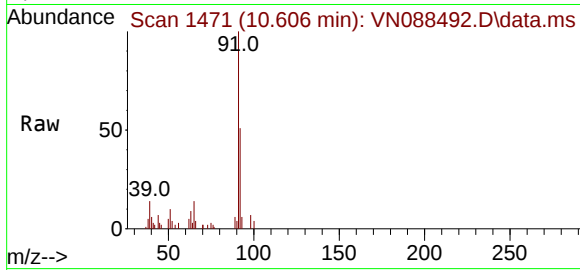




#52
Toluene
Concen: 1.349 ug/l
RT: 10.606 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

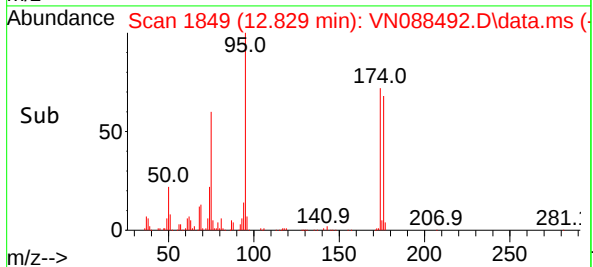
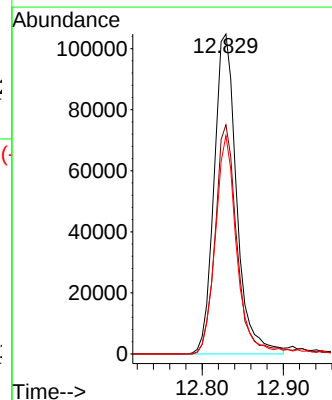
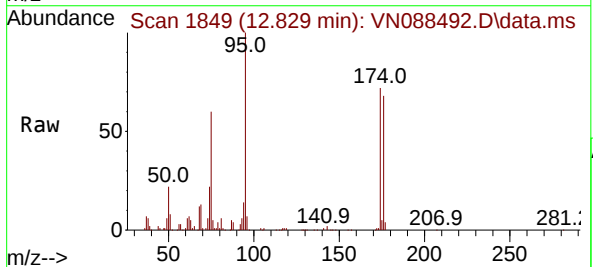
Instrument :
MSVOA_N
ClientSampleId :
BR-04DR-451-120825

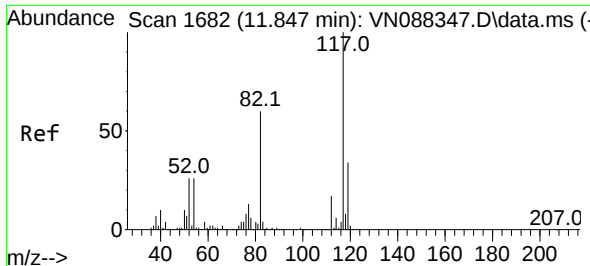
Tgt Ion: 92 Resp: 12084
Ion Ratio Lower Upper
92 100
91 172.2 140.2 210.2



#62
4-Bromofluorobenzene
Concen: 46.322 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088492.D
Acq: 10 Dec 2025 12:23

Tgt Ion: 95 Resp: 202603
Ion Ratio Lower Upper
95 100
174 69.2 0.0 139.0
176 65.5 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: VN088492.D

Acq: 10 Dec 2025 12:23

Instrument :

MSVOA_N

ClientSampleId :

BR-04DR-451-120825

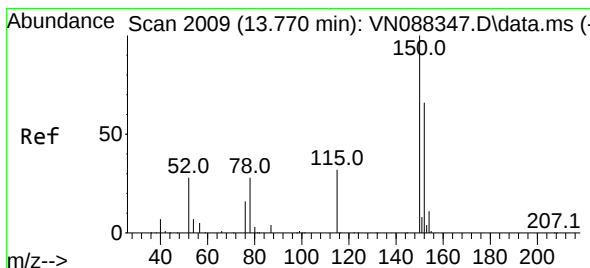
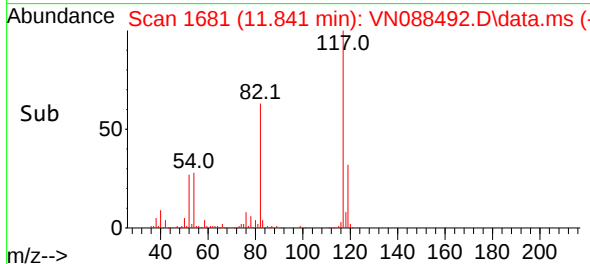
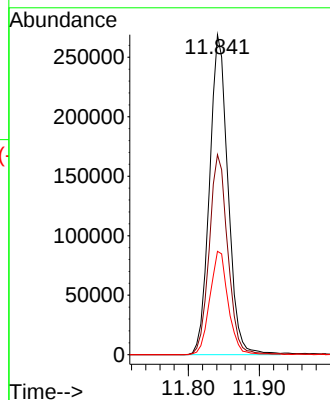
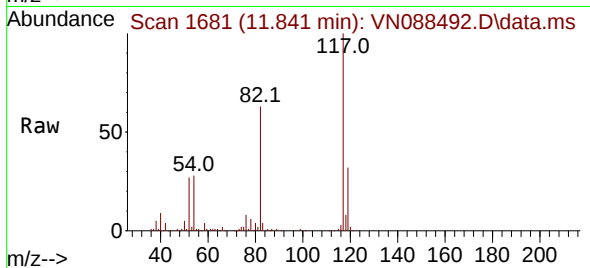
Tgt Ion:117 Resp: 485409

Ion Ratio Lower Upper

117 100

82 62.5 47.8 71.8

119 32.3 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: VN088492.D

Acq: 10 Dec 2025 12:23

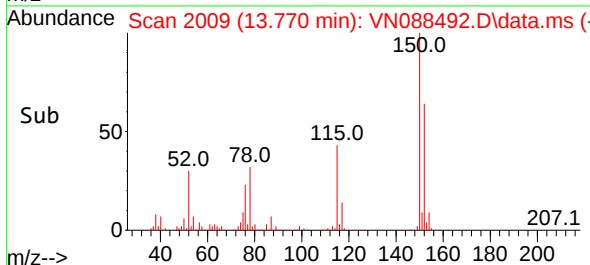
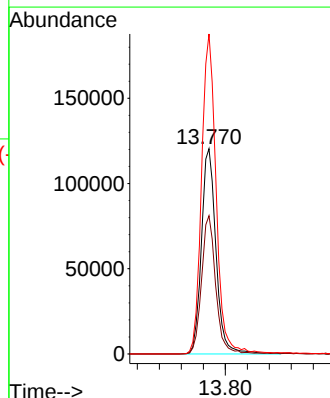
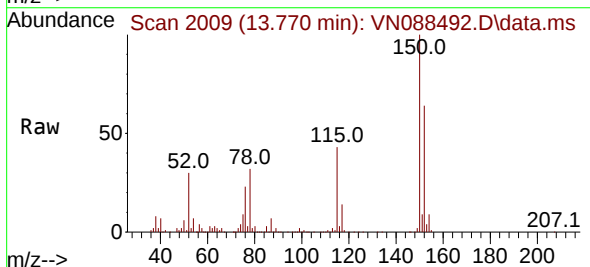
Tgt Ion:152 Resp: 222072

Ion Ratio Lower Upper

152 100

115 65.6 33.0 98.9

150 156.6 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088493.D
 Acq On : 10 Dec 2025 12:44
 Operator : JC\MD
 Sample : Q3813-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EB01-120825

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 11 02:06:20 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)

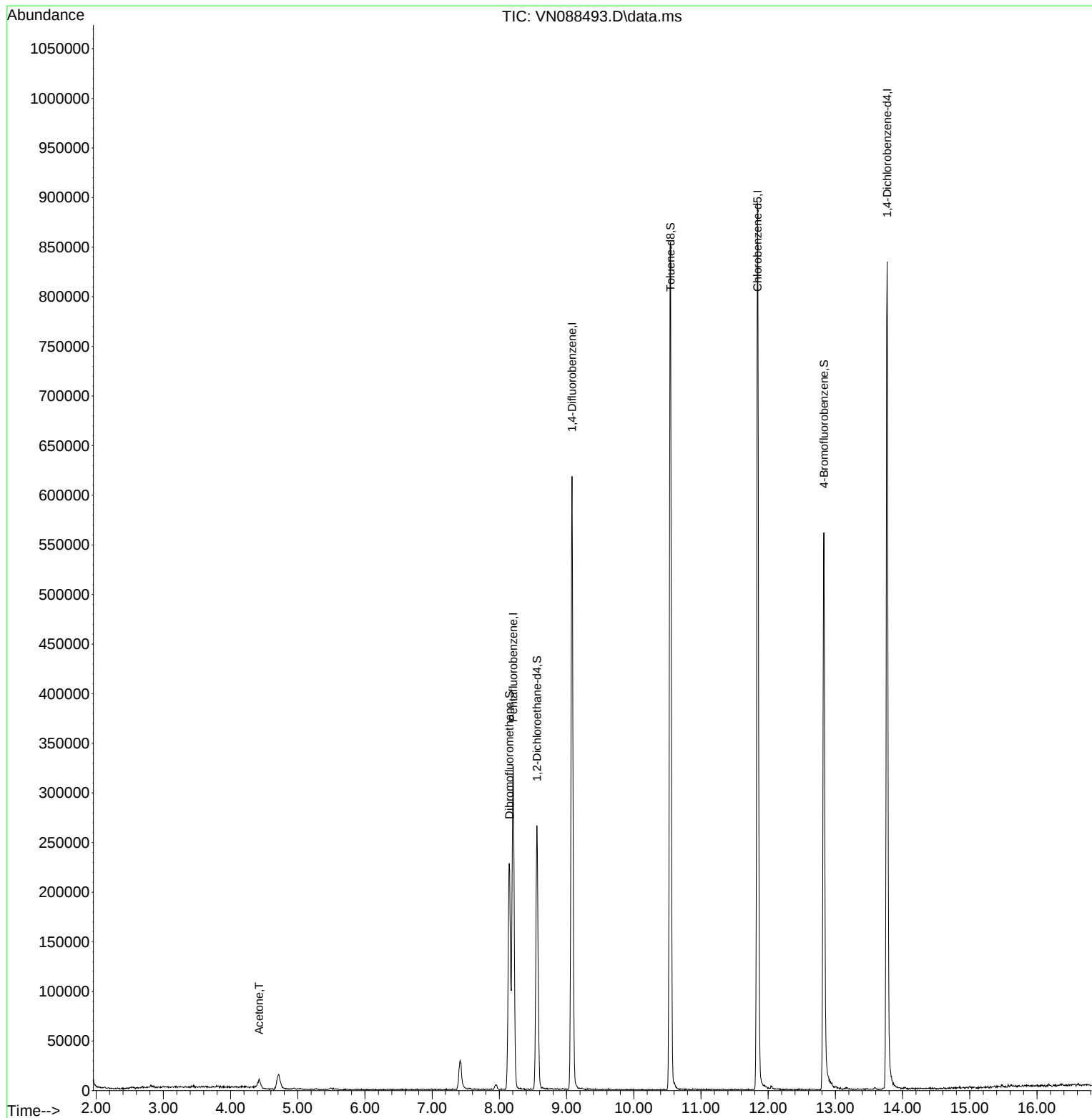
Internal Standards						
1) Pentafluorobenzene	8.206	168	207235	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	478662	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	473650	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	215051	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	227328	58.231	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	116.460%	
35) Dibromofluoromethane	8.147	113	163948	49.425	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	98.840%	
50) Toluene-d8	10.547	98	573401	46.459	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	92.920%	
62) 4-Bromofluorobenzene	12.829	95	213914	50.513	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	101.020%	
Target Compounds						
					Qvalue	
16) Acetone	4.424	43	18673	13.226	ug/l #	77

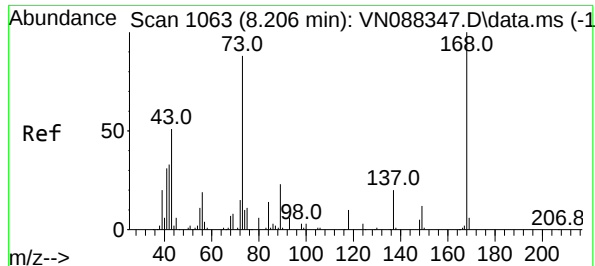
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088493.D
Acq On : 10 Dec 2025 12:44
Operator : JC\MD
Sample : Q3813-03
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB01-120825

Quant Time: Dec 11 02:06:20 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

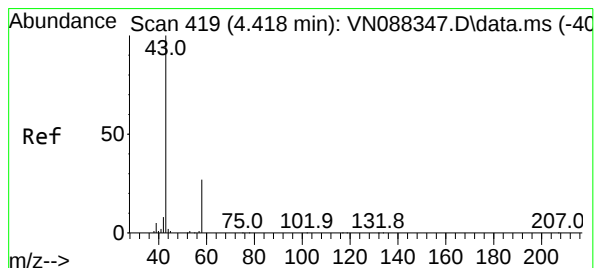
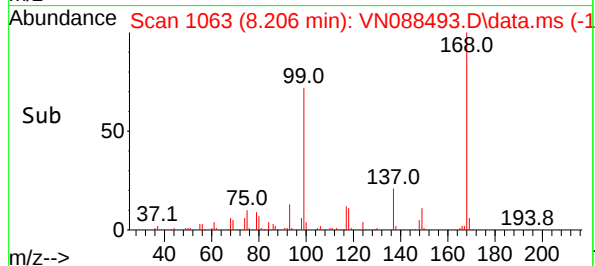
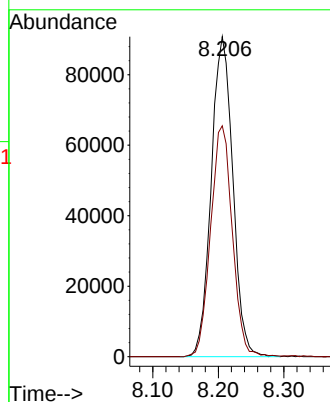
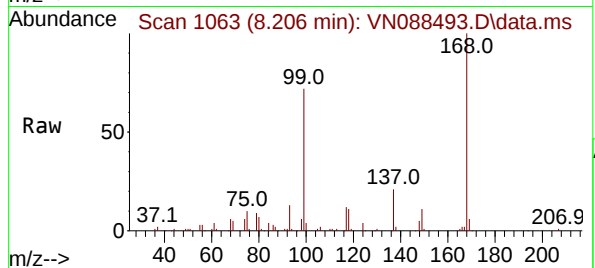




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

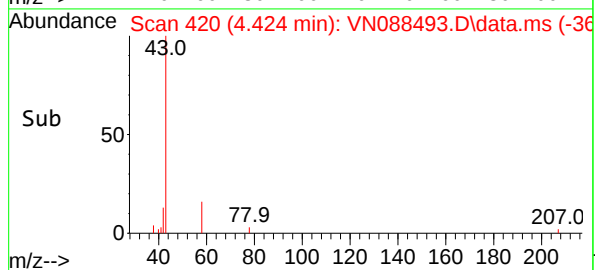
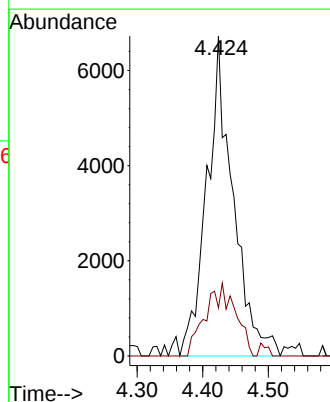
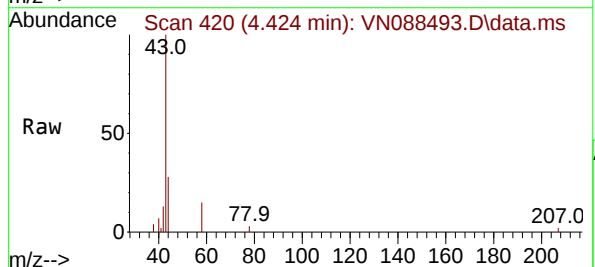
Instrument :
MSVOA_N
ClientSampleId :
EB01-120825

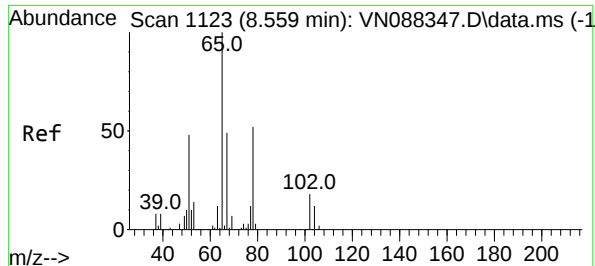
Tgt Ion:168 Resp: 207235
Ion Ratio Lower Upper
168 100
99 72.1 57.1 85.7



#16
Acetone
Concen: 13.226 ug/l
RT: 4.424 min Scan# 420
Delta R.T. 0.006 min
Lab File: VN088493.D
Acq: 10 Dec 2025 12:44

Tgt Ion: 43 Resp: 18673
Ion Ratio Lower Upper
43 100
58 15.0 21.7 32.5#





#33

1,2-Dichloroethane-d4

Concen: 58.231 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

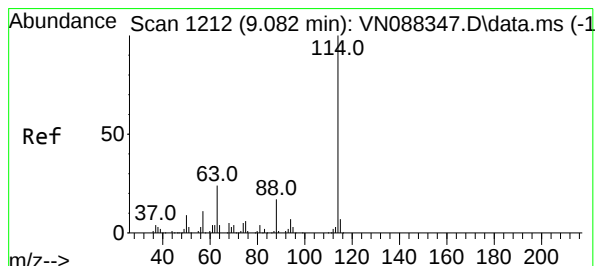
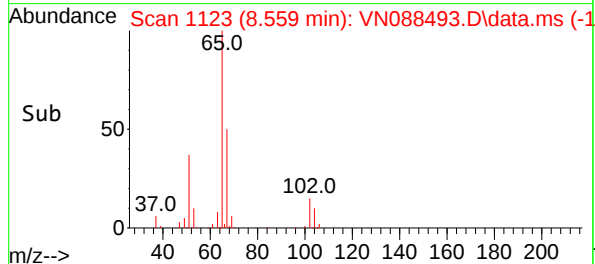
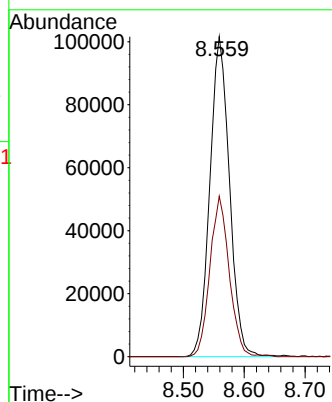
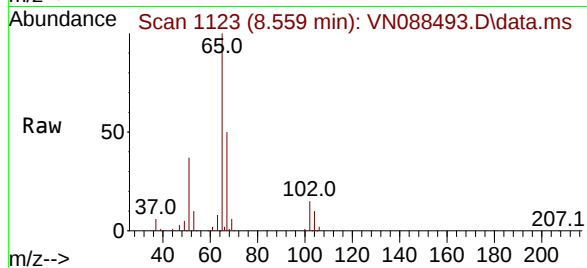
EB01-120825

Tgt Ion: 65 Resp: 227328

Ion Ratio Lower Upper

65 100

67 49.6 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: VN088493.D

Acq: 10 Dec 2025 12:44

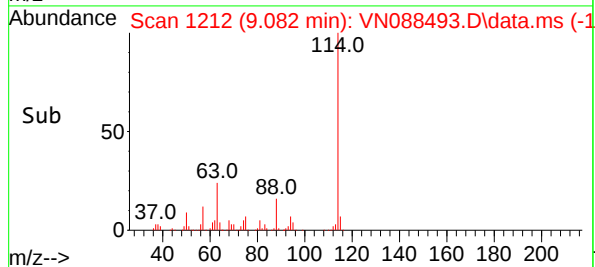
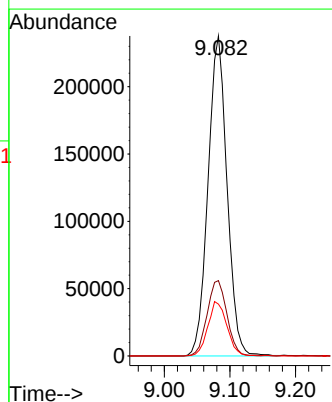
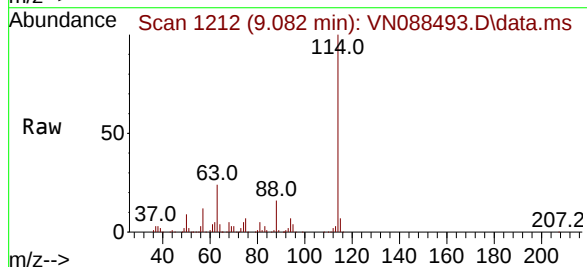
Tgt Ion: 114 Resp: 478662

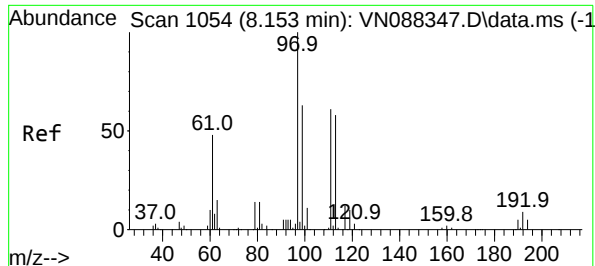
Ion Ratio Lower Upper

114 100

63 23.6 0.0 49.0

88 16.2 0.0 34.0





#35

Dibromofluoromethane

Concen: 49.425 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

EB01-120825

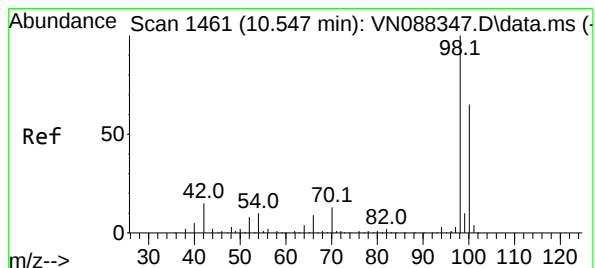
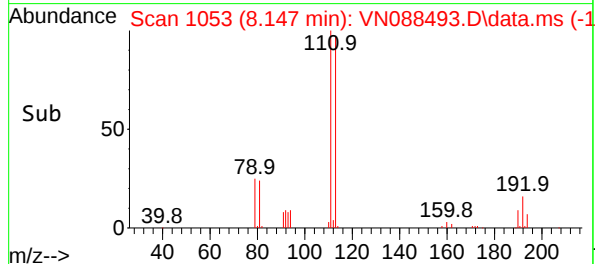
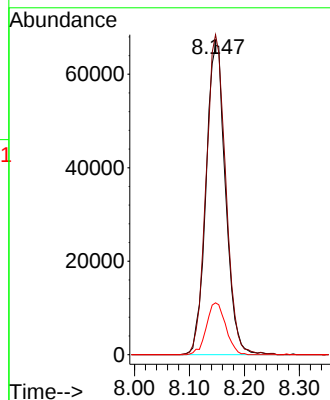
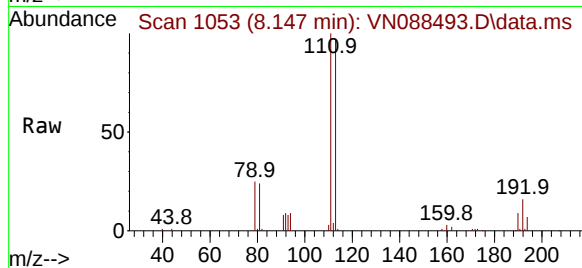
Tgt Ion:113 Resp: 163948

Ion Ratio Lower Upper

113 100

111 103.1 82.5 123.7

192 16.5 12.8 19.2



#50

Toluene-d8

Concen: 46.459 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088493.D

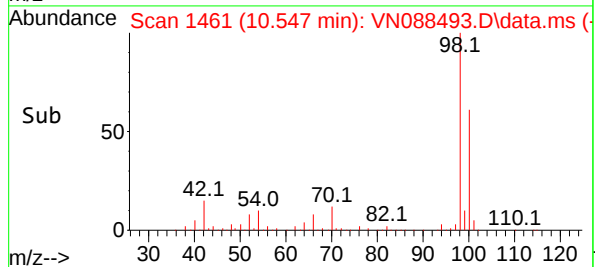
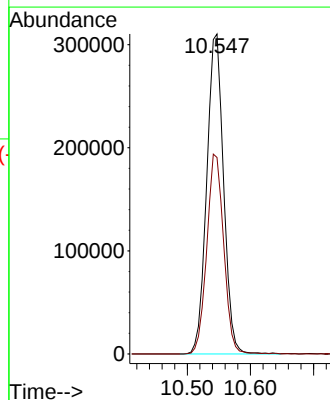
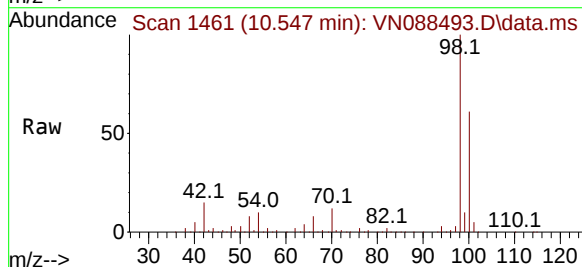
Acq: 10 Dec 2025 12:44

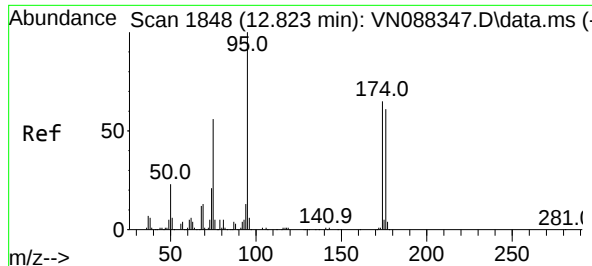
Tgt Ion: 98 Resp: 573401

Ion Ratio Lower Upper

98 100

100 62.7 52.2 78.2





#62

4-Bromofluorobenzene

Concen: 50.513 ug/l

RT: 12.829 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN088493.D

Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

EB01-120825

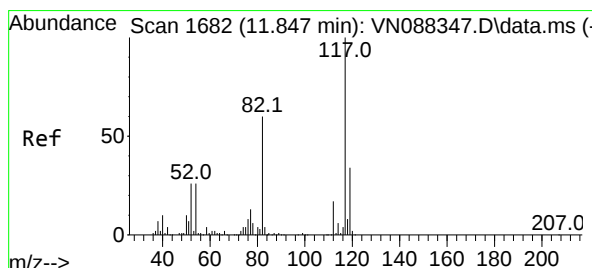
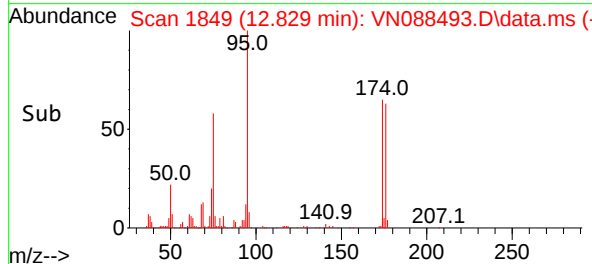
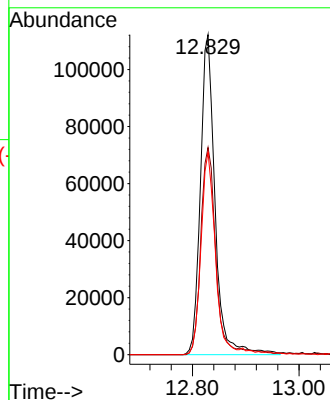
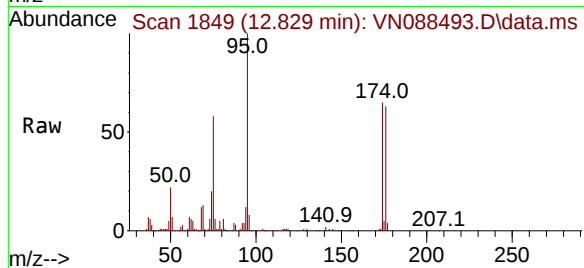
Tgt Ion: 95 Resp: 213914

Ion Ratio Lower Upper

95 100

174 67.0 0.0 139.0

176 61.2 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: VN088493.D

Acq: 10 Dec 2025 12:44

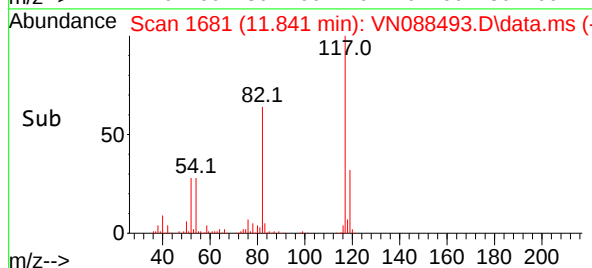
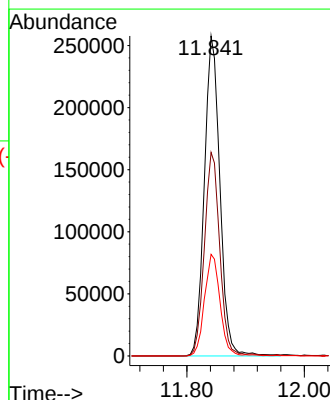
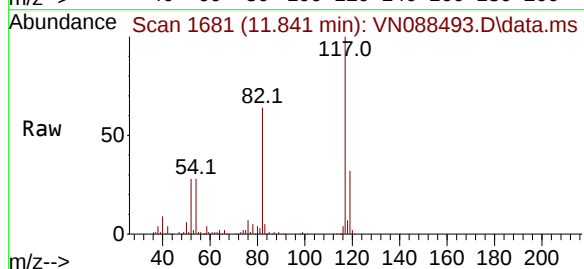
Tgt Ion: 117 Resp: 473650

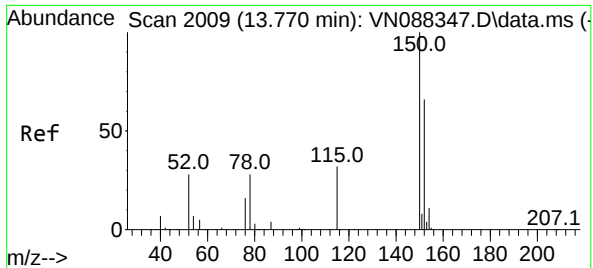
Ion Ratio Lower Upper

117 100

82 63.6 47.8 71.8

119 31.8 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: VN088493.D

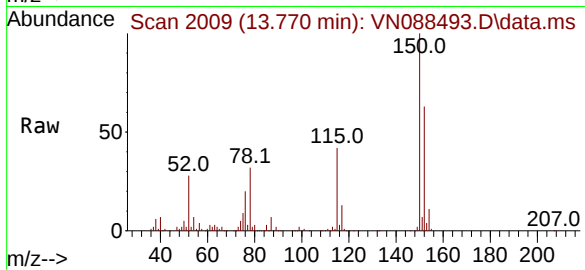
Acq: 10 Dec 2025 12:44

Instrument :

MSVOA_N

ClientSampleId :

EB01-120825



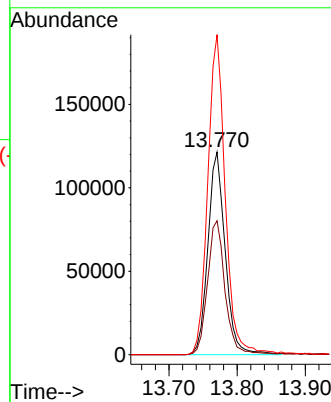
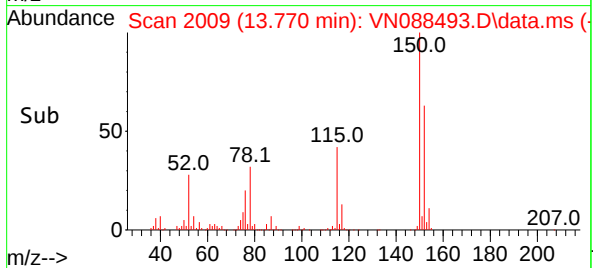
Tgt Ion:152 Resp: 215051

Ion Ratio Lower Upper

152 100

115 66.8 33.0 98.9

150 159.9 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088494.D
 Acq On : 10 Dec 2025 13:04
 Operator : JC\MD
 Sample : Q3813-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB01-120825

Quant Time: Dec 11 02:06:41 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	225847	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	531810	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	534272	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	252826	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	259278	60.942	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	121.880%
35) Dibromofluoromethane	8.147	113	180608	49.006	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.020%
50) Toluene-d8	10.541	98	618777	45.125	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	90.240%
62) 4-Bromofluorobenzene	12.829	95	228926	48.655	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.320%

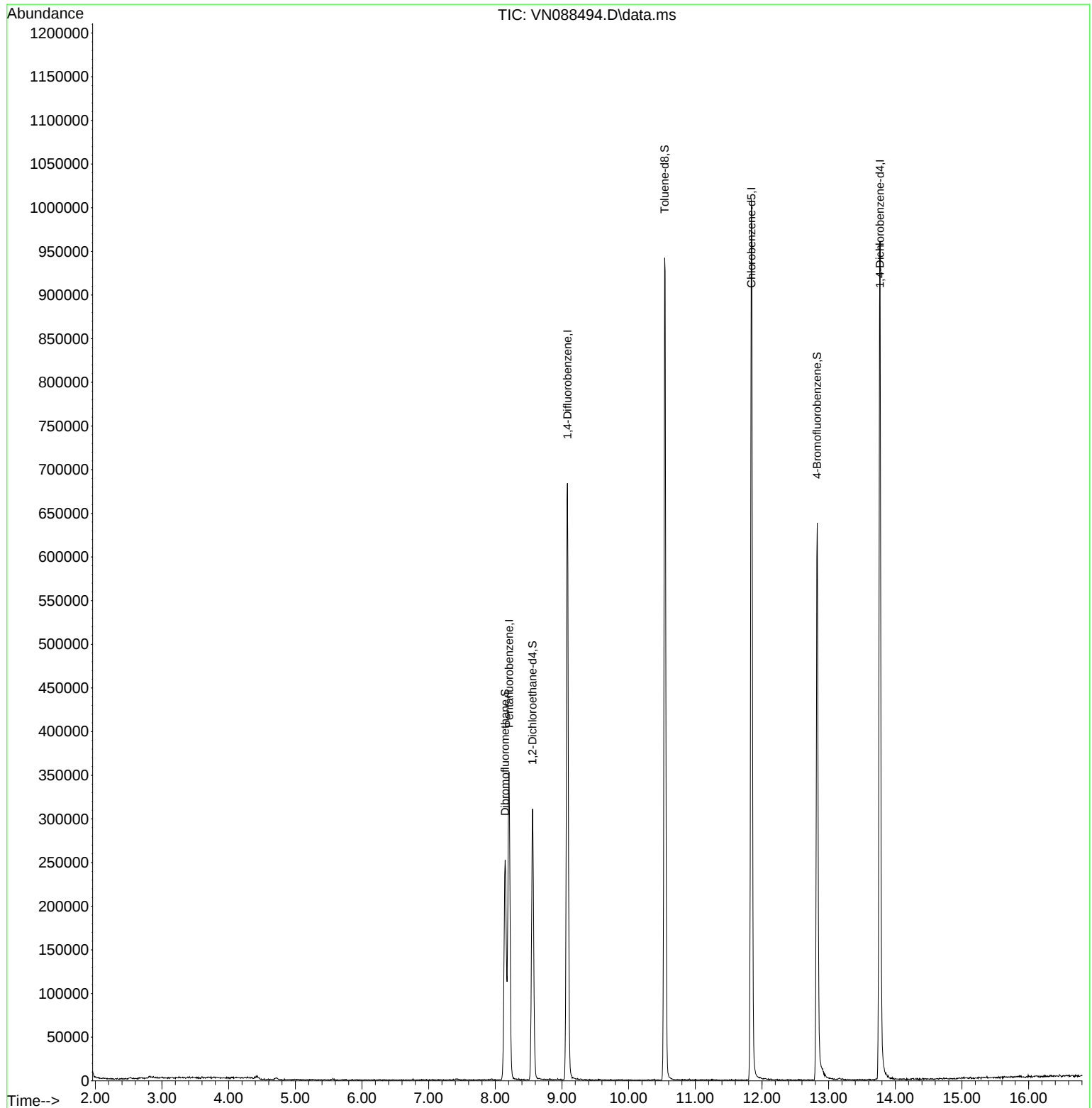
Target Compounds	Qvalue

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

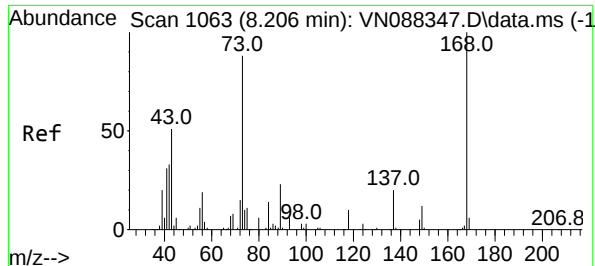
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088494.D
Acq On : 10 Dec 2025 13:04
Operator : JC\MD
Sample : Q3813-04
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB01-120825

Quant Time: Dec 11 02:06:41 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



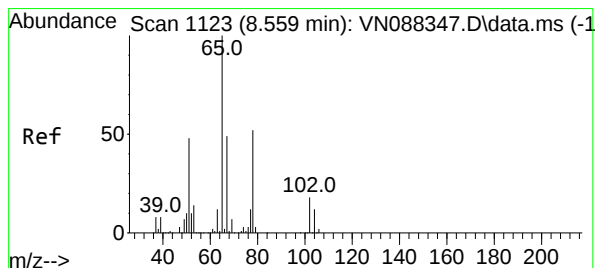
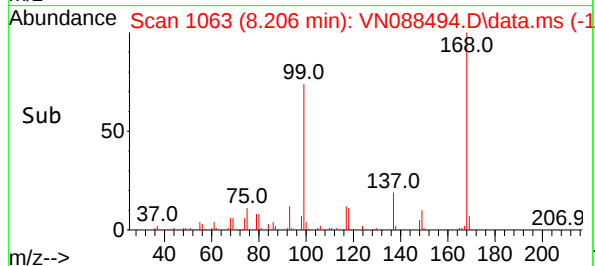
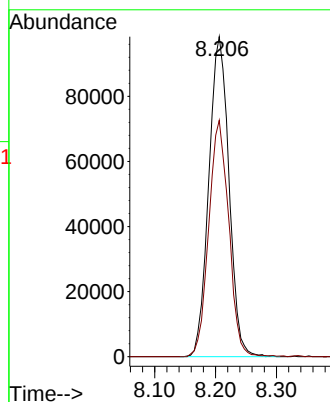
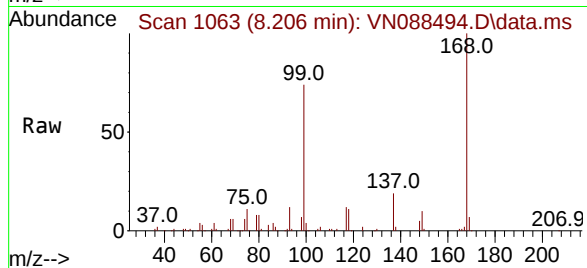
A
B
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D
E
F
G
H
I
J
K



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

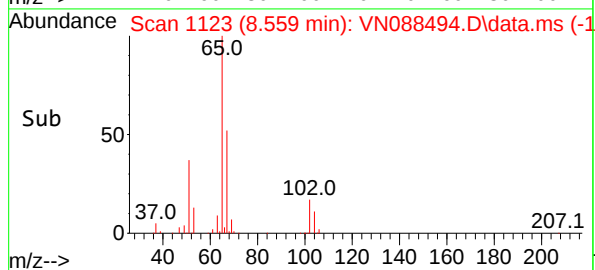
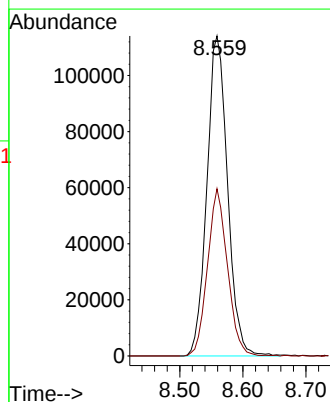
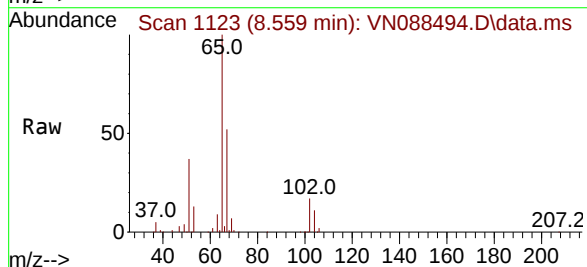
Instrument :
MSVOA_N
ClientSampleId :
TB01-120825

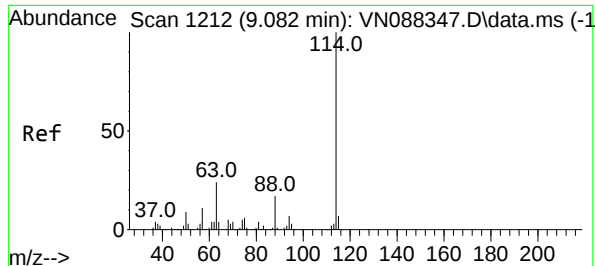
Tgt Ion:168 Resp: 225847
Ion Ratio Lower Upper
168 100
99 73.9 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 60.942 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Tgt Ion: 65 Resp: 259278
Ion Ratio Lower Upper
65 100
67 50.5 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088494.D

Acq: 10 Dec 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

TB01-120825

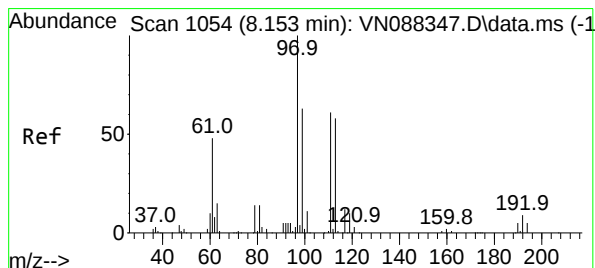
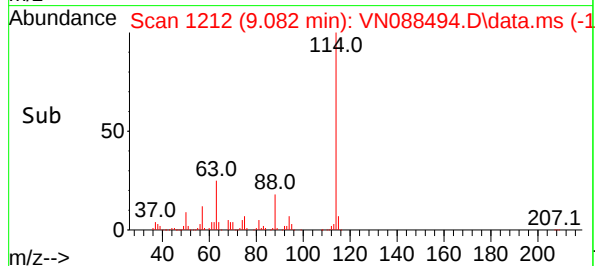
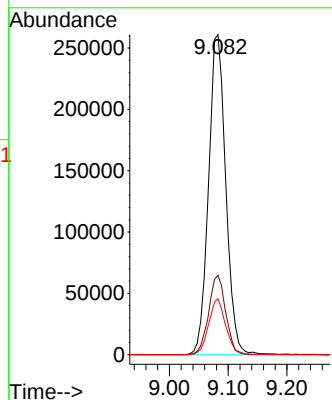
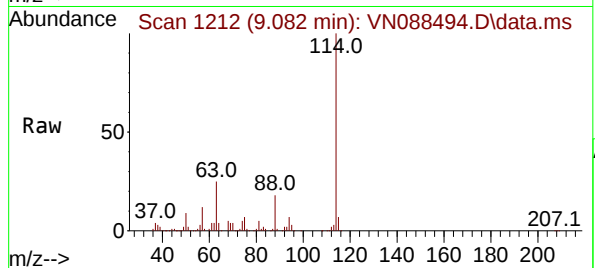
Tgt Ion:114 Resp: 531810

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.0

88 17.5 0.0 34.0



#35

Dibromofluoromethane

Concen: 49.006 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088494.D

Acq: 10 Dec 2025 13:04

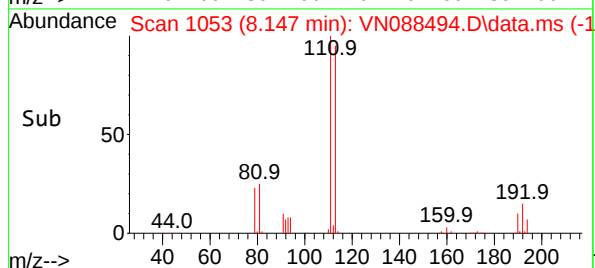
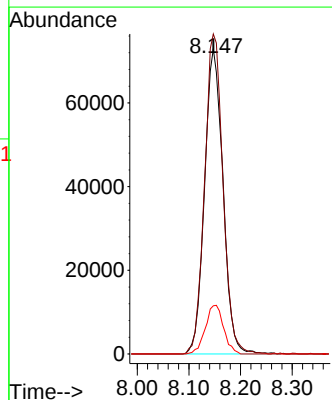
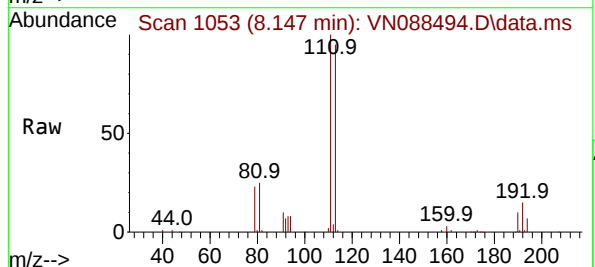
Tgt Ion:113 Resp: 180608

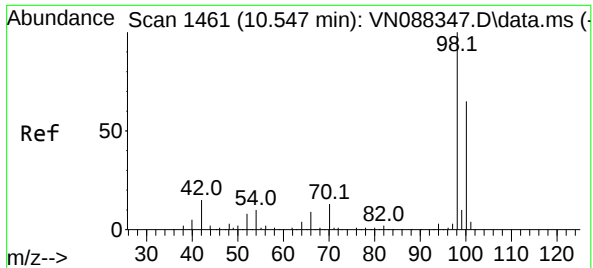
Ion Ratio Lower Upper

113 100

111 104.5 82.5 123.7

192 15.8 12.8 19.2

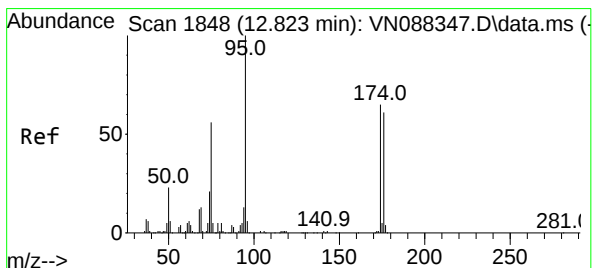
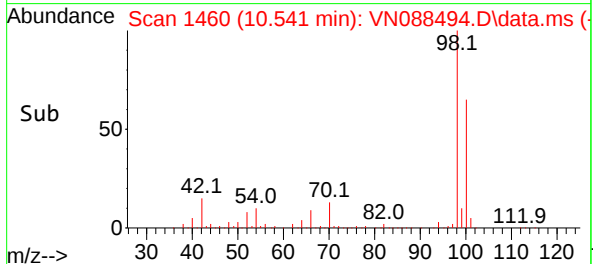
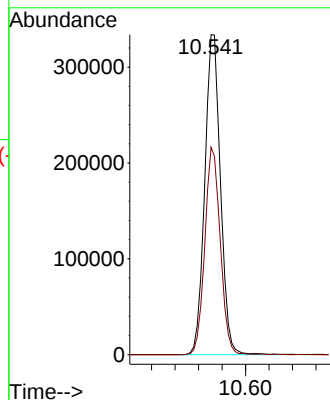
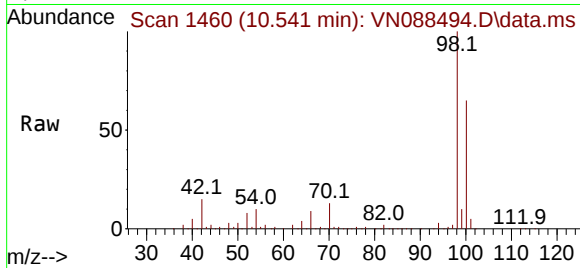




#50
Toluene-d8
Concen: 45.125 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

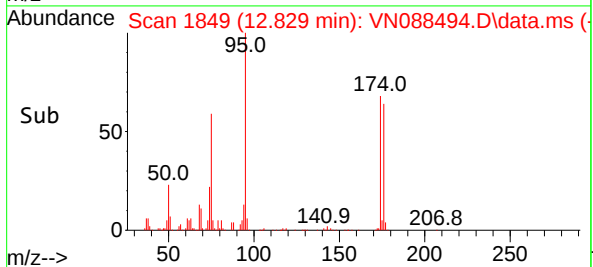
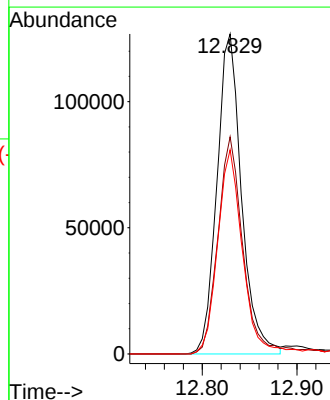
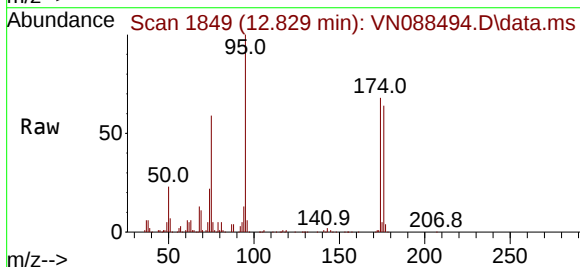
Instrument :
MSVOA_N
ClientSampleId :
TB01-120825

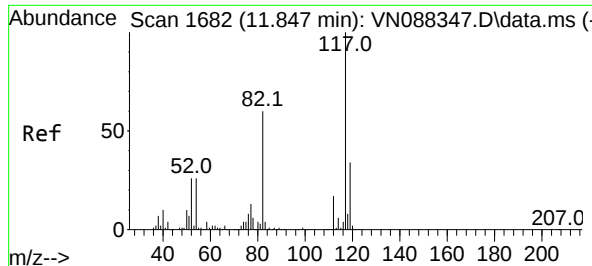
Tgt Ion: 98 Resp: 618777
Ion Ratio Lower Upper
98 100
100 63.5 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 48.655 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088494.D
Acq: 10 Dec 2025 13:04

Tgt Ion: 95 Resp: 228926
Ion Ratio Lower Upper
95 100
174 70.3 0.0 139.0
176 64.6 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: VN088494.D

Acq: 10 Dec 2025 13:04

Instrument :

MSVOA_N

ClientSampleId :

TB01-120825

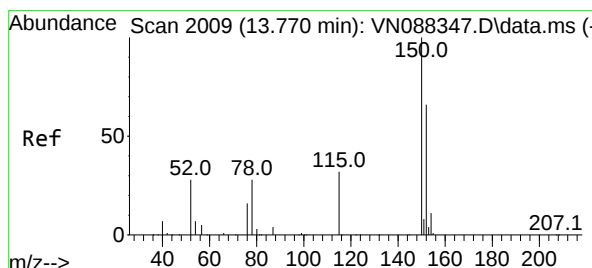
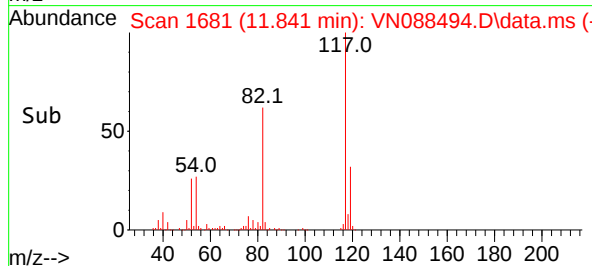
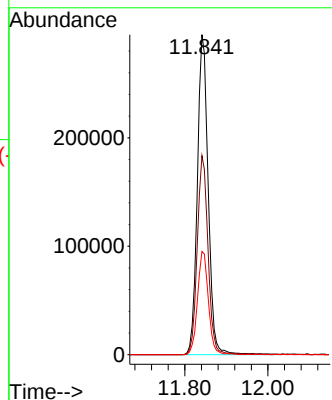
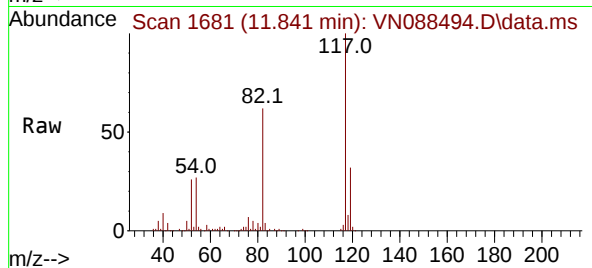
Tgt Ion:117 Resp: 534272

Ion Ratio Lower Upper

117 100

82 62.2 47.8 71.8

119 32.3 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: VN088494.D

Acq: 10 Dec 2025 13:04

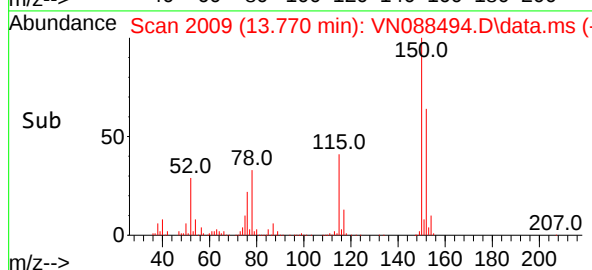
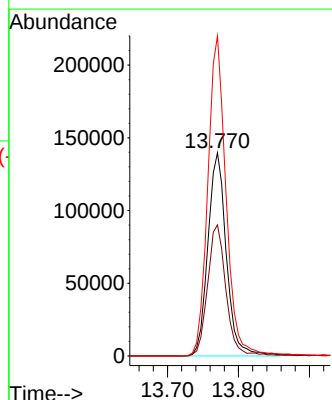
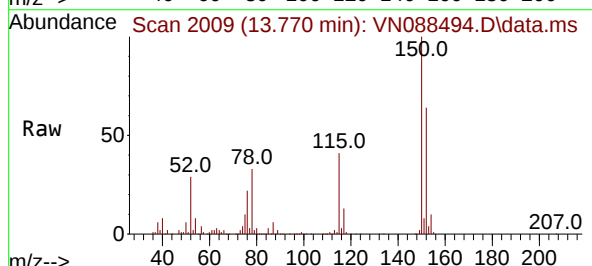
Tgt Ion:152 Resp: 252826

Ion Ratio Lower Upper

152 100

115 64.4 33.0 98.9

150 156.0 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088489.D
 Acq On : 10 Dec 2025 10:57
 Operator : JC\MD
 Sample : VN1210WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBL01

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D
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F
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H
I
J
K

Quant Time: Dec 11 02:03:46 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	8.200	168	199142	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	459524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	467279	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	211178	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	216905	57.819	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.640%
35) Dibromofluoromethane	8.147	113	161740	50.790	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.580%
50) Toluene-d8	10.541	98	557070	47.015	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.040%
62) 4-Bromofluorobenzene	12.823	95	195010	47.967	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	95.940%

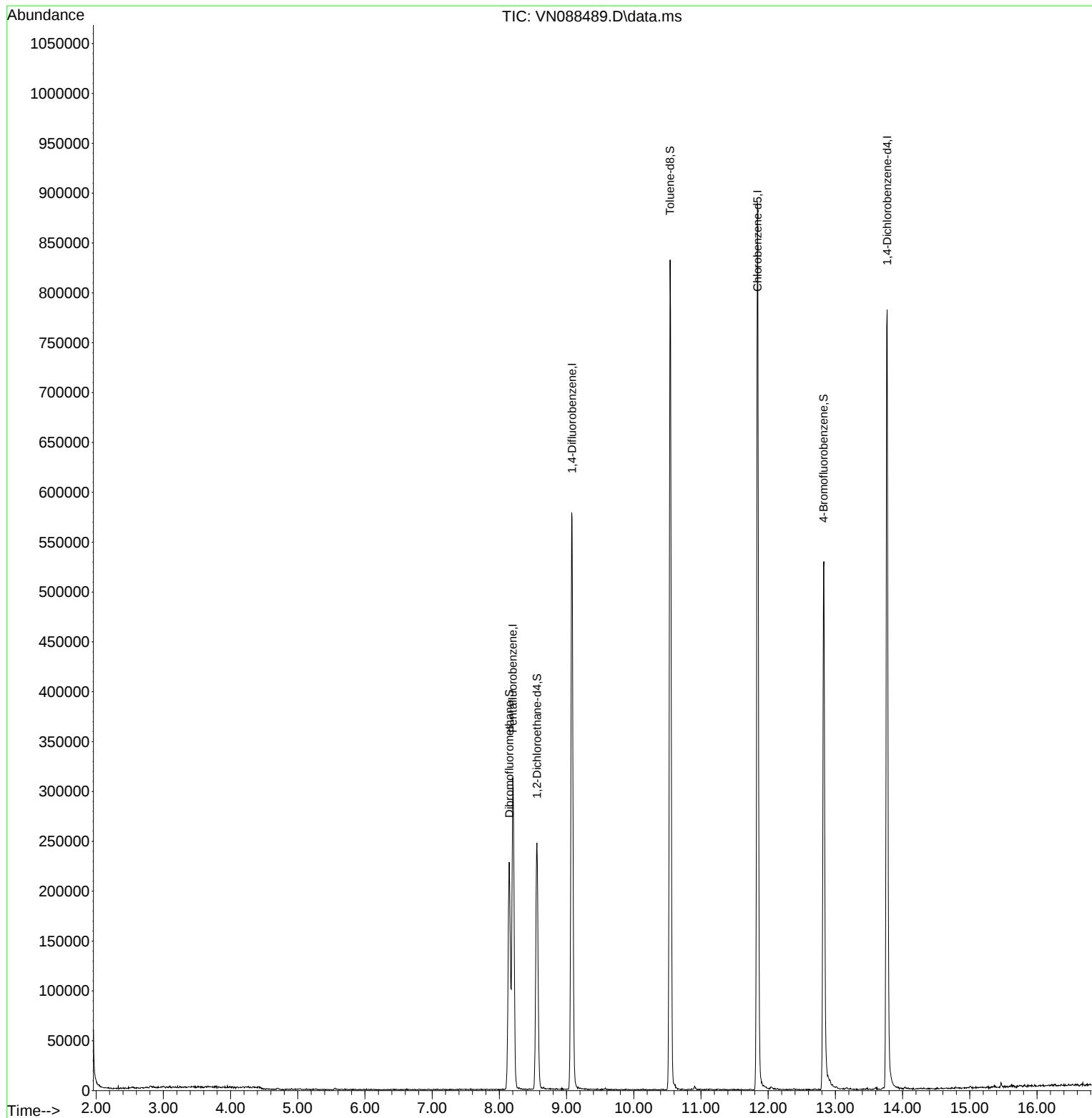
Target Compounds	Qvalue

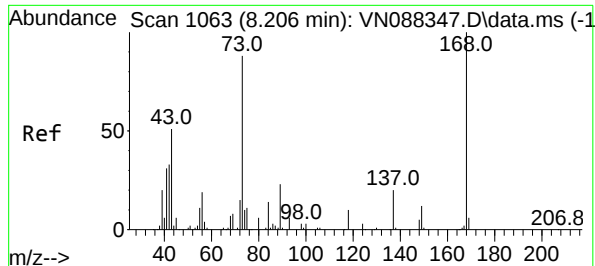
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088489.D
Acq On : 10 Dec 2025 10:57
Operator : JC\MD
Sample : VN1210WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

Quant Time: Dec 11 02:03:46 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

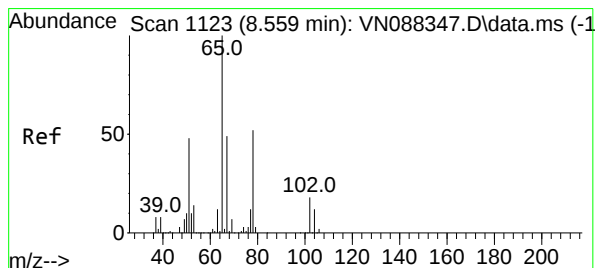
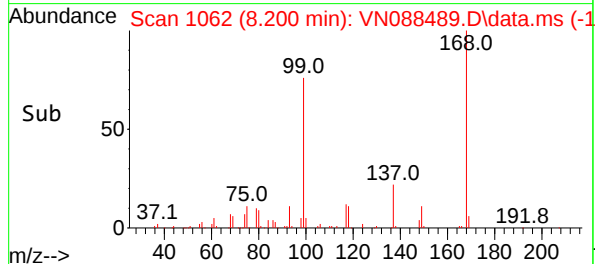
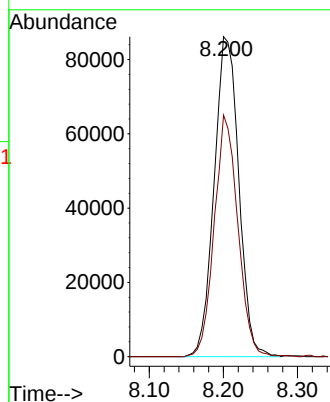
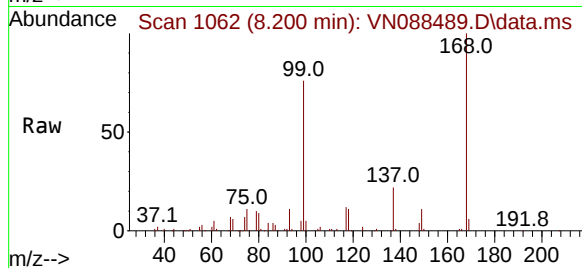




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN088489.D
Acq: 10 Dec 2025 10:57

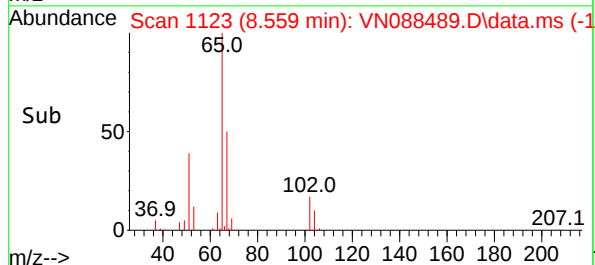
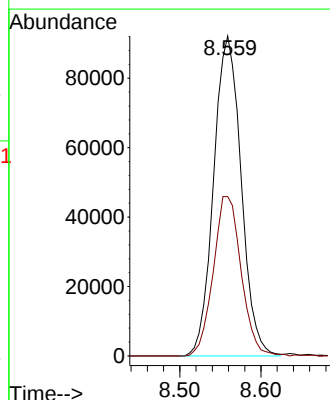
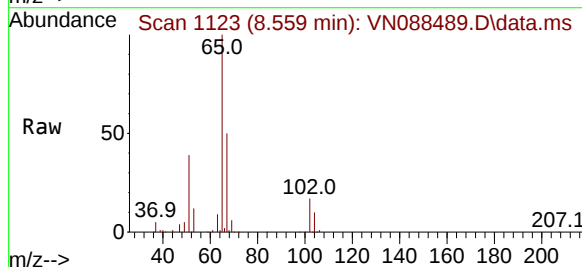
Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

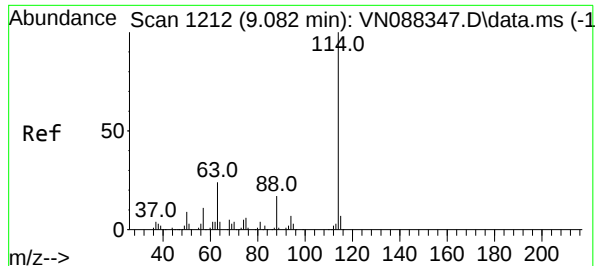
Tgt Ion:168 Resp: 199142
Ion Ratio Lower Upper
168 100
99 75.5 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 57.819 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. 0.000 min
Lab File: VN088489.D
Acq: 10 Dec 2025 10:57

Tgt Ion: 65 Resp: 216905
Ion Ratio Lower Upper
65 100
67 50.6 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN088489.D

Acq: 10 Dec 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBL01

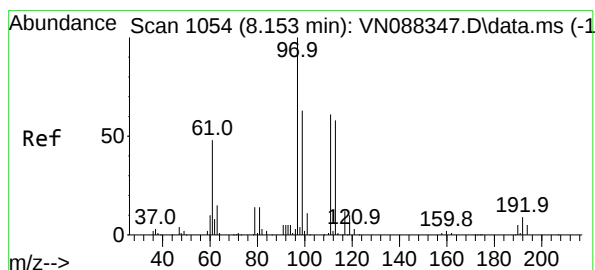
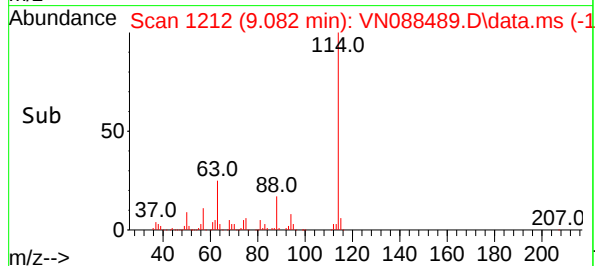
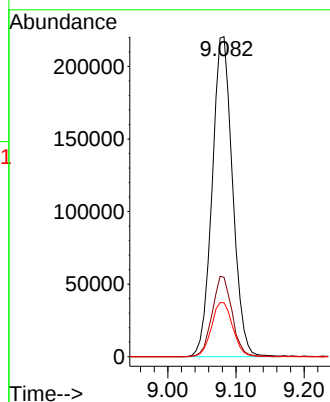
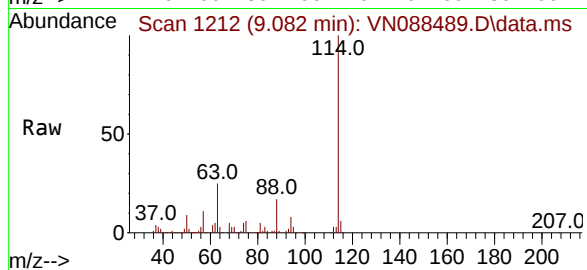
Tgt Ion:114 Resp: 459524

Ion Ratio Lower Upper

114 100

63 24.8 0.0 49.0

88 16.8 0.0 34.0



#35

Dibromofluoromethane

Concen: 50.790 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088489.D

Acq: 10 Dec 2025 10:57

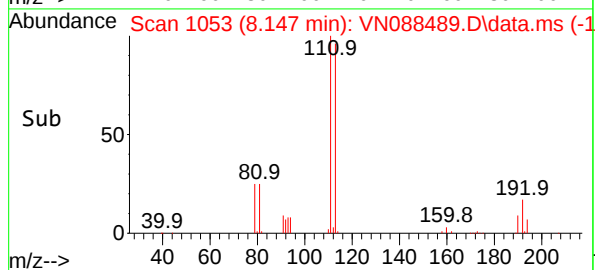
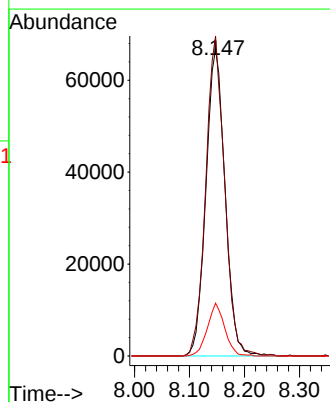
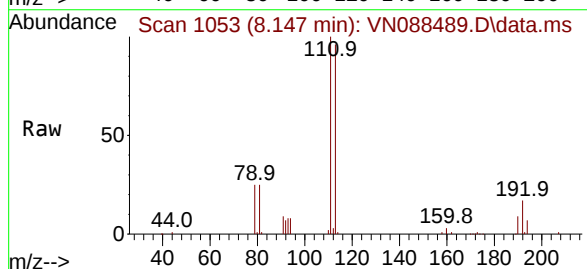
Tgt Ion:113 Resp: 161740

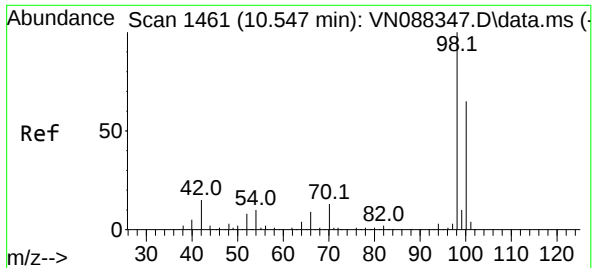
Ion Ratio Lower Upper

113 100

111 102.5 82.5 123.7

192 15.6 12.8 19.2

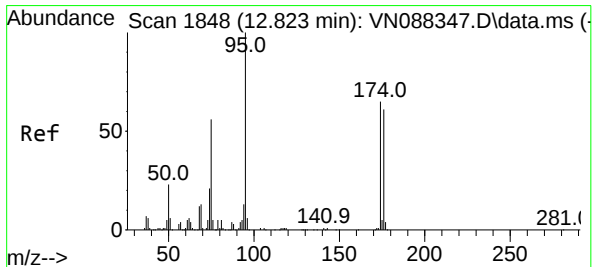
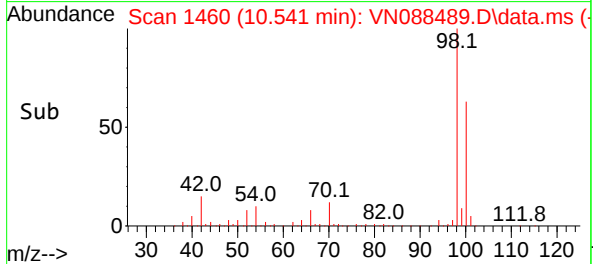
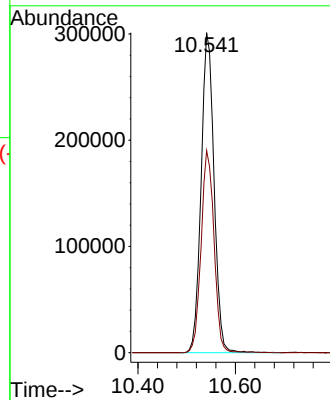
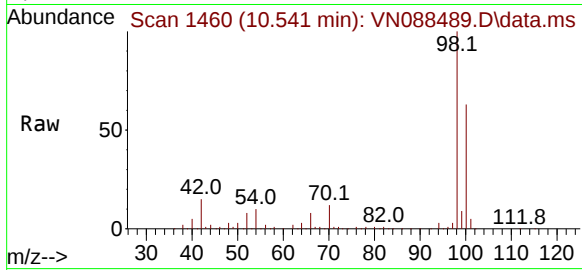




#50
Toluene-d8
Concen: 47.015 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088489.D
Acq: 10 Dec 2025 10:57

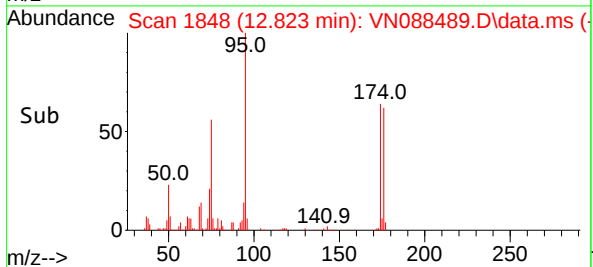
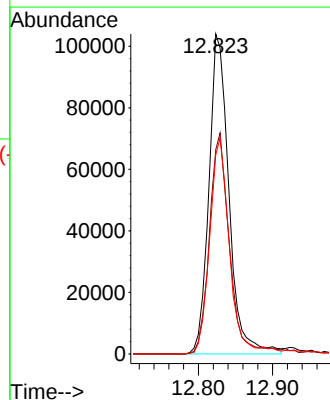
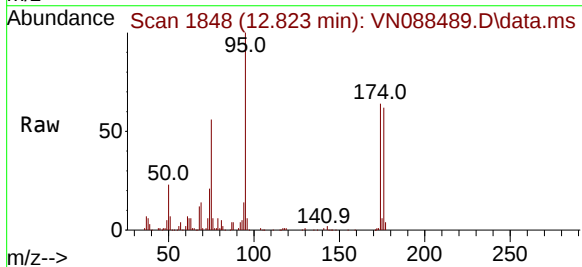
Instrument :
MSVOA_N
ClientSampleId :
VN1210WBL01

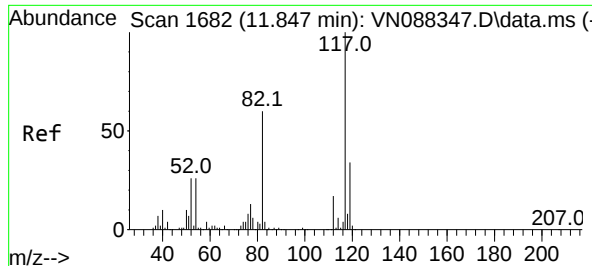
Tgt Ion: 98 Resp: 557070
Ion Ratio Lower Upper
98 100
100 63.2 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 47.967 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088489.D
Acq: 10 Dec 2025 10:57

Tgt Ion: 95 Resp: 195010
Ion Ratio Lower Upper
95 100
174 70.0 0.0 139.0
176 65.3 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: VN088489.D

Acq: 10 Dec 2025 10:57

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBL01

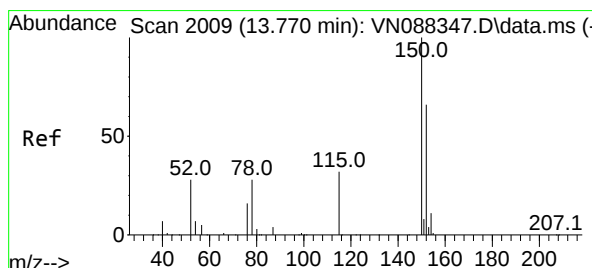
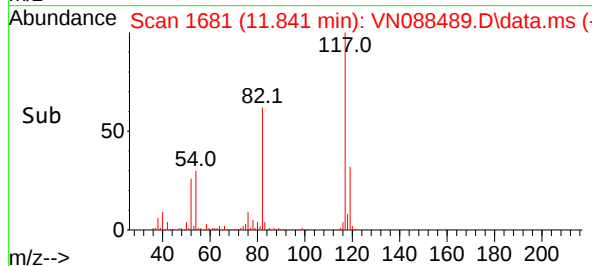
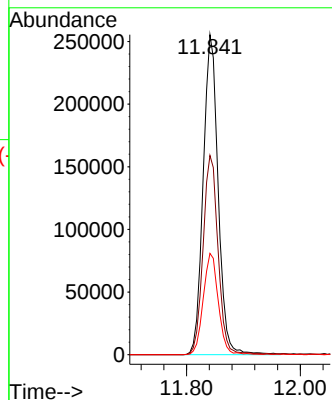
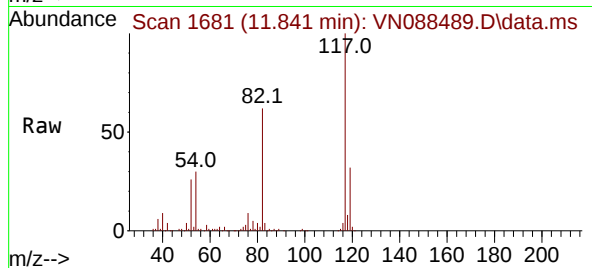
Tgt Ion:117 Resp: 467279

Ion Ratio Lower Upper

117 100

82 62.2 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# 2009

Delta R.T. 0.000 min

Lab File: VN088489.D

Acq: 10 Dec 2025 10:57

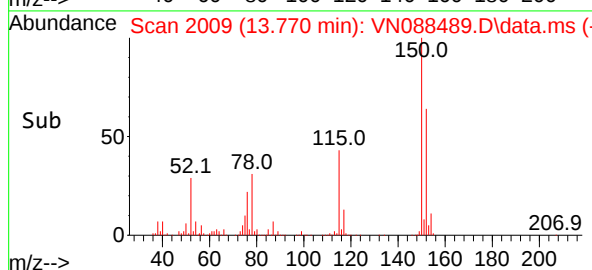
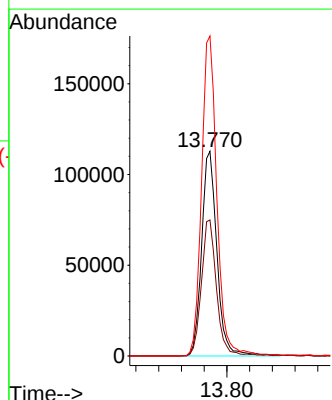
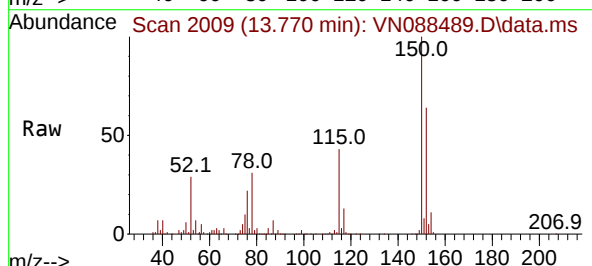
Tgt Ion:152 Resp: 211178

Ion Ratio Lower Upper

152 100

115 64.7 33.0 98.9

150 156.6 0.0 349.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088491.D
 Acq On : 10 Dec 2025 12:03
 Operator : JC\MD
 Sample : VN1210WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 02:04:57 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	279896	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	512638	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	464243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	225326	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.559	65	302126	57.300	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 114.600%	
35) Dibromofluoromethane	8.147	113	197450	55.580	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.160%	
50) Toluene-d8	10.541	98	712188	53.879	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.760%	
62) 4-Bromofluorobenzene	12.829	95	249748	55.066	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 110.140%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.142	85	82749	19.683	ug/l	97
3) Chloromethane	2.383	50	86390	19.133	ug/l	99
4) Vinyl Chloride	2.536	62	86755	18.887	ug/l	99
5) Bromomethane	2.989	94	42404	19.180	ug/l	100
6) Chloroethane	3.147	64	56571	19.901	ug/l	97
7) Trichlorofluoromethane	3.518	101	131030	20.296	ug/l	95
8) Diethyl Ether	3.959	74	47849	19.747	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.371	101	68173	19.835	ug/l	99
10) Methyl Iodide	4.583	142	58580	17.217	ug/l #	92
11) Tert butyl alcohol	5.512	59	70533	83.787	ug/l	98
12) 1,1-Dichloroethene	4.342	96	63472	18.587	ug/l	96
13) Acrolein	4.183	56	70604	87.605	ug/l	94
14) Allyl chloride	5.012	41	120689	19.068	ug/l	97
15) Acrylonitrile	5.706	53	241627	99.484	ug/l	99
16) Acetone	4.424	43	206481	108.282	ug/l	95
17) Carbon Disulfide	4.706	76	200301	17.950	ug/l	97
18) Methyl Acetate	5.024	43	119208	21.002	ug/l	100
19) Methyl tert-butyl Ether	5.783	73	266679	20.844	ug/l	94
20) Methylene Chloride	5.265	84	80934	19.838	ug/l	97
21) trans-1,2-Dichloroethene	5.777	96	72315	19.117	ug/l	99
22) Diisopropyl ether	6.659	45	289254	21.406	ug/l	96
23) Vinyl Acetate	6.588	43	1260159	115.750	ug/l	99
24) 1,1-Dichloroethane	6.553	63	156969	20.513	ug/l	97
25) 2-Butanone	7.465	43	317156	103.459	ug/l	95
26) 2,2-Dichloropropane	7.477	77	136406	20.652	ug/l	99
27) cis-1,2-Dichloroethene	7.465	96	85160	19.371	ug/l	94
28) Bromochloromethane	7.794	49	76036	19.947	ug/l	96
29) Tetrahydrofuran	7.824	42	220027	100.066	ug/l	98
30) Chloroform	7.947	83	158499	21.079	ug/l	93
31) Cyclohexane	8.241	56	133815	19.297	ug/l	98
32) 1,1,1-Trichloroethane	8.147	97	136127	20.590	ug/l	98
36) 1,1-Dichloropropene	8.353	75	105160	19.180	ug/l	98
37) Ethyl Acetate	7.547	43	135954	18.859	ug/l	98
38) Carbon Tetrachloride	8.341	117	114063	20.898	ug/l	95
39) Methylcyclohexane	9.582	83	106499	18.160	ug/l	98
40) Benzene	8.582	78	322165	20.020	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088491.D
 Acq On : 10 Dec 2025 12:03
 Operator : JC\MD
 Sample : VN1210WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 02:04:57 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	74755	20.936	ug/l	98
42) 1,2-Dichloroethane	8.653	62	138256	22.519	ug/l	99
43) Isopropyl Acetate	8.671	43	220654	20.033	ug/l	99
44) Trichloroethene	9.329	130	69870	18.376	ug/l	98
45) 1,2-Dichloropropane	9.600	63	85464	20.729	ug/l	97
46) Dibromomethane	9.688	93	60983	20.726	ug/l	98
47) Bromodichloromethane	9.865	83	129700	21.604	ug/l	98
48) Methyl methacrylate	9.659	41	103591	20.612	ug/l	98
49) 1,4-Dioxane	9.682	88	21469	335.910	ug/l #	92
51) 4-Methyl-2-Pentanone	10.423	43	692727	106.698	ug/l	99
52) Toluene	10.606	92	194573	20.940	ug/l	100
53) t-1,3-Dichloropropene	10.818	75	125115	20.303	ug/l	99
54) cis-1,3-Dichloropropene	10.288	75	132169	20.395	ug/l	99
55) 1,1,2-Trichloroethane	10.994	97	76463	21.269	ug/l	98
56) Ethyl methacrylate	10.859	69	115793	20.391	ug/l	99
57) 1,3-Dichloropropane	11.141	76	134721	20.773	ug/l	98
58) 2-Chloroethyl Vinyl ether	10.141	63	279608	85.407	ug/l	99
59) 2-Hexanone	11.176	43	413196	101.028	ug/l	98
60) Dibromochloromethane	11.335	129	88020	21.478	ug/l	100
61) 1,2-Dibromoethane	11.447	107	77397	21.260	ug/l	98
64) Tetrachloroethene	11.082	164	64200	17.444	ug/l	95
65) Chlorobenzene	11.870	112	204424	19.604	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.935	131	72826	20.707	ug/l	98
67) Ethyl Benzene	11.941	91	350926	19.254	ug/l	98
68) m/p-Xylenes	12.047	106	264504	39.142	ug/l	97
69) o-Xylene	12.376	106	123765	19.211	ug/l	99
70) Styrene	12.388	104	210279	20.102	ug/l	99
71) Bromoform	12.559	173	54485	21.151	ug/l #	97
73) Isopropylbenzene	12.670	105	316021	18.969	ug/l	100
74) N-amyl acetate	12.682	43	98399m	17.343	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.917	83	118148	21.936	ug/l	96
76) 1,2,3-Trichloropropane	12.970	75	111030m	21.038	ug/l	
77) Bromobenzene	12.959	156	77783	20.405	ug/l	96
78) n-propylbenzene	13.012	91	407902	20.013	ug/l	99
79) 2-Chlorotoluene	13.100	91	247457	19.882	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	272542	19.742	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.717	75	34219	18.394	ug/l #	92
82) 4-Chlorotoluene	13.200	91	257740	20.849	ug/l	100
83) tert-Butylbenzene	13.412	119	226056	19.262	ug/l	99
84) 1,2,4-Trimethylbenzene	13.459	105	274739	20.022	ug/l	98
85) sec-Butylbenzene	13.594	105	329448	19.541	ug/l	99
86) p-Isopropyltoluene	13.706	119	272515	19.712	ug/l	99
87) 1,3-Dichlorobenzene	13.711	146	147679	19.901	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	151712	19.518	ug/l	97
89) n-Butylbenzene	14.035	91	255518	19.036	ug/l	97
90) Hexachloroethane	14.311	117	48753	19.304	ug/l	99
91) 1,2-Dichlorobenzene	14.082	146	139106	19.921	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.700	75	24058	18.410	ug/l	95
93) 1,2,4-Trichlorobenzene	15.364	180	75376	18.167	ug/l	99
94) Hexachlorobutadiene	15.470	225	28573	19.164	ug/l	96
95) Naphthalene	15.611	128	252994	17.597	ug/l	98
96) 1,2,3-Trichlorobenzene	15.811	180	70909	17.561	ug/l	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088491.D
Acq On : 10 Dec 2025 12:03
Operator : JC\MD
Sample : VN1210WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 11 02:04:57 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 :
VN1210WBS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025

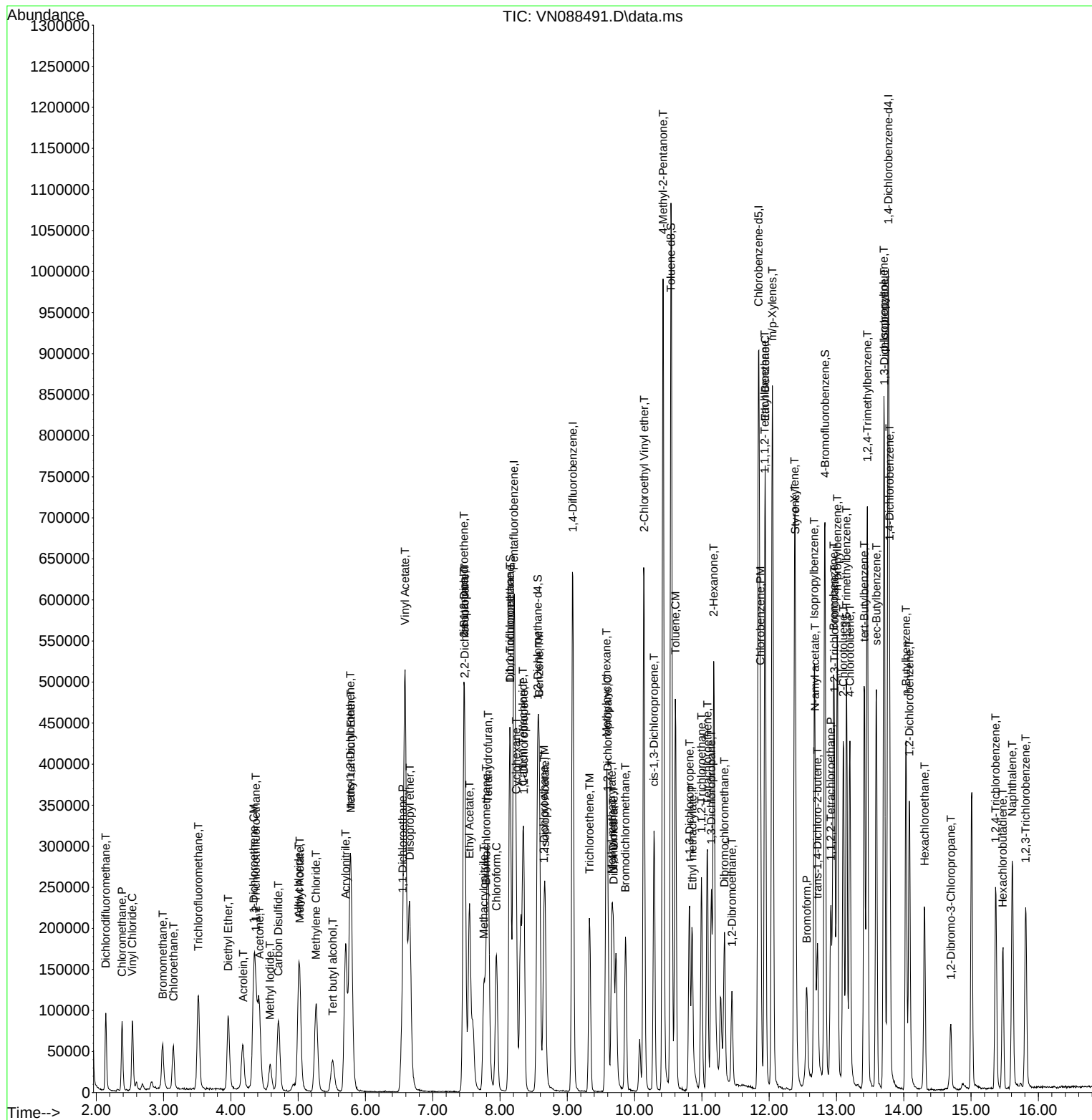
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBS01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088496.D
 Acq On : 10 Dec 2025 13:45
 Operator : JC\MD
 Sample : VN1210WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1210WBSD01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 02:06:59 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	226609	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	440776	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	408174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	199717	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	259490	60.787	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 121.580%			
35) Dibromofluoromethane	8.147	113	169025	55.335	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 110.680%			
50) Toluene-d8	10.541	98	597142	52.541	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.080%			
62) 4-Bromofluorobenzene	12.823	95	210912	54.085	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.160%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.142	85	62439	18.345	ug/l	96
3) Chloromethane	2.383	50	67502	18.465	ug/l	98
4) Vinyl Chloride	2.536	62	67189	18.067	ug/l	99
5) Bromomethane	2.989	94	33391	18.655	ug/l	90
6) Chloroethane	3.148	64	43783	19.024	ug/l	99
7) Trichlorofluoromethane	3.524	101	99969	19.126	ug/l	92
8) Diethyl Ether	3.959	74	38362	19.554	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.377	101	52513	18.872	ug/l	98
10) Methyl Iodide	4.583	142	42947	15.591	ug/l #	93
11) Tert butyl alcohol	5.506	59	60652	88.991	ug/l	99
12) 1,1-Dichloroethene	4.342	96	53154	19.226	ug/l	89
13) Acrolein	4.177	56	52703	80.771	ug/l	100
14) Allyl chloride	5.018	41	97887	19.102	ug/l	98
15) Acrylonitrile	5.706	53	206874	105.204	ug/l	98
16) Acetone	4.418	43	226535	146.735	ug/l	98
17) Carbon Disulfide	4.712	76	161159	17.839	ug/l	99
18) Methyl Acetate	5.018	43	101935	22.181	ug/l	100
19) Methyl tert-butyl Ether	5.789	73	211986	20.466	ug/l	99
20) Methylene Chloride	5.265	84	66444	20.116	ug/l	98
21) trans-1,2-Dichloroethene	5.783	96	58805	19.201	ug/l	98
22) Diisopropyl ether	6.653	45	230841	21.101	ug/l	91
23) Vinyl Acetate	6.589	43	1022501	116.006	ug/l	98
24) 1,1-Dichloroethane	6.559	63	128321	20.712	ug/l	95
25) 2-Butanone	7.465	43	288097	116.079	ug/l	94
26) 2,2-Dichloropropane	7.471	77	105983	19.819	ug/l	99
27) cis-1,2-Dichloroethene	7.471	96	71205	20.006	ug/l	98
28) Bromochloromethane	7.794	49	88987	28.833	ug/l	100
29) Tetrahydrofuran	7.824	42	178261	100.135	ug/l	99
30) Chloroform	7.947	83	131389	21.583	ug/l	99
31) Cyclohexane	8.236	56	96701	17.224	ug/l	96
32) 1,1,1-Trichloroethane	8.153	97	108515	20.273	ug/l	95
36) 1,1-Dichloropropene	8.353	75	82081	17.412	ug/l	98
37) Ethyl Acetate	7.541	43	118034	19.042	ug/l	98
38) Carbon Tetrachloride	8.341	117	87318	18.606	ug/l	99
39) Methylcyclohexane	9.577	83	75150	14.903	ug/l	98
40) Benzene	8.588	78	263185	19.022	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
 Data File : VN088496.D
 Acq On : 10 Dec 2025 13:45
 Operator : JC\MD
 Sample : VN1210WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

MSVOA_N

ClientSampleId :

VN1210WBSD01

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025

Supervised By :Semsettin Yesilyurt 12/11/2025

Quant Time: Dec 11 02:06:59 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	60031	19.554	ug/l	98
42) 1,2-Dichloroethane	8.653	62	112287	21.271	ug/l	98
43) Isopropyl Acetate	8.671	43	178268	18.823	ug/l	99
44) Trichloroethene	9.330	130	56577	17.306	ug/l	99
45) 1,2-Dichloropropane	9.606	63	70358	19.847	ug/l	97
46) Dibromomethane	9.694	93	51460	20.341	ug/l	98
47) Bromodichloromethane	9.865	83	105403	20.419	ug/l	98
48) Methyl methacrylate	9.659	41	80824	18.704	ug/l	100
49) 1,4-Dioxane	9.677	88	19429	353.552	ug/l #	95
51) 4-Methyl-2-Pentanone	10.424	43	567860	101.725	ug/l	100
52) Toluene	10.606	92	156589	19.600	ug/l	98
53) t-1,3-Dichloropropene	10.818	75	99689	18.815	ug/l	100
54) cis-1,3-Dichloropropene	10.288	75	105841	18.995	ug/l	98
55) 1,1,2-Trichloroethane	10.994	97	64166	20.759	ug/l	96
56) Ethyl methacrylate	10.853	69	91116	18.661	ug/l	98
57) 1,3-Dichloropropane	11.141	76	112040	20.092	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.141	63	126034	44.774	ug/l	98
59) 2-Hexanone	11.177	43	340552	96.841	ug/l	99
60) Dibromochloromethane	11.329	129	71113	20.181	ug/l	100
61) 1,2-Dibromoethane	11.447	107	63175	20.183	ug/l	99
64) Tetrachloroethene	11.082	164	46267	14.298	ug/l	92
65) Chlorobenzene	11.865	112	165806	18.085	ug/l	94
66) 1,1,1,2-Tetrachloroethane	11.935	131	59129	19.122	ug/l	98
67) Ethyl Benzene	11.941	91	276056	17.227	ug/l	98
68) m/p-Xylenes	12.047	106	205689	34.620	ug/l	98
69) o-Xylene	12.376	106	98717	17.428	ug/l	96
70) Styrene	12.388	104	166487	18.102	ug/l	99
71) Bromoform	12.559	173	42890	18.937	ug/l #	99
73) Isopropylbenzene	12.676	105	237264	16.067	ug/l	99
74) N-amyl acetate	12.688	43	99912m	19.867	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.918	83	92597	19.397	ug/l	98
76) 1,2,3-Trichloropropane	12.971	75	91617m	19.586	ug/l	
77) Bromobenzene	12.959	156	62228	18.418	ug/l	98
78) n-propylbenzene	13.012	91	308833	17.095	ug/l	99
79) 2-Chlorotoluene	13.100	91	194938	17.670	ug/l	98
80) 1,3,5-Trimethylbenzene	13.147	105	208192	17.014	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.718	75	27006	16.379	ug/l #	92
82) 4-Chlorotoluene	13.200	91	202428	18.474	ug/l	99
83) tert-Butylbenzene	13.412	119	166323	15.990	ug/l	98
84) 1,2,4-Trimethylbenzene	13.459	105	215051	17.682	ug/l	97
85) sec-Butylbenzene	13.594	105	242366	16.219	ug/l	99
86) p-Isopropyltoluene	13.706	119	198002	16.159	ug/l	99
87) 1,3-Dichlorobenzene	13.712	146	117572	17.876	ug/l	99
88) 1,4-Dichlorobenzene	13.788	146	121032	17.568	ug/l	97
89) n-Butylbenzene	14.035	91	184645	15.519	ug/l	99
90) Hexachloroethane	14.306	117	38861	17.360	ug/l	99
91) 1,2-Dichlorobenzene	14.082	146	111046	17.942	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.700	75	20968	18.103	ug/l	93
93) 1,2,4-Trichlorobenzene	15.365	180	57086	15.523	ug/l	96
94) Hexachlorobutadiene	15.470	225	19943	15.091	ug/l	94
95) Naphthalene	15.617	128	195728	15.359	ug/l	100
96) 1,2,3-Trichlorobenzene	15.812	180	56108	15.677	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121025\
Data File : VN088496.D
Acq On : 10 Dec 2025 13:45
Operator : JC\MD
Sample : VN1210WBSD01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Dec 11 02:06:59 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 :
VN1210WBSD01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025

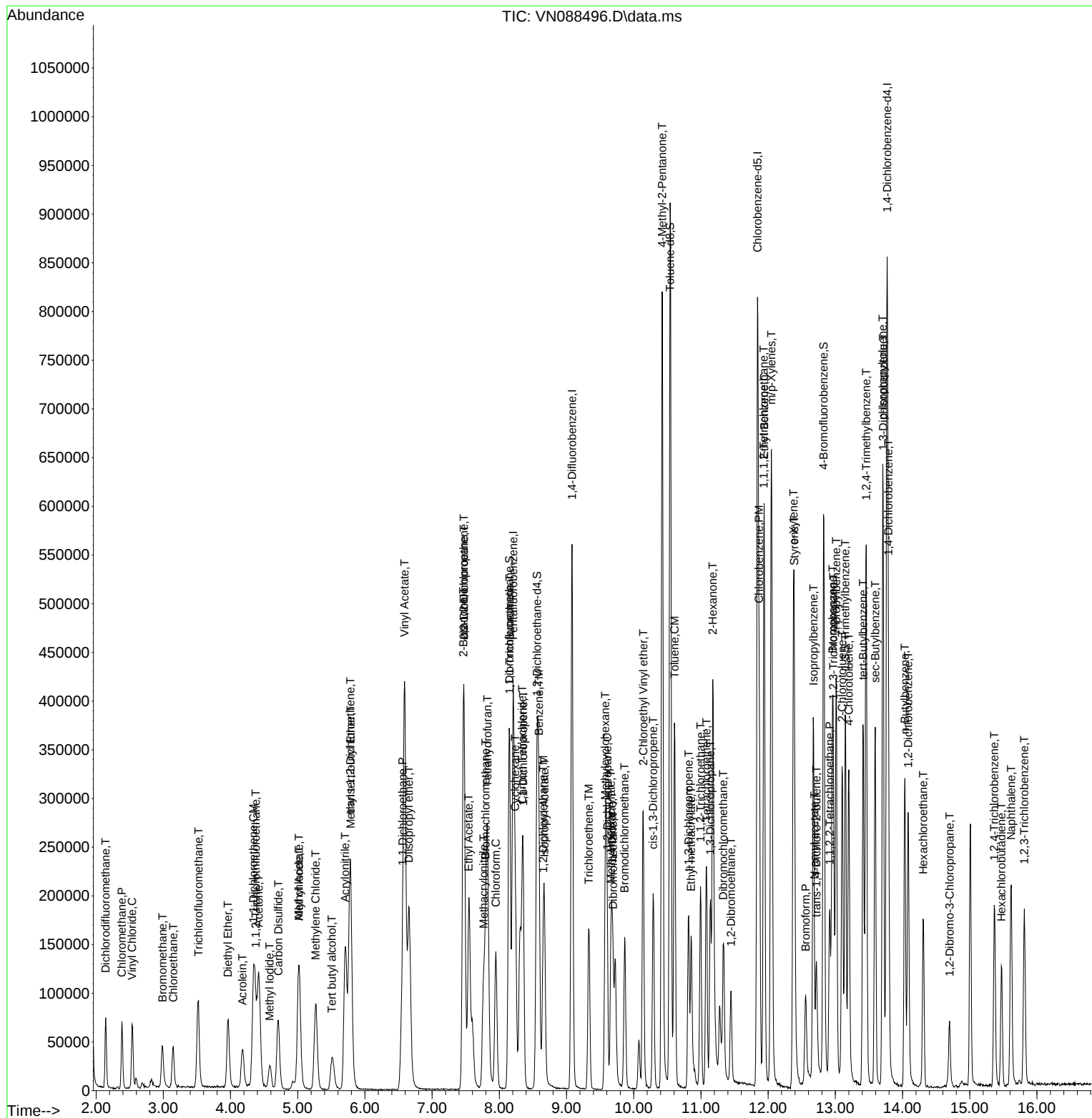
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_N
ClientSampleId :
VN1210WBSD01

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/11/2025



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:	VN121025	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN088487.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 10:00:31 AM	sam	12/11/2025 12:32:28 PM	Peak Integrated by Software
VSTDCCC050	VN088487.D	N-amyl acetate	MMDadoda	12/11/2025 10:00:31 AM	sam	12/11/2025 12:32:28 PM	Peak Integrated by Software
VN1210WBS01	VN088491.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 10:00:38 AM	sam	12/11/2025 12:32:43 PM	Peak Integrated by Software
VN1210WBS01	VN088491.D	N-amyl acetate	MMDadoda	12/11/2025 10:00:38 AM	sam	12/11/2025 12:32:43 PM	Peak Integrated by Software
VN1210WBSD0 1	VN088496.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 10:00:43 AM	sam	12/11/2025 12:32:38 PM	Peak Integrated by Software
VN1210WBSD0 1	VN088496.D	N-amyl acetate	MMDadoda	12/11/2025 10:00:43 AM	sam	12/11/2025 12:32:38 PM	Peak Integrated by Software
VSTDCCC050	VN088514.D	1,2,3-Trichloropropane	MMDadoda	12/11/2025 10:00:46 AM	sam	12/11/2025 12:32:49 PM	Peak Integrated by Software
VSTDCCC050	VN088514.D	N-amyl acetate	MMDadoda	12/11/2025 10:00:46 AM	sam	12/11/2025 12:32:49 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/QCBatch ID # VN121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:46:28 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:33:13 PM
SubDirectory	VN121025	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136601		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136602,VP136603		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN088486.D	10 Dec 2025 09:29	JC\MD	Ok
2	VSTDCCC050	VN088487.D	10 Dec 2025 10:01	JC\MD	Ok,M
3	VN1210MBL01	VN088488.D	10 Dec 2025 10:36	JC\MD	Ok
4	VN1210WBL01	VN088489.D	10 Dec 2025 10:57	JC\MD	Ok
5	VN1210MBS01	VN088490.D	10 Dec 2025 11:30	JC\MD	Ok,M
6	VN1210WBS01	VN088491.D	10 Dec 2025 12:03	JC\MD	Ok,M
7	Q3813-01	VN088492.D	10 Dec 2025 12:23	JC\MD	Ok
8	Q3813-03	VN088493.D	10 Dec 2025 12:44	JC\MD	Ok
9	Q3813-04	VN088494.D	10 Dec 2025 13:04	JC\MD	Ok
10	Q3770-01DL	VN088495.D	10 Dec 2025 13:25	JC\MD	Ok
11	VN1210WBSD01	VN088496.D	10 Dec 2025 13:45	JC\MD	Ok,M
12	Q3809-15	VN088497.D	10 Dec 2025 14:06	JC\MD	ReRun
13	Q3814-02	VN088498.D	10 Dec 2025 14:27	JC\MD	Ok
14	Q3814-04	VN088499.D	10 Dec 2025 14:47	JC\MD	Ok
15	Q3814-06	VN088500.D	10 Dec 2025 15:08	JC\MD	Ok
16	Q3814-08	VN088501.D	10 Dec 2025 15:29	JC\MD	Ok
17	Q3814-10	VN088502.D	10 Dec 2025 15:50	JC\MD	Ok
18	Q3814-12	VN088503.D	10 Dec 2025 16:10	JC\MD	Ok
19	Q3814-14	VN088504.D	10 Dec 2025 16:31	JC\MD	Ok
20	Q3814-16	VN088505.D	10 Dec 2025 16:52	JC\MD	Ok
21	Q3815-02	VN088506.D	10 Dec 2025 17:13	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN121025

Review By	Maresh Dadoda	Review On	12/11/2025 11:46:28 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:33:13 PM
SubDirectory	VN121025	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136601		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136602,VP136603		

22	Q3826-02	VN088507.D	10 Dec 2025 17:34	JC\MD	Ok
23	Q3826-04	VN088508.D	10 Dec 2025 17:54	JC\MD	Ok
24	Q3826-06	VN088509.D	10 Dec 2025 18:15	JC\MD	Ok
25	Q3826-08	VN088510.D	10 Dec 2025 18:36	JC\MD	Ok
26	Q3826-10	VN088511.D	10 Dec 2025 18:57	JC\MD	Ok
27	Q3826-12	VN088512.D	10 Dec 2025 19:18	JC\MD	Ok
28	Q3826-14	VN088513.D	10 Dec 2025 19:38	JC\MD	Ok
29	VSTDCCC050	VN088514.D	10 Dec 2025 19:59	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#	SampleID	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 # VN121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:46:28 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:33:13 PM
SubDirectory	VN121025	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136601		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136602,VP136603		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN088486.D	10 Dec 2025 09:29		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN088487.D	10 Dec 2025 10:01	CCC failed High For Com.#42	JC\MD	Ok,M
3	VN1210MBL01	VN1210MBL01	VN088488.D	10 Dec 2025 10:36		JC\MD	Ok
4	VN1210WBL01	VN1210WBL01	VN088489.D	10 Dec 2025 10:57		JC\MD	Ok
5	VN1210MBS01	VN1210MBS01	VN088490.D	10 Dec 2025 11:30		JC\MD	Ok,M
6	VN1210WBS01	VN1210WBS01	VN088491.D	10 Dec 2025 12:03		JC\MD	Ok,M
7	Q3813-01	BR-04DR-451-120825	VN088492.D	10 Dec 2025 12:23	vial A pH<2 CCC failed high	JC\MD	Ok
8	Q3813-03	EB01-120825	VN088493.D	10 Dec 2025 12:44	vial A pH<2 EB	JC\MD	Ok
9	Q3813-04	TB01-120825	VN088494.D	10 Dec 2025 13:04	vial A pH<2 TB	JC\MD	Ok
10	Q3770-01DL	4207DL	VN088495.D	10 Dec 2025 13:25		JC\MD	Ok
11	VN1210WBSD01	VN1210WBSD01	VN088496.D	10 Dec 2025 13:45	BSD failed Low for com.#73	JC\MD	Ok,M
12	Q3809-15	TRIP	VN088497.D	10 Dec 2025 14:06	vial A pH<2 TB;BSD Failed Low	JC\MD	ReRun
13	Q3814-02	TP-5	VN088498.D	10 Dec 2025 14:27	vial A pH#5.0	JC\MD	Ok
14	Q3814-04	TP-6	VN088499.D	10 Dec 2025 14:47	vial A pH#5.0	JC\MD	Ok
15	Q3814-06	TP-7	VN088500.D	10 Dec 2025 15:08	vial A pH#5.0	JC\MD	Ok
16	Q3814-08	TP-8	VN088501.D	10 Dec 2025 15:29	vial A pH#5.0	JC\MD	Ok
17	Q3814-10	TP-9	VN088502.D	10 Dec 2025 15:50	vial A pH#5.0	JC\MD	Ok
18	Q3814-12	TP-12	VN088503.D	10 Dec 2025 16:10	vial A pH#5.0	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN121025

Review By	Maresh Dadoda	Review On	12/11/2025 11:46:28 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/11/2025 12:33:13 PM
SubDirectory	VN121025	HP Acquire Method	HP Processing Method 82N112425W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136601		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136602,VP136603		

19	Q3814-14	TP-10	VN088504.D	10 Dec 2025 16:31	vial A pH#5.0	JC\MD	Ok
20	Q3814-16	TP-4	VN088505.D	10 Dec 2025 16:52	vial A pH#5.0	JC\MD	Ok
21	Q3815-02	RE	VN088506.D	10 Dec 2025 17:13	vial A pH#5.0	JC\MD	Ok
22	Q3826-02	TP-13	VN088507.D	10 Dec 2025 17:34	vial A pH#5.0	JC\MD	Ok
23	Q3826-04	TP-14	VN088508.D	10 Dec 2025 17:54	vial A pH#5.0	JC\MD	Ok
24	Q3826-06	TP-15	VN088509.D	10 Dec 2025 18:15	vial A pH#5.0	JC\MD	Ok
25	Q3826-08	TP-11	VN088510.D	10 Dec 2025 18:36	vial A pH#5.0	JC\MD	Ok
26	Q3826-10	TP-1	VN088511.D	10 Dec 2025 18:57	vial A pH#5.0	JC\MD	Ok
27	Q3826-12	TP-2	VN088512.D	10 Dec 2025 19:18	vial A pH#5.0 Surrogate fail	JC\MD	Ok
28	Q3826-14	TP-3	VN088513.D	10 Dec 2025 19:38	vial A pH#5.0	JC\MD	Ok
29	VSTDCCC050	VSTDCCC050EC	VN088514.D	10 Dec 2025 19:59		JC\MD	Ok,M

M : Manual Integration

A
B
C
D
E
F
G
H
I
J
K

LAB CHRONICLE

OrderID:	Q3813	OrderDate:	12/8/2025 4:06:00 PM
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
Q3813-01	BR-04DR-451-120825	Water	VOCMS Group3	8260-Low	12/08/25		12/10/25	12/08/25
Q3813-02	BR-04DR-451-120825 -SIM	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25
Q3813-03	EB01-120825	Water	VOCMS Group3 VOC-SIM	8260-Low SFAM_VOCSI M	12/08/25		12/10/25 12/10/25	12/08/25
Q3813-04	TB01-120825	Water	VOCMS Group3 VOC-SIM	8260-Low SFAM_VOCSI M	12/08/25		12/10/25 12/10/25	12/08/25
Q3813-05	VHBLK001	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121225\
 Data File : VX048862.D
 Acq On : 12 Dec 2025 17:52
 Operator : JC/MD
 Sample : Q3813-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BR-04DR-451-120825

Quant Time: Dec 12 22:17:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.537	168	113879	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.745	114	237003	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	261744	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	136774	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.940	65	93647	61.269	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 122.540%#	
35) Dibromofluoromethane	5.373	113	80851	49.545	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.100%	
50) Toluene-d8	8.634	98	269212	47.064	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 94.120%	
62) 4-Bromofluorobenzene	11.061	95	117573	59.606	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 119.220%	

Target Compounds

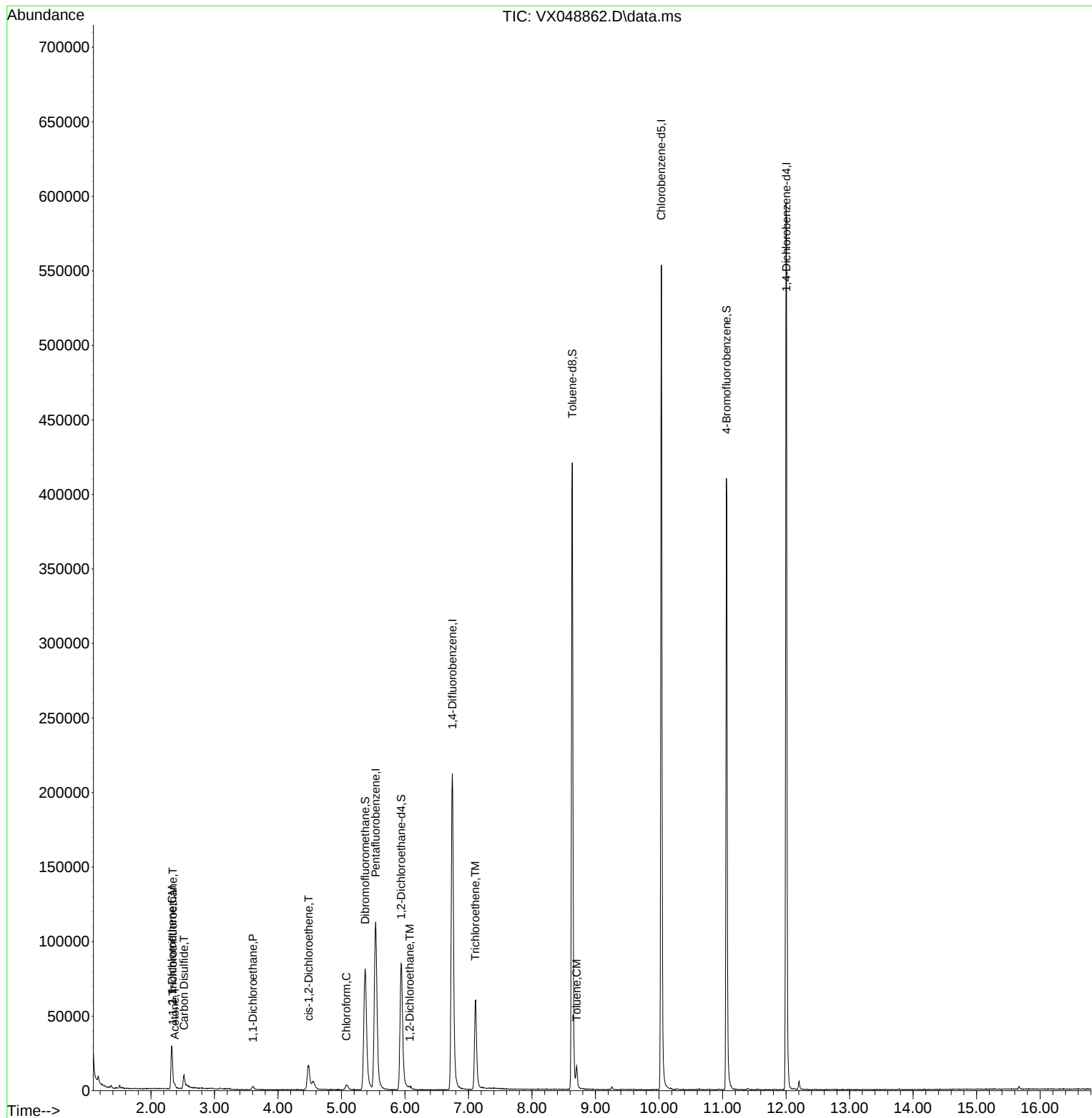
						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	1400	1.081	ug/l	97
12) 1,1-Dichloroethene	2.331	96	10542	7.972	ug/l	86
16) Acetone	2.373	43	2724	4.655	ug/l	92
17) Carbon Disulfide	2.520	76	8089	2.106	ug/l	100
24) 1,1-Dichloroethane	3.605	63	3024	1.307	ug/l #	86
27) cis-1,2-Dichloroethene	4.483	96	12030	7.899	ug/l	95
30) Chloroform	5.074	83	4558	1.838	ug/l	86
42) 1,2-Dichloroethane	6.074	62	2118	0.903	ug/l	80
44) Trichloroethene	7.104	130	25638	14.830	ug/l	99
52) Toluene	8.702	92	5219	1.306	ug/l	97

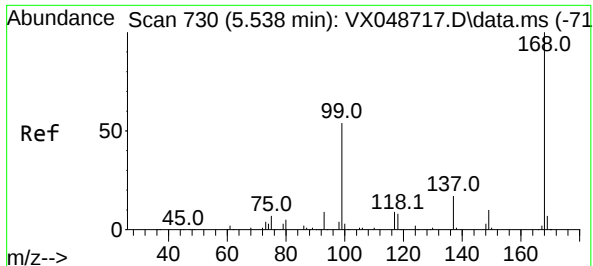
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121225\
Data File : VX048862.D
Acq On : 12 Dec 2025 17:52
Operator : JC/MD
Sample : Q3813-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BR-04DR-451-120825

Quant Time: Dec 12 22:17:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
Quant Title : SW846 8260
QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

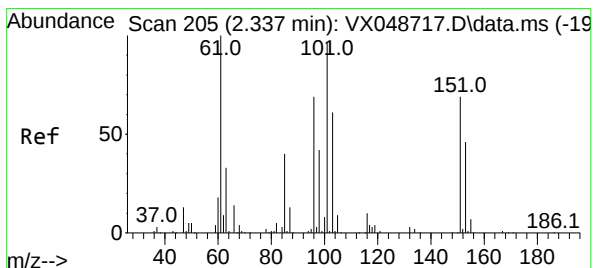
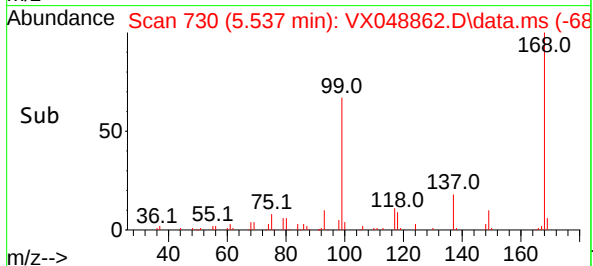
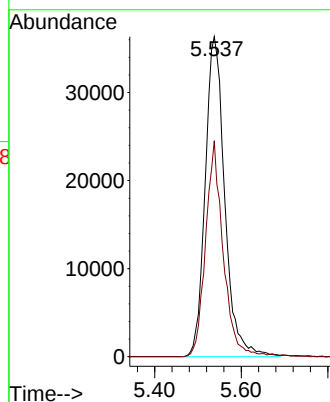
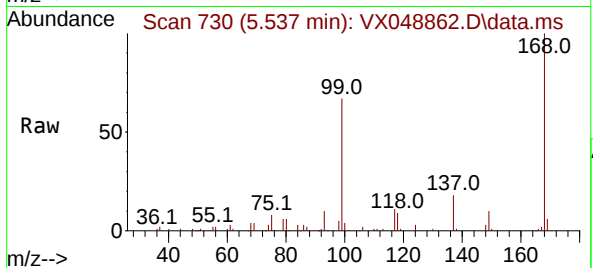




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

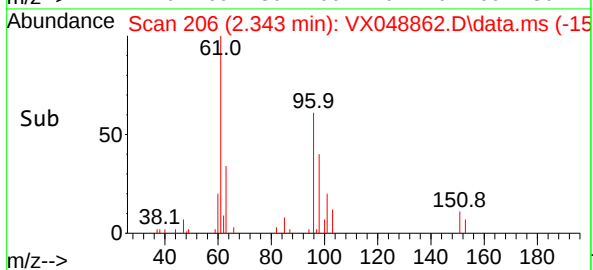
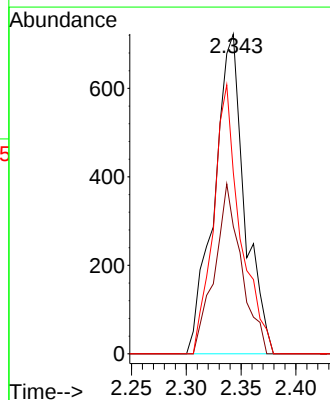
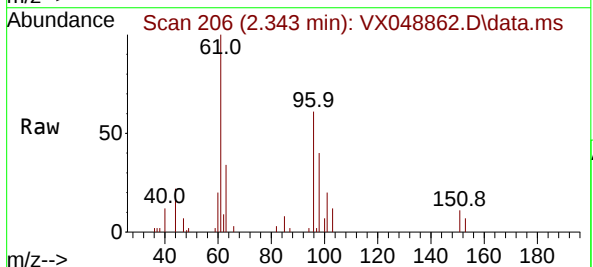
Instrument :
MSVOA_X
ClientSampleId :
BR-04DR-451-120825

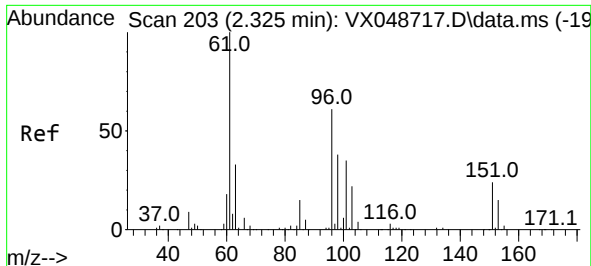
Tgt Ion:168 Resp: 113879
Ion Ratio Lower Upper
168 100
99 67.5 44.2 66.4#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.081 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Tgt Ion:101 Resp: 1400
Ion Ratio Lower Upper
101 100
85 46.9 34.2 51.2
151 74.1 60.2 90.4





#12

1,1-Dichloroethene

Concen: 7.972 ug/l

RT: 2.331 min Scan# 203

Delta R.T. 0.006 min

Lab File: VX048862.D

Acq: 12 Dec 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

BR-04DR-451-120825

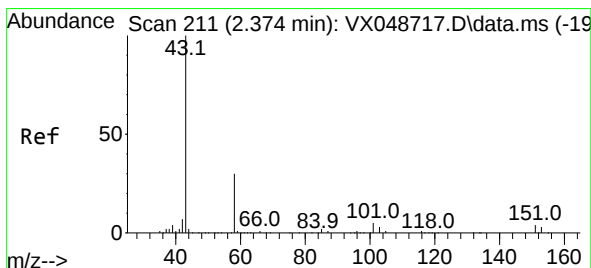
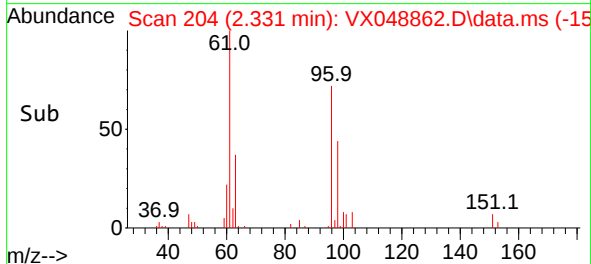
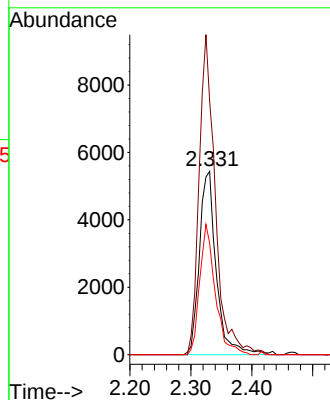
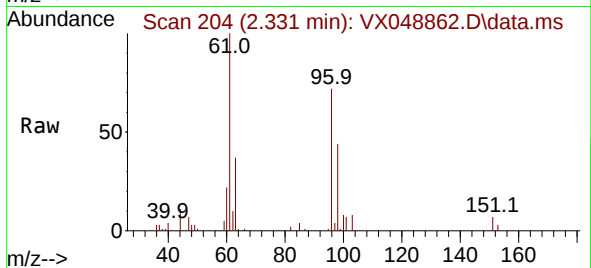
Tgt Ion: 96 Resp: 10542

Ion Ratio Lower Upper

96 100

61 138.1 130.7 196.1

98 60.8 49.8 74.8



#16

Acetone

Concen: 4.655 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.000 min

Lab File: VX048862.D

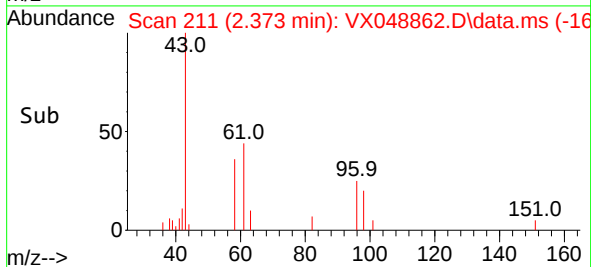
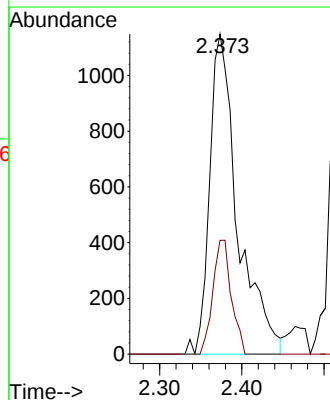
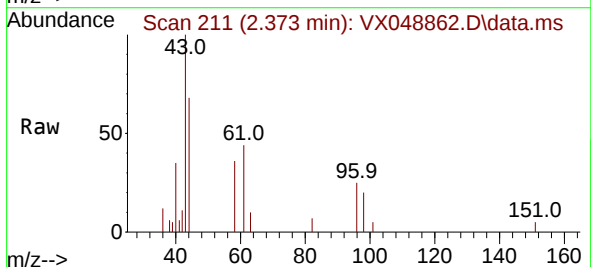
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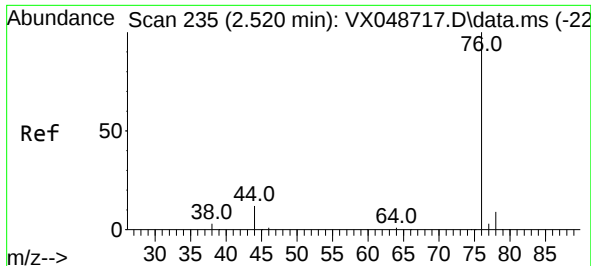
Tgt Ion: 43 Resp: 2724

Ion Ratio Lower Upper

43 100

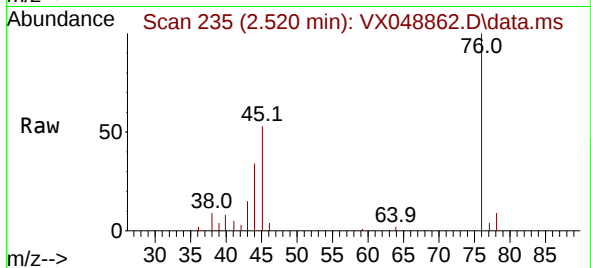
58 35.5 25.0 37.4



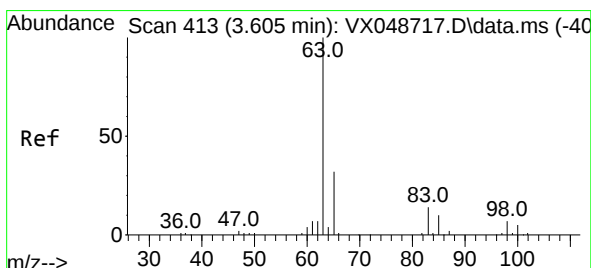
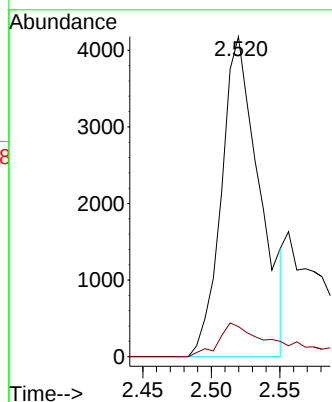
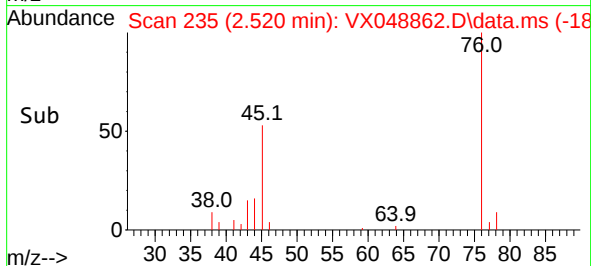


#17
Carbon Disulfide
Concen: 2.106 ug/l
RT: 2.520 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
BR-04DR-451-120825

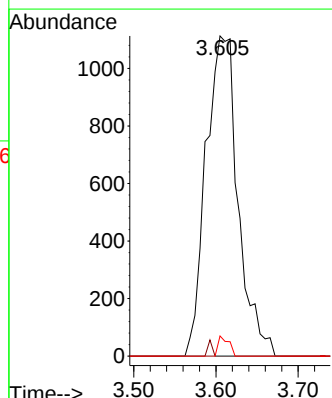
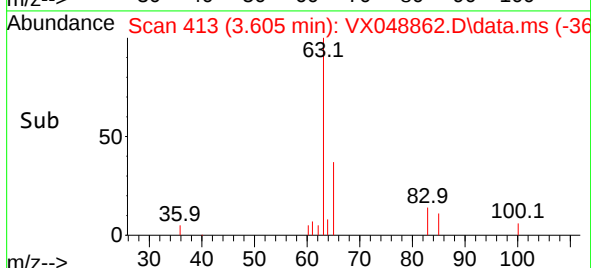
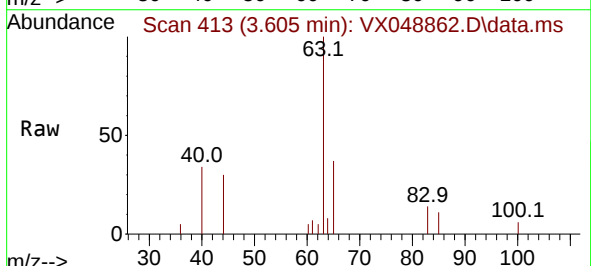


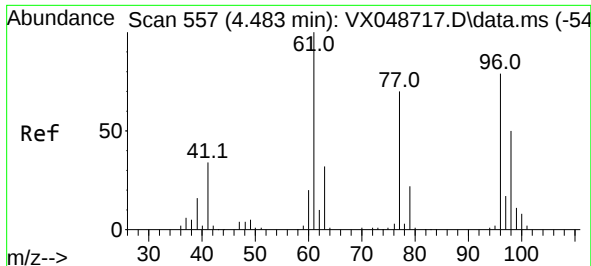
Tgt Ion: 76 Resp: 8089
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.2



#24
1,1-Dichloroethane
Concen: 1.307 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Tgt Ion: 63 Resp: 3024
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.6#
100 6.3 2.5 7.4

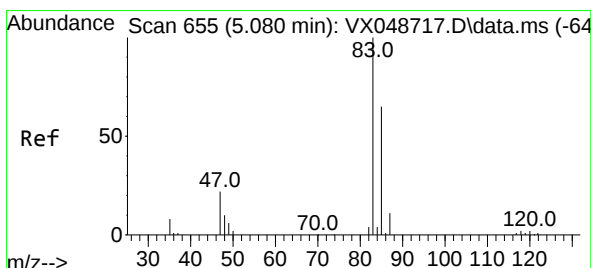
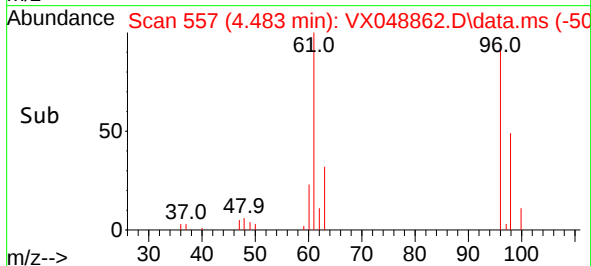
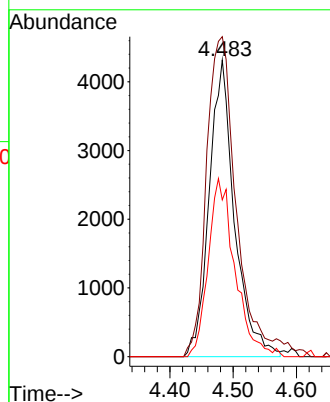
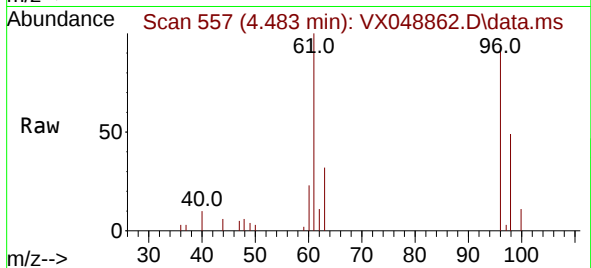




#27
 cis-1,2-Dichloroethene
 Concen: 7.899 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

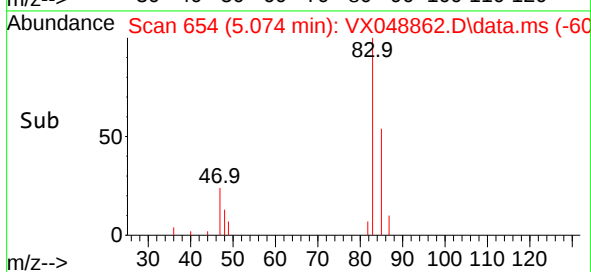
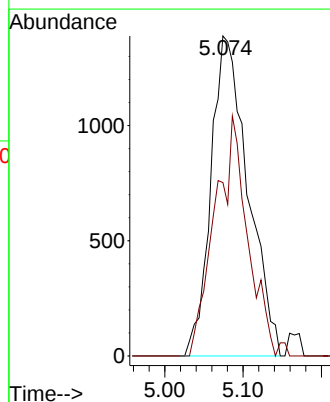
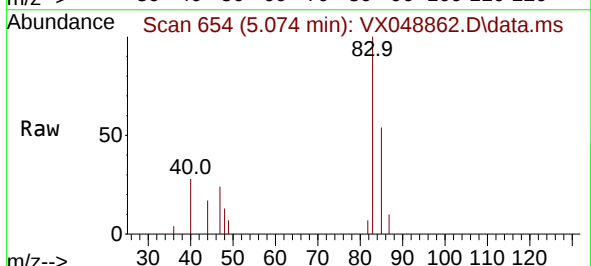
Instrument :
 MSVOA_X
 ClientSampleId :
 BR-04DR-451-120825

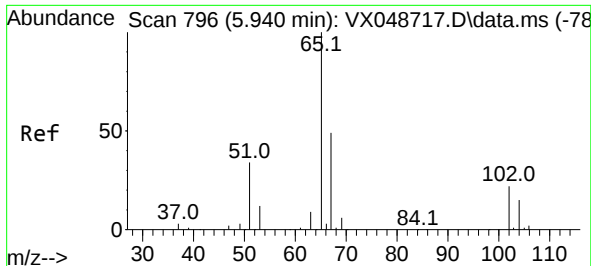
Tgt Ion: 96	Resp: 12030
Ion Ratio	Lower Upper
96 100	
61 128.3	0.0 271.0
98 63.4	0.0 130.2



#30
 Chloroform
 Concen: 1.838 ug/l
 RT: 5.074 min Scan# 654
 Delta R.T. -0.006 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

Tgt Ion: 83	Resp: 4558
Ion Ratio	Lower Upper
83 100	
85 54.2	52.1 78.1

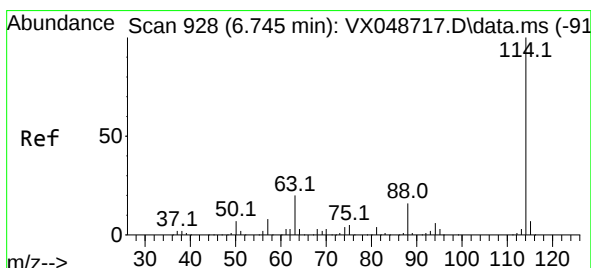
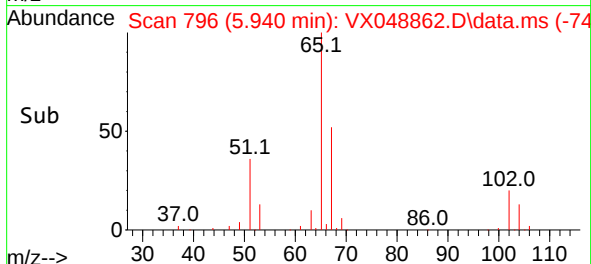
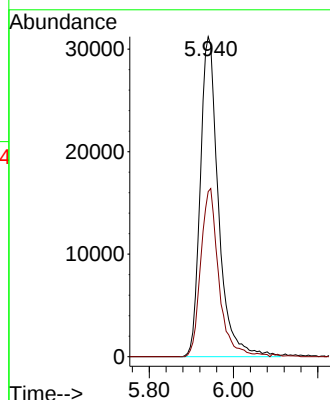
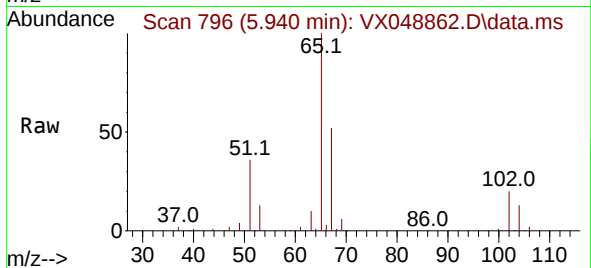




#33
 1,2-Dichloroethane-d4
 Concen: 61.269 ug/l
 RT: 5.940 min Scan# 796
 Delta R.T. -0.000 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

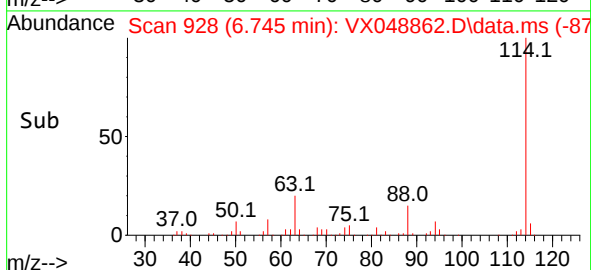
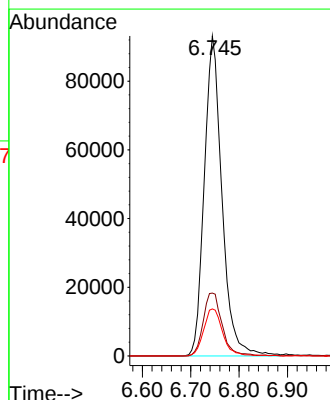
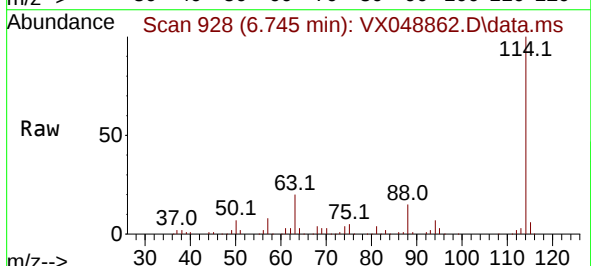
Instrument :
 MSVOA_X
 ClientSampleId :
 BR-04DR-451-120825

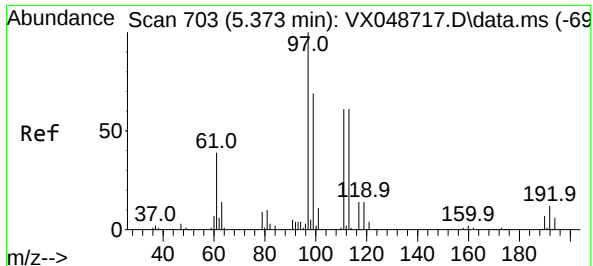
Tgt Ion: 65 Resp: 93647
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

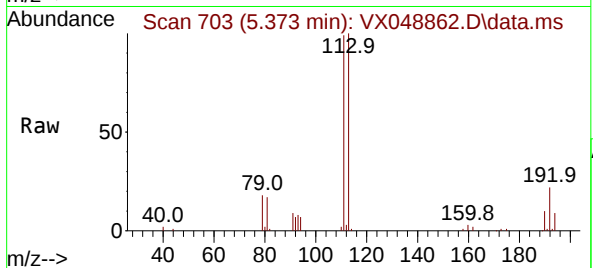
Tgt Ion: 114 Resp: 237003
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.0
 88 14.7 0.0 31.8



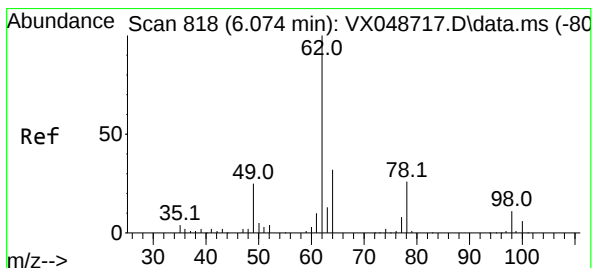
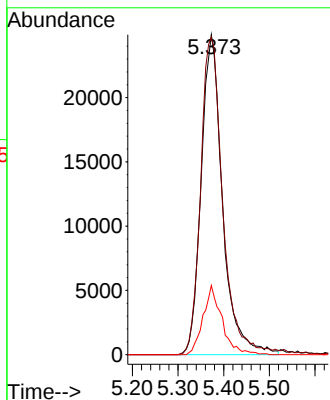
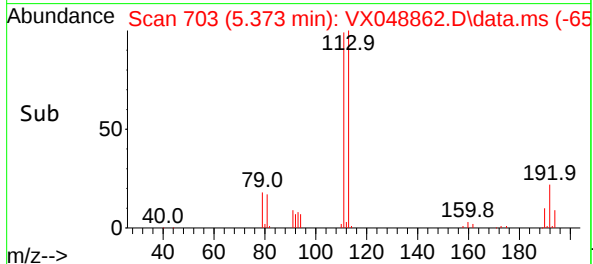


#35
Dibromofluoromethane
Concen: 49.545 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
BR-04DR-451-120825

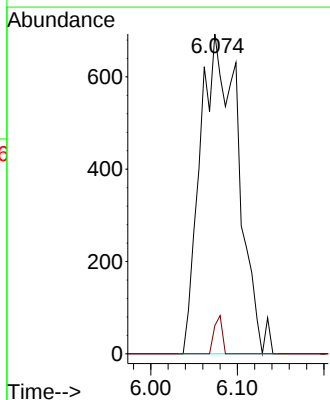
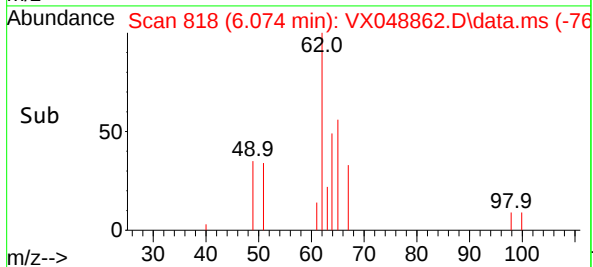
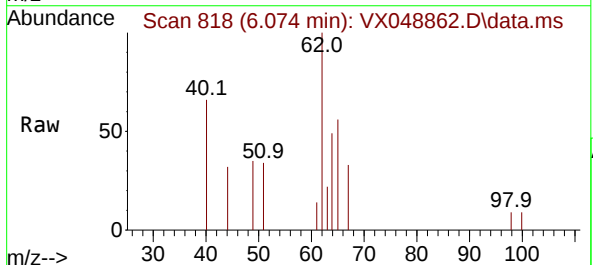


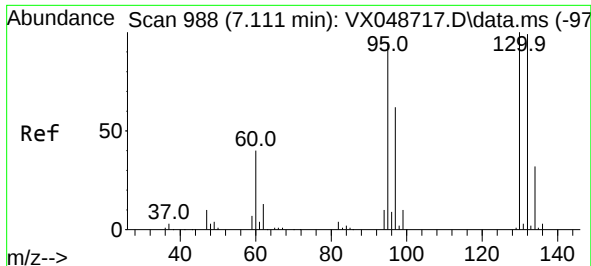
Tgt Ion:113 Resp: 80851
Ion Ratio Lower Upper
113 100
111 103.2 79.5 119.3
192 19.2 16.1 24.1



#42
1,2-Dichloroethane
Concen: 0.903 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Tgt Ion: 62 Resp: 2118
Ion Ratio Lower Upper
62 100
98 2.5 0.0 20.2

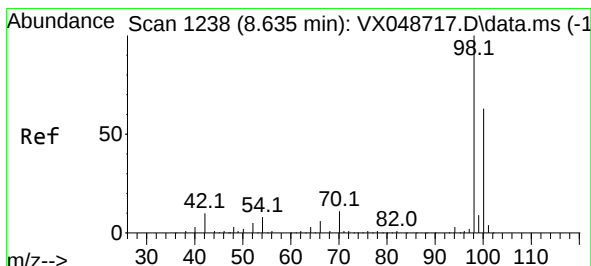
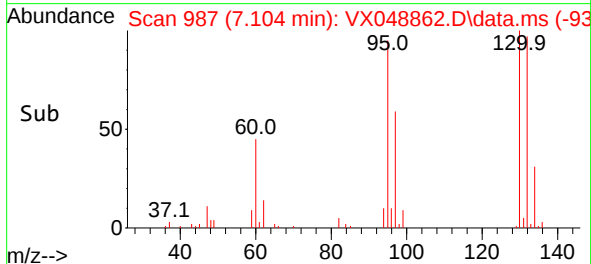
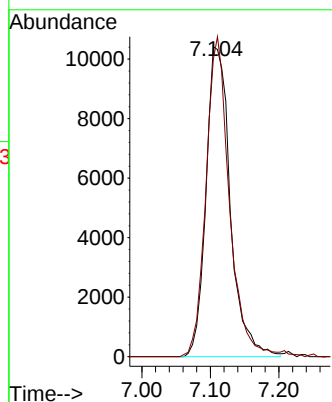
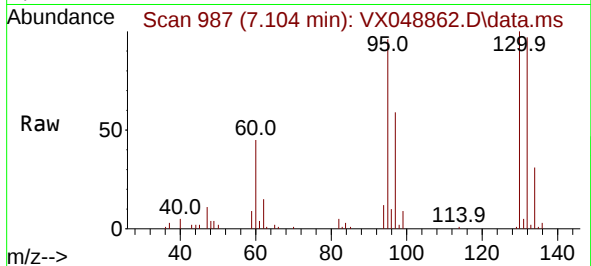




#44
 Trichloroethene
 Concen: 14.830 ug/l
 RT: 7.104 min Scan# 91
 Delta R.T. -0.006 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

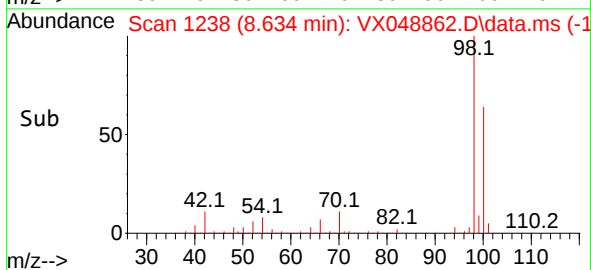
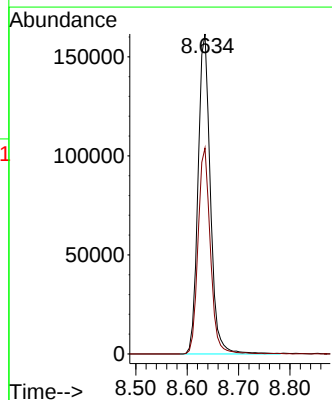
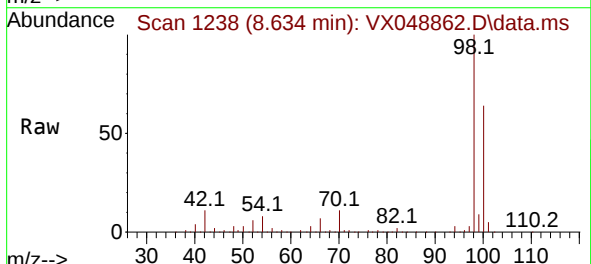
Instrument :
 MSVOA_X
 ClientSampleId :
 BR-04DR-451-120825

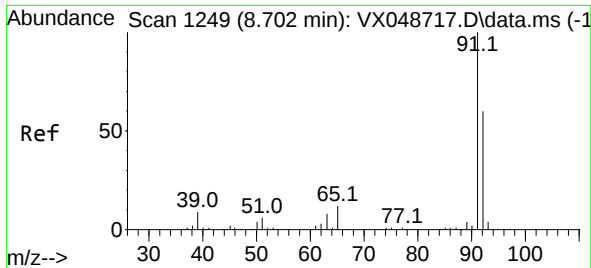
Tgt Ion:130 Resp: 25638
 Ion Ratio Lower Upper
 130 100
 95 95.9 0.0 189.6



#50
 Toluene-d8
 Concen: 47.064 ug/l
 RT: 8.634 min Scan# 1238
 Delta R.T. -0.000 min
 Lab File: VX048862.D
 Acq: 12 Dec 2025 17:52

Tgt Ion: 98 Resp: 269212
 Ion Ratio Lower Upper
 98 100
 100 64.2 53.4 80.0

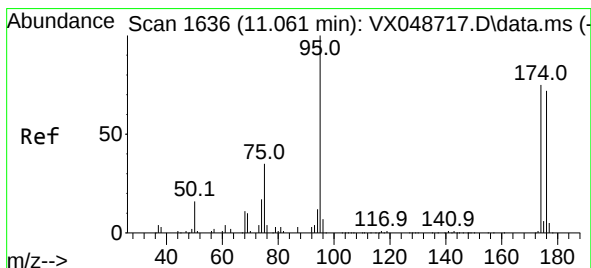
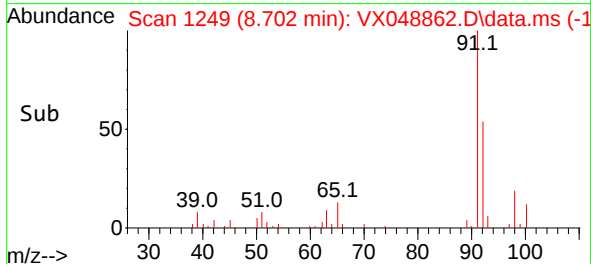
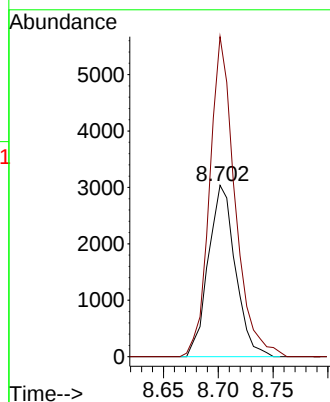
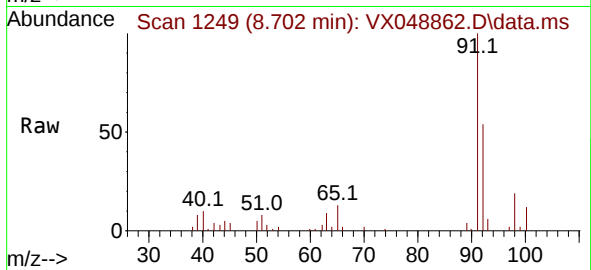




#52
Toluene
Concen: 1.306 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

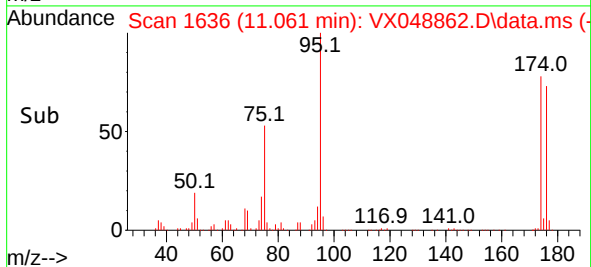
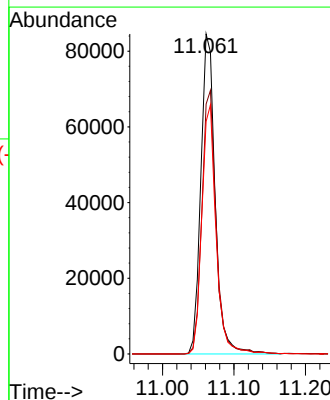
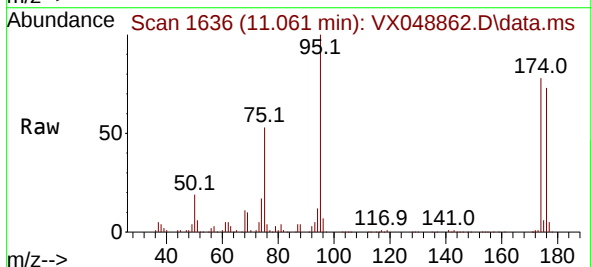
Instrument : MSVOA_X
ClientSampleId : BR-04DR-451-120825

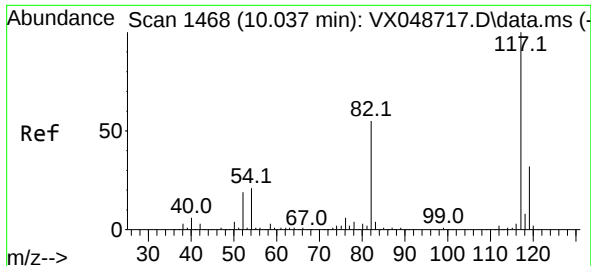
Tgt Ion: 92 Resp: 5219
Ion Ratio Lower Upper
92 100
91 175.1 136.3 204.5



#62
4-Bromofluorobenzene
Concen: 59.606 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Tgt Ion: 95 Resp: 117573
Ion Ratio Lower Upper
95 100
174 82.8 0.0 157.8
176 77.6 0.0 154.0

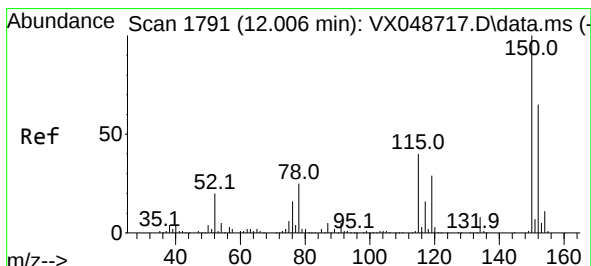
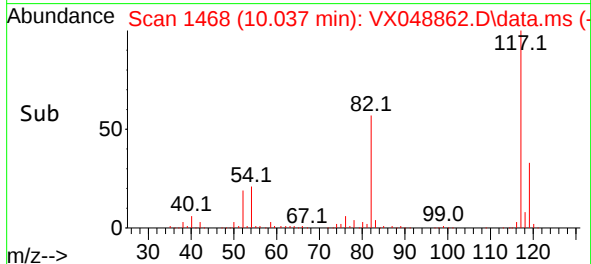
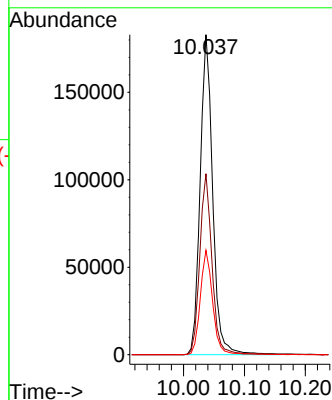
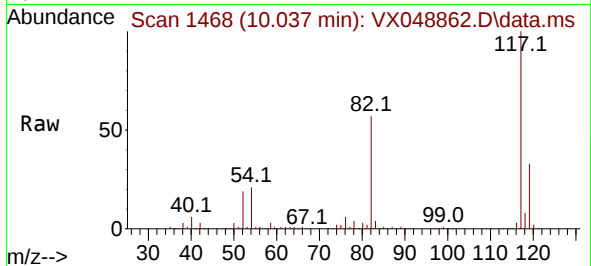




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

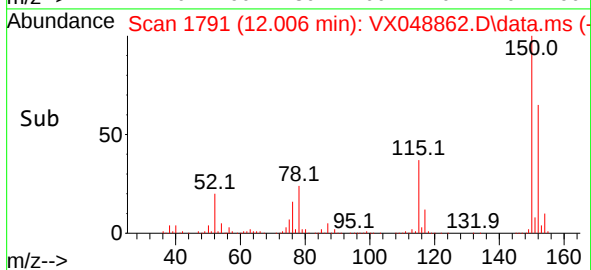
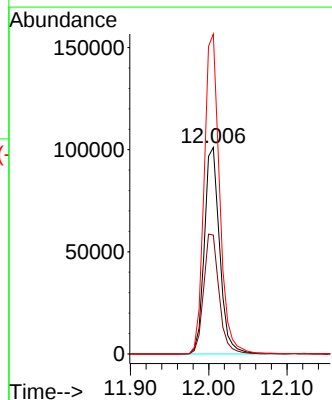
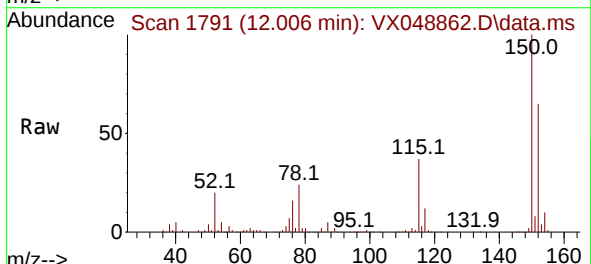
Instrument :
MSVOA_X
ClientSampleId :
BR-04DR-451-120825

Tgt Ion:	117	Resp:	261744
Ion Ratio	Lower	Upper	
117	100		
82	56.5	44.1	66.1
119	32.6	25.2	37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048862.D
Acq: 12 Dec 2025 17:52

Tgt Ion:	152	Resp:	136774
Ion Ratio	Lower	Upper	
152	100		
115	58.7	42.1	126.4
150	156.8	0.0	347.8





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

Hit Summary Sheet
SW-846

SDG No.: Q3813
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: BR-04DR-451-120825-SIM
 Lab Sample ID: Q3813-02
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 13:01	VV121025
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.53			40 - 130	106.6%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.49			70 - 130	97.4%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.40			60 - 140	80.4%	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	0.49			65 - 120	98.8%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6040							
540-36-3	1,4-Difluorobenzene	6210							
3855-82-1	1,4-Dichlorobenzene-d4	3060							

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: EB01-120825
 Lab Sample ID: Q3813-03
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 13:29	VV121025
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.45			40 - 130	89.8%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.42			70 - 130	83.8%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.41			60 - 140	81%	SPK: 0.5		
2037-26-5	Toluene-d8	0.46			70 - 130	92%	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	6790							
540-36-3	1,4-Difluorobenzene	7220							
3855-82-1	1,4-Dichlorobenzene-d4	3680							

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: TB01-120825
 Lab Sample ID: Q3813-04
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 13:51	VV121025
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.52			40 - 130	103.2%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.43			70 - 130	86.2%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.40			60 - 140	80.6%	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	0.54			65 - 120	107%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6660							
540-36-3	1,4-Difluorobenzene	6640							
3855-82-1	1,4-Dichlorobenzene-d4	3490							

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: VHBLK001
 Lab Sample ID: Q3813-05
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected: 12/08/25
 Date Received: 12/08/25
 SDG No.: Q3813
 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	12/10/25 14:54	VV121025
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.52			40 - 130	104.6%	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	0.41			60 - 140	81.2%	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	0.54			65 - 120	107.4%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	6690							
540-36-3	1,4-Difluorobenzene	6680							
3855-82-1	1,4-Dichlorobenzene-d4	3530							

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



QC SUMMARY

Surrogate Summary

SDG No.: **Q3813**

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

Analytical Method: **SWSFAM_VOCSIM**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3813-02	BR-04DR-451-120825-SIM	Vinyl chloride-d3	0.5	0.53	107		40	130
		1,2-Dichloroethane-d4	0.5	0.49	97		70	130
		1,2-Dichloropropane-d6	0.5	0.40	80		60	140
		Toluene-d8	0.5	0.48	95		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.49	99		65	120
Q3813-03	EB01-120825	Vinyl chloride-d3	0.5	0.45	90		40	130
		1,2-Dichloroethane-d4	0.5	0.42	84		70	130
		1,2-Dichloropropane-d6	0.5	0.41	81		60	140
		Toluene-d8	0.5	0.46	92		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.53	106		65	120
Q3813-04	TB01-120825	Vinyl chloride-d3	0.5	0.52	103		40	130
		1,2-Dichloroethane-d4	0.5	0.43	86		70	130
		1,2-Dichloropropane-d6	0.5	0.40	81		60	140
		Toluene-d8	0.5	0.44	89		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.54	107		65	120
Q3813-05	VHBLK001	Vinyl chloride-d3	0.5	0.52	105		40	130
		1,2-Dichloroethane-d4	0.5	0.45	90		70	130
		1,2-Dichloropropane-d6	0.5	0.41	81		60	140
		Toluene-d8	0.5	0.45	89		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.54	107		65	120
VV1210WBL01	VBLK239	Vinyl chloride-d3	0.5	0.58	116		40	130
		1,2-Dichloroethane-d4	0.5	0.48	95		70	130
		1,2-Dichloropropane-d6	0.5	0.44	88		60	140
		Toluene-d8	0.5	0.50	100		70	130
		1,1,2,2-Tetrachloroethane-d2	0.5	0.55	111		65	120

VOLATILE METHOD BLANK SUMMARY

Client ID

VBLK239

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3813

Lab File ID: VV039518.D

Lab Sample ID: VV1210WBL01

Date Analyzed: 12/10/2025

Time Analyzed: 09:36

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
BR-04DR-451-120825-SIM	Q3813-02	VV039525.D	12/10/2025
EB01-120825	Q3813-03	VV039526.D	12/10/2025
TB01-120825	Q3813-04	VV039527.D	12/10/2025
VHBLK001	Q3813-05	VV039530.D	12/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q3813

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.: Q3813

Lab File ID: VV039516.D

BFB Injection Date: 12/10/2025

Instrument ID: MSVOA_V

BFB Injection Time: 08:29

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	19.1
75	30.0 - 60.0% of mass 95	49.6
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	94.9
175	5.0 - 9.0% of mass 174	7.2 (7.6) 1
176	95.0 - 101.0% of mass 174	90.7 (95.5) 1
177	5.0 - 9.0% of mass 176	6 (6.7) 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
VSTD0.5341	VSTDCCC0.5	VV039517.D	12/10/2025	09:10
VBLK239	VV1210WBL01	VV039518.D	12/10/2025	09:36
BR-04DR-451-120825-SIM	Q3813-02	VV039525.D	12/10/2025	13:01
EB01-120825	Q3813-03	VV039526.D	12/10/2025	13:29
TB01-120825	Q3813-04	VV039527.D	12/10/2025	13:51
VHBLK001	Q3813-05	VV039530.D	12/10/2025	14:54
VSTD0.5342	VSTDCCC0.5EC	VV039532.D	12/10/2025	15:47

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
Lab Code: ACE SDG NO.: Q3813
Lab File ID: VV039517.D Date Analyzed: 12/10/2025
Instrument ID: MSVOA_V Time Analyzed: 09:10
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	6796	5.57	6633	8.79	3778	11.18
UPPER LIMIT	13592	5.736	13266	8.955	7556	11.345
LOWER LIMIT	3398	5.396	3316.5	8.615	1889	11.005
EPA SAMPLE NO.						
BR-04DR-451-120825-SIM	6208	5.57	6043	8.80	3061	11.20
EB01-120825	7218	5.57	6792	8.79	3677	11.18
TB01-120825	6637	5.57	6660	8.80	3485	11.20
VHBLK001	6680	5.57	6693	8.80	3533	11.20
VBLK239	5966	5.57	5775	8.80	2945	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: VBLK239
 Lab Sample ID: VV1210WBL01
 Analytical Method: Level:
 Sample Wt/Vol: 25 mL Final Vol: 25000 uL

Date Collected:
 Date Received:
 SDG No.: Q3813
 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	12/10/25 09:36	VV121025
SURROGATES									
6745-35-3	Vinyl Chloride-d3	0.58			40 - 130	116.4%	SPK: 0.5		
17060-07-0	1,2-Dichloroethane-d4	0.48			70 - 130	95%	SPK: 0.5		
93952-08-0	1,2-Dichloropropane-d6	0.44			60 - 140	88.2%	SPK: 0.5		
2037-26-5	Toluene-d8	0.50			70 - 130	99.6%	SPK: 0.5		
33685-54-0	1,1,2,2-Tetrachloroethane-d2	0.55			65 - 120	110.8%	SPK: 0.5		
INTERNAL STANDARDS									
		Area Count							
3114-55-4	Chlorobenzene-d5	5780							
540-36-3	1,4-Difluorobenzene	5970							
3855-82-1	1,4-Dichlorobenzene-d4	2950							

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: Alliance Contract: JAC005
 Lab Code: ACE SDG No.: Q3813
 Instrument ID: MSVOA_V Calibration Date(s): 12/03/2025 12/03/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:55 12:18
 GC Column: DB-624UI ID: 0.18 (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>Q3813</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/10/2025</u> <u>09:10</u>
Lab File ID:	<u>VV039517.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	1.050	0.01	-3	30
Vinyl Chloride-d3	0.491	0.515	0.01	4.9	30
1,2-Dichloroethane-d4	0.333	0.316	0.01	-5.2	25
1,2-Dichloropropane-d6	0.422	0.449	0.1	6.4	20
Toluene-d8	0.712	0.694	0.2	-2.5	20
1,1,2,2-Tetrachloroethane-d2	0.238	0.250	0.01	5.1	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>Q3813</u>
Instrument ID:	<u>MSVOA_V</u>	Calibration Date/Time:	<u>12/10/2025 15:47</u>
Lab File ID:	<u>VV039532.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	1.038	0.01	-4.1	50
Vinyl Chloride-d3	0.491	0.483	0.01	-1.6	50
1,2-Dichloroethane-d4	0.333	0.322	0.01	-3.2	50
1,2-Dichloropropane-d6	0.422	0.413	0.1	-2.2	50
Toluene-d8	0.712	0.671	0.2	-5.7	50
1,1,2,2-Tetrachloroethane-d2	0.238	0.241	0.01	1.2	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\VV121025\
 Data File : VV039525.D
 Acq On : 10 Dec 2025 13:01
 Operator : SY/MD
 Sample : Q3813-02
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BR-04DR-451-120825-SIM

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:06:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 09 08:40:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6208	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6043	0.500	ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3061	0.500	ug/L	0.02
System Monitoring Compounds						
2) Vinyl Chloride-d3	1.294	65	3249m	0.533	ug/L	0.00
Spiked Amount 0.500	Range 40 - 130		Recovery =	106.000%		
4) 1,2-Dichloroethane-d4	4.969	65	2014	0.487	ug/L	0.00
Spiked Amount 0.500	Range 70 - 130		Recovery =	98.000%		
7) 1,2-Dichloropropane-d6	5.995	67	2050	0.402	ug/L	-0.02
Spiked Amount 0.500	Range 60 - 140		Recovery =	80.000%		
8) Toluene-d8	7.253	98	4098	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	1420	0.494	ug/L	0.00
Spiked Amount 0.500	Range 65 - 120		Recovery =	98.000%		
Target Compounds						Qvalue
6) Trichloroethene	5.828	95	61290	8.365	ug/L	96

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

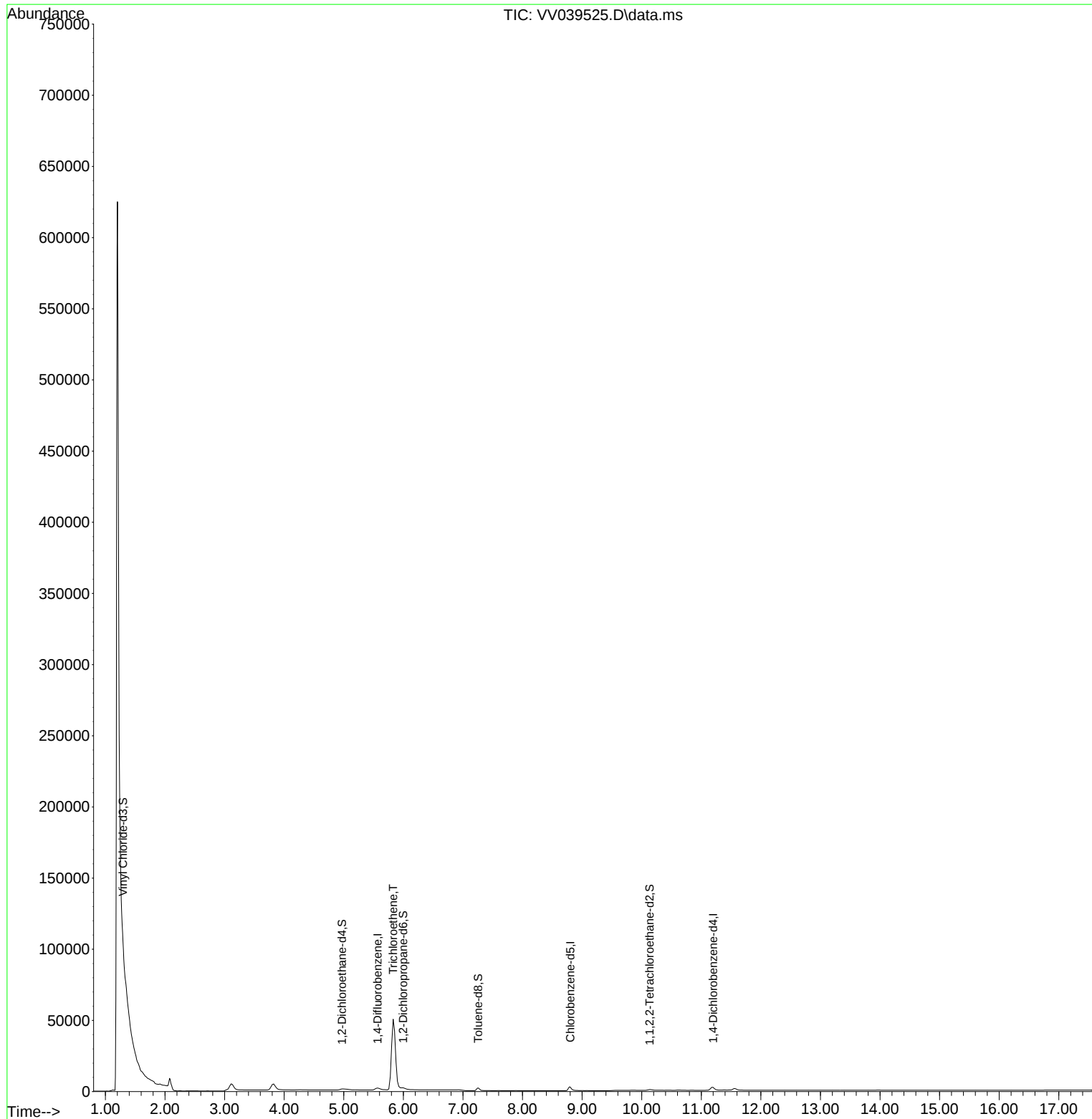
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Data File : VV039525.D
Acq On : 10 Dec 2025 13:01
Operator : SY/MD
Sample : Q3813-02
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 10 Sample Multiplier: 1

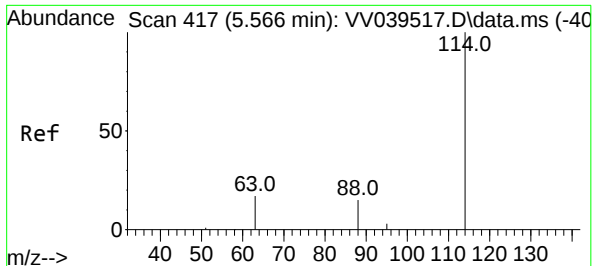
Instrument :
MSVOA_V
ClientSampleId :
BR-04DR-451-120825-SIM

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025

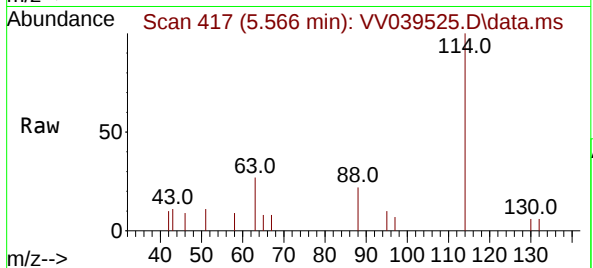
Quant Time: Dec 11 00:06:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration





#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

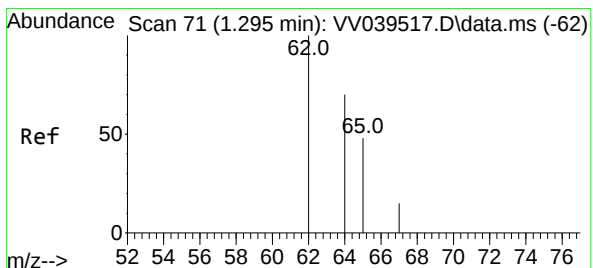
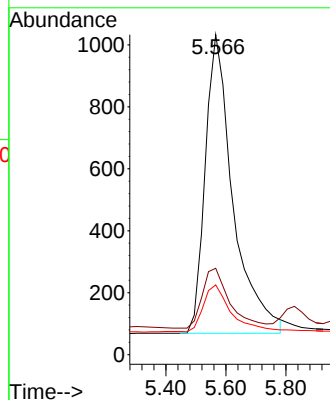
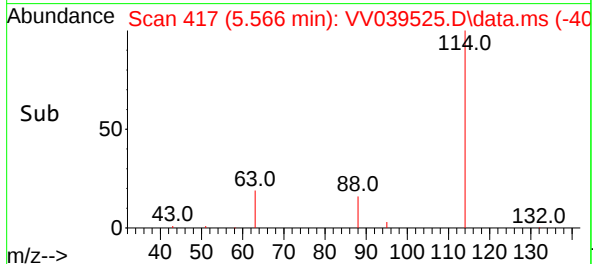
Instrument : MSVOA_V
ClientSampleId : BR-04DR-451-120825-SIM



Tgt Ion: 114 Resp: 6208
Ion Ratio Lower Upper
114 100
63 19.5 15.0 22.4
88 16.1 12.0 18.0

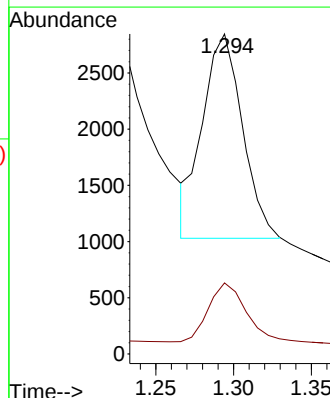
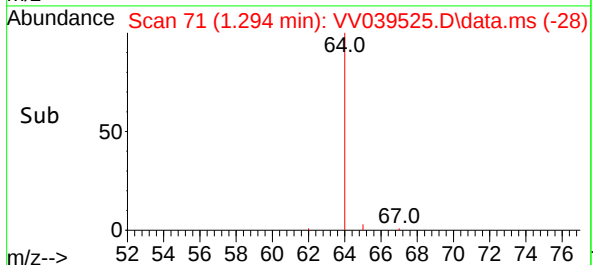
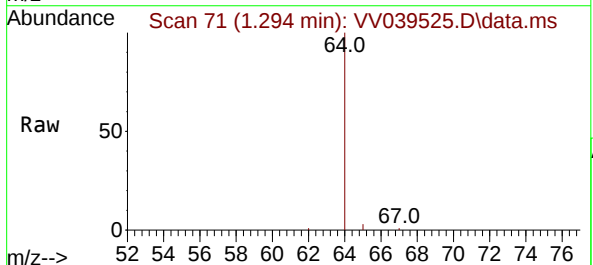
Manual Integrations
APPROVED

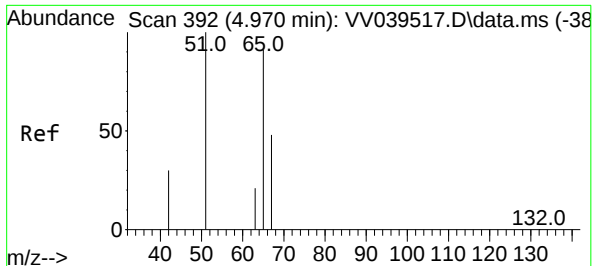
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#2
Vinyl Chloride-d3
Concen: 0.533 ug/L m
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

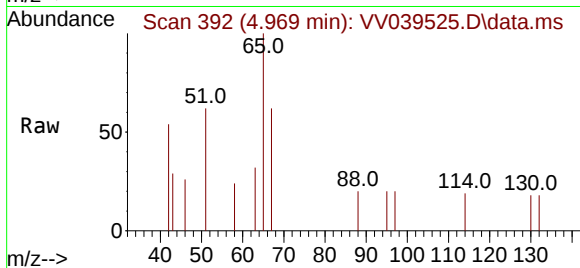
Tgt Ion: 65 Resp: 3249
Ion Ratio Lower Upper
65 100
67 32.9 22.3 41.5





#4
1,2-Dichloroethane-d4
Concen: 0.487 ug/L
RT: 4.969 min Scan# 392
Delta R.T. 0.000 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

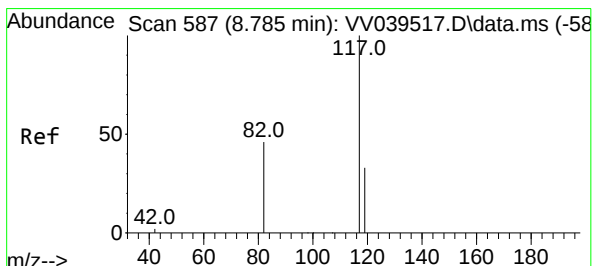
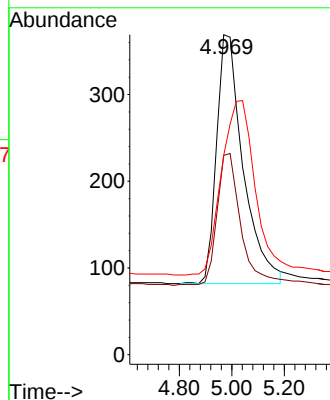
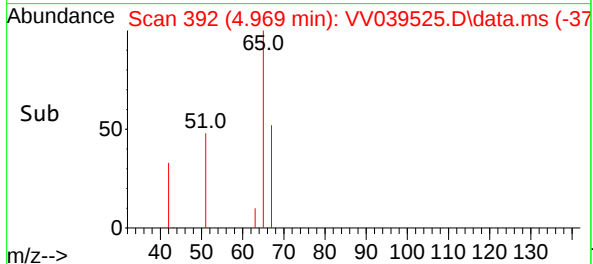
Instrument :
MSVOA_V
ClientSampleId :
BR-04DR-451-120825-SIM



Tgt Ion: 65 Resp: 2014
Ion Ratio Lower Upper
65 100
67 47.5 32.5 60.3
51 87.3 121.4 225.6

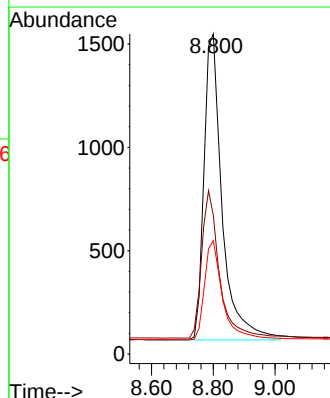
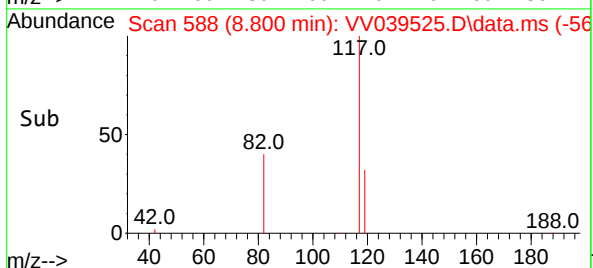
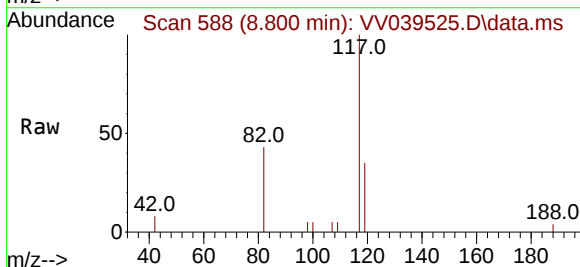
Manual Integrations
APPROVED

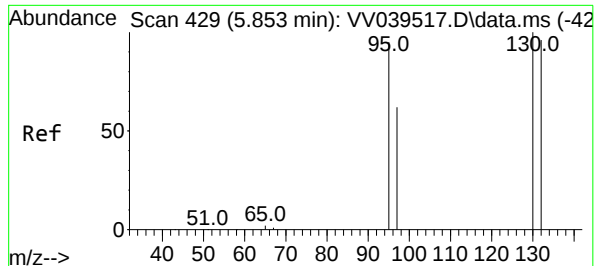
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

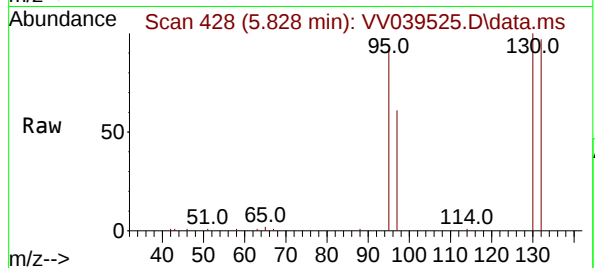
Tgt Ion:117 Resp: 6043
Ion Ratio Lower Upper
117 100
82 47.2 39.4 59.2
119 32.3 26.2 39.2





#6
Trichloroethene
Concen: 8.365 ug/L
RT: 5.828 min Scan# 41
Delta R.T. -0.024 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

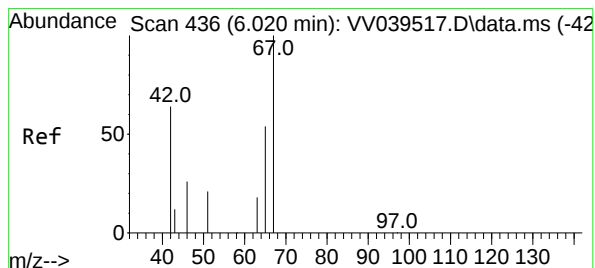
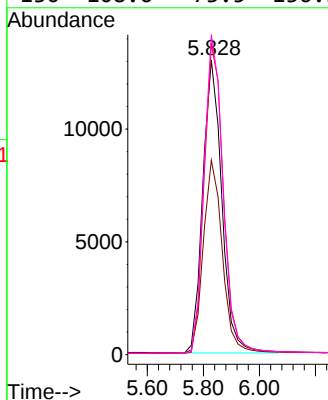
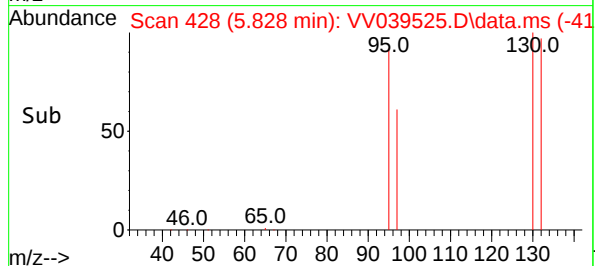
Instrument :
MSVOA_V
ClientSampleId :
BR-04DR-451-120825-SIM



Tgt Ion: 95 Resp: 61290
Ion Ratio Lower Upper
95 100
97 66.0 47.7 88.7
132 105.4 70.8 131.4
130 108.6 73.5 136.5

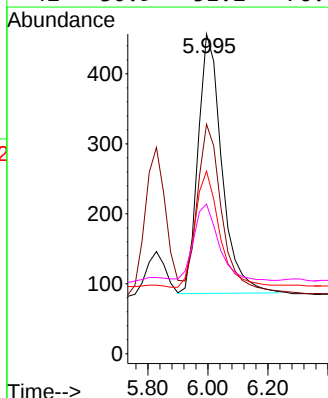
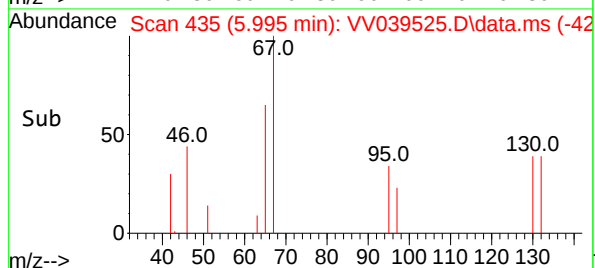
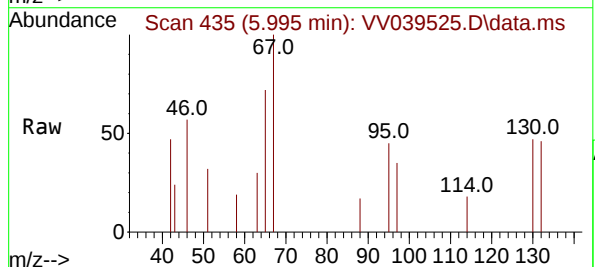
Manual Integrations
APPROVED

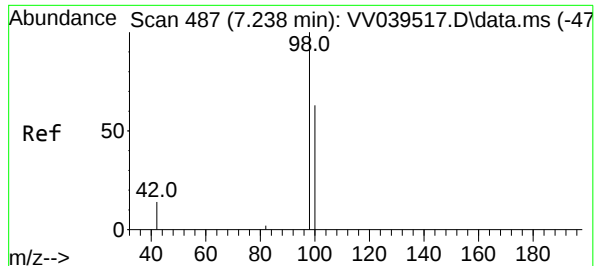
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#7
1,2-Dichloropropane-d6
Concen: 0.402 ug/L
RT: 5.995 min Scan# 435
Delta R.T. -0.024 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

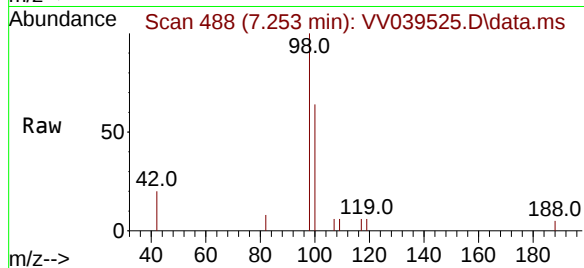
Tgt Ion: 67 Resp: 2050
Ion Ratio Lower Upper
67 100
65 63.2 37.9 56.9#
46 46.1 27.4 41.0#
42 30.9 51.2 76.8#





#8
Toluene-d8
Concen: 0.476 ug/L
RT: 7.253 min Scan# 488
Delta R.T. 0.015 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

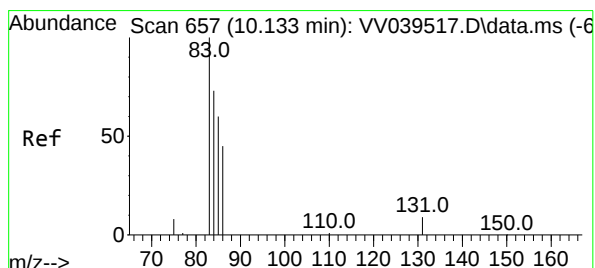
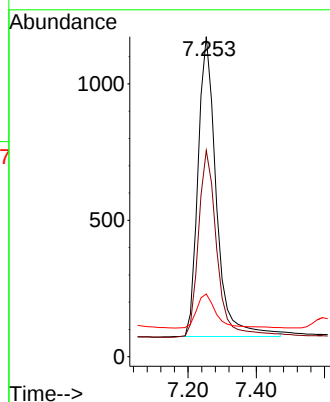
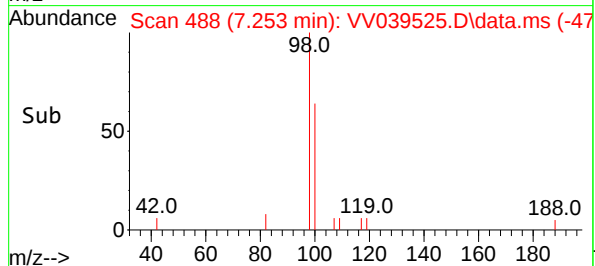
Instrument :
MSVOA_V
ClientSampleId :
BR-04DR-451-120825-SIM



Tgt Ion: 98 Resp: 4098
Ion Ratio Lower Upper
98 100
100 62.5 44.5 82.7
42 12.1 10.1 18.7

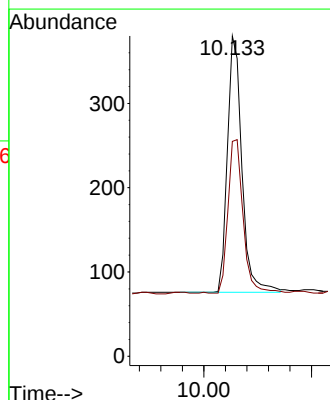
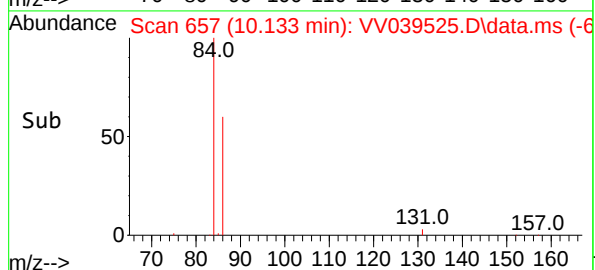
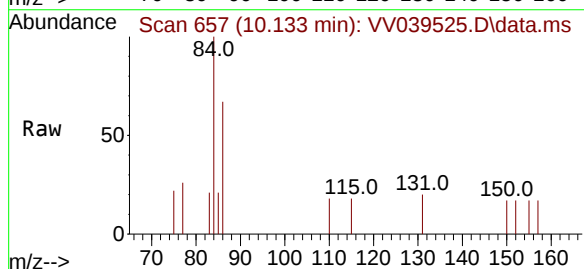
Manual Integrations
APPROVED

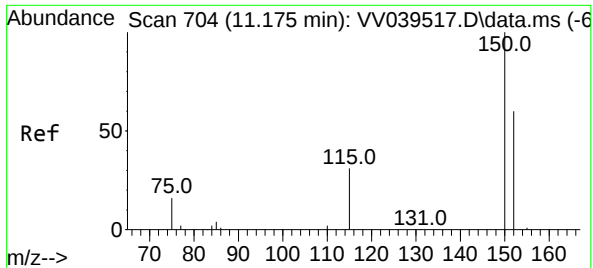
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#10
1,1,2,2-Tetrachloroethane-d2
Concen: 0.494 ug/L
RT: 10.133 min Scan# 657
Delta R.T. -0.000 min
Lab File: VV039525.D
Acq: 10 Dec 2025 13:01

Tgt Ion: 84 Resp: 1420
Ion Ratio Lower Upper
84 100
86 62.3 44.4 82.5





#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 70

Delta R.T. 0.022 min

Lab File: VV039525.D

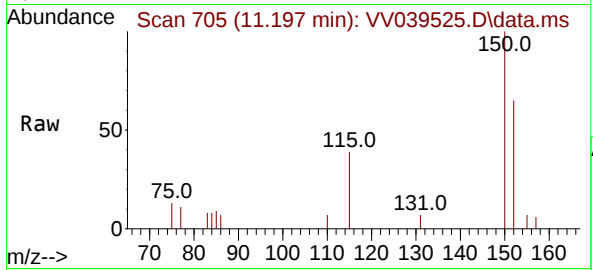
Acq: 10 Dec 2025 13:01

Instrument :

MSVOA_V

ClientSampleId :

BR-04DR-451-120825-SIM



Tgt Ion:152 Resp: 306

Ion Ratio Lower Upper

152 100

115 56.4 0.0 101.6

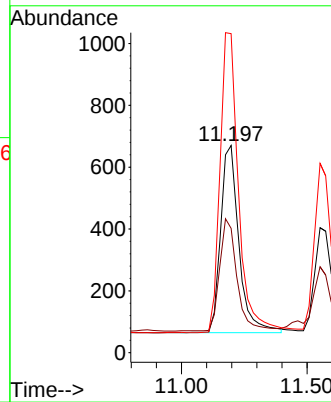
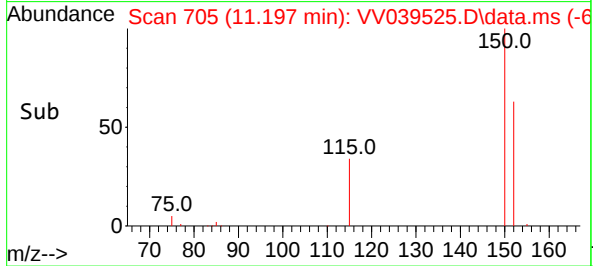
150 161.7 0.0 396.2

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025

Supervised By :Semsettin Yesilyurt 12/12/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV121025\
 Data File : VV039526.D
 Acq On : 10 Dec 2025 13:29
 Operator : SY/MD
 Sample : Q3813-03
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EB01-120825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:06:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 09 08:40:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	7218	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.785	117	6792	0.500	ug/L	0.00
12) 1,4-Dichlorobenzene-d4	11.175	152	3677	0.500	ug/L	0.00

System Monitoring Compounds

2) Vinyl Chloride-d3	1.295	65	3185m	0.449	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	90.000%
4) 1,2-Dichloroethane-d4	4.970	65	2013	0.419	ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	=	84.000%
7) 1,2-Dichloropropane-d6	5.996	67	2321	0.405	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	82.000%
8) Toluene-d8	7.254	98	4445	0.460	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	92.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1713	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

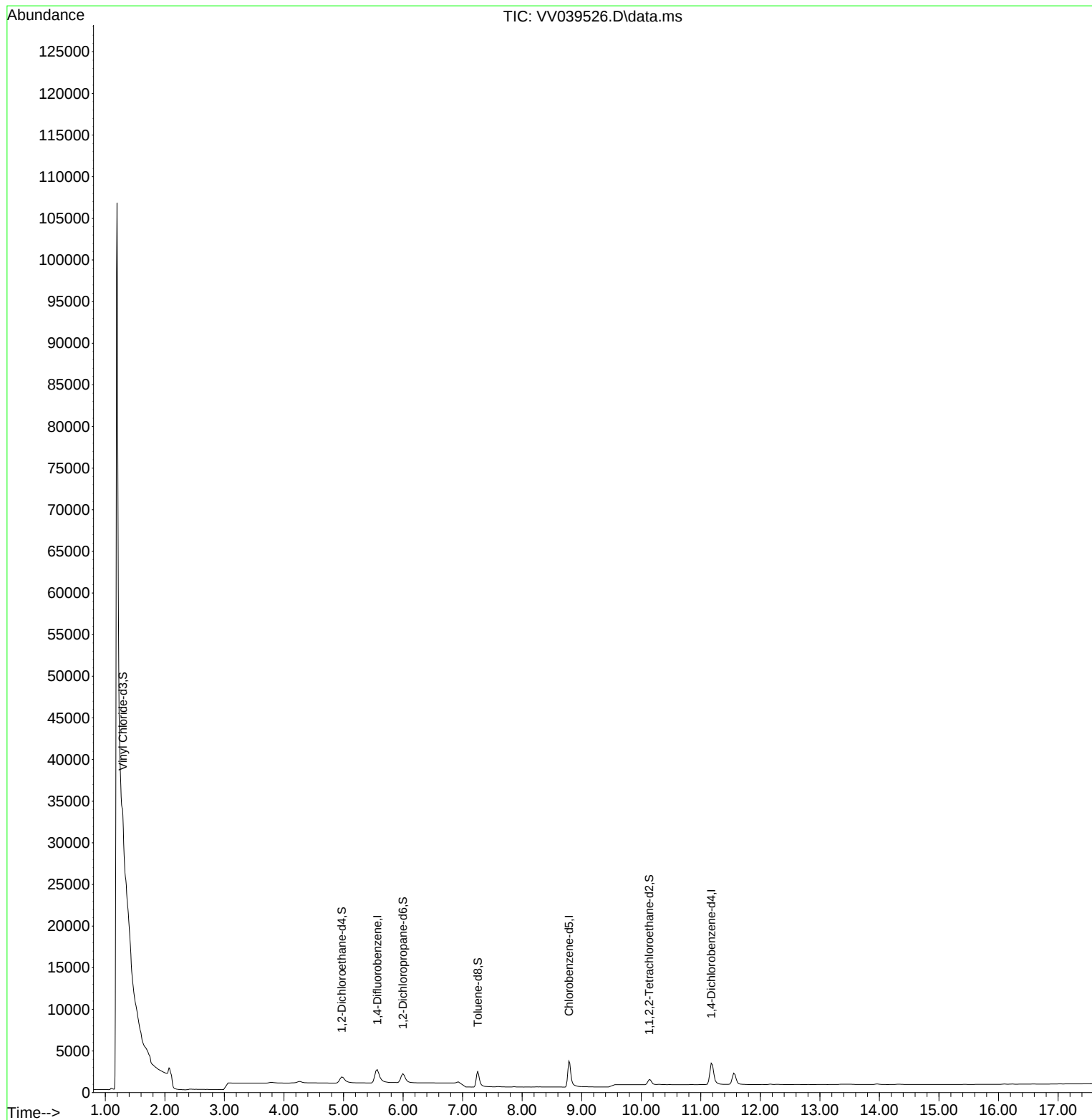
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Data File : VV039526.D
Acq On : 10 Dec 2025 13:29
Operator : SY/MD
Sample : Q3813-03
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 11 Sample Multiplier: 1

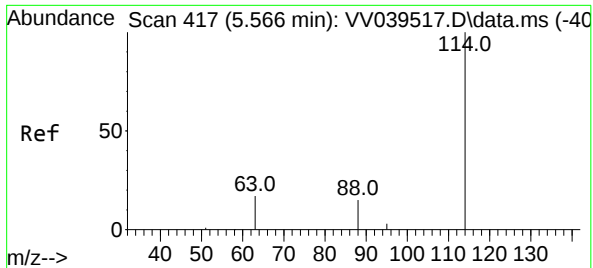
Instrument :
MSVOA_V
ClientSampleId :
EB01-120825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:06:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration





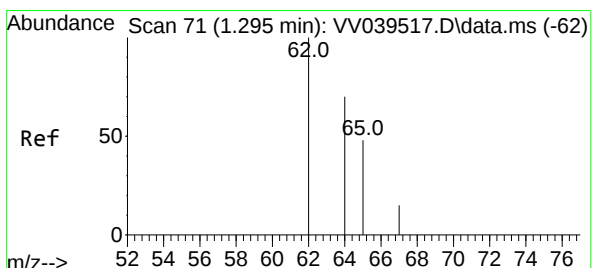
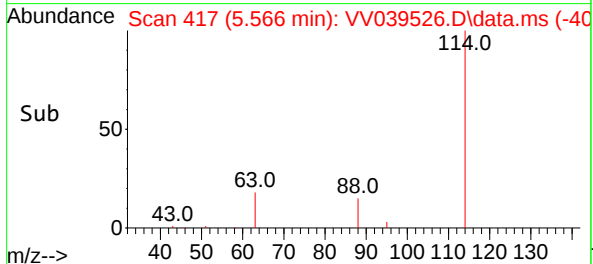
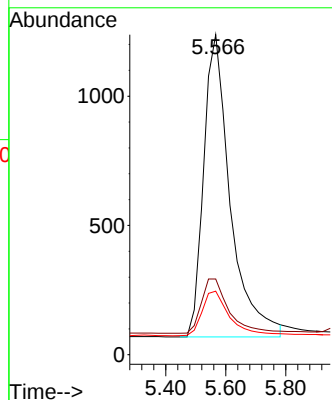
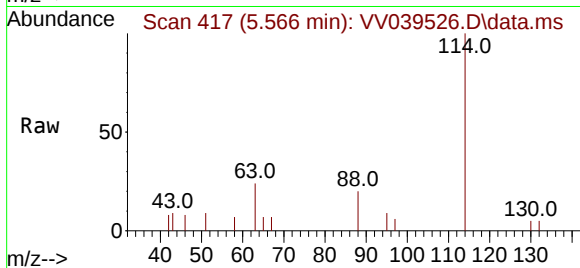
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1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. 0.000 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
EB01-120825

Tgt Ion:114 Resp: 7218
Ion Ratio Lower Upper
114 100
63 18.5 15.0 22.4
88 15.3 12.0 18.0

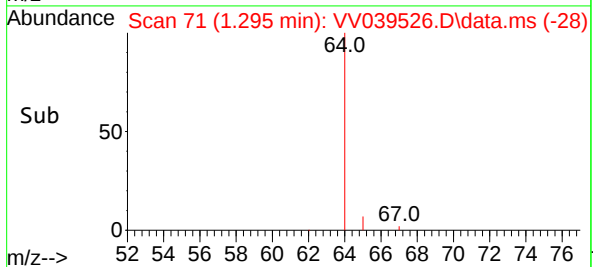
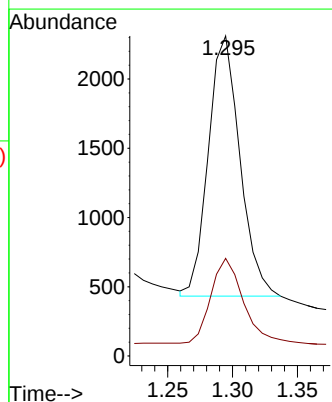
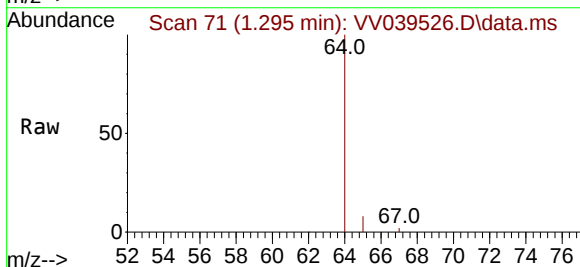
Manual Integrations
APPROVED

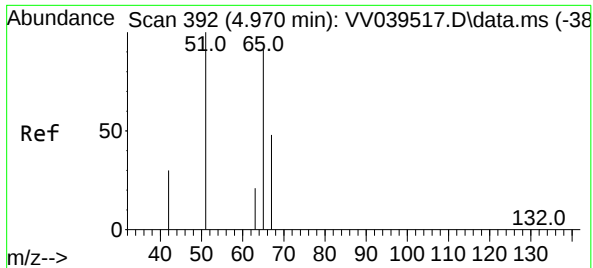
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#2
Vinyl Chloride-d3
Concen: 0.449 ug/L m
RT: 1.295 min Scan# 71
Delta R.T. 0.001 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

Tgt Ion: 65 Resp: 3185
Ion Ratio Lower Upper
65 100
67 34.9 22.3 41.5





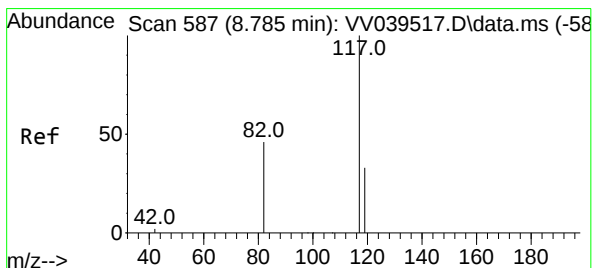
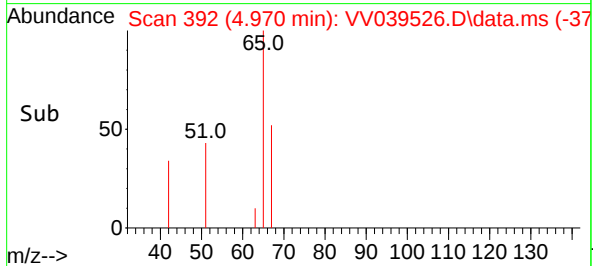
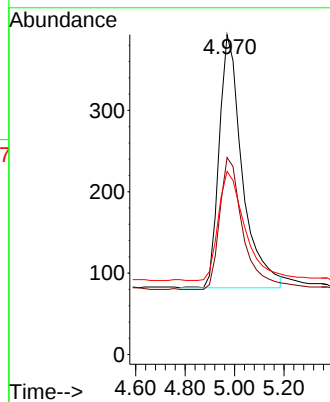
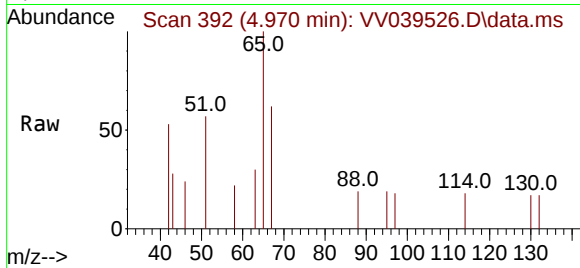
#4
1,2-Dichloroethane-d4
Concen: 0.419 ug/L
RT: 4.970 min Scan# 392
Delta R.T. 0.001 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

Instrument :
MSVOA_V
ClientSampleId :
EB01-120825

Tgt Ion: 65 Resp: 201
Ion Ratio Lower Upper
65 100
67 52.3 32.5 60.3
51 49.5 121.4 225.6

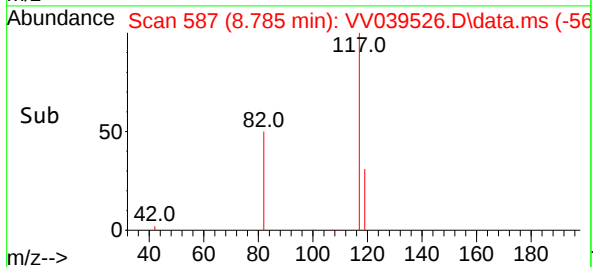
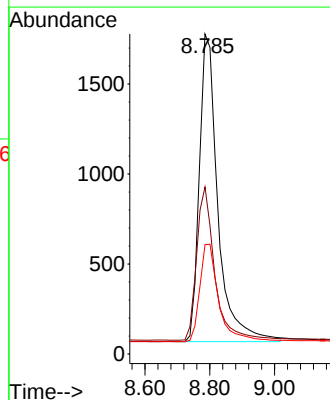
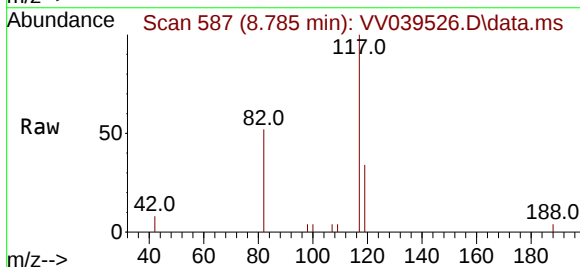
Manual Integrations
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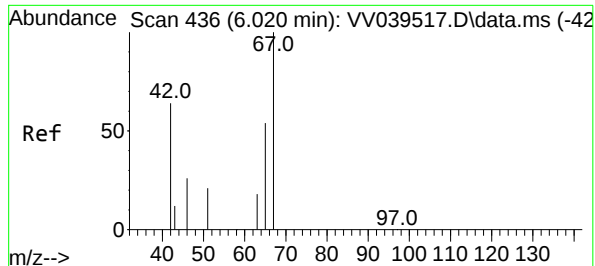
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.785 min Scan# 587
Delta R.T. 0.000 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

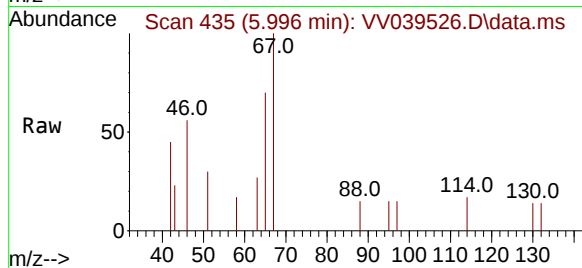
Tgt Ion:117 Resp: 6792
Ion Ratio Lower Upper
117 100
82 48.6 39.4 59.2
119 32.4 26.2 39.2





#7
1,2-Dichloropropane-d6
Concen: 0.405 ug/L
RT: 5.996 min Scan# 41
Delta R.T. -0.023 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

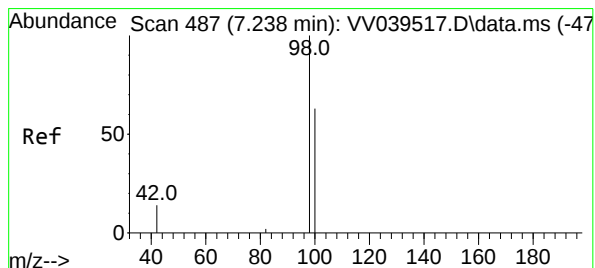
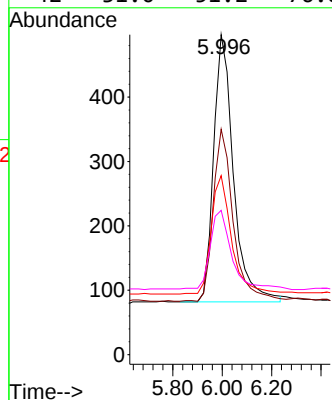
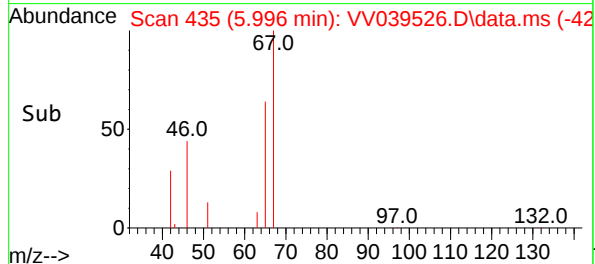
Instrument :
MSVOA_V
ClientSampleId :
EB01-120825



Tgt Ion: 67 Resp: 232
Ion Ratio Lower Upper
67 100
65 64.8 37.9 56.9
46 45.5 27.4 41.0
42 31.0 51.2 76.8

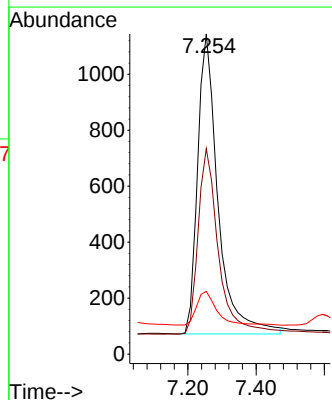
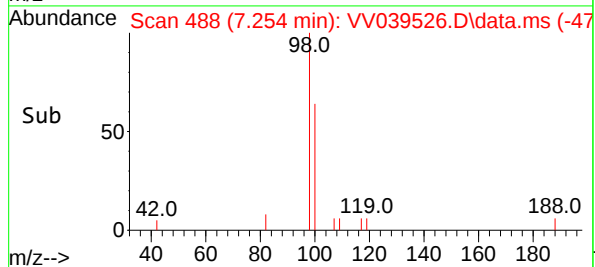
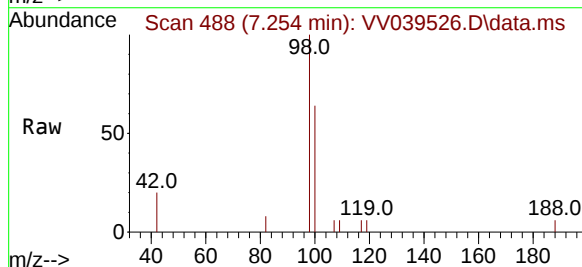
Manual Integrations
APPROVED

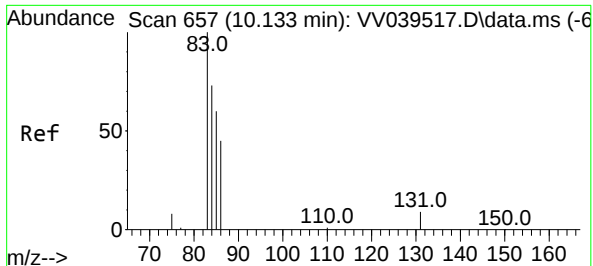
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#8
Toluene-d8
Concen: 0.460 ug/L
RT: 7.254 min Scan# 488
Delta R.T. 0.016 min
Lab File: VV039526.D
Acq: 10 Dec 2025 13:29

Tgt Ion: 98 Resp: 4445
Ion Ratio Lower Upper
98 100
100 61.5 44.5 82.7
42 11.2 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.530 ug/L

RT: 10.133 min Scan# 657

Delta R.T. 0.000 min

Lab File: VV039526.D

Acq: 10 Dec 2025 13:29

Instrument :

MSVOA_V

ClientSampleId :

EB01-120825

Tgt Ion: 84 Resp: 171

Ion Ratio Lower Upper

84 100

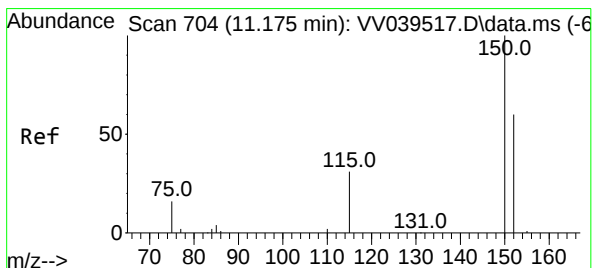
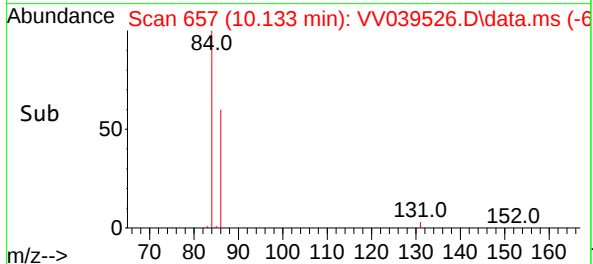
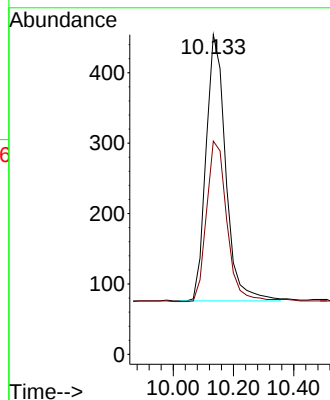
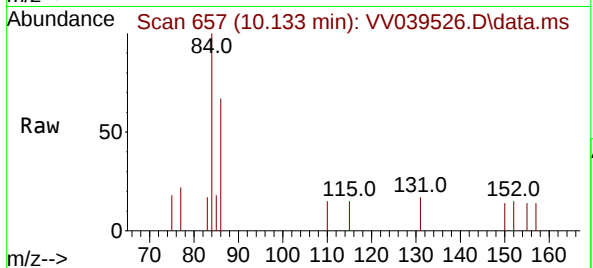
86 62.2 44.4 82.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025

Supervised By :Semsettin Yesilyurt 12/12/2025



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.175 min Scan# 704

Delta R.T. 0.000 min

Lab File: VV039526.D

Acq: 10 Dec 2025 13:29

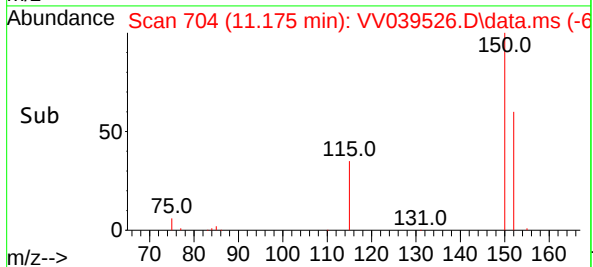
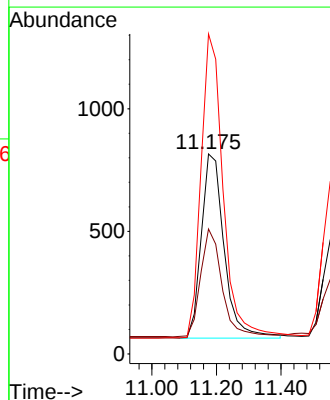
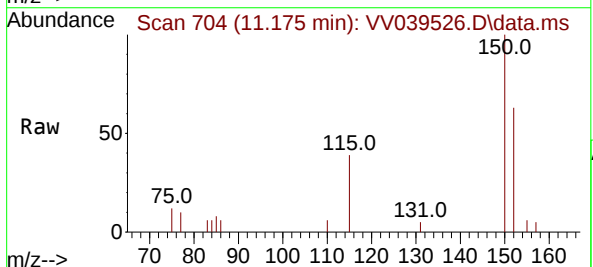
Tgt Ion:152 Resp: 3677

Ion Ratio Lower Upper

152 100

115 54.9 0.0 101.6

150 160.1 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV121025\
 Data File : VV039527.D
 Acq On : 10 Dec 2025 13:51
 Operator : SY/MD
 Sample : Q3813-04
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 TB01-120825

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:06:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 09 08:40:48 2025
 Response via : Initial Calibration

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

Internal Standards					
1) 1,4-Difluorobenzene	5.566	114	6637	0.500 ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6660	0.500 ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	3485	0.500 ug/L	0.02

System Monitoring Compounds

2) Vinyl Chloride-d3	1.294	65	3359m	0.516 ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	= 104.000%
4) 1,2-Dichloroethane-d4	4.993	65	1903	0.431 ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	= 86.000%
7) 1,2-Dichloropropane-d6	5.996	67	2262	0.403 ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	= 80.000%
8) Toluene-d8	7.254	98	4210	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	1693	0.535 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

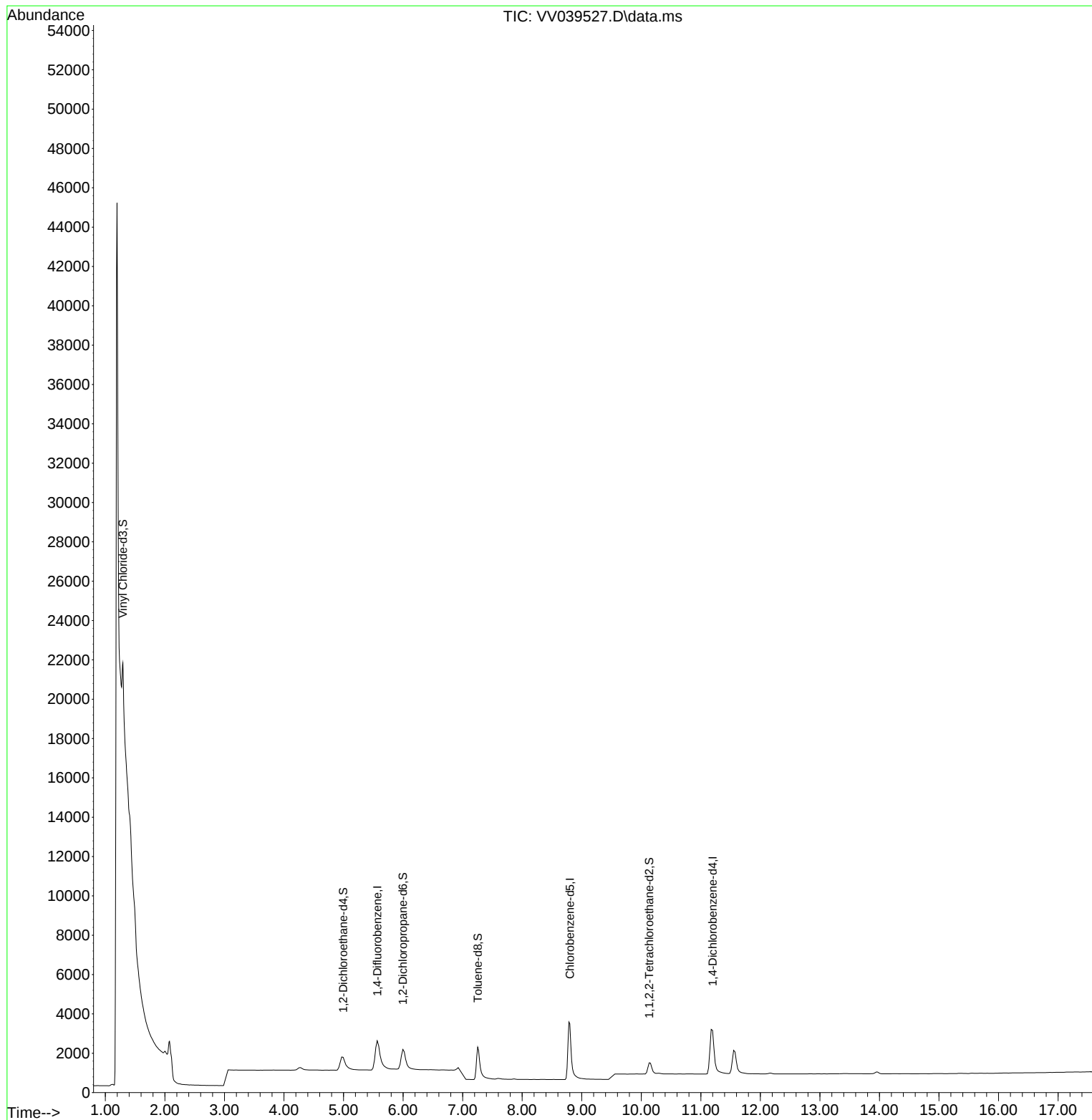
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Data File : VV039527.D
Acq On : 10 Dec 2025 13:51
Operator : SY/MD
Sample : Q3813-04
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 12 Sample Multiplier: 1

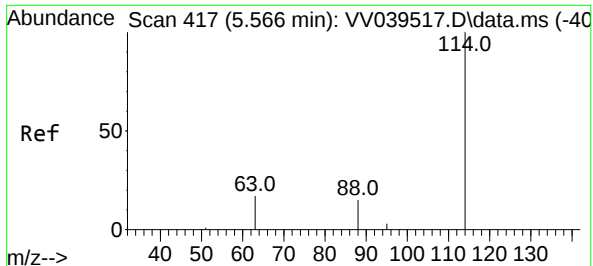
Instrument :
MSVOA_V
ClientSampleId :
TB01-120825

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:06:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration





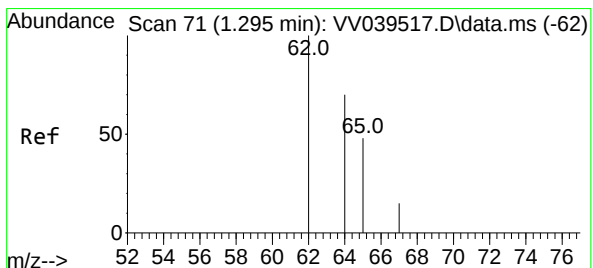
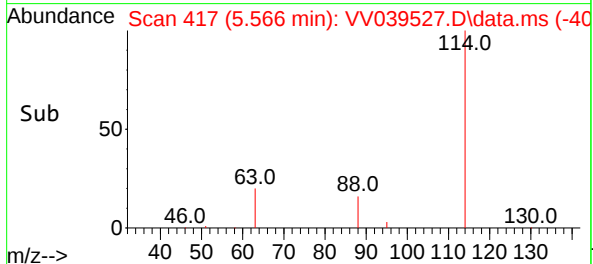
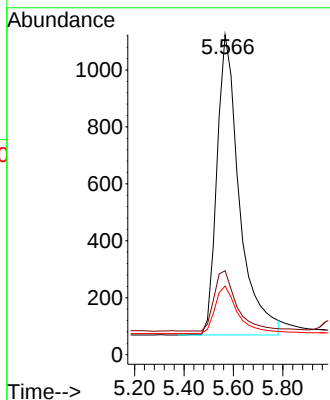
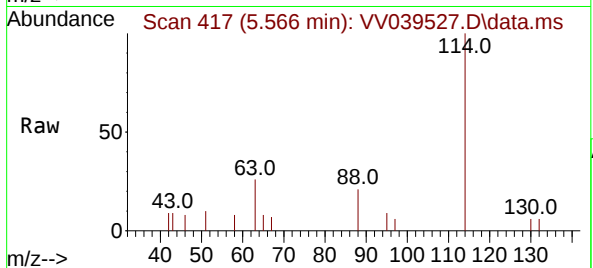
#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. 0.000 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

Instrument :
MSVOA_V
ClientSampleId :
TB01-120825

Tgt Ion	Ratio	Lower	Upper
114	100		
63	20.1	15.0	22.4
88	15.9	12.0	18.0

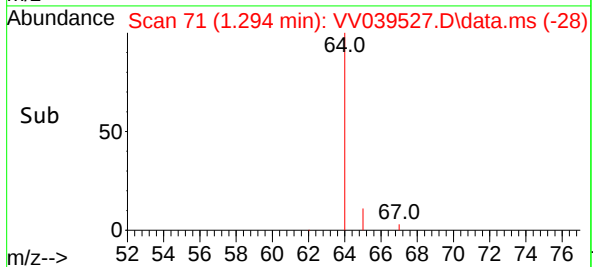
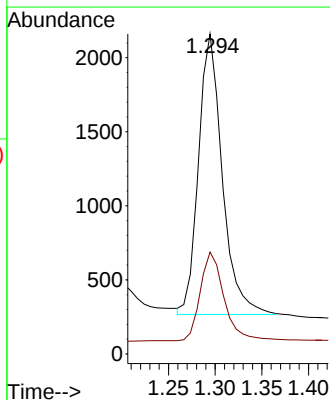
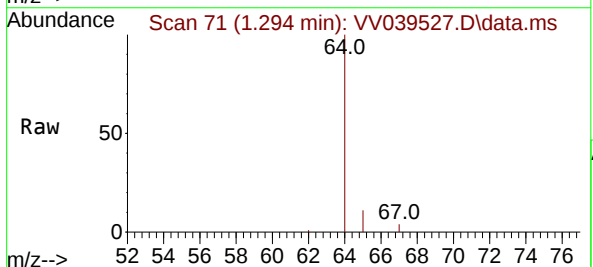
Manual Integrations
APPROVED

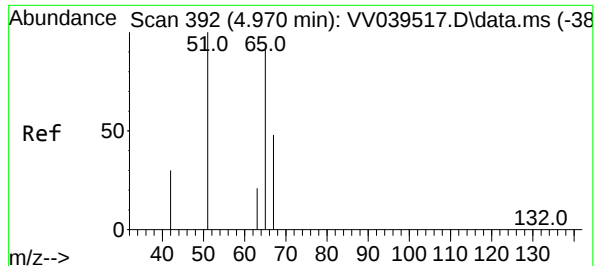
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#2
Vinyl Chloride-d3
Concen: 0.516 ug/L m
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

Tgt Ion	Ratio	Lower	Upper
65	100		
67	36.2	22.3	41.5





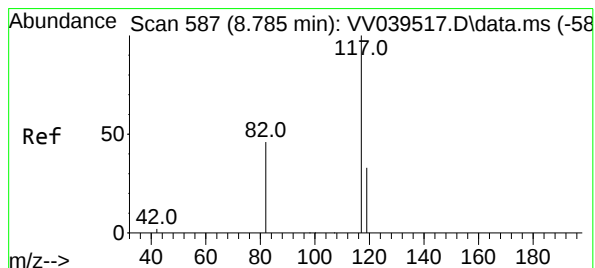
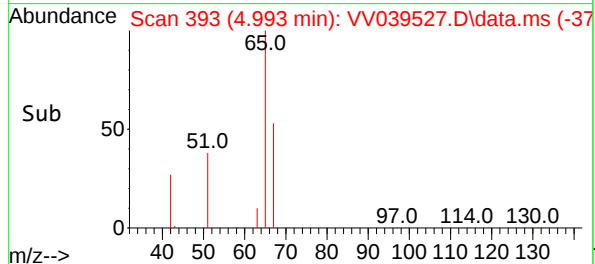
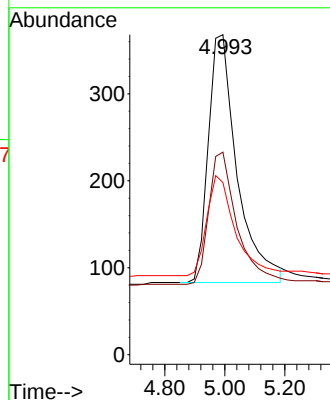
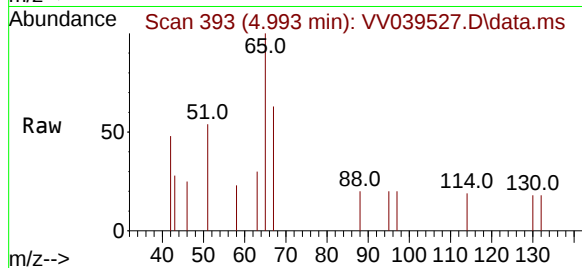
#4
1,2-Dichloroethane-d4
Concen: 0.431 ug/L
RT: 4.993 min Scan# 392
Delta R.T. 0.024 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

Instrument :
MSVOA_V
ClientSampleId :
TB01-120825

Tgt Ion: 65 Resp: 190
Ion Ratio Lower Upper
65 100
67 52.4 32.5 60.3
51 39.7 121.4 225.6

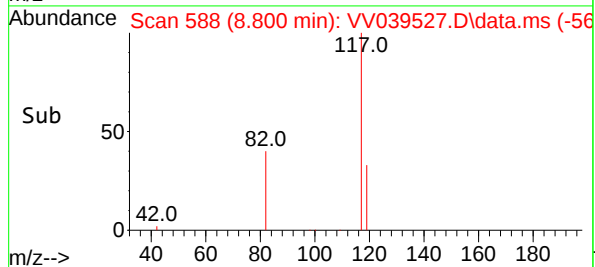
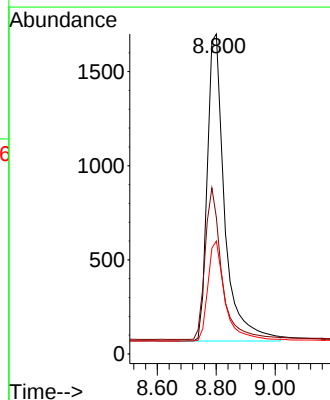
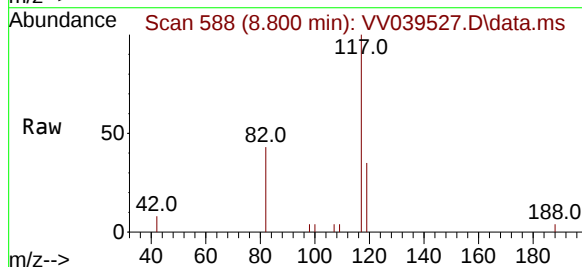
Manual Integrations
APPROVED

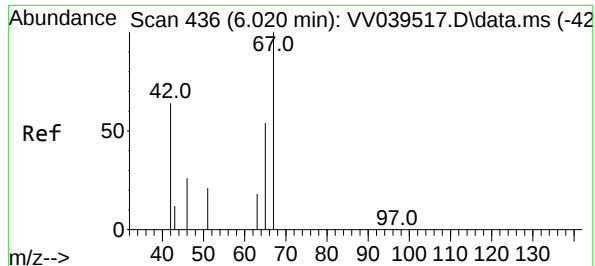
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

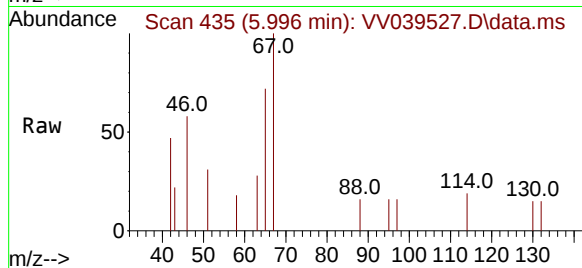
Tgt Ion:117 Resp: 6660
Ion Ratio Lower Upper
117 100
82 47.7 39.4 59.2
119 32.3 26.2 39.2





#7
1,2-Dichloropropane-d6
Concen: 0.403 ug/L
RT: 5.996 min Scan# 435
Delta R.T. -0.023 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

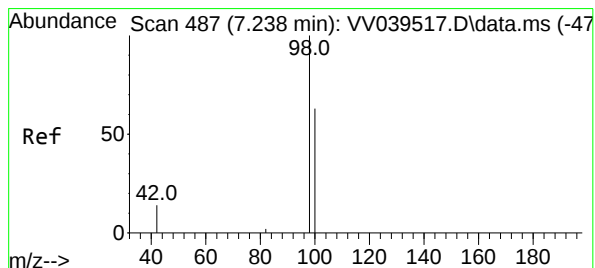
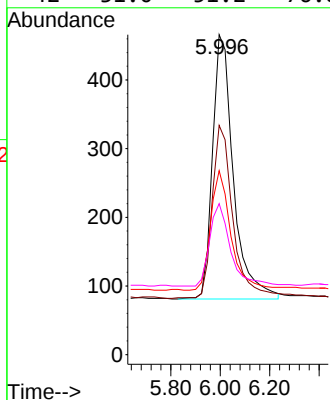
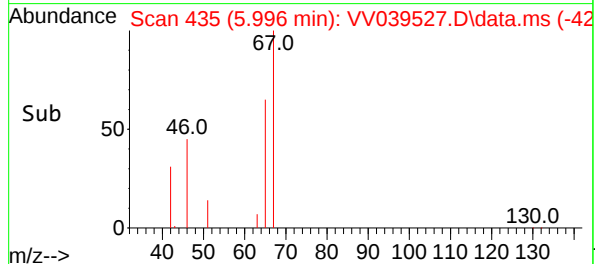
Instrument :
MSVOA_V
ClientSampleId :
TB01-120825



Tgt Ion: 67 Resp: 226
Ion Ratio Lower Upper
67 100
65 65.1 37.9 56.9
46 44.0 27.4 41.0
42 31.0 51.2 76.8

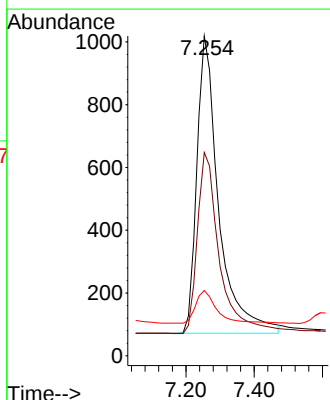
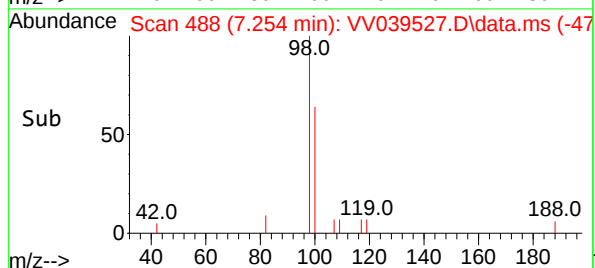
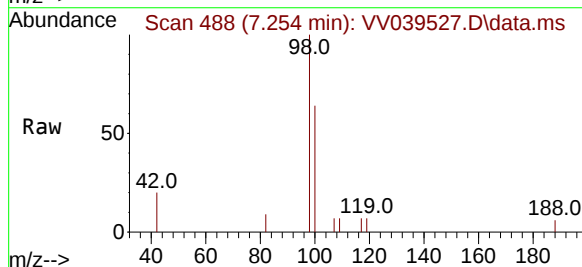
Manual Integrations
APPROVED

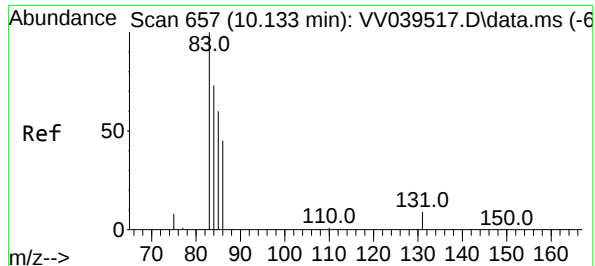
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#8
Toluene-d8
Concen: 0.444 ug/L
RT: 7.254 min Scan# 488
Delta R.T. 0.016 min
Lab File: VV039527.D
Acq: 10 Dec 2025 13:51

Tgt Ion: 98 Resp: 4210
Ion Ratio Lower Upper
98 100
100 61.5 44.5 82.7
42 10.4 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.535 ug/L

RT: 10.133 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV039527.D

Acq: 10 Dec 2025 13:51

Instrument :

MSVOA_V

ClientSampleId :

TB01-120825

Tgt Ion: 84 Resp: 169

Ion Ratio Lower Upper

84 100

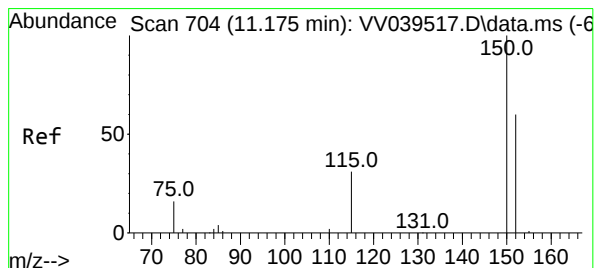
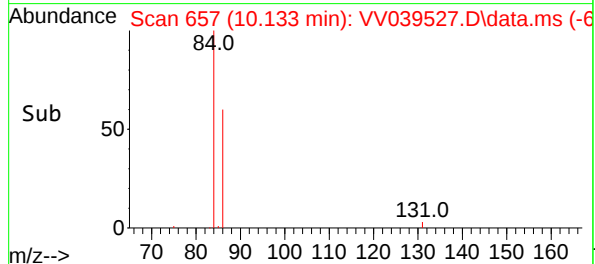
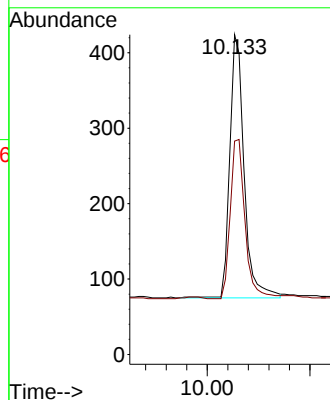
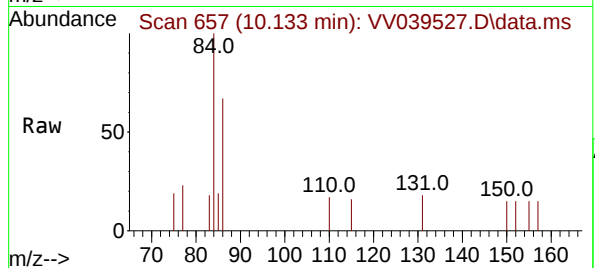
86 62.0 44.4 82.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025

Supervised By :Semsettin Yesilyurt 12/12/2025



#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039527.D

Acq: 10 Dec 2025 13:51

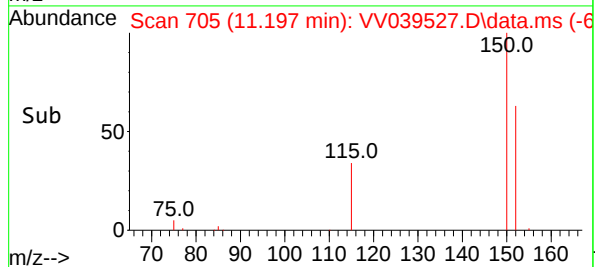
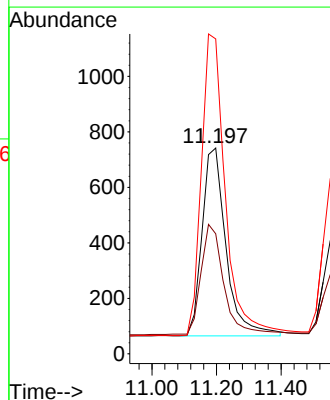
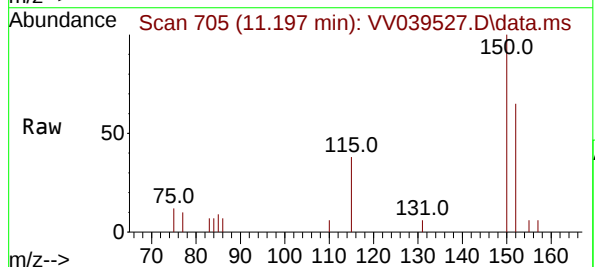
Tgt Ion:152 Resp: 3485

Ion Ratio Lower Upper

152 100

115 56.1 0.0 101.6

150 159.5 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV121025\
 Data File : VV039530.D
 Acq On : 10 Dec 2025 14:54
 Operator : SY/MD
 Sample : Q3813-05
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VHBLK001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
 Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:07:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Dec 09 08:40:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.566	114	6680	0.500	ug/L	0.00
5) Chlorobenzene-d5	8.800	117	6693	0.500	ug/L	0.01
12) 1,4-Dichlorobenzene-d4	11.197	152	3533	0.500	ug/L	0.02

System Monitoring Compounds

2) Vinyl Chloride-d3	1.294	65	3429m	0.523	ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	=	104.000%
4) 1,2-Dichloroethane-d4	4.993	65	2003	0.450	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	90.000%
7) 1,2-Dichloropropane-d6	5.995	67	2292	0.406	ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	=	82.000%
8) Toluene-d8	7.253	98	4243	0.445	ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	=	90.000%
10) 1,1,2,2-Tetrachloroeth...	10.132	84	1709	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

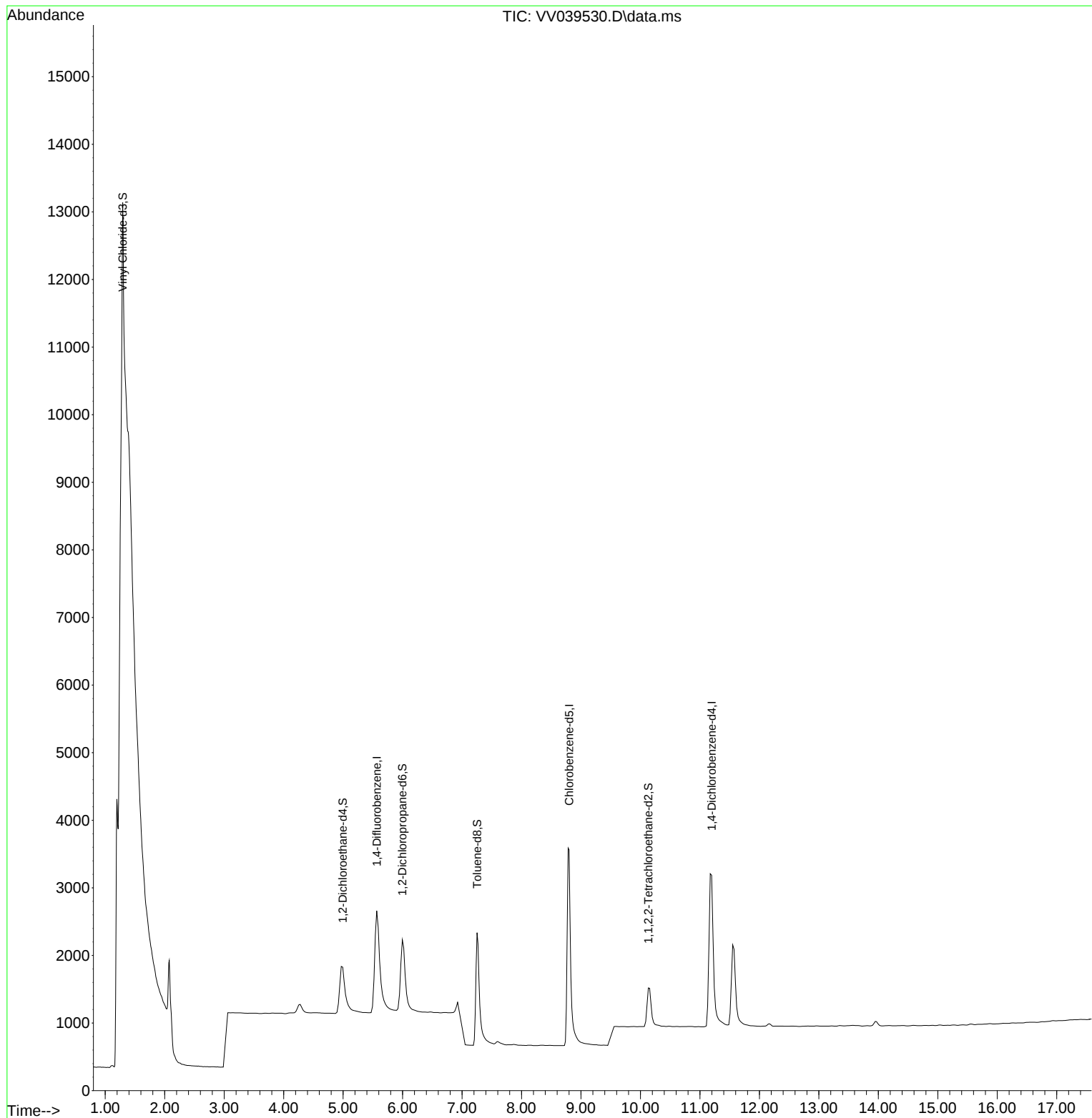
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Data File : VV039530.D
Acq On : 10 Dec 2025 14:54
Operator : SY/MD
Sample : Q3813-05
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 15 Sample Multiplier: 1

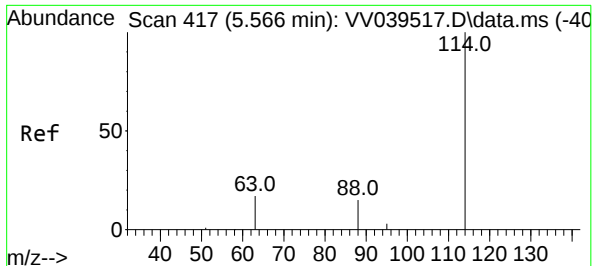
Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025

Quant Time: Dec 11 00:07:26 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration





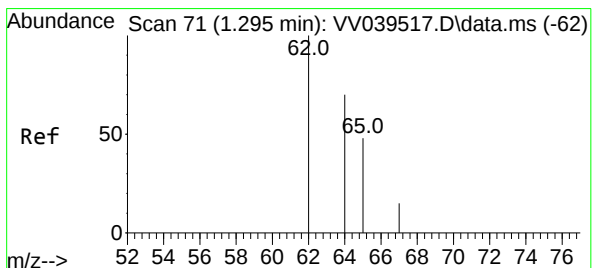
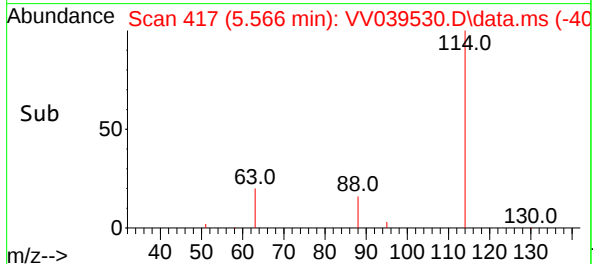
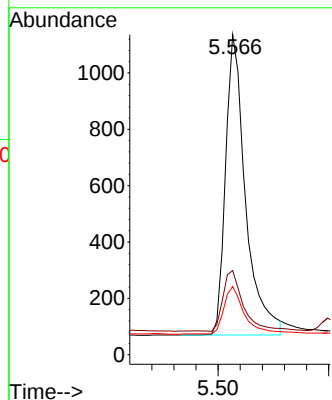
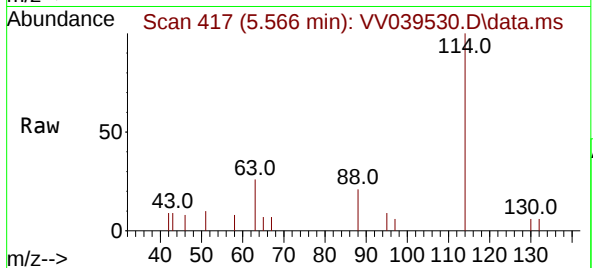
#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

Tgt Ion:114 Resp: 6680
Ion Ratio Lower Upper
114 100
63 20.1 15.0 22.4
88 15.7 12.0 18.0

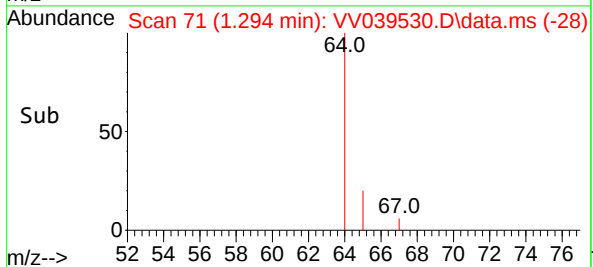
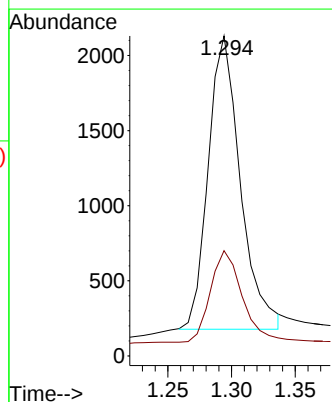
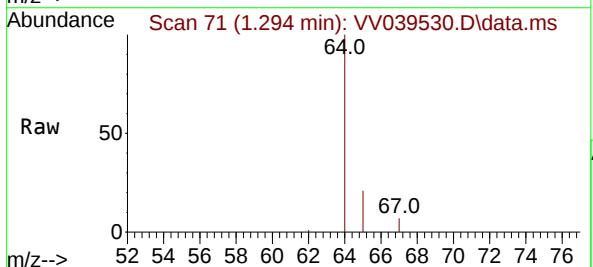
Manual Integrations
APPROVED

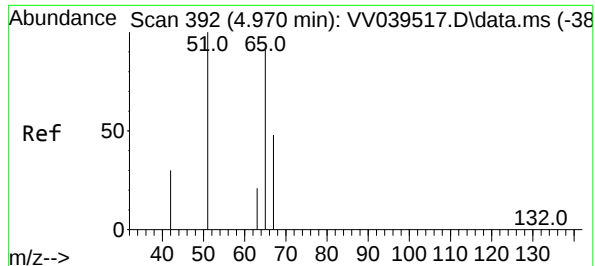
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#2
Vinyl Chloride-d3
Concen: 0.523 ug/L m
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

Tgt Ion: 65 Resp: 3429
Ion Ratio Lower Upper
65 100
67 33.9 22.3 41.5





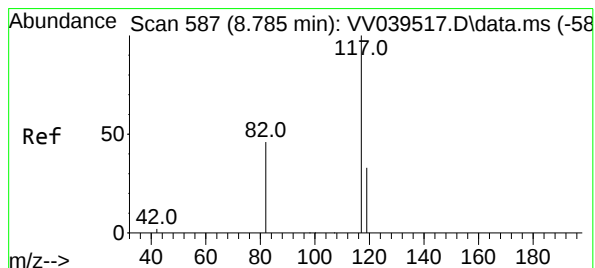
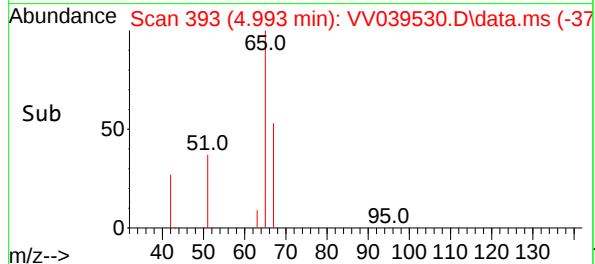
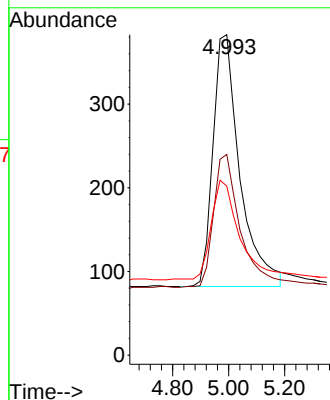
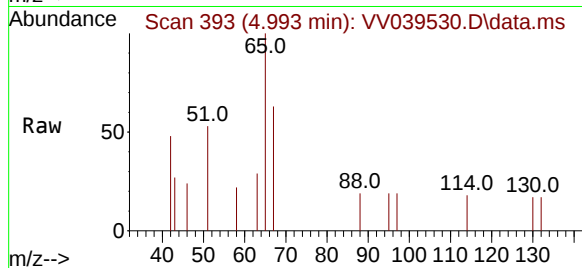
#4
1,2-Dichloroethane-d4
Concen: 0.450 ug/L
RT: 4.993 min Scan# 392
Delta R.T. 0.024 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

Instrument :
MSVOA_V
ClientSampleId :
VHBLK001

Tgt Ion: 65 Resp: 200
Ion Ratio Lower Upper
65 100
67 52.5 32.5 60.3
51 41.9 121.4 225.6

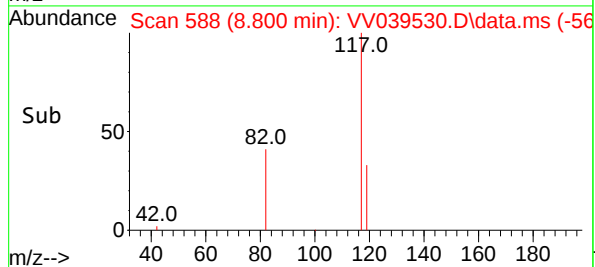
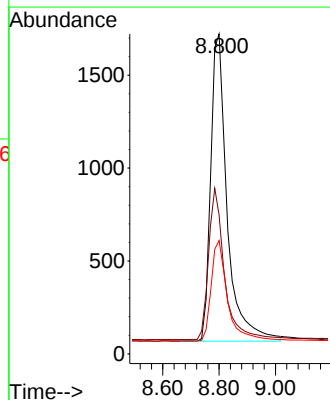
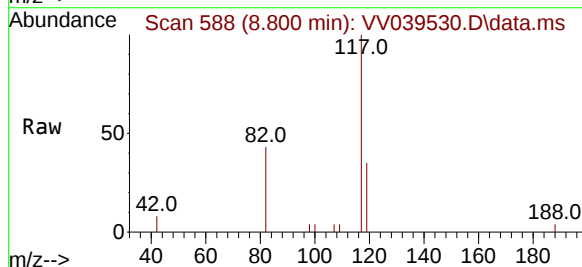
Manual Integrations
APPROVED

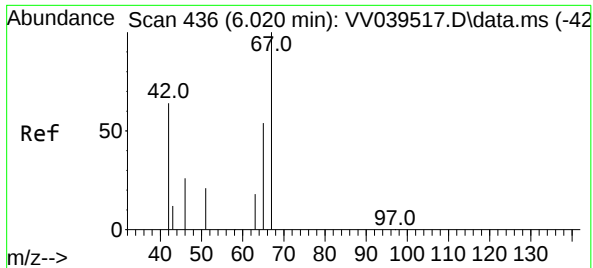
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

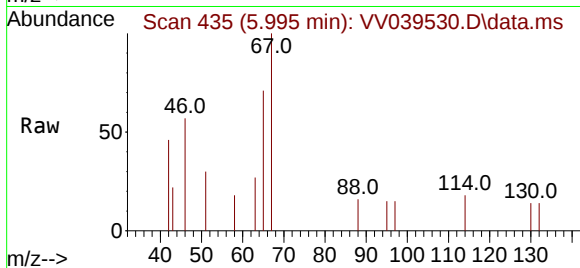
Tgt Ion:117 Resp: 6693
Ion Ratio Lower Upper
117 100
82 47.9 39.4 59.2
119 32.6 26.2 39.2





#7
1,2-Dichloropropane-d6
Concen: 0.406 ug/L
RT: 5.995 min Scan# 41
Delta R.T. -0.024 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

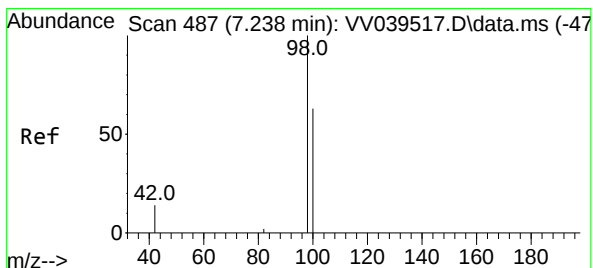
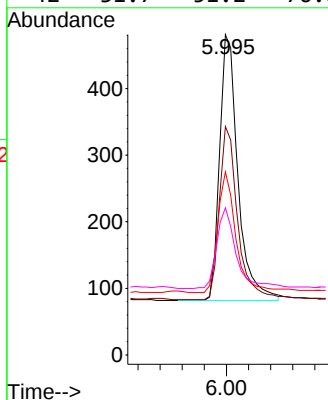
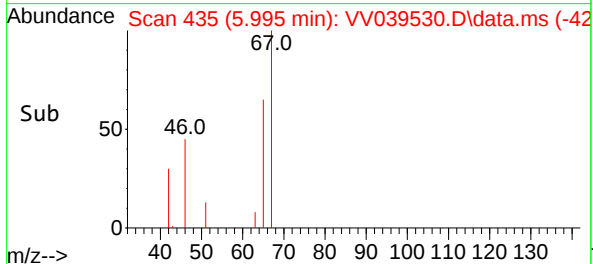
Instrument :
MSVOA_V
ClientSampleId :
VHBLK001



Tgt Ion:	67	Resp:	229
Ion	Ratio	Lower	Upper
67	100		
65	65.0	37.9	56.9
46	44.4	27.4	41.0
42	31.7	51.2	76.8

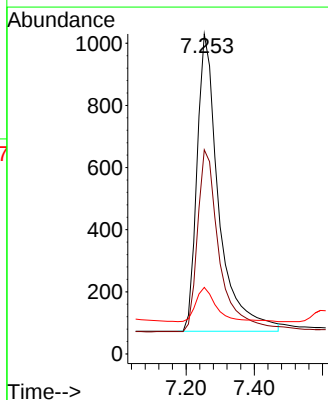
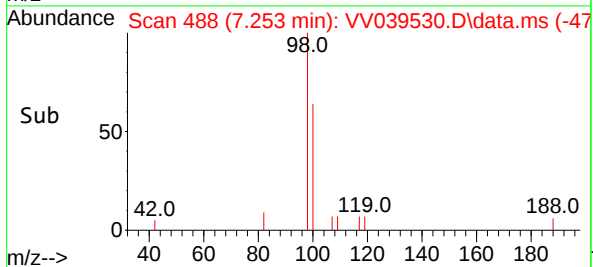
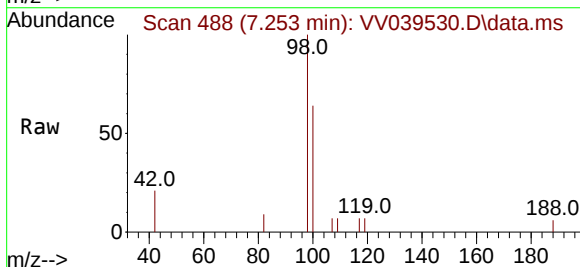
Manual Integrations
APPROVED

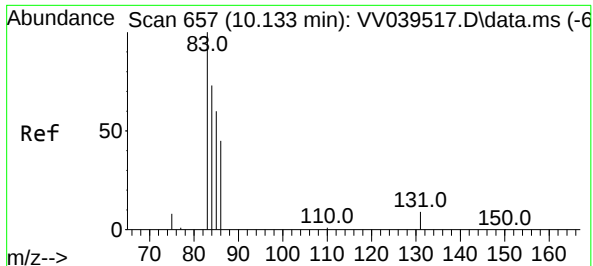
Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025



#8
Toluene-d8
Concen: 0.445 ug/L
RT: 7.253 min Scan# 488
Delta R.T. 0.015 min
Lab File: VV039530.D
Acq: 10 Dec 2025 14:54

Tgt Ion:	98	Resp:	4243
Ion	Ratio	Lower	Upper
98	100		
100	61.7	44.5	82.7
42	10.8	10.1	18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.537 ug/L

RT: 10.132 min Scan# 61

Delta R.T. -0.001 min

Lab File: VV039530.D

Acq: 10 Dec 2025 14:54

Instrument :

MSVOA_V

ClientSampleId :

VHBLK001

Tgt Ion: 84 Resp: 1709

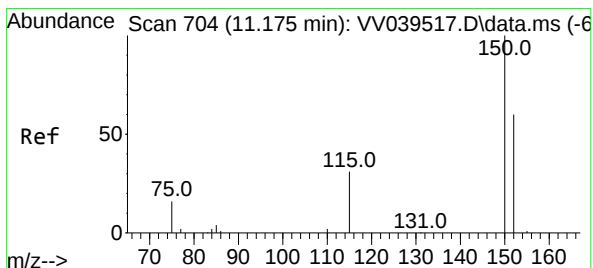
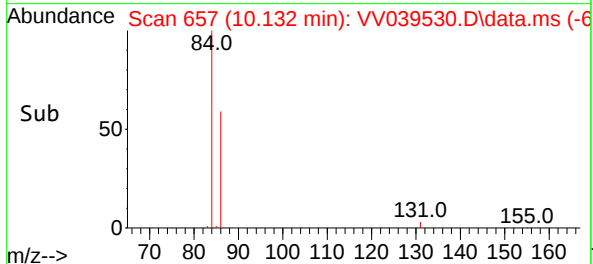
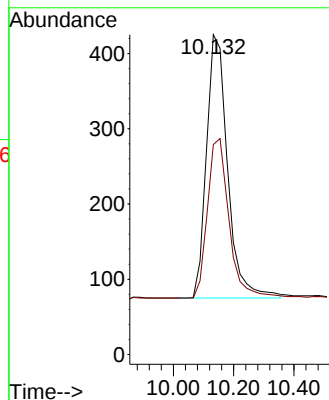
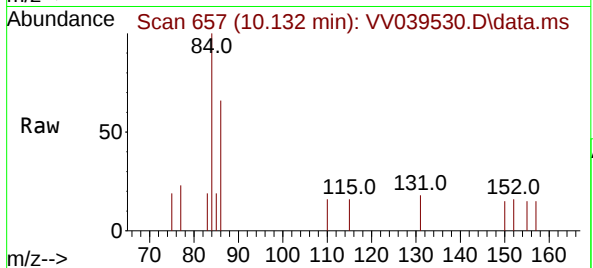
Ion Ratio Lower Upper

84 100

86 61.7 44.4 82.5

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/11/2025
Supervised By :Semsettin Yesilyurt 12/12/2025

#12

1,4-Dichlorobenzene-d4

Concen: 0.500 ug/L

RT: 11.197 min Scan# 705

Delta R.T. 0.022 min

Lab File: VV039530.D

Acq: 10 Dec 2025 14:54

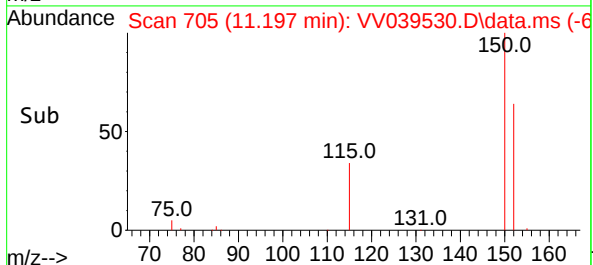
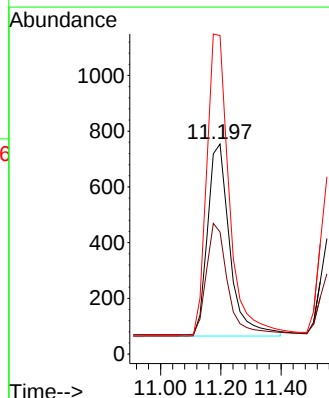
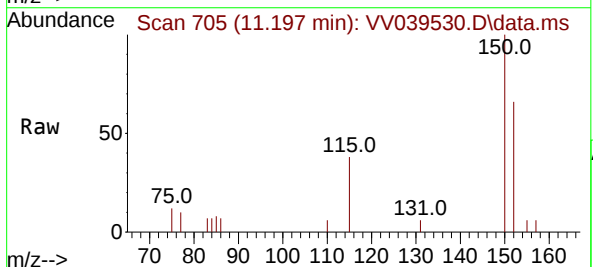
Tgt Ion:152 Resp: 3533

Ion Ratio Lower Upper

152 100

115 55.1 0.0 101.6

150 158.7 0.0 396.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV121025\
Data File : VV039518.D
Acq On : 10 Dec 2025 09:36
Operator : SY/MD
Sample : VV1210WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK239

A
B
C
D
E
F
G
H
I
J

Quant Time: Dec 11 00:05:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration

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

Internal Standards					
1) 1,4-Difluorobenzene	5.566	114	5966	0.500 ug/L	0.00
5) Chlorobenzene-d5	8.800	117	5775	0.500 ug/L	0.02
12) 1,4-Dichlorobenzene-d4	11.197	152	2945	0.500 ug/L	0.02

System Monitoring Compounds					
2) Vinyl Chloride-d3	1.294	65	3410	0.582 ug/L	0.00
Spiked Amount	0.500	Range	40 - 130	Recovery	= 116.000%
4) 1,2-Dichloroethane-d4	4.969	65	1886	0.475 ug/L	0.00
Spiked Amount	0.500	Range	70 - 130	Recovery	= 94.000%
7) 1,2-Dichloropropane-d6	5.995	67	2149	0.441 ug/L	-0.02
Spiked Amount	0.500	Range	60 - 140	Recovery	= 88.000%
8) Toluene-d8	7.253	98	4093	0.498 ug/L	0.02
Spiked Amount	0.500	Range	70 - 130	Recovery	= 100.000%
10) 1,1,2,2-Tetrachloroeth...	10.133	84	1521	0.554 ug/L	0.00
Spiked Amount	0.500	Range	65 - 120	Recovery	= 110.000%

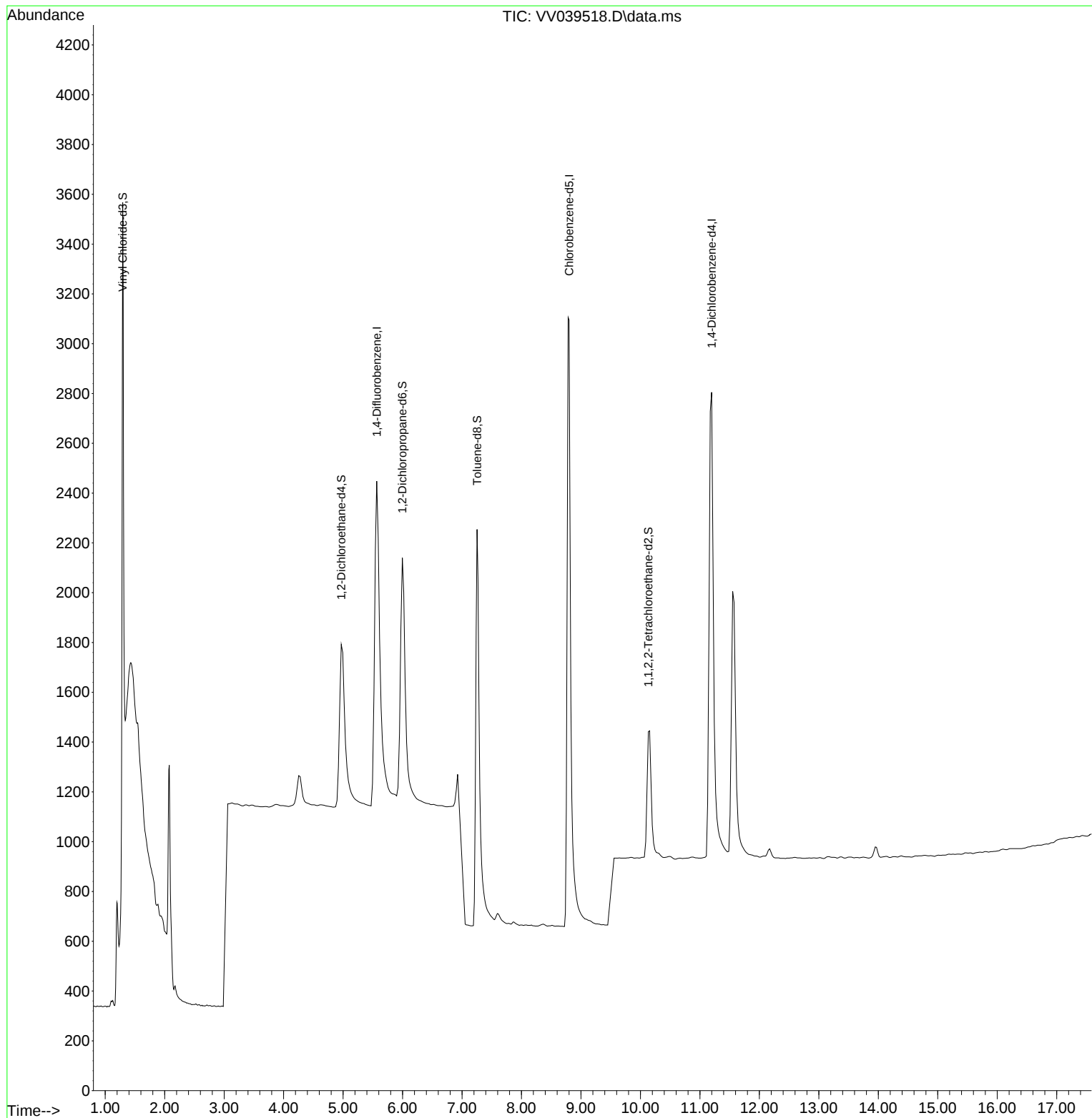
Target Compounds	Qvalue

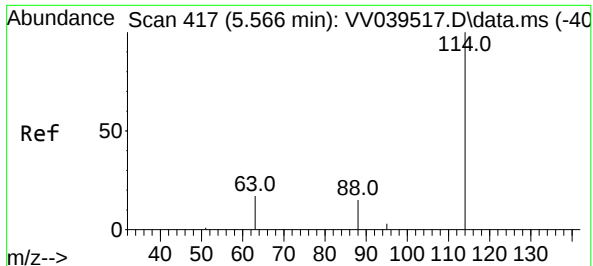
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV121025\
Data File : VV039518.D
Acq On : 10 Dec 2025 09:36
Operator : SY/MD
Sample : VV1210WBL01
Misc : 25.0 mL/MSVOA_V/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VBLK239

Quant Time: Dec 11 00:05:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVSIM120325MA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Dec 09 08:40:48 2025
Response via : Initial Calibration

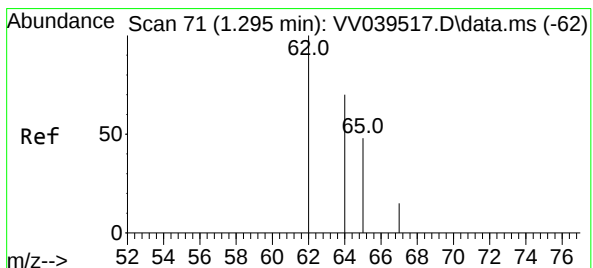
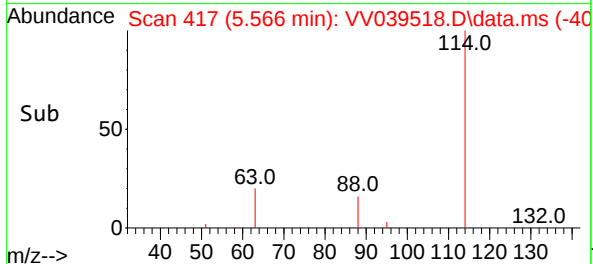
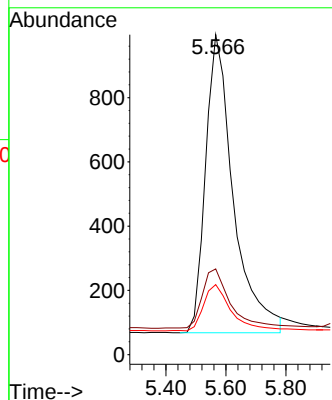
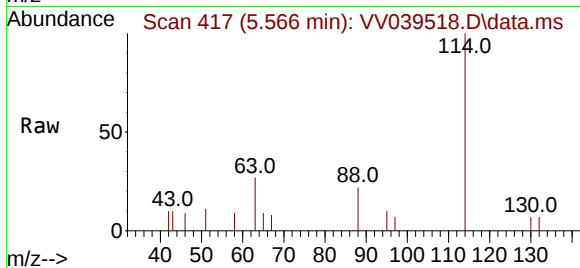




#1
1,4-Difluorobenzene
Concen: 0.500 ug/L
RT: 5.566 min Scan# 417
Delta R.T. -0.000 min
Lab File: VV039518.D
Acq: 10 Dec 2025 09:36

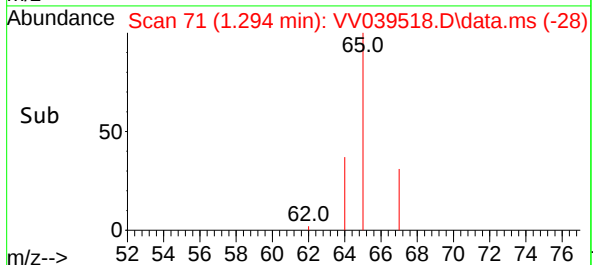
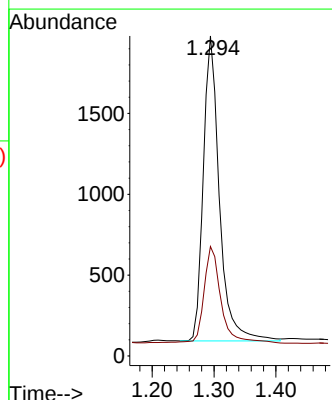
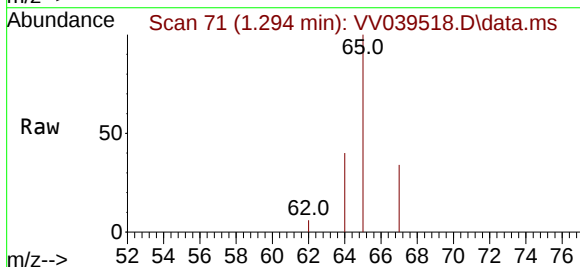
Instrument :
MSVOA_V
ClientSampleId :
VBLK239

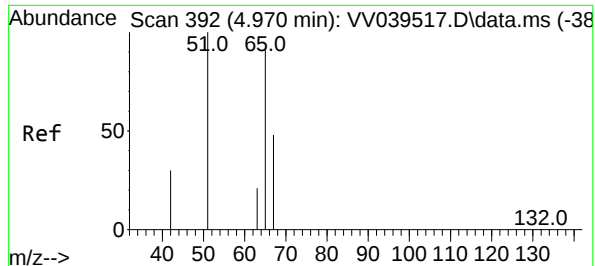
Tgt Ion:114	Resp:	5966
Ion	Ratio	Lower Upper
114	100	
63	20.1	15.0 22.4
88	15.4	12.0 18.0



#2
Vinyl Chloride-d3
Concen: 0.582 ug/L
RT: 1.294 min Scan# 71
Delta R.T. 0.000 min
Lab File: VV039518.D
Acq: 10 Dec 2025 09:36

Tgt Ion: 65	Resp:	3410
Ion	Ratio	Lower Upper
65	100	
67	34.0	22.3 41.5

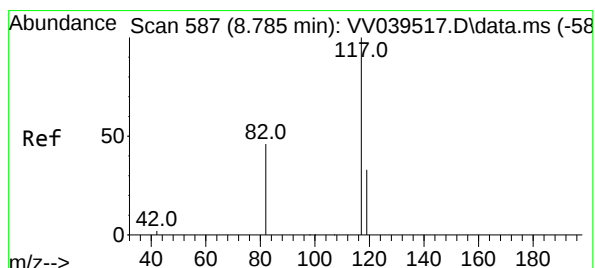
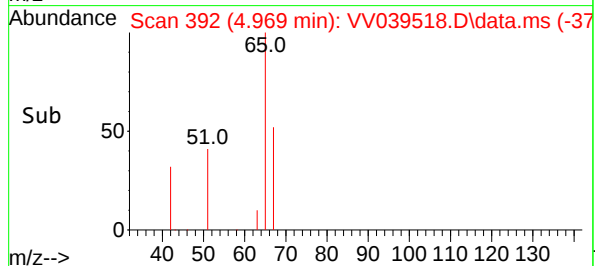
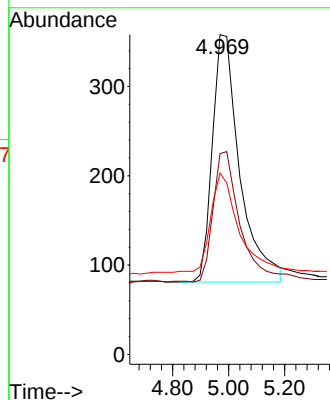
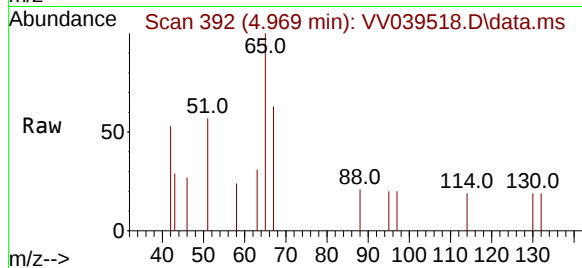




#4
1,2-Dichloroethane-d4
Concen: 0.475 ug/L
RT: 4.969 min Scan# 392
Delta R.T. 0.000 min
Lab File: VV039518.D
Acq: 10 Dec 2025 09:36

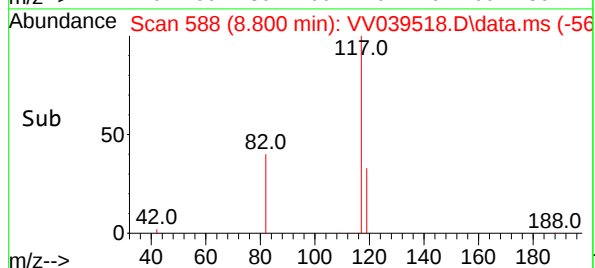
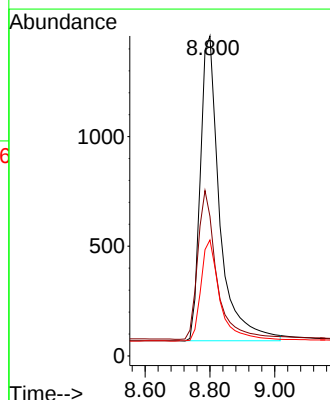
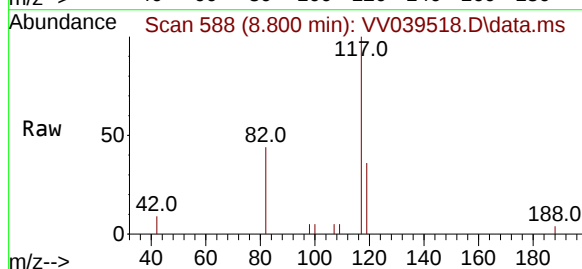
Instrument :
MSVOA_V
ClientSampleId :
VBLK239

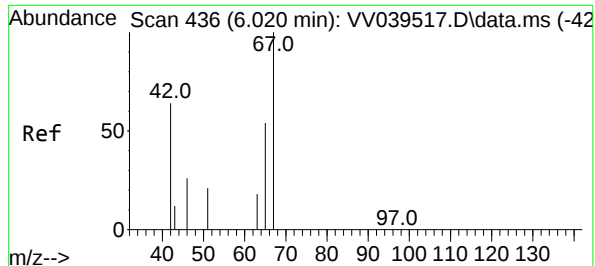
Tgt Ion: 65 Resp: 1886
Ion Ratio Lower Upper
65 100
67 51.6 32.5 60.3
51 41.7 121.4 225.6#



#5
Chlorobenzene-d5
Concen: 0.500 ug/L
RT: 8.800 min Scan# 588
Delta R.T. 0.015 min
Lab File: VV039518.D
Acq: 10 Dec 2025 09:36

Tgt Ion: 117 Resp: 5775
Ion Ratio Lower Upper
117 100
82 47.8 39.4 59.2
119 32.9 26.2 39.2





#7

1,2-Dichloropropane-d6

Concen: 0.441 ug/L

RT: 5.995 min Scan# 41

Delta R.T. -0.024 min

Lab File: VV039518.D

Acq: 10 Dec 2025 09:36

Instrument :

MSVOA_V

ClientSampleId :

VBLK239

Tgt Ion: 67 Resp: 2149

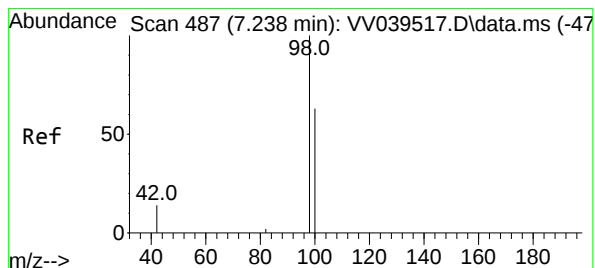
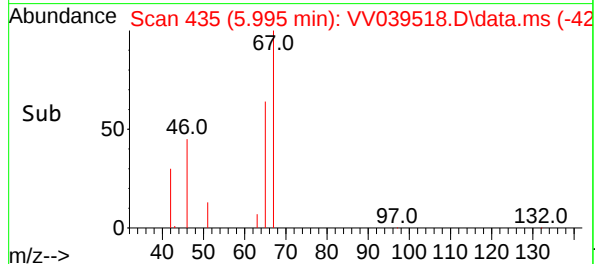
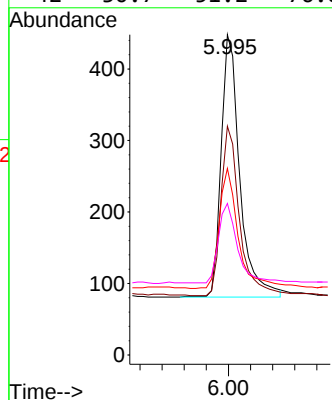
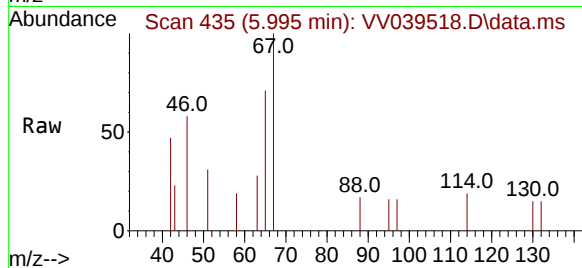
Ion Ratio Lower Upper

67 100

65 64.0 37.9 56.9#

46 46.5 27.4 41.0#

42 30.7 51.2 76.8#



#8

Toluene-d8

Concen: 0.498 ug/L

RT: 7.253 min Scan# 488

Delta R.T. 0.015 min

Lab File: VV039518.D

Acq: 10 Dec 2025 09:36

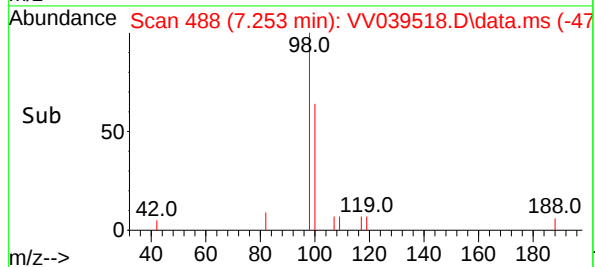
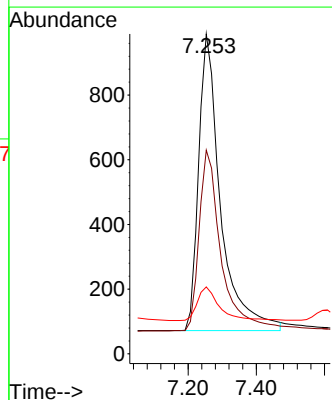
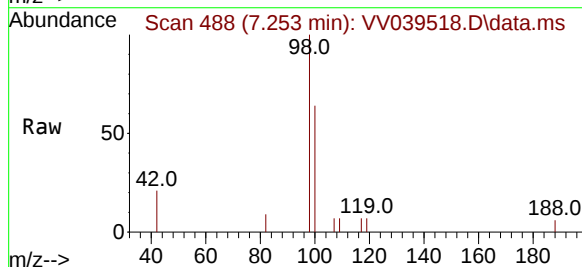
Tgt Ion: 98 Resp: 4093

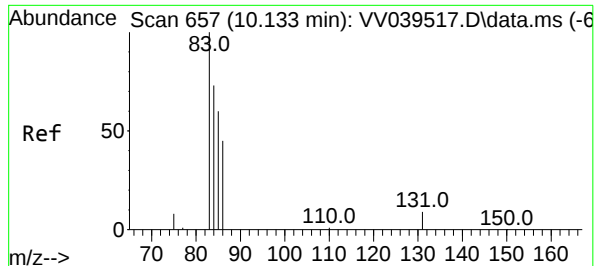
Ion Ratio Lower Upper

98 100

100 60.7 44.5 82.7

42 11.3 10.1 18.7





#10

1,1,2,2-Tetrachloroethane-d2

Concen: 0.554 ug/L

RT: 10.133 min Scan# 61

Delta R.T. -0.000 min

Lab File: VV039518.D

Acq: 10 Dec 2025 09:36

Instrument :

MSVOA_V

ClientSampleId :

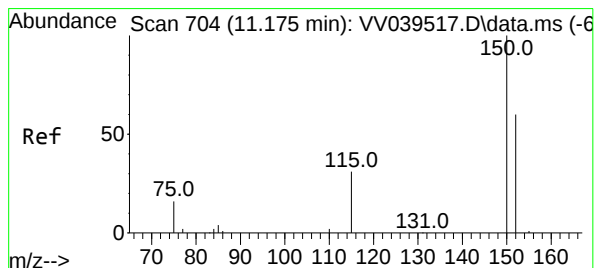
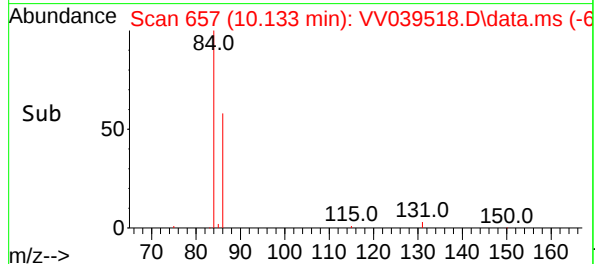
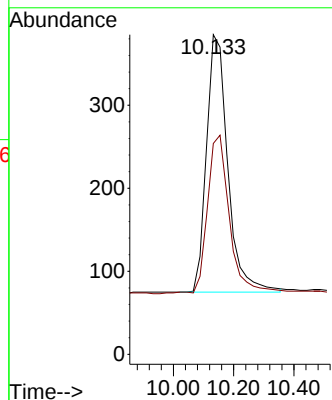
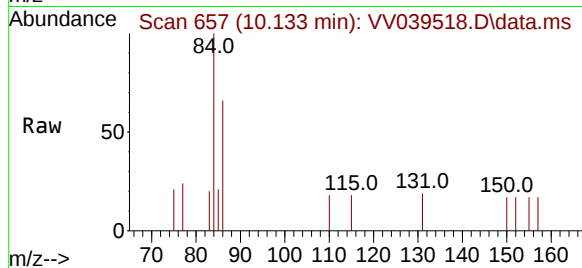
VBLK239

Tgt Ion: 84 Resp: 1521

Ion Ratio Lower Upper

84 100

86 64.0 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: VV039518.D

Acq: 10 Dec 2025 09:36

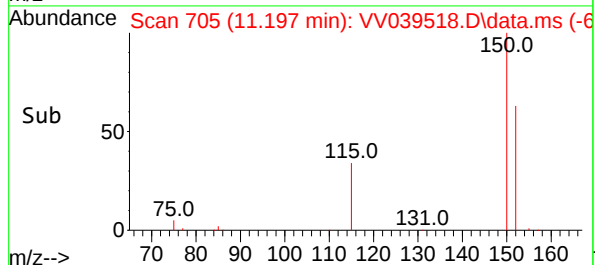
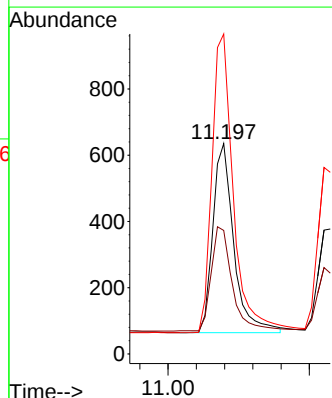
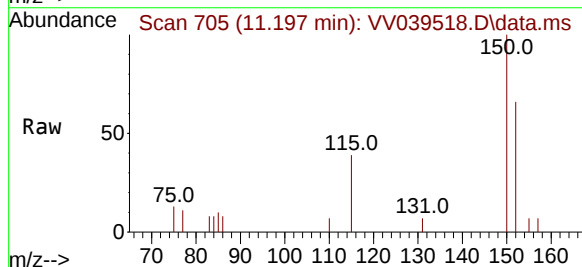
Tgt Ion: 152 Resp: 2945

Ion Ratio Lower Upper

152 100

115 55.2 0.0 101.6

150 160.1 0.0 396.2





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

Manual Integration Report

Sequence:

VV120325

Instrument

MSVOA_v

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VV121025	Instrument	MSVOA_v
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3813-02	VV039525.D	Vinyl Chloride-d3	MMDadoda	12/11/2025 11:43:18 AM	sam	12/12/2025 2:32:49 PM	Peak Integrated by Software
Q3813-03	VV039526.D	Vinyl Chloride-d3	MMDadoda	12/11/2025 11:43:21 AM	sam	12/12/2025 2:32:56 PM	Peak Integrated by Software
Q3813-04	VV039527.D	Vinyl Chloride-d3	MMDadoda	12/11/2025 11:43:26 AM	sam	12/12/2025 2:32:59 PM	Peak Integrated by Software
Q3813-05	VV039530.D	Vinyl Chloride-d3	MMDadoda	12/11/2025 11:43:36 AM	sam	12/12/2025 2:33:05 PM	Peak Integrated by Software

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/QCBatch ID # VV121025

Review By	Mahesh Dadoda	Review On	12/11/2025 11:43:06 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/12/2025 2:33:51 PM
SubDirectory	VV121025	HP Acquire Method	sim_v
		HP Processing Method	SFAMVSIM120325MA.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP136620		
CCC	VP136621,VP136622		
Internal Standard/PEM	VP135611		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB249	VV039516.D	10 Dec 2025 08:29	SY/MD	Ok
2	VSTDCCC0.5	VV039517.D	10 Dec 2025 09:10	SY/MD	Ok
3	VV1210WBL01	VV039518.D	10 Dec 2025 09:36	SY/MD	Ok
4	Q3787-22	VV039519.D	10 Dec 2025 10:19	SY/MD	Ok
5	Q3788-08	VV039520.D	10 Dec 2025 10:40	SY/MD	Ok
6	Q3788-10	VV039521.D	10 Dec 2025 11:02	SY/MD	ReRun
7	Q3788-12	VV039522.D	10 Dec 2025 11:23	SY/MD	Ok,M
8	VIBLK235	VV039523.D	10 Dec 2025 11:58	SY/MD	Ok
9	Q3788-14	VV039524.D	10 Dec 2025 12:35	SY/MD	Not Ok
10	Q3813-02	VV039525.D	10 Dec 2025 13:01	SY/MD	Ok,M
11	Q3813-03	VV039526.D	10 Dec 2025 13:29	SY/MD	Ok,M
12	Q3813-04	VV039527.D	10 Dec 2025 13:51	SY/MD	Ok,M
13	Q3788-10RE	VV039528.D	10 Dec 2025 14:12	SY/MD	Confirms
14	VIBLK236	VV039529.D	10 Dec 2025 14:33	SY/MD	Ok,M
15	Q3813-05	VV039530.D	10 Dec 2025 14:54	SY/MD	Ok,M
16	Q3788-14	VV039531.D	10 Dec 2025 15:16	SY/MD	Ok,M
17	VSTDCCC0.5EC	VV039532.D	10 Dec 2025 15:47	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 # VV121025

Review By	Maresh Dadoda	Review On	12/11/2025 11:43:06 AM
Supervise By	Semsettin Yesilyurt	Supervise On	12/12/2025 2:33:51 PM
SubDirectory	VV121025	HP Acquire Method	sim_v
		HP Processing Method	SFAMVSIM120325MA.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP136620
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP136621,VP136622 VP135611

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB249	BFB249	VV039516.D	10 Dec 2025 08:29		SY/MD	Ok
2	VSTDCCC0.5	VSTD0.5341	VV039517.D	10 Dec 2025 09:10	pH#lot#v14222	SY/MD	Ok
3	VV1210WBL01	VBLK239	VV039518.D	10 Dec 2025 09:36		SY/MD	Ok
4	Q3787-22	OW-03B-51.5-120425-S	VV039519.D	10 Dec 2025 10:19	pH#1.0 A	SY/MD	Ok
5	Q3788-08	OW-01B-66.5-120525-S	VV039520.D	10 Dec 2025 10:40	pH#1.0 A	SY/MD	Ok
6	Q3788-10	BR-05-465-120525-SIM	VV039521.D	10 Dec 2025 11:02	pH#1.0 A ,Surrogate Fail	SY/MD	ReRun
7	Q3788-12	MW-16B-87.5-120525-S	VV039522.D	10 Dec 2025 11:23	pH#1.0 A ,Internal Standard Fail	SY/MD	Ok,M
8	VIBLK235	VIBLK235	VV039523.D	10 Dec 2025 11:58		SY/MD	Ok
9	Q3788-14	VHBLK001	VV039524.D	10 Dec 2025 12:35	SB;Need to run sample	SY/MD	Not Ok
10	Q3813-02	BR-04DR-451-120825-S	VV039525.D	10 Dec 2025 13:01	pH#1.0 A	SY/MD	Ok,M
11	Q3813-03	EB01-120825	VV039526.D	10 Dec 2025 13:29	pH#1.0 A ,EB	SY/MD	Ok,M
12	Q3813-04	TB01-120825	VV039527.D	10 Dec 2025 13:51	pH#1.0 A ,TB	SY/MD	Ok,M
13	Q3788-10RE	BR-05-465-120525-SIM	VV039528.D	10 Dec 2025 14:12	pH#1.0 B, Surrogate Fail	SY/MD	Confirms
14	VIBLK236	VIBLK236	VV039529.D	10 Dec 2025 14:33		SY/MD	Ok,M
15	Q3813-05	VHBLK001	VV039530.D	10 Dec 2025 14:54	pH#1.0 A ,SB	SY/MD	Ok,M
16	Q3788-14	VHBLK001	VV039531.D	10 Dec 2025 15:16	pH#1.0 A ,SB	SY/MD	Ok,M
17	VSTDCCC0.5EC	VSTD0.5342	VV039532.D	10 Dec 2025 15:47		SY/MD	Ok

M : Manual Integration

LAB CHRONICLE

OrderID:	Q3813	OrderDate:	12/8/2025 4:06:00 PM
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
Q3813-02	BR-04DR-451-120825 -SIM	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25
Q3813-03	EB01-120825	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25
Q3813-04	TB01-120825	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25
Q3813-05	VHBLK001	Water	VOC-SIM	SFAM_VOCSI M	12/08/25		12/10/25	12/08/25



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

Hit Summary Sheet SW-846

SDG No.: Q3813
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	BR-04DR-451-120825						
Q3813-01	BR-04DR-451-120825	WATER	1,4-Dioxane	2.000	0.07	0.2	ug/L
			Total Svoc :	2.00			
			Total Concentration:	2.00			



SAMPLE DATA

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected: 12/08/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/08/25	
Client Sample ID: BR-04DR-451-120825	SDG No.: Q3813	
Lab Sample ID: Q3813-01	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 990 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/11/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	2.00		1	0.070	0.20	ug/L	12/12/25 11:12	PB170912
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.25			30 (47) - 150 (106)	63%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 (54) - 150 (157)	90%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.30			30 (56) - 130 (116)	74%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.27			30 (50) - 130 (126)	68%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.42			30 (54) - 130 (175)	106%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	5530							
1146-65-2	Naphthalene-d8	14900							
15067-26-2	Acenaphthene-d10	8210							
1517-22-2	Phenanthrene-d10	16000							
1719-03-5	Chrysene-d12	12700							
1520-96-3	Perylene-d12	12500							

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: 12/08/25	
Project: Former Schlumberger STC PTC Site D3868221	Date Received: 12/08/25	
Client Sample ID: EB01-120825	SDG No.: Q3813	
Lab Sample ID: Q3813-03	Matrix: Water	
Analytical Method: SW8270ESIM Level: LOW	% Solid: 0	
Sample Wt/Vol: 910 mL Final Vol: 1000 uL	Test: SVOC-SIMGroup1	
Prep Method : 3510C Prep Date: 12/11/25		

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	12/12/25 11:49	PB170912
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.27			30 (47) - 150 (106)	68%	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)	83%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.29			30 (50) - 130 (126)	73%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.43			30 (54) - 130 (175)	108%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6000							
1146-65-2	Naphthalene-d8	15600							
15067-26-2	Acenaphthene-d10	8460							
1517-22-2	Phenanthrene-d10	16000							
1719-03-5	Chrysene-d12	12300							
1520-96-3	Perylene-d12	12300							

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q3813

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB170912BL	PB170912BL	2-Methylnaphthalene-d10	0.4	0.36	90		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.34	86		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.39	98		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.38	96		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.43	107		30 (54)	130 (175)
PB170912BS	PB170912BS	2-Methylnaphthalene-d10	0.4	0.36	91		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.33	82		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.39	97		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.43	108		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.43	108		30 (54)	130 (175)
PB170912BSD	PB170912BSD	2-Methylnaphthalene-d10	0.4	0.38	95		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.34	84		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.39	97		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.42	106		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.40	100		30 (54)	130 (175)
Q3813-01	BR-04DR-451-120825	2-Methylnaphthalene-d10	0.4	0.25	63		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	90		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	74		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.27	68		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.42	106		30 (54)	130 (175)
Q3813-03	EB01-120825	2-Methylnaphthalene-d10	0.4	0.27	68		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	90		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.33	83		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.29	73		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.43	108		30 (54)	130 (175)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3813

Analytical Method: 8270-Modified

Client: JACOBS Engineering Group, Inc.

DataFile: BN038357.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB170912BS	1,4-Dioxane	0.4	0.29	ug/L	73				20 (65)	160 (116)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3813

Analytical Method: 8270-Modified

Client: JACOBS Engineering Group, Inc.

DataFile: BN038358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB170912BSD	1,4-Dioxane	0.4	0.29	ug/L	73	0			20 (65)	160 (116)	20 (27)

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB170912BL

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q3813

Lab File ID: BN038344.D

Lab Sample ID: PB170912BL

Instrument ID: BNA_N

Date Extracted: 12/11/2025

Matrix: (soil/water) Water

Date Analyzed: 12/12/2025

Level: (low/med) LOW

Time Analyzed: 10:00

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170912BS	PB170912BS	BN038357.D	12/12/2025
BR-04DR-451-120825	Q3813-01	BN038346.D	12/12/2025
EB01-120825	Q3813-03	BN038347.D	12/12/2025
PB170912BSD	PB170912BSD	BN038358.D	12/12/2025

COMMENTS: _____

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.: Q3813
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: BN038342.D
Instrument ID: BNA_N

Contract: JAC005
SDG NO.: Q3813
DFTPP Injection Date: 12/12/2025
DFTPP Injection Time: 08:45

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.3) 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	7
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	13
442	Greater than 50% of mass 198	87.1
443	15.0 - 24.0% of mass 442	15.3 (17.6) 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	BN038343.D	12/12/2025	09:24
PB170912BL	PB170912BL	BN038344.D	12/12/2025	10:00
BR-04DR-451-120825	Q3813-01	BN038346.D	12/12/2025	11:12
EB01-120825	Q3813-03	BN038347.D	12/12/2025	11:49
PB170912BS	PB170912BS	BN038357.D	12/12/2025	18:27
PB170912BSD	PB170912BSD	BN038358.D	12/12/2025	19:03

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3813

Client ID : SSTDCCC0.4

Date Analyzed: 12/12/2025

Lab File ID: BN038343.D

Time Analyzed: 09:24

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	5196	7.724	14288	10.52	7596	14.39
UPPER LIMIT	10392	8.224	28576	11.019	15192	14.887
LOWER LIMIT	2598	7.224	7144	10.019	3798	13.887
EPA SAMPLE NO.						
01 PB170912BL	6576	7.72	16790	10.52	8053	14.39
02 BR-04DR-451-120825	5531	7.72	14873	10.52	8212	14.39
03 EB01-120825	6003	7.72	15645	10.52	8460	14.39
04 PB170912BS	6159	7.72	16009	10.52	7792	14.39
05 PB170912BSD	5504	7.72	14243	10.52	6818	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.: Q3813

Client ID: SSTDCCC0.4

Date Analyzed: 12/12/2025

Lab File ID: BN038343.D

Time Analyzed: 09:24

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	14177	17.148	11670	21.339	12444	23.633
UPPER LIMIT	28354	17.648	23340	21.839	24888	24.133
LOWER LIMIT	7088.5	16.648	5835	20.839	6222	23.133
EPA SAMPLE NO.						
01 PB170912BL	12820	17.15	8612	21.34	9324	23.63
02 BR-04DR-451-120825	16033	17.15	12704	21.34	12519	23.63
03 EB01-120825	16049	17.15	12341	21.34	12255	23.63
04 PB170912BS	13155	17.15	8480	21.34	8947	23.63
05 PB170912BSD	11665	17.15	8305	21.34	8801	23.62

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: PB170912BL	SDG No.:	Q3813
Lab Sample ID: PB170912BL	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: 12/11/25		

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	12/12/25 10:00	PB170912
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.36			30 (47) - 150 (106)	90%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.34			30 (54) - 150 (157)	86%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.39			30 (56) - 130 (116)	98%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.38			30 (50) - 130 (126)	96%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.43			30 (54) - 130 (175)	107%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6580							
1146-65-2	Naphthalene-d8	16800							
15067-26-2	Acenaphthene-d10	8050							
1517-22-2	Phenanthrene-d10	12800							
1719-03-5	Chrysene-d12	8610							
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

Report of Analysis

Client: JACOBS Engineering Group, Inc.	Date Collected:	
Project: Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID: PB170912BS	SDG No.:	Q3813
Lab Sample ID: PB170912BS	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: 12/11/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.29		1	0.070	0.20	ug/L	12/12/25 18:27	PB170912
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.36			30 (47) - 150 (106)	91%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.33			30 (54) - 150 (157)	82%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.39			30 (56) - 130 (116)	97%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.43			30 (50) - 130 (126)	108%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.43			30 (54) - 130 (175)	108%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	6160							
1146-65-2	Naphthalene-d8	16000							
15067-26-2	Acenaphthene-d10	7790							
1517-22-2	Phenanthrene-d10	13200							
1719-03-5	Chrysene-d12	8480							
1520-96-3	Perylene-d12	8950							

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: PB170912BSD	SDG No.:	Q3813
Lab Sample ID: PB170912BSD	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: 12/11/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.29		1	0.070	0.20	ug/L	12/12/25 19:03	PB170912
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.38			30 (47) - 150 (106)	95%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.34			30 (54) - 150 (157)	84%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.39			30 (56) - 130 (116)	97%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.42			30 (50) - 130 (126)	106%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.40			30 (54) - 130 (175)	100%	SPK: 0.4		
INTERNAL STANDARDS		Area Count							
3855-82-1	1,4-Dichlorobenzene-d4	5500							
1146-65-2	Naphthalene-d8	14200							
15067-26-2	Acenaphthene-d10	6820							
1517-22-2	Phenanthrene-d10	11700							
1719-03-5	Chrysene-d12	8310							
1520-96-3	Perylene-d12	8800							

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-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.: Q3813
 Instrument ID: BNA_N Calibration Date/Time: 12/12/2025 09:24
 Lab File ID: BN038343.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	1.007		1.7	20.0
2-Fluorophenol	0.996	0.966		-3.0	20.0
Phenol-d6	1.184	1.162		-1.9	20.0
Nitrobenzene-d5	0.337	0.317		-5.9	20.0
2-Fluorobiphenyl	1.914	1.930		0.8	20.0
2,4,6-Tribromophenol	0.177	0.159		-10.2	20.0
Terphenyl-d14	0.893	0.853		-4.5	20.0
1,4-Dioxane	0.459	0.488		6.3	20.0

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038346.D
Acq On : 12 Dec 2025 11:12
Operator : RC/JU
Sample : Q3813-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 12 11:36:15 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

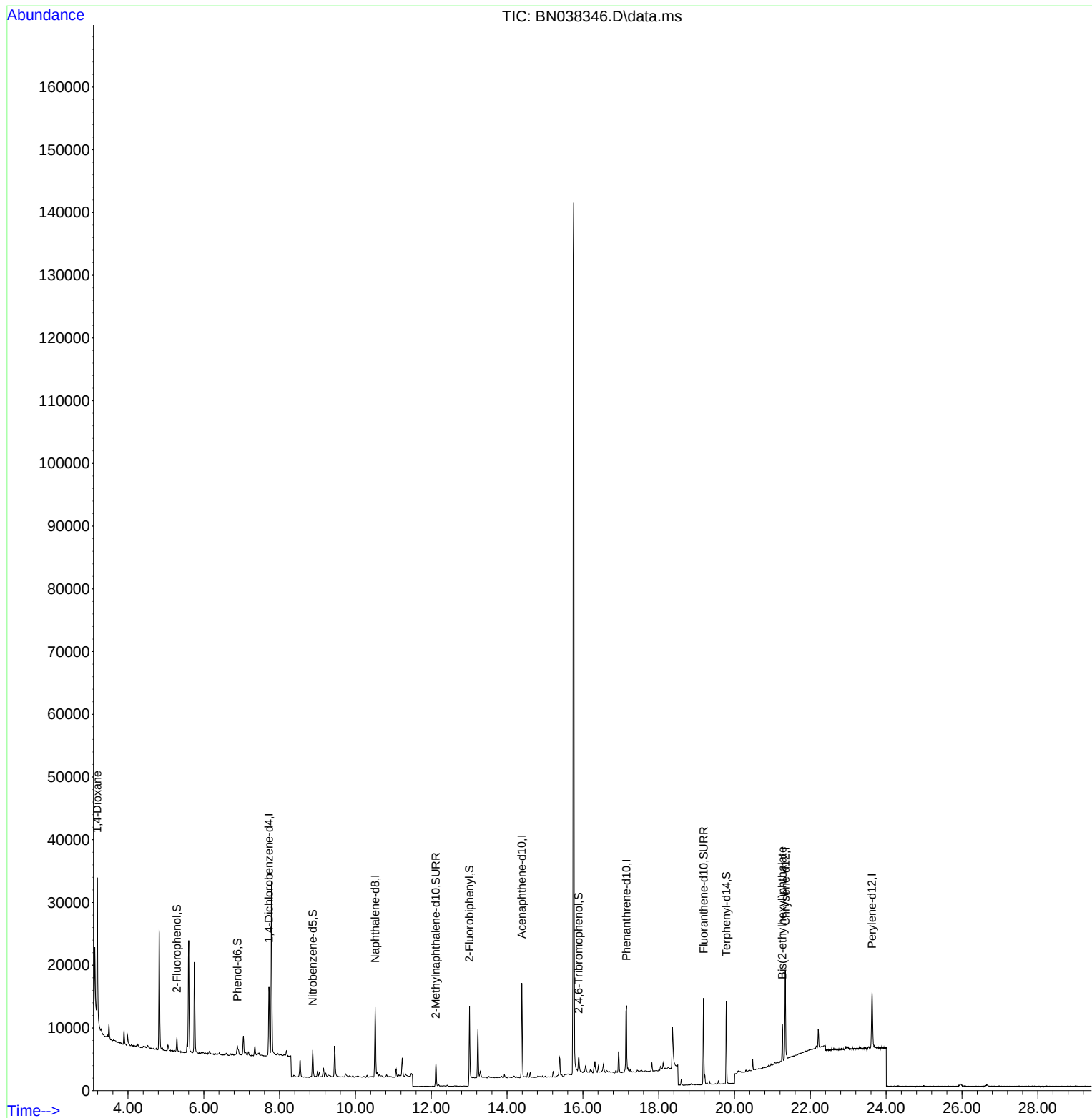
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	5531	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	14873	0.400	ng	#-0.01
13) Acenaphthene-d10	14.387	164	8212	0.400	ng	-0.01
19) Phenanthrene-d10	17.148	188	16033	0.400	ng	0.00
29) Chrysene-d12	21.339	240	12704	0.400	ng	0.00
35) Perylene-d12	23.627	264	12519	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	1723	0.125	ng	0.00
5) Phenol-d6	6.886	99	1260	0.077	ng	0.00
8) Nitrobenzene-d5	8.875	82	3707	0.295	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	5241	0.250	ng	0.00
14) 2,4,6-Tribromophenol	15.882	330	1180	0.324	ng	-0.01
15) 2-Fluorobiphenyl	13.008	172	10813	0.273	ng	0.00
27) Fluoranthene-d10	19.183	212	14269	0.360	ng	0.00
31) Terphenyl-d14	19.782	244	12001	0.423	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.189	88	12591	1.985	ng	# 96
34) Bis(2-ethylhexyl)phtha...	21.259	149	5763	0.214	ng	97

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

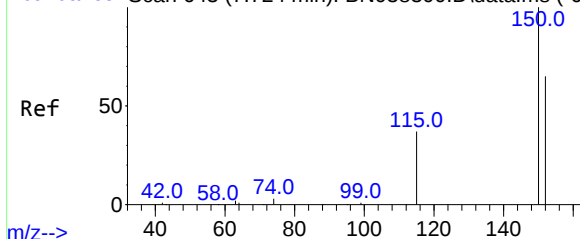
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038346.D
Acq On : 12 Dec 2025 11:12
Operator : RC/JU
Sample : Q3813-01
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

Quant Time: Dec 12 11:36:15 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



Abundance Scan 643 (7.724 min): BN038300.D\data.ms (-63)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.717 min Scan# 64

Delta R.T. -0.007 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

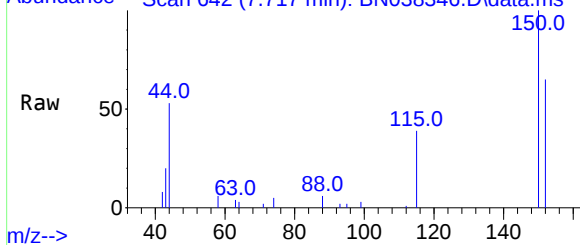
Instrument :

BNA_N

ClientSampleId :

BR-04DR-451-120825

Abundance Scan 642 (7.717 min): BN038346.D\data.ms



Tgt Ion:152 Resp: 5531

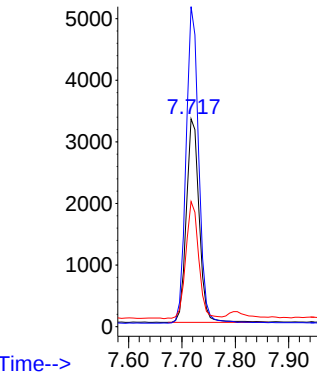
Ion Ratio Lower Upper

152 100

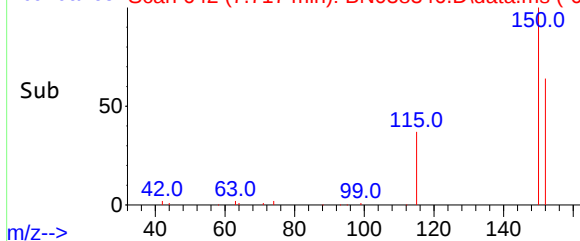
150 154.0 122.4 183.6

115 60.2 47.3 70.9

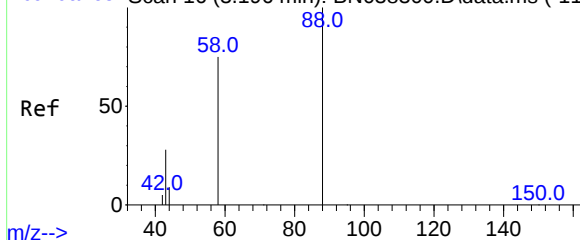
Abundance



Abundance Scan 642 (7.717 min): BN038346.D\data.ms (-61)



Abundance Scan 16 (3.196 min): BN038300.D\data.ms (-11)



#2

1,4-Dioxane

Concen: 1.985 ng

RT: 3.189 min Scan# 15

Delta R.T. -0.007 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

Tgt Ion: 88 Resp: 12591

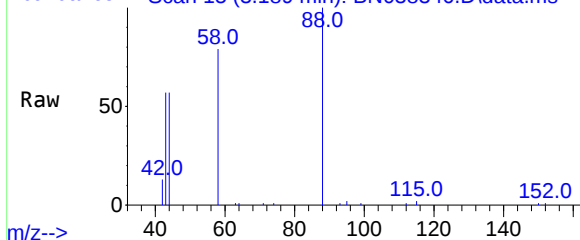
Ion Ratio Lower Upper

88 100

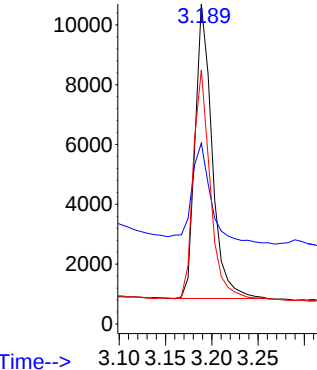
43 38.1 24.9 37.3

58 77.6 61.4 92.0

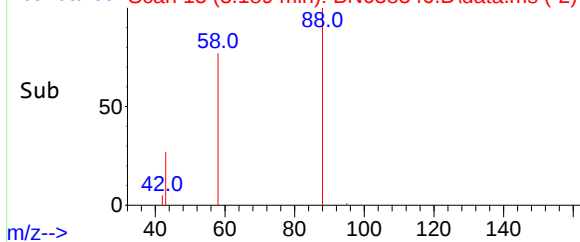
Abundance Scan 15 (3.189 min): BN038346.D\data.ms



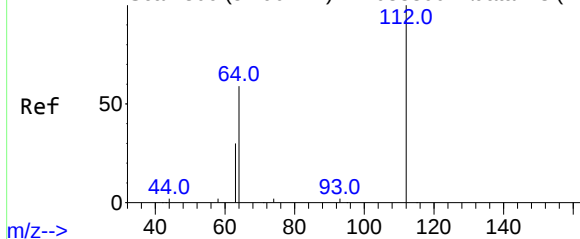
Abundance



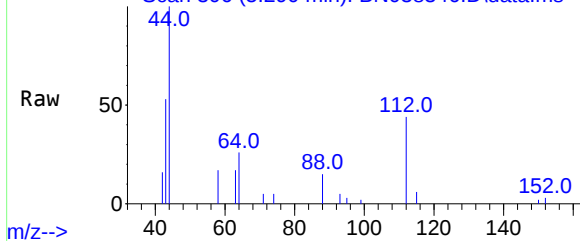
Abundance Scan 15 (3.189 min): BN038346.D\data.ms (-2)



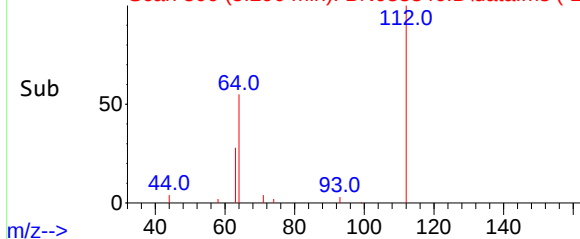
Abundance Scan 306 (5.290 min): BN038300.D\data.ms (-29



Abundance Scan 306 (5.290 min): BN038346.D\data.ms



Abundance Scan 306 (5.290 min): BN038346.D\data.ms (-27



#4

2-Fluorophenol

Concen: 0.125 ng

RT: 5.290 min Scan# 306

Delta R.T. -0.000 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

Instrument :

BNA_N

ClientSampleId :

BR-04DR-451-120825

Tgt Ion:112 Resp: 1723

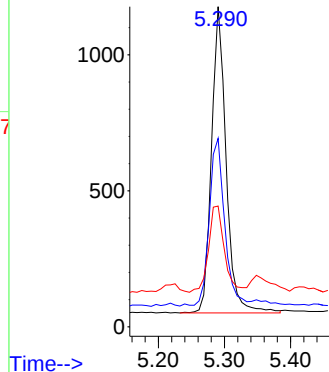
Ion Ratio Lower Upper

112 100

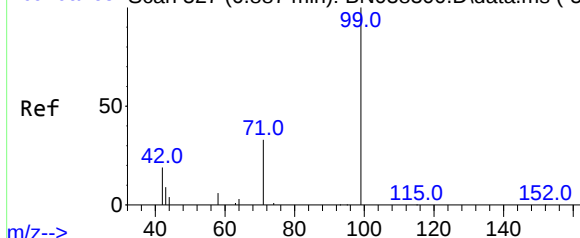
64 58.2 44.4 66.6

63 30.4 23.4 35.0

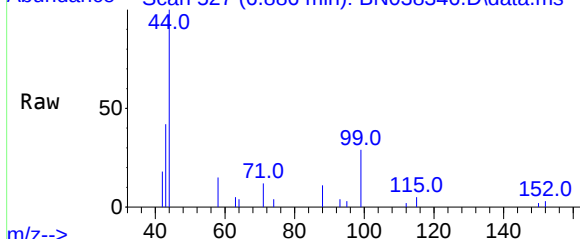
Abundance



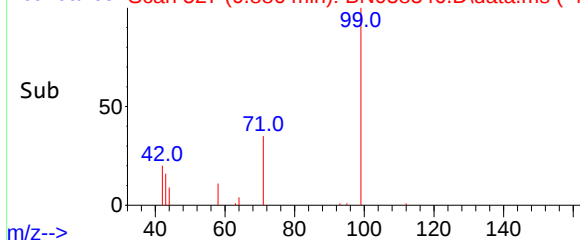
Abundance Scan 527 (6.887 min): BN038300.D\data.ms (-52



Abundance Scan 527 (6.886 min): BN038346.D\data.ms



Abundance Scan 527 (6.886 min): BN038346.D\data.ms (-49



#5

Phenol-d6

Concen: 0.077 ng

RT: 6.886 min Scan# 527

Delta R.T. -0.000 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

Tgt Ion: 99 Resp: 1260

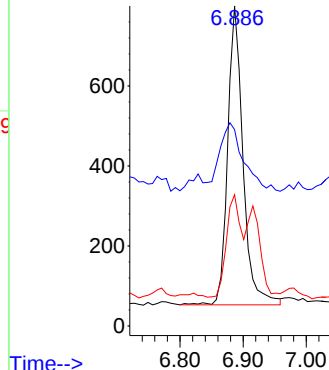
Ion Ratio Lower Upper

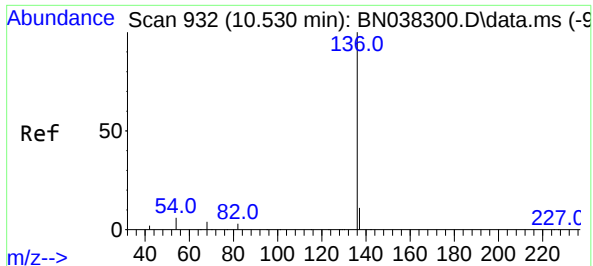
99 100

42 35.4 16.5 24.7#

71 34.4 24.9 37.3

Abundance

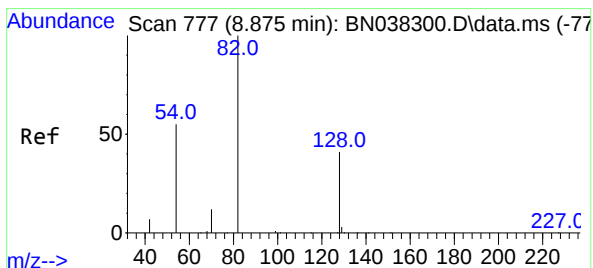
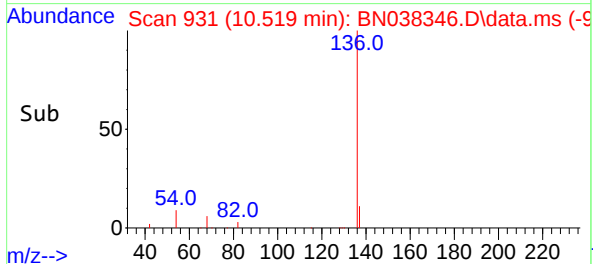
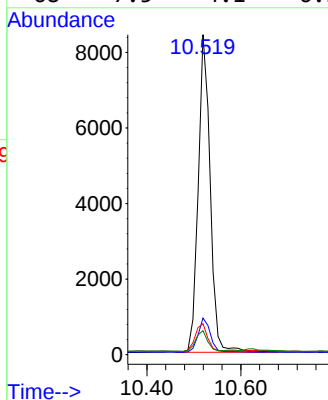
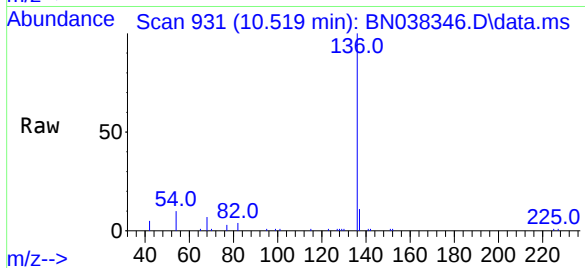




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 911
Delta R.T. -0.011 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

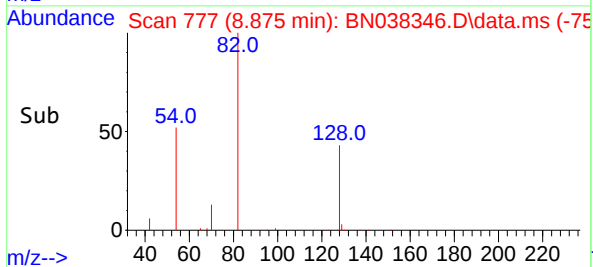
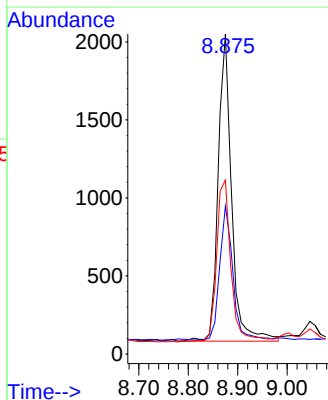
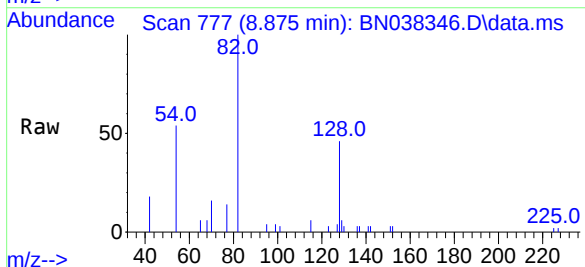
Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

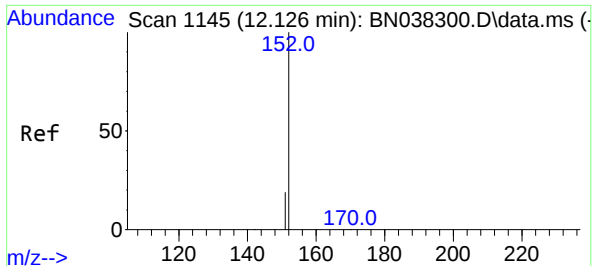
Tgt Ion:	136	Resp:	14873
Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.7	5.2	7.8#
68	7.5	4.1	6.1#



#8
Nitrobenzene-d5
Concen: 0.295 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

Tgt Ion:	82	Resp:	3707
Ion	Ratio	Lower	Upper
82	100		
128	46.2	34.0	51.0
54	54.4	44.4	66.6

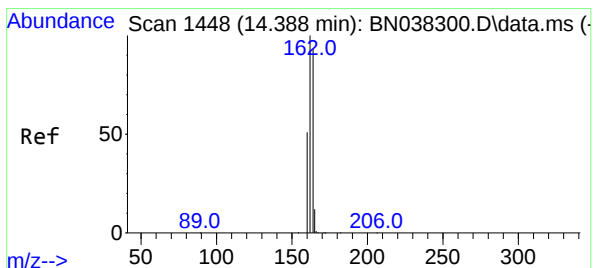
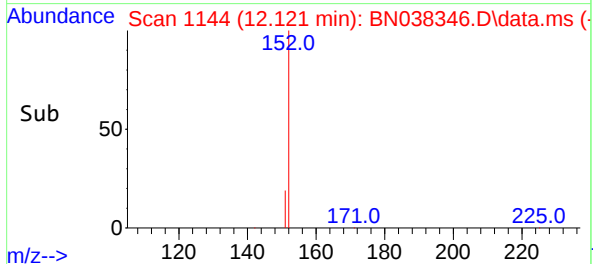
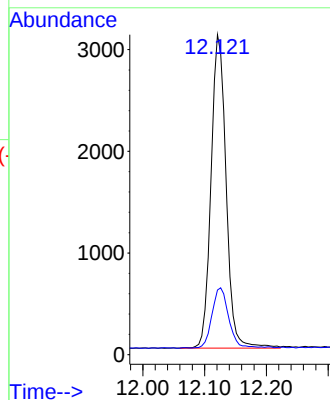
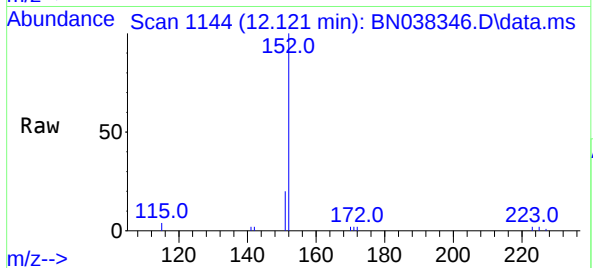




#11
2-Methylnaphthalene-d10
Concen: 0.250 ng
RT: 12.121 min Scan# 1144
Delta R.T. -0.005 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

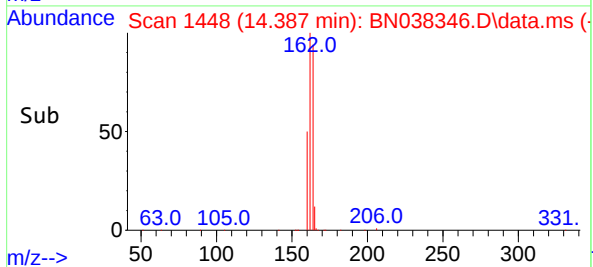
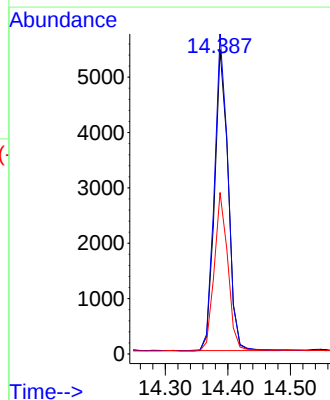
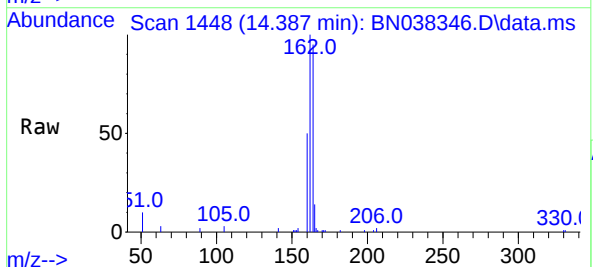
Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

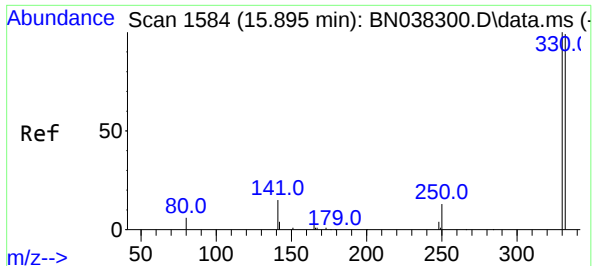
Tgt Ion:152 Resp: 5241
Ion Ratio Lower Upper
152 100
151 21.2 17.0 25.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

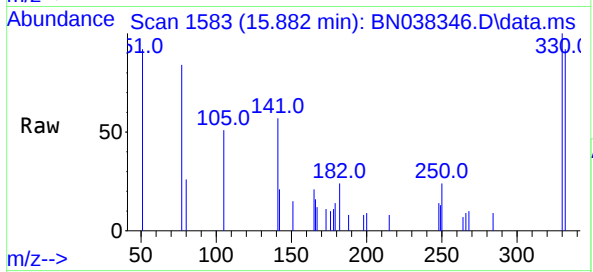
Tgt Ion:164 Resp: 8212
Ion Ratio Lower Upper
164 100
162 105.1 86.2 129.4
160 53.0 44.6 67.0



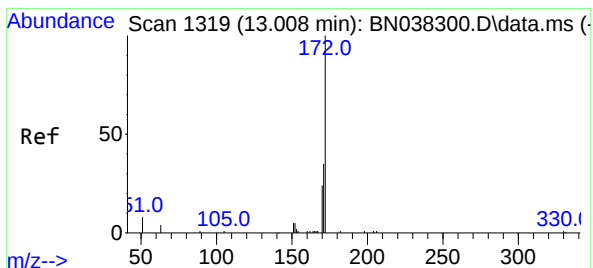
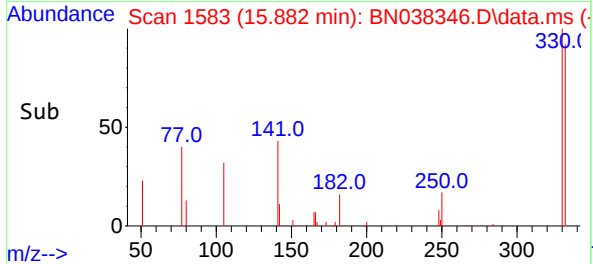
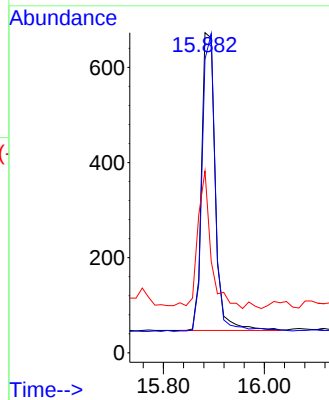


#14
2,4,6-Tribromophenol
Concen: 0.324 ng
RT: 15.882 min Scan# 1583
Delta R.T. -0.013 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

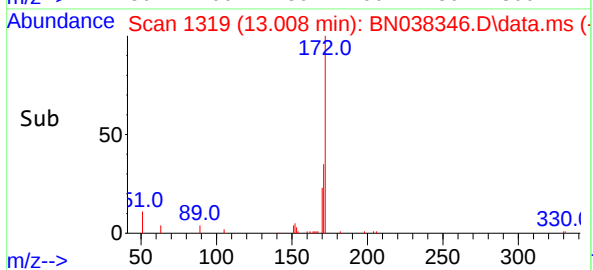
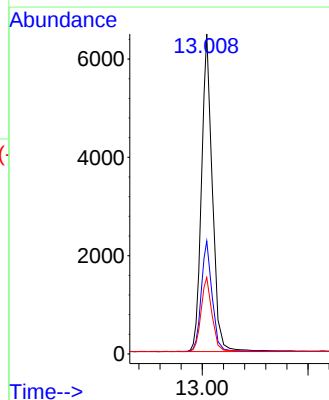
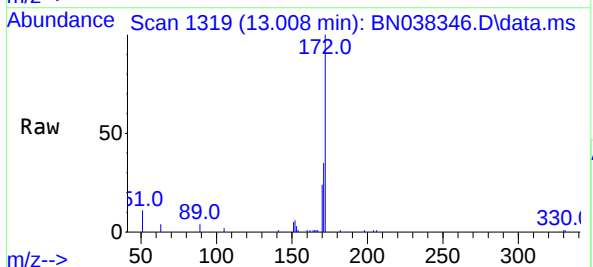


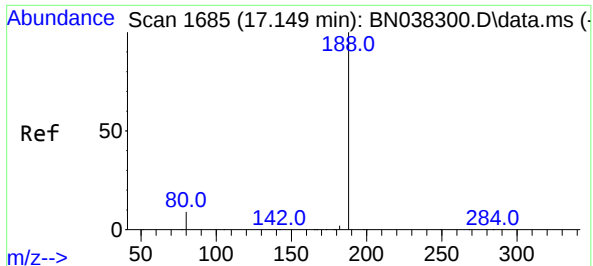
Tgt Ion:330 Resp: 1180
Ion Ratio Lower Upper
330 100
332 96.9 75.8 113.6
141 44.9 31.8 47.8



#15
2-Fluorobiphenyl
Concen: 0.273 ng
RT: 13.008 min Scan# 1319
Delta R.T. -0.000 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

Tgt Ion:172 Resp: 10813
Ion Ratio Lower Upper
172 100
171 35.3 28.6 42.8
170 23.9 19.3 28.9





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.148 min Scan# 1685

Delta R.T. -0.000 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

Instrument :

BNA_N

ClientSampleId :

BR-04DR-451-120825

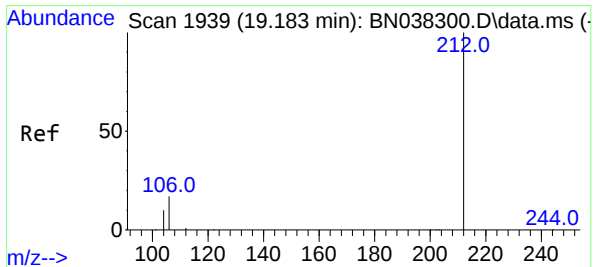
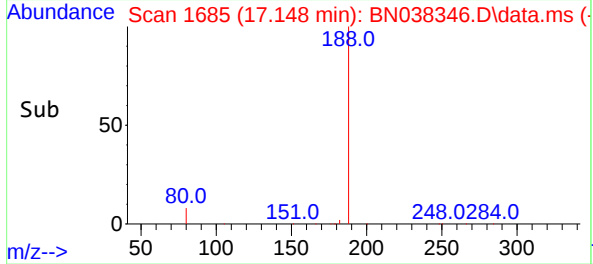
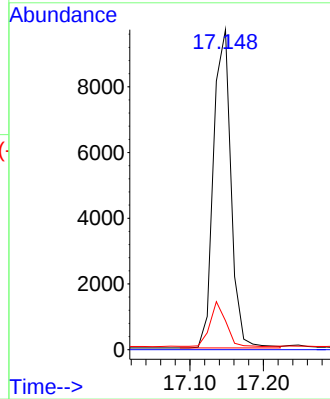
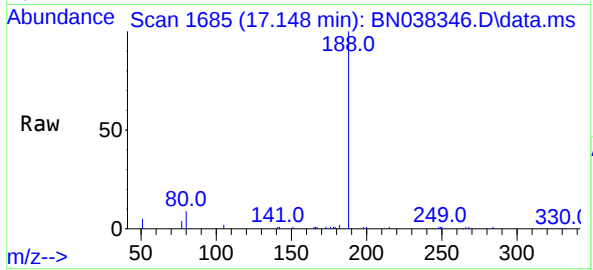
Tgt Ion:188 Resp: 16033

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.4 11.0



#27

Fluoranthene-d10

Concen: 0.360 ng

RT: 19.183 min Scan# 1939

Delta R.T. -0.005 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

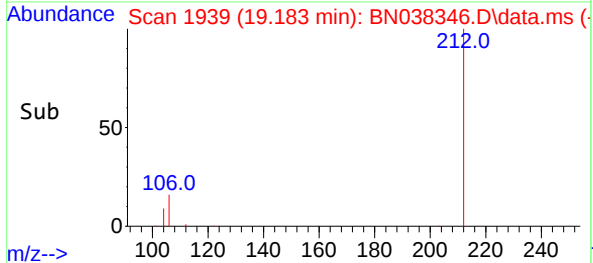
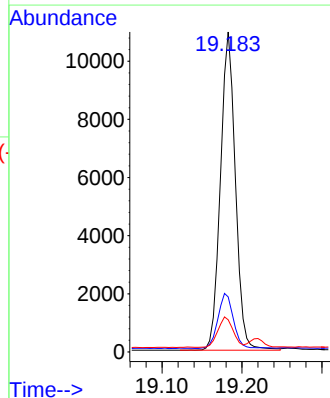
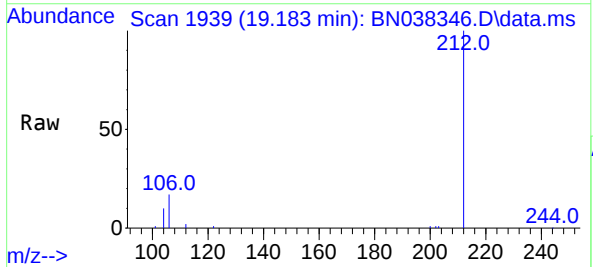
Tgt Ion:212 Resp: 14269

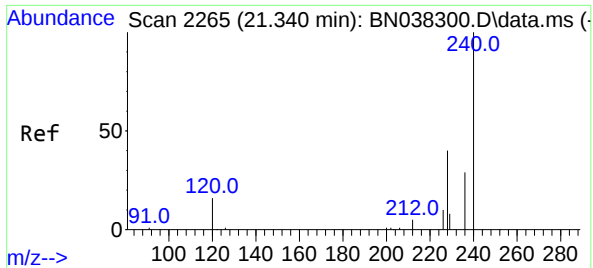
Ion Ratio Lower Upper

212 100

106 17.9 13.7 20.5

104 9.7 7.8 11.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.339 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

Instrument :

BNA_N

ClientSampleId :

BR-04DR-451-120825

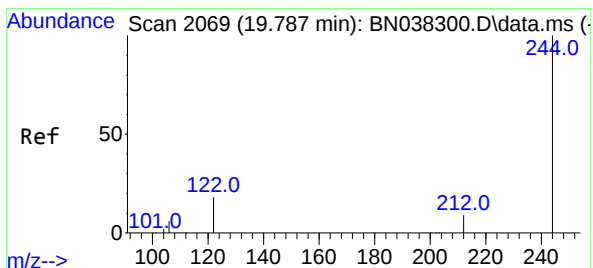
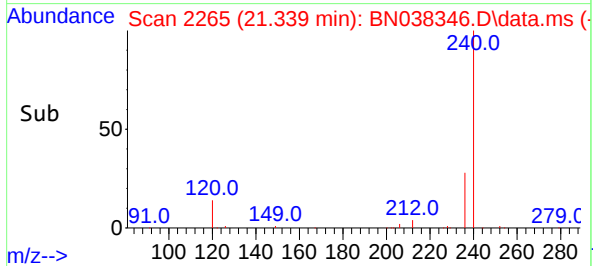
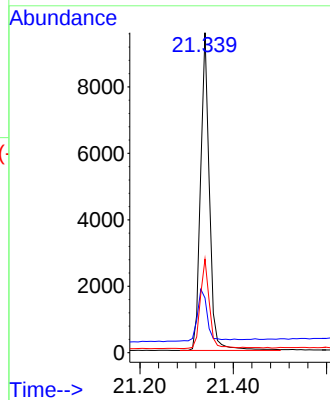
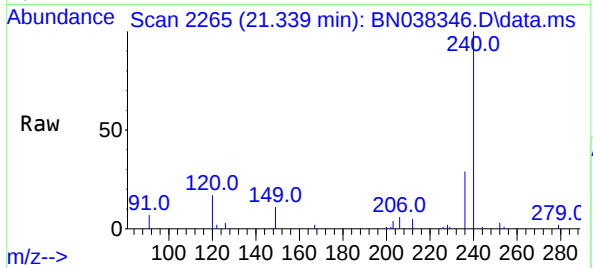
Tgt Ion:240 Resp: 12704

Ion Ratio Lower Upper

240 100

120 17.1 15.4 23.2

236 29.3 23.9 35.9



#31

Terphenyl-d14

Concen: 0.423 ng

RT: 19.782 min Scan# 2068

Delta R.T. -0.009 min

Lab File: BN038346.D

Acq: 12 Dec 2025 11:12

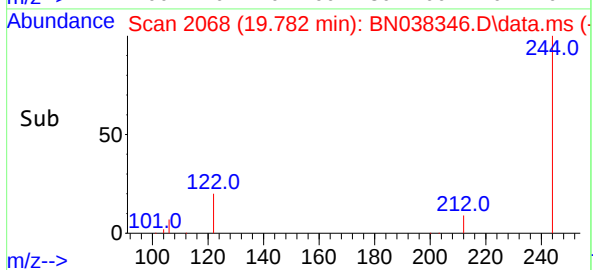
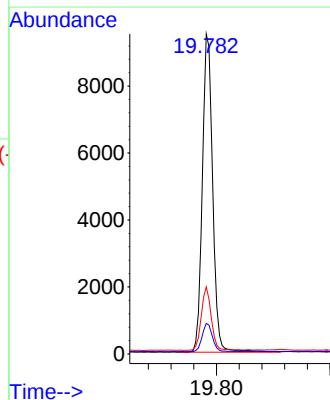
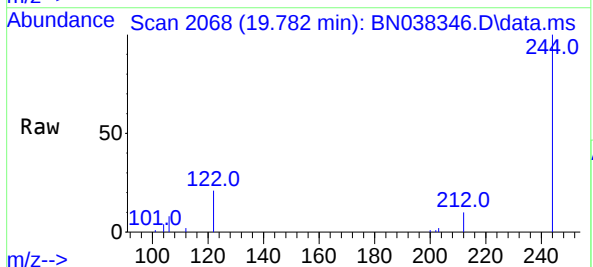
Tgt Ion:244 Resp: 12001

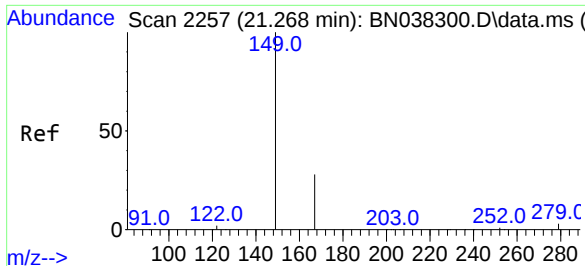
Ion Ratio Lower Upper

244 100

212 9.5 7.9 11.9

122 21.0 15.0 22.6

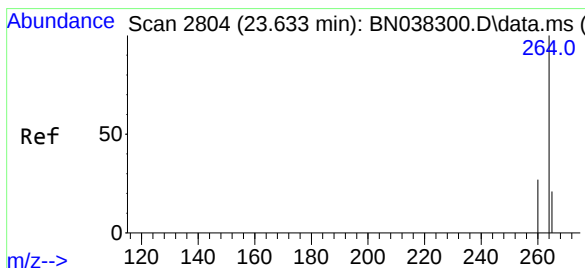
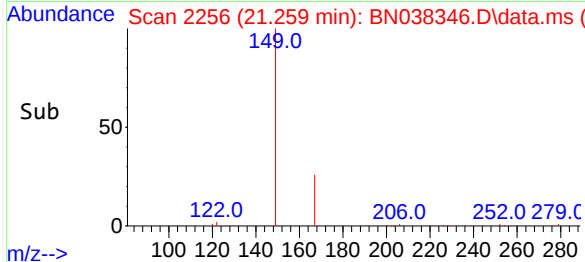
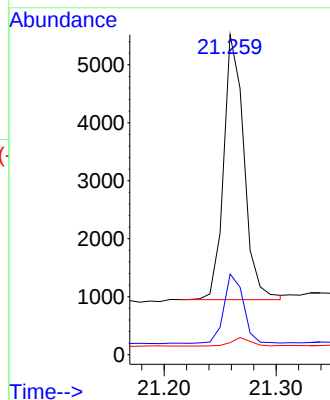
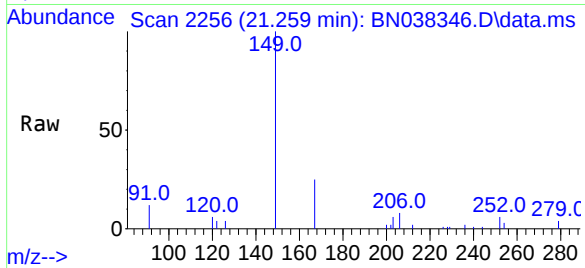




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.214 ng
RT: 21.259 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

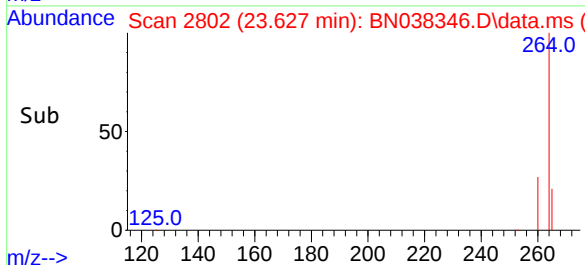
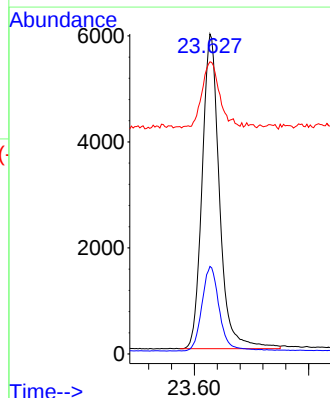
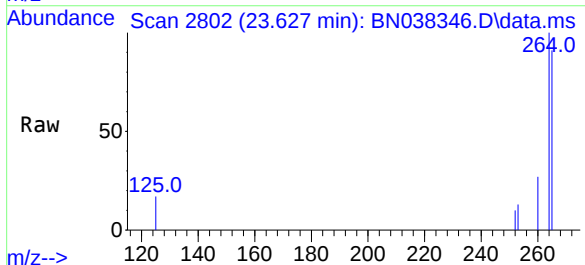
Instrument :
BNA_N
ClientSampleId :
BR-04DR-451-120825

Tgt Ion:149 Resp: 5763
Ion Ratio Lower Upper
149 100
167 25.1 21.4 32.0
279 3.0 2.4 3.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.627 min Scan# 2802
Delta R.T. -0.006 min
Lab File: BN038346.D
Acq: 12 Dec 2025 11:12

Tgt Ion:264 Resp: 12519
Ion Ratio Lower Upper
264 100
260 27.4 22.2 33.2
265 91.3 80.2 120.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038347.D
 Acq On : 12 Dec 2025 11:49
 Operator : RC/JU
 Sample : Q3813-03
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EB01-120825

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 12 12:12:41 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)

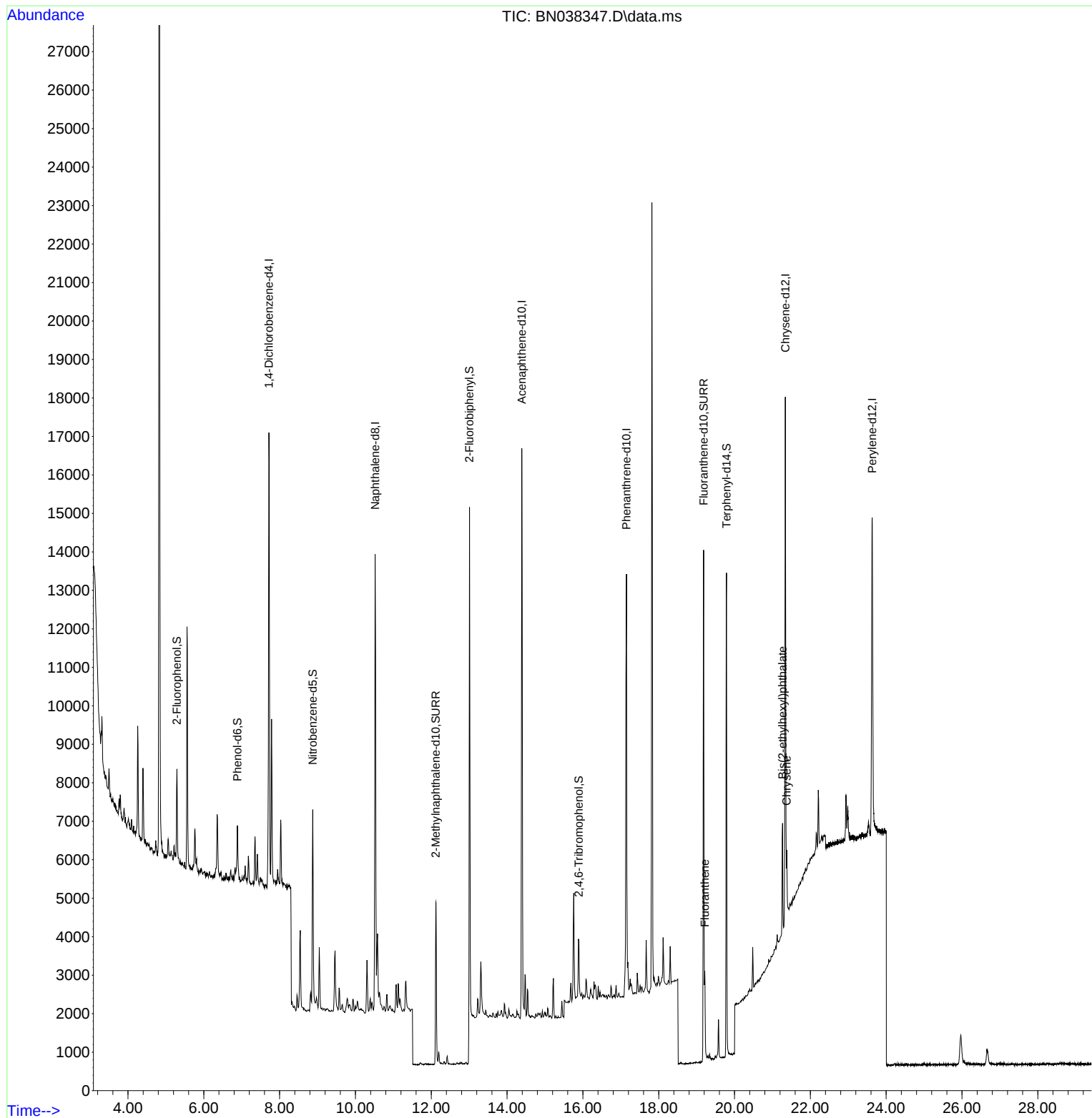
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.717	152	6003	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	15645	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	8460	0.400	ng	-0.01
19) Phenanthrene-d10	17.149	188	16049	0.400	ng	0.00
29) Chrysene-d12	21.340	240	12341	0.400	ng	0.00
35) Perylene-d12	23.630	264	12255	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	1999	0.134	ng	0.00
5) Phenol-d6	6.887	99	1375	0.077	ng	0.00
8) Nitrobenzene-d5	8.875	82	4377	0.332	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	6027	0.273	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	1110	0.296	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	11880	0.291	ng	0.00
27) Fluoranthene-d10	19.183	212	14370	0.362	ng	0.00
31) Terphenyl-d14	19.787	244	11910	0.432	ng	0.00
Target Compounds						
28) Fluoranthene	19.215	202	1366	0.023	ng	# 81
33) Chrysene	21.375	228	1204	0.023	ng	# 90
34) Bis(2-ethylhexyl)phtha...	21.268	149	3031	0.116	ng	97

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

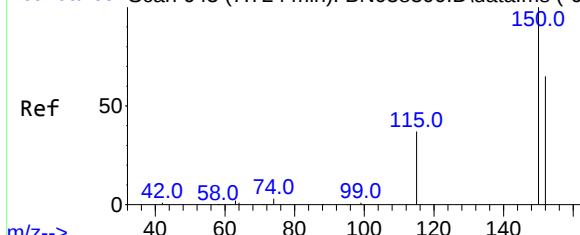
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038347.D
Acq On : 12 Dec 2025 11:49
Operator : RC/JU
Sample : Q3813-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-120825

Quant Time: Dec 12 12:12:41 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



Abundance Scan 643 (7.724 min): BN038300.D\data.ms (-63



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.717 min Scan# 64

Delta R.T. -0.007 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Instrument :

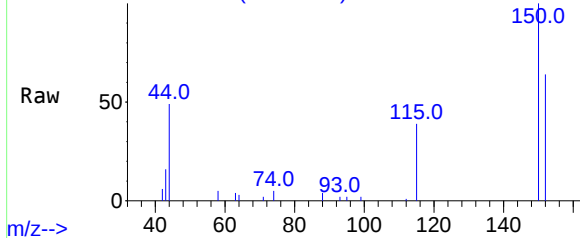
BNA_N

ClientSampleId :

EB01-120825

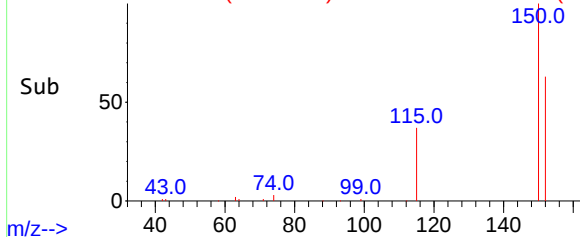
m/z-->

Abundance Scan 642 (7.717 min): BN038347.D\data.ms



m/z-->

Abundance Scan 642 (7.717 min): BN038347.D\data.ms (-61



m/z-->

Tgt Ion:152 Resp: 6003

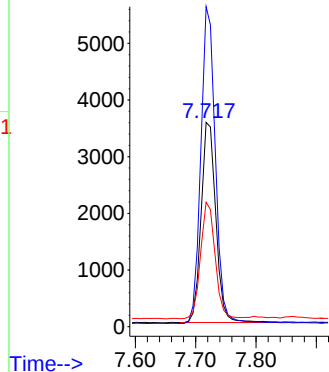
Ion Ratio Lower Upper

152 100

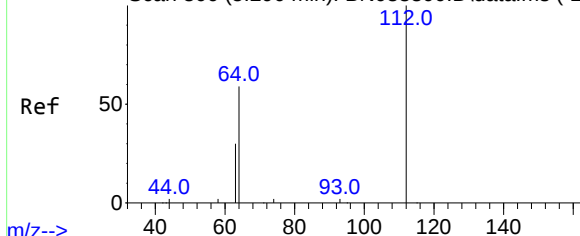
150 156.6 122.4 183.6

115 60.9 47.3 70.9

Abundance

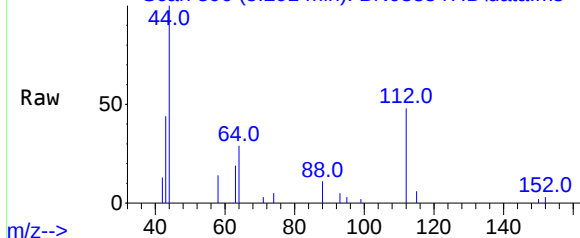


Abundance Scan 306 (5.290 min): BN038300.D\data.ms (-29



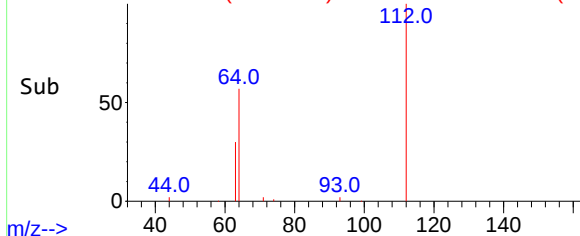
m/z-->

Abundance Scan 306 (5.291 min): BN038347.D\data.ms



m/z-->

Abundance Scan 306 (5.291 min): BN038347.D\data.ms (-27



m/z-->

#4

2-Fluorophenol

Concen: 0.134 ng

RT: 5.291 min Scan# 306

Delta R.T. 0.000 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Tgt Ion:112 Resp: 1999

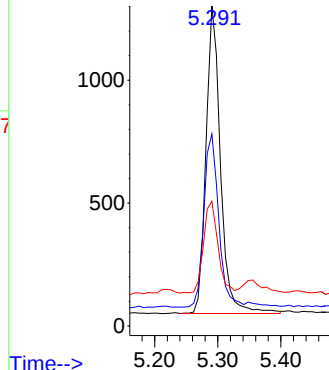
Ion Ratio Lower Upper

112 100

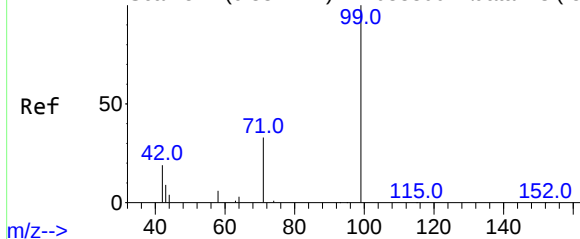
64 57.2 44.4 66.6

63 29.4 23.4 35.0

Abundance



Abundance Scan 527 (6.887 min): BN038300.D\data.ms (-52



#5

Phenol-d6

Concen: 0.077 ng

RT: 6.887 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Instrument :

BNA_N

ClientSampleId :

EB01-120825

Tgt Ion: 99 Resp: 1375

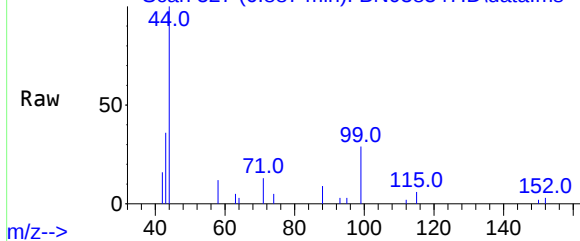
Ion Ratio Lower Upper

99 100

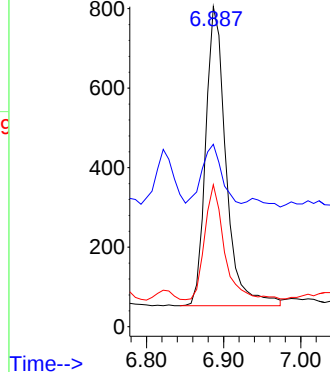
42 19.1 16.5 24.7

71 37.5 24.9 37.3#

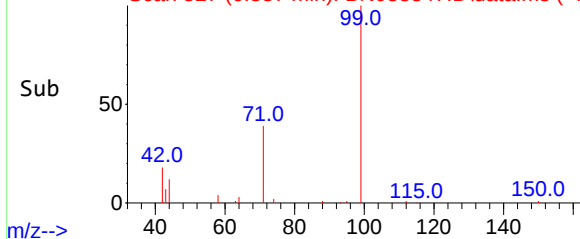
Abundance Scan 527 (6.887 min): BN038347.D\data.ms



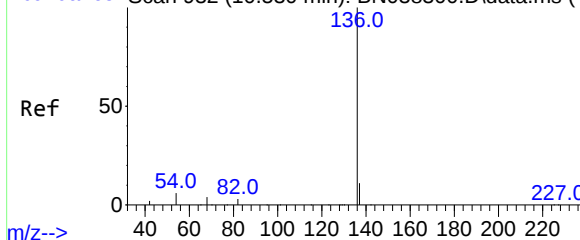
Abundance



Abundance Scan 527 (6.887 min): BN038347.D\data.ms (-49



Abundance Scan 932 (10.530 min): BN038300.D\data.ms (-9



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.520 min Scan# 931

Delta R.T. -0.011 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Tgt Ion: 136 Resp: 15645

Ion Ratio Lower Upper

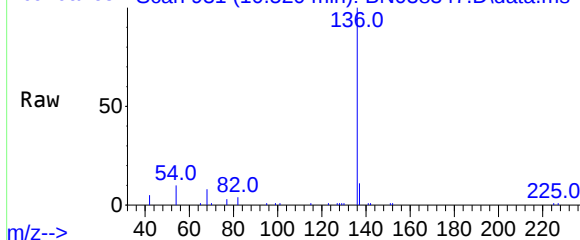
136 100

137 11.5 9.1 13.7

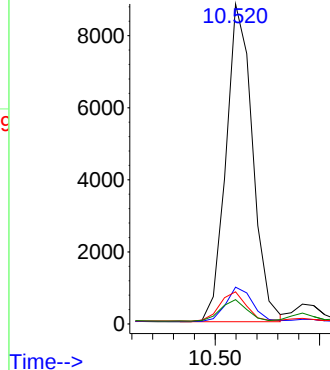
54 10.0 5.2 7.8#

68 7.6 4.1 6.1#

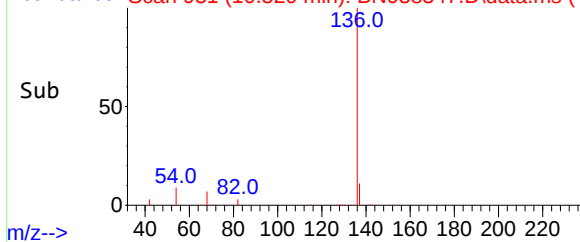
Abundance Scan 931 (10.520 min): BN038347.D\data.ms

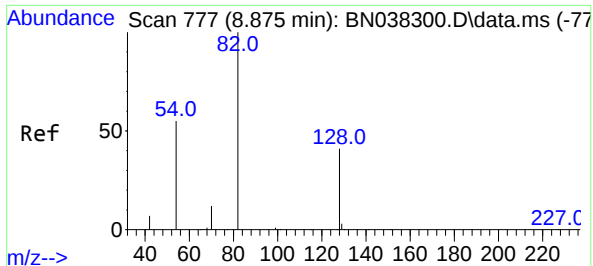


Abundance



Abundance Scan 931 (10.520 min): BN038347.D\data.ms (-9

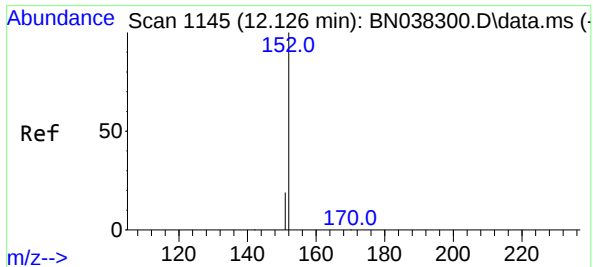
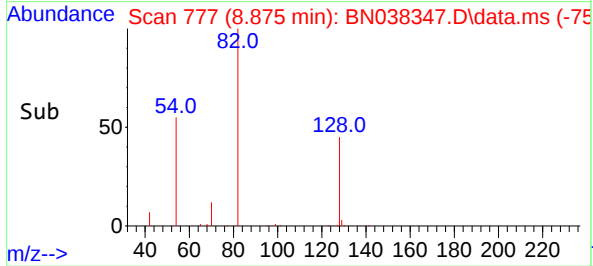
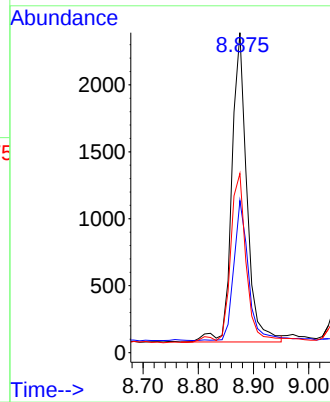
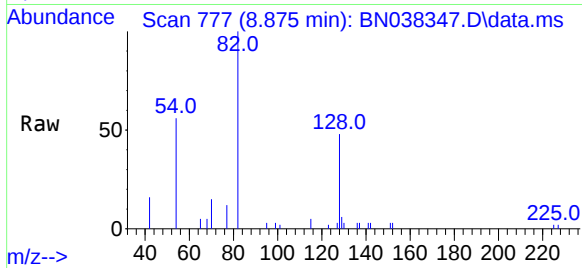




#8
Nitrobenzene-d5
Concen: 0.332 ng
RT: 8.875 min Scan# 71
Delta R.T. 0.000 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

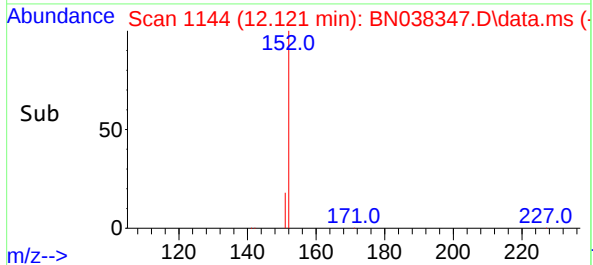
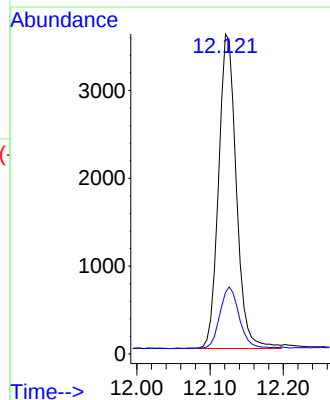
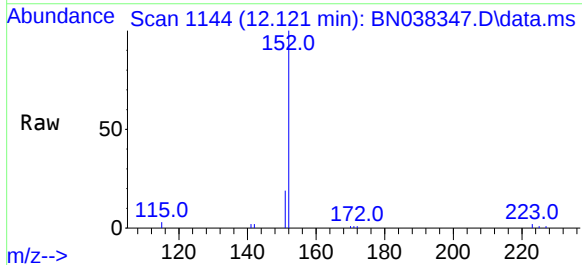
Instrument :
BNA_N
ClientSampleId :
EB01-120825

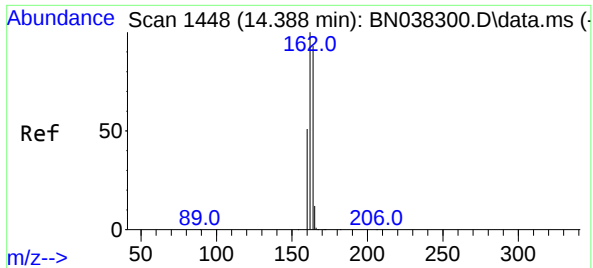
Tgt Ion:	82	Resp:	4377
Ion	Ratio	Lower	Upper
82	100		
128	47.5	34.0	51.0
54	56.0	44.4	66.6



#11
2-Methylnaphthalene-d10
Concen: 0.273 ng
RT: 12.121 min Scan# 1144
Delta R.T. -0.005 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

Tgt Ion:	152	Resp:	6027
Ion	Ratio	Lower	Upper
152	100		
151	21.5	17.0	25.6

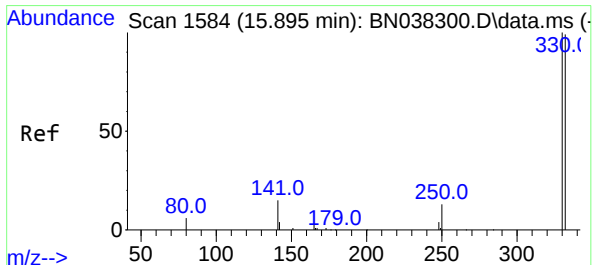
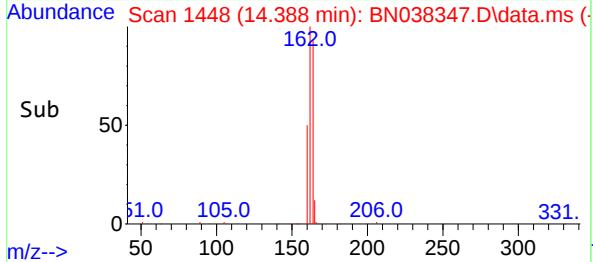
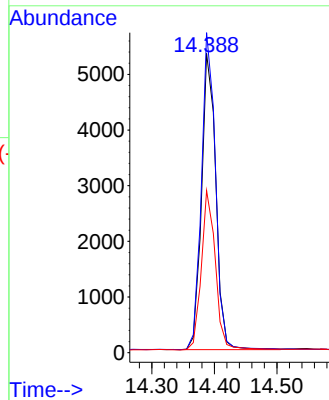
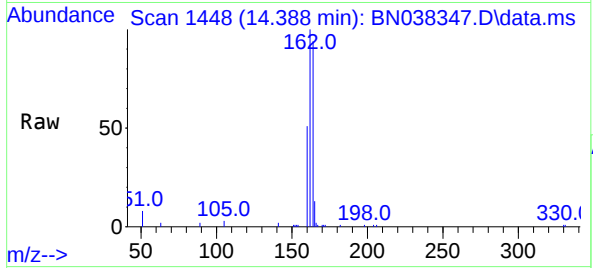




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

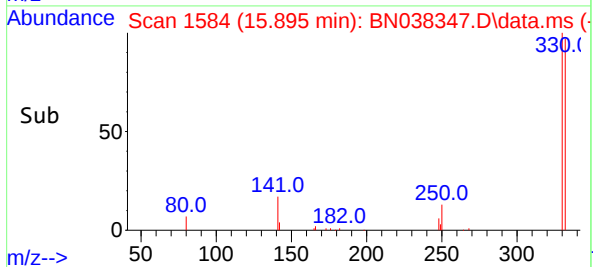
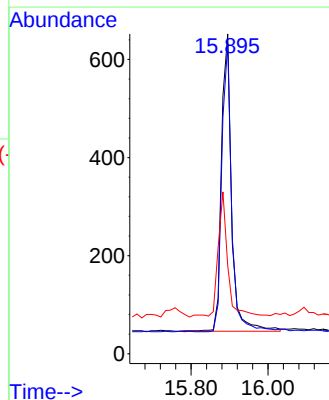
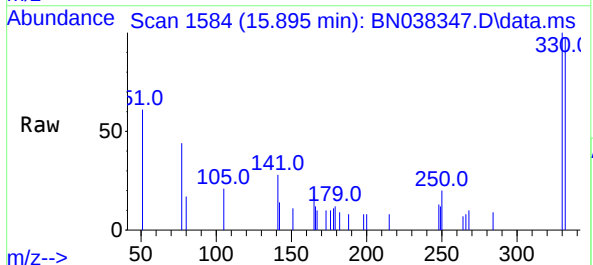
Instrument :
BNA_N
ClientSampleId :
EB01-120825

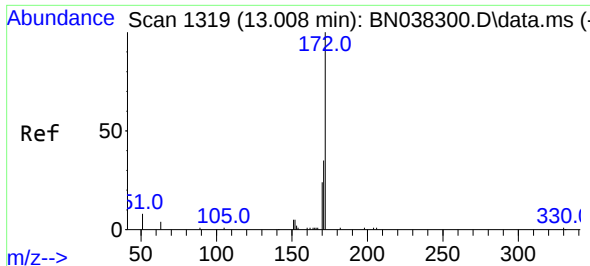
Tgt Ion:	164	Resp:	8460
Ion	Ratio	Lower	Upper
164	100		
162	106.9	86.2	129.4
160	54.1	44.6	67.0



#14
2,4,6-Tribromophenol
Concen: 0.296 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

Tgt Ion:	330	Resp:	1110
Ion	Ratio	Lower	Upper
330	100		
332	93.9	75.8	113.6
141	40.9	31.8	47.8

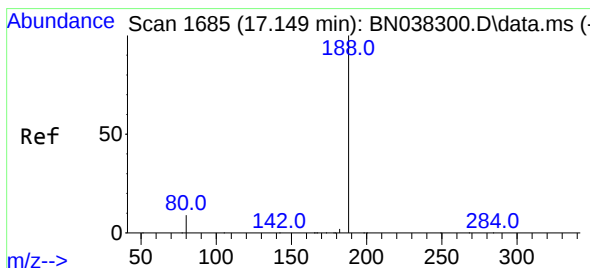
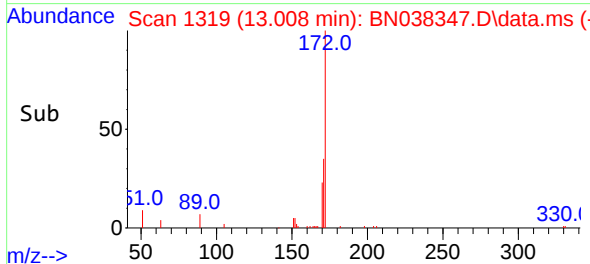
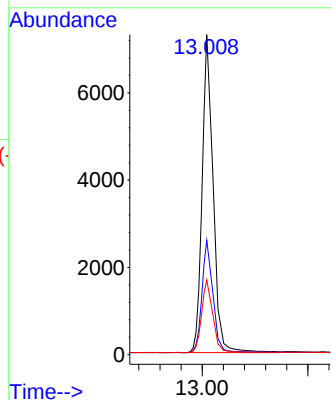
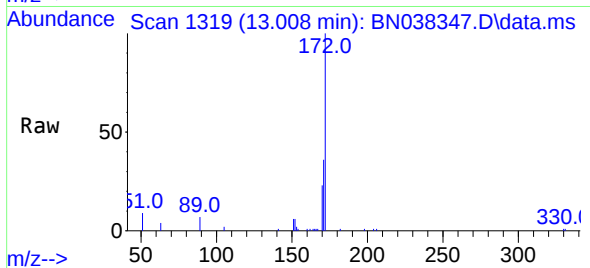




#15
2-Fluorobiphenyl
Concen: 0.291 ng
RT: 13.008 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

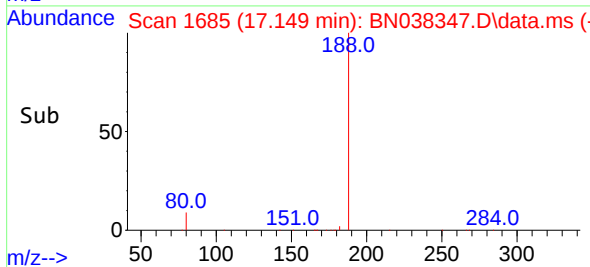
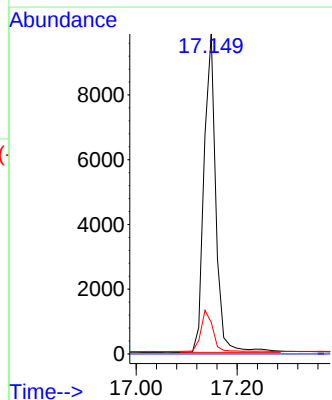
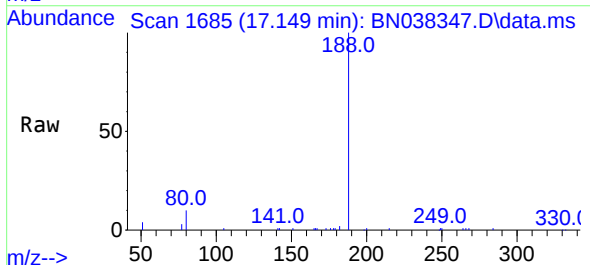
Instrument :
BNA_N
ClientSampleId :
EB01-120825

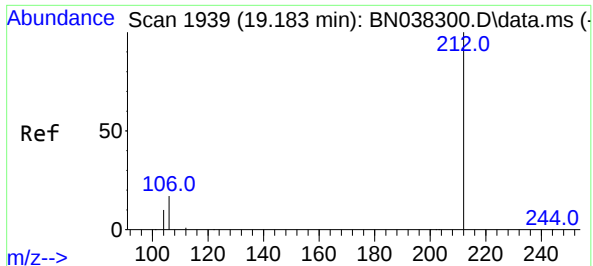
Tgt Ion:	172	Resp:	11880
Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.4	19.3	28.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

Tgt Ion:	188	Resp:	16049
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.8	7.4	11.0



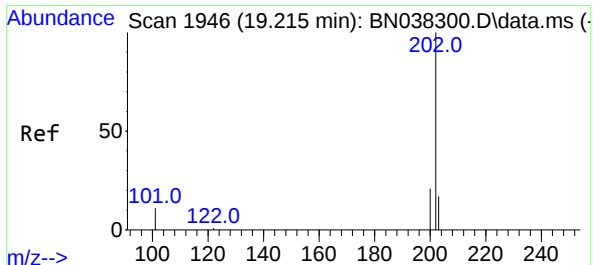
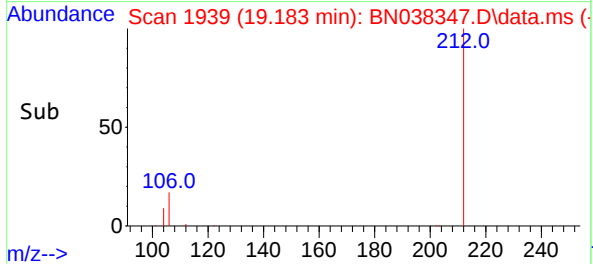
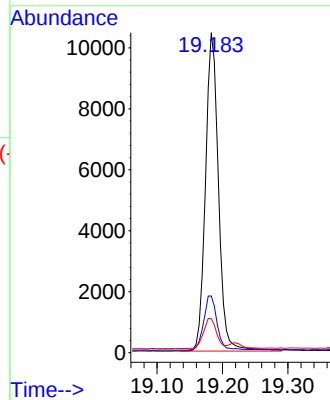
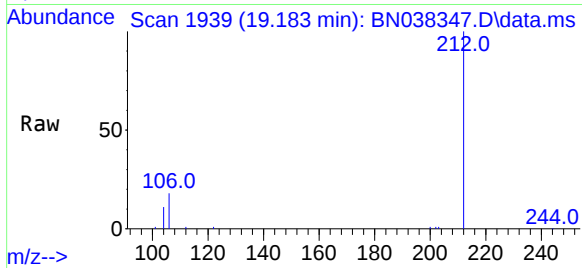


#27
Fluoranthene-d10
Concen: 0.362 ng
RT: 19.183 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

Instrument :
BNA_N
ClientSampleId :
EB01-120825

Tgt Ion:212 Resp: 14370

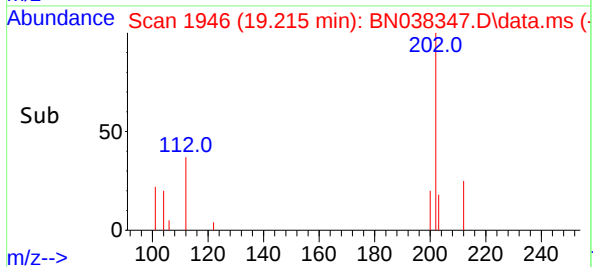
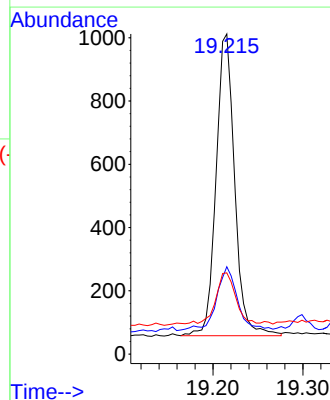
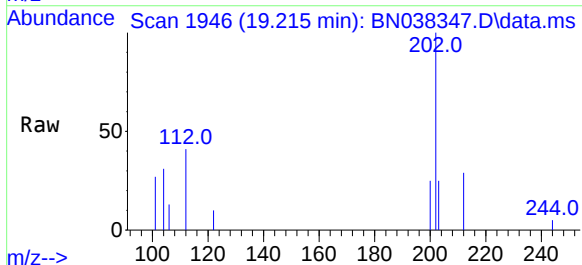
Ion	Ratio	Lower	Upper
212	100		
106	17.7	13.7	20.5
104	9.6	7.8	11.8

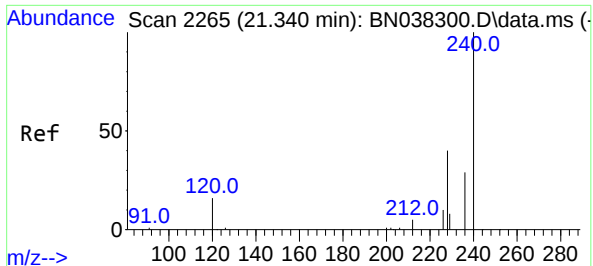


#28
Fluoranthene
Concen: 0.023 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038347.D
Acq: 12 Dec 2025 11:49

Tgt Ion:202 Resp: 1366

Ion	Ratio	Lower	Upper
202	100		
101	26.2	9.6	14.4#
203	19.9	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.340 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Instrument :

BNA_N

ClientSampleId :

EB01-120825

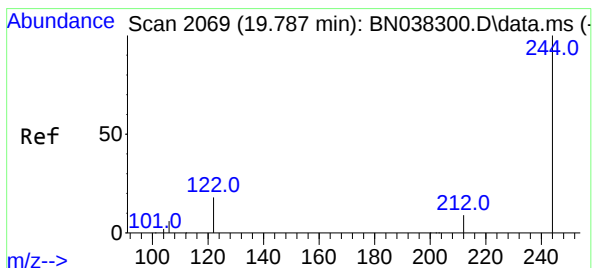
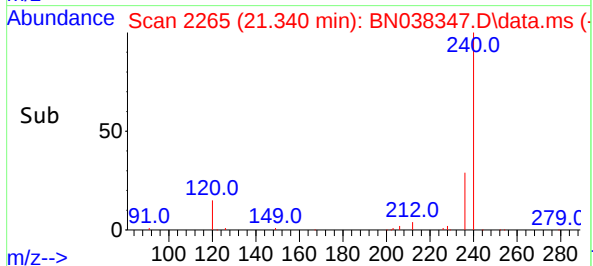
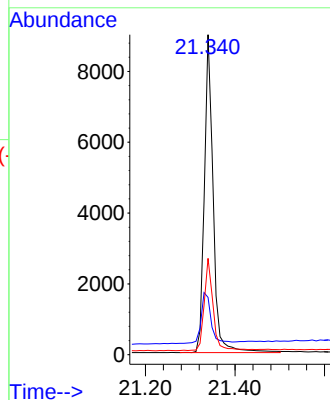
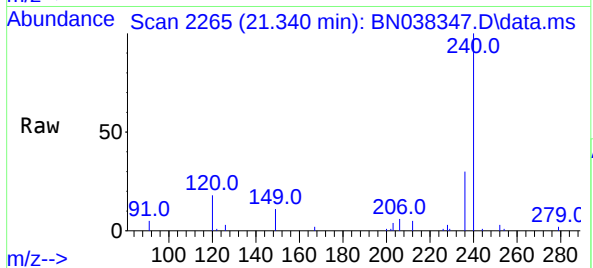
Tgt Ion:240 Resp: 12341

Ion Ratio Lower Upper

240 100

120 17.9 15.4 23.2

236 30.1 23.9 35.9



#31

Terphenyl-d14

Concen: 0.432 ng

RT: 19.787 min Scan# 2069

Delta R.T. -0.005 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

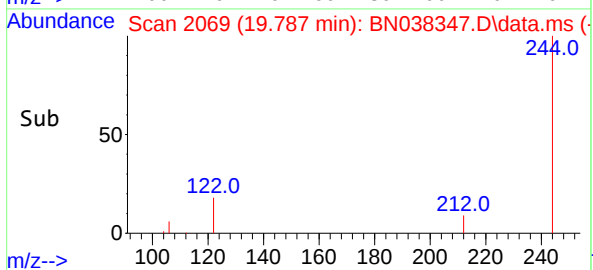
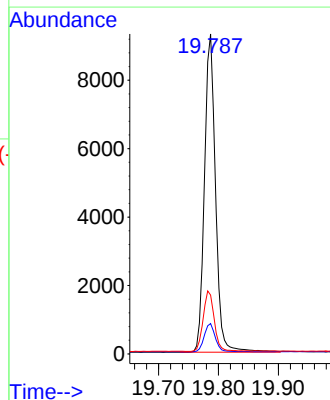
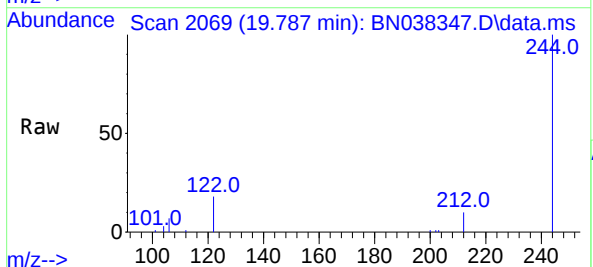
Tgt Ion:244 Resp: 11910

Ion Ratio Lower Upper

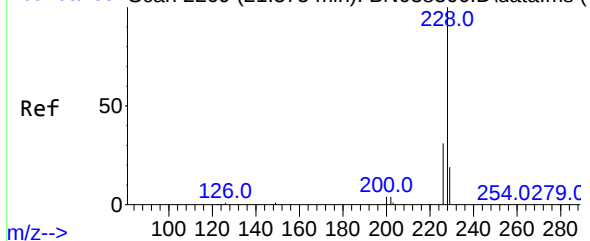
244 100

212 9.5 7.9 11.9

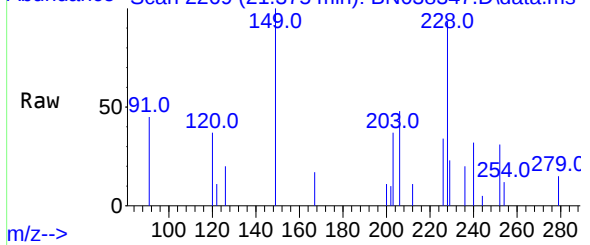
122 18.4 15.0 22.6



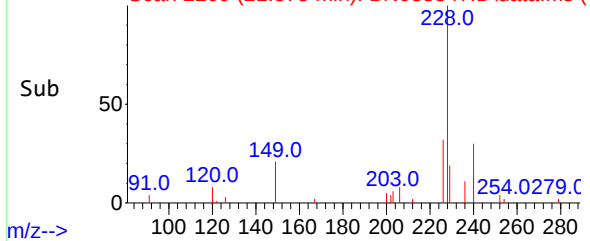
Abundance Scan 2269 (21.375 min): BN038300.D\data.ms (-



m/z--> Scan 2269 (21.375 min): BN038347.D\data.ms (-



Abundance Scan 2269 (21.375 min): BN038347.D\data.ms (-



m/z--> Scan 2269 (21.375 min): BN038347.D\data.ms (-

#33

Chrysene

Concen: 0.023 ng

RT: 21.375 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Instrument :

BNA_N

ClientSampleId :

EB01-120825

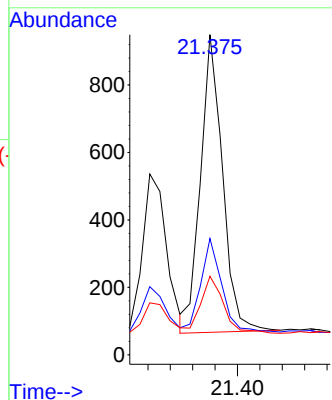
Tgt Ion:228 Resp: 1204

Ion Ratio Lower Upper

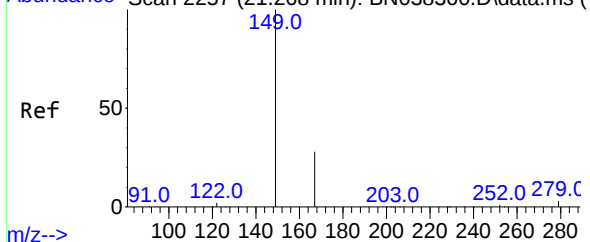
228 100

226 36.4 25.0 37.4

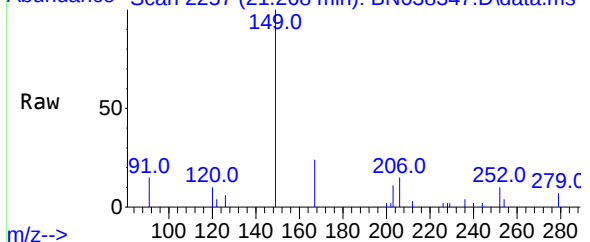
229 24.6 15.5 23.3#



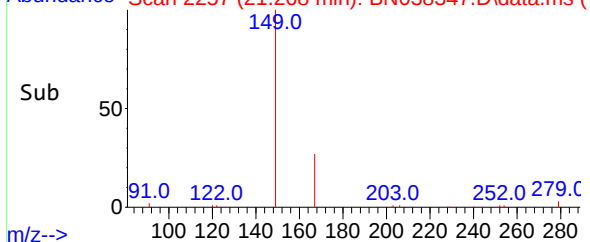
Abundance Scan 2257 (21.268 min): BN038300.D\data.ms (-



m/z--> Scan 2257 (21.268 min): BN038347.D\data.ms (-



Abundance Scan 2257 (21.268 min): BN038347.D\data.ms (-



m/z--> Scan 2257 (21.268 min): BN038347.D\data.ms (-

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.116 ng

RT: 21.268 min Scan# 2257

Delta R.T. 0.000 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

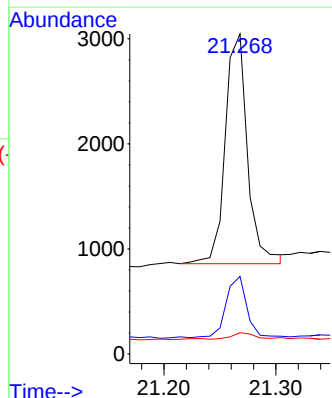
Tgt Ion:149 Resp: 3031

Ion Ratio Lower Upper

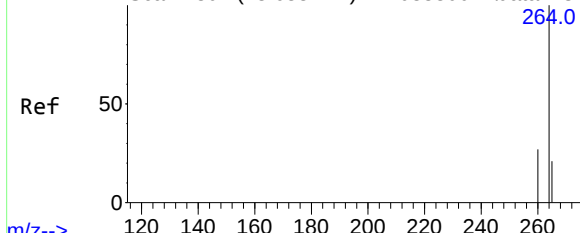
149 100

167 25.0 21.4 32.0

279 3.0 2.4 3.6

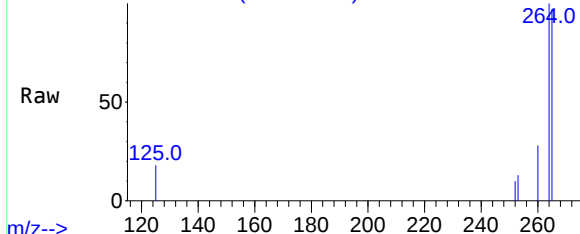


Abundance Scan 2804 (23.633 min): BN038300.D\data.ms (-



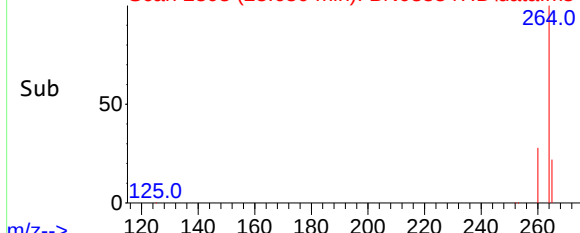
m/z-->

Abundance Scan 2803 (23.630 min): BN038347.D\data.ms (-



m/z-->

Abundance Scan 2803 (23.630 min): BN038347.D\data.ms (-



m/z-->

#35

Perylene-d12

Concen: 0.400 ng

RT: 23.630 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN038347.D

Acq: 12 Dec 2025 11:49

Instrument :

BNA_N

ClientSampleId :

EB01-120825

Tgt Ion:264 Resp: 12255

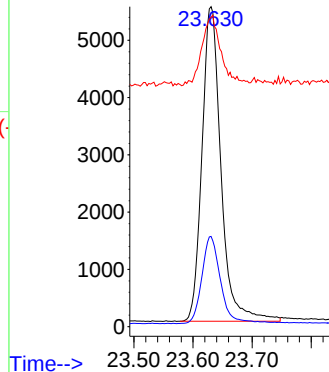
Ion Ratio Lower Upper

264 100

260 28.2 22.2 33.2

265 96.7 80.2 120.2

Abundance



Time-->

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038344.D
 Acq On : 12 Dec 2025 10:00
 Operator : RC/JU
 Sample : PB170912BL
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170912BL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Dec 12 10:25:30 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	7.717	152	6576	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	16790	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	8053	0.400	ng	-0.01
19) Phenanthrene-d10	17.149	188	12820	0.400	ng	0.00
29) Chrysene-d12	21.340	240	8612	0.400	ng	0.00
35) Perylene-d12	23.630	264	9324	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	6016	0.367	ng	0.00
5) Phenol-d6	6.887	99	6712	0.345	ng	0.00
8) Nitrobenzene-d5	8.875	82	5576	0.394	ng	0.00
11) 2-Methylnaphthalene-d10	12.126	152	8585	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	451	0.126	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	14887	0.384	ng	0.00
27) Fluoranthene-d10	19.183	212	10905	0.344	ng	0.00
31) Terphenyl-d14	19.787	244	8247	0.429	ng	0.00

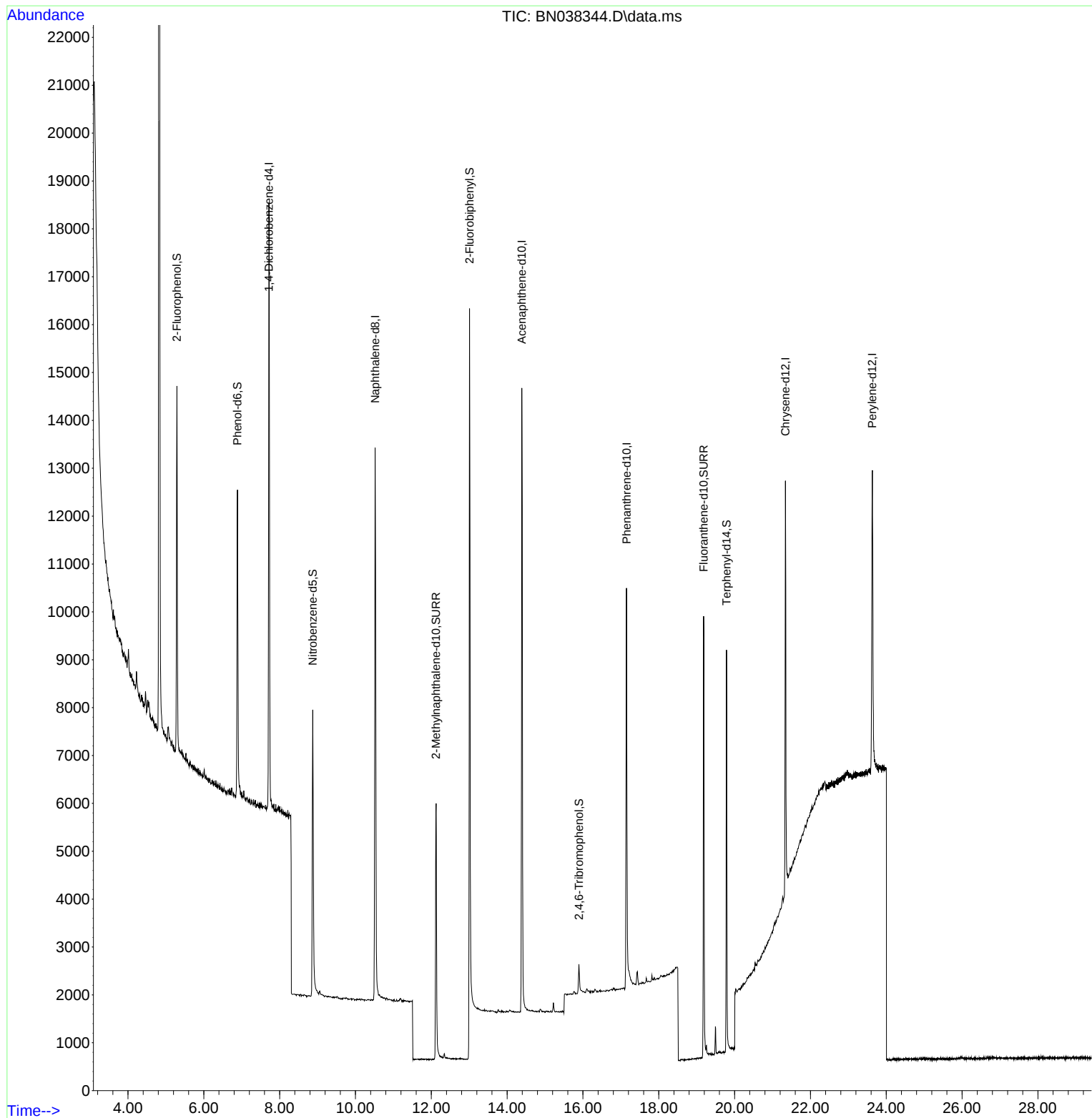
Target Compounds	Qvalue

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

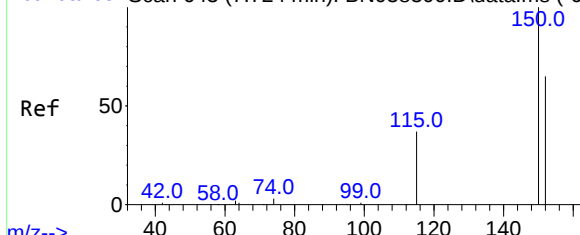
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038344.D
Acq On : 12 Dec 2025 10:00
Operator : RC/JU
Sample : PB170912BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170912BL

Quant Time: Dec 12 10:25:30 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



Abundance Scan 643 (7.724 min): BN038300.D\data.ms (-63



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.717 min Scan# 64

Delta R.T. -0.007 min

Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

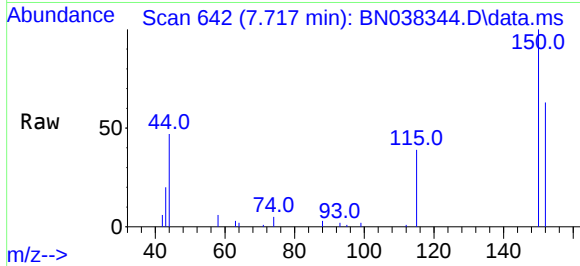
Instrument :

BNA_N

ClientSampleId :

PB170912BL

m/z--> Abundance Scan 642 (7.717 min): BN038344.D\data.ms



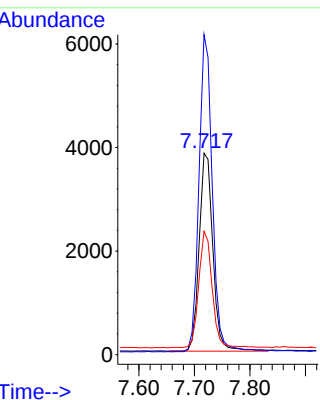
Tgt Ion:152 Resp: 6576

Ion Ratio Lower Upper

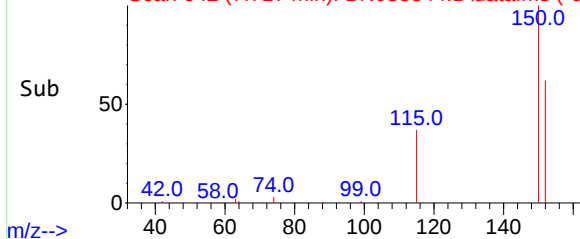
152 100

150 158.9 122.4 183.6

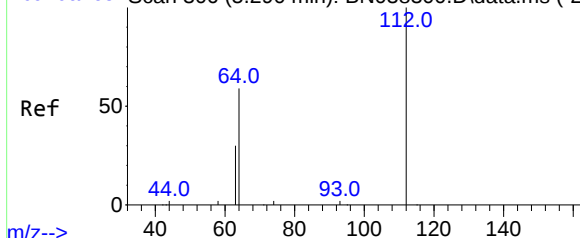
115 61.3 47.3 70.9



Abundance Scan 642 (7.717 min): BN038344.D\data.ms (-61



Abundance Scan 306 (5.290 min): BN038300.D\data.ms (-29



#4

2-Fluorophenol

Concen: 0.367 ng

RT: 5.291 min Scan# 306

Delta R.T. 0.000 min

Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

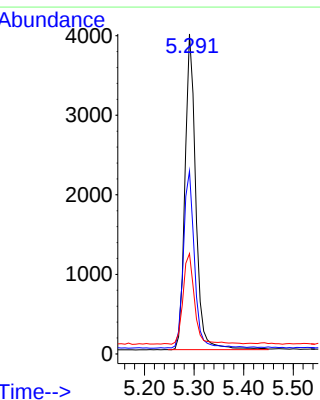
Tgt Ion:112 Resp: 6016

Ion Ratio Lower Upper

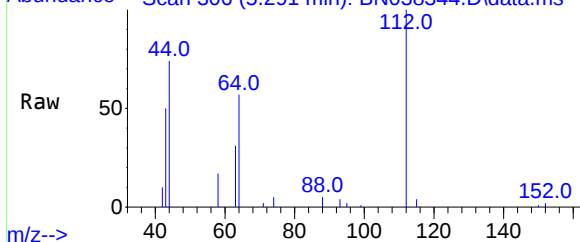
112 100

64 57.5 44.4 66.6

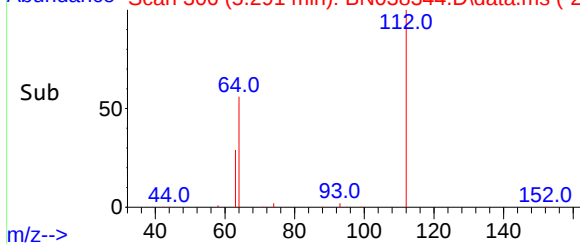
63 30.2 23.4 35.0



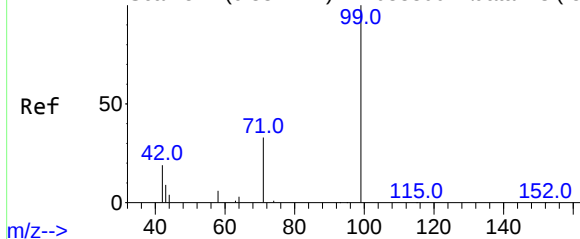
m/z--> Abundance Scan 306 (5.291 min): BN038344.D\data.ms



Abundance Scan 306 (5.291 min): BN038344.D\data.ms (-27



Abundance Scan 527 (6.887 min): BN038300.D\data.ms (-52



#5

Phenol-d6

Concen: 0.345 ng

RT: 6.887 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

Instrument :

BNA_N

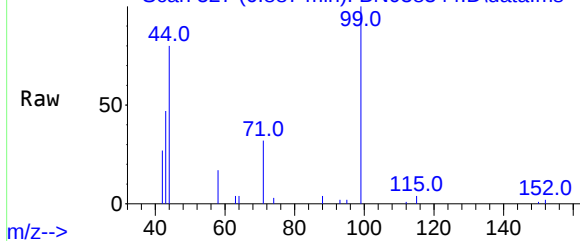
ClientSampleId :

PB170912BL

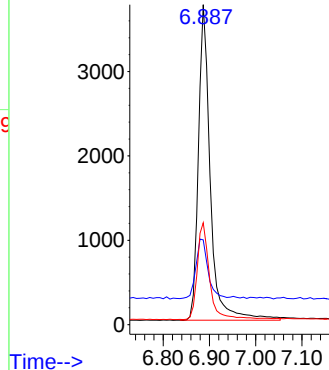
Tgt Ion: 99 Resp: 6712

Ion	Ratio	Lower	Upper
99	100		
42	19.3	16.5	24.7
71	31.3	24.9	37.3

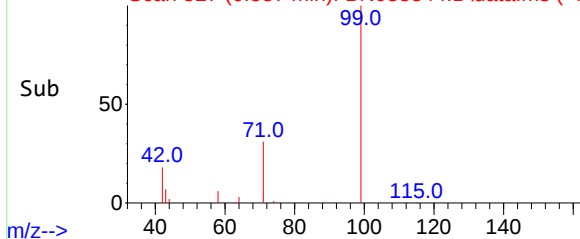
Abundance Scan 527 (6.887 min): BN038344.D\data.ms



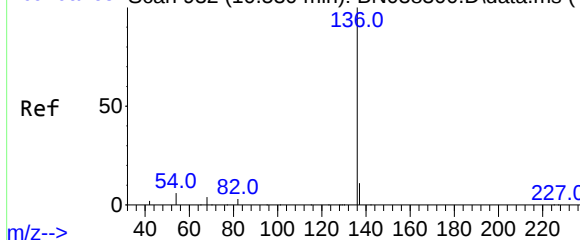
Abundance



Abundance Scan 527 (6.887 min): BN038344.D\data.ms (-49



Abundance Scan 932 (10.530 min): BN038300.D\data.ms (-9



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.520 min Scan# 931

Delta R.T. -0.011 min

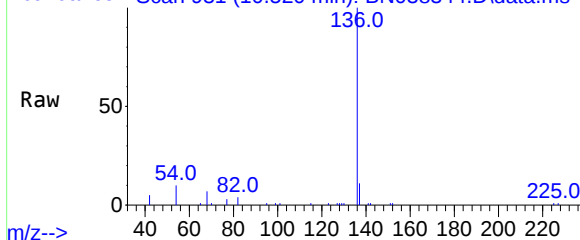
Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

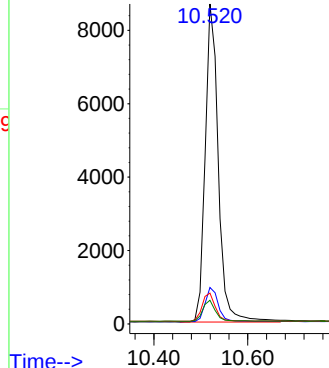
Tgt Ion: 136 Resp: 16790

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	9.7	5.2	7.8#
68	7.4	4.1	6.1#

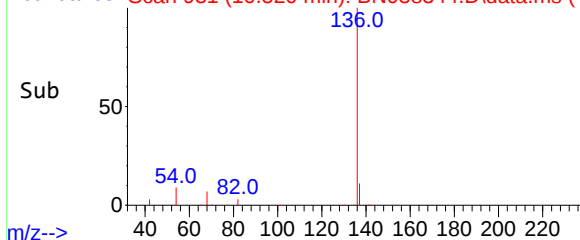
Abundance Scan 931 (10.520 min): BN038344.D\data.ms



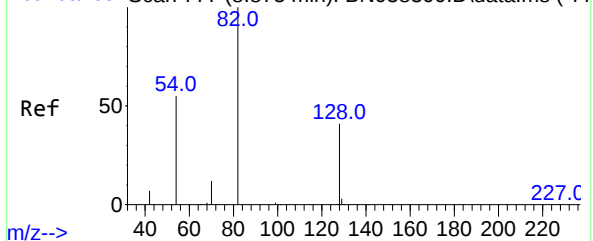
Abundance



Abundance Scan 931 (10.520 min): BN038344.D\data.ms (-9



Abundance Scan 777 (8.875 min): BN038300.D\data.ms (-77



#8

Nitrobenzene-d5

Concen: 0.394 ng

RT: 8.875 min Scan# 777

Delta R.T. 0.000 min

Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

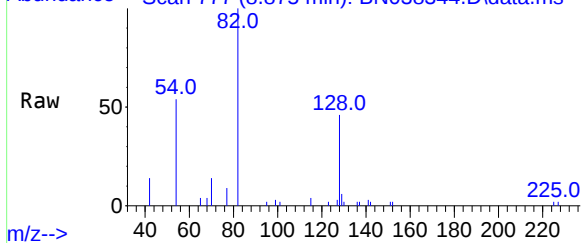
Instrument :

BNA_N

ClientSampleId :

PB170912BL

Abundance Scan 777 (8.875 min): BN038344.D\data.ms



Tgt Ion: 82 Resp: 5576

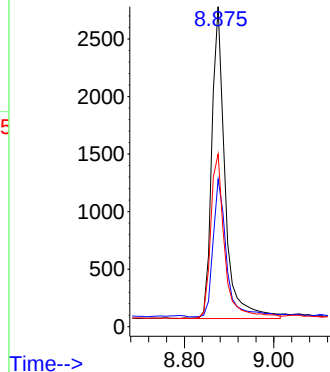
Ion Ratio Lower Upper

82 100

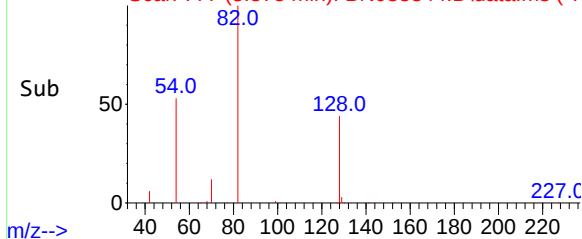
128 46.1 34.0 51.0

54 53.9 44.4 66.6

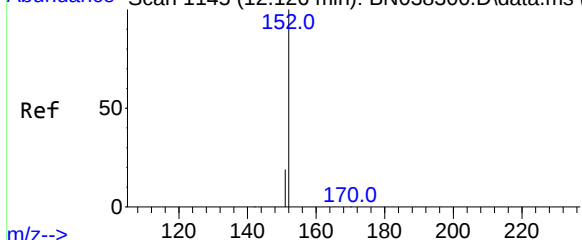
Abundance



Abundance Scan 777 (8.875 min): BN038344.D\data.ms (-75



Abundance Scan 1145 (12.126 min): BN038300.D\data.ms (-



#11

2-Methylnaphthalene-d10

Concen: 0.362 ng

RT: 12.126 min Scan# 1145

Delta R.T. 0.000 min

Lab File: BN038344.D

Acq: 12 Dec 2025 10:00

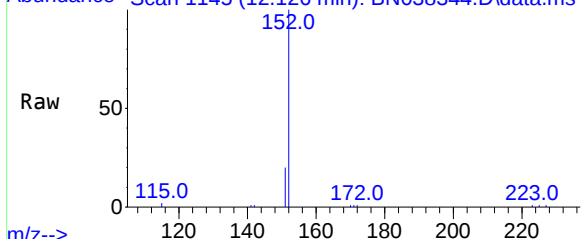
Tgt Ion: 152 Resp: 8585

Ion Ratio Lower Upper

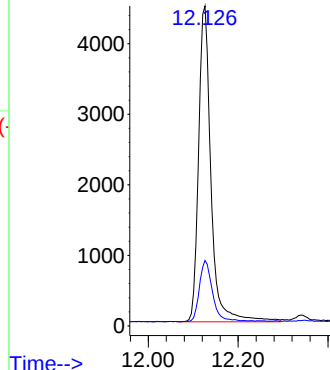
152 100

151 20.7 17.0 25.6

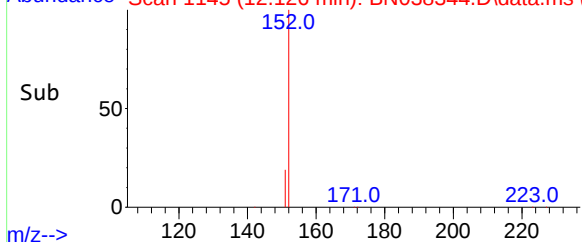
Abundance Scan 1145 (12.126 min): BN038344.D\data.ms

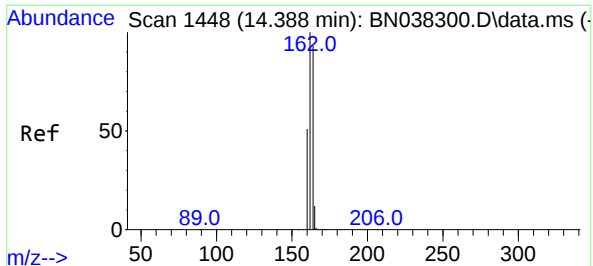


Abundance



Abundance Scan 1145 (12.126 min): BN038344.D\data.ms (-

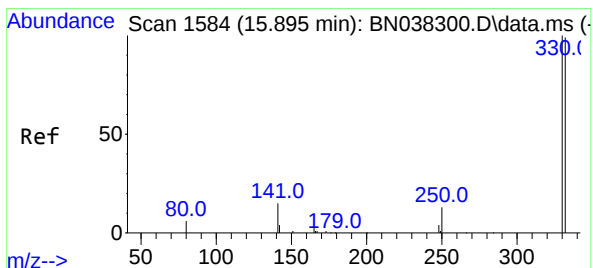
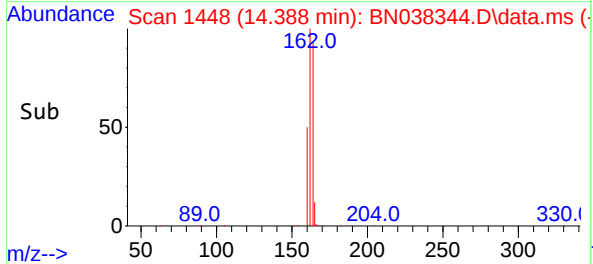
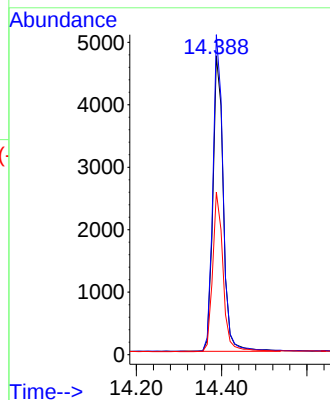
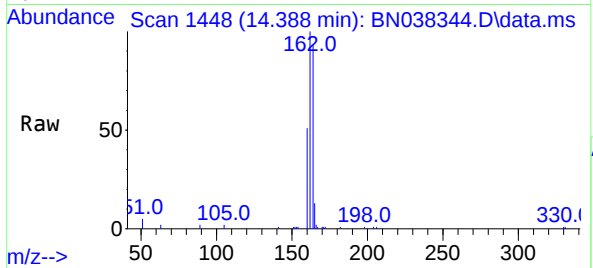




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

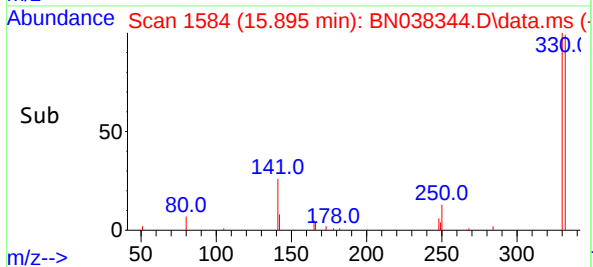
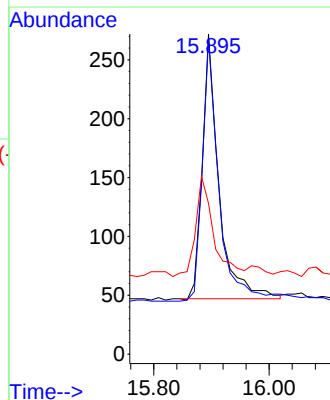
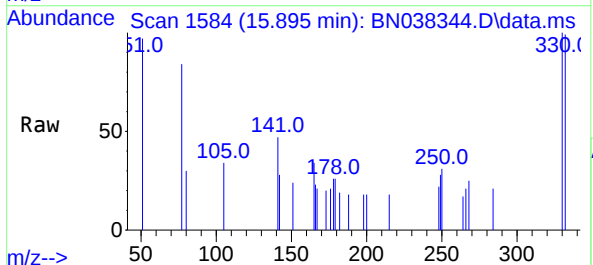
Instrument :
BNA_N
ClientSampleId :
PB170912BL

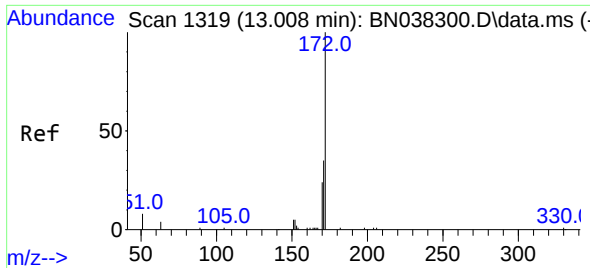
Tgt Ion:164 Resp: 8053
Ion Ratio Lower Upper
164 100
162 107.1 86.2 129.4
160 54.4 44.6 67.0



#14
2,4,6-Tribromophenol
Concen: 0.126 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

Tgt Ion:330 Resp: 451
Ion Ratio Lower Upper
330 100
332 99.8 75.8 113.6
141 40.4 31.8 47.8

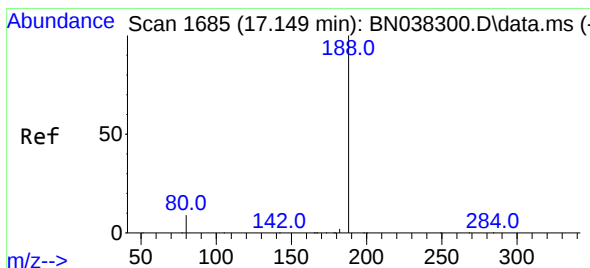
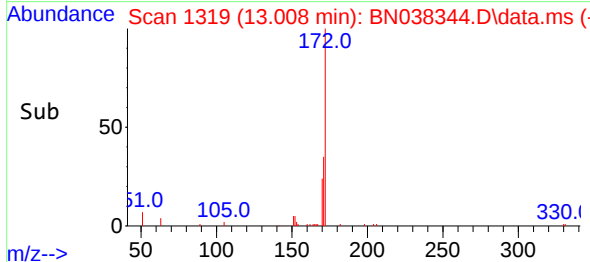
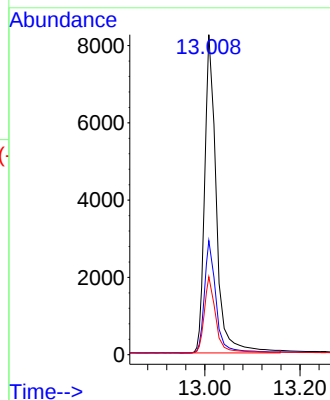
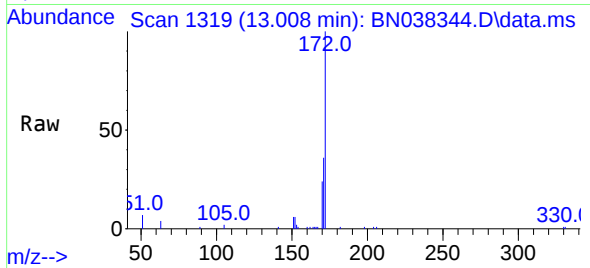




#15
2-Fluorobiphenyl
Concen: 0.384 ng
RT: 13.008 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

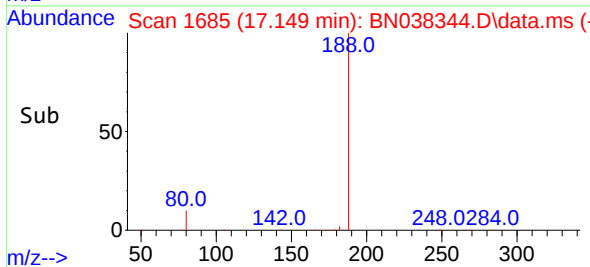
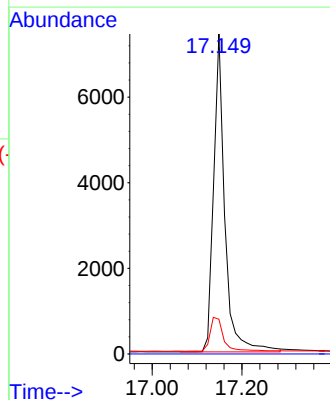
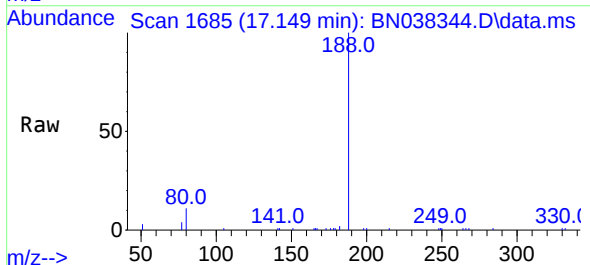
Instrument :
BNA_N
ClientSampleId :
PB170912BL

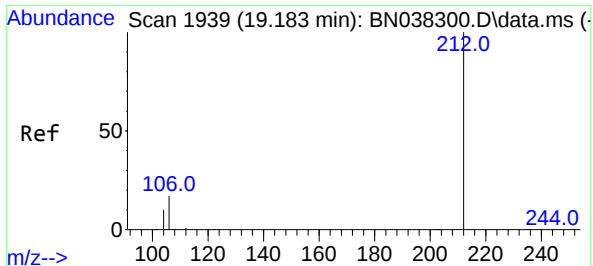
Tgt Ion:	172	Resp:	14887
Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	24.4	19.3	28.9



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1685
Delta R.T. 0.000 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

Tgt Ion:	188	Resp:	12820
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	7.4	11.0

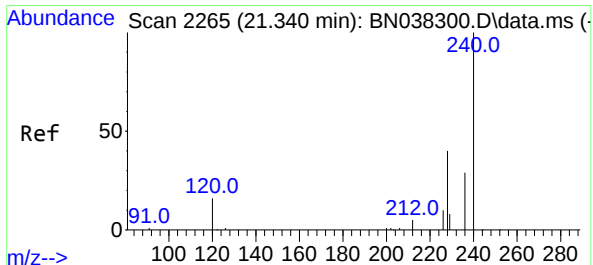
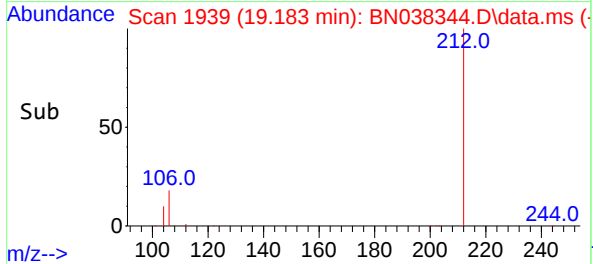
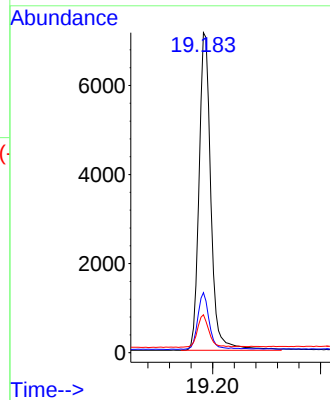
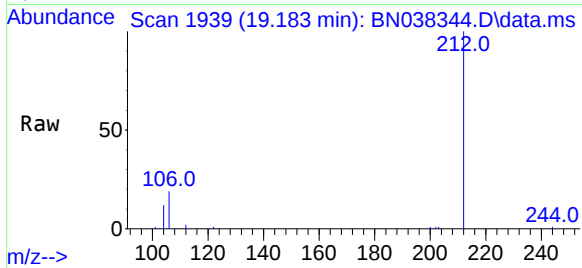




#27
Fluoranthene-d10
Concen: 0.344 ng
RT: 19.183 min Scan# 1939
Delta R.T. -0.005 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

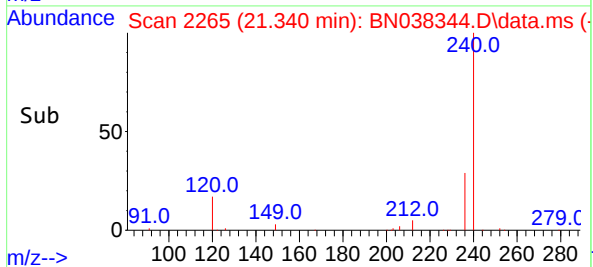
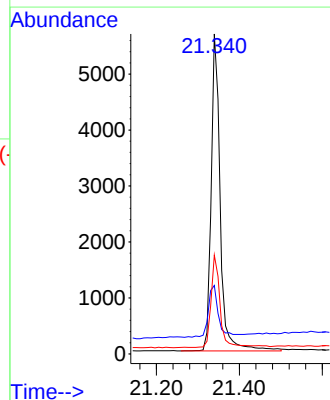
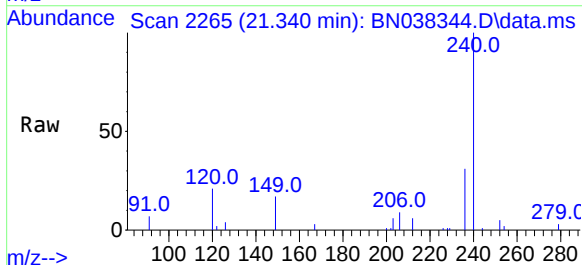
Instrument :
BNA_N
ClientSampleId :
PB170912BL

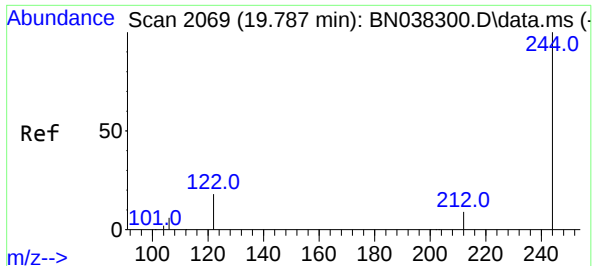
Tgt Ion:	212	Resp:	10905
Ion Ratio	Lower	Upper	
212	100		
106	17.3	13.7	20.5
104	10.0	7.8	11.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

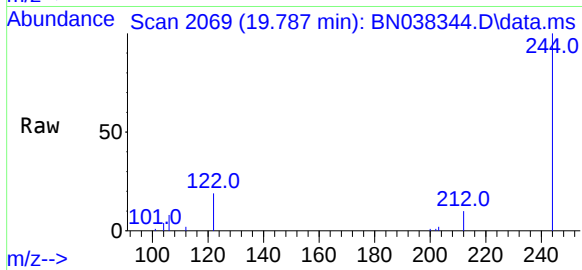
Tgt Ion:	240	Resp:	8612
Ion Ratio	Lower	Upper	
240	100		
120	21.4	15.4	23.2
236	30.9	23.9	35.9



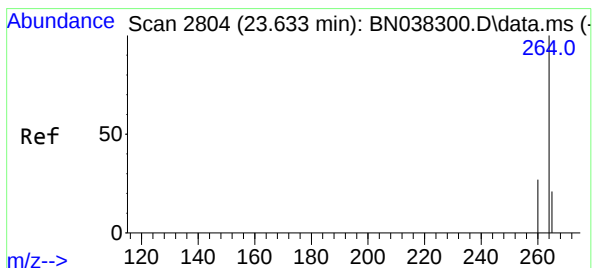
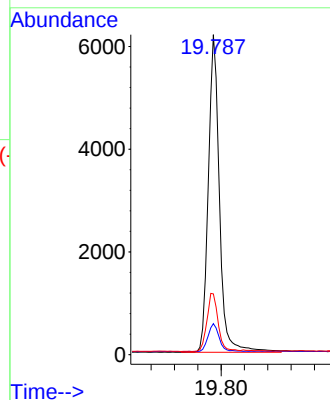


#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.787 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

Instrument :
BNA_N
ClientSampleId :
PB170912BL

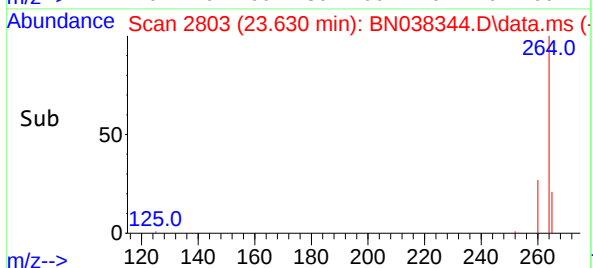
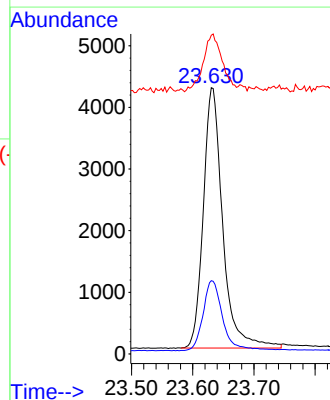
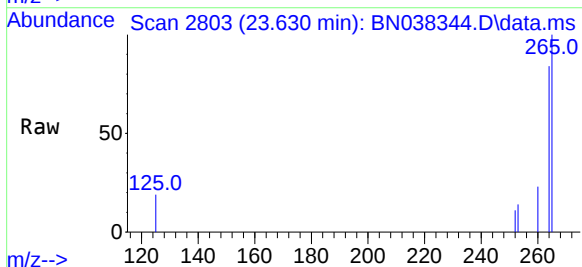


Tgt Ion:244 Resp: 8247
Ion Ratio Lower Upper
244 100
212 9.7 7.9 11.9
122 19.0 15.0 22.6



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.630 min Scan# 2803
Delta R.T. -0.003 min
Lab File: BN038344.D
Acq: 12 Dec 2025 10:00

Tgt Ion:264 Resp: 9324
Ion Ratio Lower Upper
264 100
260 27.5 22.2 33.2
265 119.7 80.2 120.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038357.D
 Acq On : 12 Dec 2025 18:27
 Operator : RC/JU
 Sample : PB170912BS
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170912BS

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 12/15/2025
 Supervised By :Jagrut Upadhyay 12/15/2025

Quant Time: Dec 13 02:09:13 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	7.717	152	6159	0.400	ng	0.00
7) Naphthalene-d8	10.520	136	16009	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	7792	0.400	ng	-0.01
19) Phenanthrene-d10	17.149	188	13155	0.400	ng	0.00
29) Chrysene-d12	21.340	240	8480	0.400	ng	0.00
35) Perylene-d12	23.625	264	8947	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.291	112	5525	0.360	ng	0.00
5) Phenol-d6	6.887	99	6254	0.343	ng	0.00
8) Nitrobenzene-d5	8.875	82	5244	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	8204m	0.363	ng	0.00
14) 2,4,6-Tribromophenol	15.883	330	944	0.273	ng	-0.01
15) 2-Fluorobiphenyl	13.009	172	16230	0.432	ng	0.00
27) Fluoranthene-d10	19.183	212	10641	0.327	ng	0.00
31) Terphenyl-d14	19.782	244	8141	0.430	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.196	88	2073	0.294	ng	# 57
3) n-Nitrosodimethylamine	3.507	42	2894	0.327	ng	# 95
6) bis(2-Chloroethyl)ether	7.139	93	5934	0.333	ng	98
9) Naphthalene	10.573	128	16000	0.338	ng	99
10) Hexachlorobutadiene	10.872	225	2793	0.332	ng	# 98
12) 2-Methylnaphthalene	12.197	142	9171	0.305	ng	99
16) Acenaphthylene	14.110	152	14230	0.372	ng	100
17) Acenaphthene	14.452	154	8645	0.324	ng	99
18) Fluorene	15.446	166	11335	0.330	ng	98
20) 4,6-Dinitro-2-methylph...	15.523	198	217	0.100	ng	# 13
21) 4-Bromophenyl-phenylether	16.342	248	3145	0.322	ng	93
22) Hexachlorobenzene	16.453	284	4007	0.342	ng	99
23) Atrazine	16.615	200	2150	0.323	ng	99
24) Pentachlorophenol	16.801	266	1260	0.275	ng	98
25) Phenanthrene	17.186	178	15862	0.346	ng	100
26) Anthracene	17.273	178	13583	0.344	ng	100
28) Fluoranthene	19.211	202	15139	0.311	ng	99
30) Pyrene	19.573	202	15342	0.367	ng	100
32) Benzo(a)anthracene	21.322	228	11503	0.351	ng	98
33) Chrysene	21.375	228	12406	0.344	ng	99
34) Bis(2-ethylhexyl)phtha...	21.259	149	5420	0.302	ng	100
36) Indeno(1,2,3-cd)pyrene	25.946	276	17589	0.370	ng	100
37) Benzo(b)fluoranthene	22.932	252	13100	0.319	ng	96
38) Benzo(k)fluoranthene	22.978	252	13592	0.332	ng	94
39) Benzo(a)pyrene	23.522	252	11710	0.348	ng	96
40) Dibenzo(a,h)anthracene	25.964	278	13361	0.365	ng	98
41) Benzo(g,h,i)perylene	26.651	276	15315	0.374	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038357.D
Acq On : 12 Dec 2025 18:27
Operator : RC/JU
Sample : PB170912BS
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

PB170912BS

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 12/15/2025

Supervised By :Jagrut Upadhyay 12/15/2025

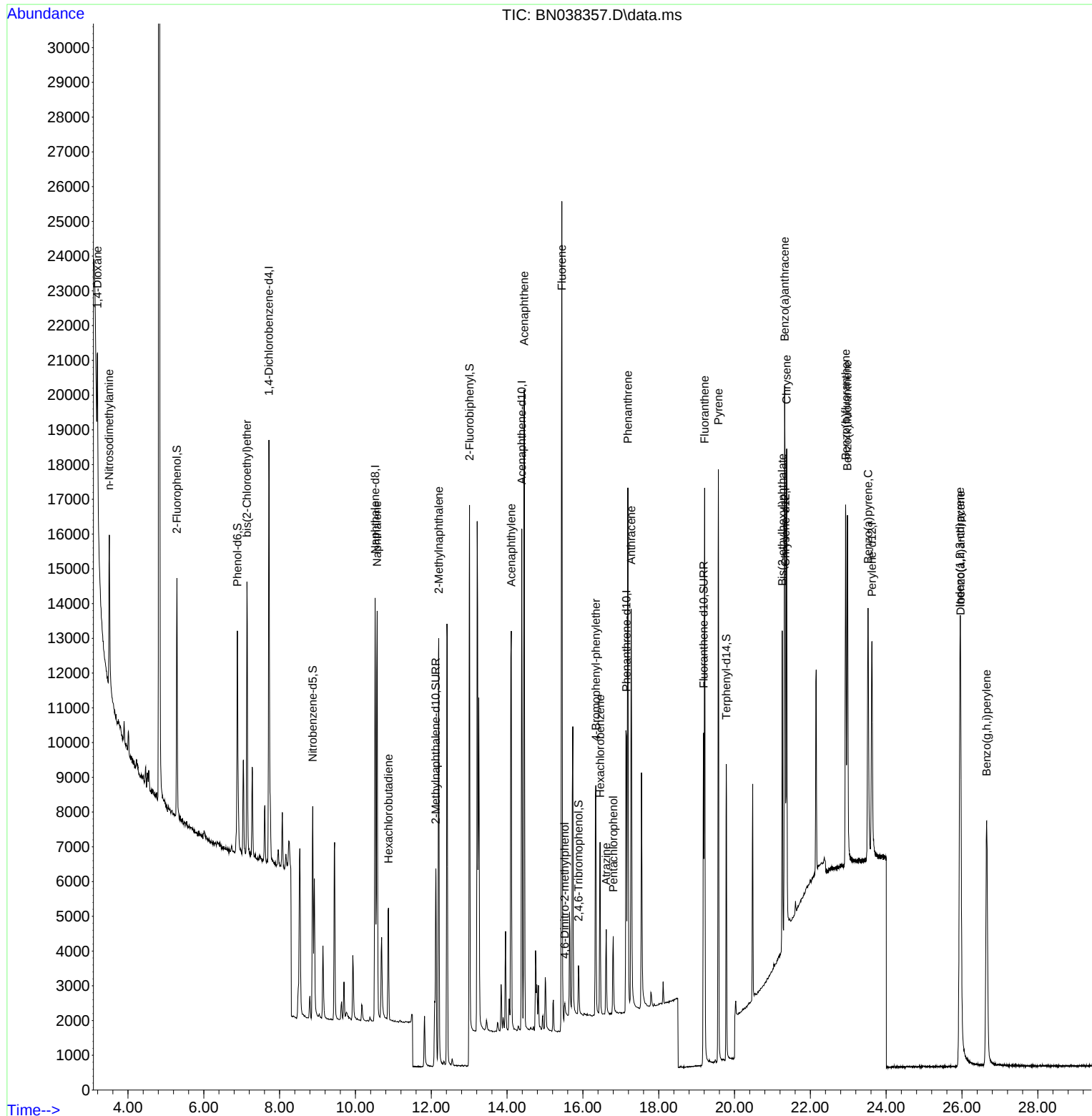
Quant Time: Dec 13 02:09:13 2025

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
 Data File : BN038358.D
 Acq On : 12 Dec 2025 19:03
 Operator : RC/JU
 Sample : PB170912BSD
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB170912BSD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 12/15/2025
 Supervised By :Jagrut Upadhyay 12/15/2025

Quant Time: Dec 13 02:09:38 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	7.717	152	5504	0.400	ng	0.00
7) Naphthalene-d8	10.519	136	14243	0.400	ng	#-0.01
13) Acenaphthene-d10	14.388	164	6818	0.400	ng	-0.01
19) Phenanthrene-d10	17.149	188	11665	0.400	ng	0.00
29) Chrysene-d12	21.340	240	8305	0.400	ng	# 0.00
35) Perylene-d12	23.622	264	8801	0.400	ng	#-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.290	112	4917	0.359	ng	0.00
5) Phenol-d6	6.887	99	5454	0.335	ng	0.00
8) Nitrobenzene-d5	8.875	82	4653	0.387	ng	0.00
11) 2-Methylnaphthalene-d10	12.121	152	7618m	0.379	ng	0.00
14) 2,4,6-Tribromophenol	15.895	330	836	0.276	ng	0.00
15) 2-Fluorobiphenyl	13.008	172	13910	0.423	ng	0.00
27) Fluoranthene-d10	19.183	212	9671	0.335	ng	0.00
31) Terphenyl-d14	19.782	244	7442	0.402	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.196	88	1838	0.291	ng	# 65
3) n-Nitrosodimethylamine	3.507	42	2757	0.348	ng	# 97
6) bis(2-Chloroethyl)ether	7.139	93	5483	0.344	ng	96
9) Naphthalene	10.573	128	14349	0.341	ng	100
10) Hexachlorobutadiene	10.872	225	2638	0.352	ng	# 99
12) 2-Methylnaphthalene	12.197	142	8109	0.303	ng	99
16) Acenaphthylene	14.110	152	12558	0.375	ng	99
17) Acenaphthene	14.452	154	7570	0.325	ng	98
18) Fluorene	15.446	166	9826	0.327	ng	100
20) 4,6-Dinitro-2-methylph...	15.522	198	208	0.108	ng	# 1
21) 4-Bromophenyl-phenylether	16.342	248	2851	0.329	ng	97
22) Hexachlorobenzene	16.453	284	3612	0.347	ng	100
23) Atrazine	16.615	200	1948	0.330	ng	99
24) Pentachlorophenol	16.801	266	1446	0.356	ng	97
25) Phenanthrene	17.186	178	13452	0.331	ng	100
26) Anthracene	17.273	178	12005	0.343	ng	100
28) Fluoranthene	19.211	202	13300	0.308	ng	100
30) Pyrene	19.573	202	13499	0.330	ng	99
32) Benzo(a)anthracene	21.322	228	11195	0.349	ng	99
33) Chrysene	21.375	228	12514	0.354	ng	99
34) Bis(2-ethylhexyl)phtha...	21.259	149	5141	0.292	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.949	276	17687	0.379	ng	100
37) Benzo(b)fluoranthene	22.935	252	13459	0.333	ng	95
38) Benzo(k)fluoranthene	22.978	252	14124	0.350	ng	97
39) Benzo(a)pyrene	23.522	252	12179	0.368	ng	98
40) Dibenzo(a,h)anthracene	25.961	278	13531	0.376	ng	97
41) Benzo(g,h,i)perylene	26.653	276	15173	0.377	ng	99

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

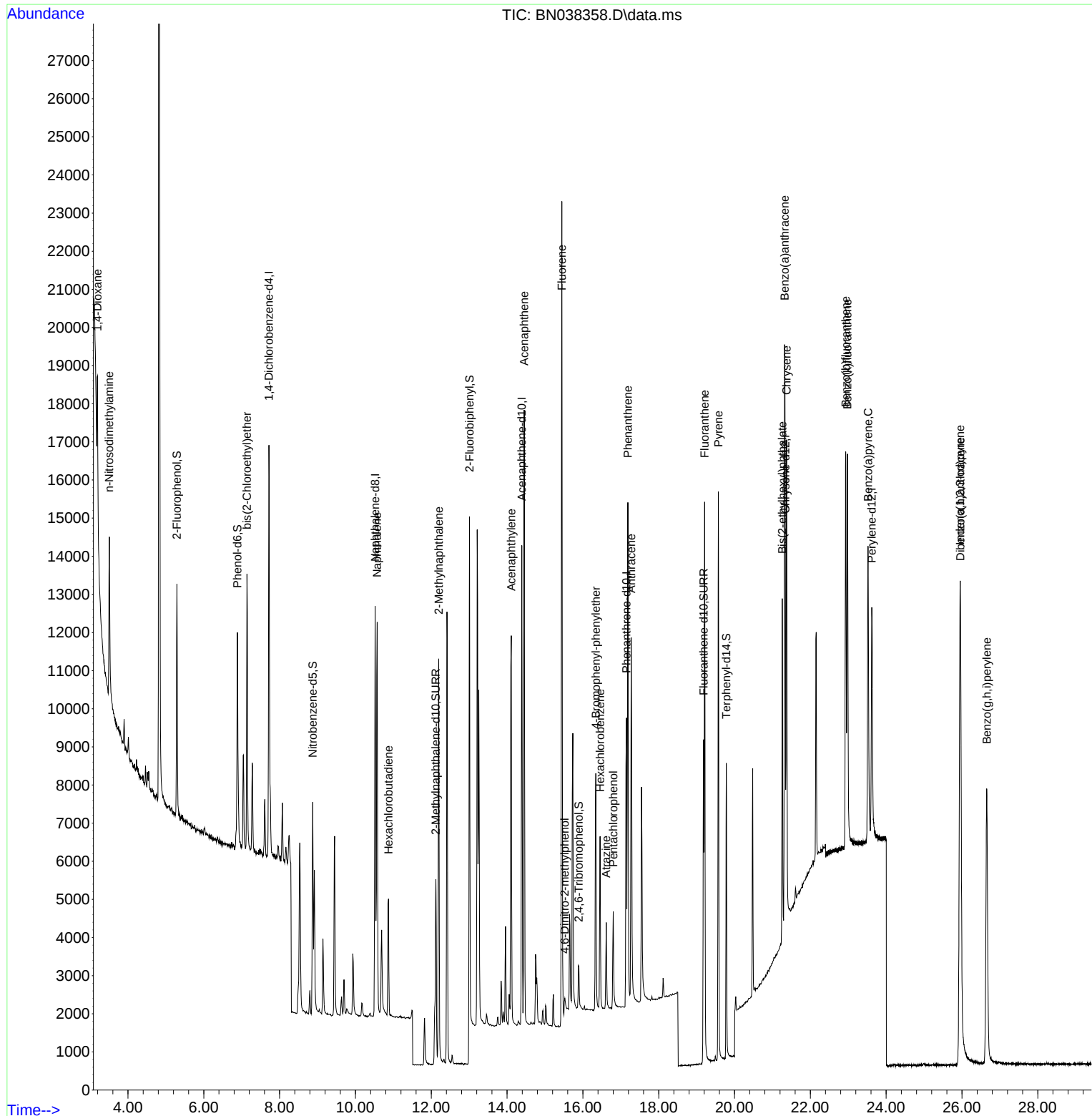
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121225\
Data File : BN038358.D
Acq On : 12 Dec 2025 19:03
Operator : RC/JU
Sample : PB170912BSD
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170912BSD

Quant Time: Dec 13 02:09:38 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

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 12/15/2025
Supervised By :Jagrut Upadhyay 12/15/2025





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

Manual Integration Report

Sequence:

BN121225

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170912BS	BN038357.D	2-Methylnaphthalene-d1 0	rahul	12/15/2025 9:48:01 AM	Jagrut	12/15/2025 2:16:06 PM	Peak Integrated by Software
PB170912BSD	BN038358.D	2-Methylnaphthalene-d1 0	rahul	12/15/2025 9:48:05 AM	Jagrut	12/15/2025 2:16:08 PM	Peak Integrated by Software

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 # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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	BN038342.D	12 Dec 2025 08:45	RC/JU	Ok
2	SSTDCCC0.4	BN038343.D	12 Dec 2025 09:24	RC/JU	Ok
3	PB170912BL	BN038344.D	12 Dec 2025 10:00	RC/JU	Ok
4	Q3788-01DL	BN038345.D	12 Dec 2025 10:36	RC/JU	Ok
5	Q3813-01	BN038346.D	12 Dec 2025 11:12	RC/JU	Ok
6	Q3813-03	BN038347.D	12 Dec 2025 11:49	RC/JU	Ok
7	Q3828-01	BN038348.D	12 Dec 2025 12:25	RC/JU	Ok
8	Q3828-03	BN038349.D	12 Dec 2025 13:01	RC/JU	Ok,M
9	Q3828-05	BN038350.D	12 Dec 2025 13:38	RC/JU	Dilution
10	Q3828-06	BN038351.D	12 Dec 2025 14:14	RC/JU	Ok
11	Q3828-08	BN038352.D	12 Dec 2025 15:26	RC/JU	Ok
12	Q3835-01	BN038353.D	12 Dec 2025 16:02	RC/JU	Ok
13	Q3835-02	BN038354.D	12 Dec 2025 16:38	RC/JU	Ok
14	Q3835-04	BN038355.D	12 Dec 2025 17:14	RC/JU	Dilution
15	Q3835-05	BN038356.D	12 Dec 2025 17:50	RC/JU	Ok
16	PB170912BS	BN038357.D	12 Dec 2025 18:27	RC/JU	Ok,M
17	PB170912BSD	BN038358.D	12 Dec 2025 19:03	RC/JU	Ok,M
18	SSTDCCC0.4	BN038359.D	12 Dec 2025 20:16	RC/JU	Ok
19	DFTPP	BN038360.D	12 Dec 2025 21:31	RC/JU	Ok
20	SSTDCCC0.4	BN038361.D	12 Dec 2025 22:10	RC/JU	Ok
21	PB170917BL	BN038362.D	12 Dec 2025 22:47	RC/JU	ReRun

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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	Q3839-01	BN038363.D	12 Dec 2025 23:24	RC/JU	ReRun
23	Q3839-02	BN038364.D	13 Dec 2025 00:00	RC/JU	ReRun
24	Q3839-03MS	BN038365.D	13 Dec 2025 00:37	RC/JU	ReRun
25	Q3839-04MSD	BN038366.D	13 Dec 2025 01:13	RC/JU	ReRun
26	Q3839-05	BN038367.D	13 Dec 2025 01:50	RC/JU	ReRun
27	Q3839-06	BN038368.D	13 Dec 2025 02:27	RC/JU	ReRun
28	Q3839-07	BN038369.D	13 Dec 2025 03:03	RC/JU	ReRun
29	Q3839-08	BN038370.D	13 Dec 2025 03:40	RC/JU	ReRun
30	Q3839-11	BN038371.D	13 Dec 2025 04:16	RC/JU	ReRun
31	Q3839-12	BN038372.D	13 Dec 2025 04:53	RC/JU	ReRun
32	Q3839-13	BN038373.D	13 Dec 2025 05:29	RC/JU	ReRun
33	Q3839-14	BN038374.D	13 Dec 2025 06:06	RC/JU	ReRun
34	Q3839-15	BN038375.D	13 Dec 2025 06:42	RC/JU	ReRun
35	Q3839-16	BN038376.D	13 Dec 2025 07:18	RC/JU	ReRun
36	PB170917BS	BN038377.D	13 Dec 2025 07:55	RC/JU	Ok,M
37	SSTDCCC0.4	BN038378.D	13 Dec 2025 09:08	RC/JU	Ok
38	DFTPP	BN038379.D	13 Dec 2025 10:24	RC/JU	Ok
39	SSTDCCC0.4	BN038380.D	13 Dec 2025 11:03	RC/JU	Ok
40	PB170919BL	BN038381.D	13 Dec 2025 11:39	RC/JU	Not Ok
41	Q3828-05DL	BN038382.D	13 Dec 2025 12:16	RC/JU	Ok
42	Q3839-17	BN038383.D	13 Dec 2025 12:52	RC/JU	Ok
43	Q3839-18	BN038384.D	13 Dec 2025 13:28	RC/JU	Not Ok
44	Q3839-19MS	BN038385.D	13 Dec 2025 14:04	RC/JU	Not Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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			

45	Q3839-19MSD	BN038386.D	13 Dec 2025 14:40	RC/JU	Not Ok
46	Q3839-09	BN038387.D	13 Dec 2025 15:16	RC/JU	Ok,M
47	Q3839-10	BN038388.D	13 Dec 2025 15:52	RC/JU	Dilution
48	Q3839-21	BN038389.D	13 Dec 2025 16:28	RC/JU	Not Ok
49	Q3839-22	BN038390.D	13 Dec 2025 17:04	RC/JU	Not Ok
50	Q3839-23	BN038391.D	13 Dec 2025 17:41	RC/JU	Not Ok
51	Q3839-24	BN038392.D	13 Dec 2025 18:17	RC/JU	Not Ok
52	Q3839-25	BN038393.D	13 Dec 2025 18:54	RC/JU	Not Ok
53	Q3839-26	BN038394.D	13 Dec 2025 19:30	RC/JU	Not Ok
54	PB170919BS	BN038395.D	13 Dec 2025 20:06	RC/JU	Not Ok
55	SSTDCCC0.4	BN038396.D	13 Dec 2025 21:18	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 # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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	BN038342.D	12 Dec 2025 08:45		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038343.D	12 Dec 2025 09:24	Compound #20, 24 fail low.	RC/JU	Ok
3	PB170912BL	PB170912BL	BN038344.D	12 Dec 2025 10:00		RC/JU	Ok
4	Q3788-01DL	OWBR-05-135-120525	BN038345.D	12 Dec 2025 10:36		RC/JU	Ok
5	Q3813-01	BR-04DR-451-120825	BN038346.D	12 Dec 2025 11:12		RC/JU	Ok
6	Q3813-03	EB01-120825	BN038347.D	12 Dec 2025 11:49		RC/JU	Ok
7	Q3828-01	BR-02-133-120925	BN038348.D	12 Dec 2025 12:25		RC/JU	Ok
8	Q3828-03	OWBR-06-219-120925	BN038349.D	12 Dec 2025 13:01		RC/JU	Ok,M
9	Q3828-05	RMW-03B-90-120925	BN038350.D	12 Dec 2025 13:38	Need 5X Dilution	RC/JU	Dilution
10	Q3828-06	OWBR-03-138-120925	BN038351.D	12 Dec 2025 14:14		RC/JU	Ok
11	Q3828-08	FB01-120925	BN038352.D	12 Dec 2025 15:26		RC/JU	Ok
12	Q3835-01	MW-11A-13.5-121025	BN038353.D	12 Dec 2025 16:02		RC/JU	Ok
13	Q3835-02	OWBR-01-170-121025	BN038354.D	12 Dec 2025 16:38		RC/JU	Ok
14	Q3835-04	MW-118-37.5-121025	BN038355.D	12 Dec 2025 17:14	Need 20X Dilution	RC/JU	Dilution
15	Q3835-05	MW-01-7-121025	BN038356.D	12 Dec 2025 17:50		RC/JU	Ok
16	PB170912BS	PB170912BS	BN038357.D	12 Dec 2025 18:27		RC/JU	Ok,M
17	PB170912BSD	PB170912BSD	BN038358.D	12 Dec 2025 19:03		RC/JU	Ok,M
18	SSTDCCC0.4	SSTDCCC0.4EC	BN038359.D	12 Dec 2025 20:16	Compound #20 fail low.	RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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	DFTPP	DFTPP	BN038360.D	12 Dec 2025 21:31		RC/JU	Ok
20	SSTDCCC0.4	SSTDCCC0.4	BN038361.D	12 Dec 2025 22:10	Compound #20, 24 fail low.	RC/JU	Ok
21	PB170917BL	PB170917BL	BN038362.D	12 Dec 2025 22:47	CCC fail low for compound #24.	RC/JU	ReRun
22	Q3839-01	C0AM5	BN038363.D	12 Dec 2025 23:24	CCC fail low for compound #24.	RC/JU	ReRun
23	Q3839-02	C0AM6	BN038364.D	13 Dec 2025 00:00	CCC fail low for compound #24.	RC/JU	ReRun
24	Q3839-03MS	C0AM6MS	BN038365.D	13 Dec 2025 00:37	CCC fail low for compound #24.	RC/JU	ReRun
25	Q3839-04MSD	C0AM6MSD	BN038366.D	13 Dec 2025 01:13	CCC fail low for compound #24.	RC/JU	ReRun
26	Q3839-05	C0AN1	BN038367.D	13 Dec 2025 01:50	CCC fail low for compound #24.	RC/JU	ReRun
27	Q3839-06	C0AN2	BN038368.D	13 Dec 2025 02:27	CCC fail low for compound #24.	RC/JU	ReRun
28	Q3839-07	C0AN3	BN038369.D	13 Dec 2025 03:03	CCC fail low for compound #24.	RC/JU	ReRun
29	Q3839-08	C0AN4	BN038370.D	13 Dec 2025 03:40	CCC fail low for compound #24.	RC/JU	ReRun
30	Q3839-11	C0AN7	BN038371.D	13 Dec 2025 04:16	CCC fail low for compound #24.	RC/JU	ReRun
31	Q3839-12	C0AS1	BN038372.D	13 Dec 2025 04:53	CCC fail low for compound #24.	RC/JU	ReRun
32	Q3839-13	C0AS2	BN038373.D	13 Dec 2025 05:29	CCC fail low for compound #24.	RC/JU	ReRun
33	Q3839-14	C0AS3	BN038374.D	13 Dec 2025 06:06	CCC fail low for compound #24.	RC/JU	ReRun
34	Q3839-15	C0AS4	BN038375.D	13 Dec 2025 06:42	CCC fail low for compound #24.	RC/JU	ReRun
35	Q3839-16	C0B02	BN038376.D	13 Dec 2025 07:18	CCC fail low for compound #24.	RC/JU	ReRun
36	PB170917BS	PB170917BS	BN038377.D	13 Dec 2025 07:55		RC/JU	Ok,M
37	SSTDCCC0.4	SSTDCCC0.4EC	BN038378.D	13 Dec 2025 09:08		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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			

38	DFTPP	DFTPP	BN038379.D	13 Dec 2025 10:24		RC/JU	Ok
39	SSTDCCC0.4	SSTDCCC0.4	BN038380.D	13 Dec 2025 11:03	Compound #20 fail low.	RC/JU	Ok
40	PB170919BL	PB170919BL	BN038381.D	13 Dec 2025 11:39	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
41	Q3828-05DL	RMW-03B-90-120925D	BN038382.D	13 Dec 2025 12:16		RC/JU	Ok
42	Q3839-17	C0B11	BN038383.D	13 Dec 2025 12:52		RC/JU	Ok
43	Q3839-18	C0AM7	BN038384.D	13 Dec 2025 13:28	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
44	Q3839-19MS	C0AM7MS	BN038385.D	13 Dec 2025 14:04	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
45	Q3839-19MSD	C0AM7MSD	BN038386.D	13 Dec 2025 14:40	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
46	Q3839-09	C0AN5	BN038387.D	13 Dec 2025 15:16		RC/JU	Ok,M
47	Q3839-10	C0AN6	BN038388.D	13 Dec 2025 15:52	Need 5X.	RC/JU	Dilution
48	Q3839-21	C0B09	BN038389.D	13 Dec 2025 16:28	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
49	Q3839-22	C0AT4	BN038390.D	13 Dec 2025 17:04	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
50	Q3839-23	C0AT5	BN038391.D	13 Dec 2025 17:41	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
51	Q3839-24	C0AT6	BN038392.D	13 Dec 2025 18:17	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
52	Q3839-25	C0AT7	BN038393.D	13 Dec 2025 18:54	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
53	Q3839-26	C0AT8	BN038394.D	13 Dec 2025 19:30	Wrong Sample (Total Scan sample)	RC/JU	Not Ok
54	PB170919BS	PB170919BS	BN038395.D	13 Dec 2025 20:06	Wrong Sample (Total Scan sample)	RC/JU	Not Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN121225

Review By	rahul	Review On	12/12/2025 3:41:10 PM
Supervise By	Jagrut	Supervise On	12/15/2025 2:17:39 PM
SubDirectory	BN121225	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	

55	SSTDCCC0.4	SSTDCCC0.4EC	BN038396.D	13 Dec 2025 21:18		RC/JU	Ok
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M : Manual Integration

A
B
C
D
E
F
G
H
I
J
K

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A **Extraction Start Date :** 12/11/2025

Matrix : Water **Extraction Start Time :** 09:37

Weigh By: N/A **Extraction By:** RS **Extraction End Date :** 12/11/2025

Balance check: N/A **Filter By:** RS **Extraction End Time :** 14:40

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 ☐ Continuous 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	SP6950
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	EP2665
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

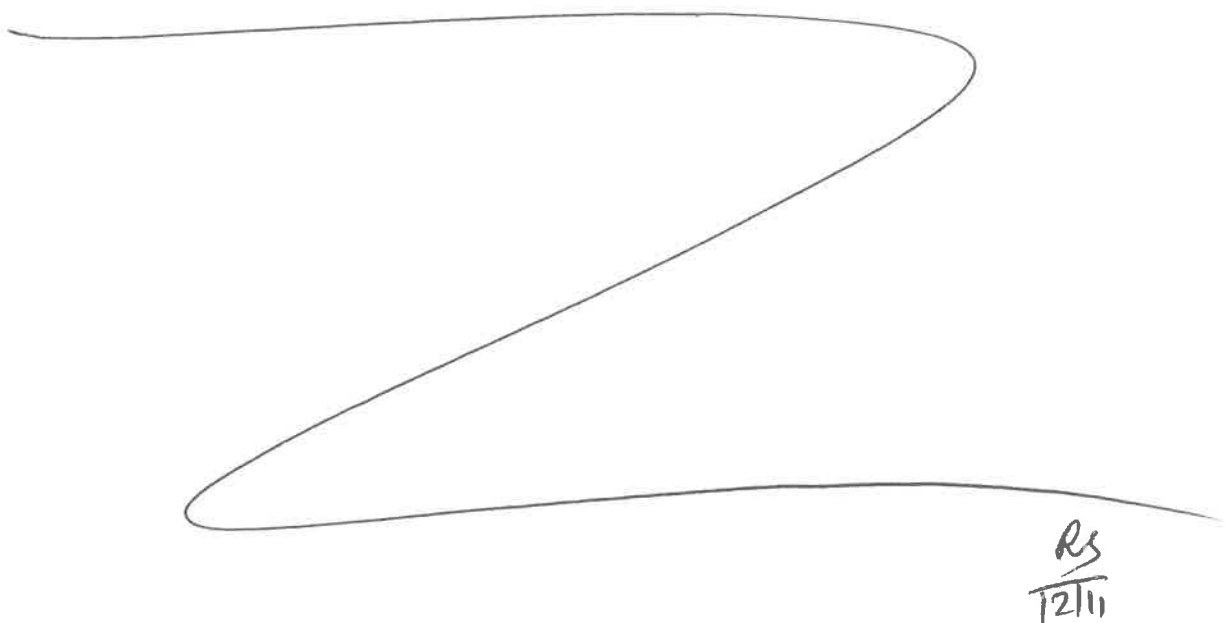
KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/11/25	RS (CB4 Lab)	Rc/svoc
14:45	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 12/11/2025

Sample ID	Client Sample ID	Test	g / (mL)	PH	Surr / Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170912BL	SBLK912	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			SEP-1
PB170912BS	SLCS912	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			2
PB170912BS D	SLCSD912	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1			3
Q3813-01	BR-04DR-451-120825	SVOC-SIMGrou p1	990	6	RUPEsh	ritesh	1	D		4
Q3813-03	EB01-120825	SVOC-SIMGrou p1	910	6	RUPEsh	ritesh	1	G		5
Q3828-01	BR-02-133-120925	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		6
Q3828-03	OWBR-06-219-120925	SVOC-SIMGrou p1	890	11	RUPEsh	ritesh	1	D		7
Q3828-05	RMW-03B-90-120925	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		8
Q3828-06	OWBR-03-138-120925	SVOC-SIMGrou p1	920	11	RUPEsh	ritesh	1	D		9
Q3828-08	FB01-120925	SVOC-SIMGrou p1	920	6	RUPEsh	ritesh	1	D		10
Q3835-01	MW-11A-13.5-121025	SVOC-SIMGrou p1	910	6	RUPEsh	ritesh	1	D		11
Q3835-02	OWBR-01-170-121025	SVOC-SIMGrou p1	950	6	RUPEsh	ritesh	1	D		12
Q3835-04	MW-118-37.5-121025	SVOC-SIMGrou p1	1000	6	RUPEsh	ritesh	1	D		13
Q3835-05	MW-01-7-121025	SVOC-SIMGrou p1	960	6	RUPEsh	ritesh	1	D		14



WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3813 WorkList ID : 193598 Department : Extraction Date : 12-11-2025 09:31:02

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3813-01	BR-04DR-451-120825	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/08/2025	8270-Modified
Q3813-03	EB01-120825	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/08/2025	8270-Modified
Q3828-01	BR-02-133-120925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/09/2025	8270-Modified
Q3828-03	OWBR-06-219-120925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/09/2025	8270-Modified
Q3828-05	RMW-03B-90-120925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/09/2025	8270-Modified
Q3828-06	OWBR-03-138-120925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/09/2025	8270-Modified
Q3828-08	FB01-120925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/09/2025	8270-Modified
Q3835-01	MW-11A-13.5-121025	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/10/2025	8270-Modified
Q3835-02	OWBR-01-170-121025	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/10/2025	8270-Modified
Q3835-04	MW-118-37.5-121025	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/10/2025	8270-Modified
Q3835-05	MW-01-7-121025	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/10/2025	8270-Modified

Date/Time 12/11/25 9:32
 Raw Sample Received by: RS (Ext-662)
 Raw Sample Relinquished by: CR SM

Date/Time 12/11/25 10:15
 Raw Sample Received by: CR SM
 Raw Sample Relinquished by: RS (Ext-662)

LAB CHRONICLE

OrderID:	Q3813	OrderDate:	12/8/2025 4:06:00 PM
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
Q3813-01	BR-04DR-451-120825	Water	SVOC-SIMGroup1	8270-Modified	12/08/25	12/11/25	12/12/25	12/08/25
Q3813-03	EB01-120825	Water	SVOC-SIMGroup1	8270-Modified	12/08/25	12/11/25	12/12/25	12/08/25