

Hit Summary Sheet
SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-11A-13.5-060525							
Q2250-01	MW-11A-13.5-0605	Water	Vinyl Chloride	5.00		0.26	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	1,1-Dichloroethene	4.20		0.23	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	1,1-Dichloroethane	2.80		0.23	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	cis-1,2-Dichloroethene	850	E	0.19	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	Benzene	0.42	J	0.15	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	Trichloroethene	1400	E	0.090	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	1,1,2-Trichloroethane	0.50	J	0.21	1.00	ug/L
Q2250-01	MW-11A-13.5-0605	Water	Tetrachloroethene	9.40		0.23	1.00	ug/L
			Total Voc :	2270				
			Total Concentration:	2270				
Client ID:	MW-11A-13.5-060525DL							
Q2250-01DL	MW-11A-13.5-0605	Water	Vinyl Chloride	6.60	JD	5.20	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605	Water	cis-1,2-Dichloroethene	1000	D	3.80	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605	Water	Trichloroethene	1700	D	1.90	20.0	ug/L
Q2250-01DL	MW-11A-13.5-0605	Water	Tetrachloroethene	12.2	JD	4.60	20.0	ug/L
			Total Voc :	2720				
			Total Concentration:	2720				



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086921.D	1		06/10/25 12:30	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.00		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	4.20		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	2.80		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	850	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.42	J	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	1400	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	J	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	9.40		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.8		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.4		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	51.3		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	362000	8.23			
540-36-3	1,4-Difluorobenzene	673000	9.106			
3114-55-4	Chlorobenzene-d5	593000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	281000	13.788			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525DL	SDG No.:	Q2250
Lab Sample ID:	Q2250-01DL	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086948.D	20		06/11/25 15:06	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	6.60	JD	5.20	20.0	ug/L
75-35-4	1,1-Dichloroethene	4.60	UD	4.60	20.0	ug/L
75-34-3	1,1-Dichloroethane	4.60	UD	4.60	20.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1000	D	3.80	20.0	ug/L
71-55-6	1,1,1-Trichloroethane	4.00	UD	4.00	20.0	ug/L
71-43-2	Benzene	3.00	UD	3.00	20.0	ug/L
107-06-2	1,2-Dichloroethane	4.40	UD	4.40	20.0	ug/L
79-01-6	Trichloroethene	1700	D	1.90	20.0	ug/L
79-00-5	1,1,2-Trichloroethane	4.20	UD	4.20	20.0	ug/L
127-18-4	Tetrachloroethene	12.2	JD	4.60	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.3		70 (74) - 130 (125)	93%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	272000	8.236			
540-36-3	1,4-Difluorobenzene	500000	9.106			
3114-55-4	Chlorobenzene-d5	435000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	208000	13.788			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086919.D	1		06/10/25 11:47	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.9		70 (74) - 130 (125)	96%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.5		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	233000	8.23			
540-36-3	1,4-Difluorobenzene	433000	9.106			
3114-55-4	Chlorobenzene-d5	381000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.788			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	TB-01-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-06	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086920.D	1		06/10/25 12:08	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.2		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.8		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	51.1		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.1		70 (77) - 130 (121)	98%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	350000	8.23			
540-36-3	1,4-Difluorobenzene	649000	9.106			
3114-55-4	Chlorobenzene-d5	564000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	266000	13.788			

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QC SUMMARY

Surrogate Summary

SDG No.: **Q2250**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2250-01	MW-11A-13.5-060525	1,2-Dichloroethane-d4	50	47.8	96	70 (74)	130 (125)
		Dibromofluoromethane	50	49.4	99	70 (75)	130 (124)
		Toluene-d8	50	51.3	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)
Q2250-01DL	MW-11A-13.5-060525DL	1,2-Dichloroethane-d4	50	46.3	93	70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
Q2250-02MS	MW-11A-13.5-060525MS	1,2-Dichloroethane-d4	50	49.9	100	70 (74)	130 (125)
		Dibromofluoromethane	50	52.4	105	70 (75)	130 (124)
		Toluene-d8	50	51.2	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.9	102	70 (77)	130 (121)
Q2250-03MSD	MW-11A-13.5-060525MSD	1,2-Dichloroethane-d4	50	52.7	105	70 (74)	130 (125)
		Dibromofluoromethane	50	56.6	113	70 (75)	130 (124)
		Toluene-d8	50	54.8	110	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.3	111	70 (77)	130 (121)
Q2250-05	EB02-060525	1,2-Dichloroethane-d4	50	47.9	96	70 (74)	130 (125)
		Dibromofluoromethane	50	48.8	98	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.9	98	70 (77)	130 (121)
Q2250-06	TB-01-060525	1,2-Dichloroethane-d4	50	47.2	94	70 (74)	130 (125)
		Dibromofluoromethane	50	48.8	98	70 (75)	130 (124)
		Toluene-d8	50	51.1	102	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.1	98	70 (77)	130 (121)
VN0610WBL01	VN0610WBL01	1,2-Dichloroethane-d4	50	46.7	93	70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98	70 (75)	130 (124)
		Toluene-d8	50	51.5	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.0	98	70 (77)	130 (121)
VN0610WBS01	VN0610WBS01	1,2-Dichloroethane-d4	50	45.4	91	70 (74)	130 (125)
		Dibromofluoromethane	50	49.5	99	70 (75)	130 (124)
		Toluene-d8	50	48.6	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.3	97	70 (77)	130 (121)
VN0611WBL01	VN0611WBL01	1,2-Dichloroethane-d4	50	48.3	97	70 (74)	130 (125)
		Dibromofluoromethane	50	49.3	99	70 (75)	130 (124)
		Toluene-d8	50	51.7	103	70 (86)	130 (113)
		4-Bromofluorobenzene	50	49.4	99	70 (77)	130 (121)
VN0611WBS02	VN0611WBS02	1,2-Dichloroethane-d4	50	47.1	94	70 (74)	130 (125)
		Dibromofluoromethane	50	51.1	102	70 (75)	130 (124)
		Toluene-d8	50	48.7	97	70 (86)	130 (113)
		4-Bromofluorobenzene	50	50.0	100	70 (77)	130 (121)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample Result	Result	Units	Rec		RPD	RPD Qual	Limits		RPD
					Rec	Qual			Low	High	
Lab Sample ID :	Q2250-02MS	Client Sample ID :	MW-11A-13.5-060525MS						Datafile :	VN086922.D	
Vinyl chloride	50	5.00	50.4	ug/L	91				70 (69)	130 (125)	
1,1-Dichloroethene	50	4.20	47.9	ug/L	87				70 (53)	130 (162)	
1,1-Dichloroethane	50	2.80	45.2	ug/L	85				70 (78)	130 (122)	
cis-1,2-Dichloroethene	50	850	1900	ug/L	2100	*			70 (82)	130 (124)	
1,1,1-Trichloroethane	50	0	37.2	ug/L	74				70 (83)	130 (117)	
Benzene	50	0.42	39.1	ug/L	77				70 (81)	130 (128)	
1,2-Dichloroethane	50	0	39.3	ug/L	79				70 (76)	130 (120)	
Trichloroethene	50	1400	2900	ug/L	3000	*			70 (28)	130 (175)	
1,1,2-Trichloroethane	50	0.50	40.0	ug/L	79				70 (27)	130 (175)	
Tetrachloroethene	50	9.40	57.0	ug/L	95				70 (48)	130 (153)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample Result	Result	Units	Rec Qual	RPD	RPD Qual	Low	High	RPD	
Lab Sample ID :	Q2250-03MSD	Client Sample ID :	MW-11A-13.5-060525MSD				Datafile :	VN086923.D			
Vinyl chloride	50	5.00	57.2	ug/L	104		13	70 (69)	130 (125)	20 (20)	
1,1-Dichloroethene	50	4.20	53.1	ug/L	98		12	70 (53)	130 (162)	20 (20)	
1,1-Dichloroethane	50	2.80	49.5	ug/L	93		9	70 (78)	130 (122)	20 (20)	
cis-1,2-Dichloroethene	50	850	2100	ug/L	2500	*	17	70 (82)	130 (124)	20 (20)	
1,1,1-Trichloroethane	50	0	41.4	ug/L	83		11	70 (83)	130 (117)	20 (20)	
Benzene	50	0.42	43.0	ug/L	85		10	70 (81)	130 (128)	20 (20)	
1,2-Dichloroethane	50	0	43.1	ug/L	86		9	70 (76)	130 (120)	20 (20)	
Trichloroethene	50	1400	3300	ug/L	3800	*	24	*	70 (28)	130 (175)	20 (20)
1,1,2-Trichloroethane	50	0.50	44.5	ug/L	88		11	70 (27)	130 (175)	20 (20)	
Tetrachloroethene	50	9.40	66.0	ug/L	113		17	70 (48)	130 (153)	20 (20)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086916.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0610WBS01	Vinyl chloride	20	18.0	ug/L	90			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.7	ug/L	94			70 (74)	130 (110)	
	1,1-Dichloroethane	20	18.2	ug/L	91			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.7	ug/L	94			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	18.1	ug/L	91			70 (80)	130 (108)	
	Benzene	20	18.5	ug/L	93			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	19.3	ug/L	97			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	19.5	ug/L	98			70 (83)	130 (112)	
	Tetrachloroethene	20	17.9	ug/L	90			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VN086944.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0611WBS02	Vinyl chloride	20	18.9	ug/L	95			70 (65)	130 (117)	
	1,1-Dichloroethene	20	19.2	ug/L	96			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.4	ug/L	97			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.5	ug/L	98			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	19.0	ug/L	95			70 (80)	130 (108)	
	Benzene	20	19.3	ug/L	97			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.5	ug/L	98			70 (80)	130 (115)	
	Trichloroethene	20	19.9	ug/L	100			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	20.4	ug/L	102			70 (83)	130 (112)	
	Tetrachloroethene	20	19.2	ug/L	96			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0610WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q2250

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: VN086915.D

Lab Sample ID: VN0610WBL01

Date Analyzed: 06/10/2025

Time Analyzed: 10:09

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
VN0610WBS01	VN0610WBS01	VN086916.D	06/10/2025
EB02-060525	Q2250-05	VN086919.D	06/10/2025
TB-01-060525	Q2250-06	VN086920.D	06/10/2025
MW-11A-13.5-060525	Q2250-01	VN086921.D	06/10/2025
MW-11A-13.5-060525MS	Q2250-02MS	VN086922.D	06/10/2025
MW-11A-13.5-060525MSD	Q2250-03MSD	VN086923.D	06/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0611WBL01

Lab Name: CHEMTECH

Contract: JACO05

Lab Code: CHEM Case No.: Q2250

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: VN086942.D

Lab Sample ID: VN0611WBL01

Date Analyzed: 06/11/2025

Time Analyzed: 12:28

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
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025
MW-11A-13.5-060525DL	Q2250-01DL	VN086948.D	06/11/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086861.D BFB Injection Date: 06/06/2025
Instrument ID: MSVOA_N BFB Injection Time: 07:59
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	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDIC001	VSTDIC001	VN086862.D	06/06/2025	12:44
VSTDIC005	VSTDIC005	VN086863.D	06/06/2025	13:17
VSTDIC020	VSTDIC020	VN086864.D	06/06/2025	13:40
VSTDIC050	VSTDIC050	VN086865.D	06/06/2025	14:03
VSTDIC100	VSTDIC100	VN086866.D	06/06/2025	14:26
VSTDIC150	VSTDIC150	VN086867.D	06/06/2025	14:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086912.D BFB Injection Date: 06/10/2025
Instrument ID: MSVOA_N BFB Injection Time: 08:39
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	16.1
75	30.0 - 60.0% of mass 95	47.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.1
175	5.0 - 9.0% of mass 174	5.3 (7.2) 1
176	95.0 - 101.0% of mass 174	71.3 (97.5) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VN086913.D	06/10/2025	09:13
VN0610WBL01	VN0610WBL01	VN086915.D	06/10/2025	10:09
VN0610WBS01	VN0610WBS01	VN086916.D	06/10/2025	10:30
EB02-060525	Q2250-05	VN086919.D	06/10/2025	11:47
TB-01-060525	Q2250-06	VN086920.D	06/10/2025	12:08
MW-11A-13.5-060525	Q2250-01	VN086921.D	06/10/2025	12:30
MW-11A-13.5-060525MS	Q2250-02MS	VN086922.D	06/10/2025	12:51
MW-11A-13.5-060525MSD	Q2250-03MSD	VN086923.D	06/10/2025	13:12

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086939.D BFB Injection Date: 06/11/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:22
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	15.7
75	30.0 - 60.0% of mass 95	46.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	71.1
175	5.0 - 9.0% of mass 174	5.4 (7.5) 1
176	95.0 - 101.0% of mass 174	68.8 (96.8) 1
177	5.0 - 9.0% of mass 176	4.8 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VN086940.D	06/11/2025	11:32
VN0611WBL01	VN0611WBL01	VN086942.D	06/11/2025	12:28
VN0611WBS02	VN0611WBS02	VN086944.D	06/11/2025	13:27
MW-11A-13.5-060525DL	Q2250-01DL	VN086948.D	06/11/2025	15:06

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
 Lab File ID: VN086913.D Date Analyzed: 06/10/2025
 Instrument ID: MSVOA_N Time Analyzed: 09:13
 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	239452	8.23	422119	9.11	362285	11.87
UPPER LIMIT	478904	8.73	844238	9.606	724570	12.365
LOWER LIMIT	119726	7.73	211060	8.606	181143	11.365
EPA SAMPLE NO.						
MW-11A-13.5-060525	361832	8.23	672514	9.11	593044	11.87
MW-11A-13.5-060525MS	174378	8.23	310932	9.11	270945	11.87
MW-11A-13.5-060525MSD	172955	8.23	309901	9.11	266637	11.87
EB02-060525	232754	8.23	433385	9.11	381245	11.87
TB-01-060525	350151	8.23	648560	9.11	563762	11.87
VN0610WBL01	241251	8.23	440901	9.11	386425	11.87
VN0610WBS01	249843	8.23	443174	9.11	389297	11.87

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: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086913.D Date Analyzed: 06/10/2025
Instrument ID: MSVOA_N Time Analyzed: 09:13
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	170987	13.788				
UPPER LIMIT	341974	14.288				
LOWER LIMIT	85493.5	13.288				
EPA SAMPLE NO.						
MW-11A-13.5-060525	281220	13.79				
MW-11A-13.5-060525MS	132628	13.79				
MW-11A-13.5-060525MSD	129873	13.79				
EB02-060525	180063	13.79				
TB-01-060525	266280	13.79				
VN0610WBL01	183380	13.79				
VN0610WBS01	189620	13.79				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JAC005
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086940.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_N Time Analyzed: 11:32
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	205098	8.23	357643	9.11	312173	11.87
UPPER LIMIT	410196	8.73	715286	9.606	624346	12.365
LOWER LIMIT	102549	7.73	178822	8.606	156087	11.365
EPA SAMPLE NO.						
MW-11A-13.5-060525DL	272350	8.24	500042	9.11	434591	11.87
VN0611WBL01	328120	8.23	618651	9.11	543433	11.87
VN0611WBS02	206799	8.24	370524	9.11	321188	11.87

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: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250
Lab File ID: VN086940.D Date Analyzed: 06/11/2025
Instrument ID: MSVOA_N Time Analyzed: 11:32
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	152136	13.788				
UPPER LIMIT	304272	14.288				
LOWER LIMIT	76068	13.288				
EPA SAMPLE NO.						
MW-11A-13.5-060525DL	208257	13.79				
VN0611WBL01	257257	13.79				
VN0611WBS02	157403	13.79				

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

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:	VN0611WBL01	SDG No.:	Q2250
Lab Sample ID:	VN0611WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086942.D	1		06/11/25 12:28	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		70 (74) - 130 (125)	97%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	51.7		70 (86) - 130 (113)	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.4		70 (77) - 130 (121)	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	328000	8.23			
540-36-3	1,4-Difluorobenzene	619000	9.106			
3114-55-4	Chlorobenzene-d5	543000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	257000	13.788			

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:	VN0610WBS01	SDG No.:	Q2250
Lab Sample ID:	VN0610WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	RXI-624	ID :	0.25
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086916.D	1		06/10/25 10:30	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.0		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.7		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.1		0.20	1.00	ug/L
71-43-2	Benzene	18.5		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.3		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.5		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	17.9		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.4		70 (74) - 130 (125)	91%	SPK: 50
1868-53-7	Dibromofluoromethane	49.5		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	250000	8.23			
540-36-3	1,4-Difluorobenzene	443000	9.106			
3114-55-4	Chlorobenzene-d5	389000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	190000	13.788			

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:	VN0611WBS02	SDG No.:	Q2250
Lab Sample ID:	VN0611WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086944.D	1		06/11/25 13:27	VN061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.4		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.5		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.9		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.4		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.1		70 (74) - 130 (125)	94%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		70 (77) - 130 (121)	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	207000	8.235			
540-36-3	1,4-Difluorobenzene	371000	9.106			
3114-55-4	Chlorobenzene-d5	321000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	157000	13.788			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MS	SDG No.:	Q2250
Lab Sample ID:	Q2250-02MS	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086922.D	1		06/10/25 12:51	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	50.4		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	47.9		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	45.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	1900	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	37.2		0.20	1.00	ug/L
71-43-2	Benzene	39.1		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	39.3		0.22	1.00	ug/L
79-01-6	Trichloroethene	2900	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	40.0		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	57.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.9		70 (74) - 130 (125)	100%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		70 (75) - 130 (124)	105%	SPK: 50
2037-26-5	Toluene-d8	51.2		70 (86) - 130 (113)	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		70 (77) - 130 (121)	102%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	174000	8.23			
540-36-3	1,4-Difluorobenzene	311000	9.106			
3114-55-4	Chlorobenzene-d5	271000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	133000	13.788			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MSD	SDG No.:	Q2250
Lab Sample ID:	Q2250-03MSD	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086923.D	1		06/10/25 13:12	VN061025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	57.2		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	53.1		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	49.5		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	2100	E	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	41.4		0.20	1.00	ug/L
71-43-2	Benzene	43.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	43.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	3300	E	0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	44.5		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	66.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.7		70 (74) - 130 (125)	105%	SPK: 50
1868-53-7	Dibromofluoromethane	56.6		70 (75) - 130 (124)	113%	SPK: 50
2037-26-5	Toluene-d8	54.8		70 (86) - 130 (113)	110%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	173000	8.23			
540-36-3	1,4-Difluorobenzene	310000	9.106			
3114-55-4	Chlorobenzene-d5	267000	11.865			
3855-82-1	1,4-Dichlorobenzene-d4	130000	13.788			

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: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

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

LAB FILE ID:		RRF001 = VN086862.D		RRF005 = VN086863.D		RRF020 = VN086864.D			
		RRF050 = VN086865.D		RRF100 = VN086866.D		RRF150 = VN086867.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5	
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4	
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2	
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9	
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9	
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2	
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6	
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2	
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7	
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5	
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1	
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2	
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2	
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2	

* 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: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250

Instrument ID: MSVOA_N Calibration Date/Time: 06/10/2025 09:13

Lab File ID: VN086913.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.653		-1.66	20
1,1-Dichloroethene	0.557	0.548		-1.62	20
1,1-Dichloroethane	1.120	1.079	0.1	-3.66	20
cis-1,2-Dichloroethene	0.740	0.721		-2.57	20
1,1,1-Trichloroethane	0.951	0.894		-5.99	20
Benzene	1.444	1.400		-3.05	20
1,2-Dichloroethane	0.438	0.426		-2.74	20
Trichloroethene	0.342	0.345		0.88	20
1,1,2-Trichloroethane	0.340	0.338		-0.59	20
Tetrachloroethene	0.316	0.308		-2.53	20
1,2-Dichloroethane-d4	0.669	0.613		-8.37	20
Dibromofluoromethane	0.296	0.301		1.69	20
Toluene-d8	1.173	1.153		-1.71	20
4-Bromofluorobenzene	0.436	0.420		-3.67	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250

Instrument ID: MSVOA_N Calibration Date/Time: 06/11/2025 11:32

Lab File ID: VN086940.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.664	0.701		5.57	20
1,1-Dichloroethene	0.557	0.593		6.46	20
1,1-Dichloroethane	1.120	1.178	0.1	5.18	20
cis-1,2-Dichloroethene	0.740	0.793		7.16	20
1,1,1-Trichloroethane	0.951	0.976		2.63	20
Benzene	1.444	1.554		7.55	20
1,2-Dichloroethane	0.438	0.472		7.76	20
Trichloroethene	0.342	0.382		11.7	20
1,1,2-Trichloroethane	0.340	0.383		12.65	20
Tetrachloroethene	0.316	0.337		6.65	20
1,2-Dichloroethane-d4	0.669	0.622		-7.03	20
Dibromofluoromethane	0.296	0.309		4.39	20
Toluene-d8	1.173	1.181		0.68	20
4-Bromofluorobenzene	0.436	0.440		0.92	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\VN061025\
 Data File : VN086921.D
 Acq On : 10 Jun 2025 12:30
 Operator : JC\MD
 Sample : Q2250-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	361832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	672514	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	593044	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	281220	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	231529	47.792	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.580%
35) Dibromofluoromethane	8.177	113	196952	49.417	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.840%
50) Toluene-d8	10.565	98	809307	51.295	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.600%
62) 4-Bromofluorobenzene	12.847	95	293403	50.054	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	100.100%

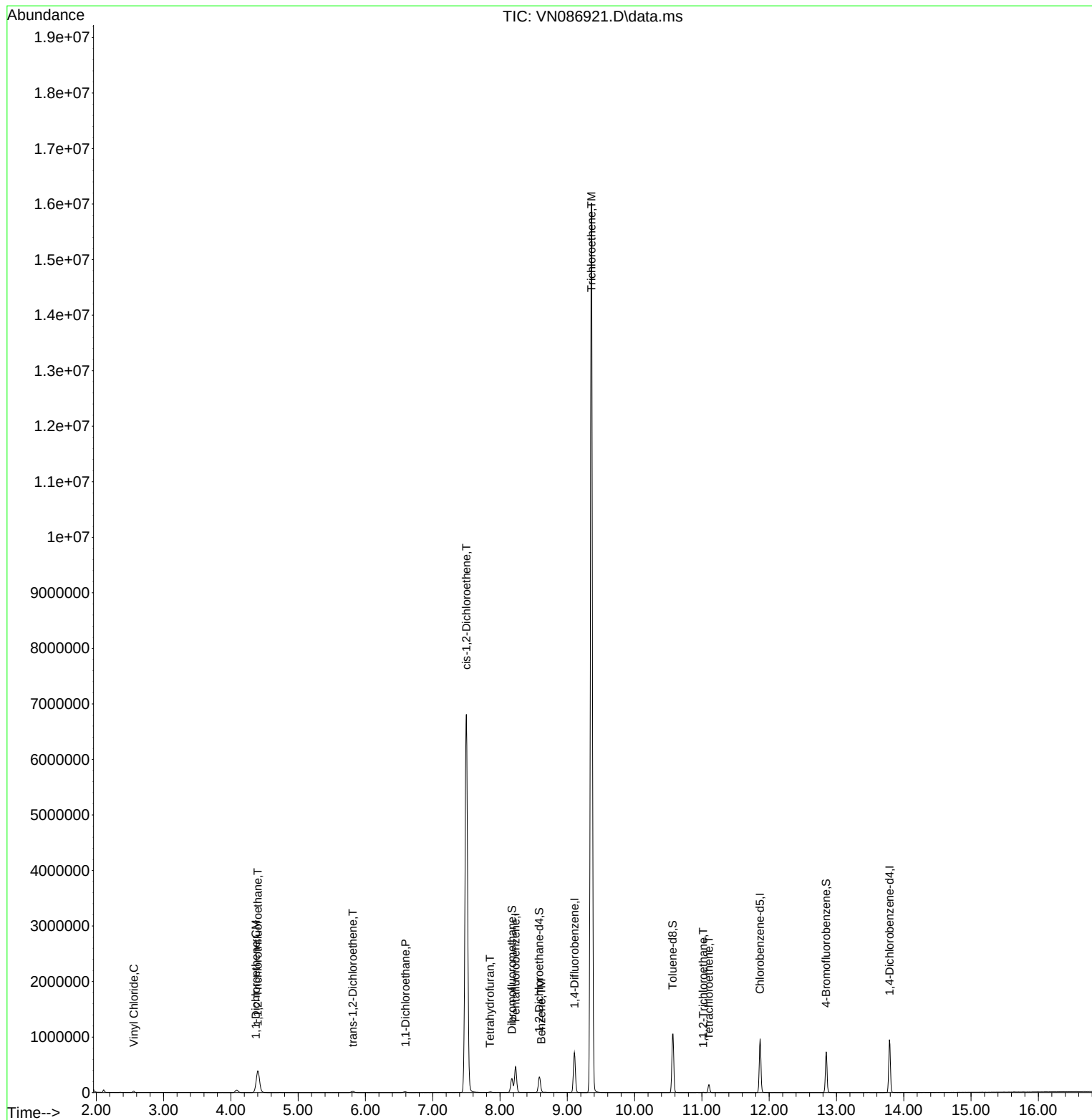
Target Compounds						Qvalue
4) Vinyl Chloride	2.559	62	24226	5.041	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.400	101	302235	76.617	ug/l	99
12) 1,1-Dichloroethene	4.371	96	16986	4.218	ug/l	100
21) trans-1,2-Dichloroethene	5.812	96	16472	3.676	ug/l	88
24) 1,1-Dichloroethane	6.594	63	22723	2.805	ug/l	96
27) cis-1,2-Dichloroethene	7.500	96	4534458	846.190	ug/l	90
29) Tetrahydrofuran	7.853	42	9084	3.339	ug/l	95
40) Benzene	8.612	78	8119	0.418	ug/l	95
44) Trichloroethene	9.359	130	6309047	1370.098	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	2269	0.497	ug/l	95
64) Tetrachloroethene	11.106	164	35442	9.443	ug/l	96

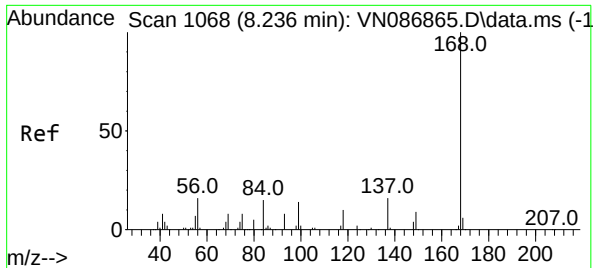
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086921.D
Acq On : 10 Jun 2025 12:30
Operator : JC\MD
Sample : Q2250-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

Quant Time: Jun 11 01:52:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

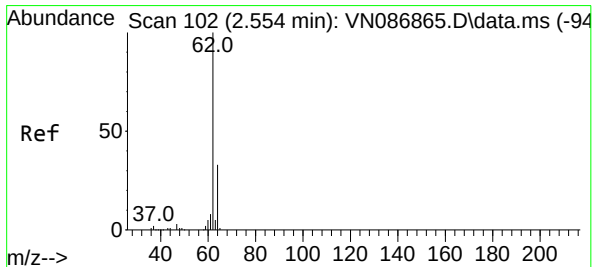
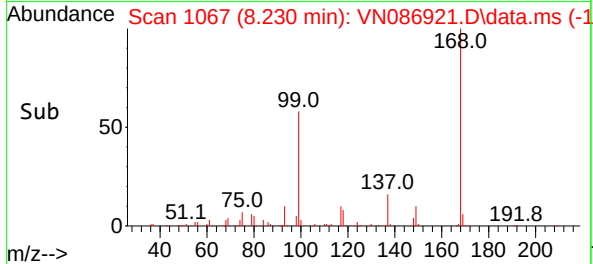
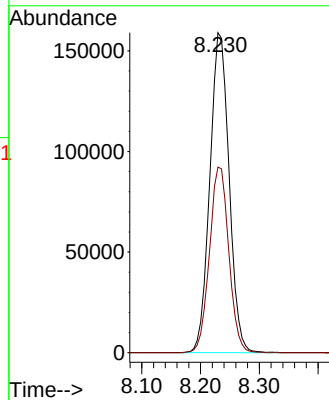
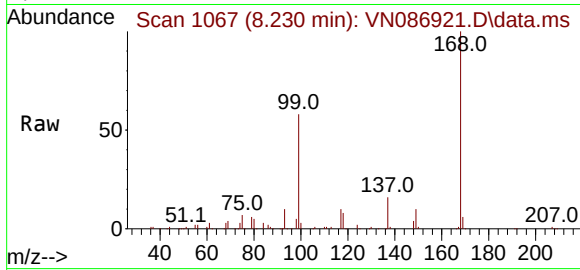




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

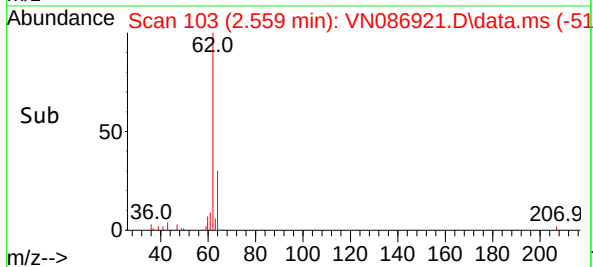
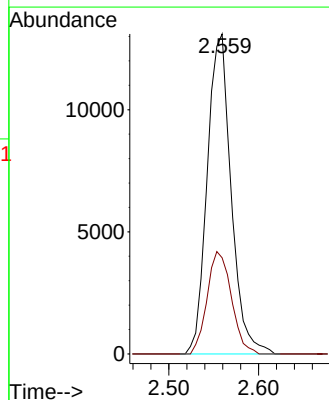
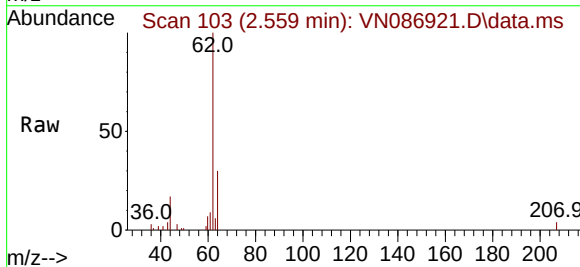
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

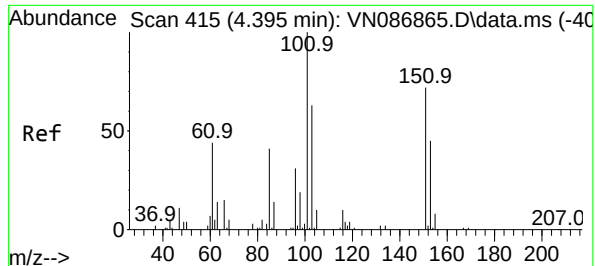
Tgt Ion:168 Resp: 361832
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#4
Vinyl Chloride
Concen: 5.041 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 62 Resp: 24226
Ion Ratio Lower Upper
62 100
64 30.0 26.0 39.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 76.617 ug/l

RT: 4.400 min Scan# 411

Delta R.T. 0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525

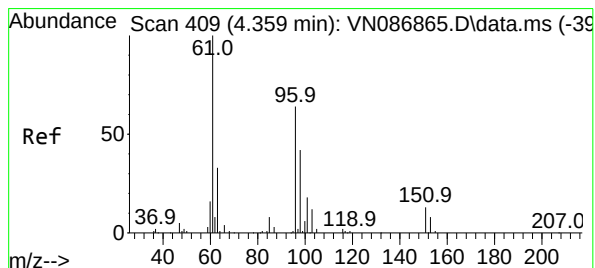
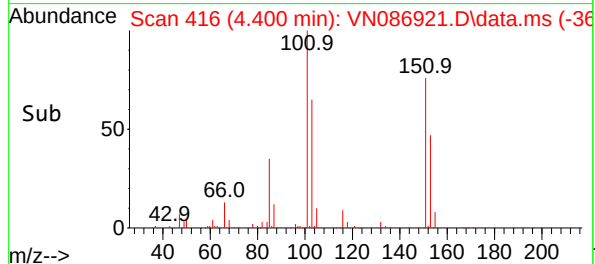
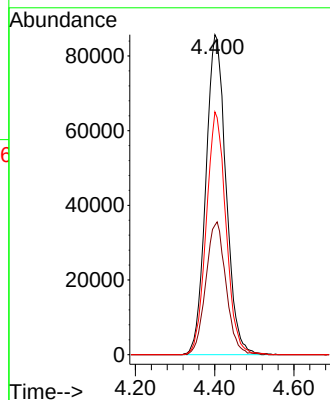
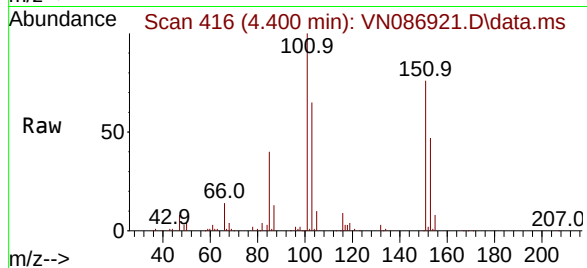
Tgt Ion:101 Resp: 302235

Ion Ratio Lower Upper

101 100

85 41.6 33.8 50.8

151 74.1 58.7 88.1



#12

1,1-Dichloroethene

Concen: 4.218 ug/l

RT: 4.371 min Scan# 411

Delta R.T. 0.012 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

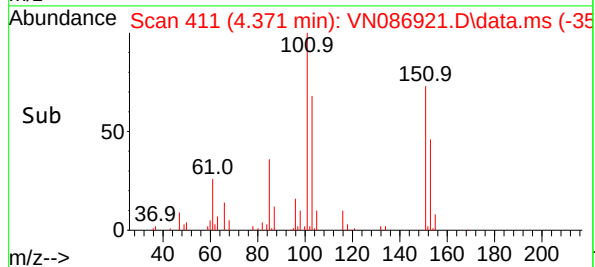
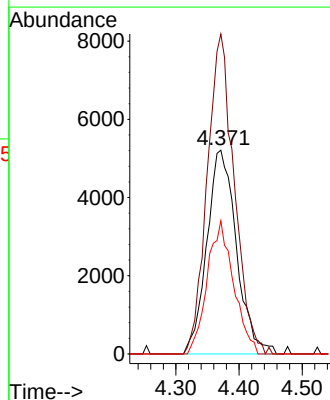
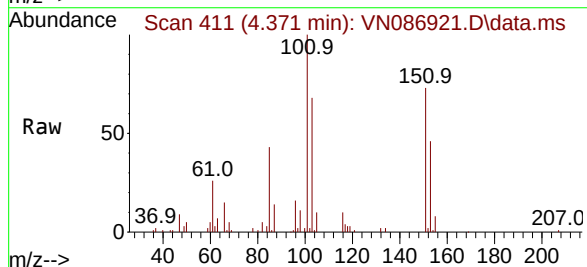
Tgt Ion: 96 Resp: 16986

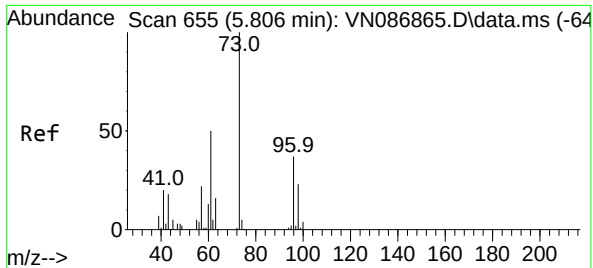
Ion Ratio Lower Upper

96 100

61 157.0 125.8 188.6

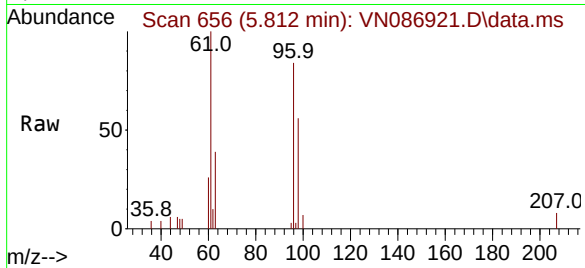
98 65.3 52.5 78.7



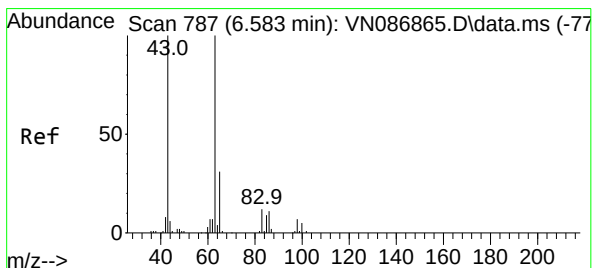
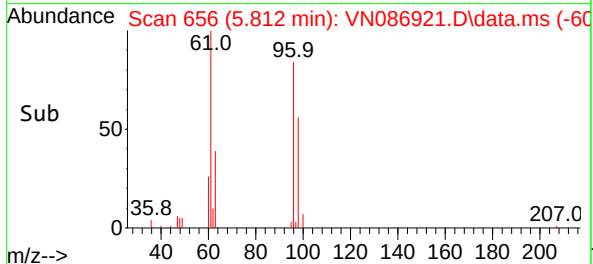
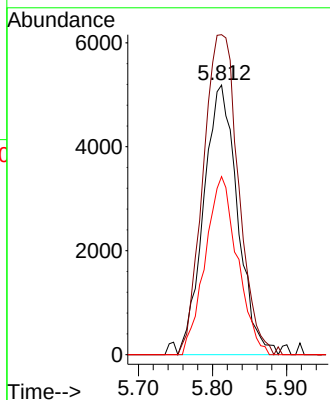


#21
trans-1,2-Dichloroethene
Concen: 3.676 ug/l
RT: 5.812 min Scan# 61
Delta R.T. 0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

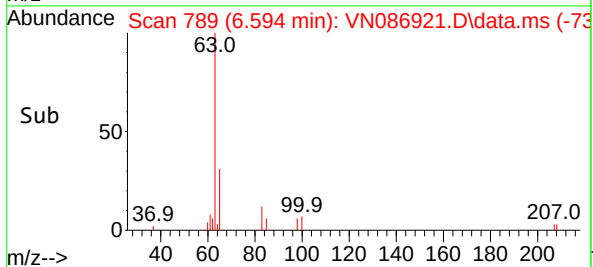
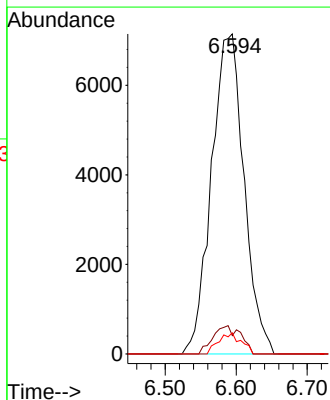
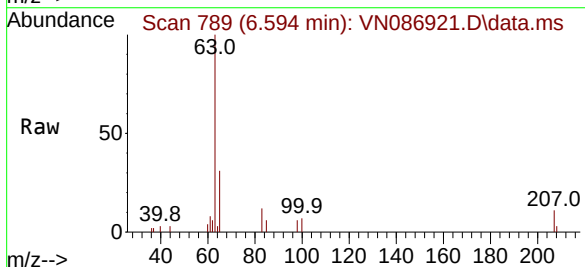


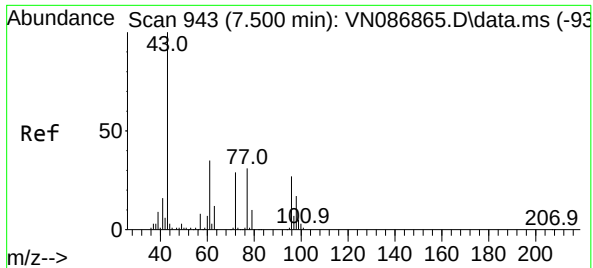
Tgt Ion: 96 Resp: 16472
Ion Ratio Lower Upper
96 100
61 118.7 109.2 163.8
98 66.1 49.8 74.8



#24
1,1-Dichloroethane
Concen: 2.805 ug/l
RT: 6.594 min Scan# 789
Delta R.T. 0.012 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 63 Resp: 22723
Ion Ratio Lower Upper
63 100
98 5.8 3.6 10.8
100 6.6 2.6 7.8





#27

cis-1,2-Dichloroethene

Concen: 846.190 ug/l

RT: 7.500 min Scan# 94

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

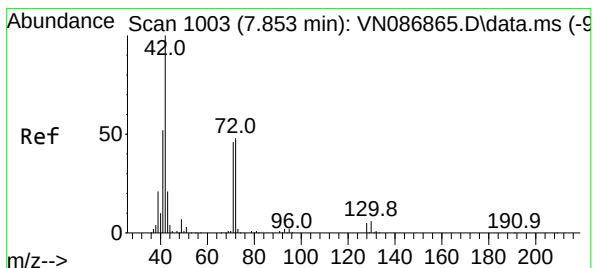
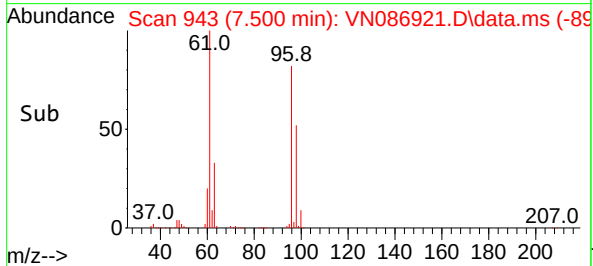
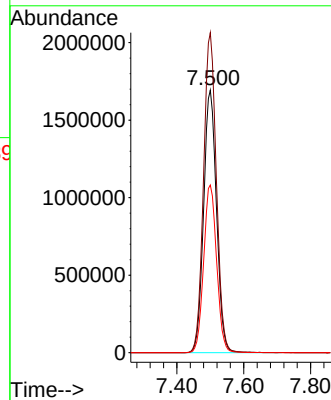
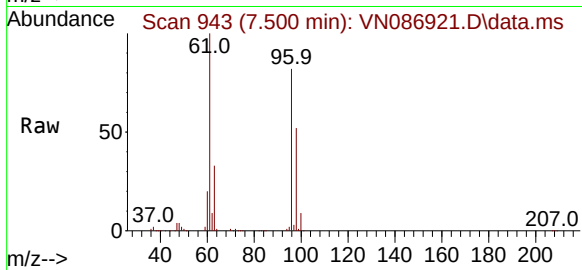
MSVOA_N

ClientSampleId :

MW-11A-13.5-060525

Tgt Ion: 96 Resp: 4534458

Ion	Ratio	Lower	Upper
96	100		
61	121.3	0.0	278.0
98	64.3	0.0	128.2



#29

Tetrahydrofuran

Concen: 3.339 ug/l

RT: 7.853 min Scan# 1003

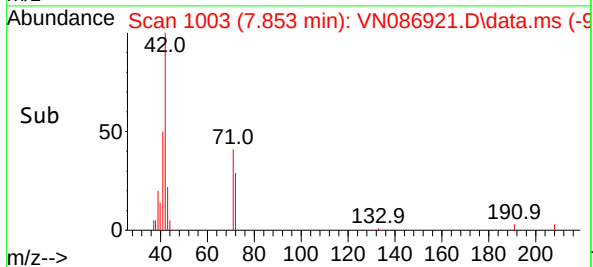
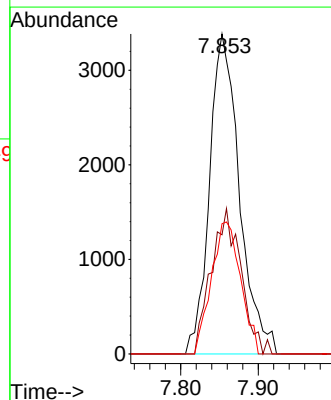
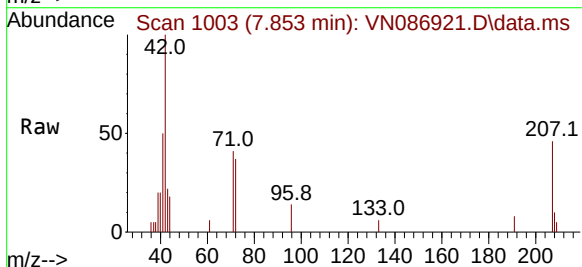
Delta R.T. -0.000 min

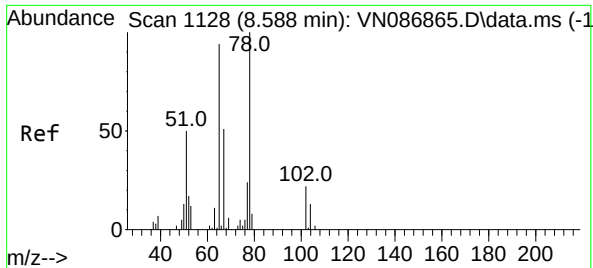
Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Tgt Ion: 42 Resp: 9084

Ion	Ratio	Lower	Upper
42	100		
72	45.2	37.8	56.6
71	40.1	35.6	53.4





#33

1,2-Dichloroethane-d4

Concen: 47.792 ug/l

RT: 8.582 min Scan# 1128

Delta R.T. -0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

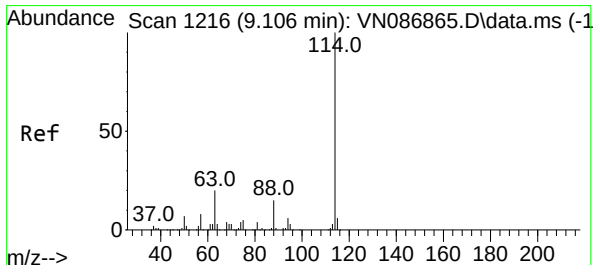
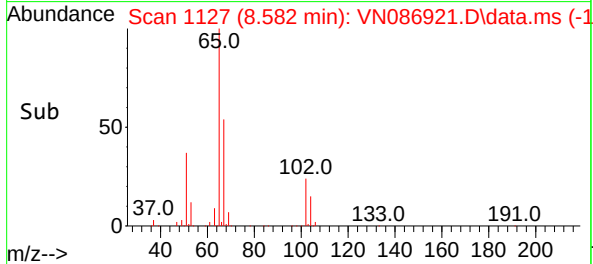
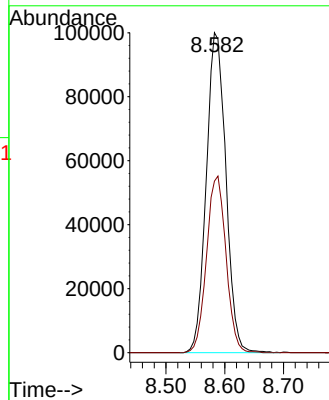
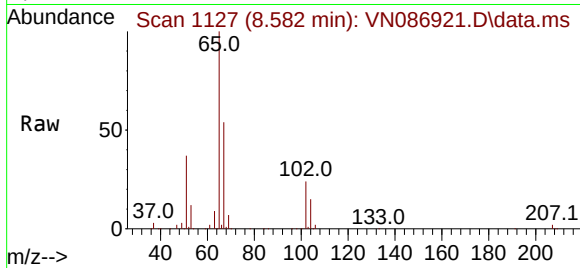
MW-11A-13.5-060525

Tgt Ion: 65 Resp: 231529

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

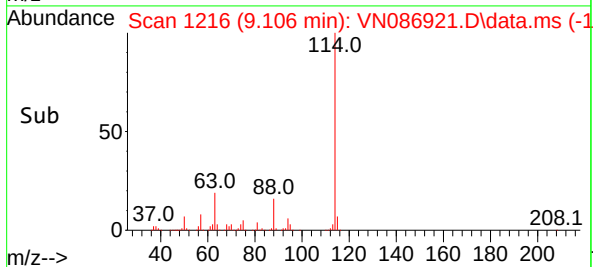
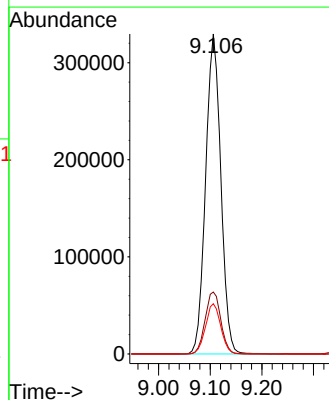
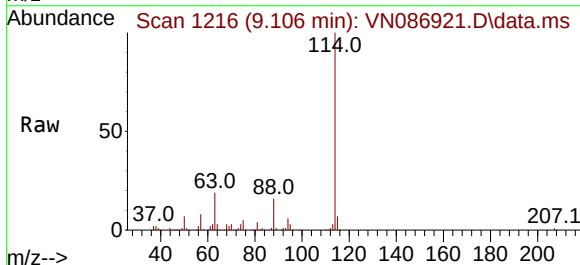
Tgt Ion: 114 Resp: 672514

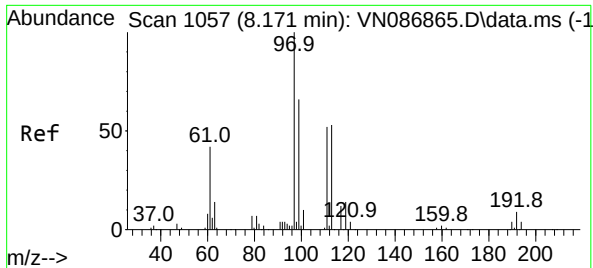
Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.6

88 15.7 0.0 30.2





#35

Dibromofluoromethane

Concen: 49.417 ug/l

RT: 8.177 min Scan# 1105

Delta R.T. 0.006 min

Lab File: VN086921.D

Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525

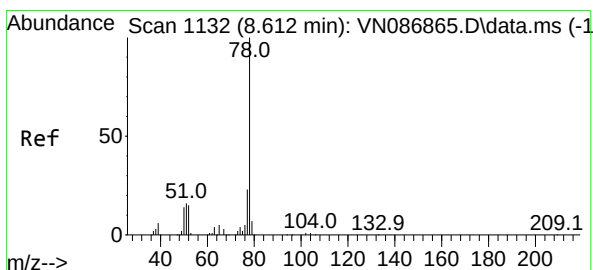
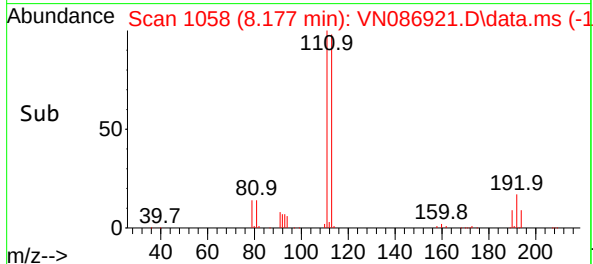
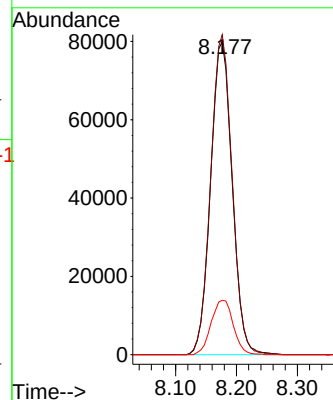
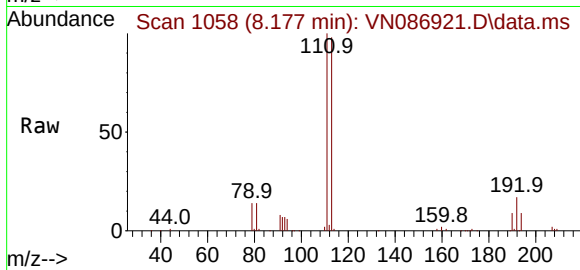
Tgt Ion:113 Resp: 196952

Ion Ratio Lower Upper

113 100

111 101.7 84.2 126.2

192 17.8 14.2 21.4



#40

Benzene

Concen: 0.418 ug/l

RT: 8.612 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VN086921.D

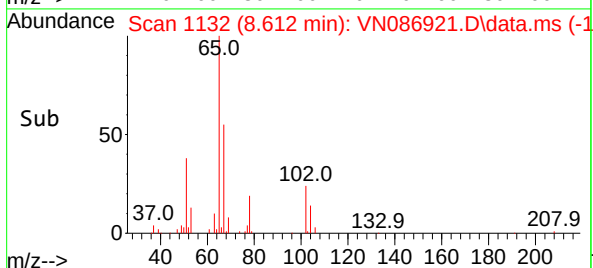
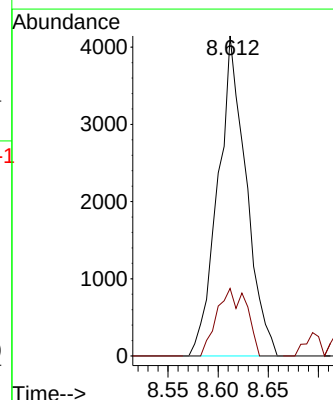
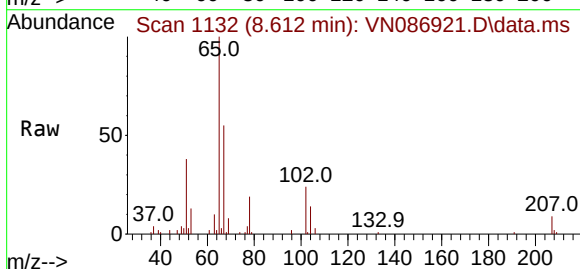
Acq: 10 Jun 2025 12:30

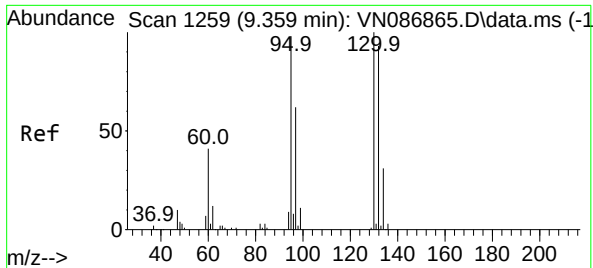
Tgt Ion: 78 Resp: 8119

Ion Ratio Lower Upper

78 100

77 21.1 18.7 28.1

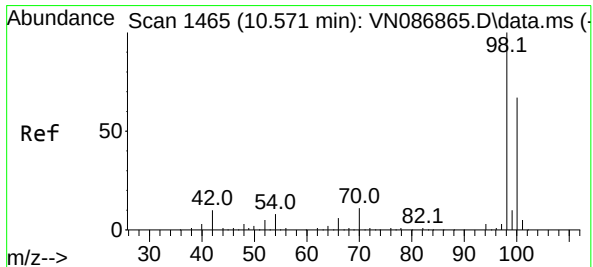
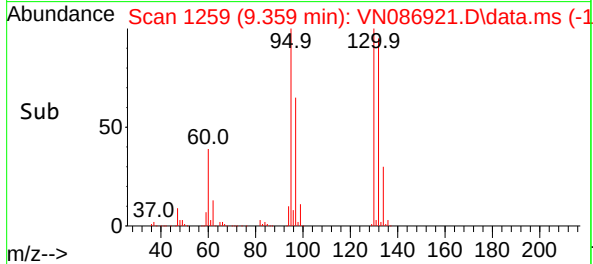
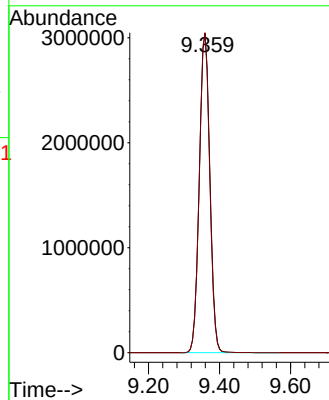
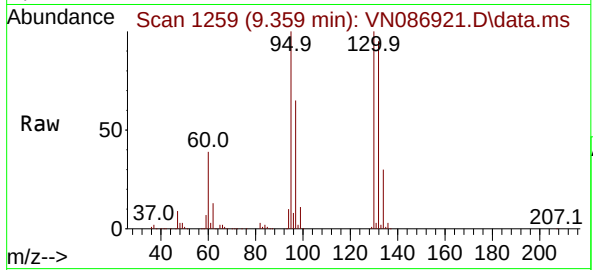




#44
Trichloroethene
Concen: 1370.098 ug/l
RT: 9.359 min Scan# 1259
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

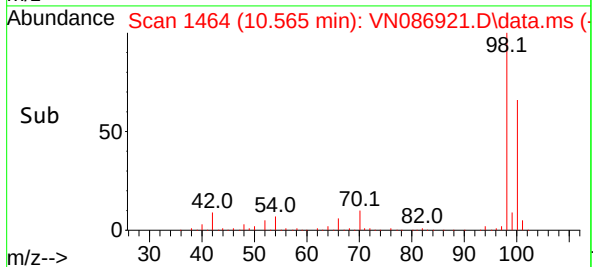
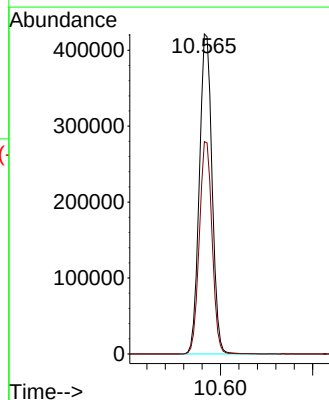
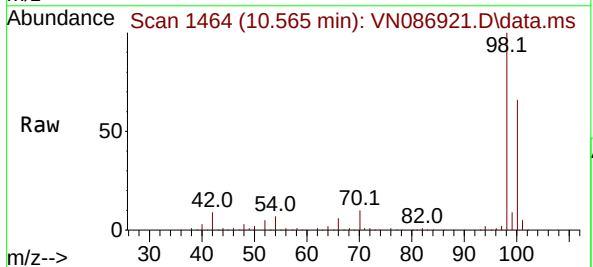
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

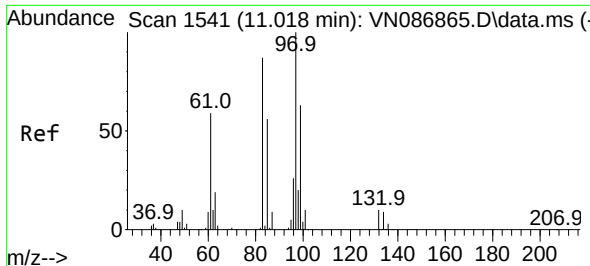
Tgt Ion:130 Resp: 6309047
Ion Ratio Lower Upper
130 100
95 100.4 0.0 196.2



#50
Toluene-d8
Concen: 51.295 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion: 98 Resp: 809307
Ion Ratio Lower Upper
98 100
100 66.5 53.4 80.0

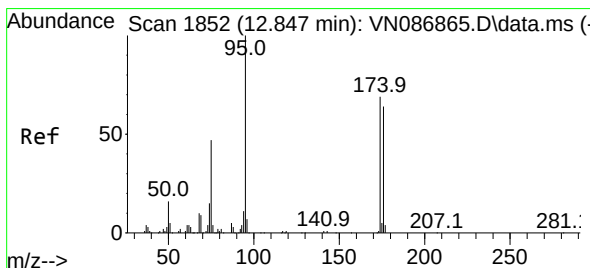
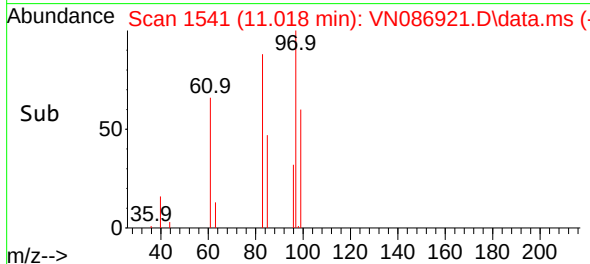
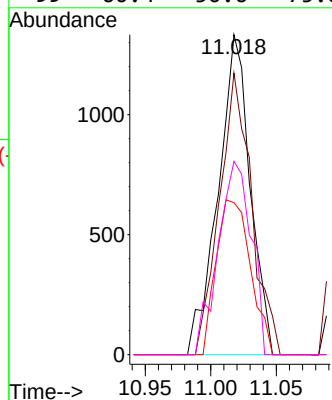
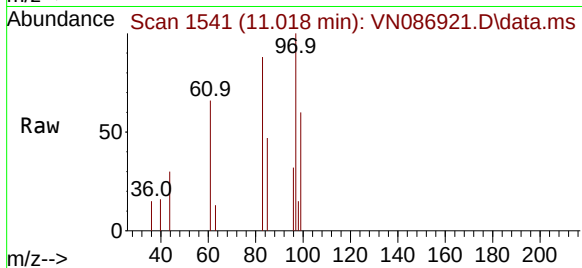




#55
 1,1,2-Trichloroethane
 Concen: 0.497 ug/l
 RT: 11.018 min Scan# 1541
 Delta R.T. -0.000 min
 Lab File: VN086921.D
 Acq: 10 Jun 2025 12:30

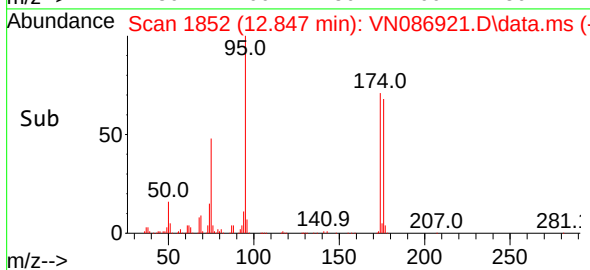
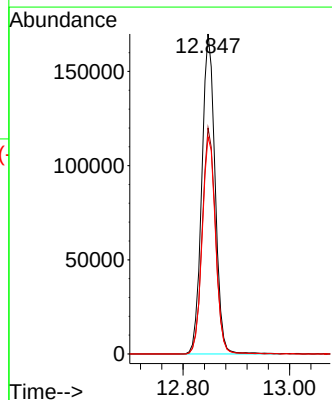
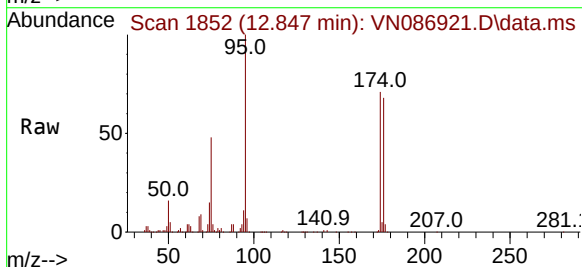
Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525

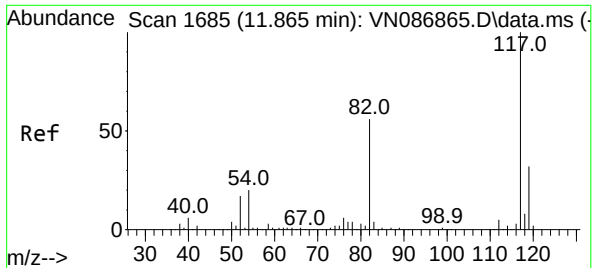
Tgt Ion:	97	Resp:	2269
Ion	Ratio	Lower	Upper
97	100		
83	88.0	69.7	104.5
85	47.5	45.1	67.7
99	60.4	50.6	75.8



#62
 4-Bromofluorobenzene
 Concen: 50.054 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.000 min
 Lab File: VN086921.D
 Acq: 10 Jun 2025 12:30

Tgt Ion:	95	Resp:	293403
Ion	Ratio	Lower	Upper
95	100		
174	70.2	0.0	141.8
176	68.2	0.0	132.6

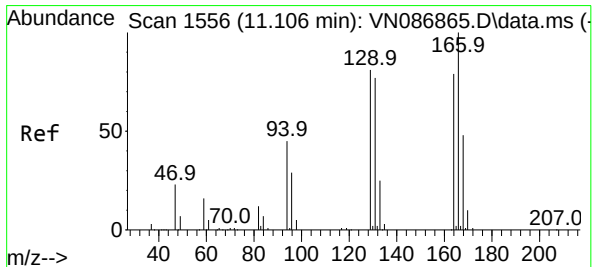
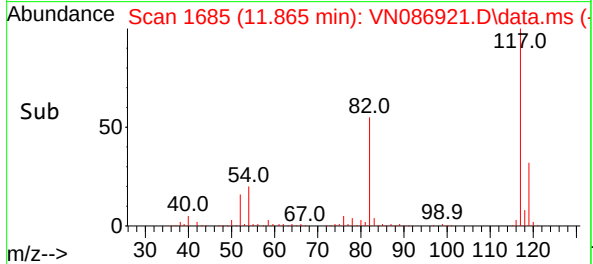
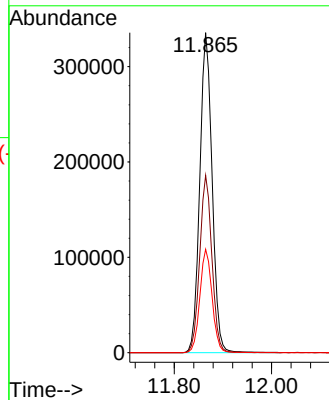
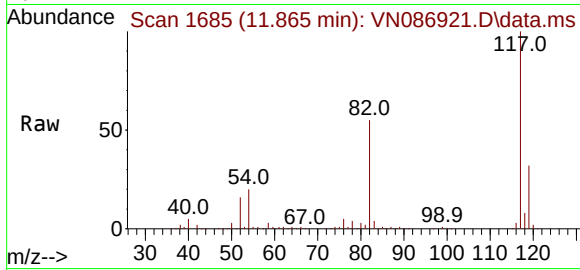




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

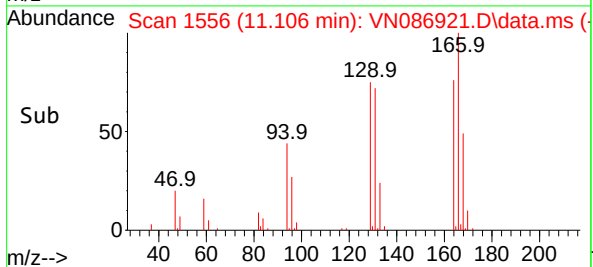
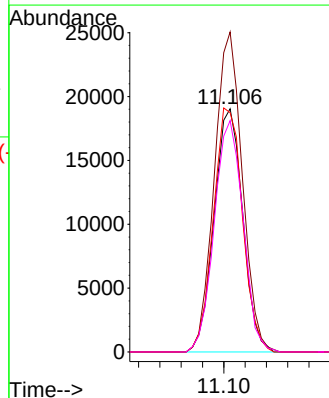
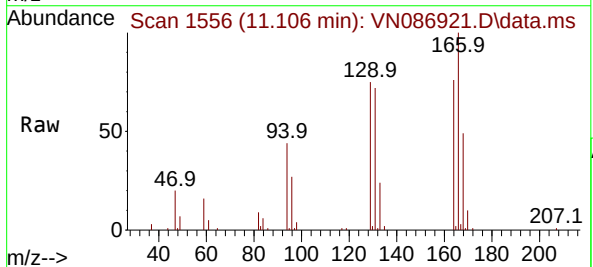
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525

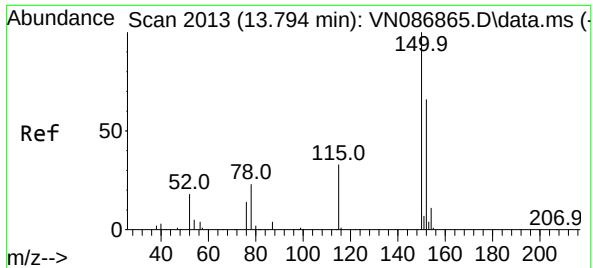
Tgt Ion:	117	Resp:	593044
Ion Ratio	Lower	Upper	
117	100		
82	55.4	44.6	67.0
119	32.3	25.5	38.3



#64
Tetrachloroethene
Concen: 9.443 ug/l
RT: 11.106 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VN086921.D
Acq: 10 Jun 2025 12:30

Tgt Ion:	164	Resp:	35442
Ion Ratio	Lower	Upper	
164	100		
166	131.5	101.8	152.8
129	98.4	83.0	124.4
131	95.1	78.2	117.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086921.D

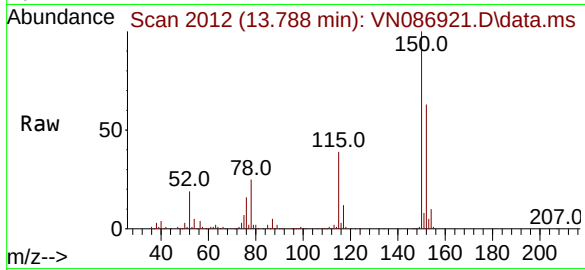
Acq: 10 Jun 2025 12:30

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525



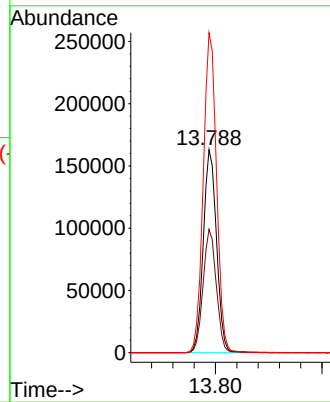
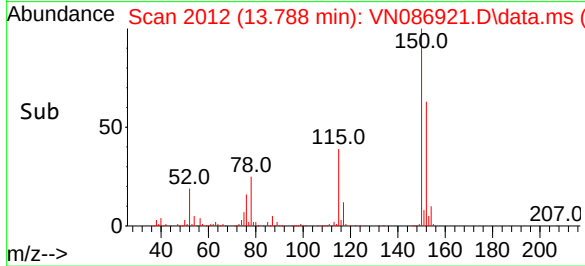
Tgt Ion:152 Resp: 281220

Ion Ratio Lower Upper

152 100

115 60.9 30.1 90.5

150 158.4 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086948.D
 Acq On : 11 Jun 2025 15:06
 Operator : JC\MD
 Sample : Q2250-01DL 20X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525DL

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 12 01:33:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

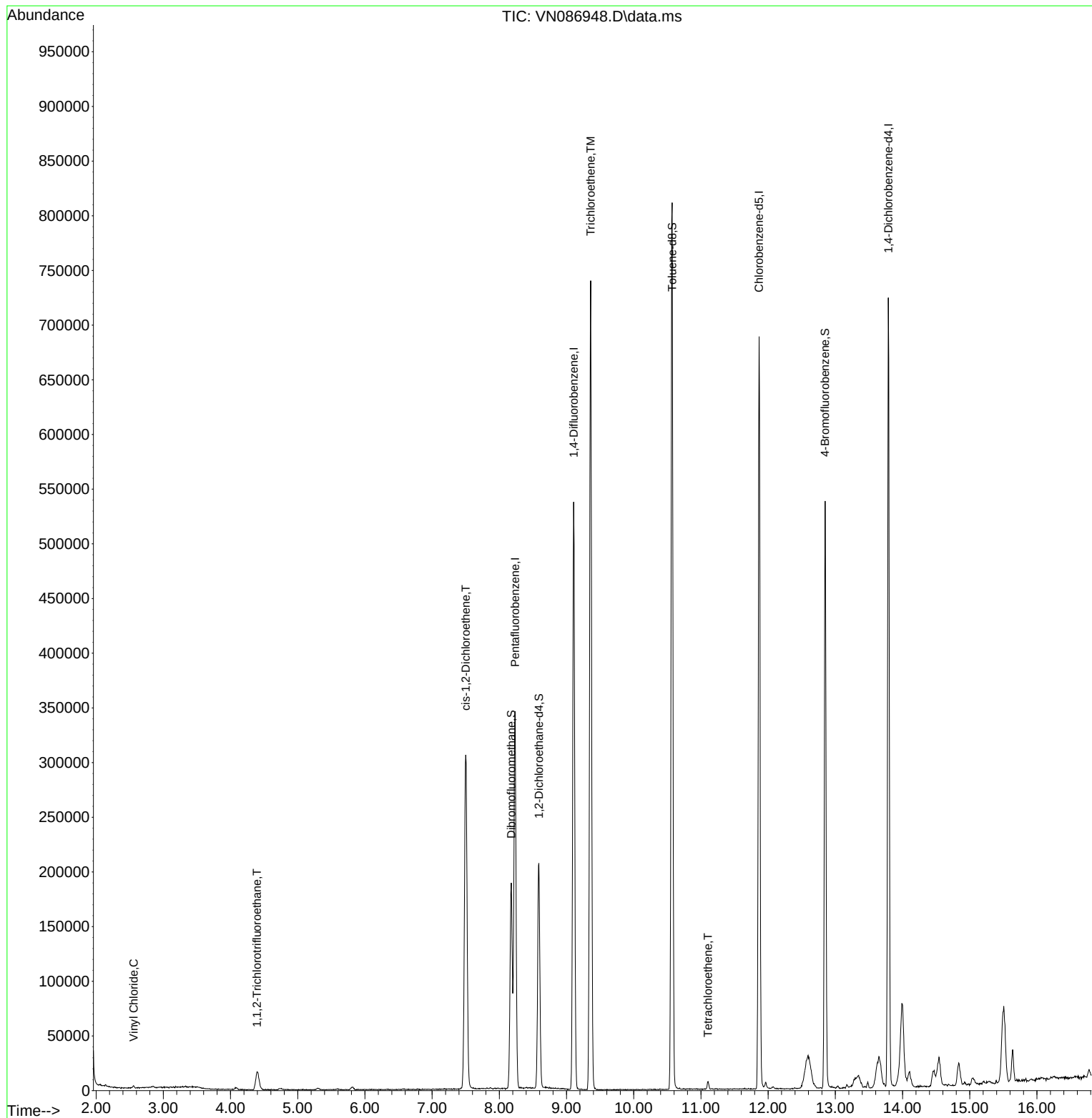
Internal Standards						
1) Pentafluorobenzene	8.236	168	272350	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	500042	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	434591	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	208257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	168991	46.344	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.680%
35) Dibromofluoromethane	8.177	113	143354	48.375	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.760%
50) Toluene-d8	10.571	98	599641	51.115	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.240%
62) 4-Bromofluorobenzene	12.847	95	214176	49.140	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.280%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.559	62	1187	0.328	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.395	101	13861	4.668	ug/l	97
27) cis-1,2-Dichloroethene	7.500	96	208706	51.744	ug/l	89
44) Trichloroethene	9.359	130	290594	84.873	ug/l	98
64) Tetrachloroethene	11.106	164	1673	0.608	ug/l #	78

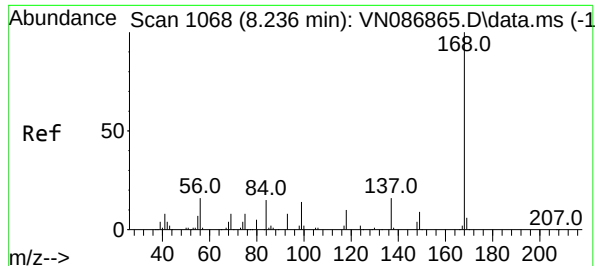
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086948.D
Acq On : 11 Jun 2025 15:06
Operator : JC\MD
Sample : Q2250-01DL 20X
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

Quant Time: Jun 12 01:33:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

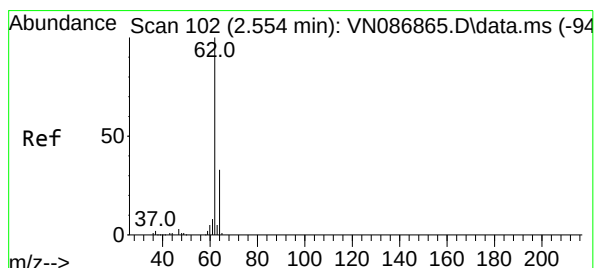
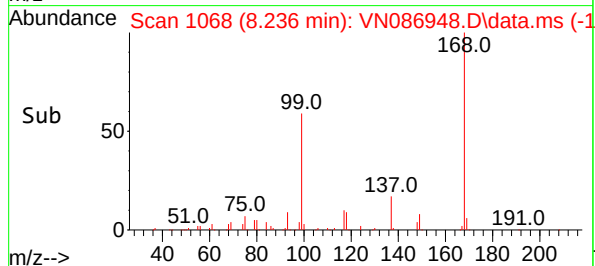
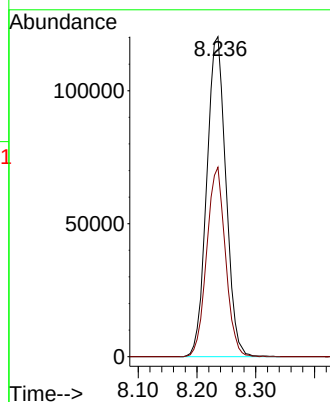
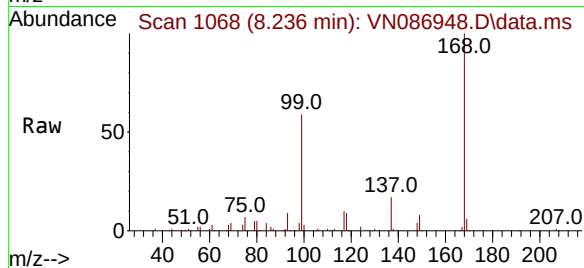




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.236 min Scan# 1068
Delta R.T. -0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

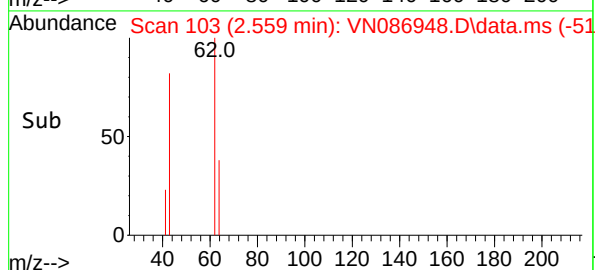
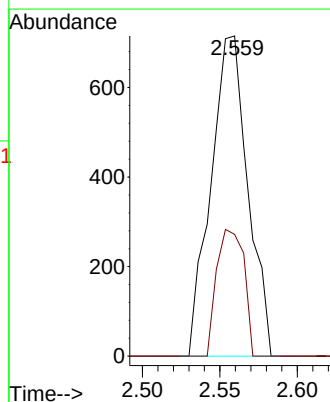
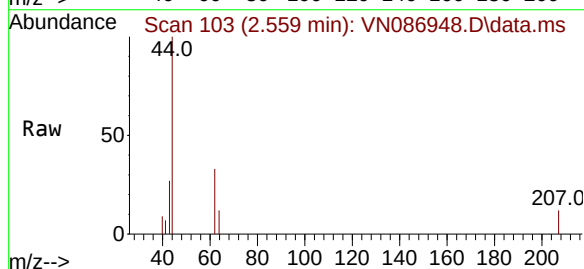
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

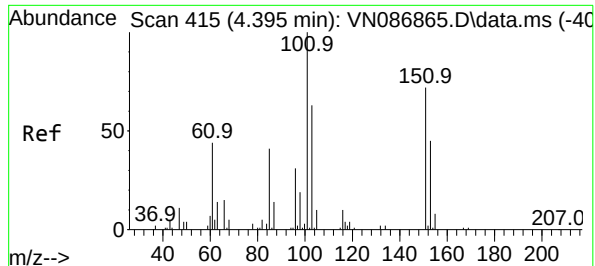
Tgt Ion:168 Resp: 272350
Ion Ratio Lower Upper
168 100
99 59.2 49.1 73.7



#4
Vinyl Chloride
Concen: 0.328 ug/l
RT: 2.559 min Scan# 103
Delta R.T. 0.006 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

Tgt Ion: 62 Resp: 1187
Ion Ratio Lower Upper
62 100
64 38.0 26.0 39.0

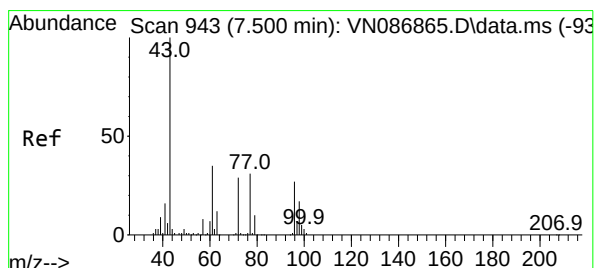
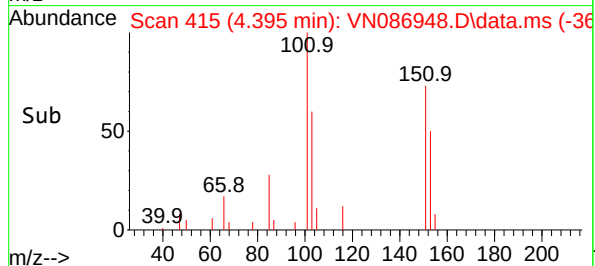
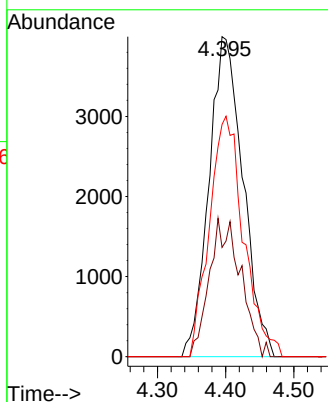
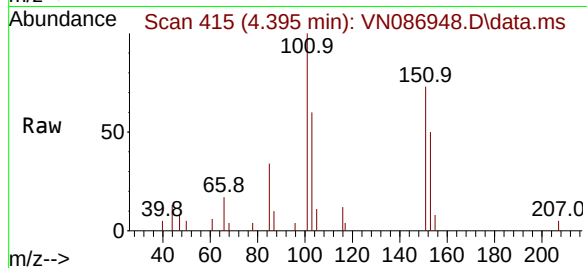




#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.668 ug/l
RT: 4.395 min Scan# 415
Delta R.T. -0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

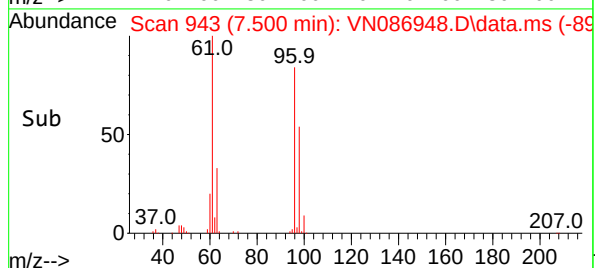
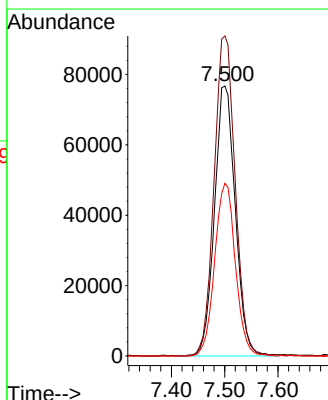
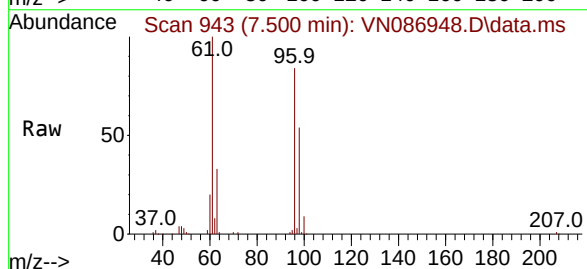
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

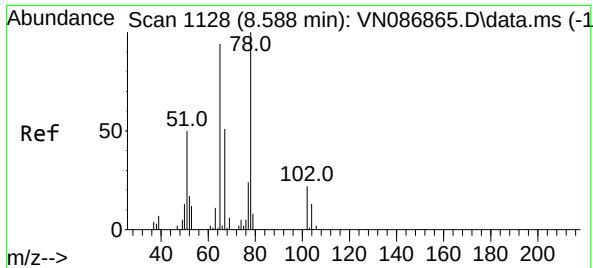
Tgt Ion:	101	Resp:	13861
Ion	Ratio	Lower	Upper
101	100		
85	39.8	33.8	50.8
151	75.5	58.7	88.1



#27
cis-1,2-Dichloroethene
Concen: 51.744 ug/l
RT: 7.500 min Scan# 943
Delta R.T. 0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

Tgt Ion:	96	Resp:	208706
Ion	Ratio	Lower	Upper
96	100		
61	120.1	0.0	278.0
98	63.6	0.0	128.2





#33

1,2-Dichloroethane-d4

Concen: 46.344 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

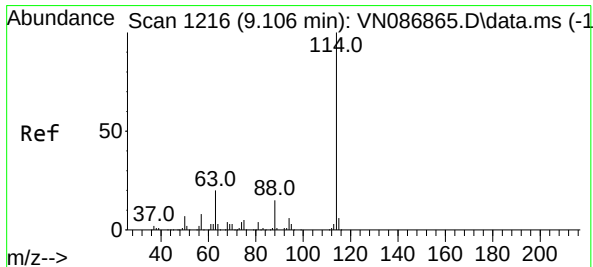
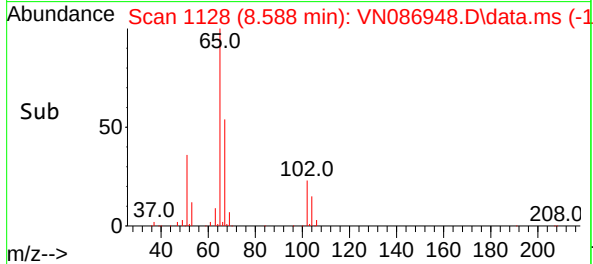
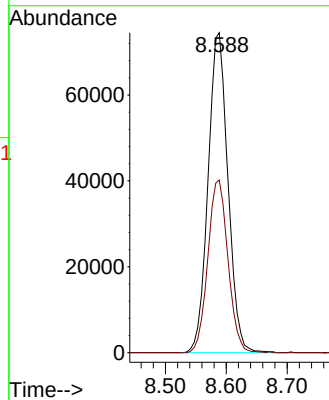
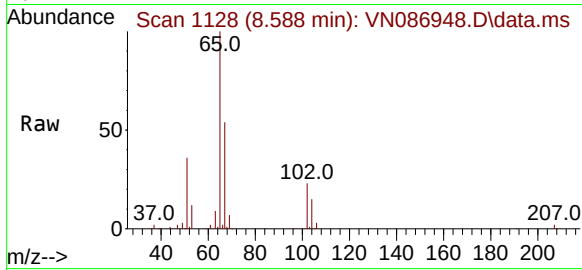
MW-11A-13.5-060525DL

Tgt Ion: 65 Resp: 168991

Ion Ratio Lower Upper

65 100

67 54.6 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

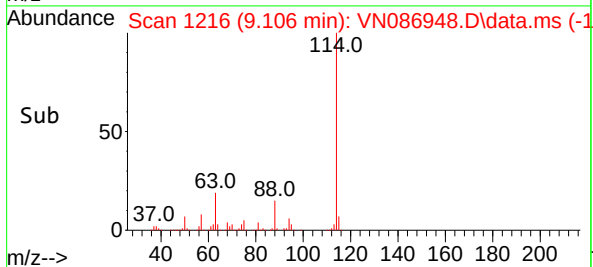
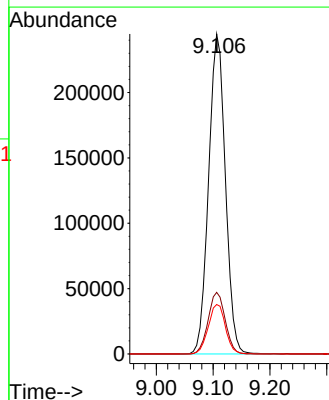
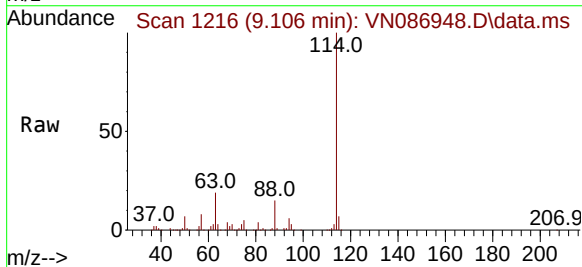
Tgt Ion: 114 Resp: 500042

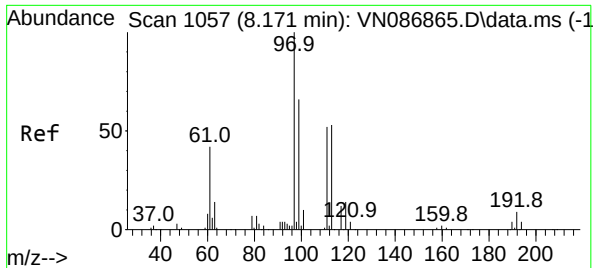
Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

88 15.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.375 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL

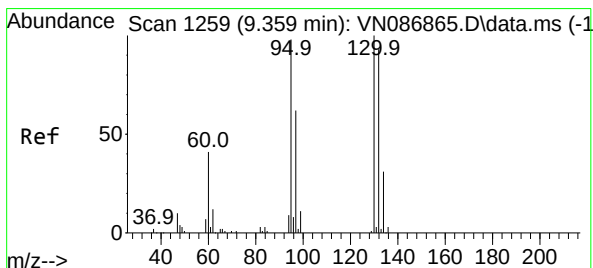
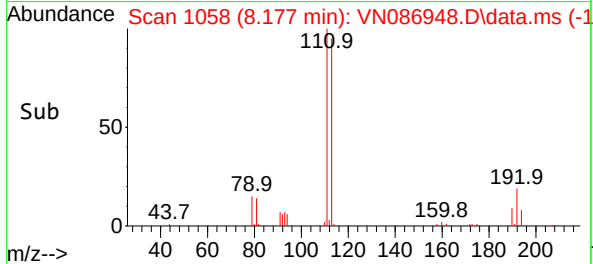
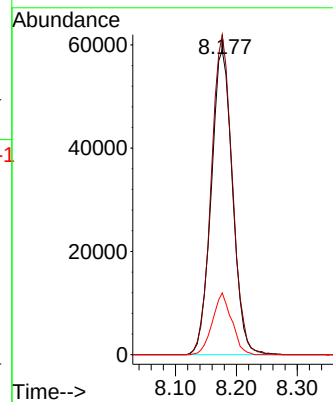
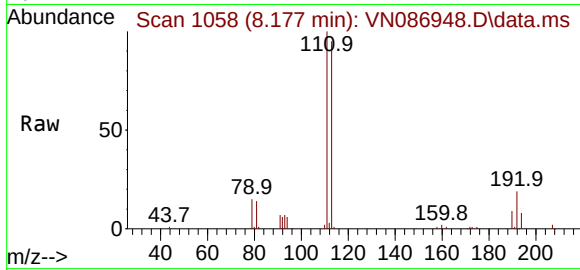
Tgt Ion:113 Resp: 143354

Ion Ratio Lower Upper

113 100

111 103.8 84.2 126.2

192 18.3 14.2 21.4



#44

Trichloroethene

Concen: 84.873 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. 0.000 min

Lab File: VN086948.D

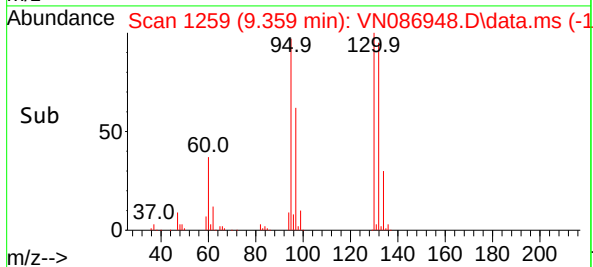
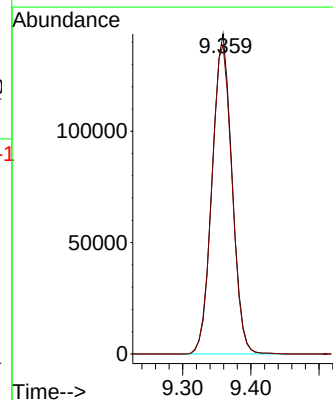
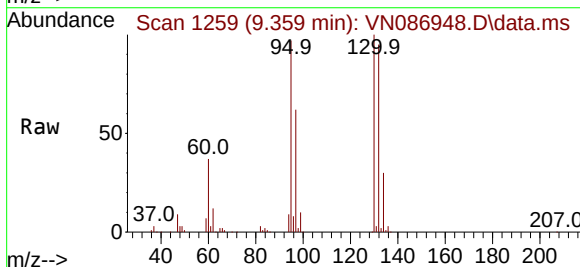
Acq: 11 Jun 2025 15:06

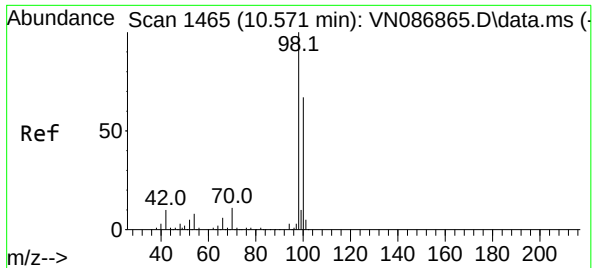
Tgt Ion:130 Resp: 290594

Ion Ratio Lower Upper

130 100

95 96.5 0.0 196.2

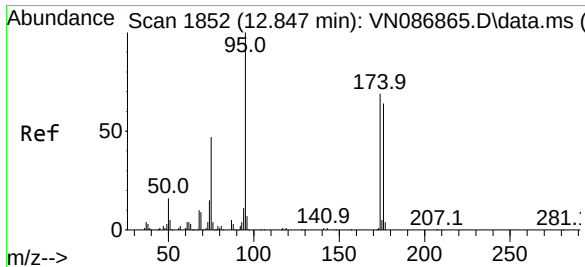
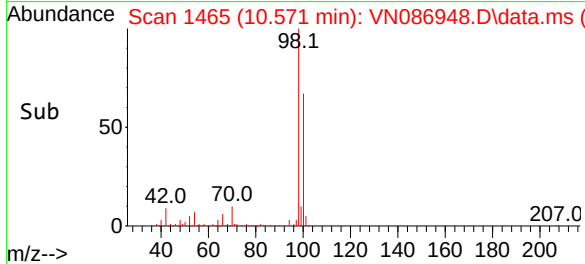
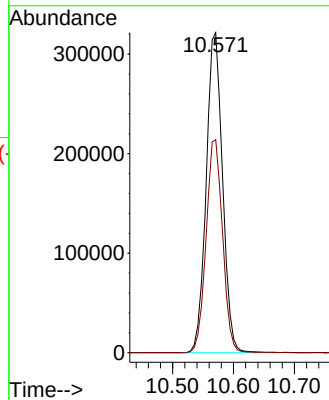
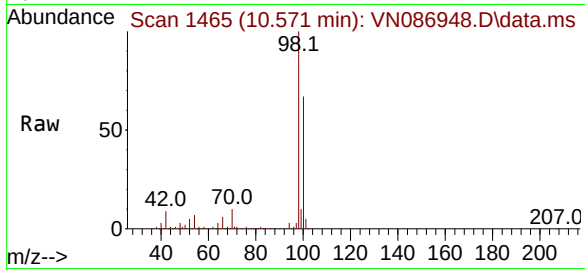




#50
Toluene-d8
Concen: 51.115 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. 0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

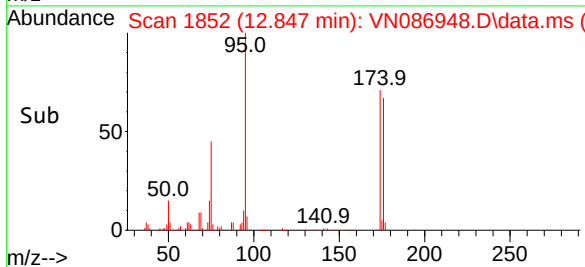
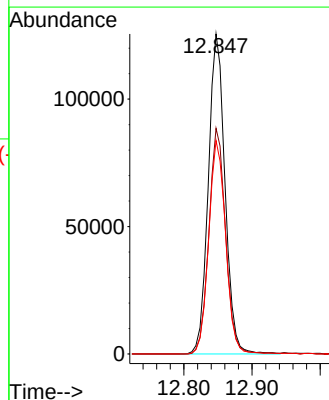
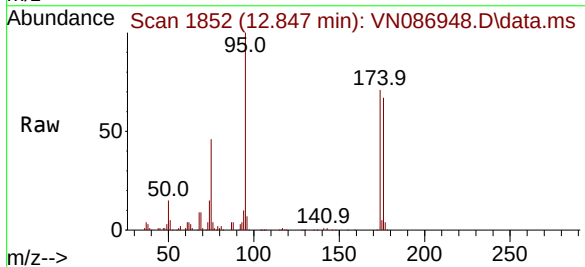
Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525DL

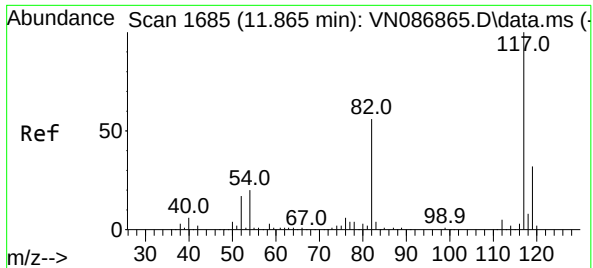
Tgt Ion: 98 Resp: 599641
Ion Ratio Lower Upper
98 100
100 67.1 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.140 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086948.D
Acq: 11 Jun 2025 15:06

Tgt Ion: 95 Resp: 214176
Ion Ratio Lower Upper
95 100
174 70.6 0.0 141.8
176 67.6 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL

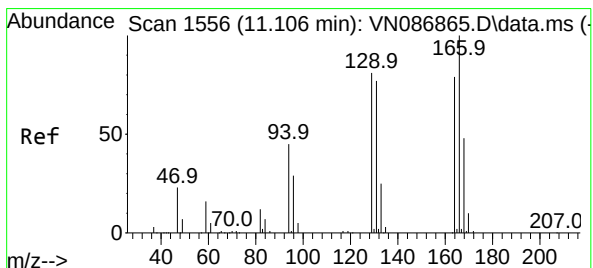
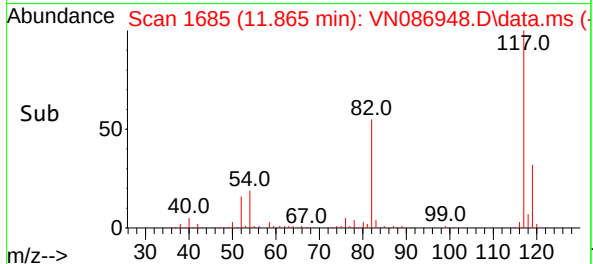
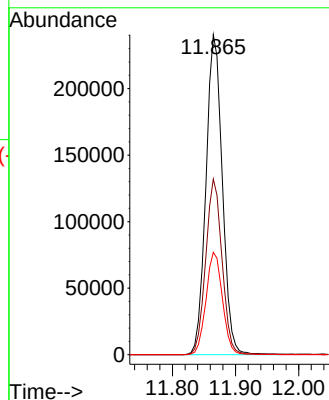
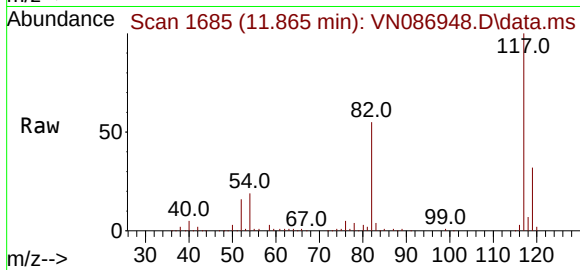
Tgt Ion:117 Resp: 434591

Ion Ratio Lower Upper

117 100

82 54.9 44.6 67.0

119 32.0 25.5 38.3



#64

Tetrachloroethene

Concen: 0.608 ug/l

RT: 11.106 min Scan# 1556

Delta R.T. 0.000 min

Lab File: VN086948.D

Acq: 11 Jun 2025 15:06

Tgt Ion:164 Resp: 1673

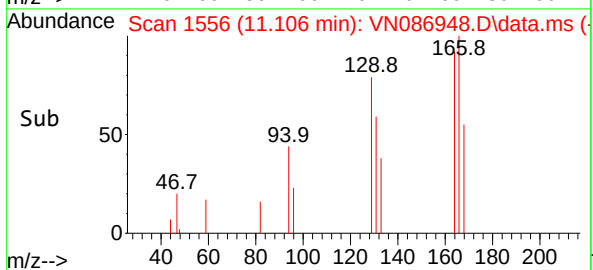
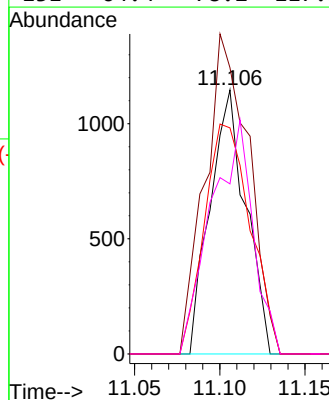
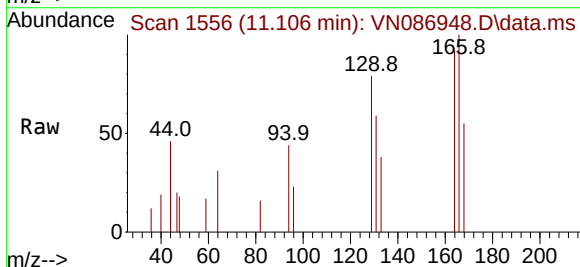
Ion Ratio Lower Upper

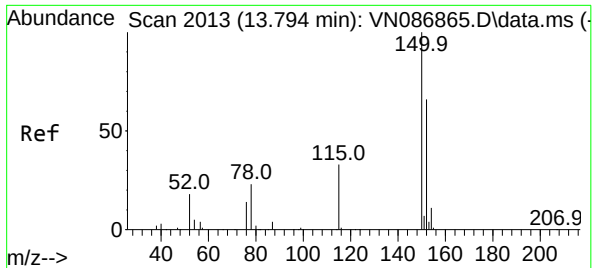
164 100

166 108.4 101.8 152.8

129 85.6 83.0 124.4

131 64.4 78.2 117.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086948.D

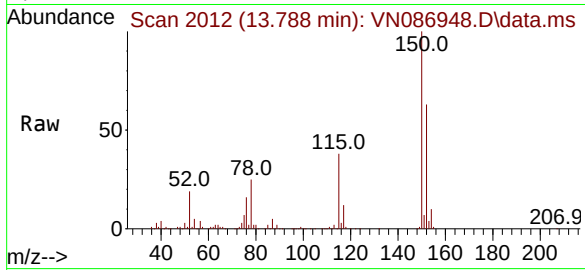
Acq: 11 Jun 2025 15:06

Instrument :

MSVOA_N

ClientSampleId :

MW-11A-13.5-060525DL



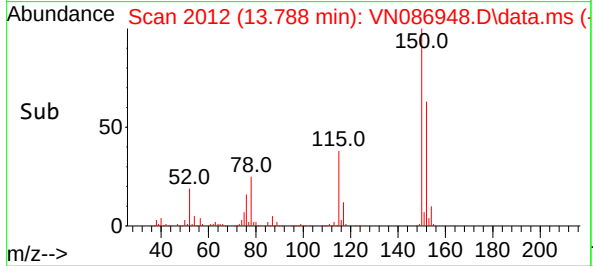
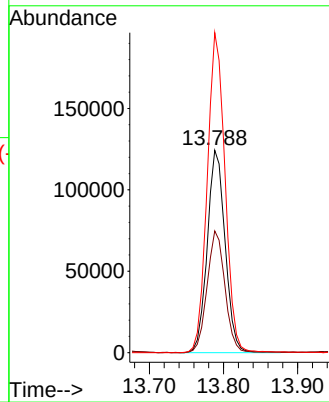
Tgt Ion:152 Resp: 208257

Ion Ratio Lower Upper

152 100

115 60.5 30.1 90.5

150 157.5 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086919.D
Acq On : 10 Jun 2025 11:47
Operator : JC\MD
Sample : Q2250-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 11 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

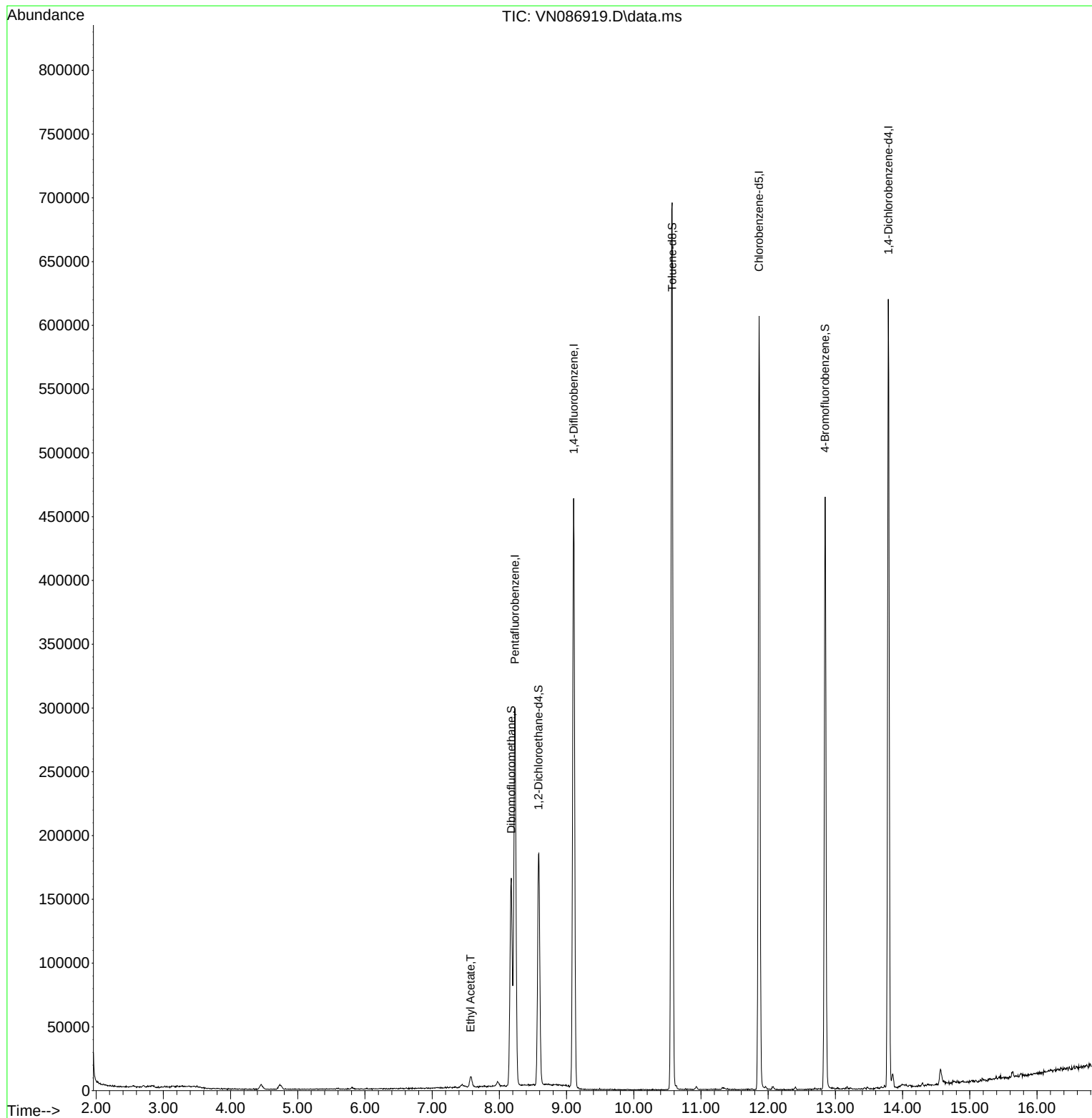
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	232754	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	433385	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	381245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	180063	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	149250	47.893	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	95.780%
35) Dibromofluoromethane	8.177	113	125229	48.759	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.520%
50) Toluene-d8	10.571	98	523905	51.528	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.060%
62) 4-Bromofluorobenzene	12.847	95	184714	48.899	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.800%
Target Compounds						
37) Ethyl Acetate	7.571	43	12844	2.636	ug/l	98

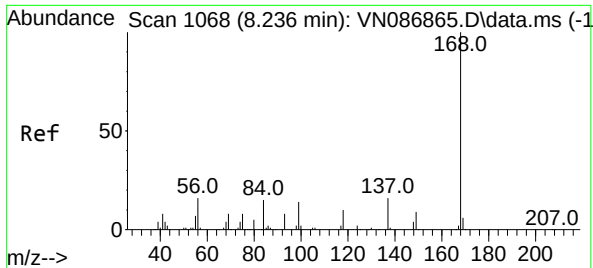
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086919.D
Acq On : 10 Jun 2025 11:47
Operator : JC\MD
Sample : Q2250-05
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

Quant Time: Jun 11 01:51:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

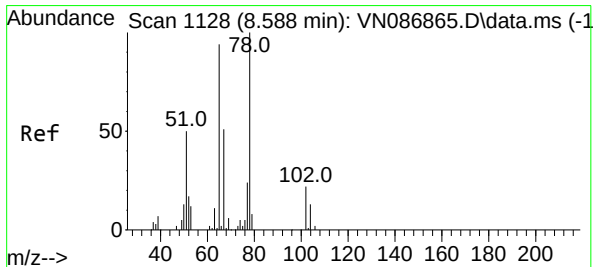
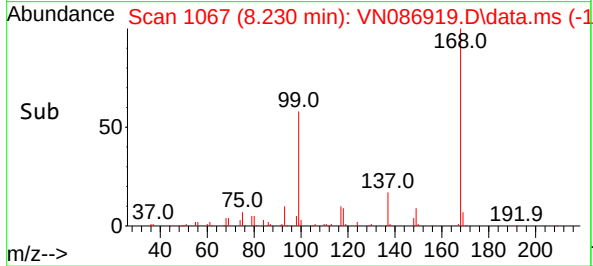
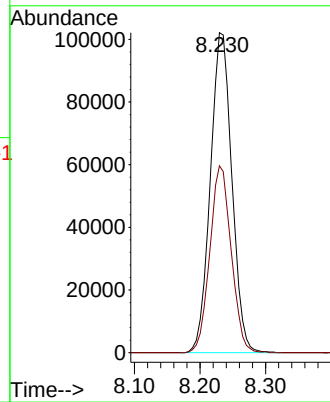
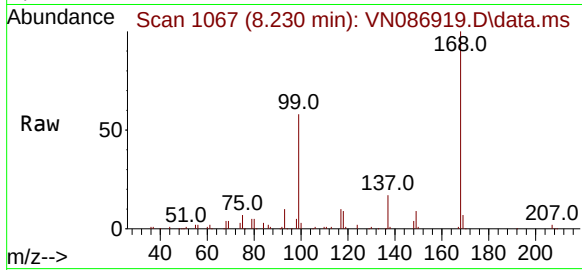




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

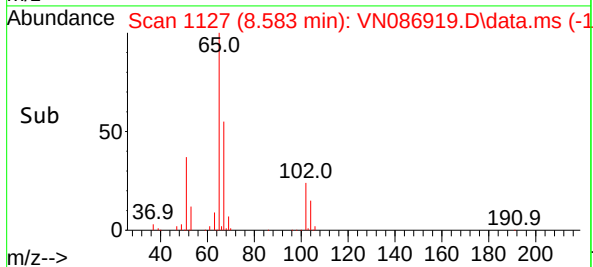
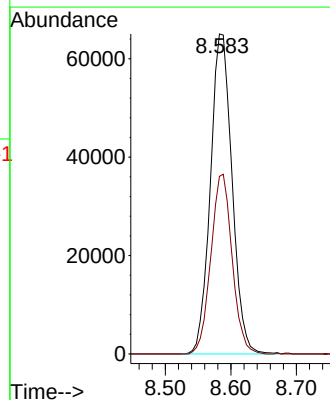
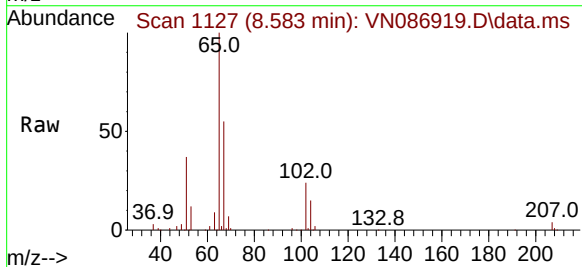
Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

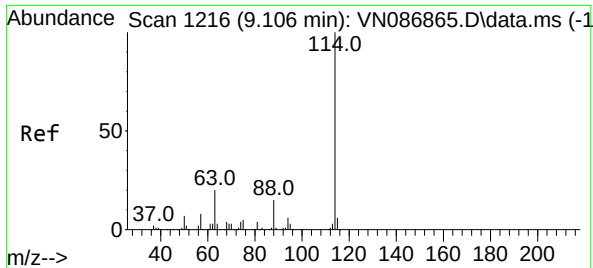
Tgt Ion:168 Resp: 232754
Ion Ratio Lower Upper
168 100
99 58.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 47.893 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

Tgt Ion: 65 Resp: 149250
Ion Ratio Lower Upper
65 100
67 55.1 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

ClientSampleId :

EB02-060525

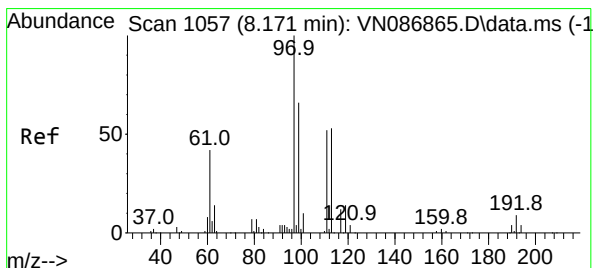
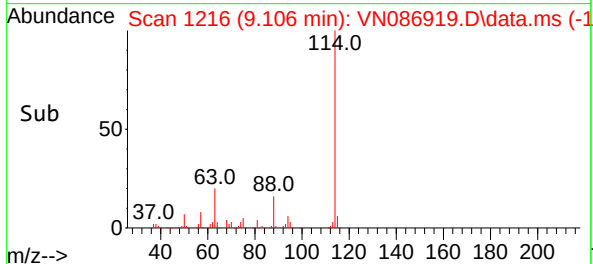
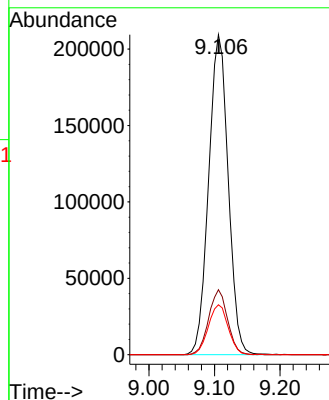
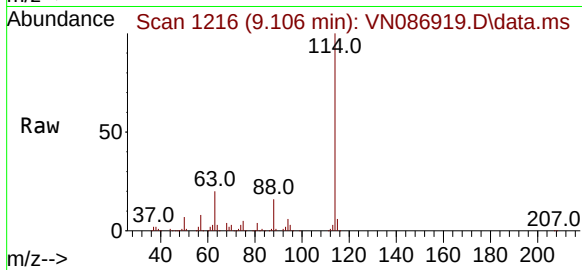
Tgt Ion:114 Resp: 433385

Ion Ratio Lower Upper

114 100

63 20.3 0.0 39.6

88 15.6 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.759 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

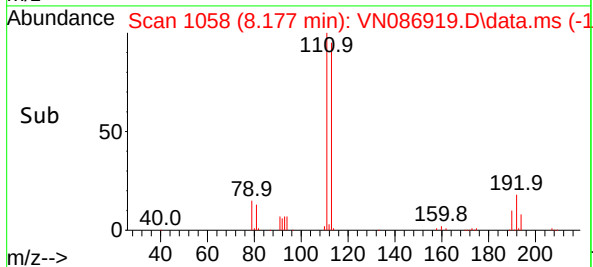
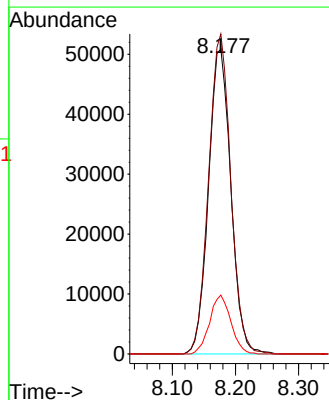
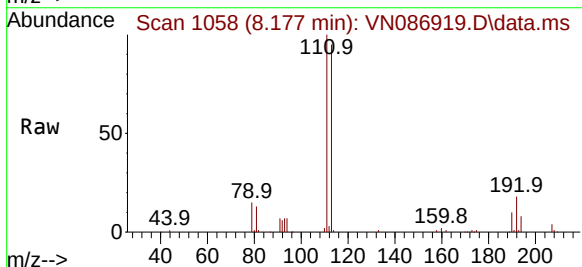
Tgt Ion:113 Resp: 125229

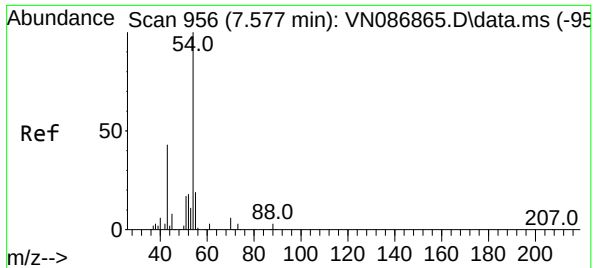
Ion Ratio Lower Upper

113 100

111 103.7 84.2 126.2

192 18.4 14.2 21.4





#37

Ethyl Acetate

Concen: 2.636 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.006 min

Lab File: VN086919.D

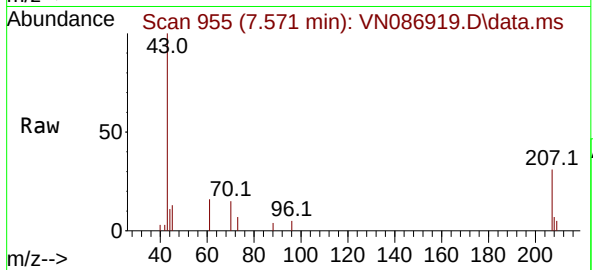
Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

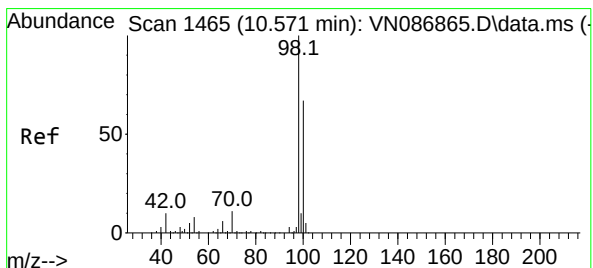
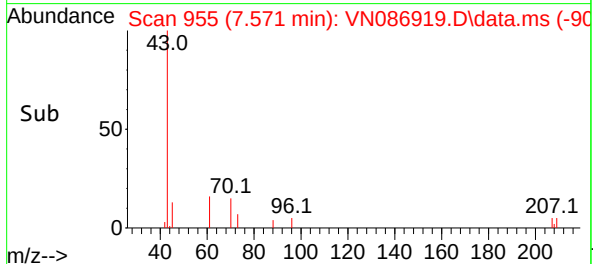
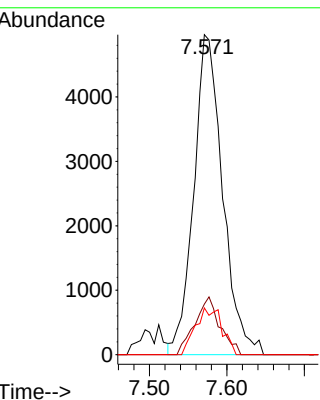
ClientSampleId :

EB02-060525



Tgt Ion: 43 Resp: 12844

Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.1	18.1
70	13.4	9.8	14.6



#50

Toluene-d8

Concen: 51.528 ug/l

RT: 10.571 min Scan# 1465

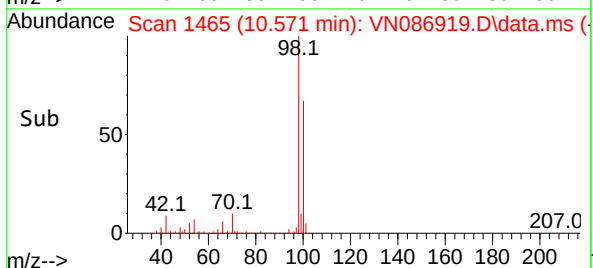
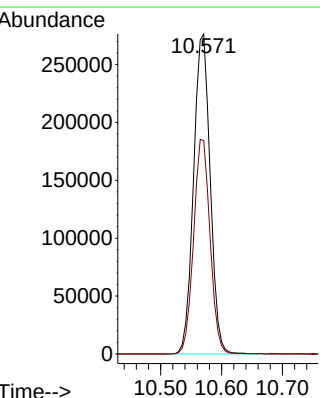
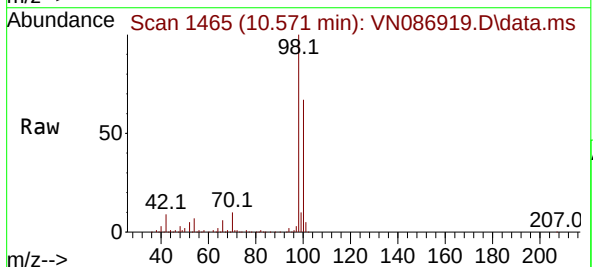
Delta R.T. -0.000 min

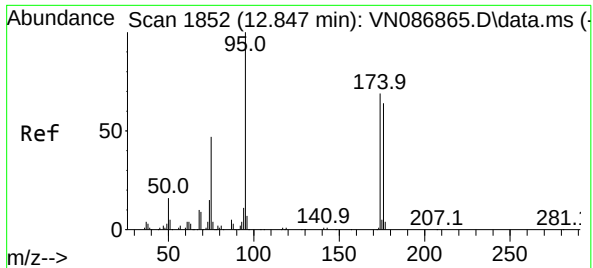
Lab File: VN086919.D

Acq: 10 Jun 2025 11:47

Tgt Ion: 98 Resp: 523905

Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.4	80.0

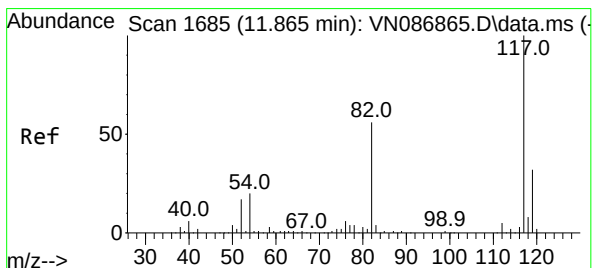
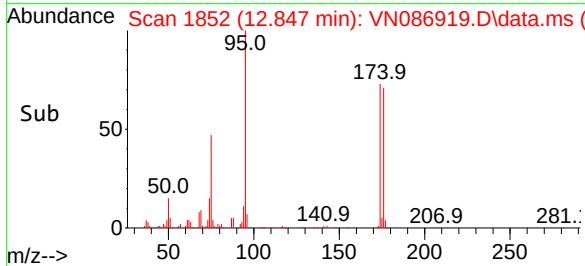
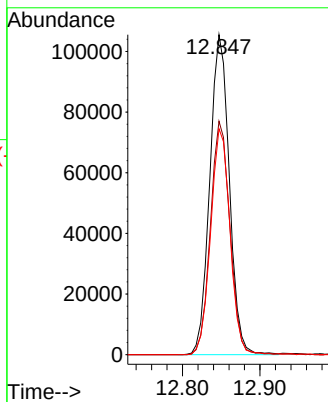
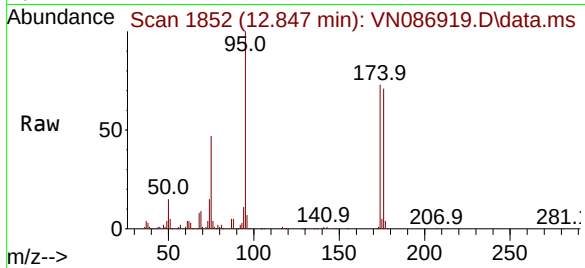




#62
4-Bromofluorobenzene
Concen: 48.899 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

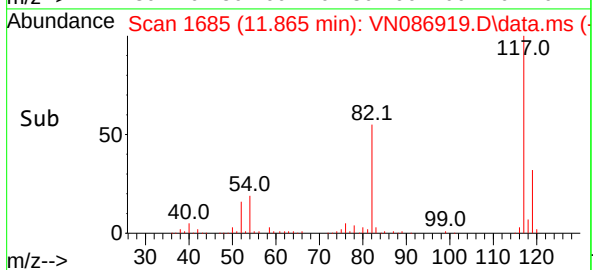
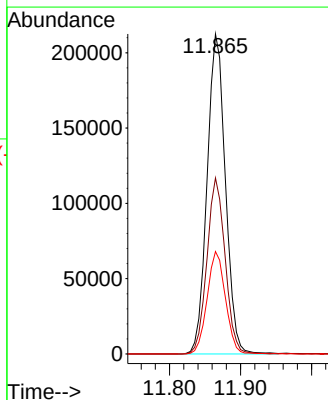
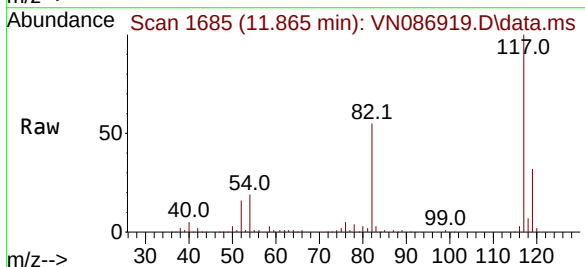
Instrument :
MSVOA_N
ClientSampleId :
EB02-060525

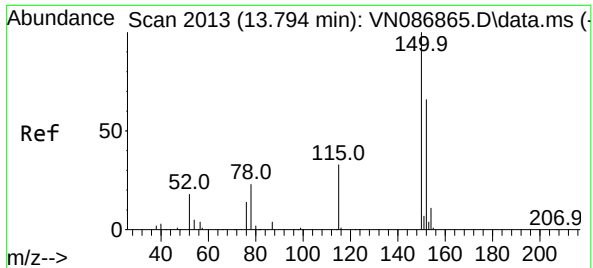
Tgt Ion: 95 Resp: 184714
Ion Ratio Lower Upper
95 100
174 73.1 0.0 141.8
176 70.0 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086919.D
Acq: 10 Jun 2025 11:47

Tgt Ion: 117 Resp: 381245
Ion Ratio Lower Upper
117 100
82 55.0 44.6 67.0
119 32.0 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. -0.006 min

Lab File: VN086919.D

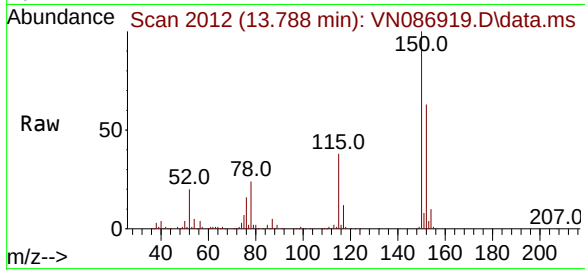
Acq: 10 Jun 2025 11:47

Instrument :

MSVOA_N

ClientSampleId :

EB02-060525



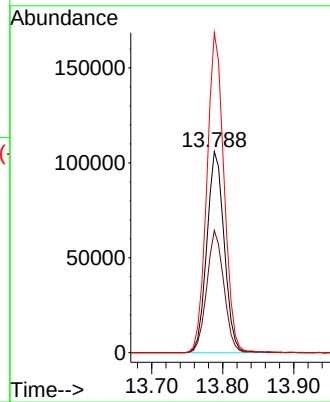
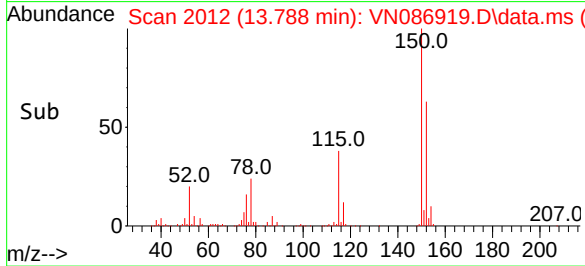
Tgt Ion:152 Resp: 180063

Ion Ratio Lower Upper

152 100

115 60.2 30.1 90.5

150 157.3 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086920.D
Acq On : 10 Jun 2025 12:08
Operator : JC\MD
Sample : Q2250-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

A
B
C
D
E
F
G
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J

Quant Time: Jun 11 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	350151	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	648560	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	563762	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	266280	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	221297	47.204	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	94.400%
35) Dibromofluoromethane	8.177	113	187512	48.787	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.580%
50) Toluene-d8	10.565	98	777698	51.112	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.220%
62) 4-Bromofluorobenzene	12.847	95	277459	49.082	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.160%

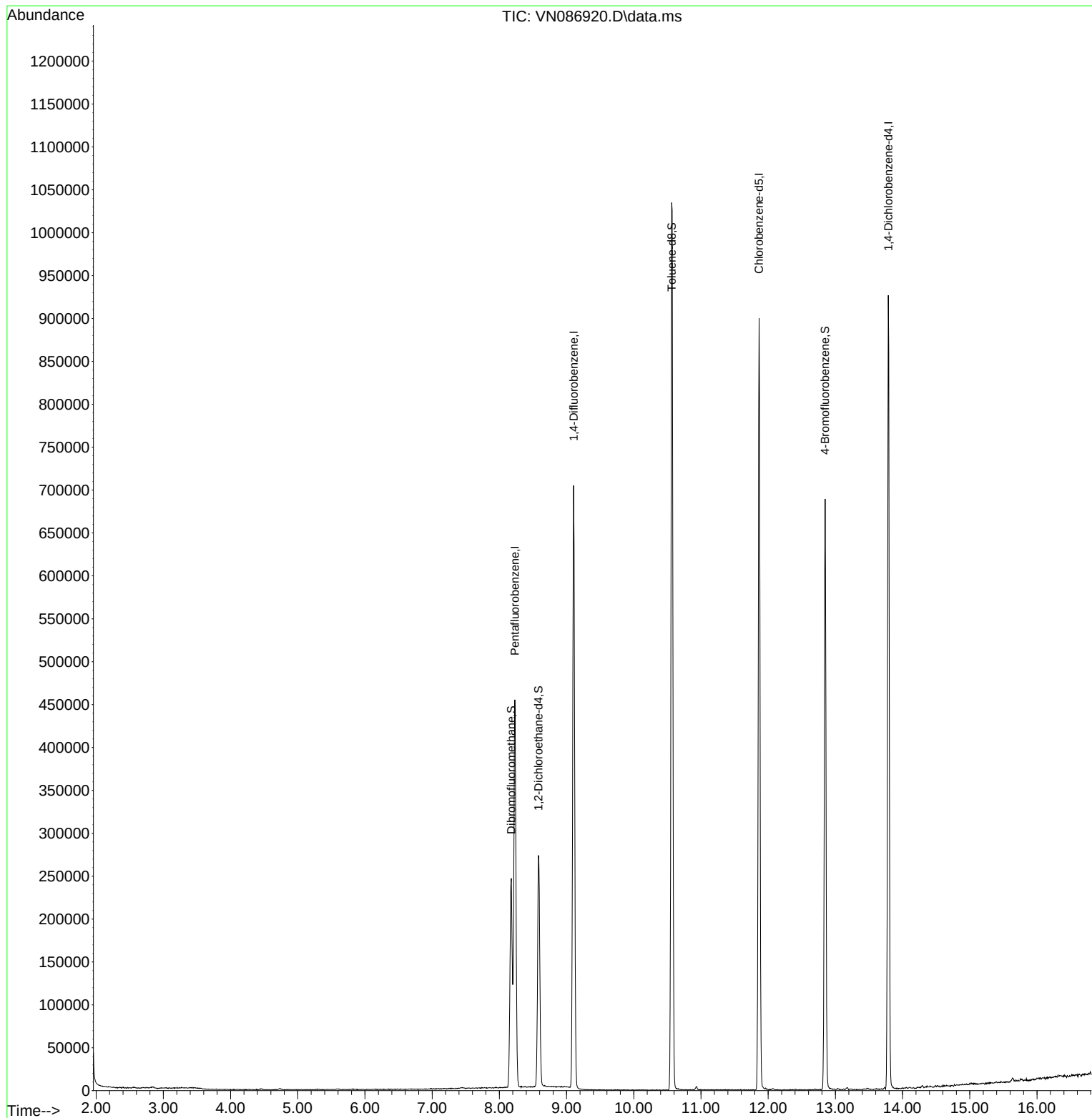
Target Compounds	Qvalue

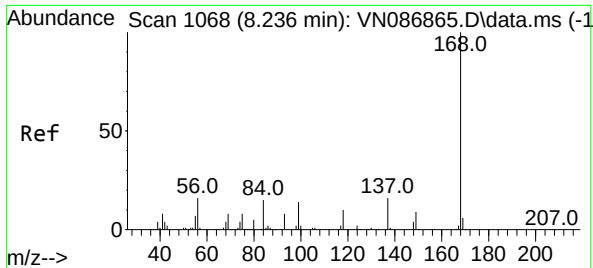
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086920.D
Acq On : 10 Jun 2025 12:08
Operator : JC\MD
Sample : Q2250-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

Quant Time: Jun 11 01:51:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

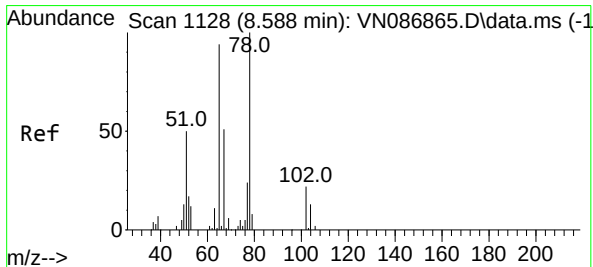
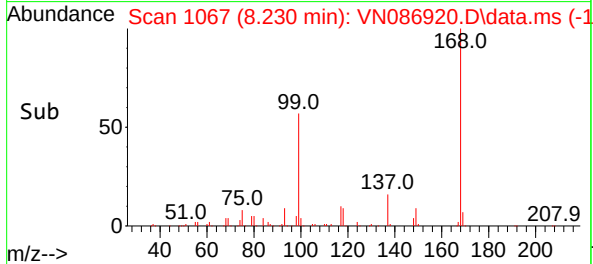
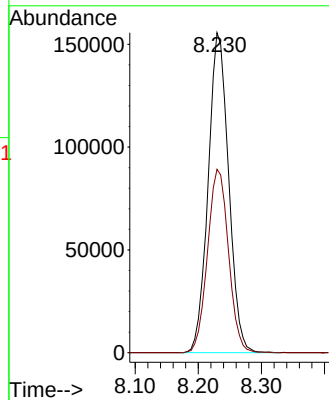
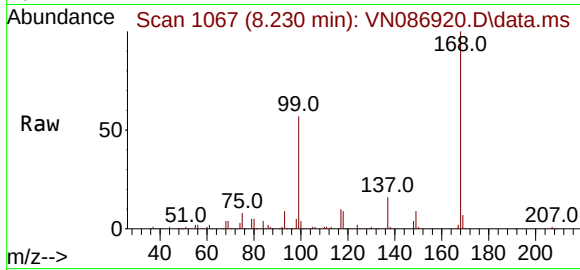




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

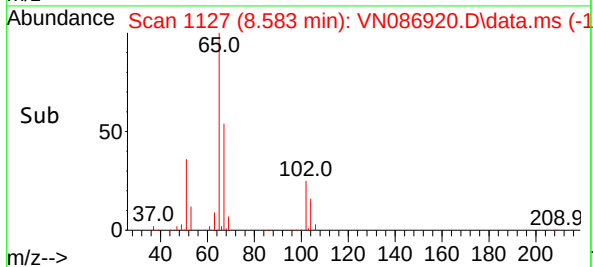
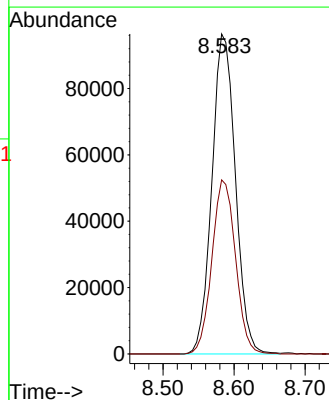
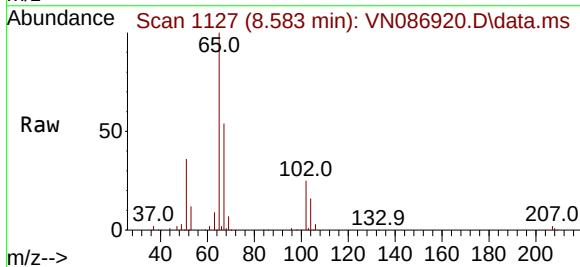
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

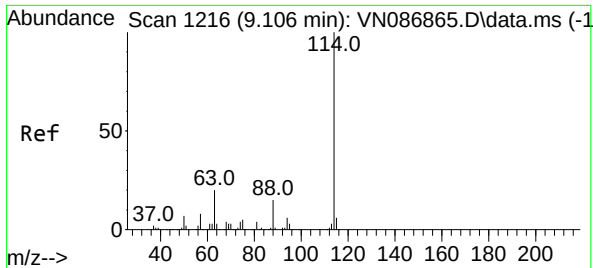
Tgt Ion:168 Resp: 350151
Ion Ratio Lower Upper
168 100
99 57.3 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 47.204 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion: 65 Resp: 221297
Ion Ratio Lower Upper
65 100
67 54.6 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086920.D

Acq: 10 Jun 2025 12:08

Instrument :

MSVOA_N

ClientSampleId :

TB-01-060525

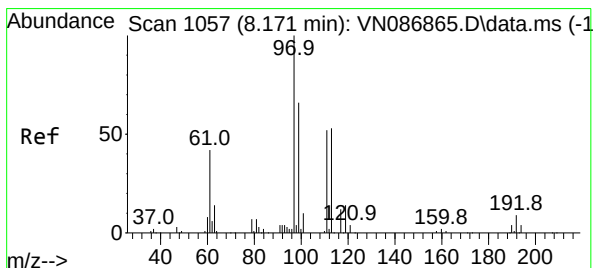
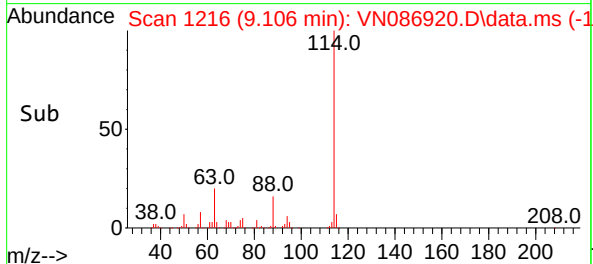
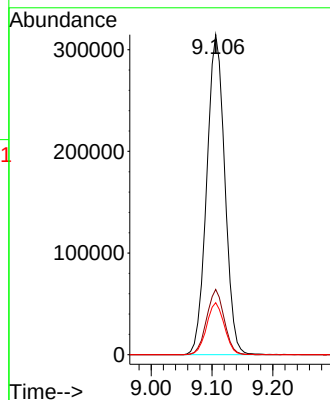
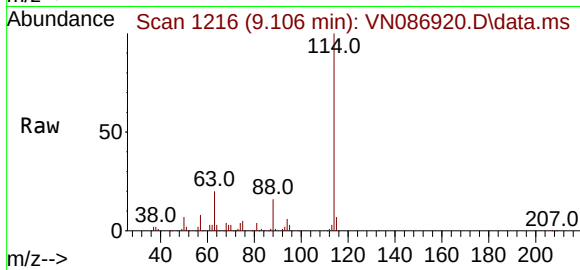
Tgt Ion:114 Resp: 648560

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 16.2 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.787 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086920.D

Acq: 10 Jun 2025 12:08

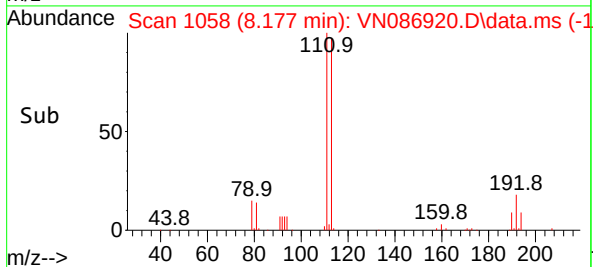
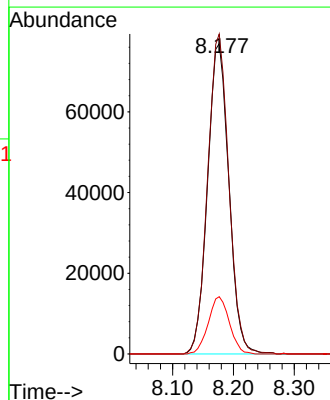
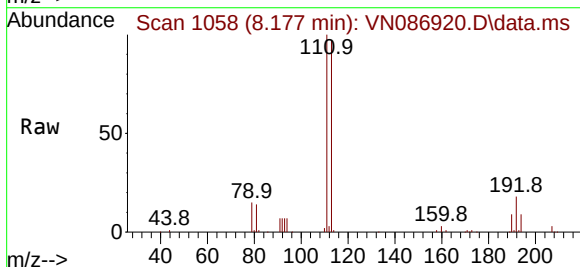
Tgt Ion:113 Resp: 187512

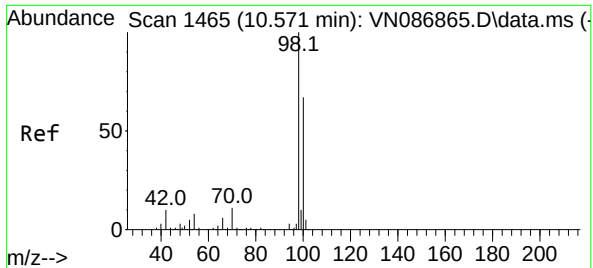
Ion Ratio Lower Upper

113 100

111 102.2 84.2 126.2

192 18.2 14.2 21.4

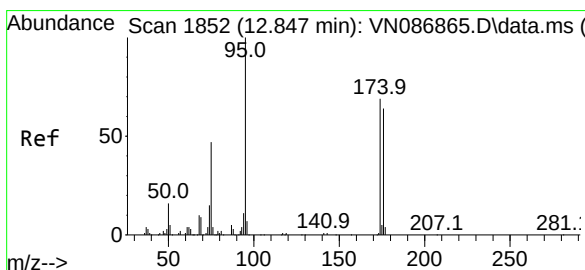
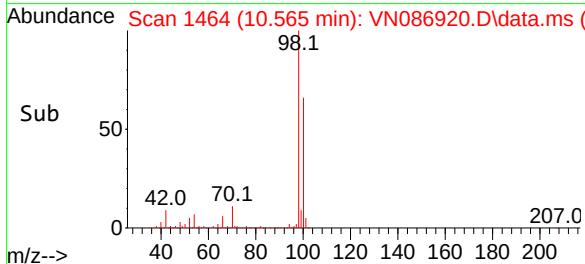
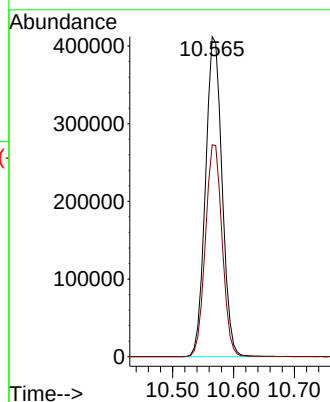
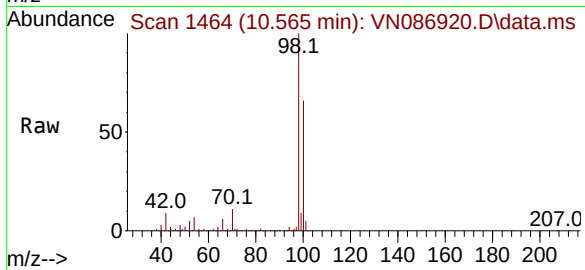




#50
Toluene-d8
Concen: 51.112 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

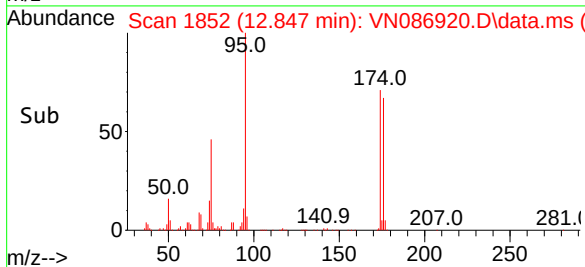
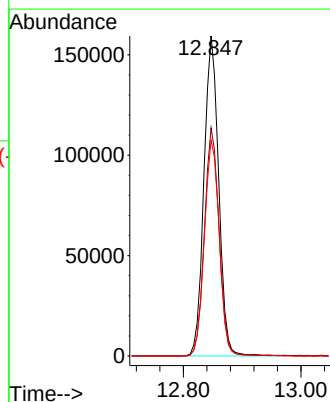
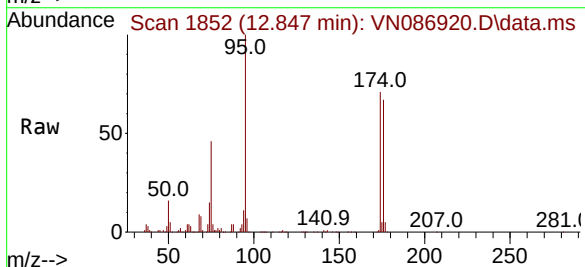
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

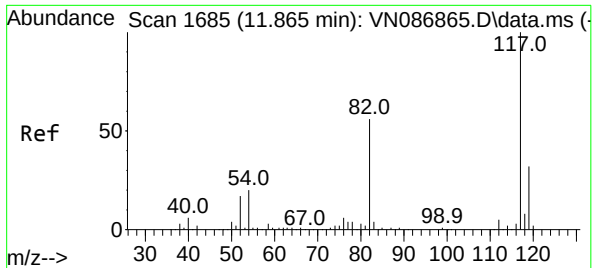
Tgt Ion: 98 Resp: 777698
Ion Ratio Lower Upper
98 100
100 66.9 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.082 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion: 95 Resp: 277459
Ion Ratio Lower Upper
95 100
174 70.9 0.0 141.8
176 67.9 0.0 132.6

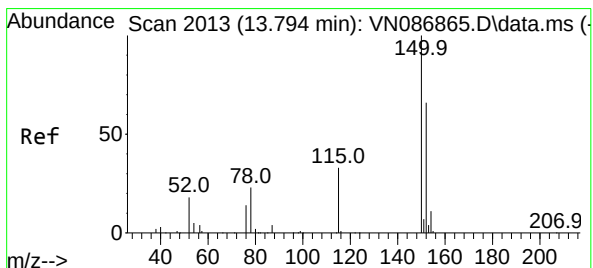
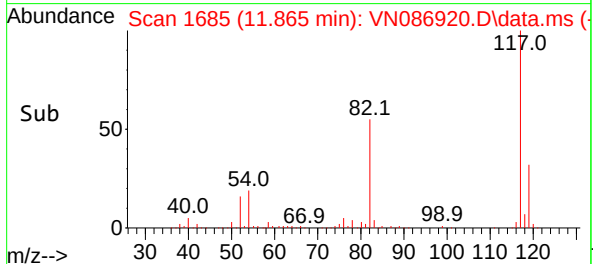
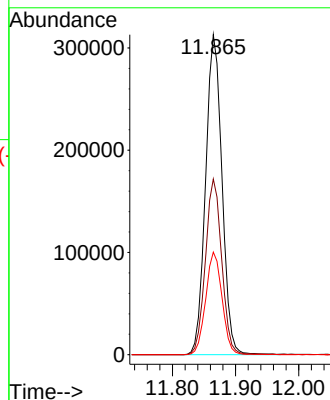
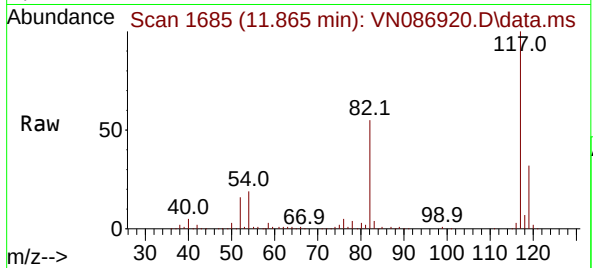




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

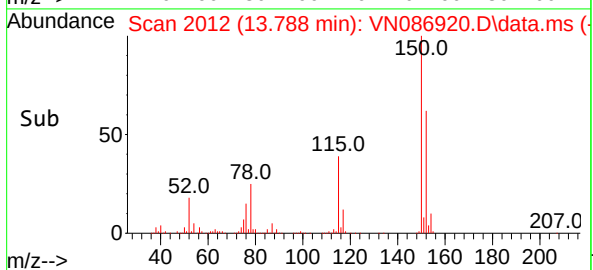
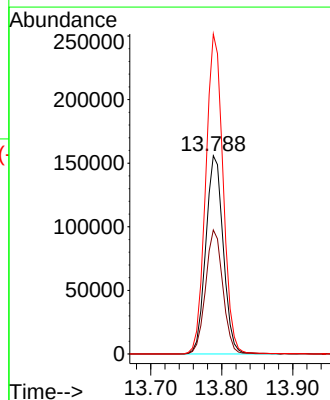
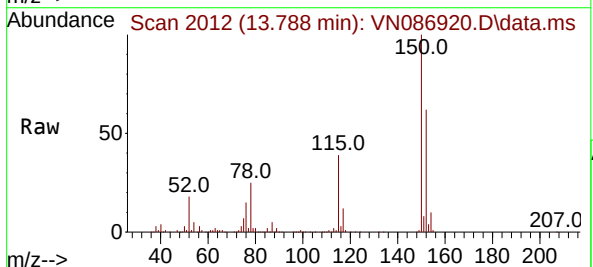
Instrument :
MSVOA_N
ClientSampleId :
TB-01-060525

Tgt Ion:117 Resp: 563762
Ion Ratio Lower Upper
117 100
82 54.9 44.6 67.0
119 32.1 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086920.D
Acq: 10 Jun 2025 12:08

Tgt Ion:152 Resp: 266280
Ion Ratio Lower Upper
152 100
115 61.7 30.1 90.5
150 160.6 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086915.D
Acq On : 10 Jun 2025 10:09
Operator : JC\MD
Sample : VN0610WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

A
B
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Quant Time: Jun 11 01:48:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	241251	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	440901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	386425	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	183380	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	150863	46.706	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.420%
35) Dibromofluoromethane	8.177	113	127940	48.965	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.940%
50) Toluene-d8	10.565	98	532983	51.527	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.060%
62) 4-Bromofluorobenzene	12.847	95	188114	48.950	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.900%

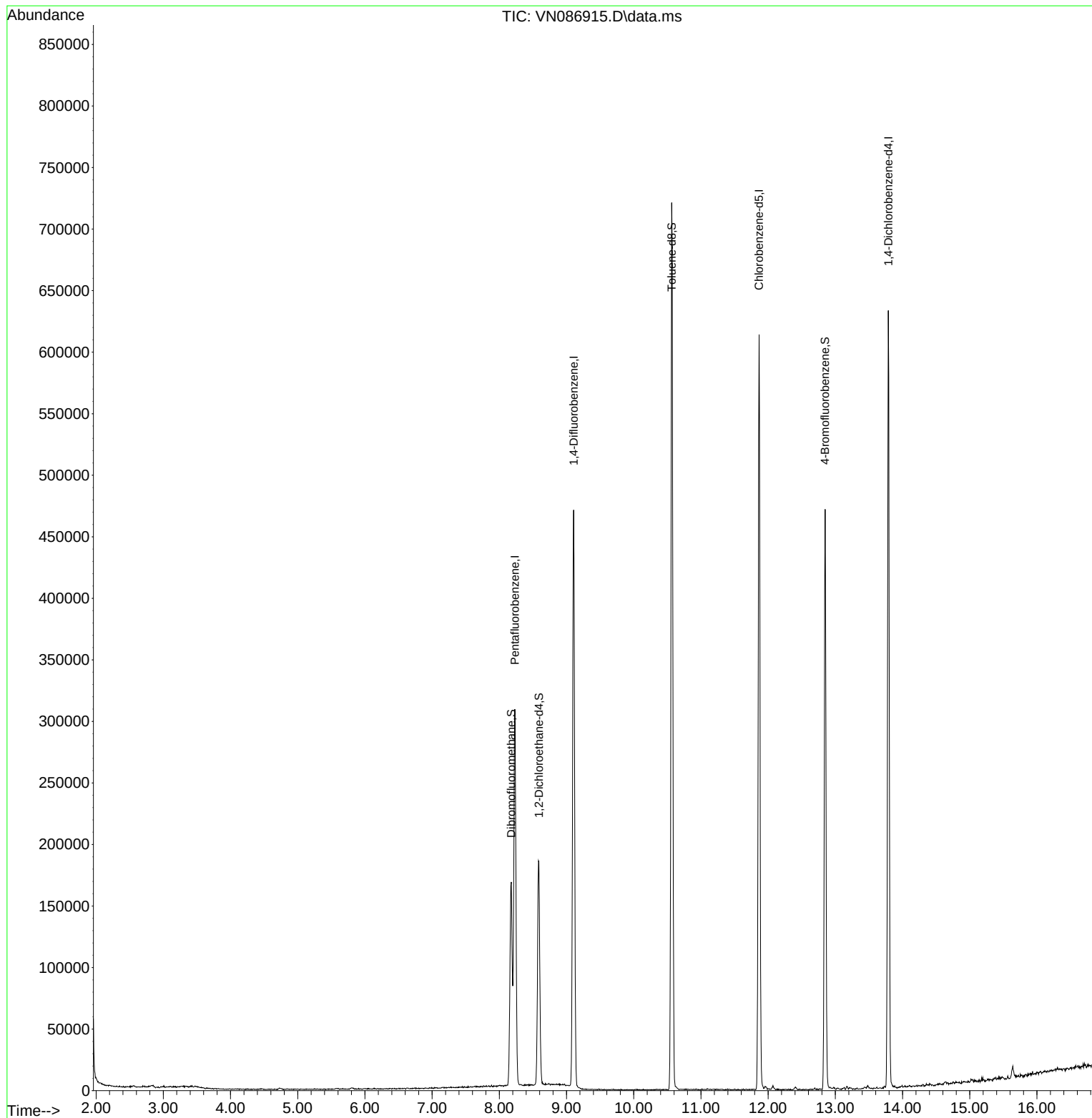
Target Compounds	Qvalue

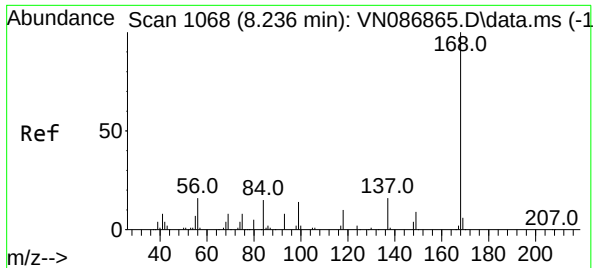
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086915.D
Acq On : 10 Jun 2025 10:09
Operator : JC\MD
Sample : VN0610WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

Quant Time: Jun 11 01:48:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

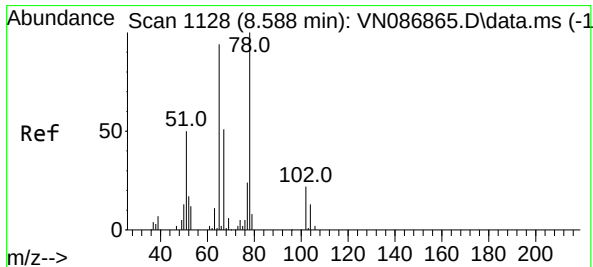
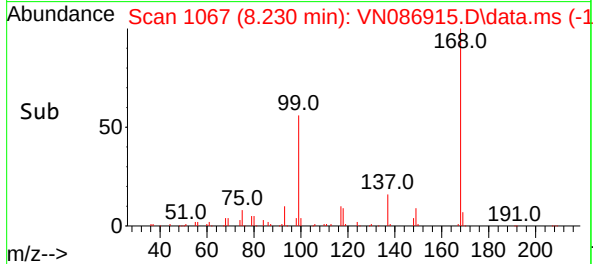
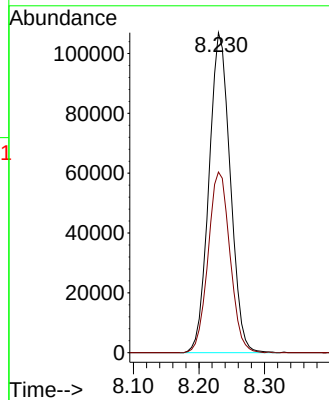
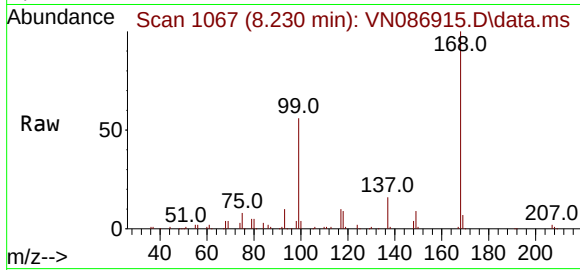




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

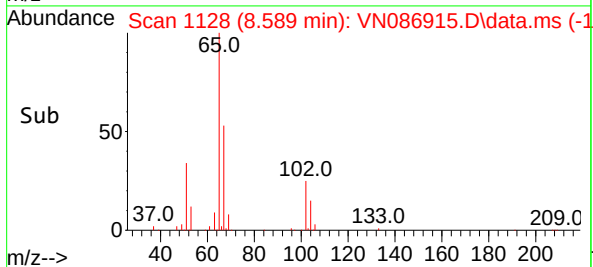
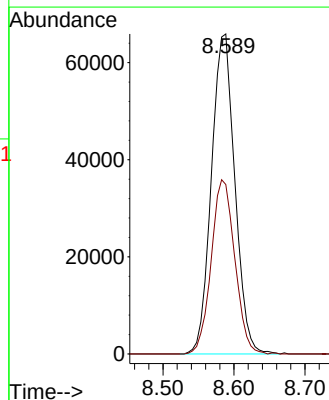
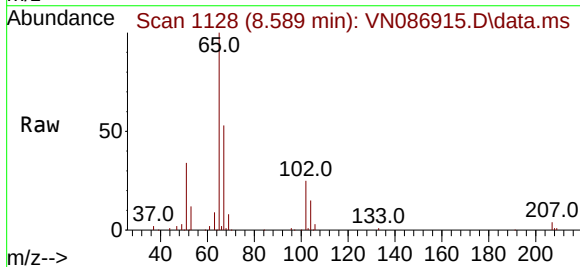
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

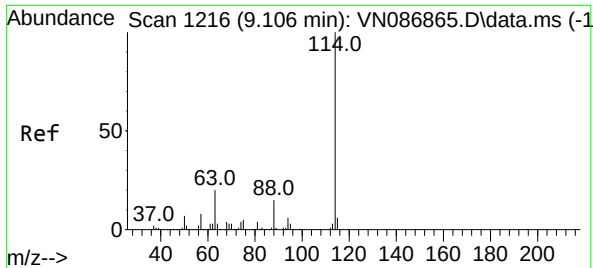
Tgt Ion:168 Resp: 241251
Ion Ratio Lower Upper
168 100
99 56.4 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 46.706 ug/l
RT: 8.589 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion: 65 Resp: 150863
Ion Ratio Lower Upper
65 100
67 54.8 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086915.D

Acq: 10 Jun 2025 10:09

Instrument :

MSVOA_N

ClientSampleId :

VN0610WBL01

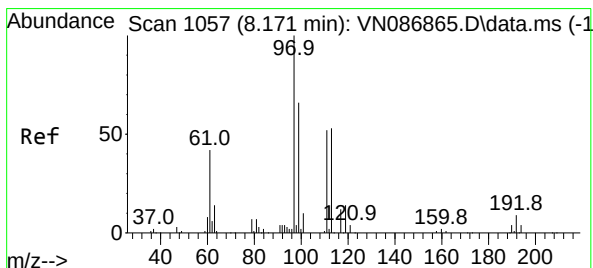
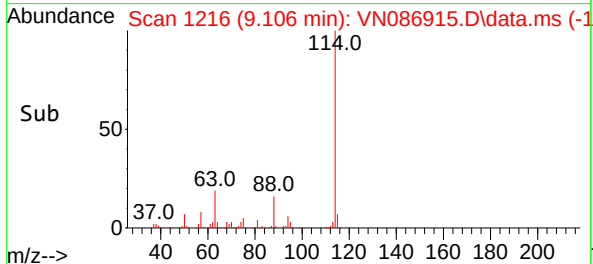
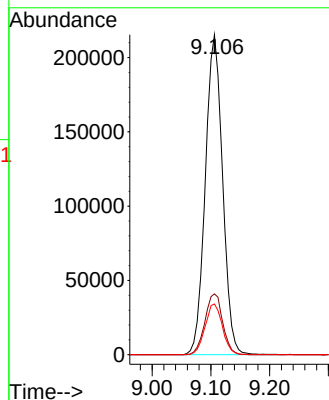
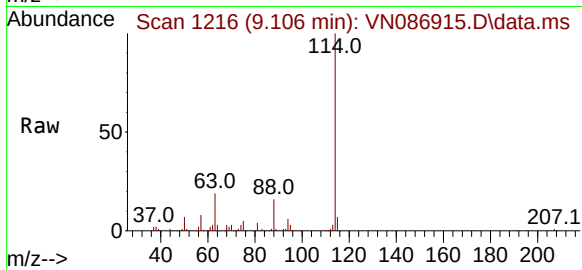
Tgt Ion:114 Resp: 440901

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.6

88 15.9 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.965 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086915.D

Acq: 10 Jun 2025 10:09

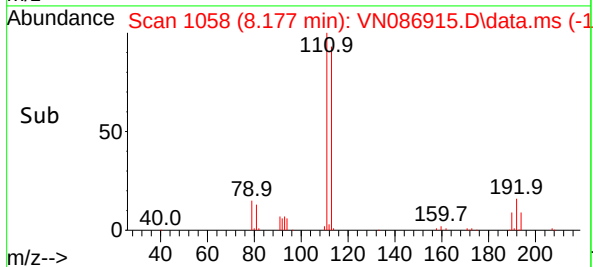
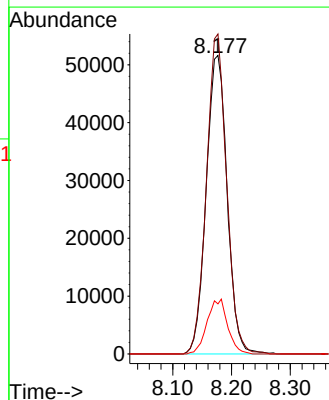
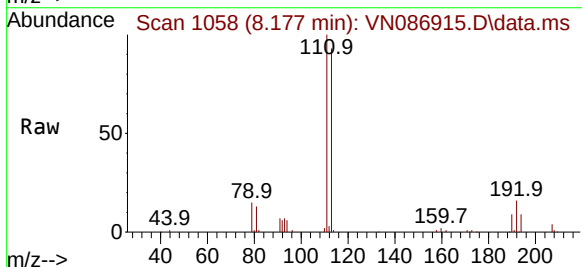
Tgt Ion:113 Resp: 127940

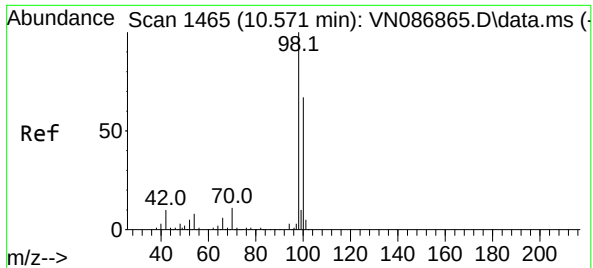
Ion Ratio Lower Upper

113 100

111 103.3 84.2 126.2

192 18.1 14.2 21.4

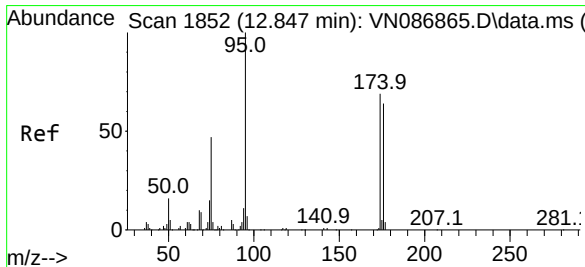
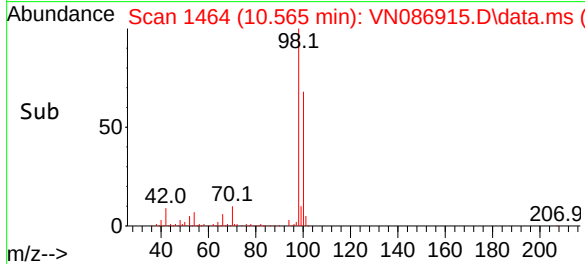
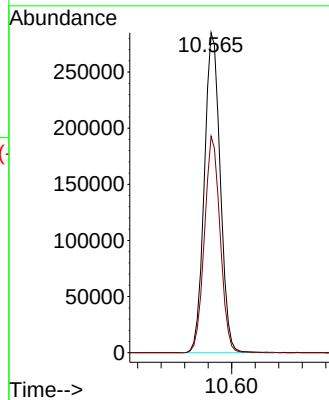
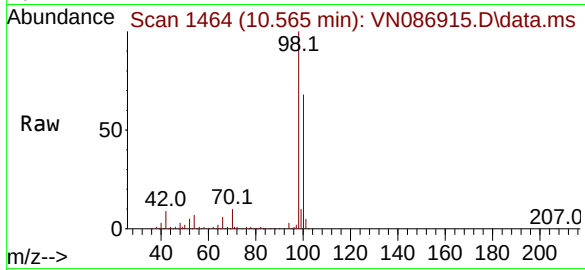




#50
Toluene-d8
Concen: 51.527 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

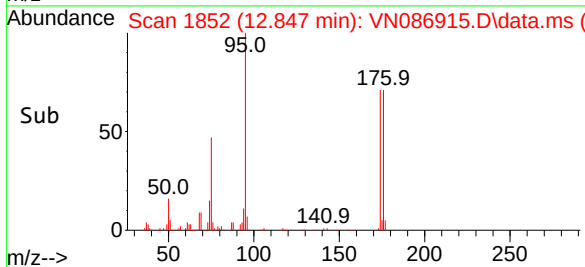
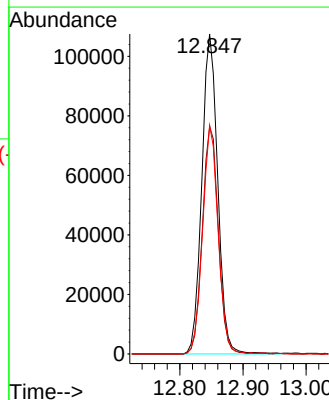
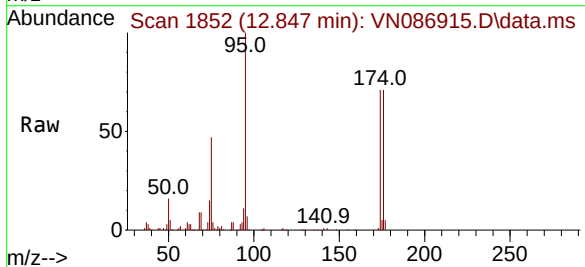
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

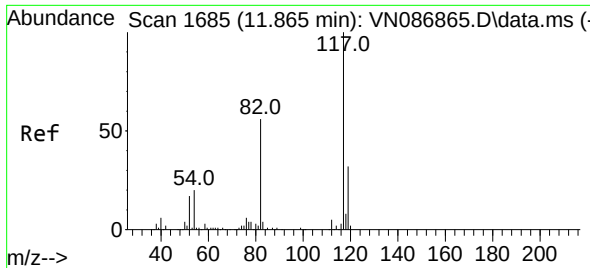
Tgt Ion: 98 Resp: 532983
Ion Ratio Lower Upper
98 100
100 66.7 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 48.950 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion: 95 Resp: 188114
Ion Ratio Lower Upper
95 100
174 71.2 0.0 141.8
176 69.4 0.0 132.6

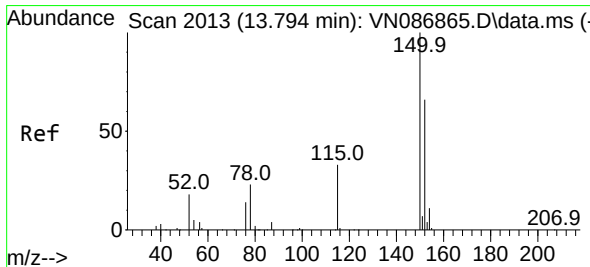
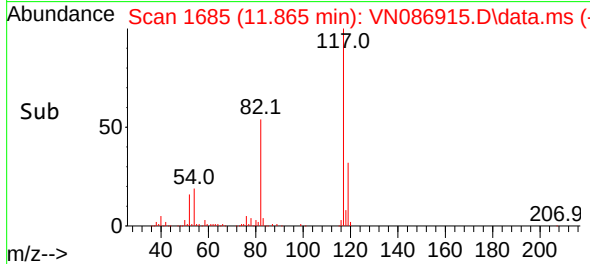
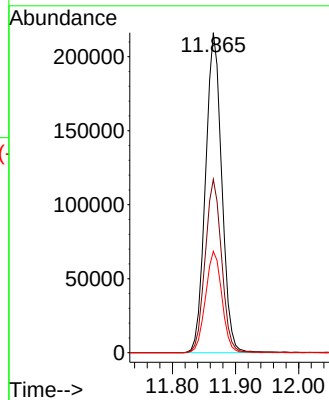
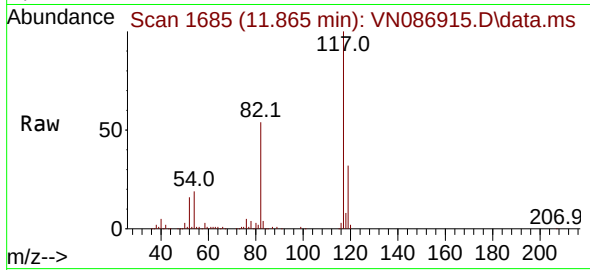




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

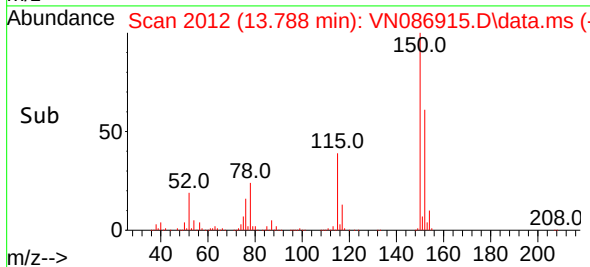
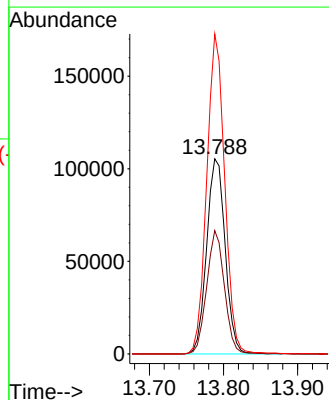
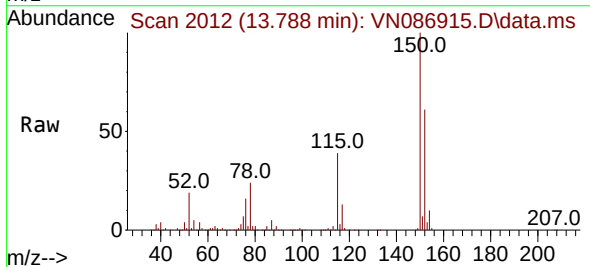
Instrument :
MSVOA_N
ClientSampleId :
VN0610WBL01

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.2	44.6	67.0
119	31.7	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN086915.D
Acq: 10 Jun 2025 10:09

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.4	30.1	90.5
150	158.5	0.0	345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086942.D
 Acq On : 11 Jun 2025 12:28
 Operator : JC\MD
 Sample : VN0611WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBL01

A
B
C
D
E
F
G
H
I
J

Quant Time: Jun 12 01:30:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	328120	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	618651	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	543433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	257257	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.583	65	212062	48.271	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	96.540%
35) Dibromofluoromethane	8.177	113	180701	49.287	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.580%
50) Toluene-d8	10.565	98	749967	51.673	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.340%
62) 4-Bromofluorobenzene	12.847	95	266545	49.431	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.860%

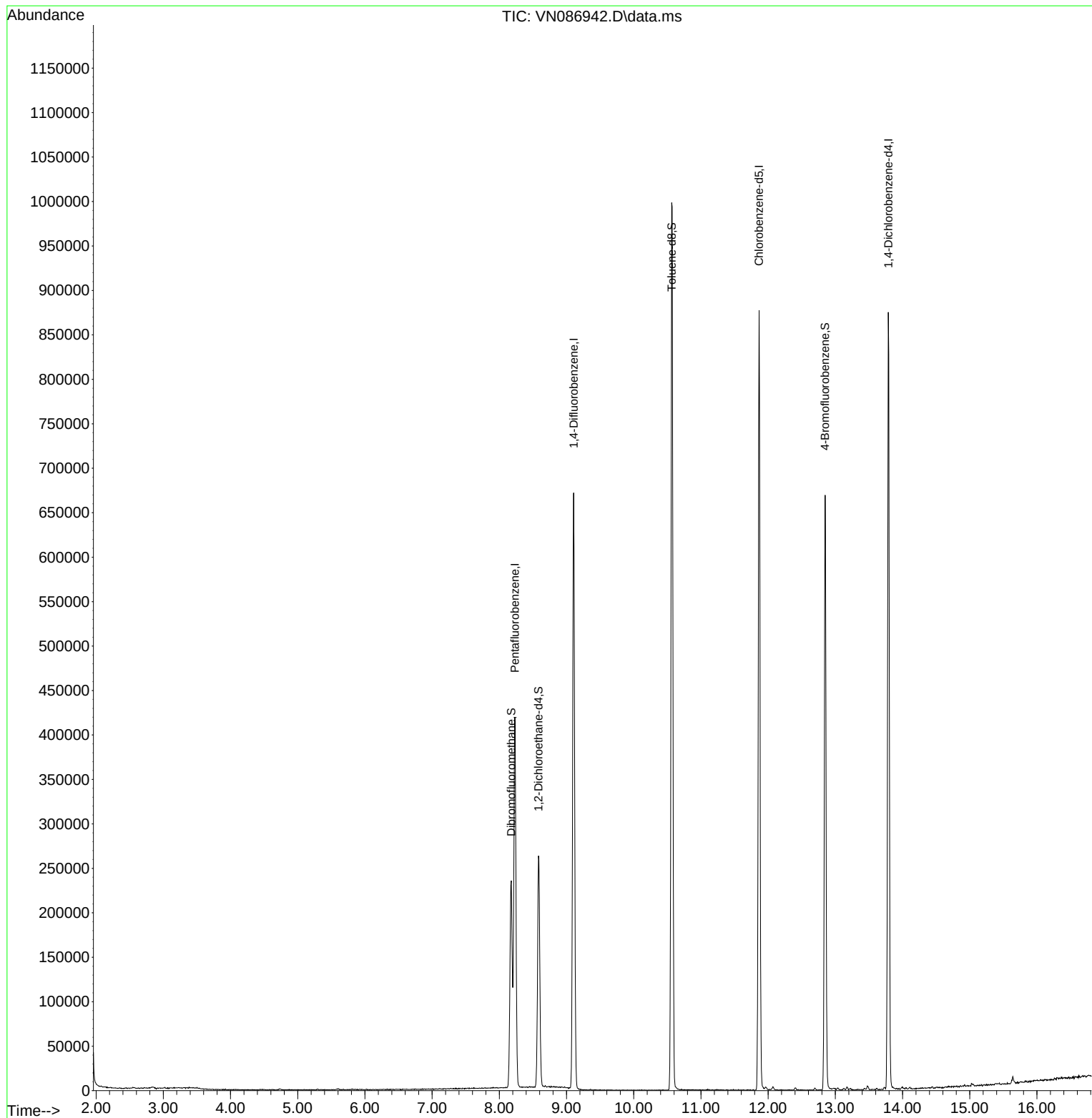
Target Compounds Qvalue

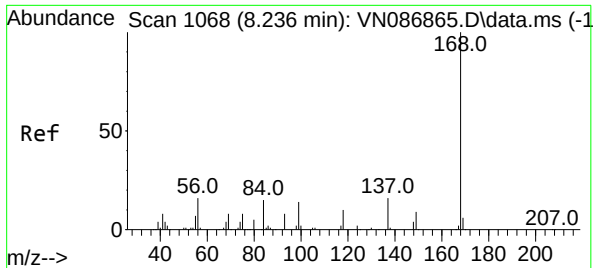
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086942.D
Acq On : 11 Jun 2025 12:28
Operator : JC\MD
Sample : VN0611WBL01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

Quant Time: Jun 12 01:30:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

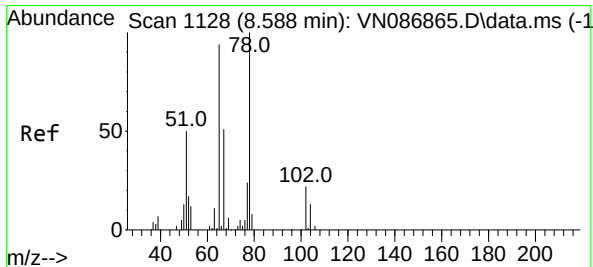
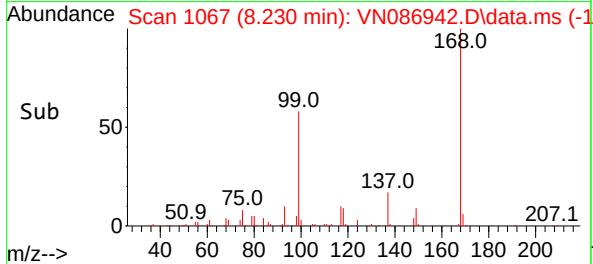
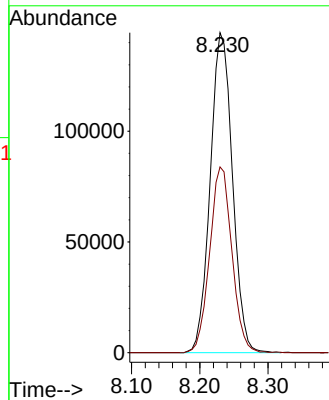
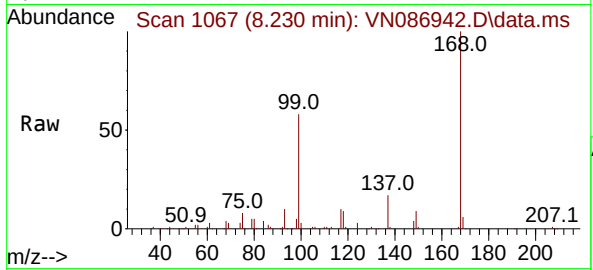




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

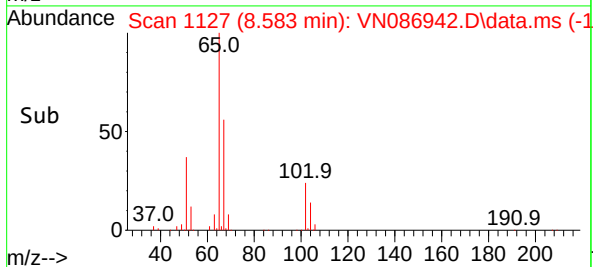
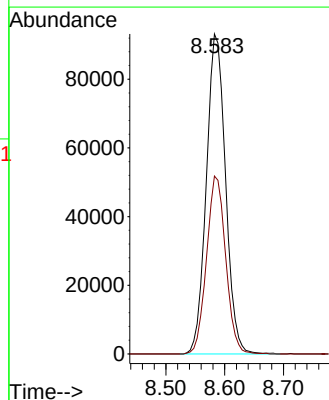
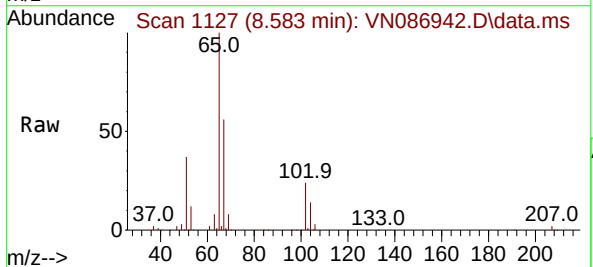
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

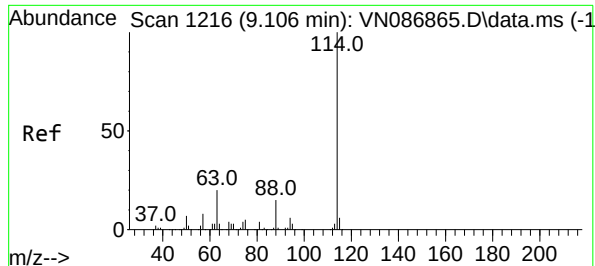
Tgt Ion:168 Resp: 328120
Ion Ratio Lower Upper
168 100
99 58.0 49.1 73.7



#33
1,2-Dichloroethane-d4
Concen: 48.271 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 65 Resp: 212062
Ion Ratio Lower Upper
65 100
67 55.4 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

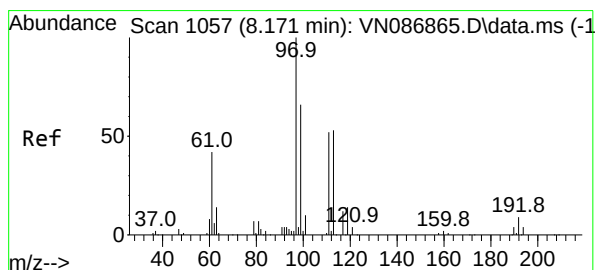
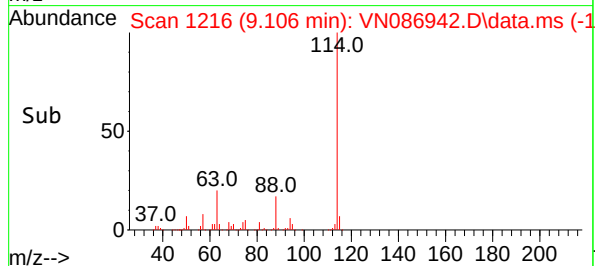
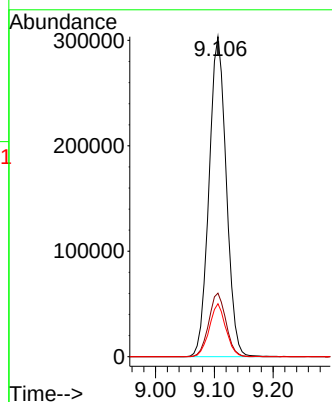
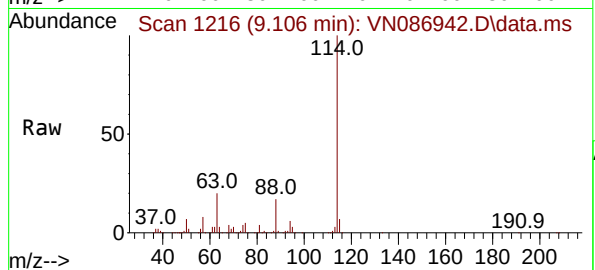
Tgt Ion:114 Resp: 618651

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.6

88 16.5 0.0 30.2



#35

Dibromofluoromethane

Concen: 49.287 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

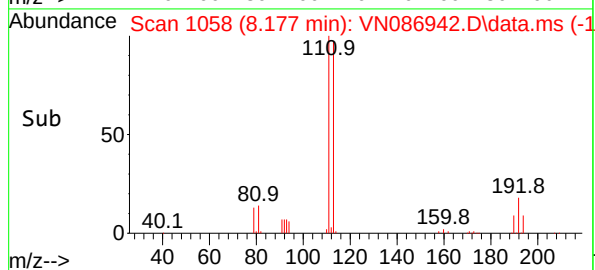
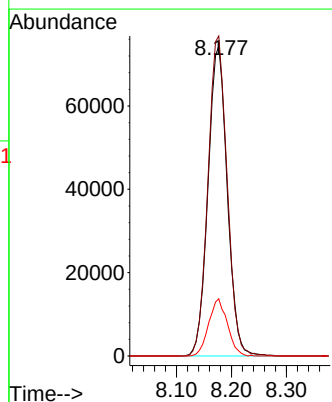
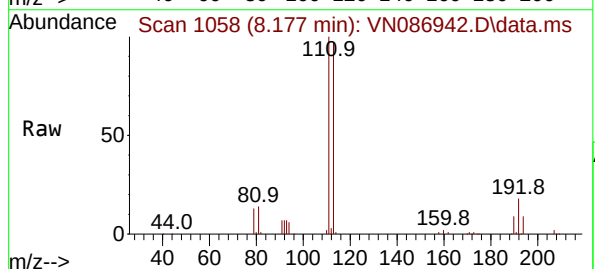
Tgt Ion:113 Resp: 180701

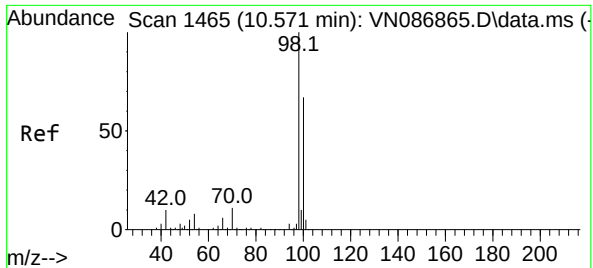
Ion Ratio Lower Upper

113 100

111 103.1 84.2 126.2

192 18.0 14.2 21.4

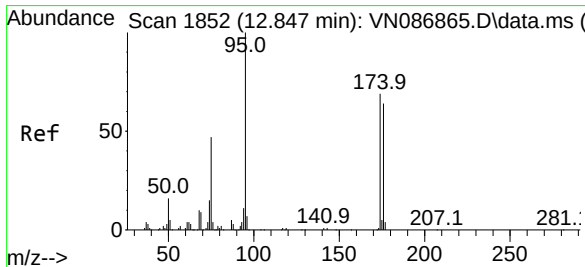
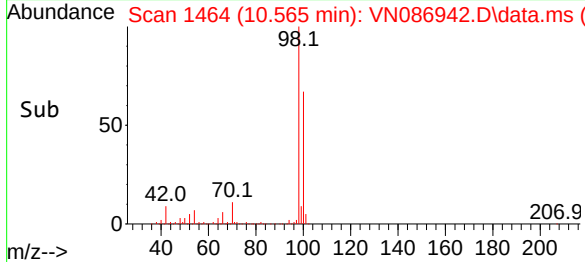
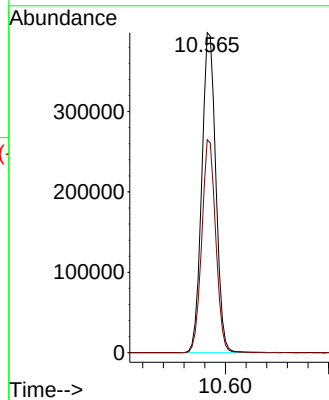
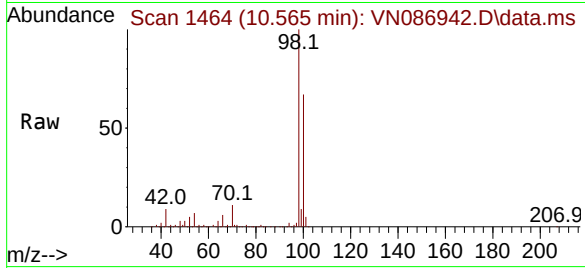




#50
Toluene-d8
Concen: 51.673 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

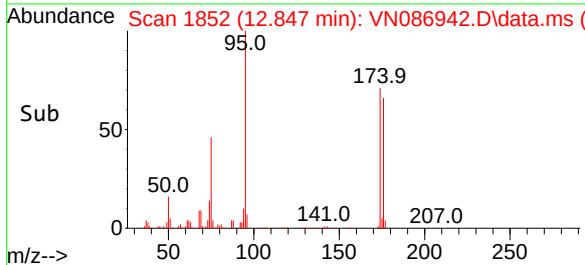
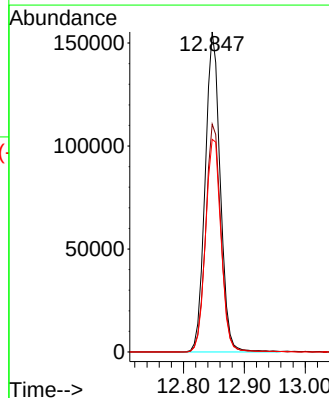
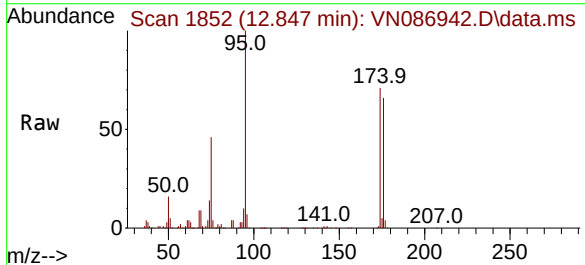
Instrument :
MSVOA_N
ClientSampleId :
VN0611WBL01

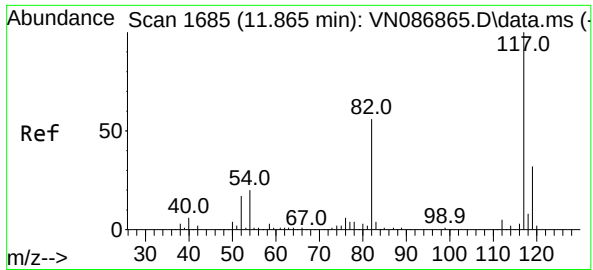
Tgt Ion: 98 Resp: 749967
Ion Ratio Lower Upper
98 100
100 66.0 53.4 80.0



#62
4-Bromofluorobenzene
Concen: 49.431 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086942.D
Acq: 11 Jun 2025 12:28

Tgt Ion: 95 Resp: 266545
Ion Ratio Lower Upper
95 100
174 72.3 0.0 141.8
176 68.8 0.0 132.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

Instrument :

MSVOA_N

ClientSampleId :

VN0611WBL01

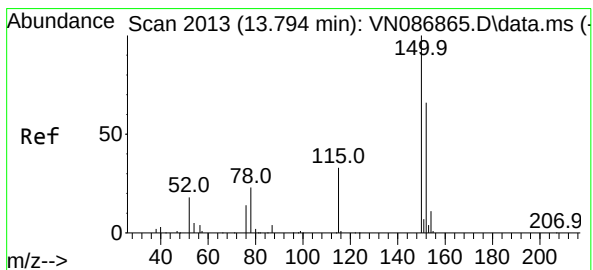
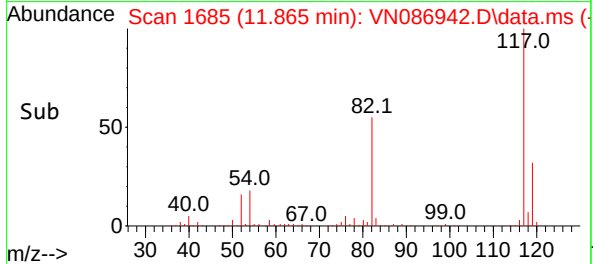
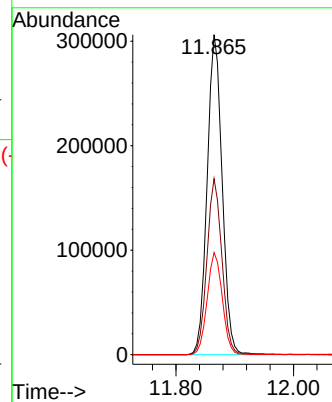
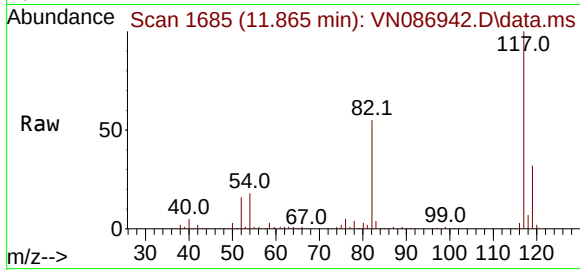
Tgt Ion:117 Resp: 543433

Ion Ratio Lower Upper

117 100

82 55.0 44.6 67.0

119 31.9 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN086942.D

Acq: 11 Jun 2025 12:28

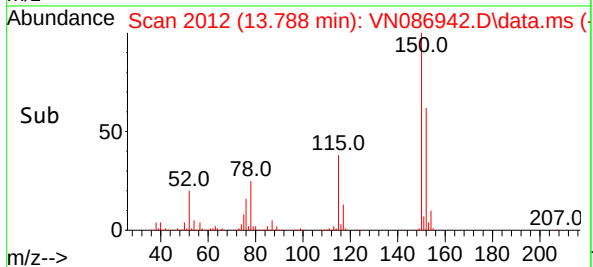
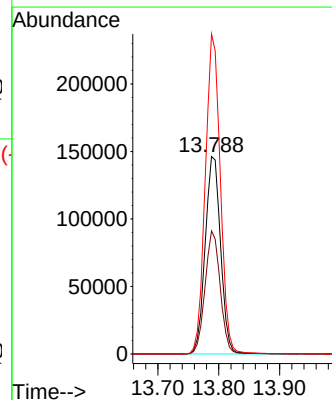
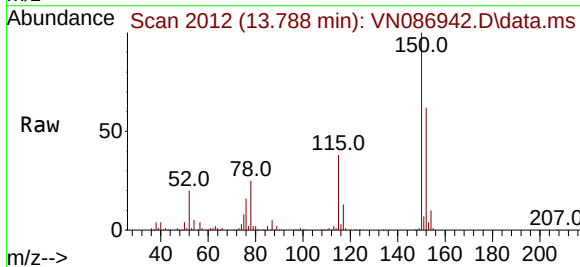
Tgt Ion:152 Resp: 257257

Ion Ratio Lower Upper

152 100

115 61.2 30.1 90.5

150 157.9 0.0 345.0



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086916.D
 Acq On : 10 Jun 2025 10:30
 Operator : JC\MD
 Sample : VN0610WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.230	168	249843	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	443174	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	389297	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	189620	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.582	65	151805	45.381	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.760%
35) Dibromofluoromethane	8.177	113	129937	49.474	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.940%
50) Toluene-d8	10.571	98	505508	48.620	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	97.240%
62) 4-Bromofluorobenzene	12.847	95	186676	48.327	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	96.660%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.153	85	47416	19.034	ug/l	98
3) Chloromethane	2.401	50	51246	15.931	ug/l	100
4) Vinyl Chloride	2.553	62	59638	17.973	ug/l	98
5) Bromomethane	3.000	94	36539	19.677	ug/l	96
6) Chloroethane	3.159	64	39443	18.402	ug/l	96
7) Trichlorofluoromethane	3.530	101	79526	18.343	ug/l	97
8) Diethyl Ether	3.983	74	35508	18.798	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.400	101	49596	18.208	ug/l	99
10) Methyl Iodide	4.612	142	51915	14.703	ug/l	95
11) Tert butyl alcohol	5.530	59	74605	82.194	ug/l	99
12) 1,1-Dichloroethene	4.365	96	52125	18.744	ug/l	90
13) Acrolein	4.200	56	22542	78.459	ug/l	98
14) Allyl chloride	5.047	41	78157	16.947	ug/l	97
15) Acrylonitrile	5.741	53	189727	89.429	ug/l	99
16) Acetone	4.447	43	142458	80.306	ug/l	97
17) Carbon Disulfide	4.736	76	131873	17.144	ug/l	100
18) Methyl Acetate	5.047	43	88551	17.129	ug/l	97
19) Methyl tert-butyl Ether	5.812	73	187833	18.655	ug/l	99
20) Methylene Chloride	5.300	84	57671	17.365	ug/l	95
21) trans-1,2-Dichloroethene	5.812	96	55486	17.934	ug/l	96
22) Diisopropyl ether	6.688	45	176809	18.188	ug/l	96
23) Vinyl Acetate	6.618	43	744861	90.687	ug/l	98
24) 1,1-Dichloroethane	6.583	63	101669	18.173	ug/l	98
25) 2-Butanone	7.494	43	242187	83.991	ug/l	95
26) 2,2-Dichloropropane	7.500	77	89631	20.596	ug/l	100
27) cis-1,2-Dichloroethene	7.494	96	69159	18.691	ug/l	99
28) Bromochloromethane	7.824	49	45748	16.632	ug/l	93
29) Tetrahydrofuran	7.847	42	160591	85.494	ug/l	97
30) Chloroform	7.977	83	101594	18.184	ug/l	97
31) Cyclohexane	8.265	56	89487	16.494	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	85981	18.094	ug/l	98
36) 1,1-Dichloropropene	8.382	75	74129	18.942	ug/l	100
37) Ethyl Acetate	7.571	43	88740	17.812	ug/l	99
38) Carbon Tetrachloride	8.371	117	72144	18.777	ug/l	97
39) Methylcyclohexane	9.606	83	85476	15.942	ug/l	96
40) Benzene	8.612	78	236213	18.458	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086916.D
 Acq On : 10 Jun 2025 10:30
 Operator : JC\MD
 Sample : VN0610WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0610WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	48124	17.200	ug/l	93
42) 1,2-Dichloroethane	8.677	62	72690	18.727	ug/l	99
43) Isopropyl Acetate	8.694	43	144037	18.014	ug/l	97
44) Trichloroethene	9.353	130	58449	19.262	ug/l	97
45) 1,2-Dichloropropane	9.624	63	58046	18.644	ug/l	97
46) Dibromomethane	9.712	93	39229	18.970	ug/l	98
47) Bromodichloromethane	9.888	83	80034	18.810	ug/l	99
48) Methyl methacrylate	9.682	41	64650	17.567	ug/l	96
49) 1,4-Dioxane	9.700	88	23656	353.325	ug/l #	98
51) 4-Methyl-2-Pentanone	10.447	43	440301	91.469	ug/l	98
52) Toluene	10.629	92	148340	18.967	ug/l	97
53) t-1,3-Dichloropropene	10.835	75	93038	19.555	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	98066	19.264	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	58629	19.483	ug/l	99
56) Ethyl methacrylate	10.882	69	93272	19.460	ug/l	96
57) 1,3-Dichloropropane	11.165	76	99132	18.990	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.159	63	251485	87.967	ug/l	98
59) 2-Hexanone	11.206	43	271013	87.405	ug/l	91
60) Dibromochloromethane	11.359	129	61081	19.481	ug/l	99
61) 1,2-Dibromoethane	11.470	107	58347	18.916	ug/l	100
64) Tetrachloroethene	11.106	164	44151	17.920	ug/l	94
65) Chlorobenzene	11.888	112	162051	18.874	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	52766	19.118	ug/l	99
67) Ethyl Benzene	11.965	91	270410	18.284	ug/l	98
68) m/p-Xylenes	12.070	106	213409	37.696	ug/l	96
69) o-Xylene	12.400	106	102597	18.922	ug/l	98
70) Styrene	12.412	104	176358	19.008	ug/l	99
71) Bromoform	12.576	173	41058	20.077	ug/l #	98
73) Isopropylbenzene	12.694	105	249411	18.055	ug/l	100
74) N-amyl acetate	12.529	43	98634m	20.433	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.941	83	90657	19.372	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	77098m	17.105	ug/l	
77) Bromobenzene	12.976	156	61956	19.557	ug/l	97
78) n-propylbenzene	13.035	91	298896	17.805	ug/l	100
79) 2-Chlorotoluene	13.123	91	183491	18.226	ug/l	96
80) 1,3,5-Trimethylbenzene	13.170	105	201924	17.705	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.735	75	39145	19.992	ug/l	91
82) 4-Chlorotoluene	13.217	91	188207	18.476	ug/l	99
83) tert-Butylbenzene	13.435	119	186449	17.859	ug/l	97
84) 1,2,4-Trimethylbenzene	13.482	105	206670	18.071	ug/l	100
85) sec-Butylbenzene	13.612	105	255364	16.843	ug/l	99
86) p-Isopropyltoluene	13.729	119	212141	16.927	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	117325	18.823	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	118648	18.671	ug/l	99
89) n-Butylbenzene	14.053	91	197259	16.250	ug/l	99
90) Hexachloroethane	14.329	117	36492	17.178	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	112799	18.837	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	20803	18.587	ug/l	99
93) 1,2,4-Trichlorobenzene	15.388	180	64838	16.956	ug/l	100
94) Hexachlorobutadiene	15.500	225	20732	14.552	ug/l	98
95) Naphthalene	15.635	128	257750	18.109	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	59536	15.670	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086916.D
Acq On : 10 Jun 2025 10:30
Operator : JC\MD
Sample : VN0610WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 11 01:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

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

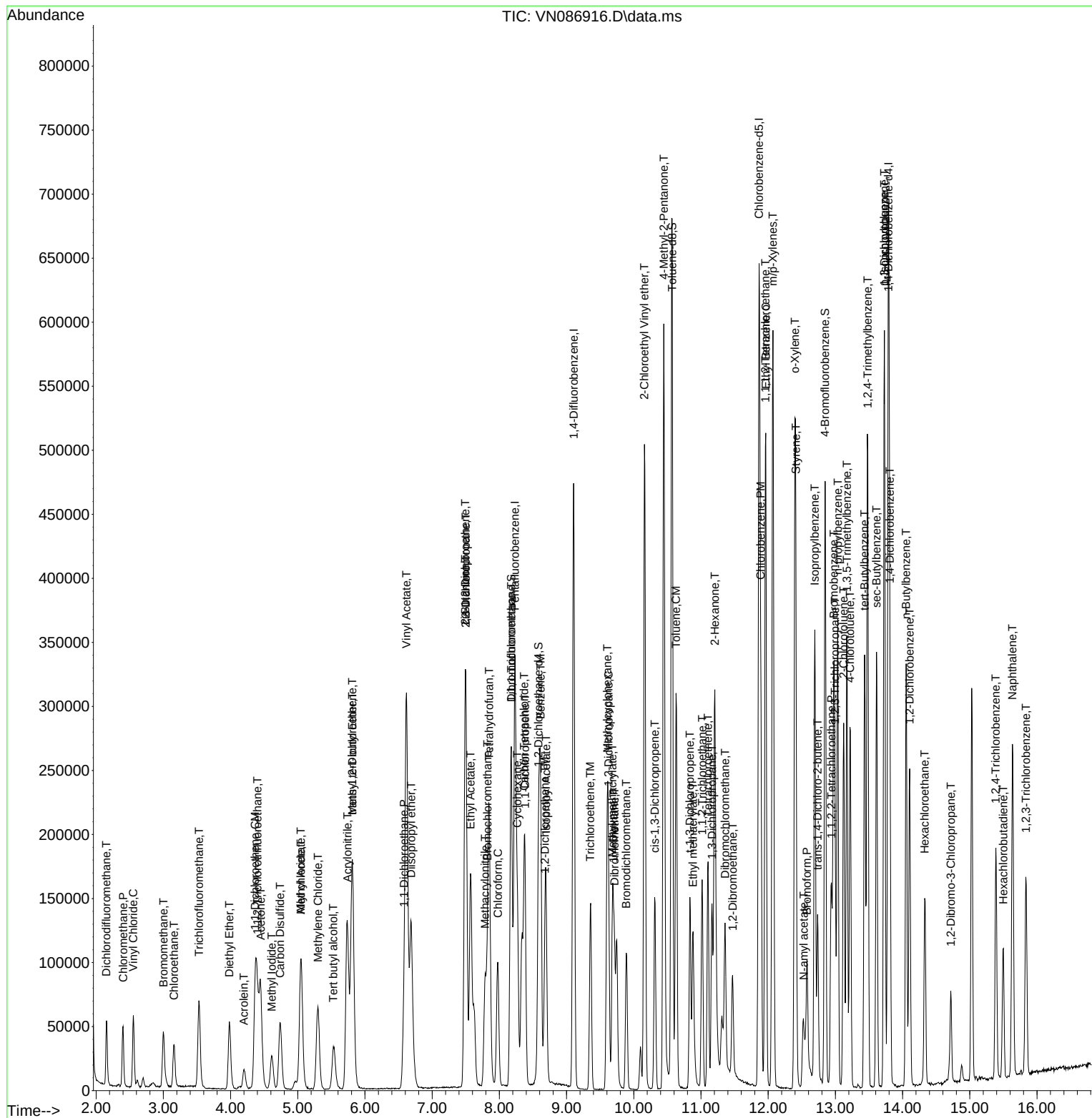
Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086916.D
Acq On : 10 Jun 2025 10:30
Operator : JC\MD
Sample : VN0610WBS01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VN0610WBS01

Manual Integrations

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:48:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.235	168	206799	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	370524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321188	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	157403	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	130342	47.075	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.160%		
35) Dibromofluoromethane	8.177	113	112198	51.096	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	102.200%		
50) Toluene-d8	10.571	98	423380	48.706	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	97.420%		
62) 4-Bromofluorobenzene	12.847	95	161321	49.951	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	99.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.153	85	40672	19.725	ug/l	100
3) Chloromethane	2.401	50	42812	16.079	ug/l	97
4) Vinyl Chloride	2.553	62	51780	18.852	ug/l	95
5) Bromomethane	3.000	94	25577	16.641	ug/l	90
6) Chloroethane	3.153	64	34500	19.446	ug/l	99
7) Trichlorofluoromethane	3.530	101	68752	19.159	ug/l	99
8) Diethyl Ether	3.983	74	30914	19.772	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.400	101	44117	19.568	ug/l	99
10) Methyl Iodide	4.612	142	36924	12.634	ug/l	100
11) Tert butyl alcohol	5.541	59	69743	92.831	ug/l	99
12) 1,1-Dichloroethene	4.365	96	44269	19.233	ug/l	97
13) Acrolein	4.206	56	22290	93.730	ug/l	98
14) Allyl chloride	5.047	41	68027	17.821	ug/l	97
15) Acrylonitrile	5.741	53	166971	95.084	ug/l	100
16) Acetone	4.447	43	145322	98.972	ug/l	98
17) Carbon Disulfide	4.742	76	113132	17.769	ug/l	100
18) Methyl Acetate	5.047	43	81357	19.013	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	163338	19.599	ug/l	98
20) Methylene Chloride	5.294	84	52196	18.988	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	47284	18.464	ug/l	95
22) Diisopropyl ether	6.688	45	155508	19.326	ug/l	97
23) Vinyl Acetate	6.618	43	653278	96.092	ug/l	98
24) 1,1-Dichloroethane	6.588	63	89930	19.421	ug/l	100
25) 2-Butanone	7.494	43	215760	90.401	ug/l	96
26) 2,2-Dichloropropane	7.500	77	78031	21.663	ug/l	98
27) cis-1,2-Dichloroethene	7.500	96	59578	19.453	ug/l	99
28) Bromochloromethane	7.824	49	45329	19.909	ug/l	95
29) Tetrahydrofuran	7.853	42	143866	92.532	ug/l	97
30) Chloroform	7.977	83	90272	19.521	ug/l	98
31) Cyclohexane	8.265	56	79050	17.603	ug/l	97
32) 1,1,1-Trichloroethane	8.182	97	74861	19.033	ug/l	97
36) 1,1-Dichloropropene	8.377	75	63577	19.431	ug/l	99
37) Ethyl Acetate	7.571	43	80415	19.306	ug/l	99
38) Carbon Tetrachloride	8.371	117	61747	19.222	ug/l	97
39) Methylcyclohexane	9.606	83	75971	16.947	ug/l	98
40) Benzene	8.612	78	206255	19.277	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
 Data File : VN086944.D
 Acq On : 11 Jun 2025 13:27
 Operator : JC\MD
 Sample : VN0611WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0611WBS02

Manual Integrations APPROVED

Reviewed By :John Carlone 06/12/2025
 Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	42617	18.218	ug/l	93
42) 1,2-Dichloroethane	8.677	62	63379	19.530	ug/l	98
43) Isopropyl Acetate	8.694	43	126914	18.984	ug/l	98
44) Trichloroethene	9.359	130	50593	19.942	ug/l	99
45) 1,2-Dichloropropane	9.624	63	51091	19.628	ug/l	95
46) Dibromomethane	9.712	93	34741	20.093	ug/l	99
47) Bromodichloromethane	9.894	83	69845	19.634	ug/l	98
48) Methyl methacrylate	9.682	41	57757	18.771	ug/l	99
49) 1,4-Dioxane	9.706	88	22914	409.347	ug/l #	97
51) 4-Methyl-2-Pentanone	10.447	43	394396	97.997	ug/l	99
52) Toluene	10.629	92	127563	19.509	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	79224	19.917	ug/l	100
54) cis-1,3-Dichloropropene	10.318	75	85586	20.109	ug/l	99
55) 1,1,2-Trichloroethane	11.018	97	51421	20.438	ug/l	94
56) Ethyl methacrylate	10.882	69	80942	20.198	ug/l	94
57) 1,3-Dichloropropane	11.165	76	85602	19.613	ug/l	99
58) 2-Chloroethyl Vinyl ether	10.165	63	243584	101.910	ug/l	99
59) 2-Hexanone	11.206	43	231264	89.210	ug/l	95
60) Dibromochloromethane	11.359	129	53655	20.468	ug/l	99
61) 1,2-Dibromoethane	11.471	107	50832	19.711	ug/l	99
64) Tetrachloroethene	11.106	164	38926	19.150	ug/l	98
65) Chlorobenzene	11.894	112	141721	20.006	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	46404	20.378	ug/l	99
67) Ethyl Benzene	11.965	91	239733	19.647	ug/l	100
68) m/p-Xylenes	12.070	106	185026	39.613	ug/l	99
69) o-Xylene	12.400	106	90240	20.172	ug/l	99
70) Styrene	12.412	104	154149	20.137	ug/l	99
71) Bromoform	12.582	173	35350	20.952	ug/l #	96
73) Isopropylbenzene	12.694	105	221545	19.320	ug/l	99
74) N-amyl acetate	12.529	43	63289	15.794	ug/l #	85
75) 1,1,2,2-Tetrachloroethane	12.941	83	81476	20.973	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	71582m	19.132	ug/l	
77) Bromobenzene	12.982	156	55176	20.981	ug/l	98
78) n-propylbenzene	13.035	91	267384	19.187	ug/l	100
79) 2-Chlorotoluene	13.123	91	164813	19.721	ug/l	99
80) 1,3,5-Trimethylbenzene	13.170	105	181773	19.200	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	30121	18.532	ug/l #	82
82) 4-Chlorotoluene	13.217	91	167991	19.866	ug/l	100
83) tert-Butylbenzene	13.435	119	161593	18.646	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	182431	19.216	ug/l	98
85) sec-Butylbenzene	13.617	105	228907	18.189	ug/l	100
86) p-Isopropyltoluene	13.729	119	192991	18.551	ug/l	99
87) 1,3-Dichlorobenzene	13.735	146	104883	20.271	ug/l	98
88) 1,4-Dichlorobenzene	13.812	146	107750	20.426	ug/l	99
89) n-Butylbenzene	14.053	91	177482	17.613	ug/l	100
90) Hexachloroethane	14.329	117	33456	18.972	ug/l	99
91) 1,2-Dichlorobenzene	14.106	146	99394	19.995	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	14.717	75	17796	19.155	ug/l	98
93) 1,2,4-Trichlorobenzene	15.394	180	58509	18.433	ug/l	98
94) Hexachlorobutadiene	15.500	225	19592	16.567	ug/l	97
95) Naphthalene	15.635	128	232760	19.700	ug/l	100
96) 1,2,3-Trichlorobenzene	15.841	180	56144	17.802	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\
Data File : VN086944.D
Acq On : 11 Jun 2025 13:27
Operator : JC\MD
Sample : VN0611WBS02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

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

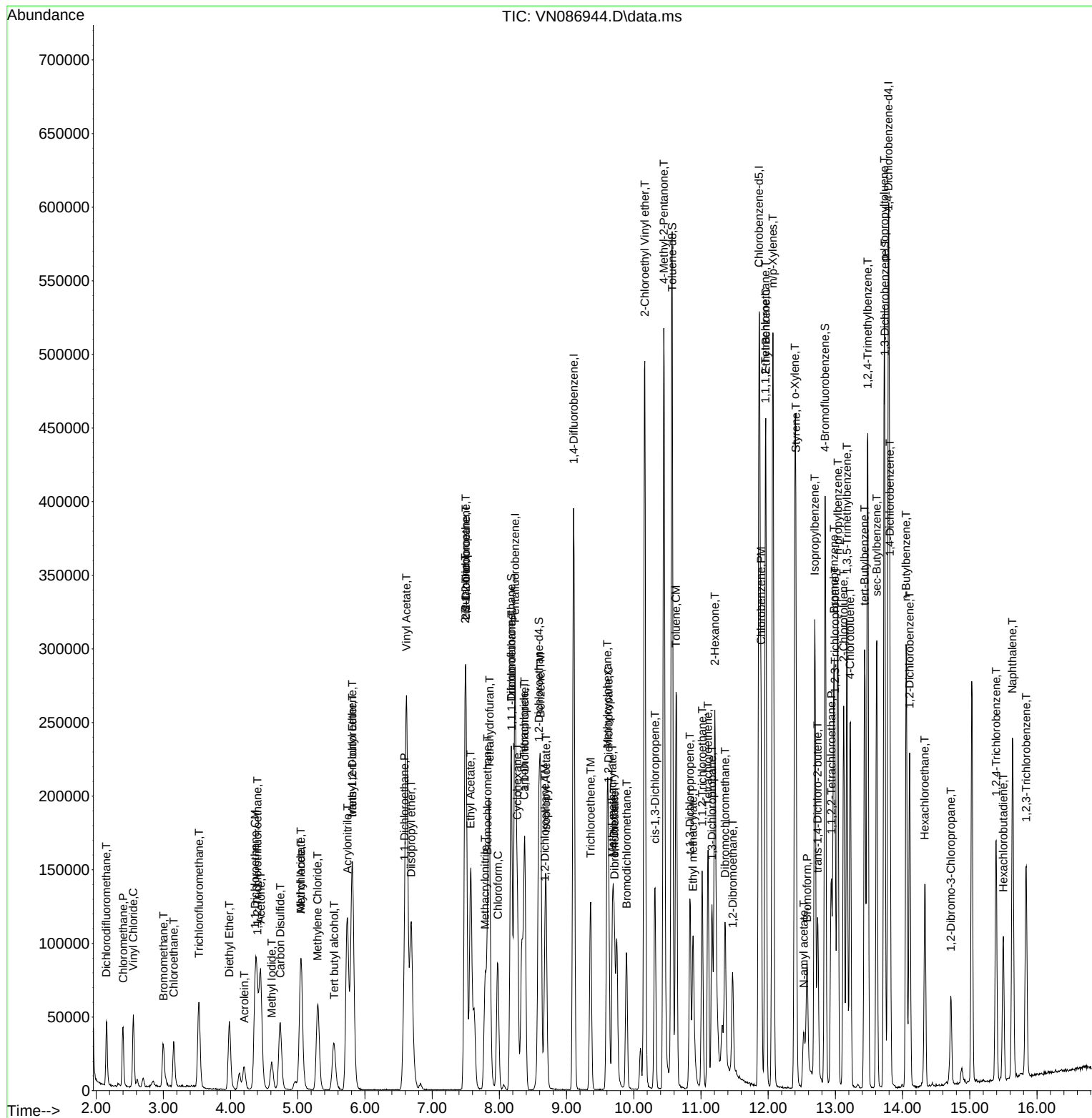
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061125\  
Data File : VN086944.D  
Acq On    : 11 Jun 2025  13:27  
Operator  : JC\MD  
Sample    : VN0611WBS02  
Misc      : 5.0mL/MSVOA_N/WATER  
ALS Vial  : 6      Sample Multiplier: 1
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Instrument :
MSVOA_N
ClientSampleId :
VN0611WBS02

Manual Integrations

Reviewed By :John Carlone 06/12/2025
Supervised By :Semsettin Yesilyurt 06/12/2025

Quant Time: Jun 12 01:31:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086922.D
 Acq On : 10 Jun 2025 12:51
 Operator : JC\MD
 Sample : Q2250-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MS

Quant Time: Jun 11 01:52:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	174378	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	310932	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	270945	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132628	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	116443	49.874	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.740%		
35) Dibromofluoromethane	8.177	113	96506	52.373	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.740%		
50) Toluene-d8	10.571	98	373191	51.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	102.320%		
62) 4-Bromofluorobenzene	12.847	95	138034	50.932	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.860%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.154	85	68302	39.284	ug/l	96
3) Chloromethane	2.395	50	80842	36.007	ug/l	100
4) Vinyl Chloride	2.554	62	116824	50.442	ug/l	100
5) Bromomethane	3.001	94	51812	39.977	ug/l	94
6) Chloroethane	3.159	64	58869	39.351	ug/l	100
7) Trichlorofluoromethane	3.530	101	115932	38.313	ug/l	96
8) Diethyl Ether	3.989	74	51551	39.101	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.400	101	367438	193.276	ug/l	99
10) Methyl Iodide	4.618	142	79922	32.430	ug/l	97
11) Tert butyl alcohol	5.530	59	107683	169.980	ug/l	98
12) 1,1-Dichloroethene	4.371	96	92890	47.860	ug/l	93
13) Acrolein	4.200	56	33731	168.212	ug/l	98
14) Allyl chloride	5.047	41	117940	36.641	ug/l	96
15) Acrylonitrile	5.736	53	284483	192.124	ug/l	98
16) Acetone	4.448	43	215008	173.656	ug/l	99
17) Carbon Disulfide	4.742	76	196337	36.571	ug/l	98
18) Methyl Acetate	5.047	43	132769	36.798	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	271783	38.674	ug/l	98
20) Methylene Chloride	5.300	84	87753	37.857	ug/l	96
21) trans-1,2-Dichloroethene	5.806	96	102714	47.566	ug/l	97
22) Diisopropyl ether	6.689	45	255658	37.680	ug/l	99
23) Vinyl Acetate	6.618	43	1062011	185.258	ug/l	99
24) 1,1-Dichloroethane	6.583	63	176376	45.171	ug/l	99
25) 2-Butanone	7.494	43	364801	181.265	ug/l #	80
26) 2,2-Dichloropropane	7.506	77	128482	42.301	ug/l #	1
27) cis-1,2-Dichloroethene	7.500	96	4853647	1879.430	ug/l	90
28) Bromochloromethane	7.824	49	78797	41.044	ug/l	93
29) Tetrahydrofuran	7.847	42	239404	182.609	ug/l	96
30) Chloroform	7.977	83	151067	38.741	ug/l	99
31) Cyclohexane	8.265	56	123047	32.495	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	123440	37.219	ug/l	98
36) 1,1-Dichloropropene	8.377	75	106081	38.635	ug/l	100
37) Ethyl Acetate	7.571	43	126676	36.242	ug/l #	79
38) Carbon Tetrachloride	8.371	117	102158	37.897	ug/l	96
39) Methylcyclohexane	9.606	83	118983	31.630	ug/l	95
40) Benzene	8.612	78	351060	39.099	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086922.D
 Acq On : 10 Jun 2025 12:51
 Operator : JC\MD
 Sample : Q2250-02MS
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MS

Manual Integrations APPROVED

Reviewed By :John Carlone 06/11/2025
 Supervised By :Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:52:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.788	41	70459	35.893	ug/l	94
42) 1,2-Dichloroethane	8.677	62	106970	39.279	ug/l	100
43) Isopropyl Acetate	8.694	43	203030	36.190	ug/l	98
44) Trichloroethene	9.359	130	6264273	2942.351	ug/l	98
45) 1,2-Dichloropropane	9.624	63	84220	38.556	ug/l	99
46) Dibromomethane	9.712	93	58291	40.176	ug/l	99
47) Bromodichloromethane	9.888	83	115490	38.688	ug/l	98
48) Methyl methacrylate	9.682	41	95039	36.807	ug/l	97
49) 1,4-Dioxane	9.700	88	37276	793.544	ug/l #	94
51) 4-Methyl-2-Pentanone	10.447	43	627690	185.856	ug/l	97
52) Toluene	10.629	92	211099	38.472	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	134072	40.165	ug/l	98
54) cis-1,3-Dichloropropene	10.312	75	141166	39.524	ug/l	98
55) 1,1,2-Trichloroethane	11.018	97	84553	40.047	ug/l	98
56) Ethyl methacrylate	10.882	69	138783	41.269	ug/l	95
57) 1,3-Dichloropropane	11.165	76	142808	38.991	ug/l	98
59) 2-Hexanone	11.200	43	410712	188.796	ug/l	94
60) Dibromochloromethane	11.359	129	88571	40.264	ug/l	98
61) 1,2-Dibromoethane	11.471	107	85449	39.485	ug/l	98
64) Tetrachloroethene	11.106	164	97793	57.032	ug/l	97
65) Chlorobenzene	11.894	112	236181	39.523	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.959	131	74715	38.896	ug/l	99
67) Ethyl Benzene	11.965	91	387237	37.621	ug/l	99
68) m/p-Xylenes	12.071	106	305789	77.607	ug/l	97
69) o-Xylene	12.394	106	147363	39.050	ug/l	98
70) Styrene	12.412	104	254157	39.358	ug/l	100
71) Bromoform	12.576	173	59843	42.046	ug/l #	100
73) Isopropylbenzene	12.694	105	356009	36.846	ug/l	100
74) N-amyl acetate	12.512	43	142895m	42.322	ug/l	
75) 1,1,2,2-Tetrachloroethane	12.935	83	131015	40.025	ug/l	100
76) 1,2,3-Trichloropropane	12.994	75	111129m	35.250	ug/l	
77) Bromobenzene	12.982	156	89530	40.405	ug/l	98
78) n-propylbenzene	13.035	91	421170	35.869	ug/l	99
79) 2-Chlorotoluene	13.123	91	262472	37.274	ug/l	97
80) 1,3,5-Trimethylbenzene	13.170	105	287840	36.083	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	56257	41.077	ug/l	97
82) 4-Chlorotoluene	13.218	91	272044	38.181	ug/l	100
83) tert-Butylbenzene	13.435	119	247652	33.915	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	294041	36.759	ug/l	100
85) sec-Butylbenzene	13.612	105	353284	33.315	ug/l	100
86) p-Isopropyltoluene	13.723	119	297463	33.934	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	165194	37.892	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	172677	38.850	ug/l	99
89) n-Butylbenzene	14.053	91	270209	31.824	ug/l	100
90) Hexachloroethane	14.329	117	52840	35.562	ug/l	96
91) 1,2-Dichlorobenzene	14.106	146	161871	38.647	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.717	75	28266	36.108	ug/l	96
93) 1,2,4-Trichlorobenzene	15.388	180	89607	33.503	ug/l	99
94) Hexachlorobutadiene	15.494	225	26250	26.343	ug/l	99
95) Naphthalene	15.635	128	365200	36.684	ug/l	99
96) 1,2,3-Trichlorobenzene	15.835	180	85176	32.053	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086922.D
Acq On : 10 Jun 2025 12:51
Operator : JC\MD
Sample : Q2250-02MS
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Jun 11 01:52:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

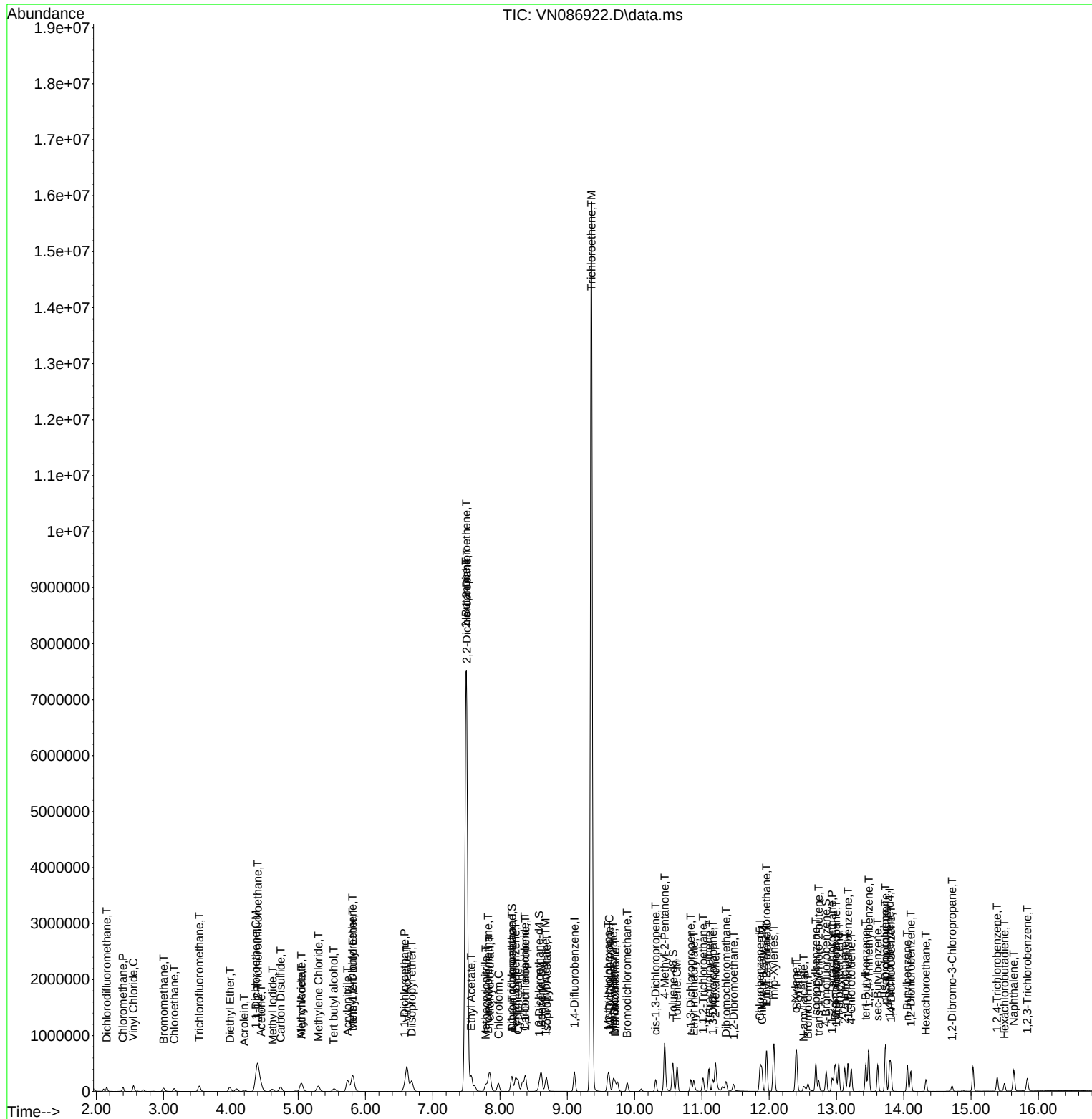
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MS

Manual Integrations

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086923.D
 Acq On : 10 Jun 2025 13:12
 Operator : JC\MD
 Sample : Q2250-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Quant Time: Jun 11 01:53:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.230	168	172955	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	309901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266637	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	129873	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	121937	52.657	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.320%			
35) Dibromofluoromethane	8.177	113	103950	56.601	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 113.200%			
50) Toluene-d8	10.565	98	398352	54.791	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 109.580%			
62) 4-Bromofluorobenzene	12.847	95	149297	55.271	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 110.540%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.154	85	73929	42.871	ug/l	99
3) Chloromethane	2.395	50	84867	38.111	ug/l	97
4) Vinyl Chloride	2.554	62	131440	57.220	ug/l	98
5) Bromomethane	3.001	94	58237	45.304	ug/l	96
6) Chloroethane	3.159	64	65054	43.843	ug/l	99
7) Trichlorofluoromethane	3.530	101	127412	42.453	ug/l	99
8) Diethyl Ether	3.989	74	57896	44.275	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.401	101	438614	232.614	ug/l	99
10) Methyl Iodide	4.618	142	90414	36.989	ug/l	97
11) Tert butyl alcohol	5.536	59	118532	188.644	ug/l	99
12) 1,1-Dichloroethene	4.371	96	102158	53.068	ug/l	93
13) Acrolein	4.195	56	33620	169.038	ug/l	100
14) Allyl chloride	5.053	41	127951	40.078	ug/l	96
15) Acrylonitrile	5.736	53	308878	210.315	ug/l	100
16) Acetone	4.442	43	233959	190.517	ug/l	98
17) Carbon Disulfide	4.742	76	217837	40.910	ug/l	100
18) Methyl Acetate	5.048	43	144814	40.466	ug/l	99
19) Methyl tert-butyl Ether	5.812	73	300398	43.098	ug/l	99
20) Methylene Chloride	5.300	84	95461	41.521	ug/l	96
21) trans-1,2-Dichloroethene	5.812	96	108472	50.646	ug/l	95
22) Diisopropyl ether	6.689	45	277373	41.216	ug/l	97
23) Vinyl Acetate	6.618	43	1159679	203.959	ug/l	100
24) 1,1-Dichloroethane	6.589	63	191588	49.470	ug/l	98
25) 2-Butanone	7.494	43	391789	196.276	ug/l #	80
26) 2,2-Dichloropropane	7.506	77	139381	46.267	ug/l #	1
27) cis-1,2-Dichloroethene	7.500	96	5451059	2128.127	ug/l	90
28) Bromochloromethane	7.824	49	74118	38.924	ug/l	97
29) Tetrahydrofuran	7.847	42	263616	202.731	ug/l	96
30) Chloroform	7.977	83	162638	42.052	ug/l	97
31) Cyclohexane	8.265	56	133904	35.653	ug/l	98
32) 1,1,1-Trichloroethane	8.177	97	136050	41.359	ug/l	99
36) 1,1-Dichloropropene	8.377	75	117527	42.946	ug/l	99
37) Ethyl Acetate	7.571	43	139485	40.039	ug/l #	79
38) Carbon Tetrachloride	8.371	117	113739	42.334	ug/l	97
39) Methylcyclohexane	9.606	83	133181	35.522	ug/l	97
40) Benzene	8.612	78	385021	43.024	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
 Data File : VN086923.D
 Acq On : 10 Jun 2025 13:12
 Operator : JC\MD
 Sample : Q2250-03MSD
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 01:53:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.789	41	82542	42.189	ug/l	97
42) 1,2-Dichloroethane	8.677	62	116885	43.063	ug/l	100
43) Isopropyl Acetate	8.694	43	222284	39.754	ug/l	96
44) Trichloroethene	9.359	130	6931651	3266.653	ug/l	99
45) 1,2-Dichloropropane	9.624	63	92441	42.460	ug/l	99
46) Dibromomethane	9.712	93	64838	44.837	ug/l	99
47) Bromodichloromethane	9.888	83	126533	42.528	ug/l	100
48) Methyl methacrylate	9.682	41	101839	39.572	ug/l	95
49) 1,4-Dioxane	9.700	88	40909	873.782	ug/l #	99
51) 4-Methyl-2-Pentanone	10.447	43	702657	208.746	ug/l	99
52) Toluene	10.630	92	233021	42.608	ug/l	99
53) t-1,3-Dichloropropene	10.835	75	146110	43.917	ug/l	97
54) cis-1,3-Dichloropropene	10.312	75	154243	43.329	ug/l	97
55) 1,1,2-Trichloroethane	11.018	97	93633	44.495	ug/l	99
56) Ethyl methacrylate	10.877	69	153861	45.905	ug/l	95
57) 1,3-Dichloropropane	11.165	76	155775	42.673	ug/l	97
59) 2-Hexanone	11.200	43	455196	209.941	ug/l	95
60) Dibromochloromethane	11.359	129	99583	45.420	ug/l	99
61) 1,2-Dibromoethane	11.471	107	92981	43.108	ug/l	99
64) Tetrachloroethene	11.106	164	111429	66.034	ug/l	95
65) Chlorobenzene	11.894	112	259599	44.144	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.959	131	84686	44.799	ug/l	99
67) Ethyl Benzene	11.965	91	427727	42.226	ug/l	99
68) m/p-Xylenes	12.071	106	333950	86.123	ug/l	98
69) o-Xylene	12.400	106	162838	43.848	ug/l	97
70) Styrene	12.412	104	282053	44.384	ug/l	99
71) Bromoform	12.576	173	65807	46.983	ug/l #	99
73) Isopropylbenzene	12.694	105	394852	41.733	ug/l	100
74) N-amyl acetate	12.518	43	143729	43.473	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.935	83	144127	44.965	ug/l	99
76) 1,2,3-Trichloropropane	12.994	75	118377m	38.345	ug/l	
77) Bromobenzene	12.976	156	99031	45.640	ug/l	98
78) n-propylbenzene	13.035	91	464253	40.377	ug/l	98
79) 2-Chlorotoluene	13.123	91	289730	42.017	ug/l	98
80) 1,3,5-Trimethylbenzene	13.171	105	321135	41.111	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.735	75	62181	46.366	ug/l	98
82) 4-Chlorotoluene	13.218	91	298311	42.756	ug/l	99
83) tert-Butylbenzene	13.435	119	273596	38.263	ug/l	99
84) 1,2,4-Trimethylbenzene	13.482	105	326290	41.655	ug/l	100
85) sec-Butylbenzene	13.612	105	394374	37.979	ug/l	99
86) p-Isopropyltoluene	13.729	119	332552	38.742	ug/l	99
87) 1,3-Dichlorobenzene	13.729	146	184900	43.312	ug/l	99
88) 1,4-Dichlorobenzene	13.812	146	191420	43.980	ug/l	99
89) n-Butylbenzene	14.053	91	302661	36.403	ug/l	99
90) Hexachloroethane	14.335	117	57752	39.692	ug/l	98
91) 1,2-Dichlorobenzene	14.106	146	177603	43.302	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.717	75	31210	40.715	ug/l	94
93) 1,2,4-Trichlorobenzene	15.388	180	98501	37.609	ug/l	98
94) Hexachlorobutadiene	15.494	225	28911	29.629	ug/l	98
95) Naphthalene	15.635	128	399267	40.957	ug/l	100
96) 1,2,3-Trichlorobenzene	15.835	180	93291	35.852	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061025\
Data File : VN086923.D
Acq On : 10 Jun 2025 13:12
Operator : JC\MD
Sample : Q2250-03MSD
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Jun 11 01:53:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025

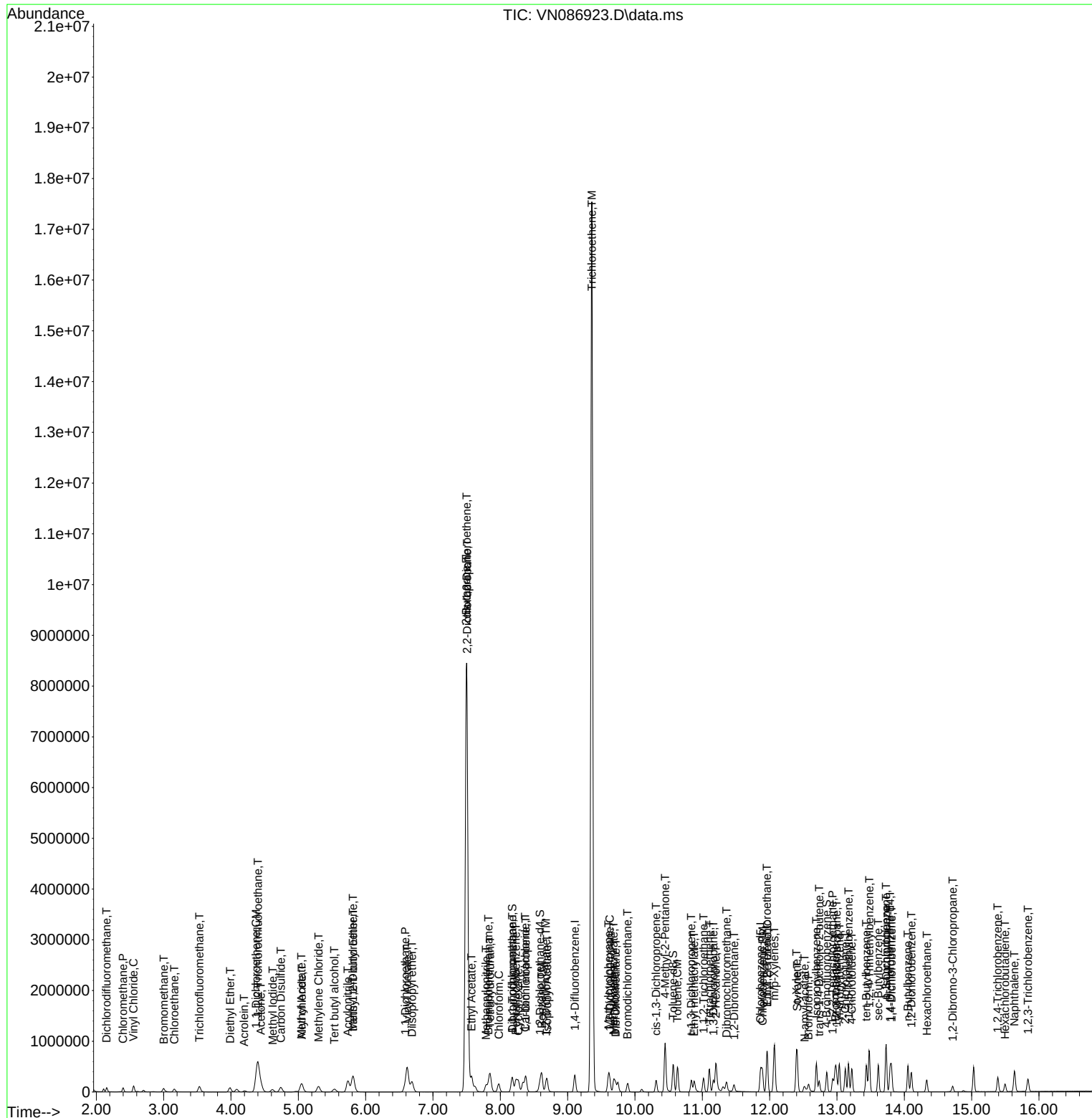
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_N
ClientSampleId :
MW-11A-13.5-060525MSD

Manual Integrations

Reviewed By :John Carlone 06/11/2025
Supervised By :Mahesh Dadoda 06/11/2025



Manual Integration Report

Sequence:	vn060625	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VN086862.D	1,1,2-Trichlorotrifluoroethane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	2-Hexanone	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC001	VN086862.D	N-amyl acetate	JOHN	6/9/2025 8:02:09 AM	MMDadoda	6/9/2025 1:13:18 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC005	VN086863.D	N-amyl acetate	JOHN	6/9/2025 8:02:13 AM	MMDadoda	6/9/2025 1:13:19 PM	Peak Integrated by Software
VSTDICC020	VN086864.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:19 AM	MMDadoda	6/9/2025 1:13:21 PM	Peak Integrated by Software
VSTDICCC050	VN086865.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:25 AM	MMDadoda	6/9/2025 1:13:23 PM	Peak Integrated by Software
VSTDICC100	VN086866.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:29 AM	MMDadoda	6/9/2025 1:13:28 PM	Peak Integrated by Software
VSTDICC150	VN086867.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:34 AM	MMDadoda	6/9/2025 1:13:30 PM	Peak Integrated by Software
VSTDICV050	VN086869.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:38 AM	MMDadoda	6/9/2025 1:13:34 PM	Peak Integrated by Software
VSTDCCC050	VN086886.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:02:55 AM	MMDadoda	6/9/2025 1:13:44 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vn060625

Instrument

MSVOA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VN061025	Instrument	MSVOA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086913.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:44 AM	MMDadoda	6/11/2025 11:12:24 AM	Peak Integrated by Software
VSTDCCC050	VN086913.D	trans-1,4-Dichloro-2-but ene	JOHN	6/11/2025 9:51:44 AM	MMDadoda	6/11/2025 11:12:24 AM	Peak Integrated by Software
VN0610WBS01	VN086916.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:48 AM	MMDadoda	6/11/2025 11:12:38 AM	Peak Integrated by Software
VN0610WBS01	VN086916.D	N-amyl acetate	JOHN	6/11/2025 9:51:48 AM	MMDadoda	6/11/2025 11:12:38 AM	Peak Integrated by Software
Q2250-02MS	VN086922.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:51:56 AM	MMDadoda	6/11/2025 11:12:42 AM	Peak Integrated by Software
Q2250-02MS	VN086922.D	N-amyl acetate	JOHN	6/11/2025 9:51:56 AM	MMDadoda	6/11/2025 11:12:42 AM	Peak Integrated by Software
Q2250-03MSD	VN086923.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:52:00 AM	MMDadoda	6/11/2025 11:12:43 AM	Peak Integrated by Software
VSTDCCC050	VN086938.D	1,2,3-Trichloropropane	JOHN	6/11/2025 9:52:32 AM	MMDadoda	6/11/2025 11:12:50 AM	Peak Integrated by Software
VSTDCCC050	VN086938.D	trans-1,4-Dichloro-2-but ene	JOHN	6/11/2025 9:52:32 AM	MMDadoda	6/11/2025 11:12:50 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

vn061125

Instrument

MSVOA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VN086940.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:09 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VN0611WBS02	VN086944.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:47:21 AM	Sam	6/12/2025 3:54:50 PM	Peak Integrated by Software
VSTDCCC050	VN086965.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:53:57 AM	Sam	6/12/2025 3:54:56 PM	Peak Integrated by Software

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086861.D	06 Jun 2025 07:59	JC\MD	Ok
2	VSTDIC001	VN086862.D	06 Jun 2025 12:44	JC\MD	Ok,M
3	VSTDIC005	VN086863.D	06 Jun 2025 13:17	JC\MD	Ok,M
4	VSTDIC020	VN086864.D	06 Jun 2025 13:40	JC\MD	Ok,M
5	VSTDIC050	VN086865.D	06 Jun 2025 14:03	JC\MD	Ok,M
6	VSTDIC100	VN086866.D	06 Jun 2025 14:26	JC\MD	Ok,M
7	VSTDIC150	VN086867.D	06 Jun 2025 14:49	JC\MD	Ok,M
8	IBLK	VN086868.D	06 Jun 2025 15:12	JC\MD	Ok
9	VSTDICV050	VN086869.D	06 Jun 2025 15:54	JC\MD	Ok,M
10	VN0606WBL01	VN086870.D	06 Jun 2025 16:47	JC\MD	Ok
11	VN0606WBL02	VN086871.D	06 Jun 2025 17:10	JC\MD	Ok
12	VN0606WBS01	VN086872.D	06 Jun 2025 17:33	JC\MD	Ok,M
13	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56	JC\MD	Ok,M
14	Q2254-01	VN086874.D	06 Jun 2025 18:19	JC\MD	Not Ok
15	Q2237-02	VN086875.D	06 Jun 2025 18:42	JC\MD	Ok
16	Q2216-02	VN086876.D	06 Jun 2025 19:05	JC\MD	Ok
17	Q2216-03	VN086877.D	06 Jun 2025 19:28	JC\MD	Ok
18	Q2216-04	VN086878.D	06 Jun 2025 19:51	JC\MD	Ok
19	Q2216-05	VN086879.D	06 Jun 2025 20:13	JC\MD	Not Ok
20	Q2216-06	VN086880.D	06 Jun 2025 20:36	JC\MD	Not Ok
21	Q2206-04	VN086881.D	06 Jun 2025 20:59	JC\MD	Not Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2242-04	VN086882.D	06 Jun 2025 21:21	JC\MD	Not Ok
23	Q2192-01	VN086883.D	06 Jun 2025 21:44	JC\MD	Not Ok
24	Q2198-02	VN086884.D	06 Jun 2025 22:07	JC\MD	Not Ok
25	Q2198-04	VN086885.D	06 Jun 2025 22:29	JC\MD	Not Ok
26	VSTDCCC050	VN086886.D	06 Jun 2025 22:52	JC\MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086912.D	10 Jun 2025 08:39	JC\MD	Ok
2	VSTDCCC050	VN086913.D	10 Jun 2025 09:13	JC\MD	Ok,M
3	VN0610MBL01	VN086914.D	10 Jun 2025 09:47	JC\MD	Ok
4	VN0610WBL01	VN086915.D	10 Jun 2025 10:09	JC\MD	Ok
5	VN0610WBS01	VN086916.D	10 Jun 2025 10:30	JC\MD	Ok,M
6	VN0610WBSD01	VN086917.D	10 Jun 2025 11:04	JC\MD	Ok,M
7	IBLK	VN086918.D	10 Jun 2025 11:25	JC\MD	Ok
8	Q2250-05	VN086919.D	10 Jun 2025 11:47	JC\MD	Ok
9	Q2250-06	VN086920.D	10 Jun 2025 12:08	JC\MD	Ok
10	Q2250-01	VN086921.D	10 Jun 2025 12:30	JC\MD	Dilution
11	Q2250-02MS	VN086922.D	10 Jun 2025 12:51	JC\MD	Ok,M
12	Q2250-03MSD	VN086923.D	10 Jun 2025 13:12	JC\MD	Ok,M
13	IBLK	VN086924.D	10 Jun 2025 13:34	JC\MD	Ok
14	Q2251-01	VN086925.D	10 Jun 2025 13:55	JC\MD	Not Ok
15	Q2251-06	VN086926.D	10 Jun 2025 14:17	JC\MD	Not Ok
16	Q2251-05	VN086927.D	10 Jun 2025 14:38	JC\MD	ReRun
17	Q2251-02	VN086928.D	10 Jun 2025 15:00	JC\MD	Ok
18	Q2251-03	VN086929.D	10 Jun 2025 15:22	JC\MD	Ok
19	IBLK	VN086930.D	10 Jun 2025 15:43	JC\MD	Ok
20	IBLK	VN086931.D	10 Jun 2025 16:05	JC\MD	Ok
21	Q2251-01	VN086932.D	10 Jun 2025 16:26	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QCBatch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Mahesh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

22	Q2251-05	VN086933.D	10 Jun 2025 16:48	JC\MD	Ok
23	Q2202-01	VN086934.D	10 Jun 2025 17:09	JC\MD	Ok
24	Q2202-02	VN086935.D	10 Jun 2025 17:31	JC\MD	Ok
25	Q2202-03	VN086936.D	10 Jun 2025 17:52	JC\MD	Dilution
26	Q2279-01	VN086937.D	10 Jun 2025 18:14	JC\MD	Ok
27	VSTDCCC050	VN086938.D	10 Jun 2025 18:57	JC\MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VN086939.D	11 Jun 2025 10:22	JC\MD	Ok
2	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	JC\MD	Ok,M
3	VN0611MBL01	VN086941.D	11 Jun 2025 12:06	JC\MD	Ok
4	VN0611WBL01	VN086942.D	11 Jun 2025 12:28	JC\MD	Ok
5	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	JC\MD	Not Ok
6	VN0611WBS02	VN086944.D	11 Jun 2025 13:27	JC\MD	Ok,M
7	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01	JC\MD	Ok,M
8	Q2251-06	VN086946.D	11 Jun 2025 14:22	JC\MD	Ok
9	Q2202-03DL	VN086947.D	11 Jun 2025 14:44	JC\MD	Ok,M
10	Q2250-01DL	VN086948.D	11 Jun 2025 15:06	JC\MD	Ok
11	Q2202-06	VN086949.D	11 Jun 2025 15:28	JC\MD	Ok
12	Q2189-01	VN086950.D	11 Jun 2025 15:50	JC\MD	Ok
13	Q2202-05	VN086951.D	11 Jun 2025 16:12	JC\MD	Ok
14	Q2202-04	VN086952.D	11 Jun 2025 16:35	JC\MD	Ok
15	Q2231-01	VN086953.D	11 Jun 2025 16:57	JC\MD	Ok
16	Q2231-02	VN086954.D	11 Jun 2025 17:19	JC\MD	Ok,M
17	Q2231-03	VN086955.D	11 Jun 2025 17:41	JC\MD	Ok
18	Q2231-04	VN086956.D	11 Jun 2025 18:04	JC\MD	Ok
19	Q2231-05	VN086957.D	11 Jun 2025 18:26	JC\MD	Ok
20	Q2231-06	VN086958.D	11 Jun 2025 18:48	JC\MD	Ok
21	Q2210-01	VN086959.D	11 Jun 2025 19:10	JC\MD	Ok

Instrument ID: **MSVOA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

22	Q2209-01	VN086960.D	11 Jun 2025 19:33	JC\MD	Ok
23	IBLK	VN086961.D	11 Jun 2025 19:55	JC\MD	Ok
24	IBLK	VN086962.D	11 Jun 2025 20:17	JC\MD	Ok
25	Q2263-01	VN086963.D	11 Jun 2025 20:39	JC\MD	Ok
26	Q2263-02	VN086964.D	11 Jun 2025 21:01	JC\MD	Ok
27	VSTDCCC050	VN086965.D	11 Jun 2025 21:23	JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Mahesh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086861.D	06 Jun 2025 07:59		JC\MD	Ok
2	VSTDICC001	VSTDICC001	VN086862.D	06 Jun 2025 12:44	Method failed for com.#13	JC\MD	Ok,M
3	VSTDICC005	VSTDICC005	VN086863.D	06 Jun 2025 13:17		JC\MD	Ok,M
4	VSTDICC020	VSTDICC020	VN086864.D	06 Jun 2025 13:40		JC\MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VN086865.D	06 Jun 2025 14:03		JC\MD	Ok,M
6	VSTDICC100	VSTDICC100	VN086866.D	06 Jun 2025 14:26		JC\MD	Ok,M
7	VSTDICC150	VSTDICC150	VN086867.D	06 Jun 2025 14:49		JC\MD	Ok,M
8	IBLK	IBLK	VN086868.D	06 Jun 2025 15:12		JC\MD	Ok
9	VSTDICV050	ICVVN060625	VN086869.D	06 Jun 2025 15:54		JC\MD	Ok,M
10	VN0606WBL01	VN0606WBL01	VN086870.D	06 Jun 2025 16:47		JC\MD	Ok
11	VN0606WBL02	VN0606WBL02	VN086871.D	06 Jun 2025 17:10		JC\MD	Ok
12	VN0606WBS01	VN0606WBS01	VN086872.D	06 Jun 2025 17:33		JC\MD	Ok,M
13	VN0606WBSD01	VN0606WBSD01	VN086873.D	06 Jun 2025 17:56		JC\MD	Ok,M
14	Q2254-01	BP-VPB-182-GW-810-8	VN086874.D	06 Jun 2025 18:19	vial A pH<2 endccc out of tune	JC\MD	Not Ok
15	Q2237-02	TW-WTS-10	VN086875.D	06 Jun 2025 18:42	vial A pH<2	JC\MD	Ok
16	Q2216-02	3887	VN086876.D	06 Jun 2025 19:05	vial A pH<2	JC\MD	Ok
17	Q2216-03	3888	VN086877.D	06 Jun 2025 19:28	vial A pH<2	JC\MD	Ok
18	Q2216-04	3864	VN086878.D	06 Jun 2025 19:51	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN060625

Review By	John Carlone	Review On	6/9/2025 8:08:23 AM
Supervise By	Maresh Dadoda	Supervise On	6/9/2025 1:13:51 PM
SubDirectory	VN060625	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134155		
Initial Calibration Stds	VP134242,VP134243,VP134244,VP134245,VP134246,VP134247		
CCC	VP134156		
Internal Standard/PEM			
ICV/I.BLK	VP134248		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2216-05	3865	VN086879.D	06 Jun 2025 20:13	vial A pH<2 Out of Tune	JC\MD	Not Ok
20	Q2216-06	3851	VN086880.D	06 Jun 2025 20:36	vial A pH<2 Out of Tune	JC\MD	Not Ok
21	Q2206-04	TP-1	VN086881.D	06 Jun 2025 20:59	vial A pH<2 Out of Tune	JC\MD	Not Ok
22	Q2242-04	TP09-MHJ	VN086882.D	06 Jun 2025 21:21	vial A pH<2 Out of Tune	JC\MD	Not Ok
23	Q2192-01	SB-1	VN086883.D	06 Jun 2025 21:44	vial A pH<2 Out of Tune	JC\MD	Not Ok
24	Q2198-02	B-202-SB02	VN086884.D	06 Jun 2025 22:07	vial A pH<2 Out of Tune	JC\MD	Not Ok
25	Q2198-04	B-207-SB02	VN086885.D	06 Jun 2025 22:29	vial A pH<2 Out of Tune	JC\MD	Not Ok
26	VSTDCCC050	VSTDCCC050EC	VN086886.D	06 Jun 2025 22:52	Out of Tune	JC\MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086912.D	10 Jun 2025 08:39		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086913.D	10 Jun 2025 09:13	pH#Lot#V12668	JC\MD	Ok,M
3	VN0610MBL01	VN0610MBL01	VN086914.D	10 Jun 2025 09:47		JC\MD	Ok
4	VN0610WBL01	VN0610WBL01	VN086915.D	10 Jun 2025 10:09		JC\MD	Ok
5	VN0610WBS01	VN0610WBS01	VN086916.D	10 Jun 2025 10:30		JC\MD	Ok,M
6	VN0610WBSD01	VN0610WBSD01	VN086917.D	10 Jun 2025 11:04		JC\MD	Ok,M
7	IBLK	IBLK	VN086918.D	10 Jun 2025 11:25		JC\MD	Ok
8	Q2250-05	EB02-060525	VN086919.D	10 Jun 2025 11:47	vial A pH<2 EB	JC\MD	Ok
9	Q2250-06	TB-01-060525	VN086920.D	10 Jun 2025 12:08	vial A pH<2 TB	JC\MD	Ok
10	Q2250-01	MW-11A-13.5-060525	VN086921.D	10 Jun 2025 12:30	vial A pH<2 Need 20X	JC\MD	Dilution
11	Q2250-02MS	MW-11A-13.5-060525M	VN086922.D	10 Jun 2025 12:51	vial A pH<2	JC\MD	Ok,M
12	Q2250-03MSD	MW-11A-13.5-060525M	VN086923.D	10 Jun 2025 13:12	vial A pH<2	JC\MD	Ok,M
13	IBLK	IBLK	VN086924.D	10 Jun 2025 13:34		JC\MD	Ok
14	Q2251-01	BP-VPB-182-TB-20250	VN086925.D	10 Jun 2025 13:55	Confirm concentration	JC\MD	Not Ok
15	Q2251-06	VPB182-HYD-2025060	VN086926.D	10 Jun 2025 14:17	Confirm concentration	JC\MD	Not Ok
16	Q2251-05	BP-VPB-182-EB-20250	VN086927.D	10 Jun 2025 14:38	vial A pH<2 EB;Hit of comp.#16,25	JC\MD	ReRun
17	Q2251-02	BP-VPB-182-GW-740-7	VN086928.D	10 Jun 2025 15:00	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061025

Review By	John Carlone	Review On	6/11/2025 9:59:27 AM
Supervise By	Maresh Dadoda	Supervise On	6/11/2025 11:14:28 AM
SubDirectory	VN061025	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134203		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134204,VP134205		

18	Q2251-03	BP-VPB-182-GW-760-7	VN086929.D	10 Jun 2025 15:22	vial A pH<2	JC\MD	Ok
19	IBLK	IBLK	VN086930.D	10 Jun 2025 15:43		JC\MD	Ok
20	IBLK	IBLK	VN086931.D	10 Jun 2025 16:05		JC\MD	Ok
21	Q2251-01	BP-VPB-182-TB-20250	VN086932.D	10 Jun 2025 16:26	vial A pH<2 TB	JC\MD	Ok
22	Q2251-05	BP-VPB-182-EB-20250	VN086933.D	10 Jun 2025 16:48	vial B pH<2 EB	JC\MD	Ok
23	Q2202-01	MW-9-20250603	VN086934.D	10 Jun 2025 17:09	vial A pH<2	JC\MD	Ok
24	Q2202-02	MW-11-20250603	VN086935.D	10 Jun 2025 17:31	vial A pH<2	JC\MD	Ok
25	Q2202-03	MW-12-20250603	VN086936.D	10 Jun 2025 17:52	vial A pH<2 Need 5X	JC\MD	Dilution
26	Q2279-01	301-469-5TH-AVE	VN086937.D	10 Jun 2025 18:14	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086938.D	10 Jun 2025 18:57		JC\MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VN086939.D	11 Jun 2025 10:22		JC\MD	Ok
2	VSTDCCC050	VSTDCCC050	VN086940.D	11 Jun 2025 11:32	pH#Lot#V12668	JC\MD	Ok,M
3	VN0611MBL01	VN0611MBL01	VN086941.D	11 Jun 2025 12:06		JC\MD	Ok
4	VN0611WBL01	VN0611WBL01	VN086942.D	11 Jun 2025 12:28		JC\MD	Ok
5	VN0611WBS01	VN0611WBS01	VN086943.D	11 Jun 2025 12:50	Recovery fail	JC\MD	Not Ok
6	VN0611WBS02	VN0611WBS02	VN086944.D	11 Jun 2025 13:27		JC\MD	Ok,M
7	VN0611WBSD02	VN0611WBSD02	VN086945.D	11 Jun 2025 14:01		JC\MD	Ok,M
8	Q2251-06	VPB182-HYD-2025060	VN086946.D	11 Jun 2025 14:22	vial A pH<2	JC\MD	Ok
9	Q2202-03DL	MW-12-20250603DL	VN086947.D	11 Jun 2025 14:44	vial B pH<2	JC\MD	Ok,M
10	Q2250-01DL	MW-11A-13.5-060525D	VN086948.D	11 Jun 2025 15:06	vial B pH<2	JC\MD	Ok
11	Q2202-06	TB-20250603	VN086949.D	11 Jun 2025 15:28	vial A pH<2 TB	JC\MD	Ok
12	Q2189-01	MW-7-20250602	VN086950.D	11 Jun 2025 15:50	vial B pH<2	JC\MD	Ok
13	Q2202-05	MW-1A-20250603	VN086951.D	11 Jun 2025 16:12	vial A pH<2	JC\MD	Ok
14	Q2202-04	MW-130-20250603	VN086952.D	11 Jun 2025 16:35	vial A pH<2	JC\MD	Ok
15	Q2231-01	MW-10D-20250604	VN086953.D	11 Jun 2025 16:57	vial A pH<2	JC\MD	Ok
16	Q2231-02	MW-14-20250604	VN086954.D	11 Jun 2025 17:19	vial A pH<2	JC\MD	Ok,M
17	Q2231-03	MW-15-20250604	VN086955.D	11 Jun 2025 17:41	vial A pH<2	JC\MD	Ok
18	Q2231-04	MW-16D-20250604	VN086956.D	11 Jun 2025 18:04	vial A pH<2	JC\MD	Ok

Instrument ID: MSVOA_N

Daily Analysis Runlog For Sequence/QC Batch ID # VN061125

Review By	John Carlone	Review On	6/12/2025 9:57:37 AM
Supervise By	Semsettin Yesilyurt	Supervise On	6/12/2025 3:55:33 PM
SubDirectory	VN061125	HP Acquire Method	HP Processing Method 82N060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134284		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134285,VP134286		

19	Q2231-05	MW-17-20250604	VN086957.D	11 Jun 2025 18:26	vial A pH<2	JC\MD	Ok
20	Q2231-06	TB-20250604	VN086958.D	11 Jun 2025 18:48	vial A pH<2 TB	JC\MD	Ok
21	Q2210-01	TW1	VN086959.D	11 Jun 2025 19:10	vial A pH<2	JC\MD	Ok
22	Q2209-01	P01W	VN086960.D	11 Jun 2025 19:33	vial A pH<2	JC\MD	Ok
23	IBLK	IBLK	VN086961.D	11 Jun 2025 19:55		JC\MD	Ok
24	IBLK	IBLK	VN086962.D	11 Jun 2025 20:17		JC\MD	Ok
25	Q2263-01	RW9-MW01D3-202506	VN086963.D	11 Jun 2025 20:39	vial A pH<2	JC\MD	Ok
26	Q2263-02	RW9-MW01S-2025060	VN086964.D	11 Jun 2025 21:01	vial A pH<2	JC\MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VN086965.D	11 Jun 2025 21:23		JC\MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-01	MW-11A-13.5-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25
Q2250-01DL	MW-11A-13.5-060525 DL	Water	VOCMS Group3	8260-Low	06/05/25		06/11/25	06/05/25
Q2250-05	EB02-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25
Q2250-06	TB-01-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/10/25	06/05/25



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

Hit Summary Sheet SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-11A-13.5-060525							
Q2250-01	MW-11A-13.5-060525	WATER	1,4-Dioxane	2.500	0.07	0.22	ug/L
			Total Svoc :		2.50		
			Total Concentration:		2.50		
Client ID : MW-06-6.5-060525							
Q2250-04	MW-06-6.5-060525	WATER	1,4-Dioxane	0.080	J 0.07	0.21	ug/L
			Total Svoc :		0.08		
			Total Concentration:		0.08		



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	930 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037191.D	1	06/06/25 11:54	06/09/25 12:06	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	2.50		0.070	0.22	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.35		30 (20) - 150 (139)	87%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 (54) - 150 (157)	113%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (154)	89%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		30 (30) - 130 (155)	97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.52		30 (54) - 130 (175)	129%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2010	7.589			
1146-65-2	Naphthalene-d8	5110	10.372			
15067-26-2	Acenaphthene-d10	2790	14.234			
1517-22-2	Phenanthrene-d10	5350	16.984			
1719-03-5	Chrysene-d12	4080	21.189			
1520-96-3	Perylene-d12	4050	23.377			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-06-6.5-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037210.D	1	06/06/25 11:54	06/10/25 02:49	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.080	J	0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		30 (20) - 150 (139)	96%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (54) - 150 (157)	101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.42		30 (27) - 130 (154)	104%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44		30 (30) - 130 (155)	109%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.54	*	30 (54) - 130 (175)	136%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1980		7.589		
1146-65-2	Naphthalene-d8	5100		10.361		
15067-26-2	Acenaphthene-d10	2660		14.234		
1517-22-2	Phenanthrene-d10	4630		16.984		
1719-03-5	Chrysene-d12	3170		21.18		
1520-96-3	Perylene-d12	3100		23.374		

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037199.D	1	06/06/25 11:54	06/09/25 19:27	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.39		30 (20) - 150 (139)	98%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 (54) - 150 (157)	103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.41		30 (27) - 130 (154)	103%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44		30 (30) - 130 (155)	111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.55	*	30 (54) - 130 (175)	137%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1560		7.589		
1146-65-2	Naphthalene-d8	3830		10.362		
15067-26-2	Acenaphthene-d10	2030		14.235		
1517-22-2	Phenanthrene-d10	3500		16.984		
1719-03-5	Chrysene-d12	2340		21.189		
1520-96-3	Perylene-d12	2270		23.377		

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.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168336BL	PB168336BL	2-Methylnaphthalene-d10	0.4	0.36	91		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.40	99		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.37	92		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.40	101		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.42	105		30 (54)	130 (175)
PB168336BS	PB168336BS	2-Methylnaphthalene-d10	0.4	0.36	90		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.30	76		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.36	90		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.38	95		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.38	95		30 (54)	130 (175)
Q2250-01	MW-11A-13.5-060525	2-Methylnaphthalene-d10	0.4	0.35	87		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.45	113		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.36	89		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.39	97		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.52	129		30 (54)	130 (175)
Q2250-02MS	MW-11A-13.5-060525MS	2-Methylnaphthalene-d10	0.4	0.30	75		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	92		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.32	79		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.34	86		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.47	118		30 (54)	130 (175)
Q2250-03MSD	MW-11A-13.5-060525MSD	2-Methylnaphthalene-d10	0.4	0.30	75		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.37	91		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.32	79		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.35	86		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.45	113		30 (54)	130 (175)
Q2250-04	MW-06-6.5-060525	2-Methylnaphthalene-d10	0.4	0.39	96		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.40	101		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.42	104		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.44	109		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.54	136	*	30 (54)	130 (175)
Q2250-05	EB02-060525	2-Methylnaphthalene-d10	0.4	0.39	98		30 (20)	150 (139)
		Fluoranthene-d10	0.4	0.41	103		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.41	103		30 (27)	130 (154)
		2-Fluorobiphenyl	0.4	0.44	111		30 (30)	130 (155)
		Terphenyl-d14	0.4	0.55	137	*	30 (54)	130 (175)

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2250-02MS	Client Sample ID:	MW-11A-13.5-060525MS					DataFile:	BN037192.D		
1,4-Dioxane	0.42	2.50	3.20	ug/L	167	*			20 (10)	160 (175)	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8270-Modified

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q2250-03MSD	Client Sample ID:	MW-11A-13.5-060525MSD					DataFile:	BN037193.D		
1,4-Dioxane	0.4	2.50	3.30	ug/L	200	*	18		20 (10)	160 (175)	20 (20)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2250

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified DataFile: BN037201.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB168336BS	1,4-Dioxane	0.4	0.40	ug/L	100				20 (65)	160 (116)	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168336BL

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2250

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: BN037190.D

Lab Sample ID: PB168336BL

Instrument ID: BNA_N

Date Extracted: 06/06/2025

Matrix: (soil/water) Water

Date Analyzed: 06/09/2025

Level: (low/med) LOW

Time Analyzed: 11:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168336BS	PB168336BS	BN037201.D	06/09/2025
MW-11A-13.5-060525	Q2250-01	BN037191.D	06/09/2025
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025
MW-06-6.5-060525	Q2250-04	BN037210.D	06/10/2025
EB02-060525	Q2250-05	BN037199.D	06/09/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: BN037142.D

DFTPP Injection Date: 06/03/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	69.8
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	58.7
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	53.9
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	6.8
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (19.8) 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	BN037143.D	06/03/2025	11:39
SSTDICC0.2	SSTDICC0.2	BN037144.D	06/03/2025	12:15
SSTDICCC0.4	SSTDICCC0.4	BN037145.D	06/03/2025	12:51
SSTDICC0.8	SSTDICC0.8	BN037146.D	06/03/2025	13:26
SSTDICC1.6	SSTDICC1.6	BN037147.D	06/03/2025	14:02
SSTDICC3.2	SSTDICC3.2	BN037148.D	06/03/2025	14:38
SSTDICC5.0	SSTDICC5.0	BN037149.D	06/03/2025	15:14

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: BN037188.D

DFTPP Injection Date: 06/09/2025

Instrument ID: BNA_N

DFTPP Injection Time: 10:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	74
68	Less than 2.0% of mass 69	0.4 (0.7) 1
69	Mass 69 relative abundance	59.6
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	53
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	6.9
275	10.0 - 60.0% of mass 198	24.1
365	Greater than 1% of mass 198	4.4
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.5 (18.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037189.D	06/09/2025	10:54
PB168336BL	PB168336BL	BN037190.D	06/09/2025	11:30
MW-11A-13.5-060525	Q2250-01	BN037191.D	06/09/2025	12:06
MW-11A-13.5-060525MS	Q2250-02MS	BN037192.D	06/09/2025	14:33
MW-11A-13.5-060525MSD	Q2250-03MSD	BN037193.D	06/09/2025	15:47
EB02-060525	Q2250-05	BN037199.D	06/09/2025	19:27
PB168336BS	PB168336BS	BN037201.D	06/09/2025	20:40

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM

SAS No.: Q2250 SDG NO.: Q2250

Lab File ID: BN037203.D

DFTPP Injection Date: 06/09/2025

Instrument ID: BNA_N

DFTPP Injection Time: 22:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	79.8
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	65.5
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	56.9
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	6.8
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	8.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.6 (20.4) 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	BN037204.D	06/09/2025	23:11
MW-06-6.5-060525	Q2250-04	BN037210.D	06/10/2025	02:49

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	2093	7.589	5342	10.36	2894	14.24
UPPER LIMIT	4186	8.089	10684	10.862	5788	14.735
LOWER LIMIT	1046.5	7.089	2671	9.862	1447	13.735
EPA SAMPLE NO.						
01 PB168336BL	1816	7.59	4227	10.37	2101	14.25
02 MW-11A-13.5-060525	2013	7.59	5108	10.37	2790	14.23
03 MW-11A-13.5-060525MS	2144	7.59	5670	10.36	2991	14.23
04 MW-11A-13.5-060525MSD	2169	7.59	5646	10.36	2926	14.24
05 EB02-060525	1555	7.59	3832	10.36	2033	14.24
06 PB168336BS	2227	7.59	5466	10.36	2607	14.23

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: CHEMTECH

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037189.D Time Analyzed: 10:54

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	5308	16.984	3516	21.18	3185	23.377
UPPER LIMIT	10616	17.484	7032	21.68	6370	23.877
LOWER LIMIT	2654	16.484	1758	20.68	1592.5	22.877
EPA SAMPLE NO.						
01 PB168336BL	3500	17.00	2446	21.19	2291	23.39
02 MW-11A-13.5-060525	5354	16.98	4077	21.19	4054	23.38
03 MW-11A-13.5-060525MS	5389	16.98	3448	21.19	3177	23.38
04 MW-11A-13.5-060525MSD	5139	16.98	3419	21.18	3336	23.37
05 EB02-060525	3502	16.98	2341	21.19	2267	23.38
06 PB168336BS	4253	16.98	2468	21.19	2373	23.38

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037204.D Time Analyzed: 23:11

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	1688	7.589	4447	10.37	2457	14.23
UPPER LIMIT	3376	8.089	8894	10.872	4914	14.734
LOWER LIMIT	844	7.089	2223.5	9.872	1228.5	13.734
EPA SAMPLE NO.						
01 MW-06-6.5-060525	1975	7.59	5099	10.36	2655	14.23

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: CHEMTECH

Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG NO.: Q2250

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/09/2025

Lab File ID: BN037204.D Time Analyzed: 23:11

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	4471	16.984	2829	21.18	2684	23.377
UPPER LIMIT	8942	17.484	5658	21.68	5368	23.877
LOWER LIMIT	2235.5	16.484	1414.5	20.68	1342	22.877
EPA SAMPLE NO.						
01 MW-06-6.5-060525	4633	16.98	3167	21.18	3104	23.37

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:	PB168336BL	SDG No.:	Q2250
Lab Sample ID:	PB168336BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037190.D	1	06/06/25 11:54	06/09/25 11:30	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.070	U	0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (20) - 150 (139)	91%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 (54) - 150 (157)	99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		30 (27) - 130 (154)	92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		30 (30) - 130 (155)	101%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.42		30 (54) - 130 (175)	105%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1820	7.589			
1146-65-2	Naphthalene-d8	4230	10.372			
15067-26-2	Acenaphthene-d10	2100	14.245			
1517-22-2	Phenanthrene-d10	3500	16.996			
1719-03-5	Chrysene-d12	2450	21.189			
1520-96-3	Perylene-d12	2290	23.386			

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:	PB168336BS	SDG No.:	Q2250
Lab Sample ID:	PB168336BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037201.D	1	06/06/25 11:54	06/09/25 20:40	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	0.40		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.36		30 (20) - 150 (139)	90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.30		30 (54) - 150 (157)	76%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.36		30 (27) - 130 (154)	90%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.38		30 (30) - 130 (155)	95%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		30 (54) - 130 (175)	95%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2230	7.589			
1146-65-2	Naphthalene-d8	5470	10.361			
15067-26-2	Acenaphthene-d10	2610	14.234			
1517-22-2	Phenanthrene-d10	4250	16.984			
1719-03-5	Chrysene-d12	2470	21.188			
1520-96-3	Perylene-d12	2370	23.377			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MS	SDG No.:	Q2250
Lab Sample ID:	Q2250-02MS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037192.D	1	06/06/25 11:54	06/09/25 14:33	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	3.20		0.070	0.21	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		30 (20) - 150 (139)	75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (54) - 150 (157)	92%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		30 (30) - 130 (155)	86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		30 (54) - 130 (175)	118%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2140	7.589			
1146-65-2	Naphthalene-d8	5670	10.361			
15067-26-2	Acenaphthene-d10	2990	14.234			
1517-22-2	Phenanthrene-d10	5390	16.984			
1719-03-5	Chrysene-d12	3450	21.188			
1520-96-3	Perylene-d12	3180	23.38			

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:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-11A-13.5-060525MSD	SDG No.:	Q2250
Lab Sample ID:	Q2250-03MSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037193.D	1	06/06/25 11:54	06/09/25 15:47	PB168336

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
123-91-1	1,4-Dioxane	3.30		0.070	0.20	ug/L
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		30 (20) - 150 (139)	75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 (54) - 150 (157)	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		30 (27) - 130 (154)	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		30 (30) - 130 (155)	86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		30 (54) - 130 (175)	113%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2170	7.59			
1146-65-2	Naphthalene-d8	5650	10.362			
15067-26-2	Acenaphthene-d10	2930	14.235			
1517-22-2	Phenanthrene-d10	5140	16.984			
1719-03-5	Chrysene-d12	3420	21.18			
1520-96-3	Perylene-d12	3340	23.374			

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
Instrument ID: BNA_N Calibration Date(s): 06/03/2025 06/03/2025
Calibration Time(s): 11:39 15:14

LAB FILE ID:		RRF0.1 = BN037143.D			RRF0.2 = BN037144.D		RRF0.4 = BN037145.D	
		RRF0.8 = BN037146.D			RRF1.6 = BN037147.D		RRF3.2 = BN037148.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.520	0.515	0.562	0.536	0.598	0.577	0.557	6.0
Fluoranthene-d10	0.969	0.937	0.975	0.956	1.092	1.071	1.016	7.2
2-Fluorophenol	1.027	1.017	0.940	0.945	1.036	0.984	0.989	3.9
Phenol-d6	1.156	1.144	1.127	1.126	1.293	1.261	1.199	6.4
Nitrobenzene-d5	0.393	0.383	0.421	0.407	0.455	0.450	0.422	6.9
2-Fluorobiphenyl	1.722	1.691	1.626	1.654	1.814	1.706	1.705	3.5
2,4,6-Tribromophenol	0.124	0.147	0.146	0.157	0.185	0.182	0.161	15.0
Terphenyl-d14	0.964	0.909	0.896	0.941	1.006	0.952	0.942	4.0
1,4-Dioxane	0.598	0.657	0.510	0.506	0.526	0.477	0.533	13.2

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
 Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 10:54
 Lab File ID: BN037189.D Init. Calib. Date(s): 06/03/2025 06/03/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.558		0.2	20.0
Fluoranthene-d10	1.016	0.960		-5.5	20.0
2-Fluorophenol	0.989	0.924		-6.6	20.0
Phenol-d6	1.199	1.124		-6.3	20.0
Nitrobenzene-d5	0.422	0.422		0.0	20.0
2-Fluorobiphenyl	1.705	1.691		-0.8	20.0
2,4,6-Tribromophenol	0.161	0.142		-11.8	20.0
Terphenyl-d14	0.942	0.909		-3.5	20.0
1,4-Dioxane	0.533	0.519		-2.6	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250 SDG No.: Q2250
 Instrument ID: BNA_N Calibration Date/Time: 06/09/2025 23:11
 Lab File ID: BN037204.D Init. Calib. Date(s): 06/03/2025 06/03/2025
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:39 15:14
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.557	0.554		-0.5	20.0
Fluoranthene-d10	1.016	0.919		-9.5	20.0
2-Fluorophenol	0.989	0.935		-5.5	20.0
Phenol-d6	1.199	1.161		-3.2	20.0
Nitrobenzene-d5	0.422	0.423		0.2	20.0
2-Fluorobiphenyl	1.705	1.685		-1.2	20.0
2,4,6-Tribromophenol	0.161	0.151		-6.2	20.0
Terphenyl-d14	0.942	0.919		-2.4	20.0
1,4-Dioxane	0.533	0.495		-7.1	20.0

All other compounds must meet a minimum RRF of 0.010.



SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037191.D
 Acq On : 09 Jun 2025 12:06
 Operator : RC/JU
 Sample : Q2250-01
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-11A-13.5-060525

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jun 09 12:29:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

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

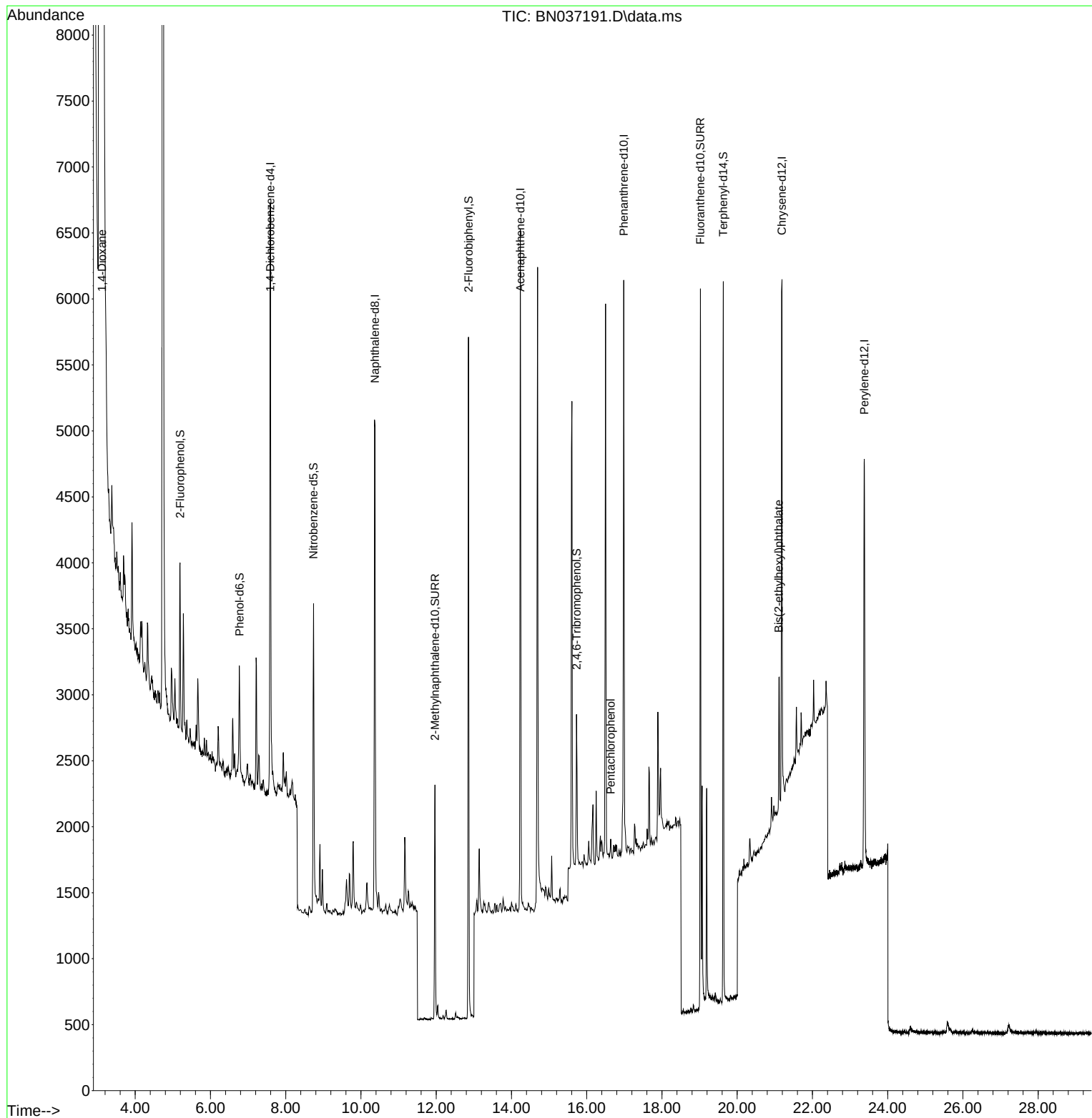
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	2013	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	5108	0.400	ng	0.00
13) Acenaphthene-d10	14.234	164	2790	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	5354	0.400	ng	0.00
29) Chrysene-d12	21.189	240	4077	0.400	ng	0.00
35) Perylene-d12	23.377	264	4054	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	923	0.185	ng	0.00
5) Phenol-d6	6.773	99	681	0.113	ng	0.00
8) Nitrobenzene-d5	8.739	82	1925	0.357	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2472	0.348	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	555	0.494	ng	-0.01
15) 2-Fluorobiphenyl	12.858	172	4624	0.389	ng	0.00
27) Fluoranthene-d10	19.021	212	6130	0.451	ng	0.00
31) Terphenyl-d14	19.630	244	4973	0.518	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.119	88	6136	2.287	ng	# 92
24) Pentachlorophenol	16.636	266	91	0.255	ng	# 82
34) Bis(2-ethylhexyl)phtha...	21.108	149	1167	0.125	ng	97

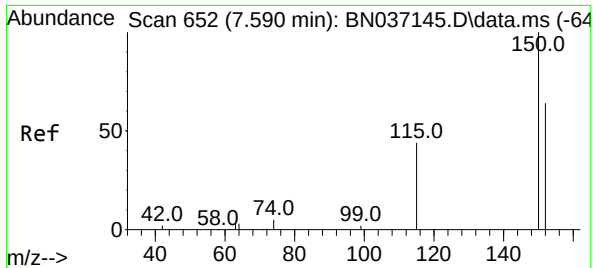
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037191.D
Acq On : 09 Jun 2025 12:06
Operator : RC/JU
Sample : Q2250-01
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

Quant Time: Jun 09 12:29:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

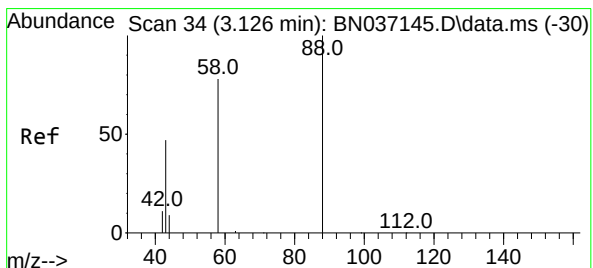
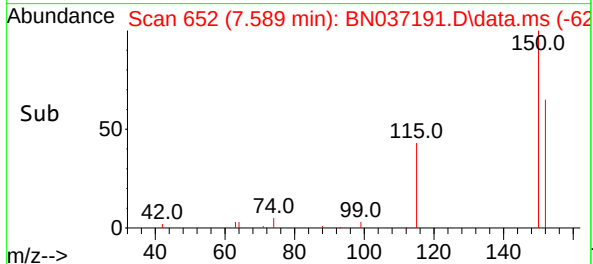
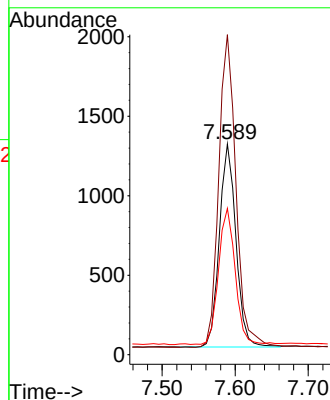
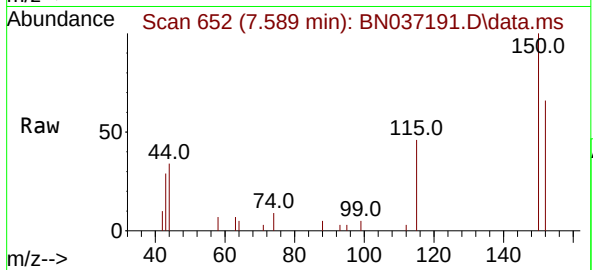




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

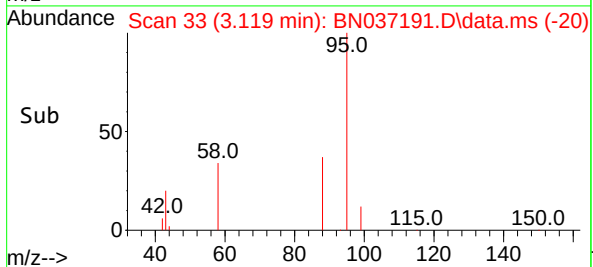
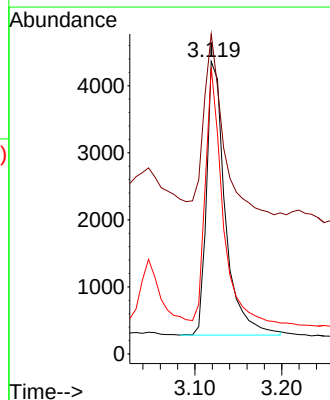
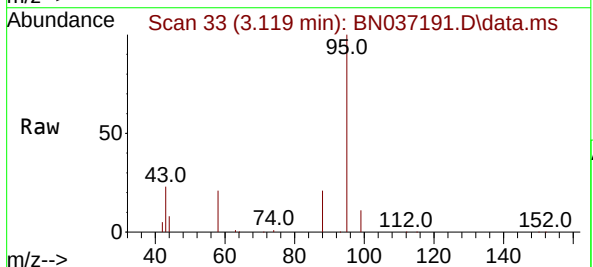
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

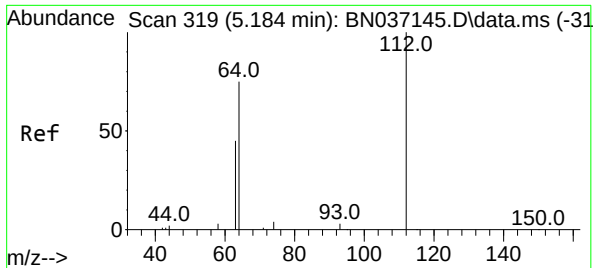
Tgt Ion:152 Resp: 2013
Ion Ratio Lower Upper
152 100
150 151.8 123.2 184.8
115 69.4 56.6 85.0



#2
1,4-Dioxane
Concen: 2.287 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion: 88 Resp: 6136
Ion Ratio Lower Upper
88 100
43 68.0 43.5 65.3#
58 84.8 67.7 101.5

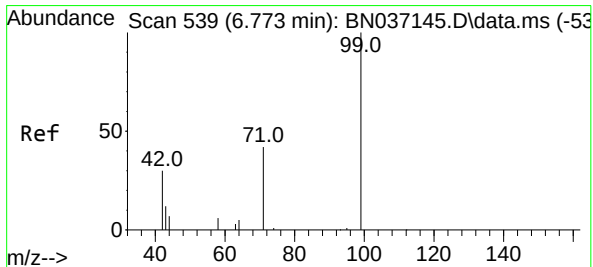
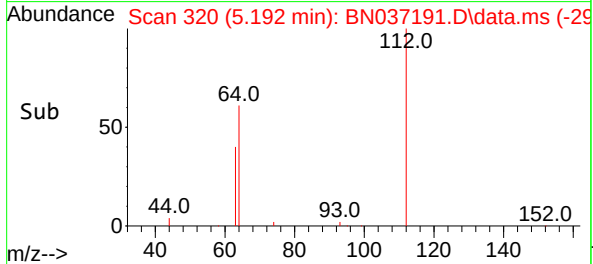
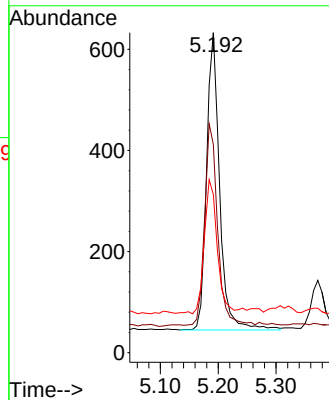
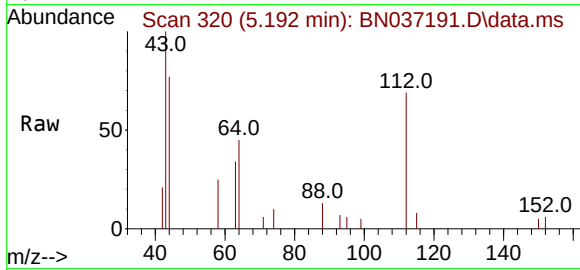




#4
2-Fluorophenol
Concen: 0.185 ng
RT: 5.192 min Scan# 319
Delta R.T. 0.007 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

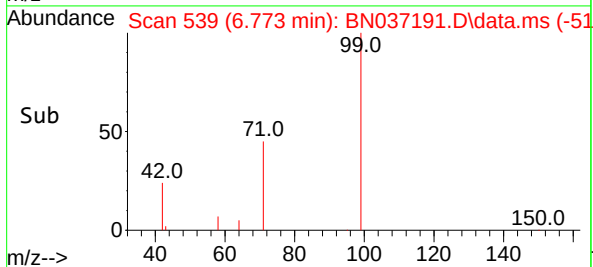
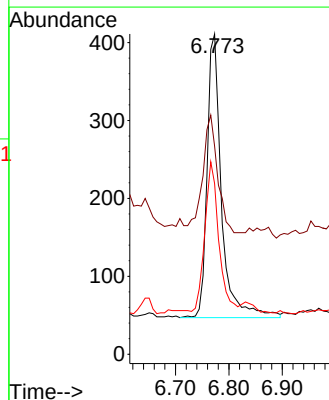
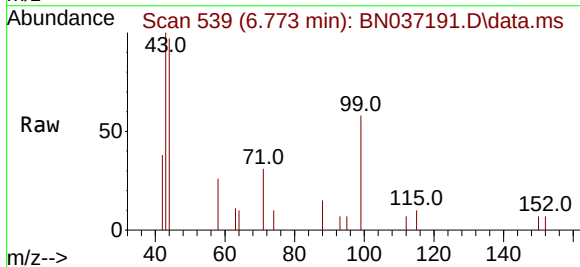
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

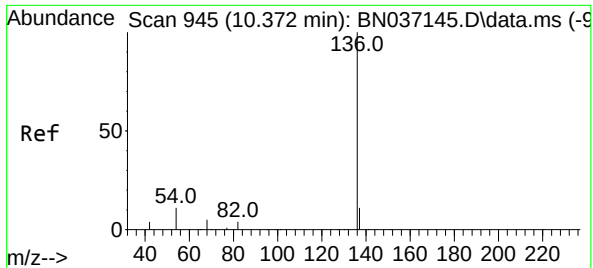
Tgt Ion:	112	Resp:	923
Ion	Ratio	Lower	Upper
112	100		
64	67.2	56.3	84.5
63	44.4	36.2	54.4



#5
Phenol-d6
Concen: 0.113 ng
RT: 6.773 min Scan# 539
Delta R.T. -0.000 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion:	99	Resp:	681
Ion	Ratio	Lower	Upper
99	100		
42	42.9	31.3	46.9
71	52.7	38.2	57.2

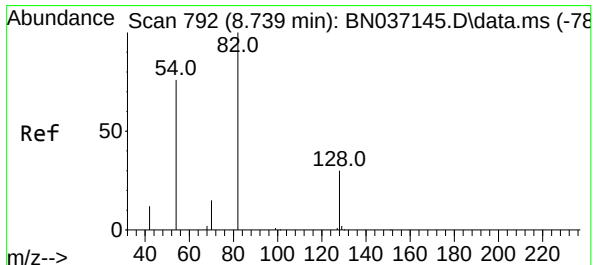
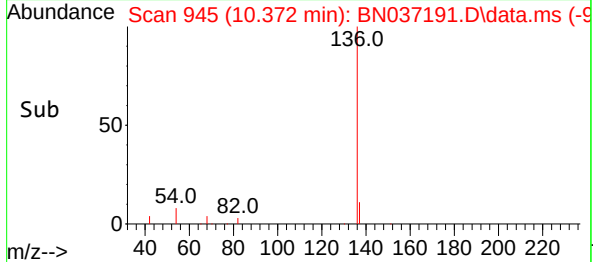
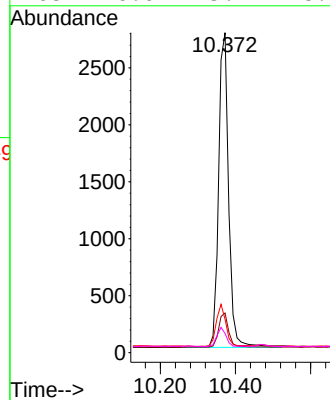
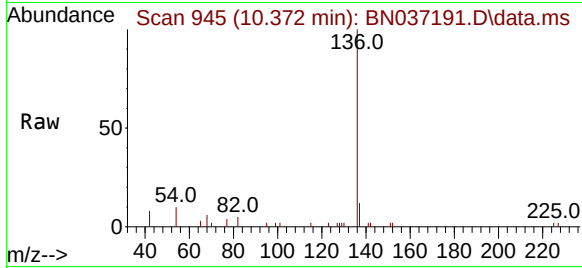




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

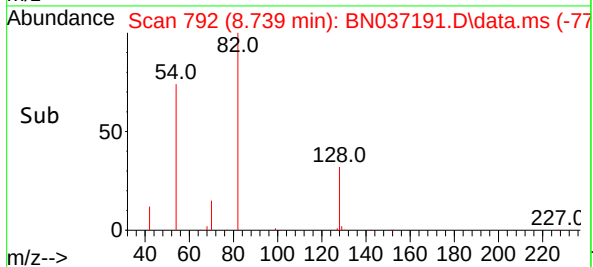
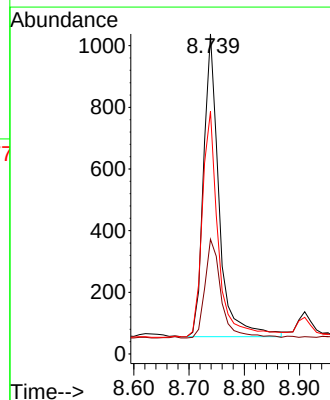
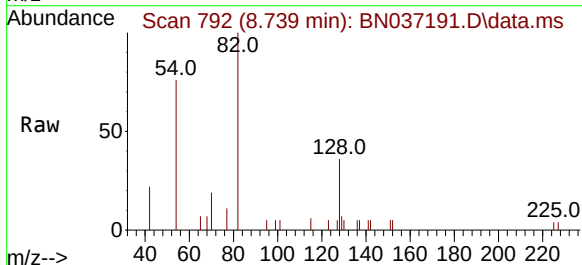
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

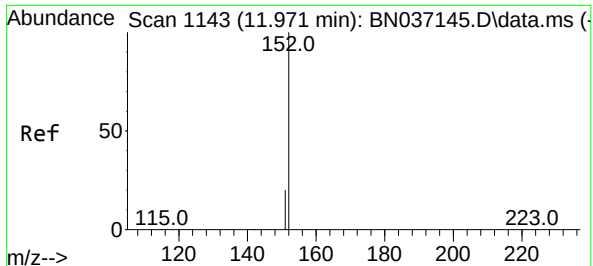
Tgt Ion:	136	Resp:	5108
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	10.5	9.7	14.5
68	6.0	5.4	8.2



#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion:	82	Resp:	1925
Ion	Ratio	Lower	Upper
82	100		
128	35.8	26.9	40.3
54	75.8	61.4	92.2

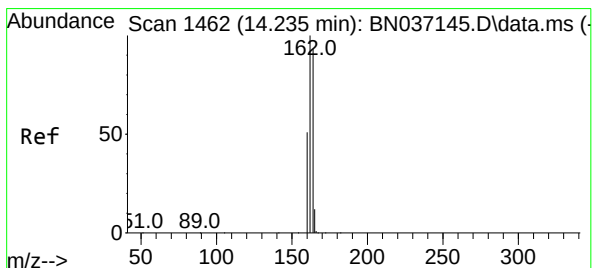
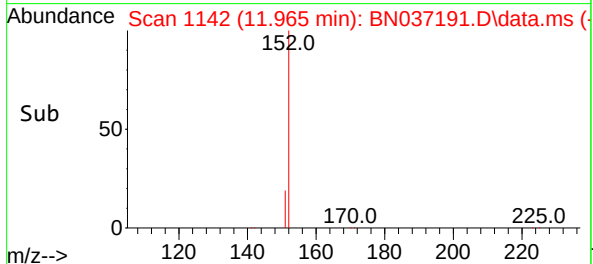
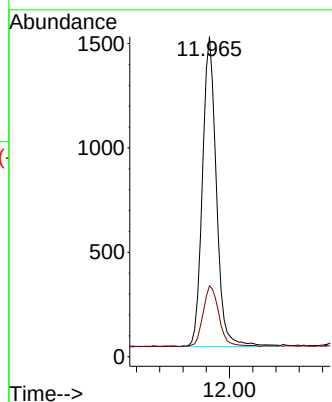
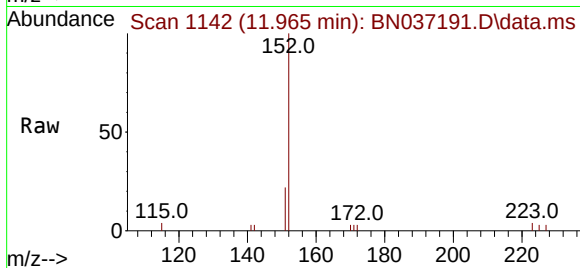




#11
2-Methylnaphthalene-d10
Concen: 0.348 ng
RT: 11.965 min Scan# 1143
Delta R.T. -0.005 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

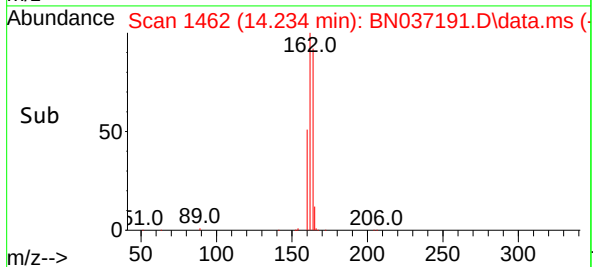
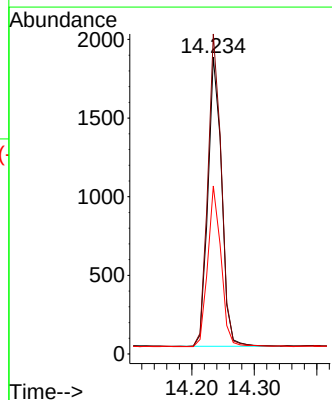
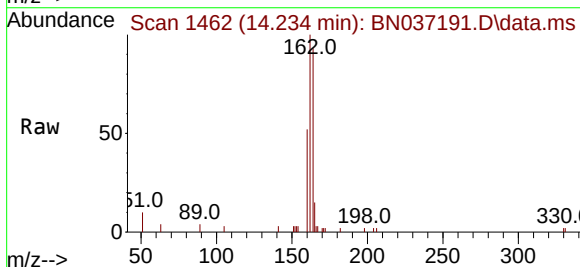
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

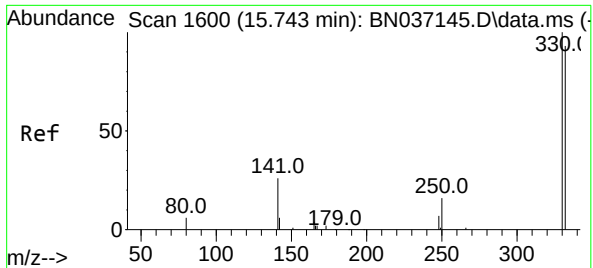
Tgt Ion:152 Resp: 2472
Ion Ratio Lower Upper
152 100
151 22.3 17.1 25.7



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion:164 Resp: 2790
Ion Ratio Lower Upper
164 100
162 107.7 85.5 128.3
160 56.5 44.6 67.0

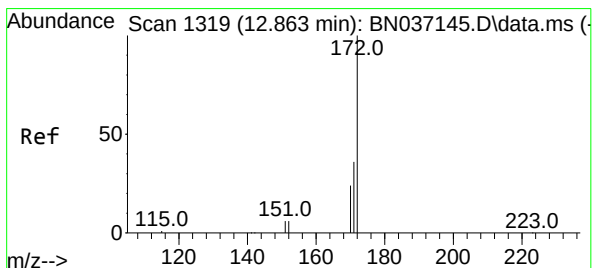
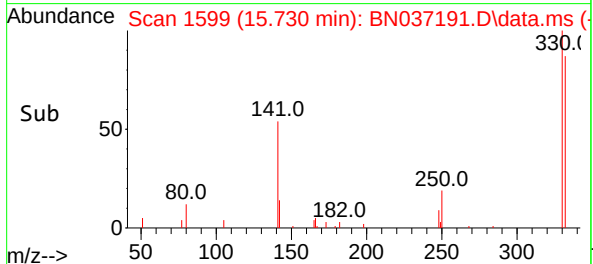
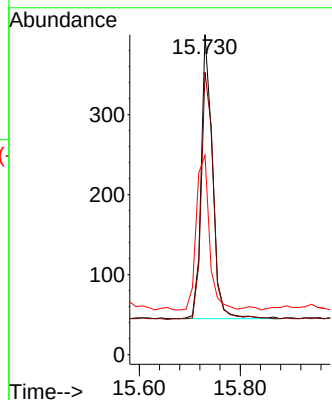
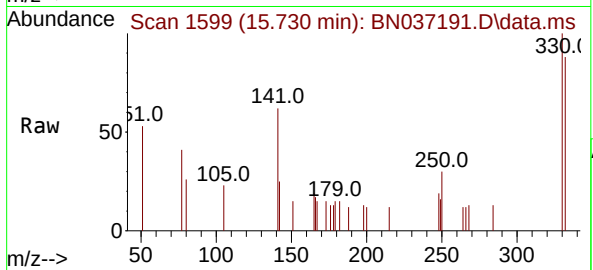




#14
2,4,6-Tribromophenol
Concen: 0.494 ng
RT: 15.730 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

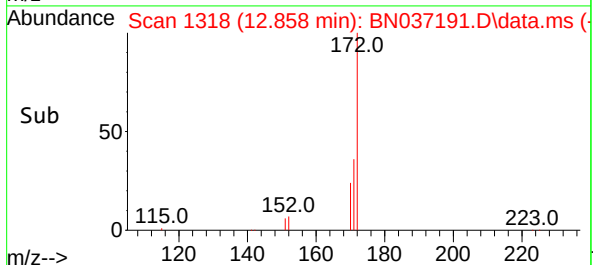
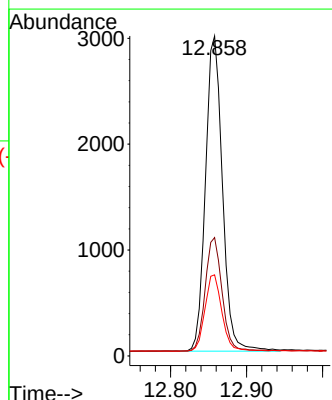
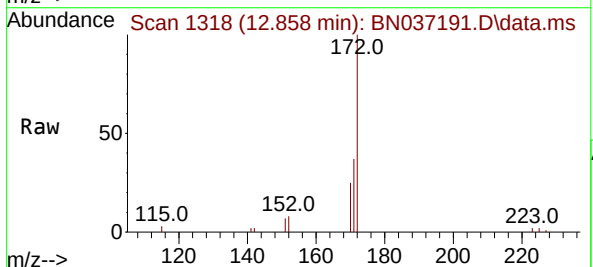
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

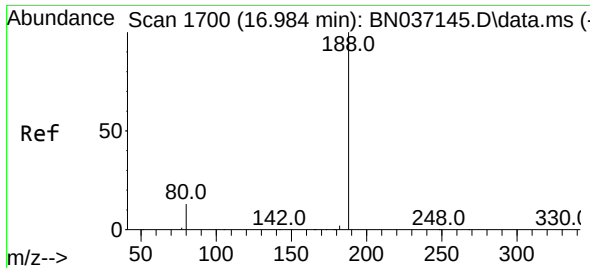
Tgt Ion:330 Resp: 555
Ion Ratio Lower Upper
330 100
332 95.0 77.1 115.7
141 62.9 46.4 69.6



#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.858 min Scan# 1318
Delta R.T. -0.005 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion:172 Resp: 4624
Ion Ratio Lower Upper
172 100
171 37.0 29.6 44.4
170 25.3 20.3 30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037191.D

Acq: 09 Jun 2025 12:06

Instrument :

BNA_N

ClientSampleId :

MW-11A-13.5-060525

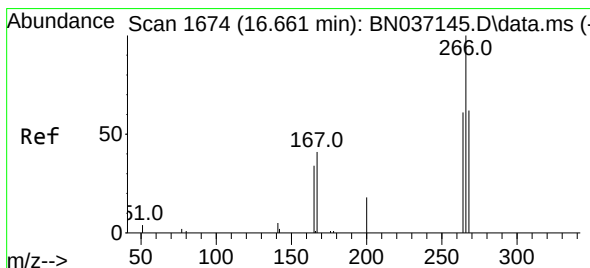
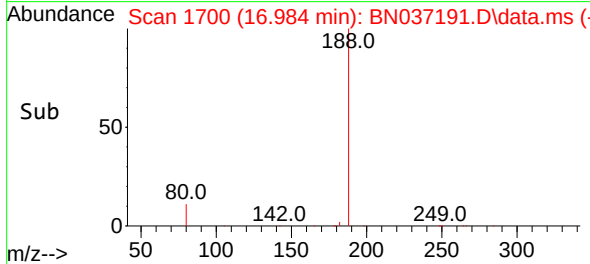
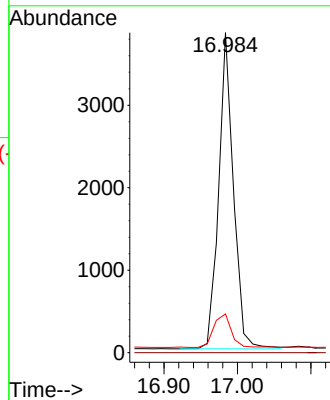
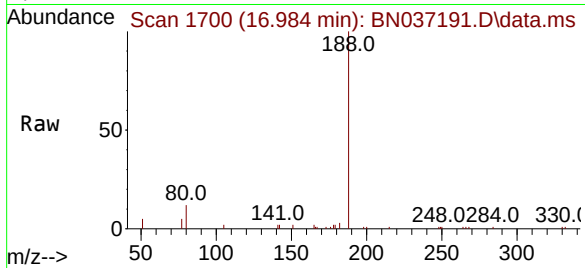
Tgt Ion:188 Resp: 5354

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 11.3 16.9



#24

Pentachlorophenol

Concen: 0.255 ng

RT: 16.636 min Scan# 1672

Delta R.T. -0.025 min

Lab File: BN037191.D

Acq: 09 Jun 2025 12:06

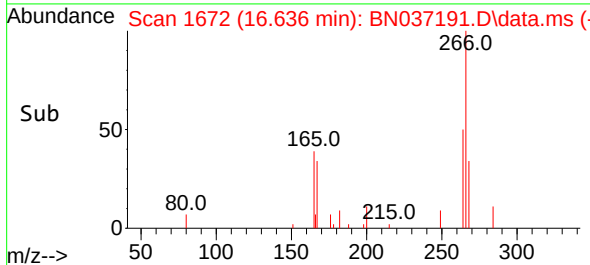
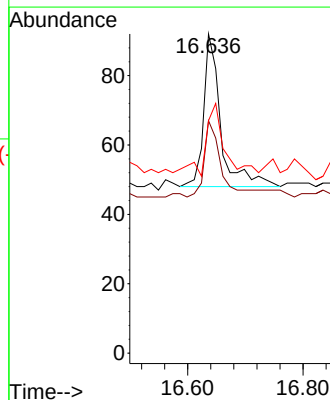
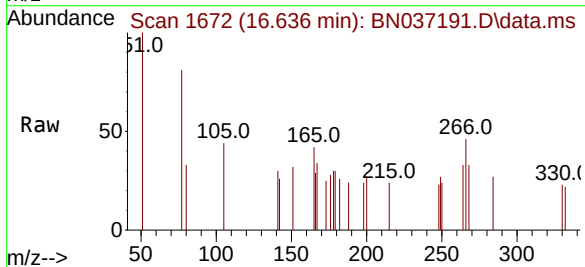
Tgt Ion:266 Resp: 91

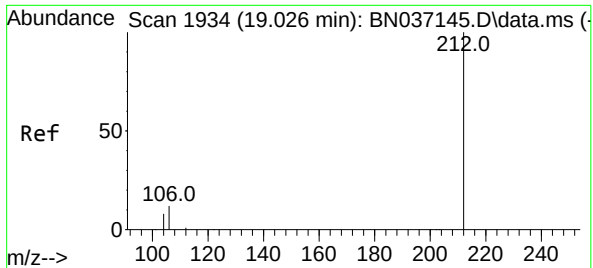
Ion Ratio Lower Upper

266 100

264 48.4 49.3 73.9#

268 46.2 49.0 73.4#

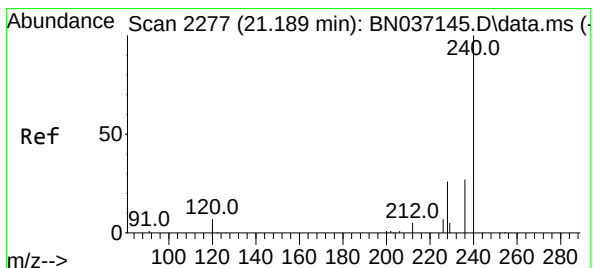
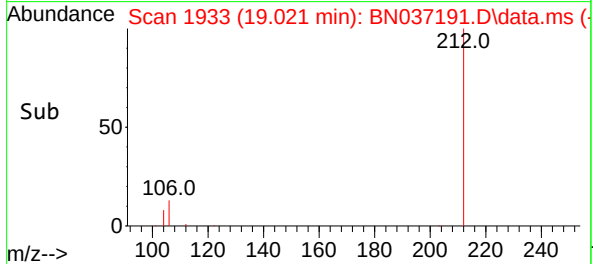
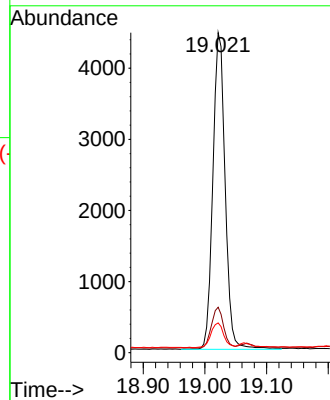
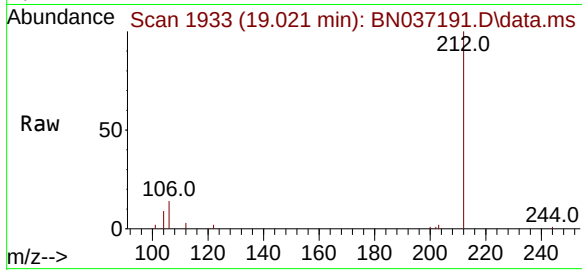




#27
Fluoranthene-d10
Concen: 0.451 ng
RT: 19.021 min Scan# 1933
Delta R.T. -0.005 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

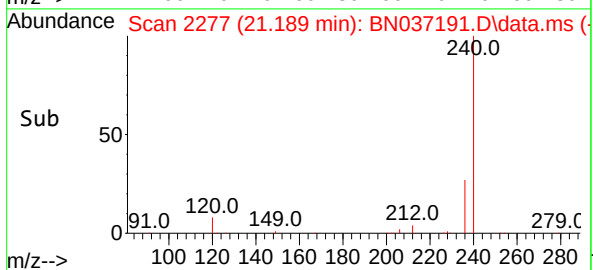
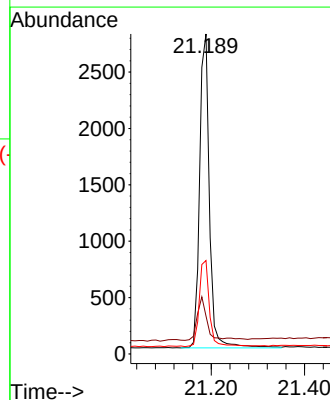
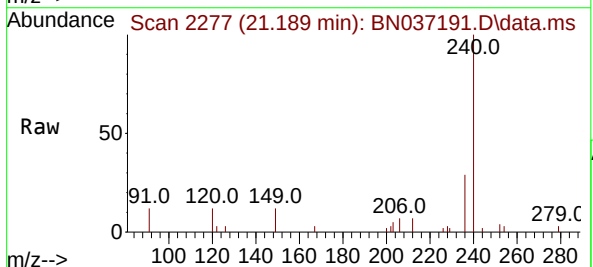
Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

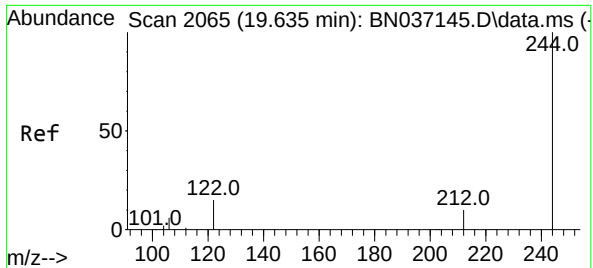
Tgt Ion:212	Resp:	6130
Ion Ratio	Lower	Upper
212	100	
106	12.6	10.6 15.8
104	8.2	6.6 9.8



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 2277
Delta R.T. -0.000 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

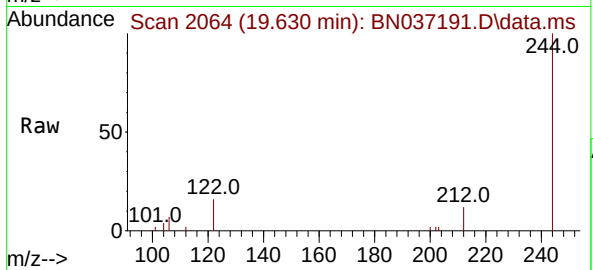
Tgt Ion:240	Resp:	4077
Ion Ratio	Lower	Upper
240	100	
120	11.8	9.0 13.4
236	29.2	23.0 34.4



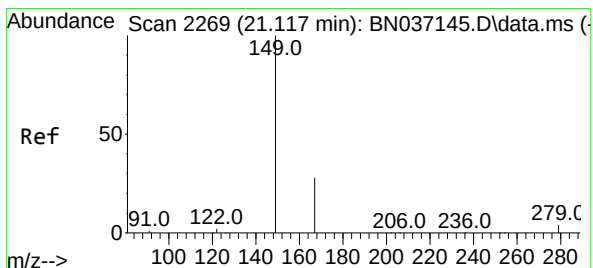
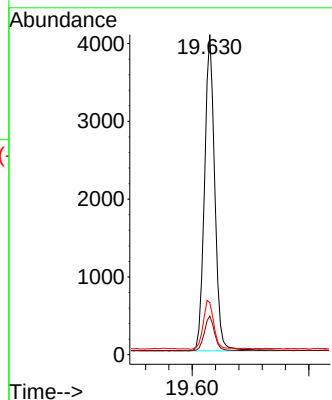
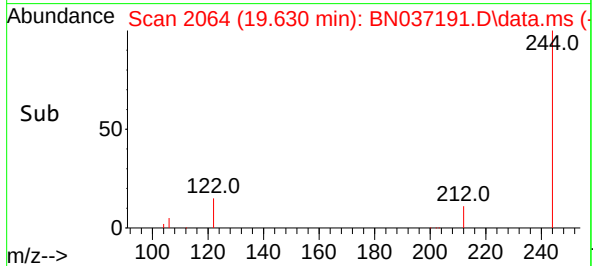


#31
Terphenyl-d14
Concen: 0.518 ng
RT: 19.630 min Scan# 2065
Delta R.T. -0.005 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525

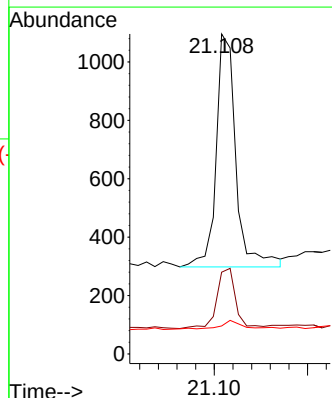
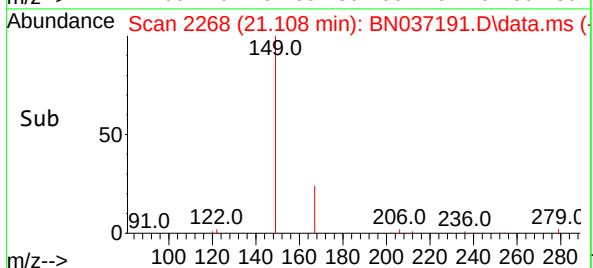
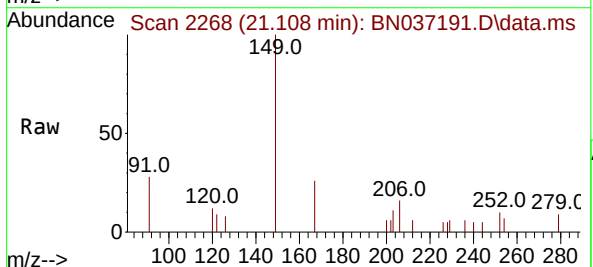


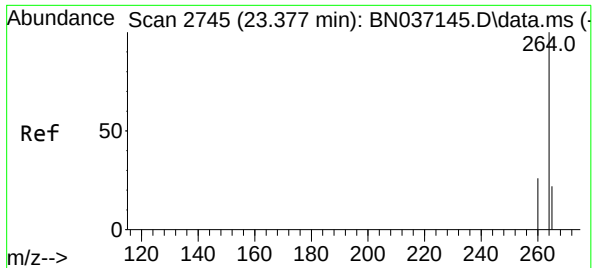
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.1	10.0	15.0
122	16.3	13.2	19.8



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.125 ng
RT: 21.108 min Scan# 2268
Delta R.T. -0.009 min
Lab File: BN037191.D
Acq: 09 Jun 2025 12:06

Tgt Ion	Ratio	Lower	Upper
149	100		
167	24.7	21.0	31.4
279	3.3	2.9	4.3





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.377 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037191.D

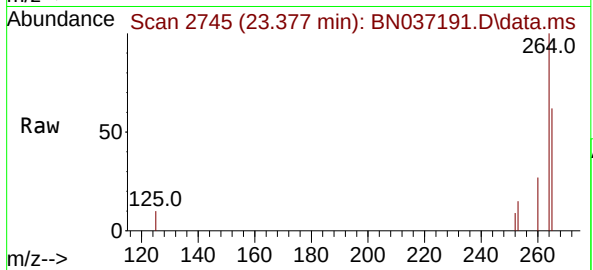
Acq: 09 Jun 2025 12:06

Instrument :

BNA_N

ClientSampleId :

MW-11A-13.5-060525



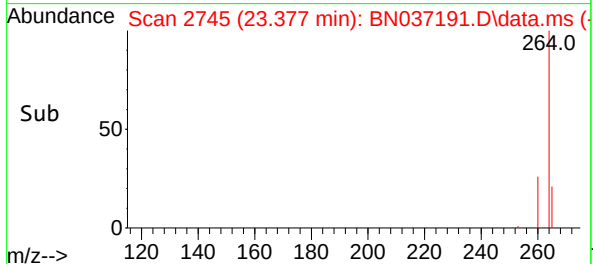
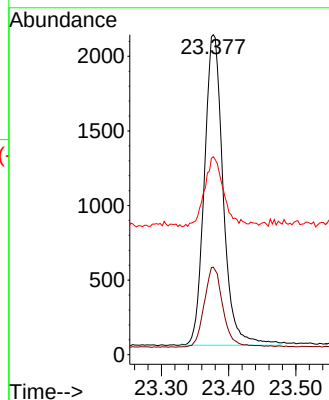
Tgt Ion:264 Resp: 4054

Ion Ratio Lower Upper

264 100

260 27.4 22.1 33.1

265 61.9 55.8 83.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037210.D
 Acq On : 10 Jun 2025 02:49
 Operator : RC/JU
 Sample : Q2250-04
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-06-6.5-060525

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jun 10 04:06:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

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

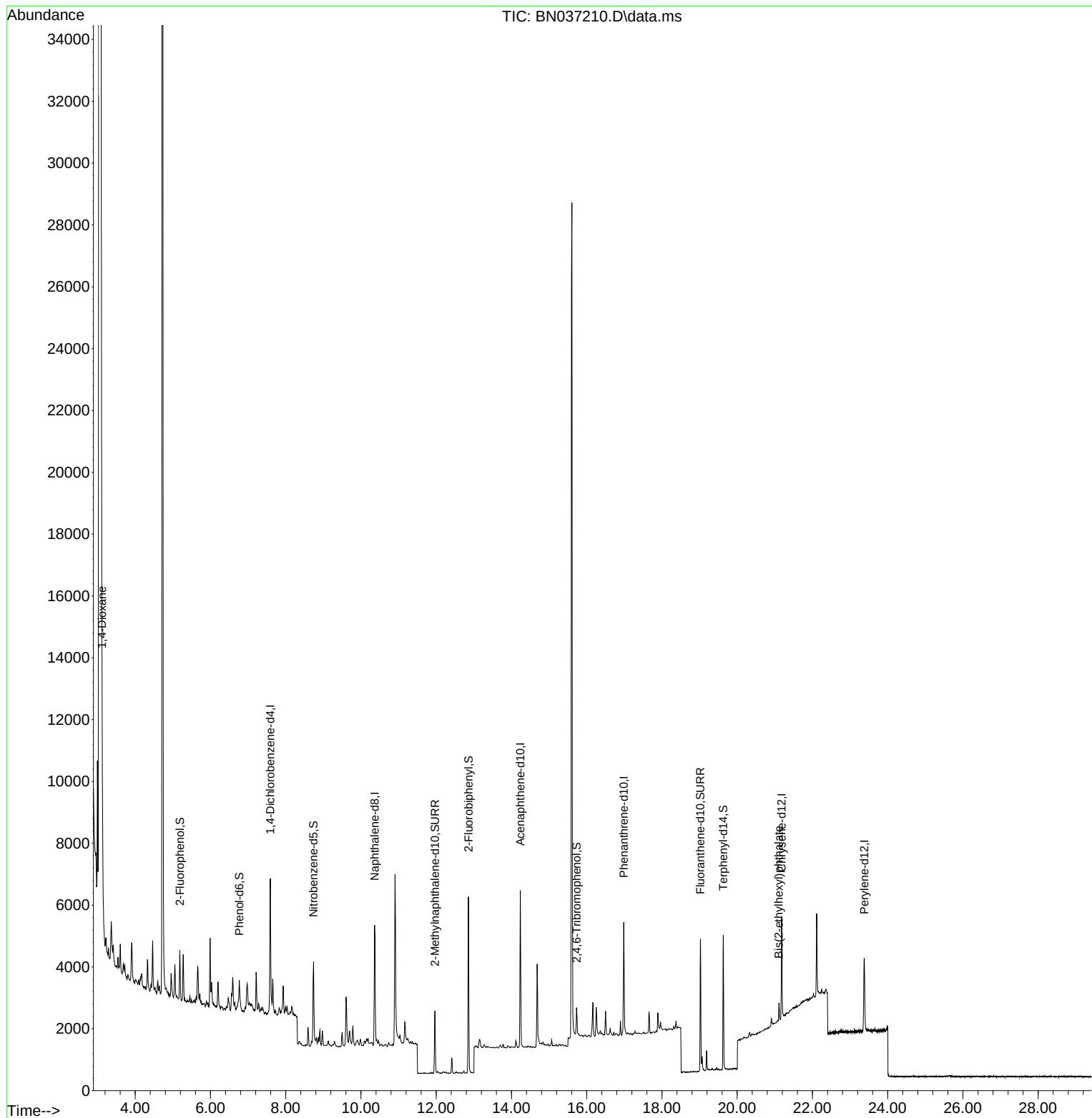
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	1975	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	5099	0.400	ng	#-0.01
13) Acenaphthene-d10	14.234	164	2655	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	4633	0.400	ng	0.00
29) Chrysene-d12	21.180	240	3167	0.400	ng	# 0.00
35) Perylene-d12	23.374	264	3104	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	1003	0.205	ng	0.00
5) Phenol-d6	6.766	99	706	0.119	ng	0.00
8) Nitrobenzene-d5	8.739	82	2235	0.415	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2730	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	460	0.430	ng	-0.01
15) 2-Fluorobiphenyl	12.858	172	4957	0.438	ng	0.00
27) Fluoranthene-d10	19.021	212	4756	0.404	ng	0.00
31) Terphenyl-d14	19.630	244	4038	0.542	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.119	88	206	0.078	ng	# 1
34) Bis(2-ethylhexyl)phtha...	21.108	149	558	0.077	ng	# 95

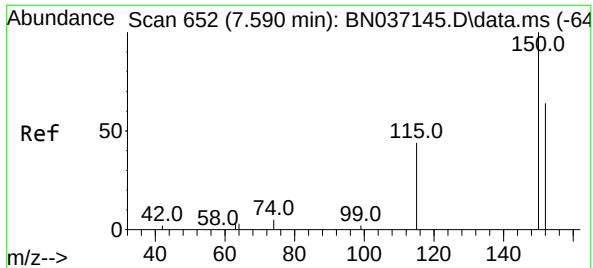
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037210.D
Acq On : 10 Jun 2025 02:49
Operator : RC/JU
Sample : Q2250-04
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

Quant Time: Jun 10 04:06:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

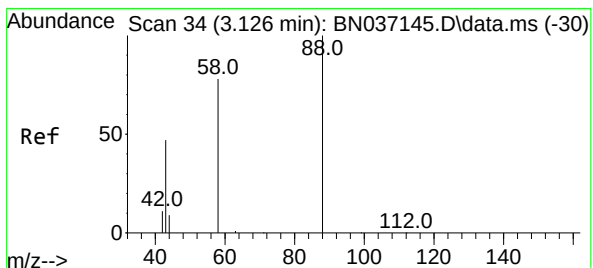
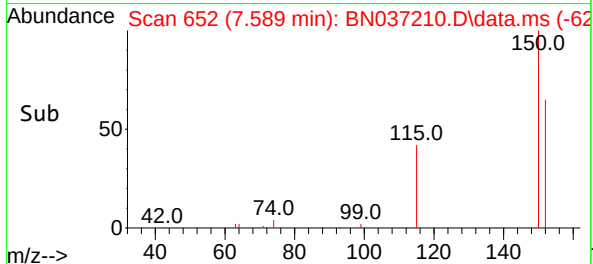
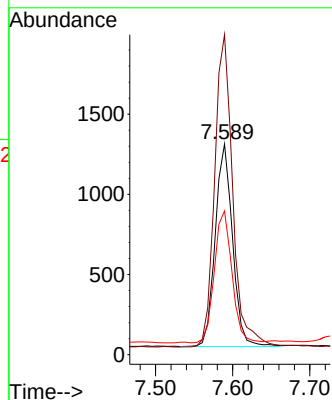
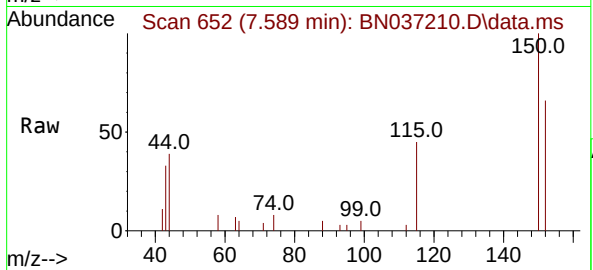




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

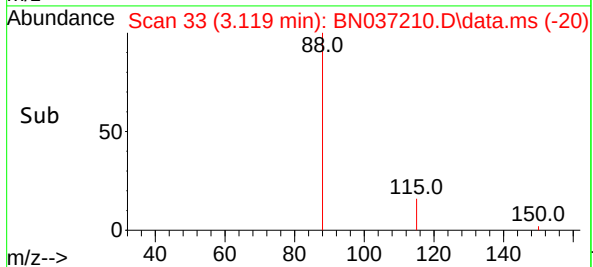
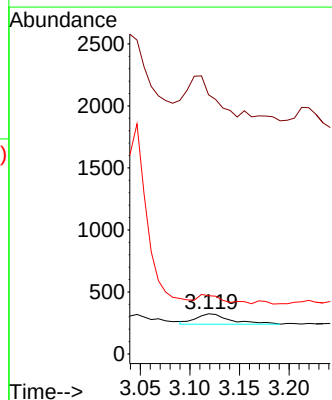
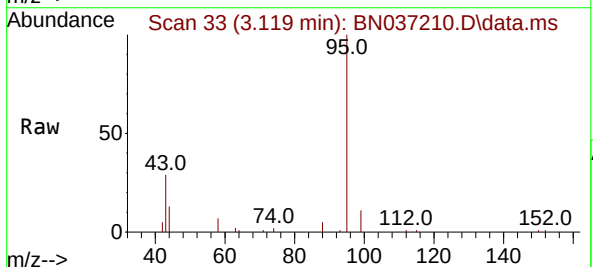
Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

Tgt Ion:152 Resp: 1975
Ion Ratio Lower Upper
152 100
150 151.9 123.2 184.8
115 68.2 56.6 85.0

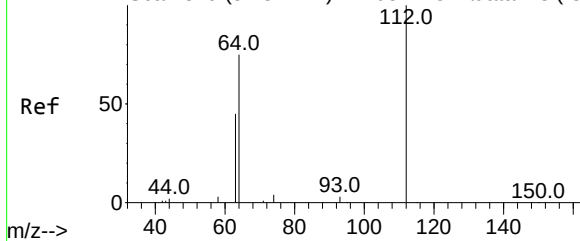


#2
1,4-Dioxane
Concen: 0.078 ng
RT: 3.119 min Scan# 33
Delta R.T. -0.007 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

Tgt Ion: 88 Resp: 206
Ion Ratio Lower Upper
88 100
43 411.2 43.5 65.3#
58 58.3 67.7 101.5#



Abundance Scan 319 (5.184 min): BN037145.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.205 ng

RT: 5.184 min Scan# 319

Delta R.T. -0.000 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

Instrument :

BNA_N

ClientSampleId :

MW-06-6.5-060525

Tgt Ion:112 Resp: 1003

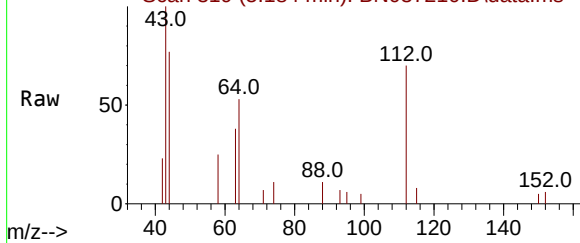
Ion Ratio Lower Upper

112 100

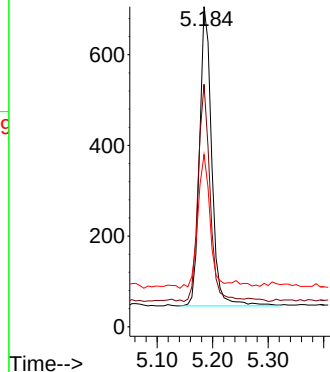
64 70.8 56.3 84.5

63 44.8 36.2 54.4

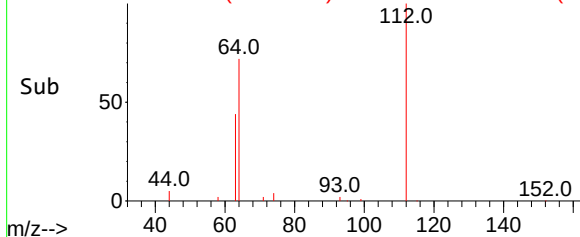
Abundance Scan 319 (5.184 min): BN037210.D\data.ms



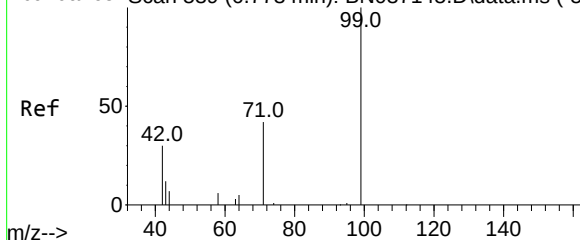
Abundance



Abundance Scan 319 (5.184 min): BN037210.D\data.ms (-29



Abundance Scan 539 (6.773 min): BN037145.D\data.ms (-53



#5

Phenol-d6

Concen: 0.119 ng

RT: 6.766 min Scan# 538

Delta R.T. -0.007 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

Tgt Ion: 99 Resp: 706

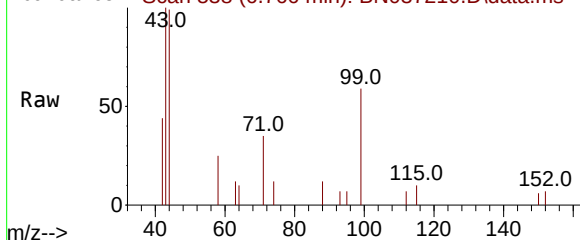
Ion Ratio Lower Upper

99 100

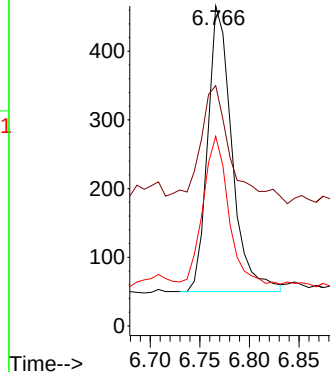
42 52.7 31.3 46.9#

71 54.8 38.2 57.2

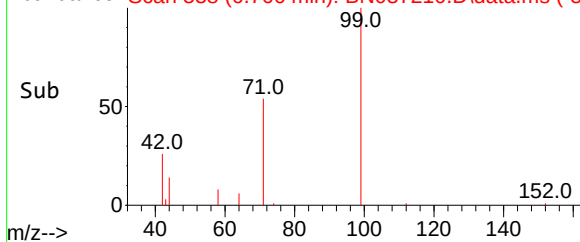
Abundance Scan 538 (6.766 min): BN037210.D\data.ms

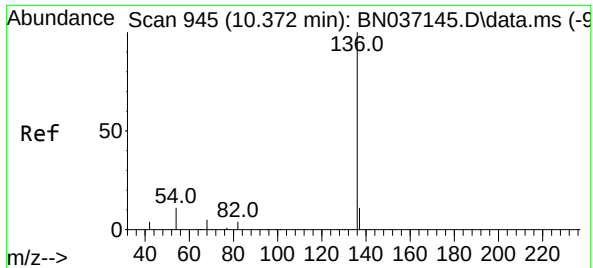


Abundance



Abundance Scan 538 (6.766 min): BN037210.D\data.ms (-51

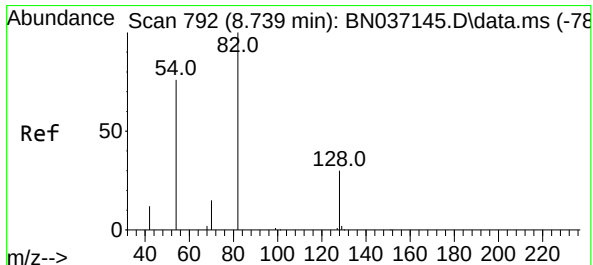
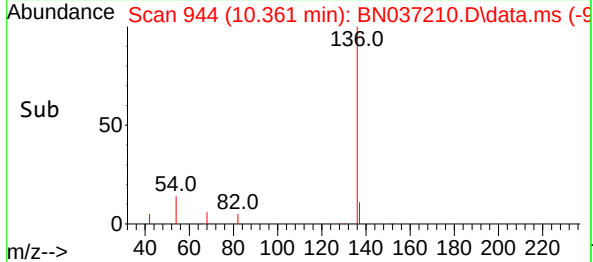
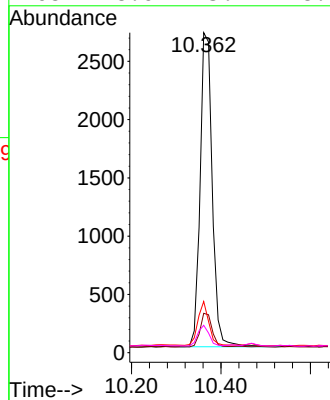
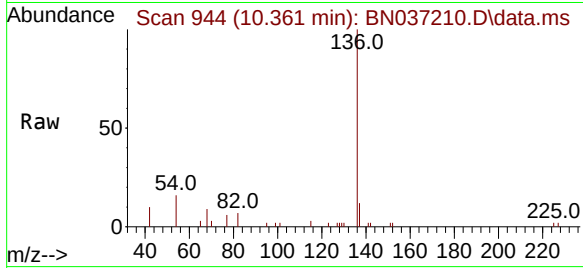




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.361 min Scan# 945
Delta R.T. -0.011 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

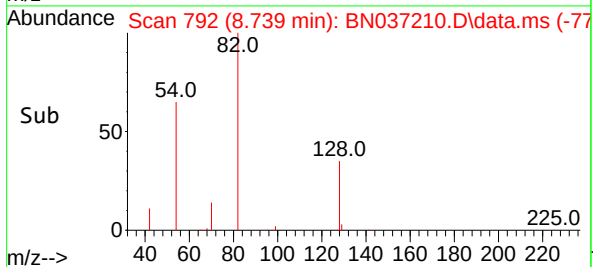
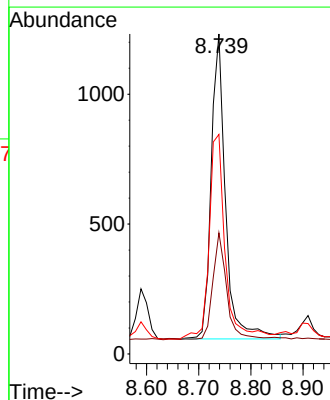
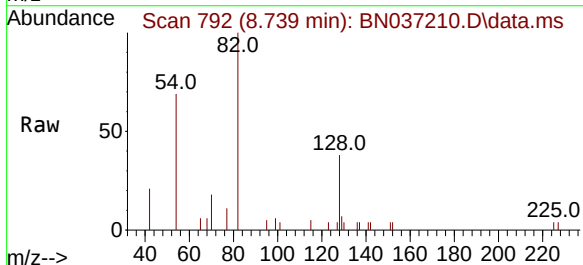
Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

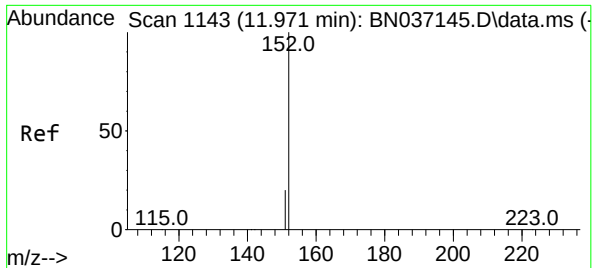
Tgt Ion:	136	Resp:	5099
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	16.0	9.7	14.5#
68	8.6	5.4	8.2#



#8
Nitrobenzene-d5
Concen: 0.415 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

Tgt Ion:	82	Resp:	2235
Ion	Ratio	Lower	Upper
82	100		
128	37.8	26.9	40.3
54	68.6	61.4	92.2

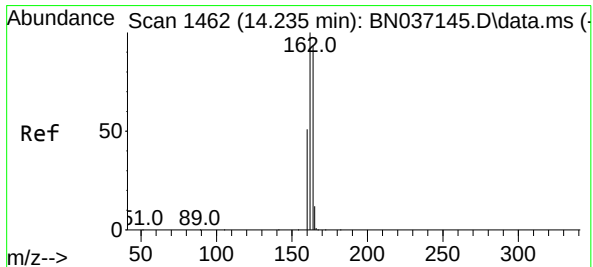
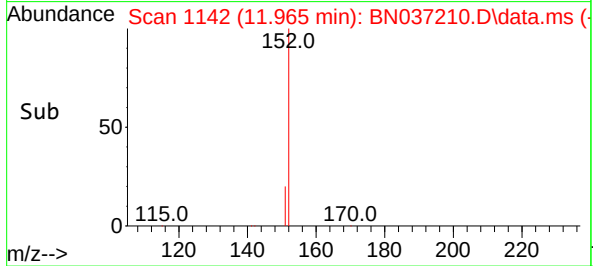
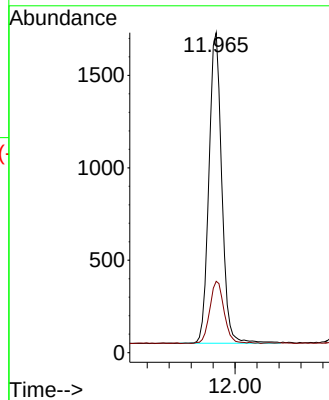
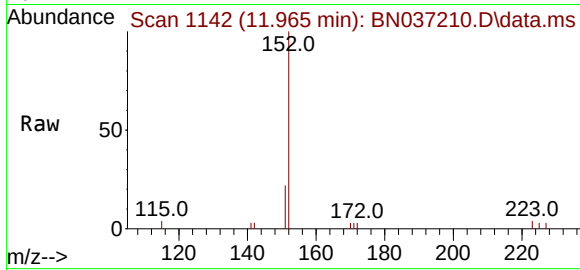




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 11.965 min Scan# 1142
Delta R.T. -0.005 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

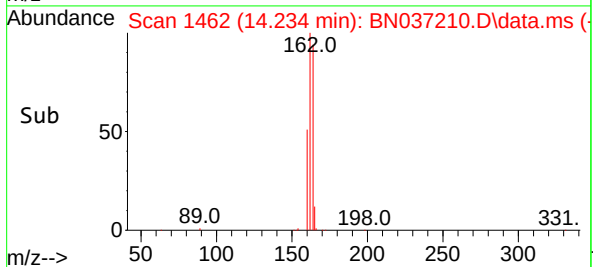
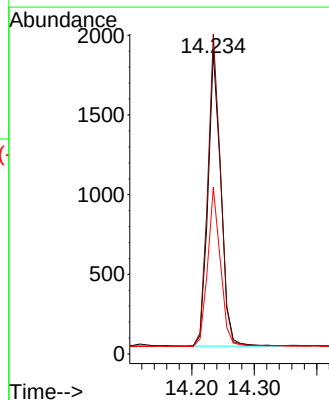
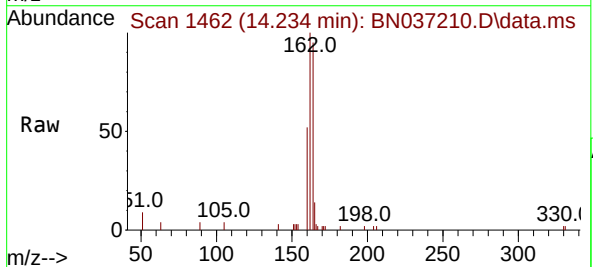
Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

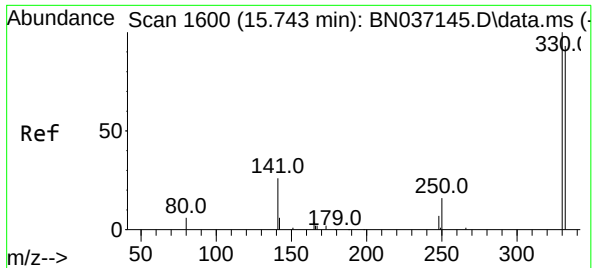
Tgt Ion:152 Resp: 2730
Ion Ratio Lower Upper
152 100
151 22.2 17.1 25.7



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.234 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

Tgt Ion:164 Resp: 2655
Ion Ratio Lower Upper
164 100
162 105.8 85.5 128.3
160 55.1 44.6 67.0

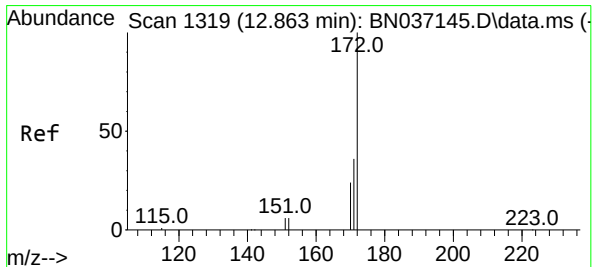
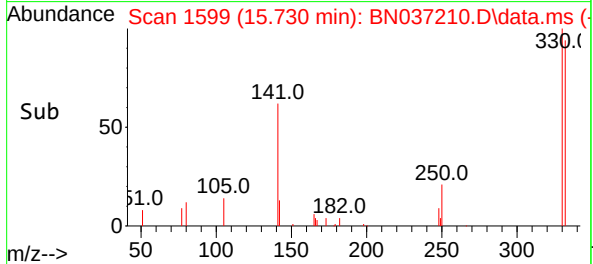
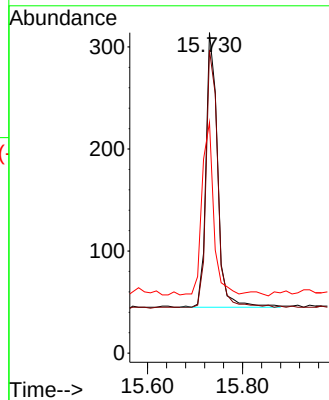
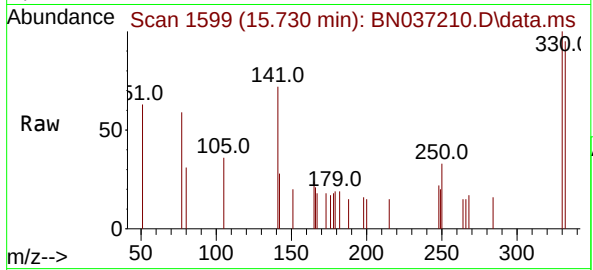




#14
2,4,6-Tribromophenol
Concen: 0.430 ng
RT: 15.730 min Scan# 11
Delta R.T. -0.013 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

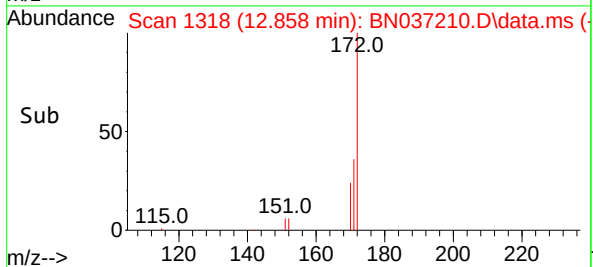
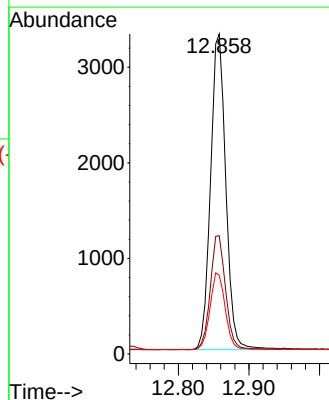
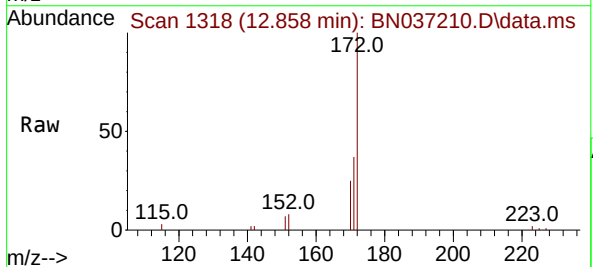
Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

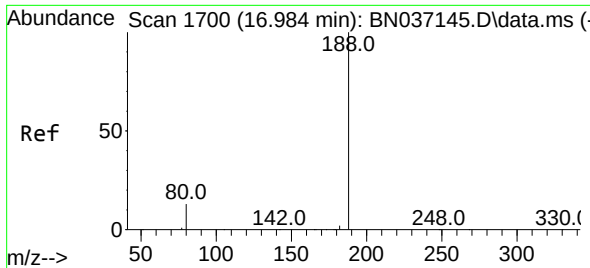
Tgt Ion	330	Resp	460
Ion Ratio	100		
Lower	77.1		
Upper	115.7		



#15
2-Fluorobiphenyl
Concen: 0.438 ng
RT: 12.858 min Scan# 1318
Delta R.T. -0.005 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

Tgt Ion	172	Resp	4957
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	29.6		
Upper	44.4		





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

Instrument :

BNA_N

ClientSampleId :

MW-06-6.5-060525

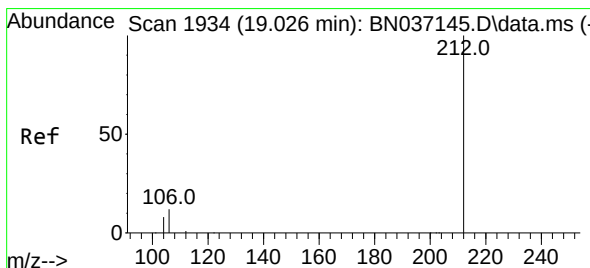
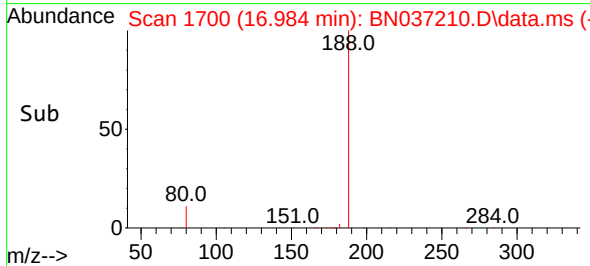
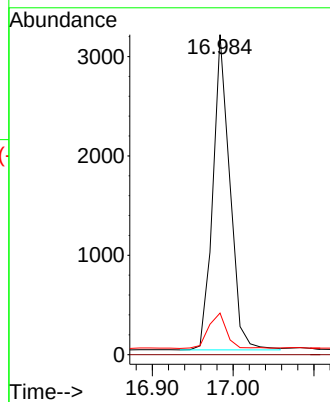
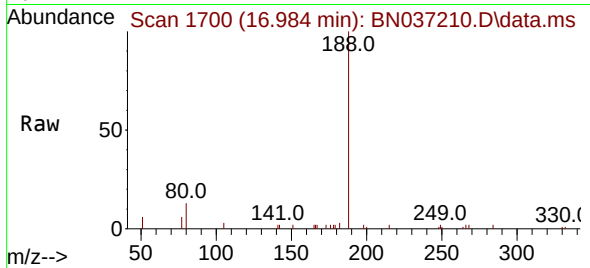
Tgt Ion:188 Resp: 4633

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 11.3 16.9



#27

Fluoranthene-d10

Concen: 0.404 ng

RT: 19.021 min Scan# 1933

Delta R.T. -0.005 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

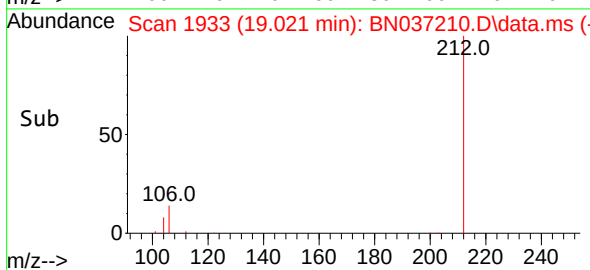
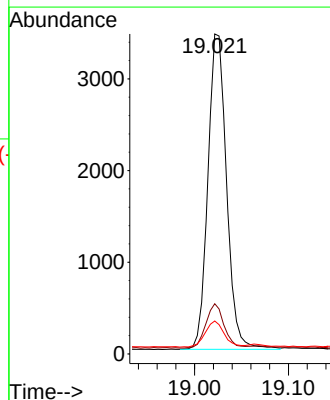
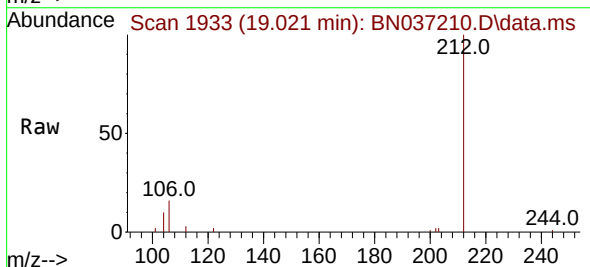
Tgt Ion:212 Resp: 4756

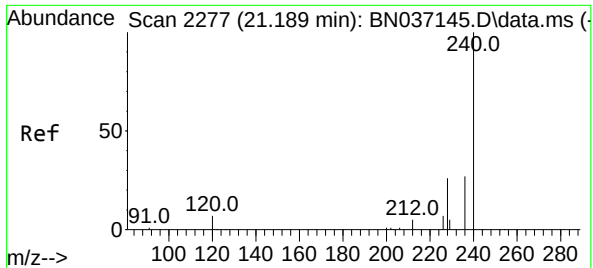
Ion Ratio Lower Upper

212 100

106 13.6 10.6 15.8

104 8.3 6.6 9.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

Instrument :

BNA_N

ClientSampleId :

MW-06-6.5-060525

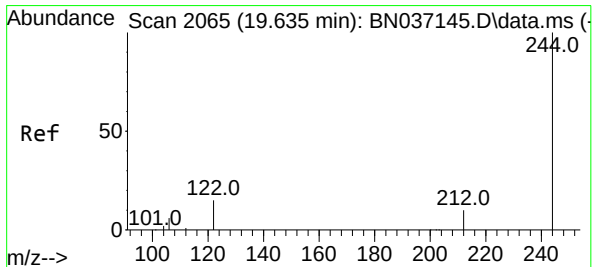
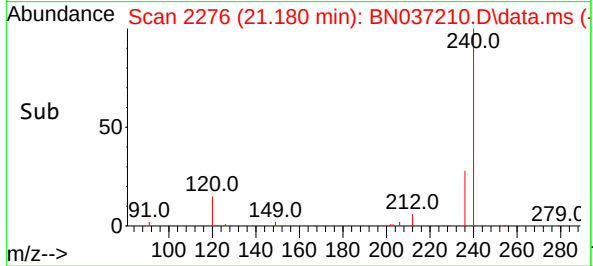
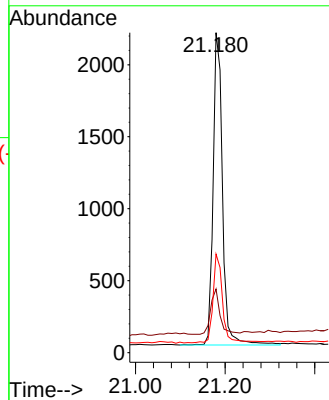
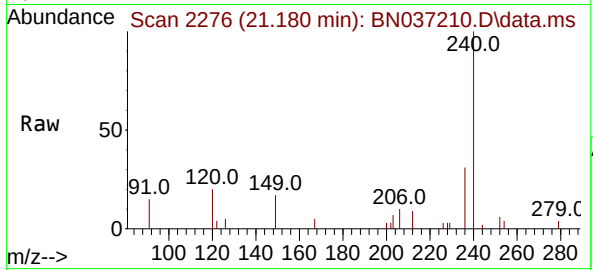
Tgt Ion:240 Resp: 3167

Ion Ratio Lower Upper

240 100

120 19.9 9.0 13.4#

236 30.8 23.0 34.4



#31

Terphenyl-d14

Concen: 0.542 ng

RT: 19.630 min Scan# 2064

Delta R.T. -0.005 min

Lab File: BN037210.D

Acq: 10 Jun 2025 02:49

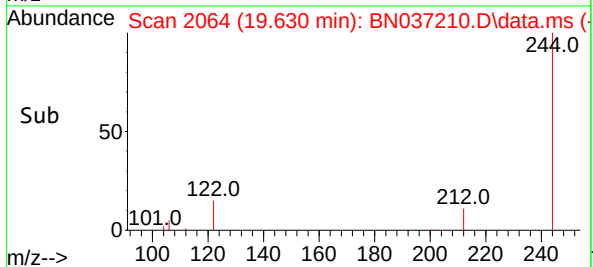
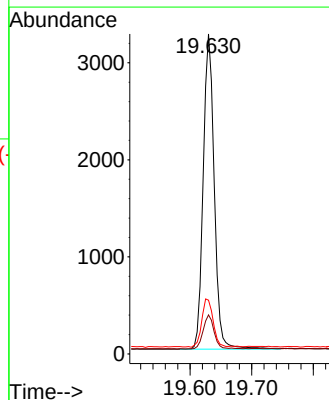
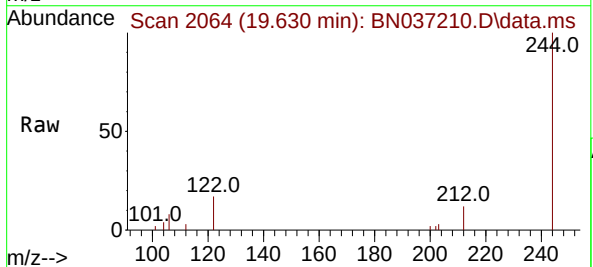
Tgt Ion:244 Resp: 4038

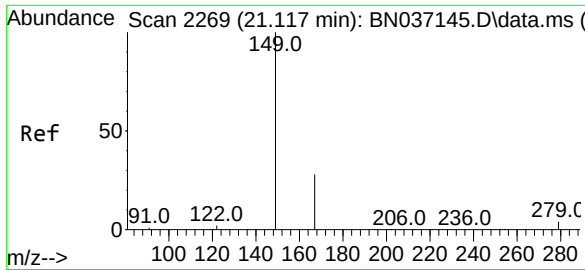
Ion Ratio Lower Upper

244 100

212 12.2 10.0 15.0

122 16.8 13.2 19.8

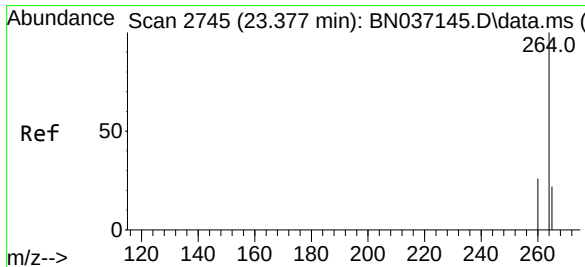
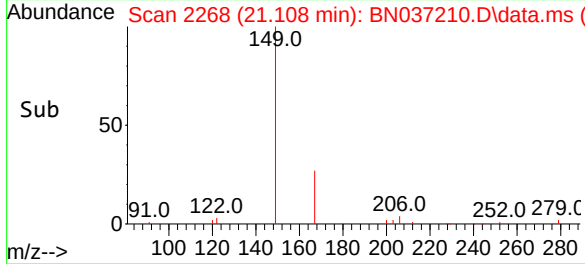
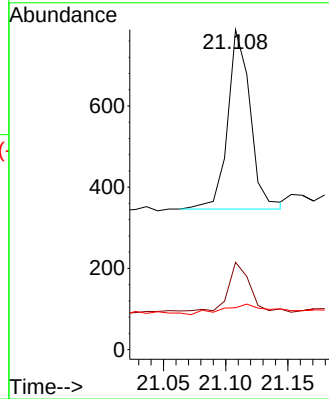
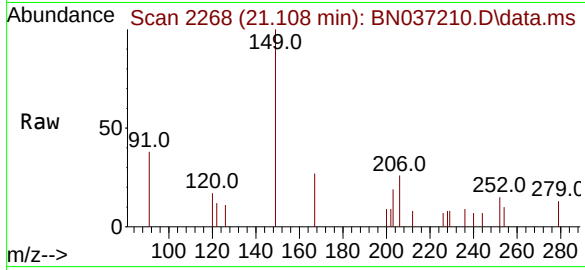




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.077 ng
RT: 21.108 min Scan# 21108
Delta R.T. -0.009 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

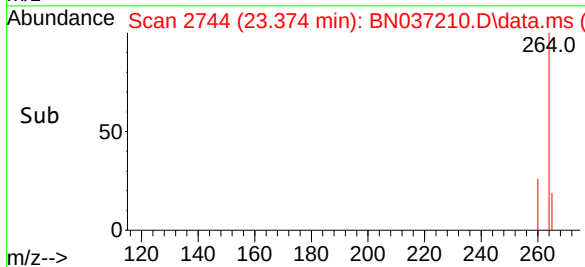
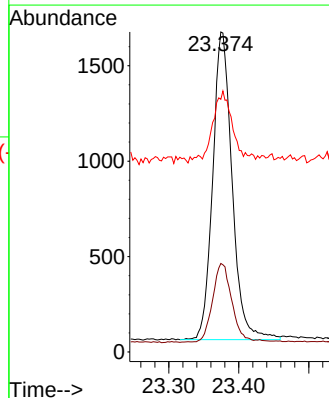
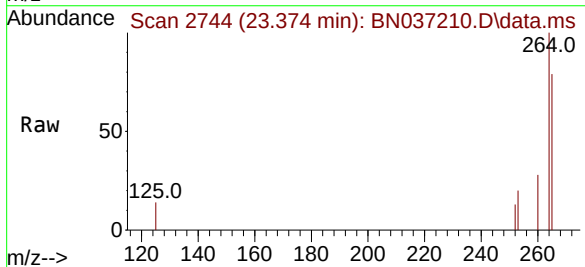
Instrument :
BNA_N
ClientSampleId :
MW-06-6.5-060525

Tgt Ion:149 Resp: 558
Ion Ratio Lower Upper
149 100
167 27.2 21.0 31.4
279 13.4 2.9 4.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.374 min Scan# 2744
Delta R.T. -0.003 min
Lab File: BN037210.D
Acq: 10 Jun 2025 02:49

Tgt Ion:264 Resp: 3104
Ion Ratio Lower Upper
264 100
260 27.7 22.1 33.1
265 79.0 55.8 83.8



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037199.D
 Acq On : 09 Jun 2025 19:27
 Operator : RC/JU
 Sample : Q2250-05
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EB02-060525

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jun 10 04:03:09 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

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

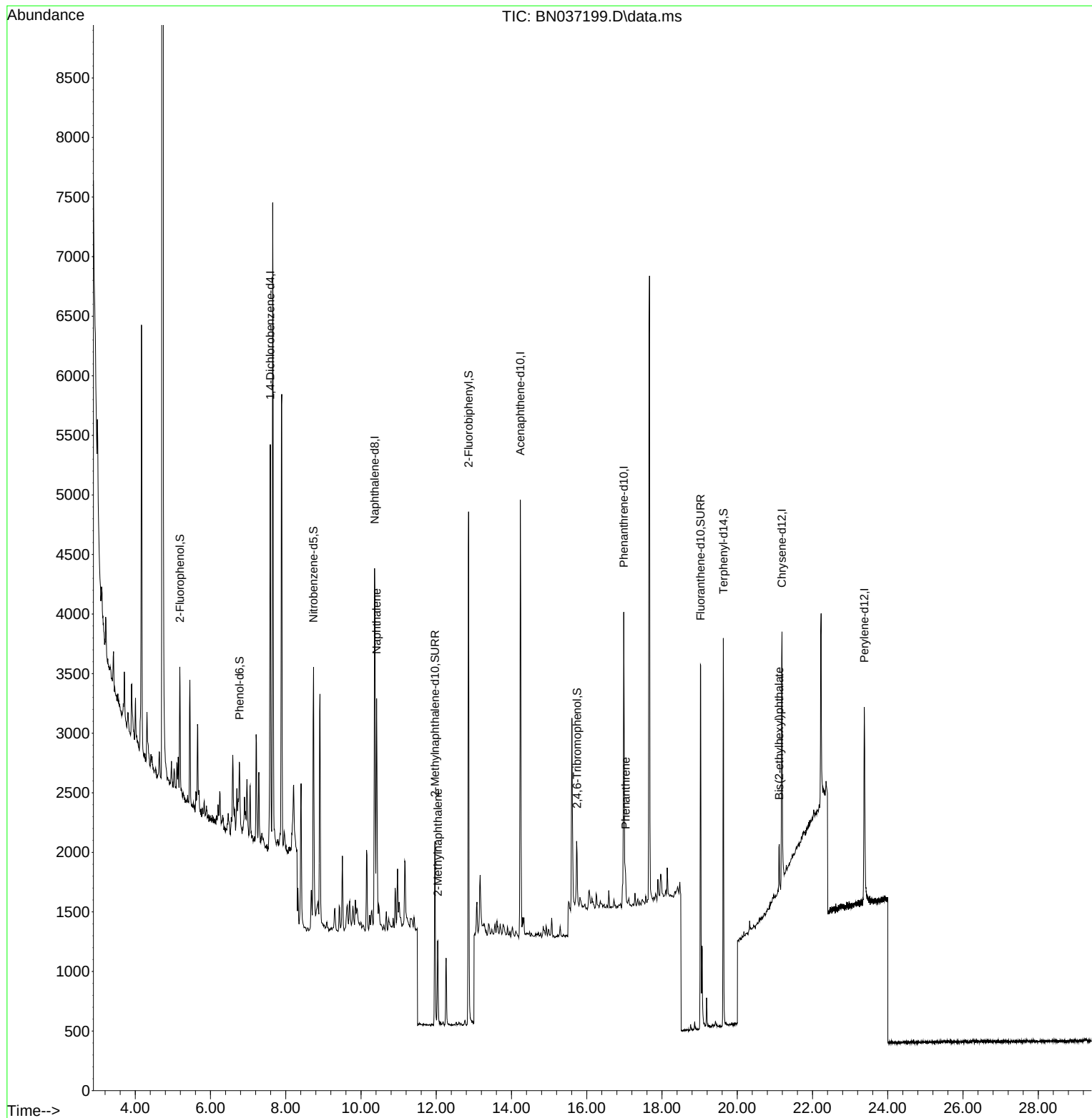
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	1555	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	3832	0.400	ng	#-0.01
13) Acenaphthene-d10	14.235	164	2033	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	3502	0.400	ng	0.00
29) Chrysene-d12	21.189	240	2341	0.400	ng	# 0.00
35) Perylene-d12	23.377	264	2267	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	698	0.182	ng	0.00
5) Phenol-d6	6.773	99	472	0.101	ng	0.00
8) Nitrobenzene-d5	8.739	82	1662	0.411	ng	0.00
11) 2-Methylnaphthalene-d10	11.966	152	2087	0.391	ng	0.00
14) 2,4,6-Tribromophenol	15.743	330	331	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.858	172	3832	0.442	ng	0.00
27) Fluoranthene-d10	19.026	212	3674	0.413	ng	0.00
31) Terphenyl-d14	19.630	244	3024	0.549	ng	0.00
Target Compounds						
9) Naphthalene	10.415	128	1769	0.160	ng	95
12) 2-Methylnaphthalene	12.042	142	486	0.069	ng	93
25) Phenanthrene	17.033	178	288	0.025	ng	# 93
34) Bis(2-ethylhexyl)phtha...	21.117	149	421	0.079	ng	# 96

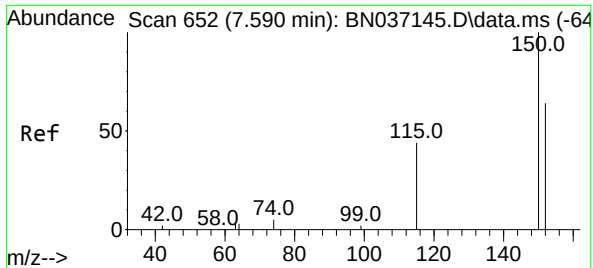
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037199.D
Acq On : 09 Jun 2025 19:27
Operator : RC/JU
Sample : Q2250-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB02-060525

Quant Time: Jun 10 04:03:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

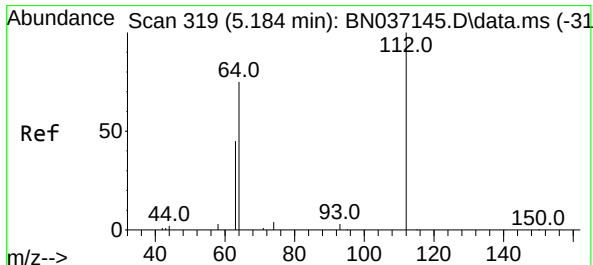
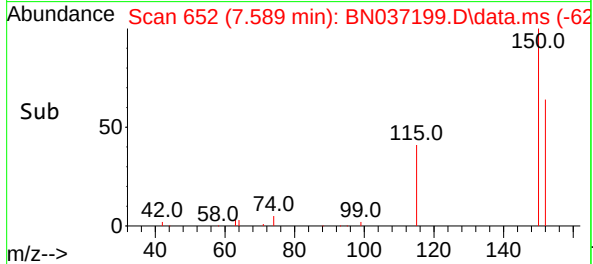
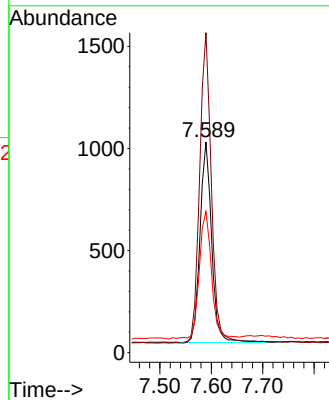
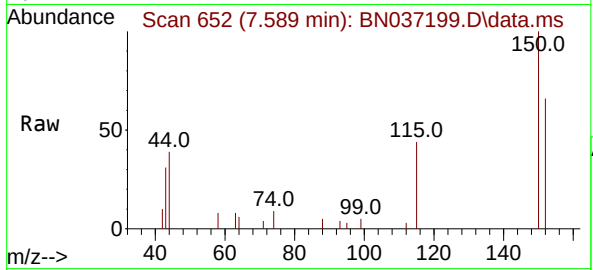




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

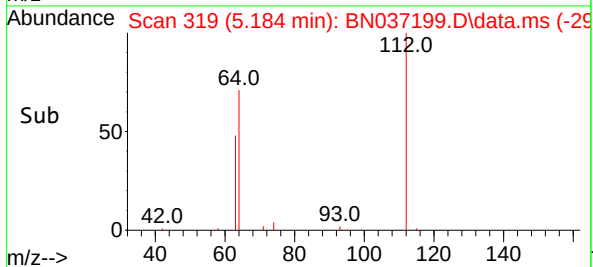
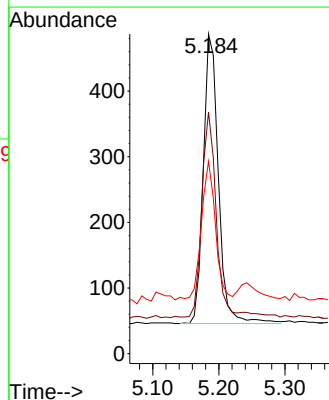
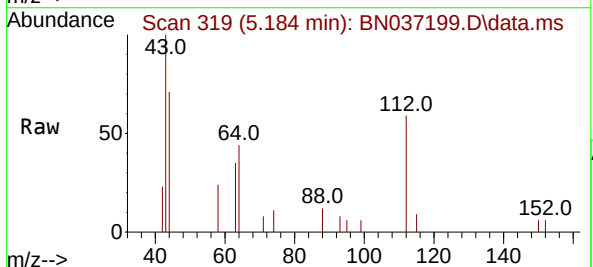
Instrument :
BNA_N
ClientSampleId :
EB02-060525

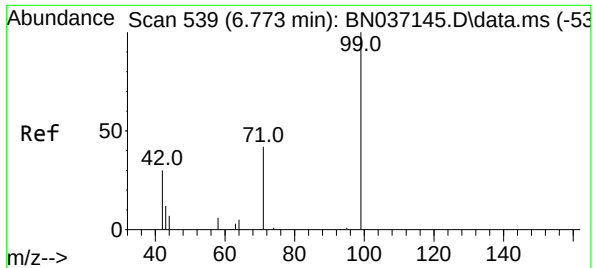
Tgt Ion:152 Resp: 1555
Ion Ratio Lower Upper
152 100
150 151.8 123.2 184.8
115 67.0 56.6 85.0



#4
2-Fluorophenol
Concen: 0.182 ng
RT: 5.184 min Scan# 319
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

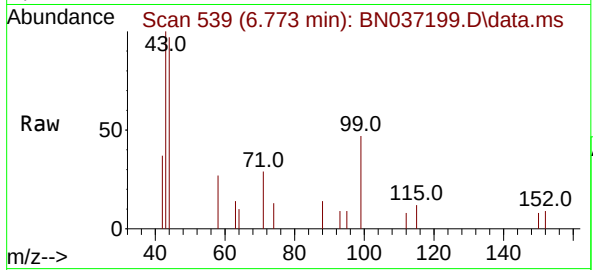
Tgt Ion:112 Resp: 698
Ion Ratio Lower Upper
112 100
64 66.9 56.3 84.5
63 46.6 36.2 54.4



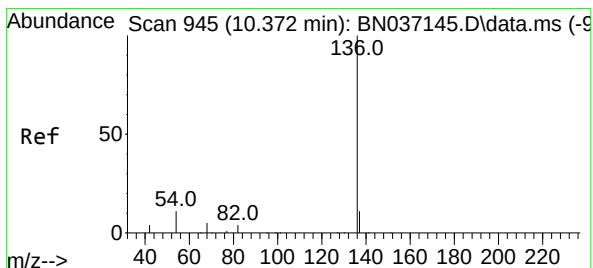
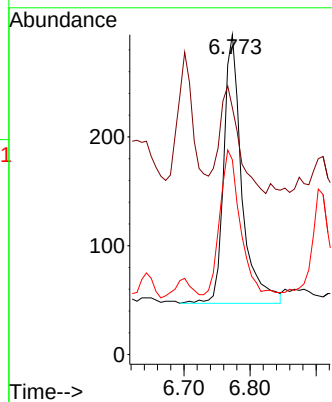
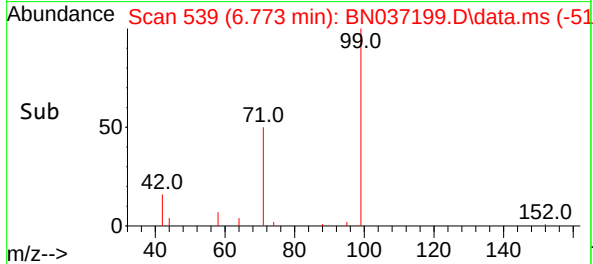


#5
Phenol-d6
Concen: 0.101 ng
RT: 6.773 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Instrument :
BNA_N
ClientSampleId :
EB02-060525

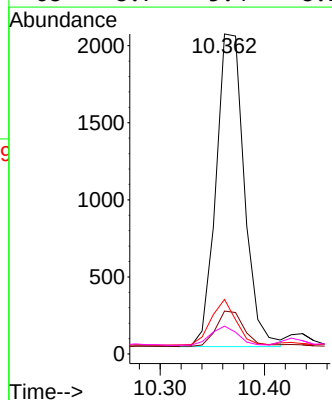
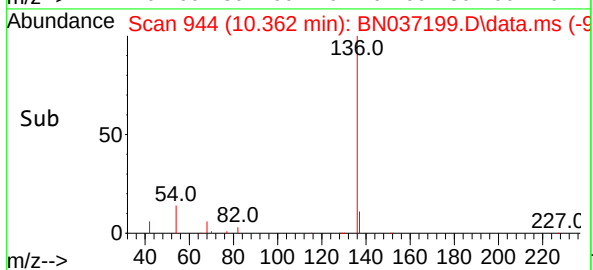
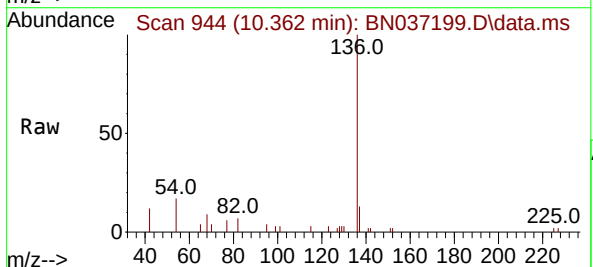


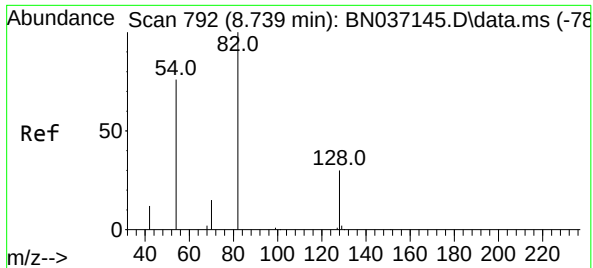
Tgt Ion: 99 Resp: 472
Ion Ratio Lower Upper
99 100
42 42.2 31.3 46.9
71 60.0 38.2 57.2#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.362 min Scan# 944
Delta R.T. -0.011 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion: 136 Resp: 3832
Ion Ratio Lower Upper
136 100
137 13.4 9.7 14.5
54 17.1 9.7 14.5#
68 8.7 5.4 8.2#

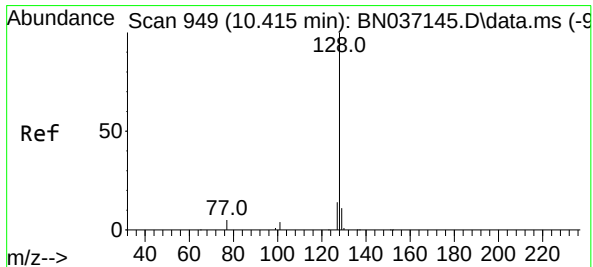
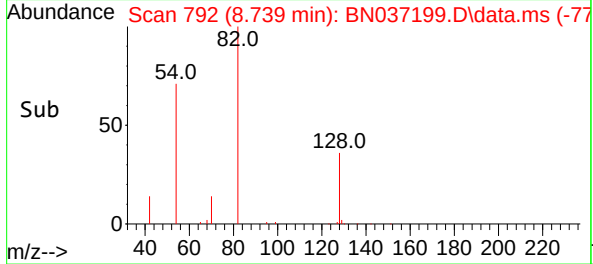
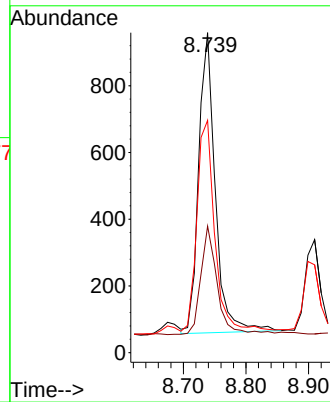
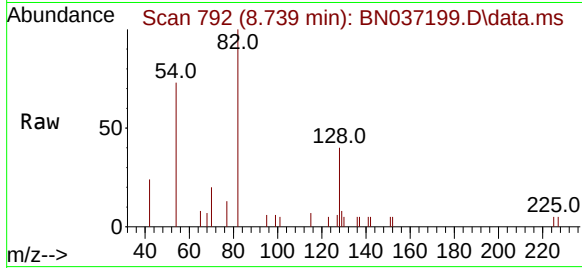




#8
Nitrobenzene-d5
Concen: 0.411 ng
RT: 8.739 min Scan# 792
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

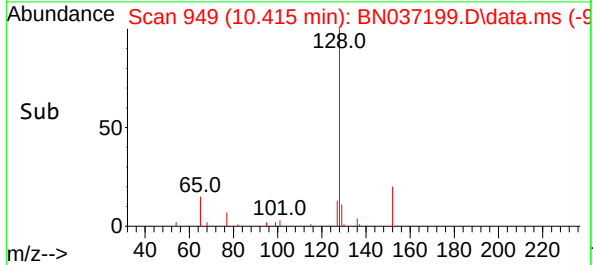
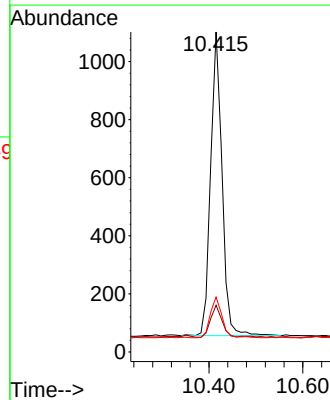
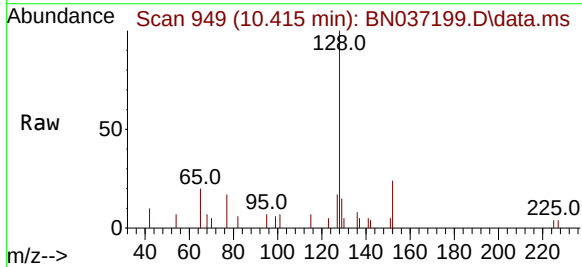
Instrument :
BNA_N
ClientSampleId :
EB02-060525

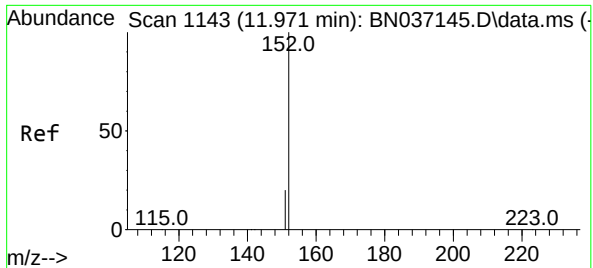
Tgt Ion:	82	Resp:	1662
Ion	Ratio	Lower	Upper
82	100		
128	39.5	26.9	40.3
54	72.6	61.4	92.2



#9
Naphthalene
Concen: 0.160 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:	128	Resp:	1769
Ion	Ratio	Lower	Upper
128	100		
129	14.6	9.8	14.8
127	17.2	12.3	18.5

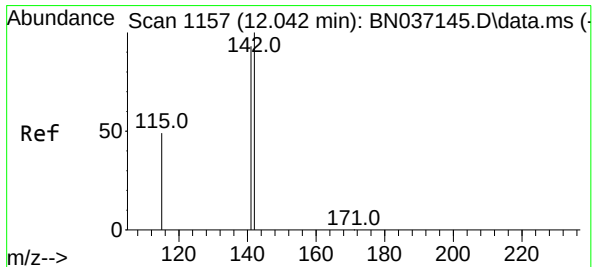
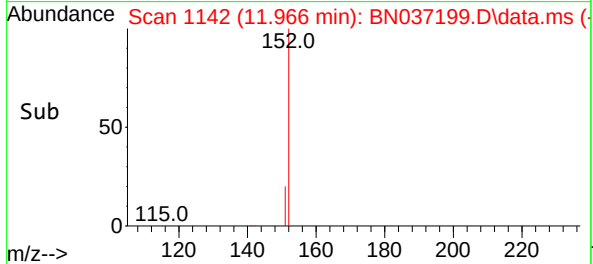
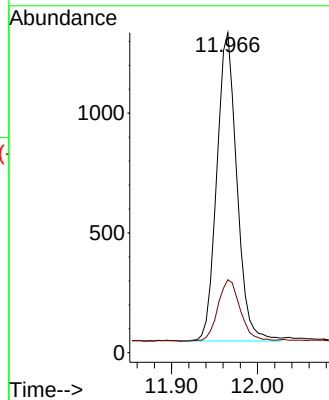
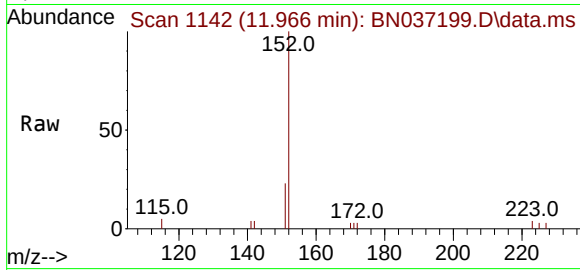




#11
2-Methylnaphthalene-d10
Concen: 0.391 ng
RT: 11.966 min Scan# 1142
Delta R.T. -0.005 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

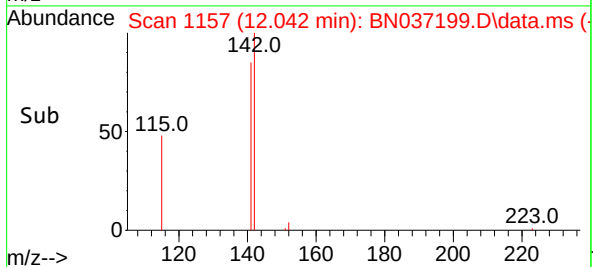
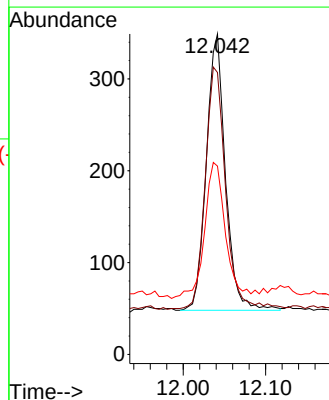
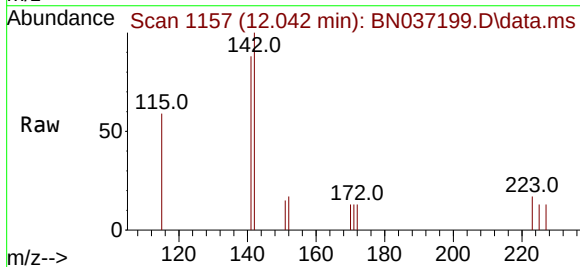
Instrument :
BNA_N
ClientSampleId :
EB02-060525

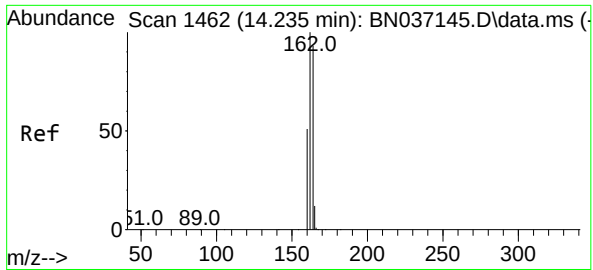
Tgt Ion:152 Resp: 2087
Ion Ratio Lower Upper
152 100
151 22.3 17.1 25.7



#12
2-Methylnaphthalene
Concen: 0.069 ng
RT: 12.042 min Scan# 1157
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:142 Resp: 486
Ion Ratio Lower Upper
142 100
141 88.0 74.6 111.8
115 58.7 41.0 61.4

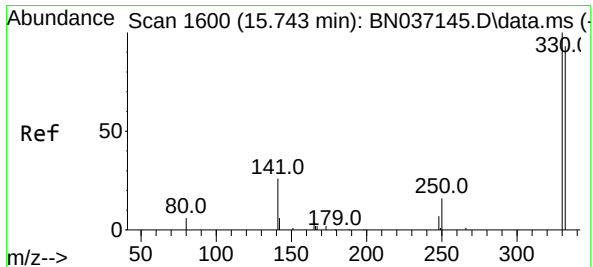
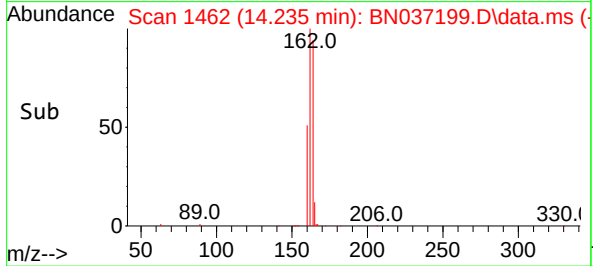
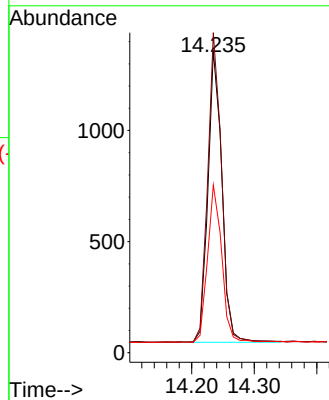
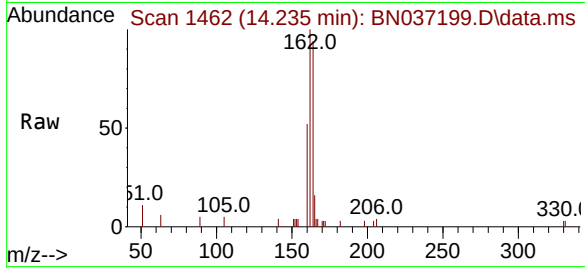




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.235 min Scan# 1462
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

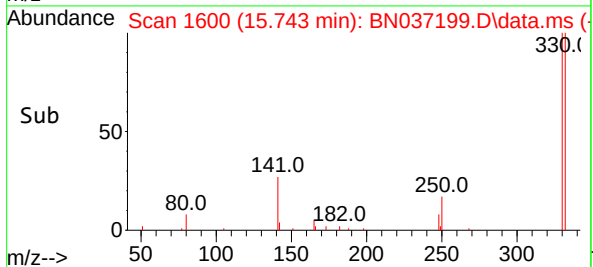
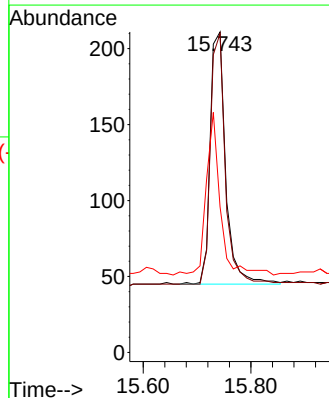
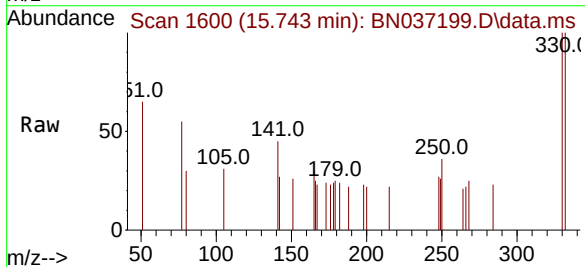
Instrument :
BNA_N
ClientSampleId :
EB02-060525

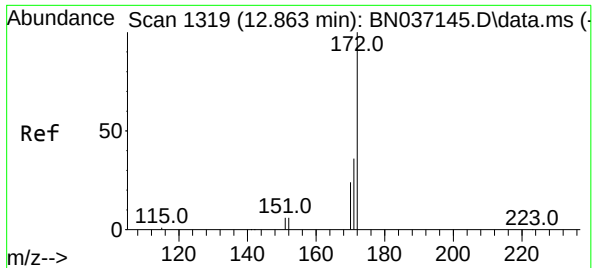
Tgt Ion:	164	Resp:	2033
Ion	Ratio	Lower	Upper
164	100		
162	106.0	85.5	128.3
160	55.6	44.6	67.0



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.743 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:	330	Resp:	331
Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.1	115.7
141	58.6	46.4	69.6

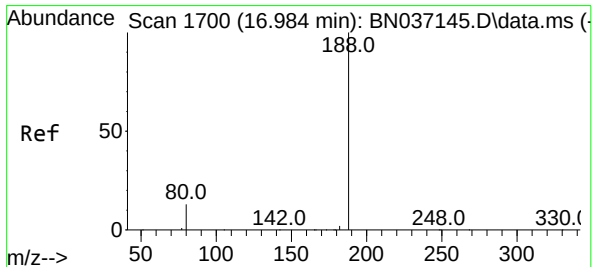
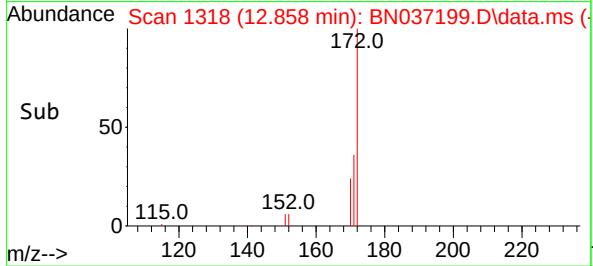
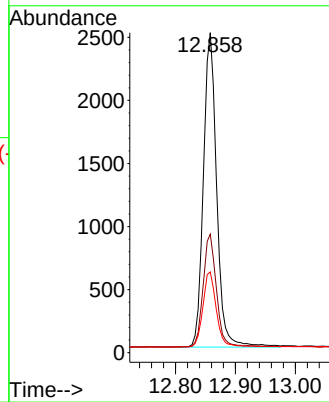
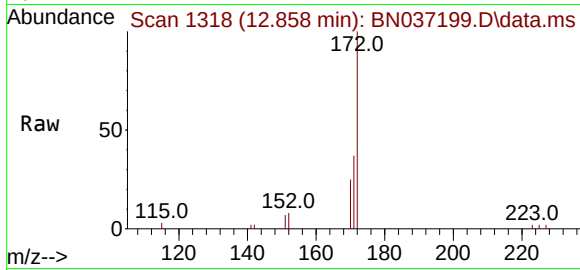




#15
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 12.858 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

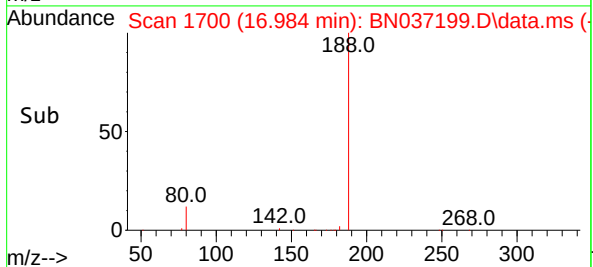
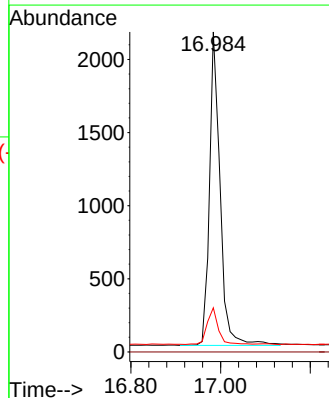
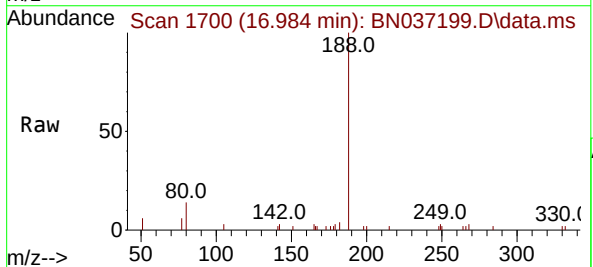
Instrument :
BNA_N
ClientSampleId :
EB02-060525

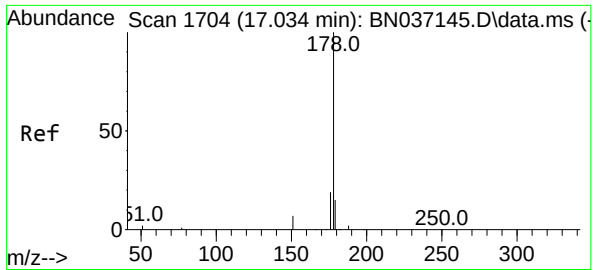
Tgt Ion:	172	Resp:	3832
Ion	Ratio	Lower	Upper
172	100		
171	37.1	29.6	44.4
170	25.3	20.3	30.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.984 min Scan# 1700
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:	188	Resp:	3502
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.8	11.3	16.9

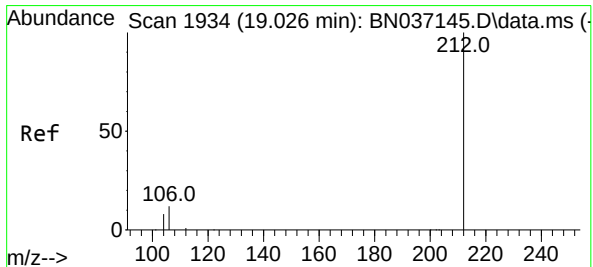
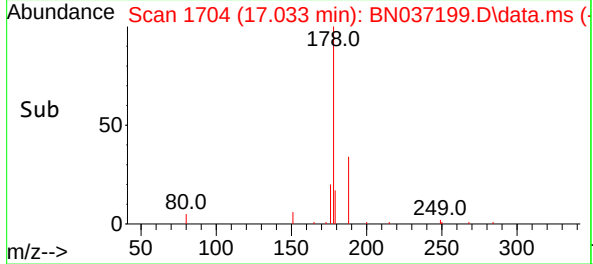
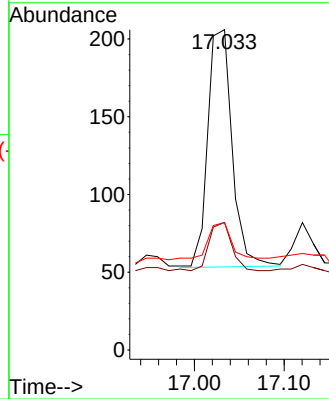
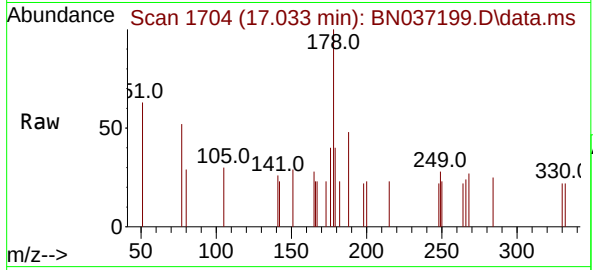




#25
Phenanthrene
Concen: 0.025 ng
RT: 17.033 min Scan# 1704
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

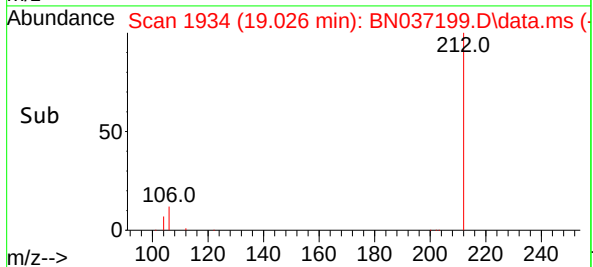
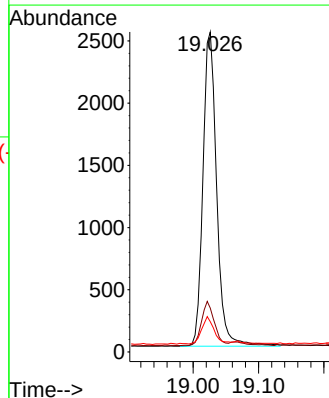
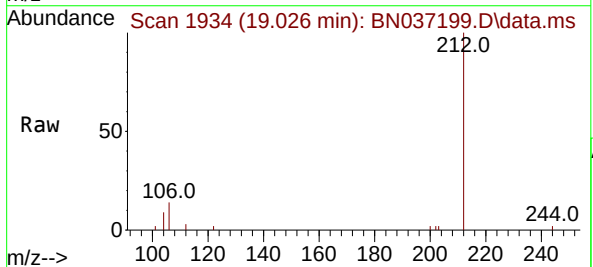
Instrument :
BNA_N
ClientSampleId :
EB02-060525

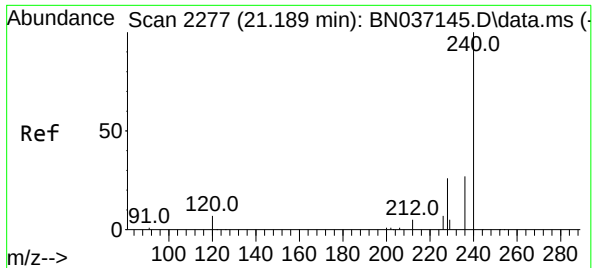
Tgt Ion:	178	Resp:	288
Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.7	23.5
179	21.5	12.3	18.5



#27
Fluoranthene-d10
Concen: 0.413 ng
RT: 19.026 min Scan# 1934
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:	212	Resp:	3674
Ion	Ratio	Lower	Upper
212	100		
106	13.1	10.6	15.8
104	7.9	6.6	9.8

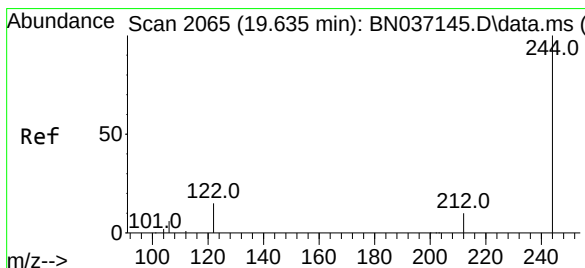
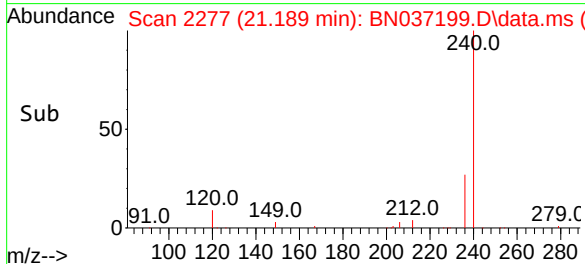
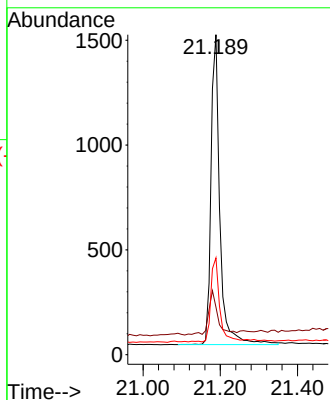
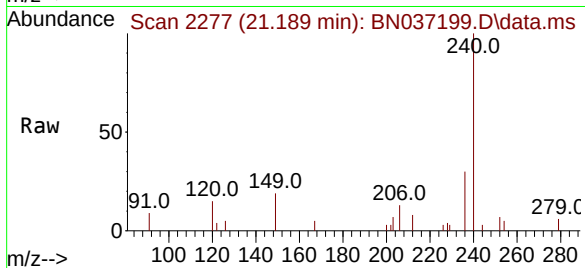




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.189 min Scan# 21189
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

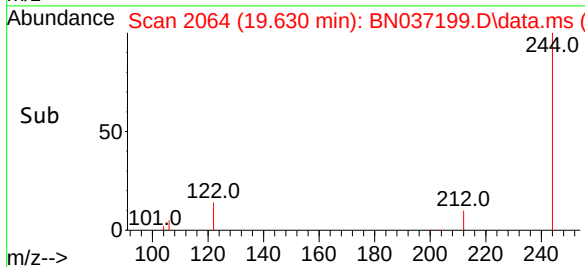
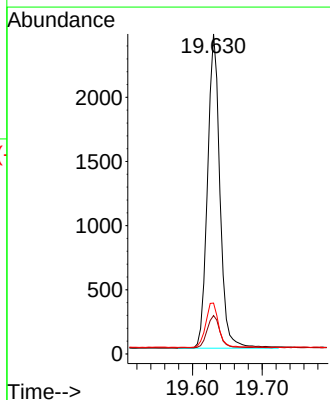
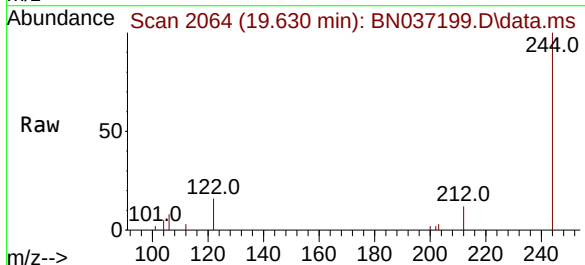
Instrument :
BNA_N
ClientSampleId :
EB02-060525

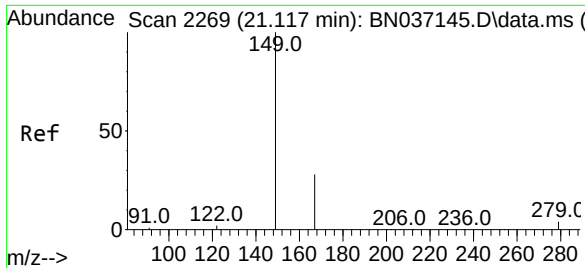
Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.9	9.0	13.4#
236	30.3	23.0	34.4



#31
Terphenyl-d14
Concen: 0.549 ng
RT: 19.630 min Scan# 2064
Delta R.T. -0.005 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	10.0	15.0
122	15.9	13.2	19.8

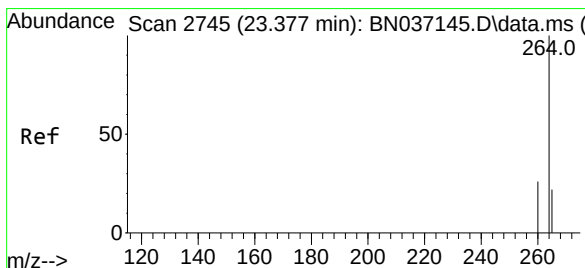
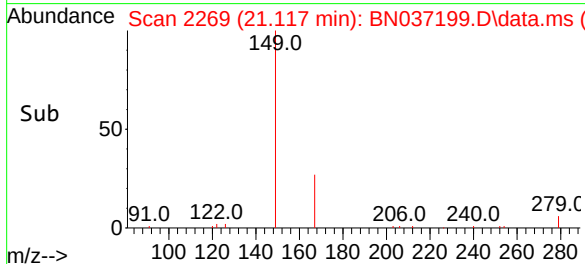
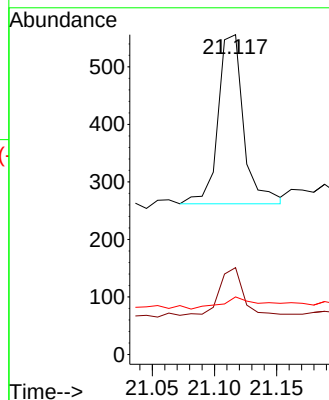
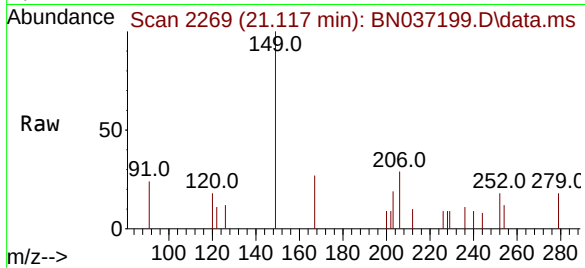




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.079 ng
RT: 21.117 min Scan# 2117
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

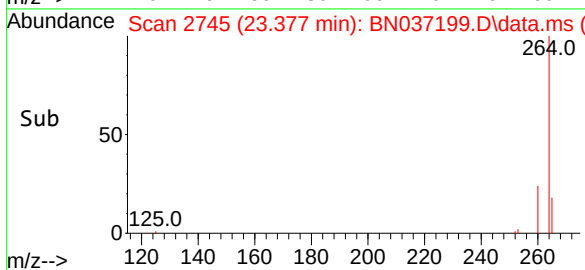
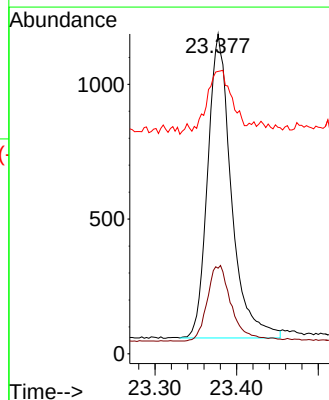
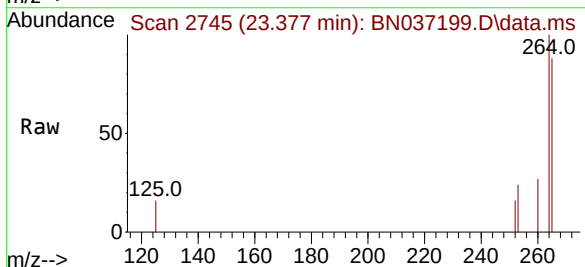
Instrument :
BNA_N
ClientSampleId :
EB02-060525

Tgt Ion:149 Resp: 421
Ion Ratio Lower Upper
149 100
167 26.1 21.0 31.4
279 14.7 2.9 4.3#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.377 min Scan# 2745
Delta R.T. -0.000 min
Lab File: BN037199.D
Acq: 09 Jun 2025 19:27

Tgt Ion:264 Resp: 2267
Ion Ratio Lower Upper
264 100
260 26.8 22.1 33.1
265 88.3 55.8 83.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037190.D
Acq On : 09 Jun 2025 11:30
Operator : RC/JU
Sample : PB168336BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168336BL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jun 09 12:24:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	1816	0.400	ng	0.00
7) Naphthalene-d8	10.372	136	4227	0.400	ng	# 0.00
13) Acenaphthene-d10	14.245	164	2101	0.400	ng	0.01
19) Phenanthrene-d10	16.996	188	3500	0.400	ng	0.01
29) Chrysene-d12	21.189	240	2446	0.400	ng	# 0.00
35) Perylene-d12	23.386	264	2291	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.192	112	1866	0.416	ng	0.00
5) Phenol-d6	6.773	99	1994	0.366	ng	0.00
8) Nitrobenzene-d5	8.749	82	1646	0.369	ng	0.01
11) 2-Methylnaphthalene-d10	11.970	152	2143	0.364	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	207	0.245	ng	0.01
15) 2-Fluorobiphenyl	12.863	172	3619	0.404	ng	0.00
27) Fluoranthene-d10	19.026	212	3511	0.395	ng	0.00
31) Terphenyl-d14	19.635	244	2421	0.420	ng	0.00

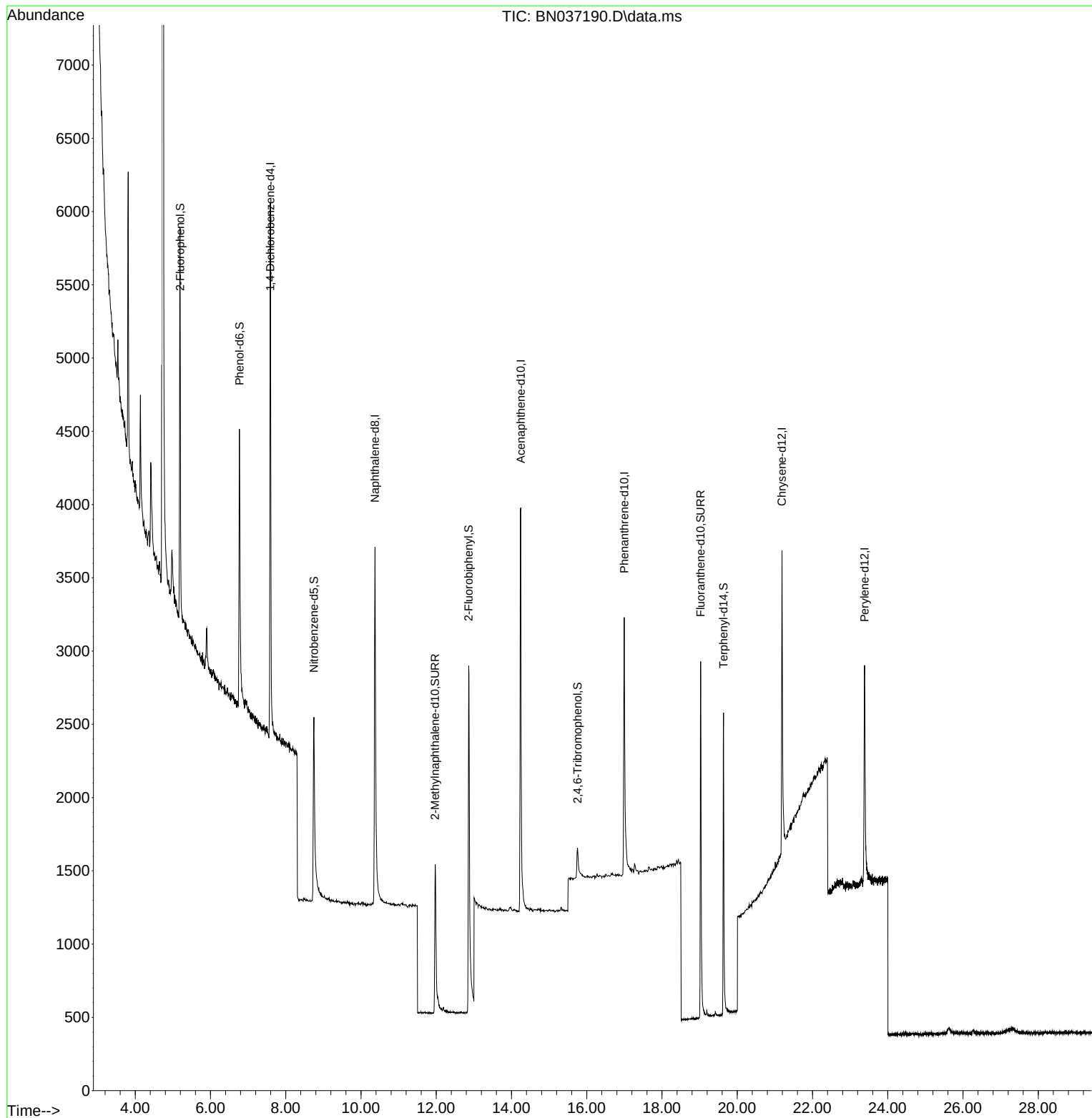
Target Compounds	Qvalue

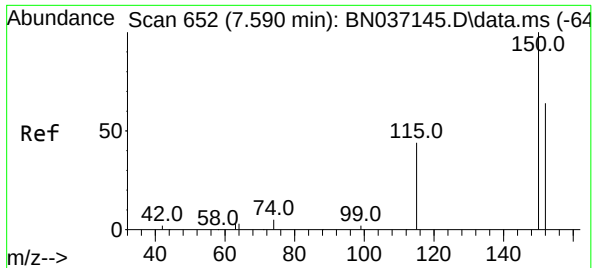
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037190.D
Acq On : 09 Jun 2025 11:30
Operator : RC/JU
Sample : PB168336BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168336BL

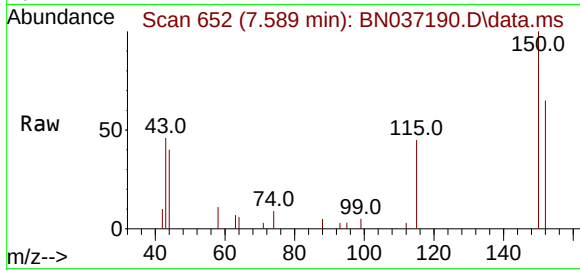
Quant Time: Jun 09 12:24:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



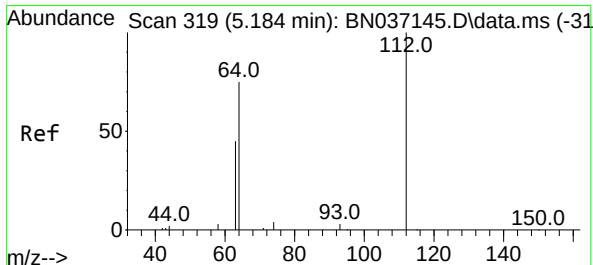
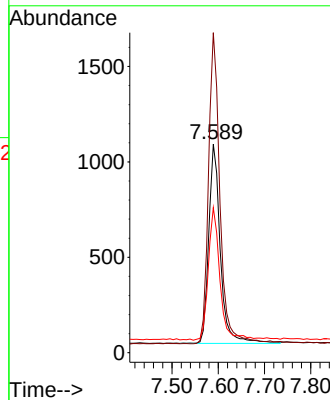
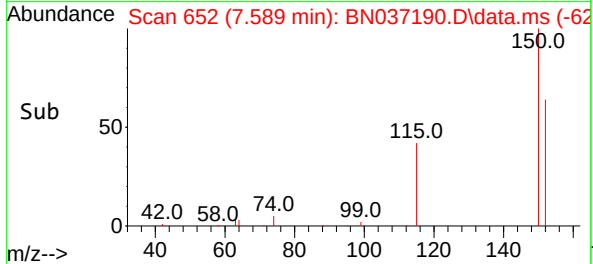


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.589 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

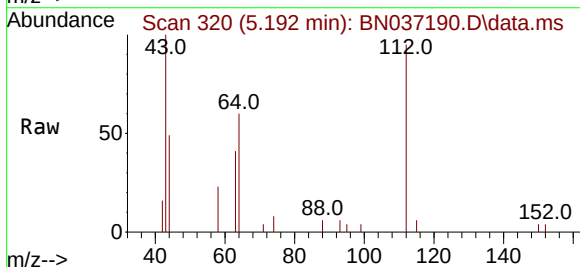
Instrument :
BNA_N
ClientSampleId :
PB168336BL



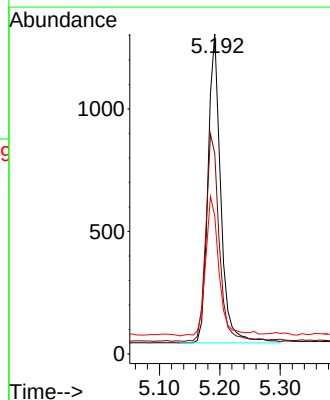
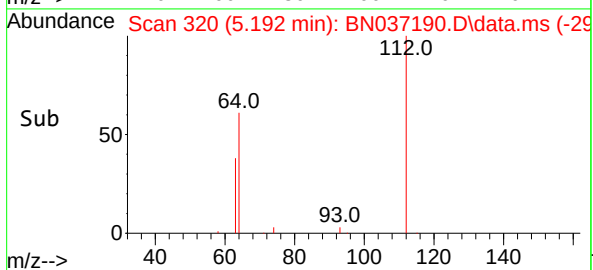
Tgt Ion:152 Resp: 1816
Ion Ratio Lower Upper
152 100
150 153.4 123.2 184.8
115 69.5 56.6 85.0

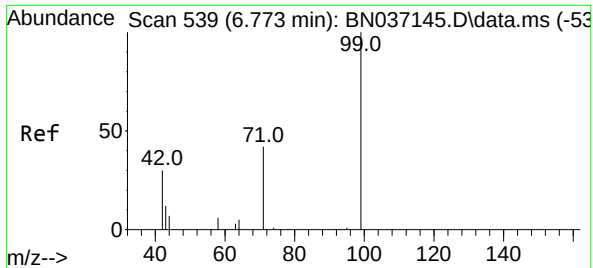


#4
2-Fluorophenol
Concen: 0.416 ng
RT: 5.192 min Scan# 320
Delta R.T. 0.007 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30



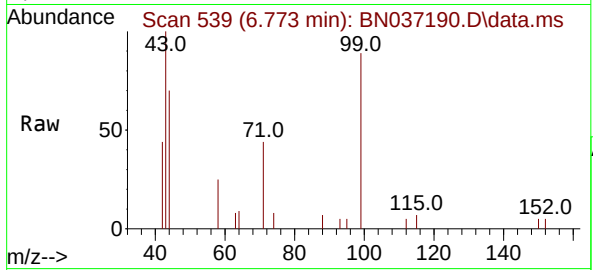
Tgt Ion:112 Resp: 1866
Ion Ratio Lower Upper
112 100
64 69.8 56.3 84.5
63 47.4 36.2 54.4



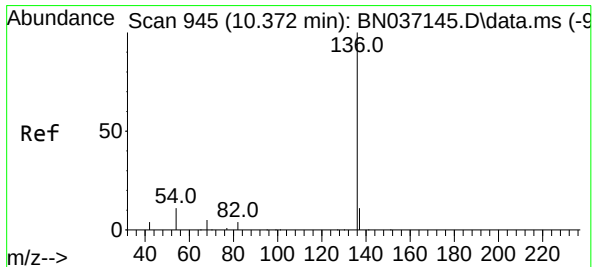
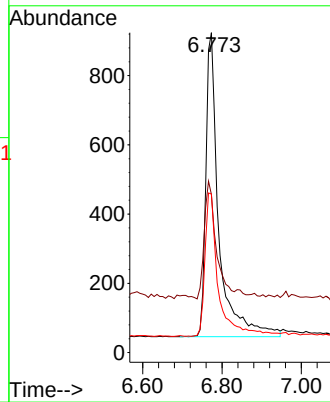
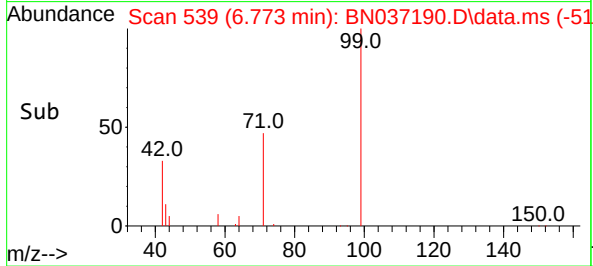


#5
Phenol-d6
Concen: 0.366 ng
RT: 6.773 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

Instrument :
BNA_N
ClientSampleId :
PB168336BL

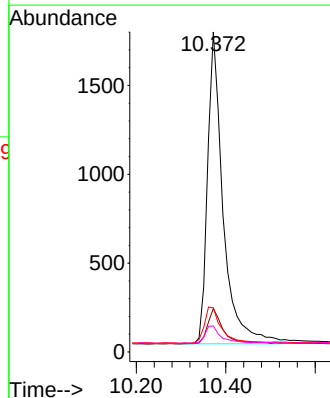
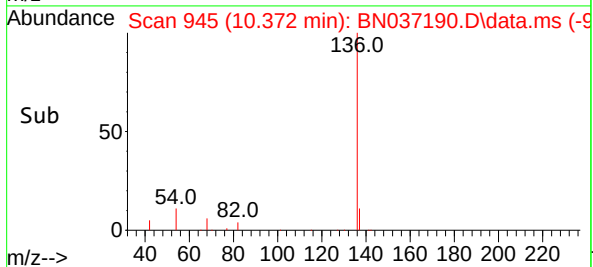
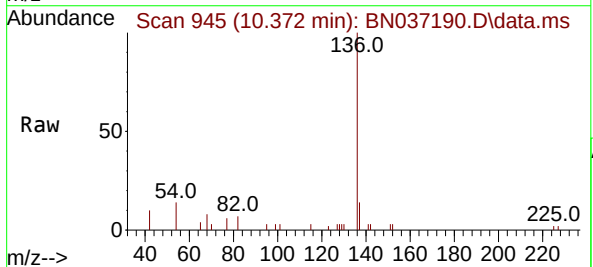


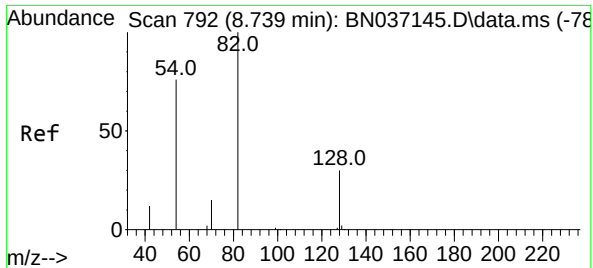
Tgt Ion:	99	Resp:	1994
Ion	Ratio	Lower	Upper
99	100		
42	34.5	31.3	46.9
71	48.8	38.2	57.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.372 min Scan# 945
Delta R.T. -0.000 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

Tgt Ion:	136	Resp:	4227
Ion	Ratio	Lower	Upper
136	100		
137	13.6	9.7	14.5
54	13.8	9.7	14.5
68	8.2	5.4	8.2

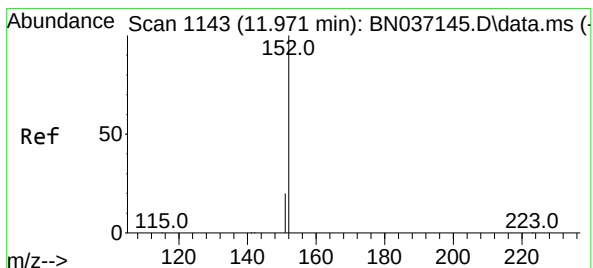
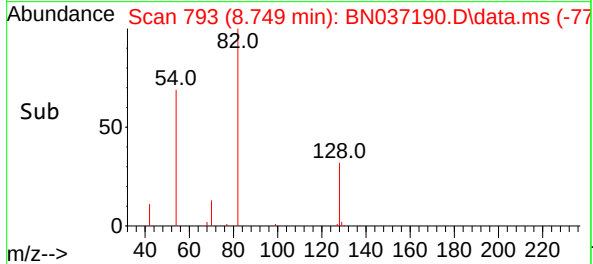
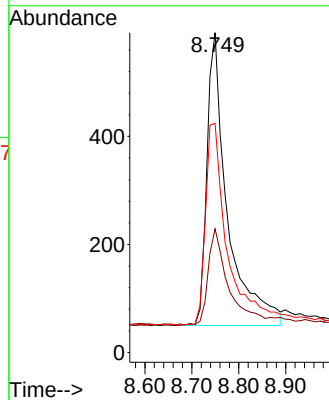
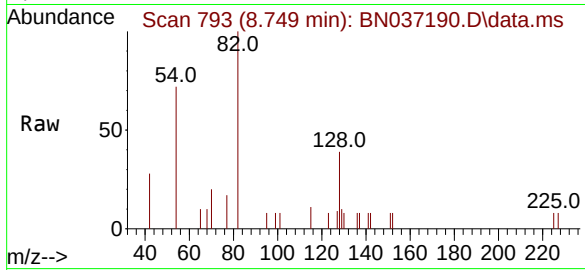




#8
Nitrobenzene-d5
Concen: 0.369 ng
RT: 8.749 min Scan# 792
Delta R.T. 0.011 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

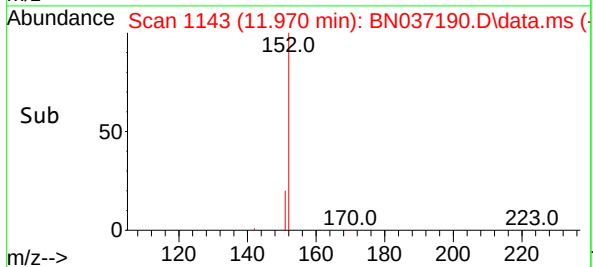
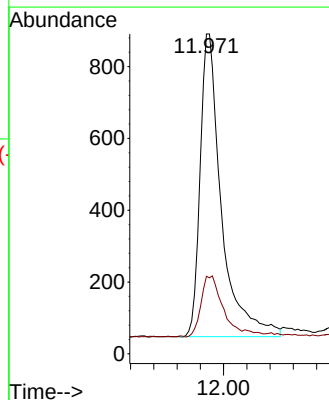
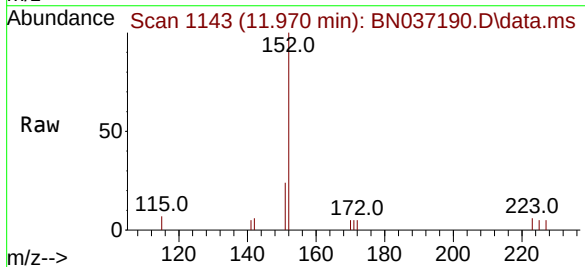
Instrument :
BNA_N
ClientSampleId :
PB168336BL

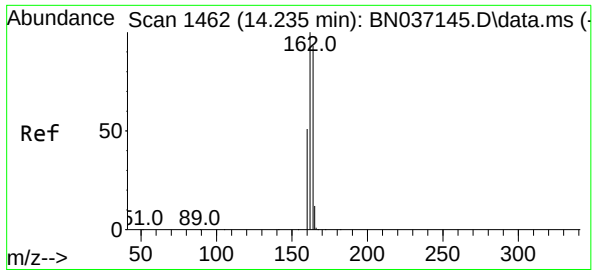
Tgt Ion:	82	Resp:	1646
Ion	Ratio	Lower	Upper
82	100		
128	38.7	26.9	40.3
54	71.6	61.4	92.2



#11
2-Methylnaphthalene-d10
Concen: 0.364 ng
RT: 11.970 min Scan# 1143
Delta R.T. -0.000 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

Tgt Ion:	152	Resp:	2143
Ion	Ratio	Lower	Upper
152	100		
151	21.8	17.1	25.7

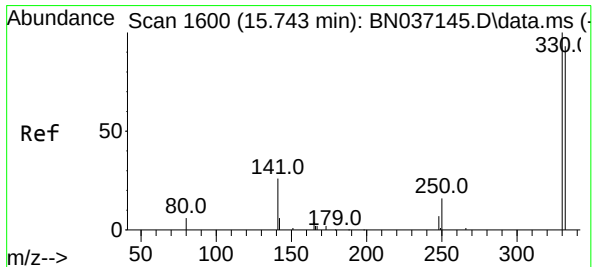
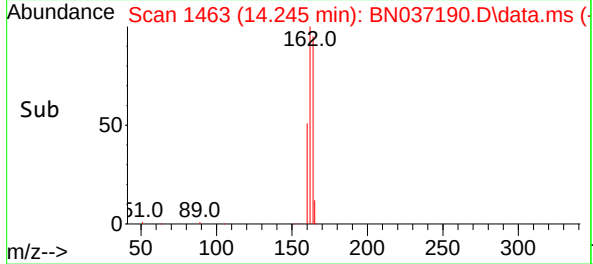
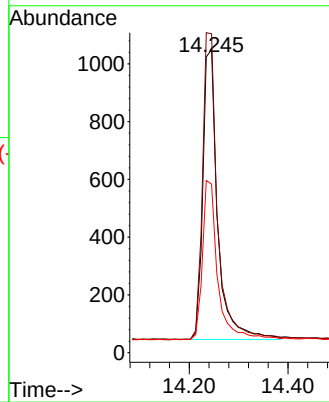
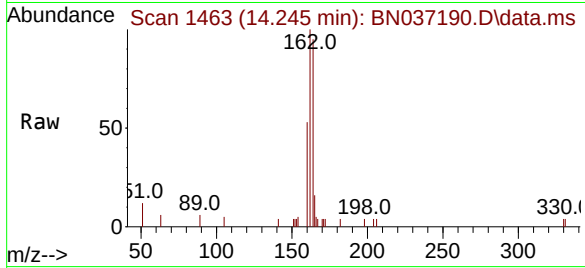




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.245 min Scan# 1463
Delta R.T. 0.011 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

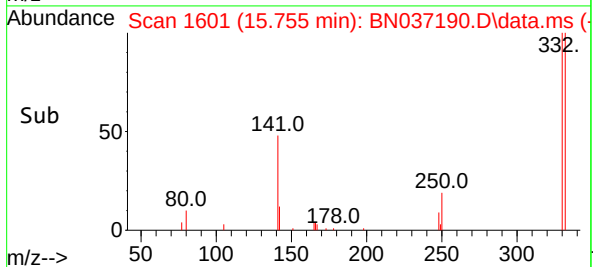
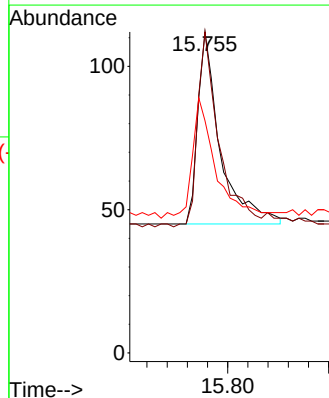
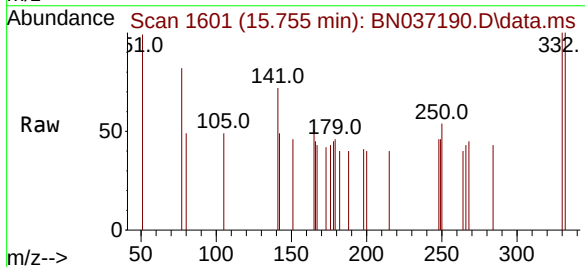
Instrument :
BNA_N
ClientSampleId :
PB168336BL

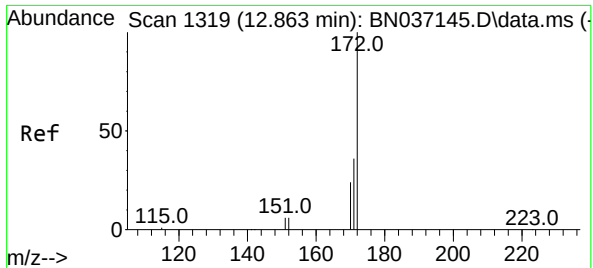
Tgt Ion	164	Resp:	2101
Ion Ratio	Lower	Upper	
164	100		
162	105.1	85.5	128.3
160	55.6	44.6	67.0



#14
2,4,6-Tribromophenol
Concen: 0.245 ng
RT: 15.755 min Scan# 1601
Delta R.T. 0.012 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

Tgt Ion	330	Resp:	207
Ion Ratio	Lower	Upper	
330	100		
332	98.1	77.1	115.7
141	66.7	46.4	69.6

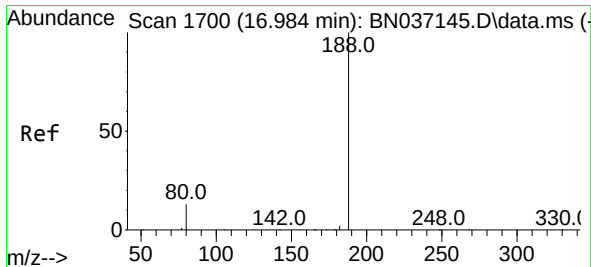
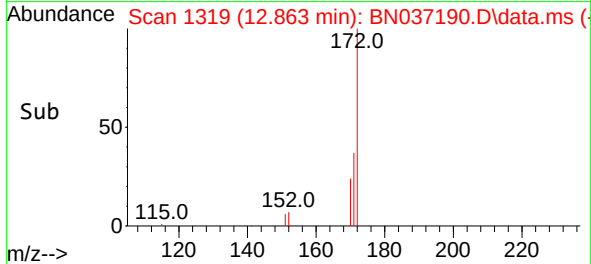
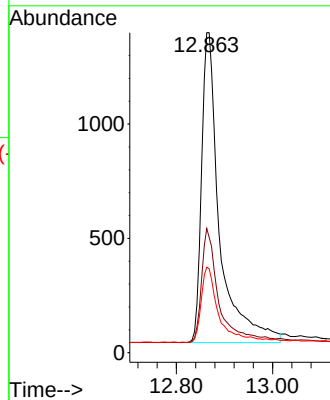
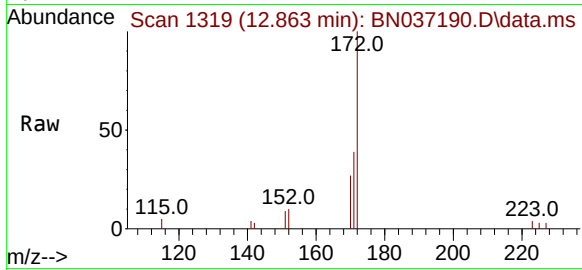




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 12.863 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

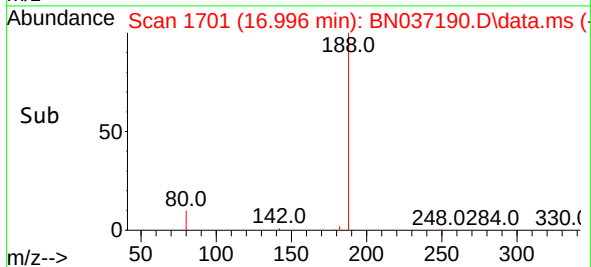
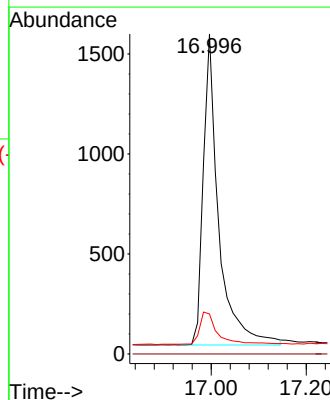
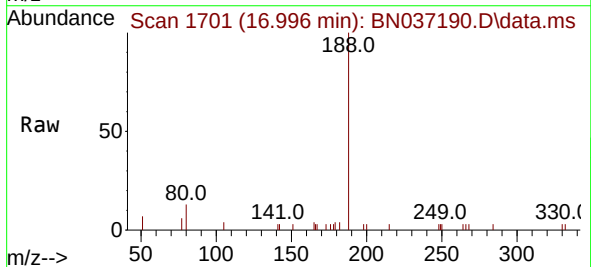
Instrument :
BNA_N
ClientSampleId :
PB168336BL

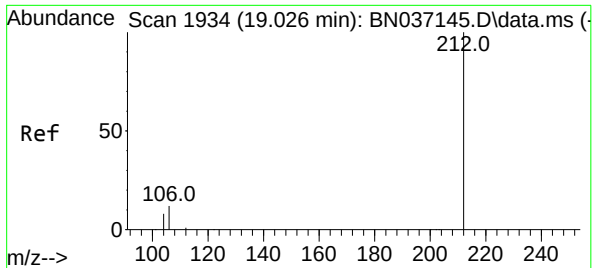
Tgt Ion:	172	Resp:	3619
Ion	Ratio	Lower	Upper
172	100		
171	38.8	29.6	44.4
170	26.7	20.3	30.5



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.996 min Scan# 1701
Delta R.T. 0.012 min
Lab File: BN037190.D
Acq: 09 Jun 2025 11:30

Tgt Ion:	188	Resp:	3500
Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	11.3	16.9





#27

Fluoranthene-d10

Concen: 0.395 ng

RT: 19.026 min Scan# 1934

Delta R.T. -0.000 min

Lab File: BN037190.D

Acq: 09 Jun 2025 11:30

Instrument :

BNA_N

ClientSampleId :

PB168336BL

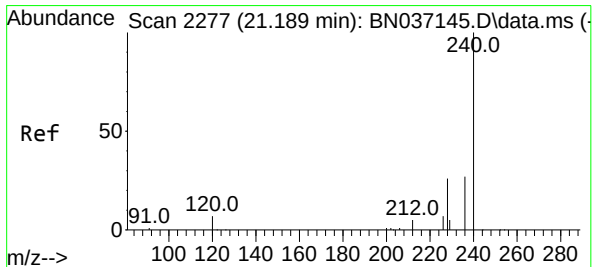
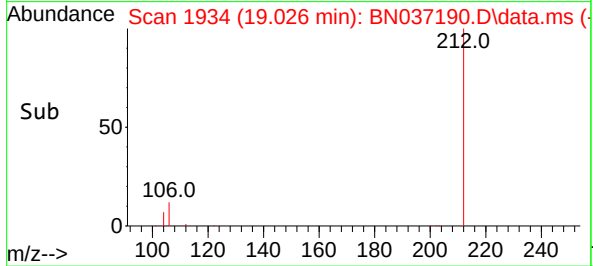
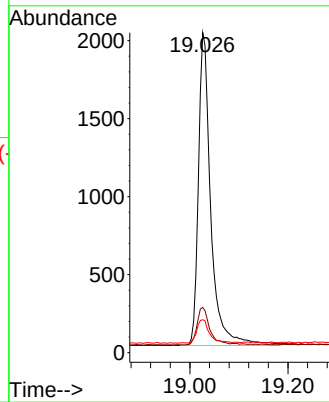
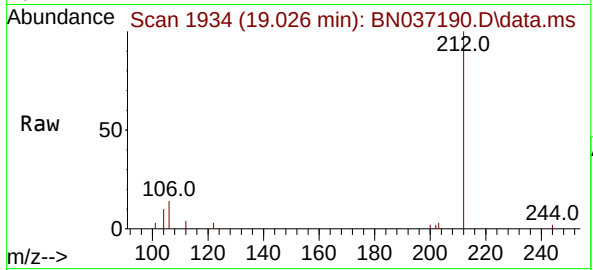
Tgt Ion:212 Resp: 3511

Ion Ratio Lower Upper

212 100

106 12.0 10.6 15.8

104 7.4 6.6 9.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.189 min Scan# 2277

Delta R.T. -0.000 min

Lab File: BN037190.D

Acq: 09 Jun 2025 11:30

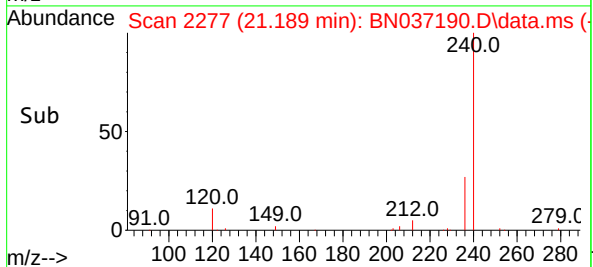
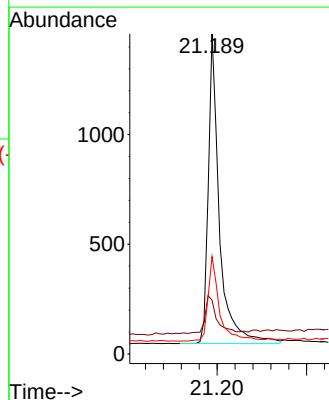
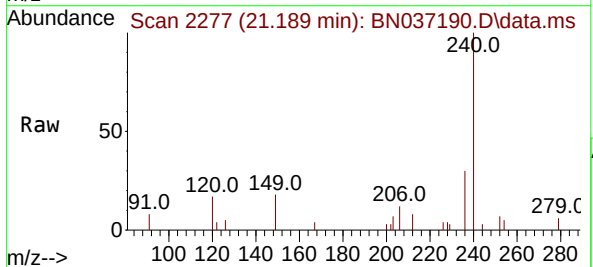
Tgt Ion:240 Resp: 2446

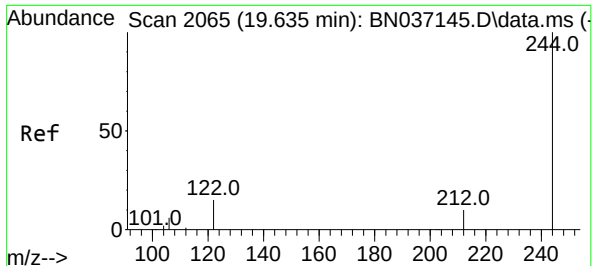
Ion Ratio Lower Upper

240 100

120 16.8 9.0 13.4

236 30.4 23.0 34.4





#31

Terphenyl-d14

Concen: 0.420 ng

RT: 19.635 min Scan# 2065

Delta R.T. -0.000 min

Lab File: BN037190.D

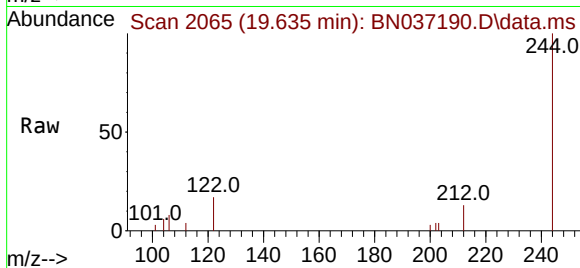
Acq: 09 Jun 2025 11:30

Instrument :

BNA_N

ClientSampleId :

PB168336BL



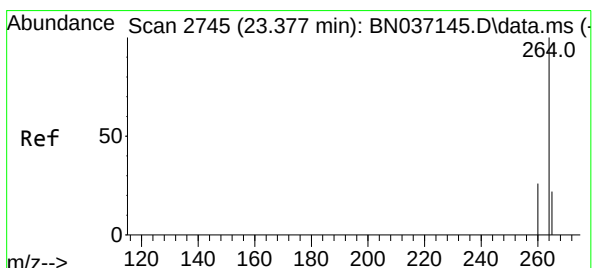
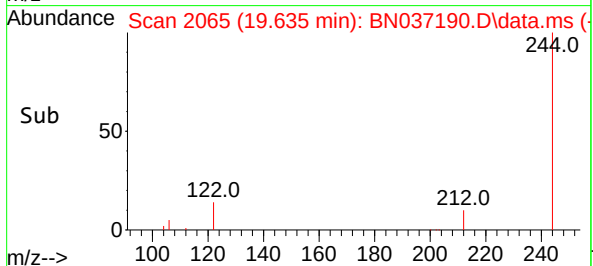
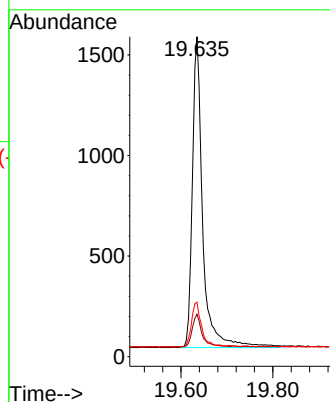
Tgt Ion:244 Resp: 2421

Ion Ratio Lower Upper

244 100

212 13.3 10.0 15.0

122 17.0 13.2 19.8



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.386 min Scan# 2748

Delta R.T. 0.009 min

Lab File: BN037190.D

Acq: 09 Jun 2025 11:30

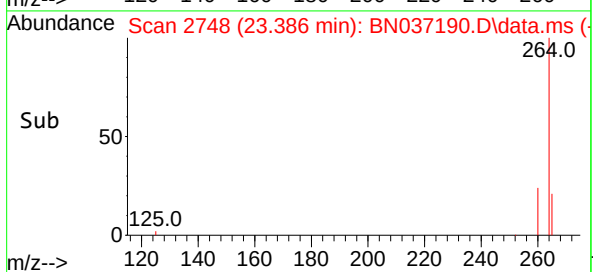
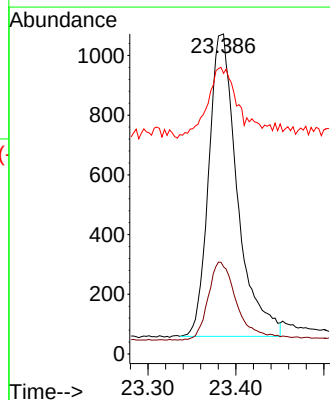
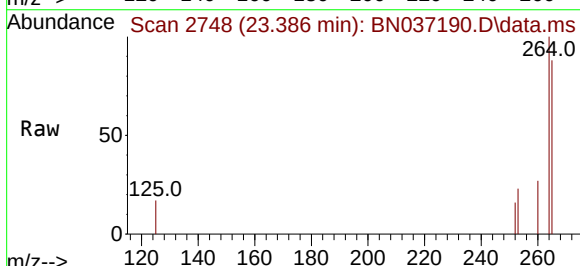
Tgt Ion:264 Resp: 2291

Ion Ratio Lower Upper

264 100

260 27.2 22.1 33.1

265 87.7 55.8 83.8#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037201.D
 Acq On : 09 Jun 2025 20:40
 Operator : RC/JU
 Sample : PB168336BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168336BS

Quant Time: Jun 10 04:03:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

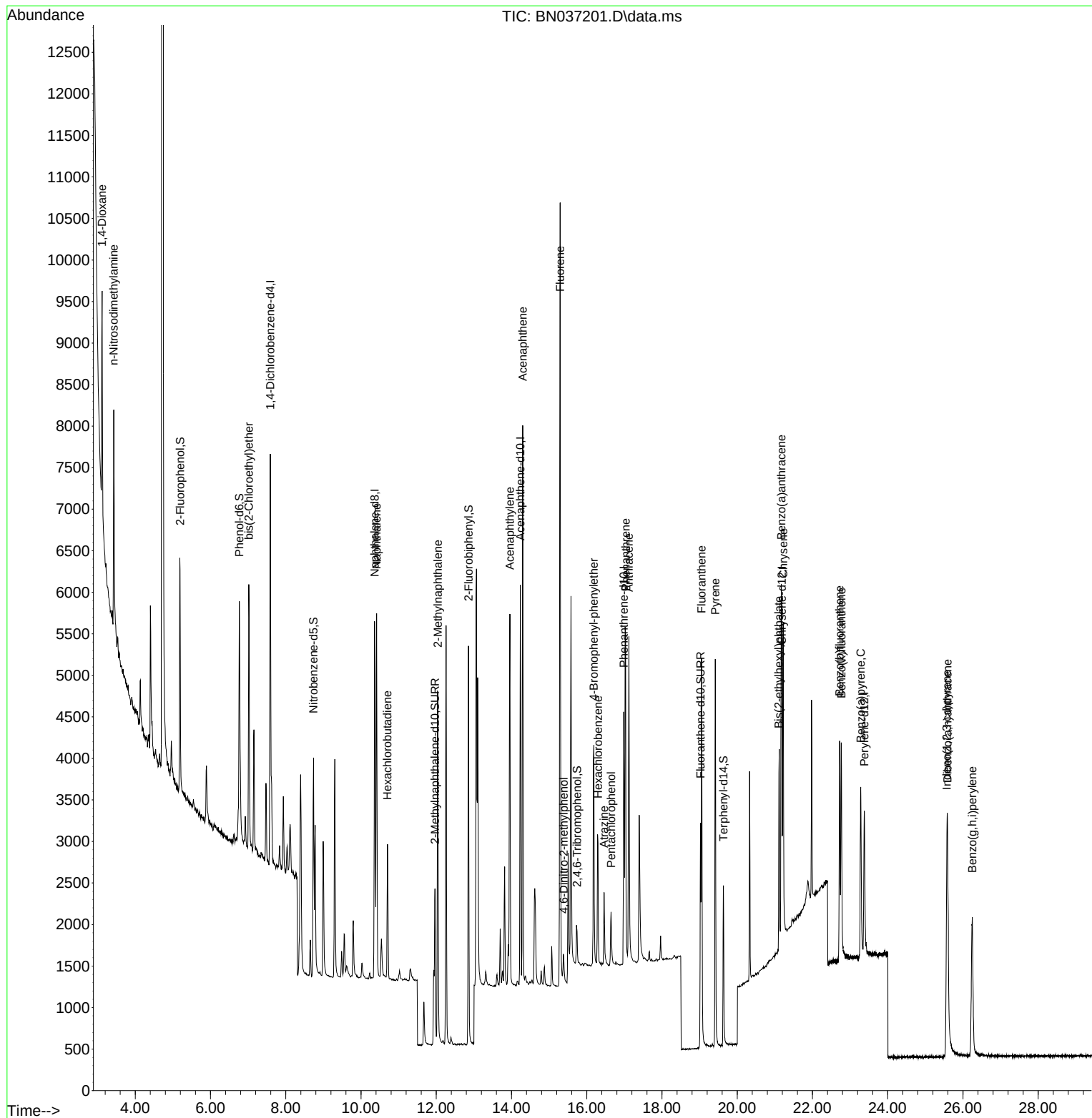
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	2227	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	5466	0.400	ng	#-0.01
13) Acenaphthene-d10	14.234	164	2607	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	4253	0.400	ng	0.00
29) Chrysene-d12	21.188	240	2468	0.400	ng	# 0.00
35) Perylene-d12	23.377	264	2373	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.191	112	2001	0.363	ng	0.00
5) Phenol-d6	6.766	99	2345	0.351	ng	0.00
8) Nitrobenzene-d5	8.738	82	2065	0.358	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2755	0.362	ng	0.00
14) 2,4,6-Tribromophenol	15.742	330	307	0.292	ng	0.00
15) 2-Fluorobiphenyl	12.858	172	4234	0.381	ng	0.00
27) Fluoranthene-d10	19.026	212	3278	0.303	ng	0.00
31) Terphenyl-d14	19.634	244	2215	0.381	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.119	88	1196	0.403	ng	# 44
3) n-Nitrosodimethylamine	3.429	42	2277	0.382	ng	# 91
6) bis(2-Chloroethyl)ether	7.019	93	2167	0.340	ng	95
9) Naphthalene	10.415	128	5395	0.342	ng	100
10) Hexachlorobutadiene	10.703	225	1252	0.364	ng	# 97
12) 2-Methylnaphthalene	12.041	142	3113	0.308	ng	99
16) Acenaphthylene	13.956	152	4871	0.381	ng	100
17) Acenaphthene	14.298	154	2908	0.350	ng	100
18) Fluorene	15.293	166	3677	0.337	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	337	0.545	ng	# 68
21) 4-Bromophenyl-phenylether	16.189	248	1073	0.385	ng	91
22) Hexachlorobenzene	16.301	284	1184	0.394	ng	98
23) Atrazine	16.462	200	810	0.352	ng	98
24) Pentachlorophenol	16.648	266	393	0.433	ng	98
25) Phenanthrene	17.033	178	4954	0.360	ng	100
26) Anthracene	17.120	178	4498	0.358	ng	98
28) Fluoranthene	19.054	202	4519	0.297	ng	100
30) Pyrene	19.416	202	4443	0.369	ng	99
32) Benzo(a)anthracene	21.170	228	3255	0.364	ng	98
33) Chrysene	21.224	228	3659	0.368	ng	99
34) Bis(2-ethylhexyl)phtha...	21.108	149	1974	0.350	ng	100
36) Indeno(1,2,3-cd)pyrene	25.573	276	4127	0.437	ng	98
37) Benzo(b)fluoranthene	22.722	252	3317	0.346	ng	92
38) Benzo(k)fluoranthene	22.766	252	3519	0.360	ng	94
39) Benzo(a)pyrene	23.283	252	3154	0.393	ng	94
40) Dibenzo(a,h)anthracene	25.590	278	3219	0.442	ng	96
41) Benzo(g,h,i)perylene	26.248	276	3529	0.422	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037201.D
Acq On : 09 Jun 2025 20:40
Operator : RC/JU
Sample : PB168336BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168336BS

Quant Time: Jun 10 04:03:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037192.D
 Acq On : 09 Jun 2025 14:33
 Operator : RC/JU
 Sample : Q2250-02MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-11A-13.5-060525MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/10/2025
 Supervised By :Jagrut Upadhyay 06/10/2025

Quant Time: Jun 09 15:40:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.589	152	2144	0.400	ng	0.00
7) Naphthalene-d8	10.361	136	5670	0.400	ng	#-0.01
13) Acenaphthene-d10	14.234	164	2991	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	5389	0.400	ng	0.00
29) Chrysene-d12	21.188	240	3448	0.400	ng	0.00
35) Perylene-d12	23.380	264	3177	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.184	112	842	0.159	ng	0.00
5) Phenol-d6	6.766	99	649	0.101	ng	0.00
8) Nitrobenzene-d5	8.739	82	1888	0.316	ng	0.00
11) 2-Methylnaphthalene-d10	11.965	152	2380m	0.302	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	466	0.387	ng	-0.01
15) 2-Fluorobiphenyl	12.858	172	4371	0.343	ng	0.00
27) Fluoranthene-d10	19.026	212	5042	0.368	ng	0.00
31) Terphenyl-d14	19.630	244	3837	0.473	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.111	88	8692	3.041	ng	94
3) n-Nitrosodimethylamine	3.429	42	693	0.121	ng	# 80
6) bis(2-Chloroethyl)ether	7.019	93	2028	0.331	ng	96
9) Naphthalene	10.415	128	5151	0.315	ng	99
10) Hexachlorobutadiene	10.703	225	918	0.258	ng	# 100
12) 2-Methylnaphthalene	12.036	142	3206	0.306	ng	98
16) Acenaphthylene	13.956	152	5430	0.370	ng	100
17) Acenaphthene	14.299	154	3253	0.342	ng	99
18) Fluorene	15.293	166	4617	0.369	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	513	0.599	ng	# 58
21) 4-Bromophenyl-phenylether	16.189	248	1414	0.400	ng	# 83
22) Hexachlorobenzene	16.301	284	1382	0.363	ng	99
23) Atrazine	16.462	200	1269	0.435	ng	# 91
24) Pentachlorophenol	16.636	266	1565	0.901	ng	98
25) Phenanthrene	17.021	178	7297	0.418	ng	99
26) Anthracene	17.120	178	6246	0.392	ng	98
28) Fluoranthene	19.054	202	7085	0.367	ng	# 97
30) Pyrene	19.416	202	7143	0.424	ng	99
32) Benzo(a)anthracene	21.171	228	5416	0.434	ng	99
33) Chrysene	21.224	228	5649	0.407	ng	100
34) Bis(2-ethylhexyl)phtha...	21.117	149	3531	0.448	ng	99
36) Indeno(1,2,3-cd)pyrene	25.576	276	5130	0.406	ng	99
37) Benzo(b)fluoranthene	22.725	252	4923m	0.384	ng	
38) Benzo(k)fluoranthene	22.766	252	4787	0.366	ng	94
39) Benzo(a)pyrene	23.284	252	4119	0.383	ng	93
40) Dibenzo(a,h)anthracene	25.590	278	4003	0.411	ng	100
41) Benzo(g,h,i)perylene	26.245	276	4218	0.377	ng	99

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

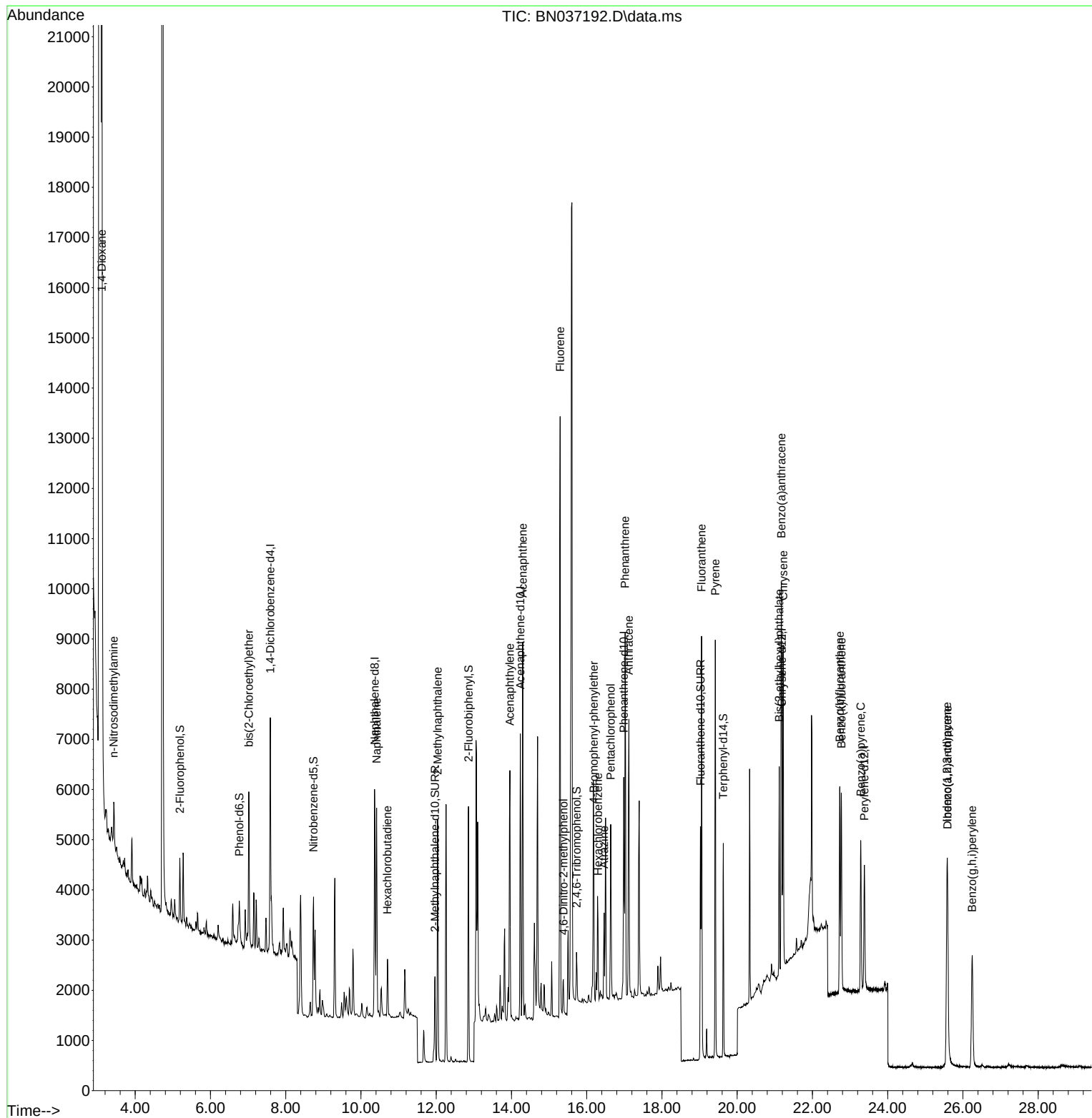
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
Data File : BN037192.D
Acq On : 09 Jun 2025 14:33
Operator : RC/JU
Sample : Q2250-02MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-11A-13.5-060525MS

Quant Time: Jun 09 15:40:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jun 04 01:52:03 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/10/2025
Supervised By :Jagrut Upadhyay 06/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037193.D
 Acq On : 09 Jun 2025 15:47
 Operator : RC/JU
 Sample : Q2250-03MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/10/2025
 Supervised By :Jagrut Upadhyay 06/10/2025

Quant Time: Jun 09 16:53:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.590	152	2169	0.400	ng	0.00
7) Naphthalene-d8	10.362	136	5646	0.400	ng	#-0.01
13) Acenaphthene-d10	14.235	164	2926	0.400	ng	0.00
19) Phenanthrene-d10	16.984	188	5139	0.400	ng	0.00
29) Chrysene-d12	21.180	240	3419	0.400	ng	# 0.00
35) Perylene-d12	23.374	264	3336	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.185	112	842	0.157	ng	0.00
5) Phenol-d6	6.773	99	692	0.106	ng	0.00
8) Nitrobenzene-d5	8.739	82	1894	0.318	ng	0.00
11) 2-Methylnaphthalene-d10	11.966	152	2373m	0.302	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	451	0.383	ng	-0.01
15) 2-Fluorobiphenyl	12.858	172	4311	0.346	ng	0.00
27) Fluoranthene-d10	19.022	212	4775	0.366	ng	0.00
31) Terphenyl-d14	19.630	244	3637	0.452	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.112	88	9354	3.235	ng	95
3) n-Nitrosodimethylamine	3.430	42	740	0.127	ng	# 83
6) bis(2-Chloroethyl)ether	7.019	93	2082	0.336	ng	97
9) Naphthalene	10.415	128	5110	0.314	ng	98
10) Hexachlorobutadiene	10.703	225	906	0.255	ng	# 98
12) 2-Methylnaphthalene	12.037	142	3210	0.307	ng	98
16) Acenaphthylene	13.957	152	5333	0.372	ng	100
17) Acenaphthene	14.299	154	3131	0.336	ng	99
18) Fluorene	15.293	166	4472	0.365	ng	98
20) 4,6-Dinitro-2-methylph...	15.379	198	471	0.587	ng	# 63
21) 4-Bromophenyl-phenylether	16.190	248	1330	0.395	ng	# 79
22) Hexachlorobenzene	16.301	284	1342	0.369	ng	98
23) Atrazine	16.463	200	1184	0.426	ng	# 93
24) Pentachlorophenol	16.636	266	1464	0.888	ng	98
25) Phenanthrene	17.021	178	6930	0.416	ng	99
26) Anthracene	17.120	178	5874	0.387	ng	98
28) Fluoranthene	19.054	202	6813	0.370	ng	# 97
30) Pyrene	19.417	202	6824	0.409	ng	100
32) Benzo(a)anthracene	21.171	228	5337	0.431	ng	100
33) Chrysene	21.216	228	5681	0.412	ng	98
34) Bis(2-ethylhexyl)phtha...	21.108	149	3448	0.442	ng	100
36) Indeno(1,2,3-cd)pyrene	25.573	276	5422	0.409	ng	99
37) Benzo(b)fluoranthene	22.720	252	5075m	0.377	ng	
38) Benzo(k)fluoranthene	22.761	252	5262	0.383	ng	95
39) Benzo(a)pyrene	23.281	252	4286	0.380	ng	# 88
40) Dibenzo(a,h)anthracene	25.585	278	4235	0.414	ng	99
41) Benzo(g,h,i)perylene	26.240	276	4499	0.383	ng	97

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

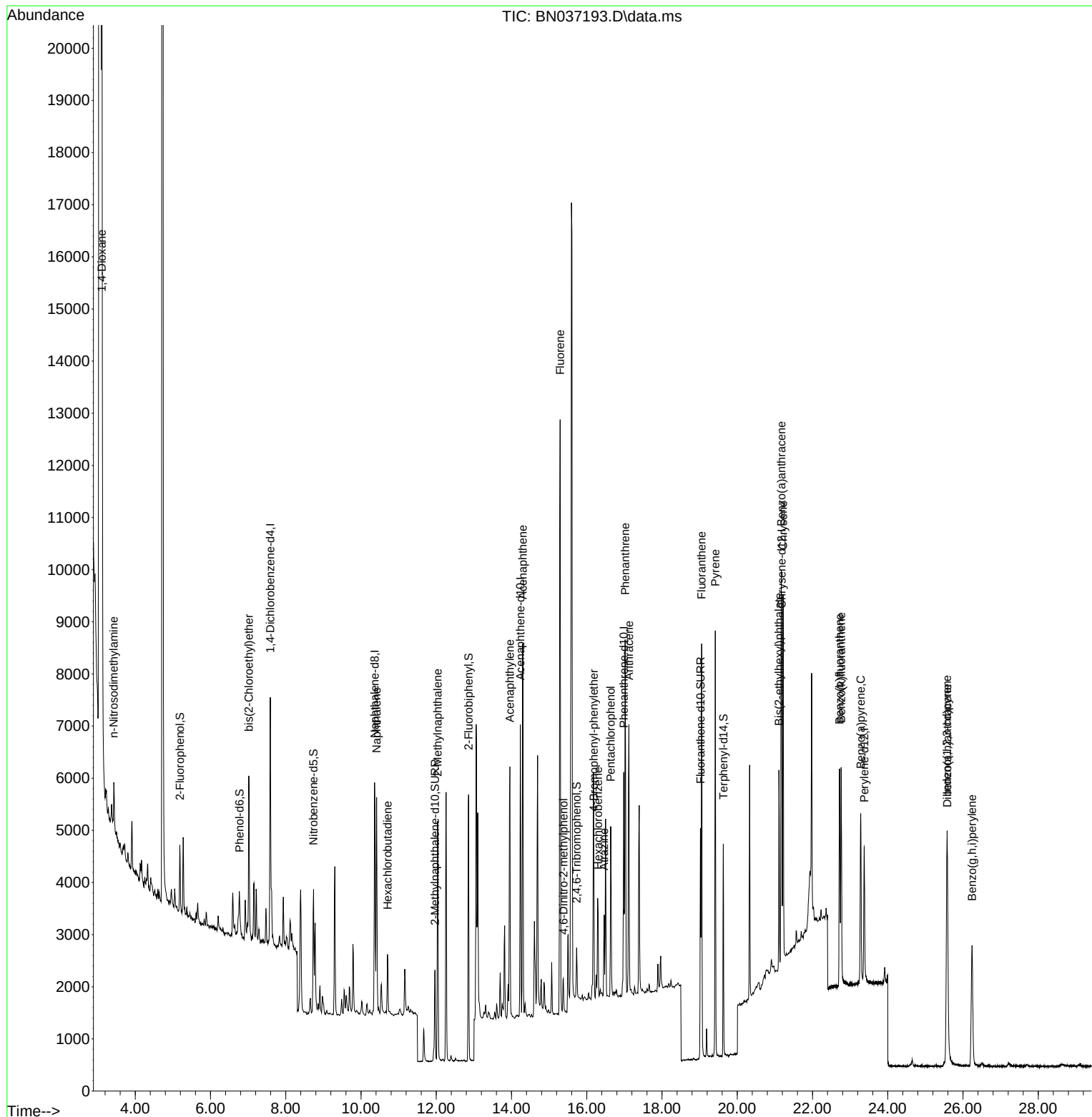
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN060925\
 Data File : BN037193.D
 Acq On : 09 Jun 2025 15:47
 Operator : RC/JU
 Sample : Q2250-03MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 MW-11A-13.5-060525MSD

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/10/2025
 Supervised By :Jagrut Upadhyay 06/10/2025

Quant Time: Jun 09 16:53:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN060325.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jun 04 01:52:03 2025
 Response via : Initial Calibration





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

Manual Integration Report

Sequence:

BN060325

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	BN060925	Instrument	BNA_n
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2250-02MS	BN037192.D	2-Methylnaphthalene-d10	Rahul	6/10/2025 11:44:39 AM	Jagrut	6/10/2025 1:37:49 PM	Peak Integrated by Software
Q2250-02MS	BN037192.D	Benzo(b)fluoranthene	Rahul	6/10/2025 11:44:39 AM	Jagrut	6/10/2025 1:37:49 PM	Peak Integrated by Software
Q2250-03MSD	BN037193.D	2-Methylnaphthalene-d10	Rahul	6/10/2025 11:44:42 AM	Jagrut	6/10/2025 1:37:52 PM	Peak Integrated by Software
Q2250-03MSD	BN037193.D	Benzo(b)fluoranthene	Rahul	6/10/2025 11:44:42 AM	Jagrut	6/10/2025 1:37:52 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037142.D	03 Jun 2025 10:21	RC/JU	Ok
2	SSTDIC0.1	BN037143.D	03 Jun 2025 11:39	RC/JU	Ok
3	SSTDIC0.2	BN037144.D	03 Jun 2025 12:15	RC/JU	Ok
4	SSTDIC0.4	BN037145.D	03 Jun 2025 12:51	RC/JU	Ok
5	SSTDIC0.8	BN037146.D	03 Jun 2025 13:26	RC/JU	Ok
6	SSTDIC1.6	BN037147.D	03 Jun 2025 14:02	RC/JU	Ok
7	SSTDIC3.2	BN037148.D	03 Jun 2025 14:38	RC/JU	Ok
8	SSTDIC5.0	BN037149.D	03 Jun 2025 15:14	RC/JU	Ok
9	SSTDICV0.4	BN037150.D	03 Jun 2025 15:53	RC/JU	Ok
10	PB168238BL	BN037151.D	03 Jun 2025 17:05	RC/JU	Not Ok
11	Q2181-01	BN037152.D	03 Jun 2025 17:41	RC/JU	Dilution
12	Q2181-01DL	BN037153.D	03 Jun 2025 18:18	RC/JU	Ok
13	SSTDIC0.4	BN037154.D	03 Jun 2025 18:54	RC/JU	Ok
14	DFTPP	BN037155.D	03 Jun 2025 20:10	RC/JU	Ok
15	SSTDIC0.4	BN037156.D	03 Jun 2025 20:49	RC/JU	Ok
16	PB168238BL	BN037157.D	03 Jun 2025 21:25	RC/JU	Not Ok
17	Q2162-03	BN037158.D	03 Jun 2025 22:01	RC/JU	Ok
18	Q2162-07	BN037159.D	03 Jun 2025 22:37	RC/JU	Ok
19	Q2162-09	BN037160.D	03 Jun 2025 23:13	RC/JU	Ok
20	Q2162-10	BN037161.D	03 Jun 2025 23:49	RC/JU	Ok
21	PB168238BS	BN037162.D	04 Jun 2025 00:25	RC/JU	Not Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	PB168238BSD	BN037163.D	04 Jun 2025 01:01	RC/JU	Not Ok
23	SSTDCCC0.4	BN037164.D	04 Jun 2025 02:13	RC/JU	Ok

M : Manual Integration

A
B
C
D
E
F
G
H
I
J
K

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN060925

Review By	Rahul	Review On	6/10/2025 11:45:37 AM
Supervise By	Jagrut	Supervise On	6/10/2025 1:38:10 PM
SubDirectory	BN060925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN037188.D	09 Jun 2025 10:15	RC/JU	Ok
2	SSTDCCC0.4	BN037189.D	09 Jun 2025 10:54	RC/JU	Ok
3	PB168336BL	BN037190.D	09 Jun 2025 11:30	RC/JU	Ok
4	Q2250-01	BN037191.D	09 Jun 2025 12:06	RC/JU	Ok
5	Q2250-02MS	BN037192.D	09 Jun 2025 14:33	RC/JU	Ok,M
6	Q2250-03MSD	BN037193.D	09 Jun 2025 15:47	RC/JU	Ok,M
7	Q2251-03	BN037194.D	09 Jun 2025 16:26	RC/JU	Ok
8	Q2251-05	BN037195.D	09 Jun 2025 17:02	RC/JU	Ok
9	Q2251-06	BN037196.D	09 Jun 2025 17:39	RC/JU	Ok
10	Q2253-01	BN037197.D	09 Jun 2025 18:15	RC/JU	Ok
11	Q2253-02	BN037198.D	09 Jun 2025 18:51	RC/JU	Ok
12	Q2250-05	BN037199.D	09 Jun 2025 19:27	RC/JU	Ok
13	Q2254-01	BN037200.D	09 Jun 2025 20:04	RC/JU	Ok
14	PB168336BS	BN037201.D	09 Jun 2025 20:40	RC/JU	Ok
15	SSTDCCC0.4	BN037202.D	09 Jun 2025 21:16	RC/JU	Ok
16	DFTPP	BN037203.D	09 Jun 2025 22:32	RC/JU	Ok
17	SSTDCCC0.4	BN037204.D	09 Jun 2025 23:11	RC/JU	Ok
18	PB168336BL	BN037205.D	09 Jun 2025 23:48	RC/JU	Not Ok
19	Q2234-01	BN037206.D	10 Jun 2025 00:24	RC/JU	Ok
20	Q2234-05	BN037207.D	10 Jun 2025 01:00	RC/JU	Ok
21	Q2234-06	BN037208.D	10 Jun 2025 01:36	RC/JU	Ok

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN060925

Review By	Rahul	Review On	6/10/2025 11:45:37 AM
Supervise By	Jagrut	Supervise On	6/10/2025 1:38:10 PM
SubDirectory	BN060925	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2234-07	BN037209.D	10 Jun 2025 02:12	RC/JU	Dilution
23	Q2250-04	BN037210.D	10 Jun 2025 02:49	RC/JU	Ok
24	Q2209-01	BN037211.D	10 Jun 2025 03:25	RC/JU	Ok
25	Q2210-01	BN037212.D	10 Jun 2025 04:01	RC/JU	Ok
26	Q2234-07DL	BN037213.D	10 Jun 2025 09:49	RC/JU	Ok
27	SSTDCCC0.4	BN037214.D	10 Jun 2025 10:25	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn060325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037142.D	03 Jun 2025 10:21		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037143.D	03 Jun 2025 11:39	Compound #20,24 removed from 0.1 PPM	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037144.D	03 Jun 2025 12:15		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037145.D	03 Jun 2025 12:51	Compound #20,24 kept on LR.	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037146.D	03 Jun 2025 13:26		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037147.D	03 Jun 2025 14:02		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037148.D	03 Jun 2025 14:38	Method is good for DOD and NONDOD.	RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037149.D	03 Jun 2025 15:14		RC/JU	Ok
9	SSTDICV0.4	ICVBN060325	BN037150.D	03 Jun 2025 15:53		RC/JU	Ok
10	PB168238BL	PB168238BL	BN037151.D	03 Jun 2025 17:05	Not Used	RC/JU	Not Ok
11	Q2181-01	38072-062624	BN037152.D	03 Jun 2025 17:41	Need 50X Dilution	RC/JU	Dilution
12	Q2181-01DL	38072-062624DL	BN037153.D	03 Jun 2025 18:18		RC/JU	Ok
13	SSTDCCC0.4	SSTDCCC0.4EC	BN037154.D	03 Jun 2025 18:54		RC/JU	Ok
14	DFTPP	DFTPP	BN037155.D	03 Jun 2025 20:10		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN037156.D	03 Jun 2025 20:49		RC/JU	Ok
16	PB168238BL	PB168238BL	BN037157.D	03 Jun 2025 21:25	Not Used	RC/JU	Not Ok
17	Q2162-03	BP-VPB-182-GW-580-5	BN037158.D	03 Jun 2025 22:01		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN060325

Review By	Rahul	Review On	6/4/2025 11:44:25 AM
Supervise By	Jagrut	Supervise On	6/5/2025 10:56:16 AM
SubDirectory	BN060325	HP Acquire Method	BNA_N, 8270_HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q2162-07	BP-VPB-182-GW-620-6	BN037159.D	03 Jun 2025 22:37		RC/JU	Ok
19	Q2162-09	BP-VPB-182-DUP-2025	BN037160.D	03 Jun 2025 23:13		RC/JU	Ok
20	Q2162-10	BP-VPB-182-EB-20250	BN037161.D	03 Jun 2025 23:49		RC/JU	Ok
21	PB168238BS	PB168238BS	BN037162.D	04 Jun 2025 00:25	Recovery Fail for 1,4 Dioxane from low side	RC/JU	Not Ok
22	PB168238BSD	PB168238BSD	BN037163.D	04 Jun 2025 01:01	Recovery Fail for 1,4 Dioxane from low side	RC/JU	Not Ok
23	SSTDCCC0.4	SSTDCCC0.4EC	BN037164.D	04 Jun 2025 02:13		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN060925

Review By	Rahul	Review On	6/10/2025 11:45:37 AM
Supervise By	Jagrut	Supervise On	6/10/2025 1:38:10 PM
SubDirectory	BN060925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn060325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN037188.D	09 Jun 2025 10:15		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037189.D	09 Jun 2025 10:54		RC/JU	Ok
3	PB168336BL	PB168336BL	BN037190.D	09 Jun 2025 11:30		RC/JU	Ok
4	Q2250-01	MW-11A-13.5-060525	BN037191.D	09 Jun 2025 12:06		RC/JU	Ok
5	Q2250-02MS	MW-11A-13.5-060525M	BN037192.D	09 Jun 2025 14:33		RC/JU	Ok,M
6	Q2250-03MSD	MW-11A-13.5-060525M	BN037193.D	09 Jun 2025 15:47		RC/JU	Ok,M
7	Q2251-03	BP-VPB-182-GW-760-7	BN037194.D	09 Jun 2025 16:26		RC/JU	Ok
8	Q2251-05	BP-VPB-182-EB-20250	BN037195.D	09 Jun 2025 17:02		RC/JU	Ok
9	Q2251-06	VPB182-HYD-2025060	BN037196.D	09 Jun 2025 17:39		RC/JU	Ok
10	Q2253-01	RW8-SP100-20250605	BN037197.D	09 Jun 2025 18:15		RC/JU	Ok
11	Q2253-02	RW8-SP303-20250605	BN037198.D	09 Jun 2025 18:51		RC/JU	Ok
12	Q2250-05	EB02-060525	BN037199.D	09 Jun 2025 19:27		RC/JU	Ok
13	Q2254-01	BP-VPB-182-GW-810-8	BN037200.D	09 Jun 2025 20:04		RC/JU	Ok
14	PB168336BS	PB168336BS	BN037201.D	09 Jun 2025 20:40		RC/JU	Ok
15	SSTDCCC0.4	SSTDCCC0.4EC	BN037202.D	09 Jun 2025 21:16		RC/JU	Ok
16	DFTPP	DFTPP	BN037203.D	09 Jun 2025 22:32		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4	BN037204.D	09 Jun 2025 23:11		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN060925

Review By	Rahul	Review On	6/10/2025 11:45:37 AM
Supervise By	Jagrut	Supervise On	6/10/2025 1:38:10 PM
SubDirectory	BN060925	HP Acquire Method	BNA_N, 8270_HP Processing Method bn060325
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	PB168336BL	PB168336BL	BN037205.D	09 Jun 2025 23:48	analyzed to check contamination.	RC/JU	Not Ok
19	Q2234-01	MW-17B-55-060425	BN037206.D	10 Jun 2025 00:24		RC/JU	Ok
20	Q2234-05	MW-18B-56-060425	BN037207.D	10 Jun 2025 01:00		RC/JU	Ok
21	Q2234-06	MW-18B-56-060425-FD	BN037208.D	10 Jun 2025 01:36		RC/JU	Ok
22	Q2234-07	MW-19B-72-060425	BN037209.D	10 Jun 2025 02:12	Need 2X dilutiion	RC/JU	Dilution
23	Q2250-04	MW-06-6.5-060525	BN037210.D	10 Jun 2025 02:49		RC/JU	Ok
24	Q2209-01	P01W	BN037211.D	10 Jun 2025 03:25		RC/JU	Ok
25	Q2210-01	TW1	BN037212.D	10 Jun 2025 04:01		RC/JU	Ok
26	Q2234-07DL	MW-19B-72-060425DL	BN037213.D	10 Jun 2025 09:49		RC/JU	Ok
27	SSTDCCC0.4	SSTDCCC0.4EC	BN037214.D	10 Jun 2025 10:25		RC/JU	Ok

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Welgh By: N/A **Extraction By:** RS

Balance check: N/A **Filter By:** RJ

Balance ID: N/A **pH Meter ID:** N/A

pH Strip Lot#: E3880 **Hood ID:** 4,5,6,7

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Extraction Start Date : 06/06/2025

Extraction Start Time : 11:54

Extraction End Date : 06/06/2025

Extraction End Time : 17:10

Concentration By: EH

Supervisor By : RUPESH

Standarded Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6758
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	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

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
6/6/25	RS (EXT-Lab)	JH / SVOC
17:15	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/06/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168336BL	SBLK336	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			SEP-1
PB168336BS	SLCS336	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1			2
Q2209-01	P01W	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	C		3
Q2210-01	TW1	SVOCMS Group2	1000	6	RUPESH	ritesh	1	E		4
Q2234-01	MW-17B-55-060425	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	H		5
Q2234-05	MW-18B-56-060425	SVOC-SIMGrou p1	970	11	RUPESH	ritesh	1	E		6
Q2234-06	MW-18B-56-060425-FD	SVOC-SIMGrou p1	1000	11	RUPESH	ritesh	1	E		7
Q2234-07	MW-19B-72-060425	SVOC-SIMGrou p1	980	6	RUPESH	ritesh	1	E		8
Q2250-01	MW-11A-13.5-060525	SVOC-SIMGrou p1	930	6	RUPESH	ritesh	1	E		9
Q2250-02	Q2250-01MS	SVOC-SIMGrou p1	960	6	RUPESH	ritesh	1	E		10
Q2250-03	Q2250-01MSD	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	E		11
Q2250-04	MW-06-6.5-060525	SVOC-SIMGrou p1	970	6	RUPESH	ritesh	1	A		12
Q2250-05	EB02-060525	SVOC-SIMGrou p1	990	6	RUPESH	ritesh	1	J		13
Q2251-03	BP-VPB-182-GW-760-762	SVOC-SIMGrou p1	850	6	RUPESH	ritesh	1	C		14
Q2251-05	BP-VPB-182-EB-20250604	SVOC-SIMGrou p1	870	6	RUPESH	ritesh	1	C		15
Q2251-06	VPB182-HYD-20250605	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1	C		16
Q2253-01	RW8-SP100-20250605	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	B		SEP-1
Q2253-02	~~RW8-SP100-20250605~~ RW8-SP103-20250605	SVOC-SIMGrou p1	1000	6	RUPESH	ritesh	1	D		2
Q2254-01	BP-VPB-182-GW-810-812	SVOC-SIMGrou p1	890	6	RUPESH	ritesh	1			3

* Extracts relinquished on the same date as received.

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2250 WorkList ID : 190013 Department : Extraction Date : 06-06-2025 11:47:44

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2209-01	P01W	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	N31	06/04/2025	8270-Modified
Q2210-01	TW1	Water	SVOCMS Group2	Cool 4 deg C	GENV01	L31	06/03/2025	8270-Modified
Q2234-01	MW-17B-55-060425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	N31	06/04/2025	8270-Modified
Q2234-05	MW-18B-56-060425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	N31	06/04/2025	8270-Modified
Q2234-06	MW-18B-56-060425-FD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	N31	06/04/2025	8270-Modified
Q2234-07	MW-19B-72-060425	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	N31	06/04/2025	8270-Modified
Q2250-01	MW-11A-13.5-060525	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D22	06/05/2025	8270-Modified
Q2250-02	Q2250-01MS	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D22	06/05/2025	8270-Modified
Q2250-03	Q2250-01MSD	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D22	06/05/2025	8270-Modified
Q2250-04	MW-06-6.5-060525	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D22	06/05/2025	8270-Modified
Q2250-05	EB02-060525	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D22	06/05/2025	8270-Modified
Q2251-03	BP-VPB-182-GW-760-762	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	L31	06/03/2025	8270-Modified
Q2251-05	BP-VPB-182-EB-20250604	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	L31	06/04/2025	8270-Modified
Q2251-06	VPB 182-HYD-20250605	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	L31	06/05/2025	8270-Modified
Q2253-01	RW8-SP100-20250605	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	D21	06/05/2025	8270-Modified
Q2253-02	~~RW8-SP100-20250605~~ RW8-SP100-20250605	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	D21	06/05/2025	8270-Modified
Q2254-01	BP-VPB-182-GW-810-812	Water	SVOC-SIMGroup1	Cool 4 deg C	TETRO6	D21	06/05/2025	8270-Modified

Date/Time 6/6/25 11:47
Raw Sample Received by: RS (Ext-606)
Raw Sample Relinquished by: JDCSM

Date/Time 6/6/25 12:45
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RS (Ext-606)

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-01	MW-11A-13.5-060525	Water	SVOC-SIMGroup1	8270-Modified	06/05/25	06/06/25	06/09/25	06/05/25
Q2250-04	MW-06-6.5-060525	Water	SVOC-SIMGroup1	8270-Modified	06/05/25	06/06/25	06/10/25	06/05/25
Q2250-05	EB02-060525	Water	SVOC-SIMGroup1	8270-Modified	06/05/25	06/06/25	06/09/25	06/05/25



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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: Q2250 **Order ID:** Q2250
Client: JACOBS Engineering Group, Inc. **Project ID:** Former Schlumberger STC PTC Site D386

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : EB02-060525								
Q2250-05	EB02-060525	Water	Aluminum	2.09	J	1.94	20.0	ug/L
Q2250-05	EB02-060525	Water	Barium	0.68	J	0.21	10.0	ug/L
Q2250-05	EB02-060525	Water	Manganese	0.92	J	0.43	1.00	ug/L



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	2.09	J	1	1.94	20.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-36-0	Antimony	0.11	U	1	0.11	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-38-2	Arsenic	0.089	UN*	1	0.089	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-39-3	Barium	0.68	J	1	0.21	10.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-41-7	Beryllium	0.32	U	1	0.32	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-43-9	Cadmium	0.34	U	1	0.34	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-70-2	Calcium	45.7	U	1	45.7	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-47-3	Chromium	0.21	U	1	0.21	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-48-4	Cobalt	0.070	U	1	0.070	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-50-8	Copper	0.30	U	1	0.30	2.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-89-6	Iron	7.81	U	1	7.81	50.0	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-92-1	Lead	0.21	U	1	0.21	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-95-4	Magnesium	19.5	U	1	19.5	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-96-5	Manganese	0.92	J	1	0.43	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7439-97-6	Mercury	0.076	UN	1	0.076	0.20	ug/L	06/09/25 15:15	06/10/25 13:37	7470A	
7440-02-0	Nickel	0.27	U	1	0.27	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-09-7	Potassium	36.4	U	1	36.4	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7782-49-2	Selenium	2.90	U	1	2.90	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-22-4	Silver	0.060	UN	1	0.060	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-23-5	Sodium	128	U	1	128	500	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-28-0	Thallium	0.060	U	1	0.060	1.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-62-2	Vanadium	0.077	U	1	0.077	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A
7440-66-6	Zinc	1.25	U	1	1.25	5.00	ug/L	06/09/25 12:20	06/11/25 21:27	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	METALS-TAL			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7439-89-6	Iron	7.81	U	1	7.81	50.0	ug/L	06/09/25 12:20	06/11/25 21:30	6020B	3010A

Color Before:	Colorless	Clarity Before:	Clear	Texture:
Color After:	Colorless	Clarity After:	Clear	Artifacts:
Comments:	Dissolved Metals Group3			

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 D = Dilution
 Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 * = indicates the duplicate analysis is not within control limits.
 E = Indicates the reported value is estimated because of the presence of interference.
 OR = Over Range
 N =Spiked sample recovery not within control limits



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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB31	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	10:41	LB136079

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB17	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	10:48	LB136079
CCB18	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	11:37	LB136079
CCB19	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	12:14	LB136079
CCB20	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	12:59	LB136079
CCB21	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	13:32	LB136079
CCB22	Mercury	0.076	+/-0.2	U	0.20	CV	06/10/2025	14:30	LB136079

Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:07	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:07	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:07	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:07	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:07	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	19:07	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:07	LB136121

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2250							
Contract: JACO05	Lab Code: CHEM	Case No.: Q2250	SAS No.: Q2250						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:35	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:35	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:35	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:35	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:35	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:35	LB136121
	Thallium	0.060	+/-0.5	J	1.00	P	06/11/2025	19:35	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:35	LB136121
CCB02	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	19:58	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	19:58	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	19:58	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	19:58	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.		SDG No.: Q2250							
Contract: JACO05	Lab Code: CHEM	Case No.: Q2250	SAS No.: Q2250						
Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	19:58	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	19:58	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	19:58	LB136121
CCB03	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	20:41	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	20:41	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	20:41	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	20:41	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	20:41	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	20:41	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	20:41	LB136121
CCB04	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	21:23	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	21:23	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	21:23	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	21:23	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121

Metals

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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Magnesium	19.5	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	21:23	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	21:23	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	21:23	LB136121
CCB05	Aluminum	1.94	+/-10	U	20.0	P	06/11/2025	21:45	LB136121
	Antimony	0.11	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Arsenic	0.089	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Barium	0.21	+/-5	U	10.0	P	06/11/2025	21:45	LB136121
	Beryllium	0.32	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Cadmium	0.34	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Calcium	45.7	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Chromium	0.21	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Cobalt	0.070	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Copper	0.30	+/-1	U	2.00	P	06/11/2025	21:45	LB136121
	Iron	7.81	+/-25	U	50.0	P	06/11/2025	21:45	LB136121
	Lead	0.21	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Magnesium	19.5	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Manganese	0.43	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Nickel	0.27	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Potassium	36.4	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Selenium	2.90	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121
	Silver	0.060	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Sodium	128	+/-250	U	500	P	06/11/2025	21:45	LB136121
	Thallium	0.060	+/-0.5	U	1.00	P	06/11/2025	21:45	LB136121
	Vanadium	0.077	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121
	Zinc	1.25	+/-2.5	U	5.00	P	06/11/2025	21:45	LB136121

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Instrument: CV1

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168379BL		WATER		Batch Number:	PB168379		Prep Date:	06/09/2025	
	Mercury	0.076	<0.2	U	0.20	CV	06/10/2025	13:13	LB136079

Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Instrument: P7

Sample ID	Analyte	Result (ug/L)	Acceptance Limit	Conc Qual	CRQL ug/L	M	Analysis Date	Analysis Time	Run
PB168360BL	WATER			Batch Number:	PB168360		Prep Date:	06/09/2025	
	Aluminum	1.94	<10	U	20.0	P	06/11/2025	20:02	LB136121
	Antimony	0.11	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Arsenic	0.089	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Barium	0.21	<5	U	10.0	P	06/11/2025	20:02	LB136121
	Beryllium	0.32	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Cadmium	0.34	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Calcium	45.7	<250	U	500	P	06/11/2025	20:02	LB136121
	Chromium	0.21	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Cobalt	0.070	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Copper	0.30	<1	U	2.00	P	06/11/2025	20:02	LB136121
	Iron	7.81	<25	U	50.0	P	06/11/2025	20:02	LB136121
	Lead	0.21	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Magnesium	19.5	<250	U	500	P	06/11/2025	20:02	LB136121
	Manganese	0.43	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Nickel	0.27	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Potassium	36.4	<250	U	500	P	06/11/2025	20:02	LB136121
	Selenium	2.90	<2.5	U	5.00	P	06/11/2025	20:02	LB136121
	Silver	0.060	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Sodium	128	<250	U	500	P	06/11/2025	20:02	LB136121
	Thallium	0.060	<0.5	U	1.00	P	06/11/2025	20:02	LB136121
	Vanadium	0.077	<2.5	U	5.00	P	06/11/2025	20:02	LB136121
	Zinc	1.25	<2.5	U	5.00	P	06/11/2025	20:02	LB136121



METAL CALIBRATION DATA

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV31	Mercury	4.04	4.0	101	90 - 110	CV	06/10/2025	10:39	LB136079

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV17	Mercury	4.62	5.0	92	90 - 110	CV	06/10/2025	10:43	LB136079
CCV18	Mercury	4.87	5.0	98	90 - 110	CV	06/10/2025	11:32	LB136079
CCV19	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	12:12	LB136079
CCV20	Mercury	4.67	5.0	93	90 - 110	CV	06/10/2025	12:57	LB136079
CCV21	Mercury	5.40	5.0	108	90 - 110	CV	06/10/2025	13:30	LB136079
CCV22	Mercury	4.85	5.0	97	90 - 110	CV	06/10/2025	14:28	LB136079

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	461	500	92	90 - 110	P	06/11/2025	18:48	LB136121
	Antimony	191	200	95	90 - 110	P	06/11/2025	18:48	LB136121
	Arsenic	215	200	107	90 - 110	P	06/11/2025	18:48	LB136121
	Barium	98.7	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Beryllium	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Cadmium	108	100	108	90 - 110	P	06/11/2025	18:48	LB136121
	Calcium	1960	2000	98	90 - 110	P	06/11/2025	18:48	LB136121
	Chromium	101	100	101	90 - 110	P	06/11/2025	18:48	LB136121
	Cobalt	105	100	105	90 - 110	P	06/11/2025	18:48	LB136121
	Copper	99.0	100	99	90 - 110	P	06/11/2025	18:48	LB136121
	Iron	2000	2000	100	90 - 110	P	06/11/2025	18:48	LB136121
	Lead	186	200	93	90 - 110	P	06/11/2025	18:48	LB136121
	Magnesium	1090	1200	91	90 - 110	P	06/11/2025	18:48	LB136121
	Manganese	100	100	100	90 - 110	P	06/11/2025	18:48	LB136121
	Nickel	112	110	102	90 - 110	P	06/11/2025	18:48	LB136121
	Potassium	1940	2000	97	90 - 110	P	06/11/2025	18:48	LB136121
	Selenium	194	200	97	90 - 110	P	06/11/2025	18:48	LB136121
	Silver	46.7	50.0	93	90 - 110	P	06/11/2025	18:48	LB136121
	Sodium	1900	2000	95	90 - 110	P	06/11/2025	18:48	LB136121
	Thallium	194	210	92	90 - 110	P	06/11/2025	18:48	LB136121
	Vanadium	97.6	100	98	90 - 110	P	06/11/2025	18:48	LB136121
	Zinc	197	200	99	90 - 110	P	06/11/2025	18:48	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250

Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	16.7	20.0	83	80 - 120	P	06/11/2025	19:00	LB136121
	Antimony	2.00	2.0	100	80 - 120	P	06/11/2025	19:00	LB136121
	Arsenic	1.15	1.0	115	80 - 120	P	06/11/2025	19:00	LB136121
	Barium	9.49	10.0	95	80 - 120	P	06/11/2025	19:00	LB136121
	Beryllium	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Cadmium	1.06	1.0	106	80 - 120	P	06/11/2025	19:00	LB136121
	Calcium	474	500	95	80 - 120	P	06/11/2025	19:00	LB136121
	Chromium	1.84	2.0	92	80 - 120	P	06/11/2025	19:00	LB136121
	Cobalt	0.99	1.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Copper	1.98	2.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Iron	52.6	50.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Lead	0.90	1.0	90	80 - 120	P	06/11/2025	19:00	LB136121
	Magnesium	430	500	86	80 - 120	P	06/11/2025	19:00	LB136121
	Manganese	1.10	1.0	110	80 - 120	P	06/11/2025	19:00	LB136121
	Nickel	1.05	1.0	105	80 - 120	P	06/11/2025	19:00	LB136121
	Potassium	485	500	97	80 - 120	P	06/11/2025	19:00	LB136121
	Selenium	5.98	5.0	120	80 - 120	P	06/11/2025	19:00	LB136121
	Silver	1.07	1.0	107	80 - 120	P	06/11/2025	19:00	LB136121
	Sodium	471	500	94	80 - 120	P	06/11/2025	19:00	LB136121
	Thallium	0.88	1.0	88	80 - 120	P	06/11/2025	19:00	LB136121
	Vanadium	4.94	5.0	99	80 - 120	P	06/11/2025	19:00	LB136121
	Zinc	5.06	5.0	101	80 - 120	P	06/11/2025	19:00	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	49600	50000	99	90 - 110	P	06/11/2025	19:29	LB136121
	Antimony	523	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Arsenic	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Barium	2620	2500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Beryllium	527	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Cadmium	503	500	101	90 - 110	P	06/11/2025	19:29	LB136121
	Calcium	259000	250000	104	90 - 110	P	06/11/2025	19:29	LB136121
	Chromium	466	500	93	90 - 110	P	06/11/2025	19:29	LB136121
	Cobalt	460	500	92	90 - 110	P	06/11/2025	19:29	LB136121
	Copper	4770	5000	95	90 - 110	P	06/11/2025	19:29	LB136121
	Iron	127000	125000	102	90 - 110	P	06/11/2025	19:29	LB136121
	Lead	2650	2500	106	90 - 110	P	06/11/2025	19:29	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	19:29	LB136121
	Manganese	5010	5000	100	90 - 110	P	06/11/2025	19:29	LB136121
	Nickel	483	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Potassium	126000	125000	101	90 - 110	P	06/11/2025	19:29	LB136121
	Selenium	487	500	97	90 - 110	P	06/11/2025	19:29	LB136121
	Silver	536	500	107	90 - 110	P	06/11/2025	19:29	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:29	LB136121
	Thallium	525	500	105	90 - 110	P	06/11/2025	19:29	LB136121
	Vanadium	471	500	94	90 - 110	P	06/11/2025	19:29	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:29	LB136121
CCV02	Aluminum	50800	50000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Antimony	509	500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Arsenic	493	500	99	90 - 110	P	06/11/2025	19:52	LB136121
	Barium	2560	2500	102	90 - 110	P	06/11/2025	19:52	LB136121
	Beryllium	502	500	100	90 - 110	P	06/11/2025	19:52	LB136121
	Cadmium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Calcium	248000	250000	99	90 - 110	P	06/11/2025	19:52	LB136121
	Chromium	472	500	94	90 - 110	P	06/11/2025	19:52	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	19:52	LB136121
	Copper	4890	5000	98	90 - 110	P	06/11/2025	19:52	LB136121
	Iron	130000	125000	104	90 - 110	P	06/11/2025	19:52	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	19:52	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250

Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	241000	250000	96	90 - 110	P	06/11/2025	19:52	LB136121
	Manganese	5000	5000	100	90 - 110	P	06/11/2025	19:52	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	19:52	LB136121
	Potassium	128000	125000	102	90 - 110	P	06/11/2025	19:52	LB136121
	Selenium	485	500	97	90 - 110	P	06/11/2025	19:52	LB136121
	Silver	515	500	103	90 - 110	P	06/11/2025	19:52	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	19:52	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	19:52	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	19:52	LB136121
	Zinc	4650	5000	93	90 - 110	P	06/11/2025	19:52	LB136121
CCV03	Aluminum	49100	50000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Antimony	500	500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Arsenic	486	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Barium	2510	2500	100	90 - 110	P	06/11/2025	20:35	LB136121
	Beryllium	509	500	102	90 - 110	P	06/11/2025	20:35	LB136121
	Cadmium	479	500	96	90 - 110	P	06/11/2025	20:35	LB136121
	Calcium	253000	250000	101	90 - 110	P	06/11/2025	20:35	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Cobalt	463	500	93	90 - 110	P	06/11/2025	20:35	LB136121
	Copper	4870	5000	98	90 - 110	P	06/11/2025	20:35	LB136121
	Iron	129000	125000	103	90 - 110	P	06/11/2025	20:35	LB136121
	Lead	2570	2500	103	90 - 110	P	06/11/2025	20:35	LB136121
	Magnesium	233000	250000	93	90 - 110	P	06/11/2025	20:35	LB136121
	Manganese	4980	5000	100	90 - 110	P	06/11/2025	20:35	LB136121
	Nickel	487	500	97	90 - 110	P	06/11/2025	20:35	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	20:35	LB136121
	Selenium	471	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Silver	505	500	101	90 - 110	P	06/11/2025	20:35	LB136121
	Sodium	227000	250000	91	90 - 110	P	06/11/2025	20:35	LB136121
	Thallium	521	500	104	90 - 110	P	06/11/2025	20:35	LB136121
CCV04	Vanadium	472	500	94	90 - 110	P	06/11/2025	20:35	LB136121
	Zinc	4730	5000	94	90 - 110	P	06/11/2025	20:35	LB136121
	Aluminum	50000	50000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Antimony	495	500	99	90 - 110	P	06/11/2025	21:16	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250
Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250
Initial Calibration Source: EPA
Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	483	500	97	90 - 110	P	06/11/2025	21:16	LB136121
	Barium	2500	2500	100	90 - 110	P	06/11/2025	21:16	LB136121
	Beryllium	512	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Cadmium	474	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Calcium	250000	250000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Chromium	471	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:16	LB136121
	Copper	4900	5000	98	90 - 110	P	06/11/2025	21:16	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:16	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:16	LB136121
	Magnesium	235000	250000	94	90 - 110	P	06/11/2025	21:16	LB136121
	Manganese	5030	5000	100	90 - 110	P	06/11/2025	21:16	LB136121
	Nickel	490	500	98	90 - 110	P	06/11/2025	21:16	LB136121
	Potassium	127000	125000	102	90 - 110	P	06/11/2025	21:16	LB136121
	Selenium	469	500	94	90 - 110	P	06/11/2025	21:16	LB136121
	Silver	509	500	102	90 - 110	P	06/11/2025	21:16	LB136121
	Sodium	230000	250000	92	90 - 110	P	06/11/2025	21:16	LB136121
	Thallium	523	500	105	90 - 110	P	06/11/2025	21:16	LB136121
	Vanadium	476	500	95	90 - 110	P	06/11/2025	21:16	LB136121
	Zinc	4750	5000	95	90 - 110	P	06/11/2025	21:16	LB136121
CCV05	Aluminum	49800	50000	100	90 - 110	P	06/11/2025	21:34	LB136121
	Antimony	511	500	102	90 - 110	P	06/11/2025	21:34	LB136121
	Arsenic	485	500	97	90 - 110	P	06/11/2025	21:34	LB136121
	Barium	2530	2500	101	90 - 110	P	06/11/2025	21:34	LB136121
	Beryllium	513	500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Cadmium	489	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Calcium	247000	250000	99	90 - 110	P	06/11/2025	21:34	LB136121
	Chromium	468	500	94	90 - 110	P	06/11/2025	21:34	LB136121
	Cobalt	465	500	93	90 - 110	P	06/11/2025	21:34	LB136121
	Copper	4920	5000	98	90 - 110	P	06/11/2025	21:34	LB136121
	Iron	128000	125000	103	90 - 110	P	06/11/2025	21:34	LB136121
	Lead	2580	2500	103	90 - 110	P	06/11/2025	21:34	LB136121
	Magnesium	234000	250000	94	90 - 110	P	06/11/2025	21:34	LB136121
	Manganese	5030	5000	101	90 - 110	P	06/11/2025	21:34	LB136121

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: JACOBS Engineering Group, Inc. SDG No.: Q2250

Contract: JACO05 Lab Code: CHEM Case No.: Q2250 SAS No.: Q2250

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV05	Nickel	491	500	98	90 - 110	P	06/11/2025	21:34	LB136121
	Potassium	130000	125000	104	90 - 110	P	06/11/2025	21:34	LB136121
	Selenium	482	500	96	90 - 110	P	06/11/2025	21:34	LB136121
	Silver	525	500	105	90 - 110	P	06/11/2025	21:34	LB136121
	Sodium	228000	250000	91	90 - 110	P	06/11/2025	21:34	LB136121
	Thallium	522	500	104	90 - 110	P	06/11/2025	21:34	LB136121
	Vanadium	475	500	95	90 - 110	P	06/11/2025	21:34	LB136121
	Zinc	4830	5000	97	90 - 110	P	06/11/2025	21:34	LB136121



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

Metals

- 2b -

CRDL STANDARD FOR AA & ICP

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Initial Calibration Source: _____
Continuing Calibration Source: _____

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.20	0.2	102	70 - 130	CV	06/10/2025	10:56	LB136079
CRI	Aluminum	16.6	20.0	83	70 - 130	P	06/11/2025	19:39	LB136121
	Antimony	1.95	2.0	98	70 - 130	P	06/11/2025	19:39	LB136121
	Arsenic	1.09	1.0	109	70 - 130	P	06/11/2025	19:39	LB136121
	Barium	9.40	10.0	94	70 - 130	P	06/11/2025	19:39	LB136121
	Beryllium	1.03	1.0	103	70 - 130	P	06/11/2025	19:39	LB136121
	Cadmium	0.99	1.0	99	70 - 130	P	06/11/2025	19:39	LB136121
	Calcium	468	500	94	70 - 130	P	06/11/2025	19:39	LB136121
	Chromium	1.98	2.0	99	70 - 130	P	06/11/2025	19:39	LB136121
	Cobalt	1.02	1.0	102	50 - 150	P	06/11/2025	19:39	LB136121
	Copper	2.10	2.0	105	70 - 130	P	06/11/2025	19:39	LB136121
	Iron	51.8	50.0	104	70 - 130	P	06/11/2025	19:39	LB136121
	Lead	0.93	1.0	93	70 - 130	P	06/11/2025	19:39	LB136121
	Magnesium	435	500	87	70 - 130	P	06/11/2025	19:39	LB136121
	Manganese	1.23	1.0	123	50 - 150	P	06/11/2025	19:39	LB136121
	Nickel	1.00	1.0	100	70 - 130	P	06/11/2025	19:39	LB136121
	Potassium	490	500	98	70 - 130	P	06/11/2025	19:39	LB136121
	Selenium	6.05	5.0	121	70 - 130	P	06/11/2025	19:39	LB136121
	Silver	1.02	1.0	102	70 - 130	P	06/11/2025	19:39	LB136121
	Sodium	489	500	98	70 - 130	P	06/11/2025	19:39	LB136121
	Thallium	0.97	1.0	97	70 - 130	P	06/11/2025	19:39	LB136121
	Vanadium	4.87	5.0	97	70 - 130	P	06/11/2025	19:39	LB136121
	Zinc	5.22	5.0	104	50 - 150	P	06/11/2025	19:39	LB136121

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	93400	100000	93	0	0	06/11/2025	19:10	LB136121
	Antimony	1.10	1.5	73	-2.5	5.5	06/11/2025	19:10	LB136121
	Arsenic	0.34	0.1	340	-1.9	2.1	06/11/2025	19:10	LB136121
	Barium	1.35	1.2	112	-18.8	21.2	06/11/2025	19:10	LB136121
	Beryllium	0.26			-2	2	06/11/2025	19:10	LB136121
	Cadmium	0.23	0.7	33	-1.3	2.7	06/11/2025	19:10	LB136121
	Calcium	102000	100000	102	0	0	06/11/2025	19:10	LB136121
	Chromium	20.3	21.0	97	17	25	06/11/2025	19:10	LB136121
	Cobalt	1.30	1.0	130	-1	3	06/11/2025	19:10	LB136121
	Copper	8.65	8.0	108	4	12	06/11/2025	19:10	LB136121
	Iron	103000	100000	103	0	0	06/11/2025	19:10	LB136121
	Lead	4.17	4.0	104	2	6	06/11/2025	19:10	LB136121
	Magnesium	93800	100000	94	0	0	06/11/2025	19:10	LB136121
	Manganese	7.75	7.0	111	5	9	06/11/2025	19:10	LB136121
	Nickel	5.88	6.0	98	4	8	06/11/2025	19:10	LB136121
	Potassium	106000	100000	106	0	0	06/11/2025	19:10	LB136121
	Selenium	0.94	0.3	313	-9.7	10	06/11/2025	19:10	LB136121
	Silver	0.050			-2	2	06/11/2025	19:10	LB136121
	Sodium	108000	100000	108	0	0	06/11/2025	19:10	LB136121
	Thallium	0.050			-2	2	06/11/2025	19:10	LB136121
	Vanadium	0.19	0.5	38	-9.5	10.5	06/11/2025	19:10	LB136121
	Zinc	10.8	11.0	98	1	21	06/11/2025	19:10	LB136121
ICSAB01	Aluminum	90200	100000	90	0	0	06/11/2025	19:13	LB136121
	Antimony	20.6	22.0	94	18	26	06/11/2025	19:13	LB136121
	Arsenic	21.1	19.0	111	16.2	21.9	06/11/2025	19:13	LB136121
	Barium	20.7	22.0	94	2	42	06/11/2025	19:13	LB136121
	Beryllium	20.3	19.0	107	16.2	21.9	06/11/2025	19:13	LB136121
	Cadmium	20.8	20.0	104	17	23	06/11/2025	19:13	LB136121
	Calcium	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Chromium	40.4	40.0	101	34	46	06/11/2025	19:13	LB136121
	Cobalt	21.2	20.0	106	17	23	06/11/2025	19:13	LB136121
	Copper	28.2	25.0	113	21	29	06/11/2025	19:13	LB136121
	Iron	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Lead	25.2	25.0	101	21.3	28.8	06/11/2025	19:13	LB136121
	Magnesium	90700	100000	91	0	0	06/11/2025	19:13	LB136121
	Manganese	27.2	27.0	101	23	31.1	06/11/2025	19:13	LB136121
	Nickel	26.7	24.0	111	20.4	27.6	06/11/2025	19:13	LB136121
	Potassium	102000	100000	102	0	0	06/11/2025	19:13	LB136121
	Selenium	19.8	19.0	104	9	29	06/11/2025	19:13	LB136121
	Silver	20.3	18.0	113	15.3	20.7	06/11/2025	19:13	LB136121
	Sodium	107000	100000	107	0	0	06/11/2025	19:13	LB136121
	Thallium	19.1	21.0	91	17.9	24.2	06/11/2025	19:13	LB136121

Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
ICS Source: EPA **Instrument ID:** P7

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSAB01	Vanadium	20.1	19.0	106	9	29	06/11/2025	19:13	LB136121
	Zinc	30.6	29.0	106	19	39	06/11/2025	19:13	LB136121



METAL QC DATA

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-01</u>	client id:	<u>MW-17B-55-060425MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-02</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	7550		68.7		10000	75		P
Antimony	ug/L	75 - 125	492		0.39	J	500	98		P
Arsenic	ug/L	75 - 125	0.97	J	0.94	J	500	0	N	P
Barium	ug/L	75 - 125	2620		461		2500	86		P
Beryllium	ug/L	75 - 125	494		1.00	U	500	99		P
Cadmium	ug/L	75 - 125	478		1.00	U	500	96		P
Calcium	ug/L	75 - 125	77700		32000		50000	91		P
Chromium	ug/L	75 - 125	442		0.21	J	500	88		P
Cobalt	ug/L	75 - 125	471		8.11		500	93		P
Copper	ug/L	75 - 125	4710		2.00	U	5000	94		P
Iron	ug/L	75 - 125	26600		6790		25000	79		P
Lead	ug/L	75 - 125	2410		1.00	U	2500	96		P
Magnesium	ug/L	75 - 125	53400		9240		50000	88		P
Manganese	ug/L	75 - 125	5390		621		5000	95		P
Nickel	ug/L	75 - 125	481		12.1		500	94		P
Potassium	ug/L	75 - 125	29800		9030		25000	83		P
Selenium	ug/L	75 - 125	483		5.00	U	500	97		P
Silver	ug/L	75 - 125	82.8		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	56400		8060		50000	97		P
Thallium	ug/L	75 - 125	477		0.22	J	500	95		P
Vanadium	ug/L	75 - 125	458		0.73	J	500	91		P
Zinc	ug/L	75 - 125	4910		5.06		5000	98		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-01</u>	client id:	<u>MW-17B-55-060425MSD</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-03</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	7550		68.7		10000	75		P
Antimony	ug/L	75 - 125	492		0.39	J	500	98		P
Arsenic	ug/L	75 - 125	0.92	J	0.94	J	500	0	N	P
Barium	ug/L	75 - 125	2650		461		2500	88		P
Beryllium	ug/L	75 - 125	488		1.00	U	500	98		P
Cadmium	ug/L	75 - 125	480		1.00	U	500	96		P
Calcium	ug/L	75 - 125	76600		32000		50000	89		P
Chromium	ug/L	75 - 125	434		0.21	J	500	87		P
Cobalt	ug/L	75 - 125	455		8.11		500	89		P
Copper	ug/L	75 - 125	4750		2.00	U	5000	95		P
Iron	ug/L	75 - 125	26600		6790		25000	79		P
Lead	ug/L	75 - 125	2390		1.00	U	2500	96		P
Magnesium	ug/L	75 - 125	53300		9240		50000	88		P
Manganese	ug/L	75 - 125	5450		621		5000	97		P
Nickel	ug/L	75 - 125	482		12.1		500	94		P
Potassium	ug/L	75 - 125	29800		9030		25000	83		P
Selenium	ug/L	75 - 125	484		5.00	U	500	97		P
Silver	ug/L	75 - 125	82.4		1.00	U	500	16	N	P
Sodium	ug/L	75 - 125	57000		8060		50000	98		P
Thallium	ug/L	75 - 125	487		0.22	J	500	97		P
Vanadium	ug/L	75 - 125	453		0.73	J	500	91		P
Zinc	ug/L	75 - 125	4920		5.06		5000	98		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client:	<u>JACOBS Engineering Group, Inc.</u>	level:	<u>low</u>	sdg no.:	<u>Q2250</u>
contract:	<u>JACO05</u>	lab code:	<u>CHEM</u>	case no.:	<u>Q2250</u>
matrix:	<u>Water</u>	sample id:	<u>Q2234-08</u>	client id:	<u>MW-17B-55-060425MS</u>
Percent Solids for Sample:	<u>NA</u>	Spiked ID:	<u>Q2234-09</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	7720		17.9	J	10000	77		P
Antimony	ug/L	75 - 125	509		0.28	J	500	102		P
Arsenic	ug/L	75 - 125	0.90	J	0.88	J	500	0	N	P
Barium	ug/L	75 - 125	2730		462		2500	91		P
Beryllium	ug/L	75 - 125	498		1.00	U	500	100		P
Cadmium	ug/L	75 - 125	496		1.00	U	500	99		P
Calcium	ug/L	75 - 125	79400		34100		50000	91		P
Chromium	ug/L	75 - 125	454		2.00	U	500	91		P
Cobalt	ug/L	75 - 125	471		8.20		500	92		P
Copper	ug/L	75 - 125	4880		2.00	U	5000	98		P
Iron	ug/L	75 - 125	27300		6980		25000	81		P
Lead	ug/L	75 - 125	2440		1.00	U	2500	98		P
Magnesium	ug/L	75 - 125	55000		9620		50000	91		P
Manganese	ug/L	75 - 125	5630		651		5000	100		P
Nickel	ug/L	75 - 125	496		11.4		500	97		P
Potassium	ug/L	75 - 125	30300		8840		25000	86		P
Selenium	ug/L	75 - 125	493		5.00	U	500	99		P
Silver	ug/L	75 - 125	85.4		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	58100		7570		50000	101		P
Thallium	ug/L	75 - 125	495		0.23	J	500	99		P
Vanadium	ug/L	75 - 125	472		0.27	J	500	94		P
Zinc	ug/L	75 - 125	5070		4.13	J	5000	101		P

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2250
contract: JACO05 **lab code:** CHEM **case no.:** Q2250 **sas no.:** Q2250
matrix: Water **sample id:** Q2234-08 **client id:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Spiked ID:** Q2234-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	ug/L	75 - 125	7600		17.9	J	10000	76		P
Antimony	ug/L	75 - 125	507		0.28	J	500	101		P
Arsenic	ug/L	75 - 125	0.88	J	0.88	J	500	0	N	P
Barium	ug/L	75 - 125	2750		462		2500	91		P
Beryllium	ug/L	75 - 125	495		1.00	U	500	99		P
Cadmium	ug/L	75 - 125	491		1.00	U	500	98		P
Calcium	ug/L	75 - 125	80200		34100		50000	92		P
Chromium	ug/L	75 - 125	446		2.00	U	500	89		P
Cobalt	ug/L	75 - 125	465		8.20		500	91		P
Copper	ug/L	75 - 125	4800		2.00	U	5000	96		P
Iron	ug/L	75 - 125	26900		6980		25000	80		P
Lead	ug/L	75 - 125	2420		1.00	U	2500	97		P
Magnesium	ug/L	75 - 125	54500		9620		50000	90		P
Manganese	ug/L	75 - 125	5480		651		5000	97		P
Nickel	ug/L	75 - 125	490		11.4		500	96		P
Potassium	ug/L	75 - 125	29700		8840		25000	83		P
Selenium	ug/L	75 - 125	496		5.00	U	500	99		P
Silver	ug/L	75 - 125	85.7		1.00	U	500	17	N	P
Sodium	ug/L	75 - 125	57200		7570		50000	99		P
Thallium	ug/L	75 - 125	493		0.23	J	500	99		P
Vanadium	ug/L	75 - 125	464		0.27	J	500	93		P
Zinc	ug/L	75 - 125	4940		4.13	J	5000	99		P

metals
- 5a -
MATRIX SPIKE SUMMARY

client: JACOBS Engineering Group, Inc. **level:** low **sdg no.:** Q2250
contract: JACO05 **lab code:** CHEM **case no.:** Q2250 **sas no.:** Q2250
matrix: Water **sample id:** Q2237-02 **client id:** TW-WTS-10MS
Percent Solids for Sample: NA **Spiked ID:** Q2237-02MS **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	5.01		0.20	U	4.0	125	N	CV

metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: JACOBS Engineering Group, Inc.	level: low	sdg no.: Q2250
contract: JACO05	lab code: CHEM	case no.: Q2250 sas no.: Q2250
matrix: Water	sample id: Q2237-02	client id: TW-WTS-10MSD
Percent Solids for Sample: NA	Spiked ID: Q2237-02MSD	Percent Solids for Spike Sample: NA

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	5.01		0.20	U	4.0	125	N	CV

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Level:** LOW **Client ID:** MW-17B-55-060425A
Sample ID: Q2234-01 **Spiked ID:** Q2234-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	0.86	J	0.94	J	500	0	N	P
Silver	ug/L	75 - 125	82.0		1.00	U	500	16	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc.	SDG No.: Q2250	
Contract: JACO05	Lab Code: CHEM	Case No.: Q2250 SAS No.: Q2250
Matrix: Water	Level: LOW	Client ID: MW-17B-55-060425A
Sample ID: Q2234-08	Spiked ID: Q2234-08A	

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Arsenic	ug/L	75 - 125	0.91	J	0.88	J	500	0	N	P
Silver	ug/L	75 - 125	84.7		1.00	U	500	17	N	P

Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Level:** LOW **Client ID:** TW-WTS-10A
Sample ID: Q2237-02 **Spiked ID:** Q2237-02A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	ug/L	75 - 125	4.09		0.20	U	4.00	102		CV

A
B
C
D
E
F
G
H
I
J

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-01 **Client ID:** MW-17B-55-060425DUP
Percent Solids for Sample: NA **Duplicate ID** Q2234-01DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	68.7		61.6		11		P
Antimony	ug/L	20	0.39	J	0.35	J	11		P
Arsenic	ug/L	20	0.94	J	0.69	J	31	*	P
Barium	ug/L	20	461		455		1		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	32000		31900		0		P
Chromium	ug/L	20	0.21	J	0.23	J	9		P
Cobalt	ug/L	20	8.11		8.00		1		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	6790		6740		1		P
Lead	ug/L	20	1.00	U	1.00	U			P
Magnesium	ug/L	20	9240		8980		3		P
Manganese	ug/L	20	621		618		0		P
Nickel	ug/L	20	12.1		11.9		2		P
Potassium	ug/L	20	9030		8990		0		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	8060		7880		2		P
Thallium	ug/L	20	0.22	J	0.23	J	4		P
Vanadium	ug/L	20	0.73	J	0.68	J	7		P
Zinc	ug/L	20	5.06		5.17		2		P

Metals

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DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-02 **Client ID:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Duplicate ID** Q2234-03 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	7550		7550		0		P
Antimony	ug/L	20	492		492		0		P
Arsenic	ug/L	20	0.97	J	0.92	J	5		P
Barium	ug/L	20	2620		2650		1		P
Beryllium	ug/L	20	494		488		1		P
Cadmium	ug/L	20	478		480		0		P
Calcium	ug/L	20	77700		76600		1		P
Chromium	ug/L	20	442		434		2		P
Cobalt	ug/L	20	471		455		3		P
Copper	ug/L	20	4710		4750		1		P
Iron	ug/L	20	26600		26600		0		P
Lead	ug/L	20	2410		2390		1		P
Magnesium	ug/L	20	53400		53300		0		P
Manganese	ug/L	20	5390		5450		1		P
Nickel	ug/L	20	481		482		0		P
Potassium	ug/L	20	29800		29800		0		P
Selenium	ug/L	20	483		484		0		P
Silver	ug/L	20	82.8		82.4		0		P
Sodium	ug/L	20	56400		57000		1		P
Thallium	ug/L	20	477		487		2		P
Vanadium	ug/L	20	458		453		1		P
Zinc	ug/L	20	4910		4920		0		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-08 **Client ID:** MW-17B-55-060425DUP
Percent Solids for Sample: NA **Duplicate ID** Q2234-08DUP **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	17.9	J	17.4	J	3		P
Antimony	ug/L	20	0.28	J	0.29	J	4		P
Arsenic	ug/L	20	0.88	J	0.88	J	0		P
Barium	ug/L	20	462		471		2		P
Beryllium	ug/L	20	1.00	U	1.00	U			P
Cadmium	ug/L	20	1.00	U	1.00	U			P
Calcium	ug/L	20	34100		35000		3		P
Chromium	ug/L	20	2.00	U	2.00	U			P
Cobalt	ug/L	20	8.20		8.24		0		P
Copper	ug/L	20	2.00	U	2.00	U			P
Iron	ug/L	20	6980		7010		0		P
Lead	ug/L	20	1.00	U	1.00	U			P
Magnesium	ug/L	20	9620		9680		1		P
Manganese	ug/L	20	651		653		0		P
Nickel	ug/L	20	11.4		11.8		3		P
Potassium	ug/L	20	8840		8810		0		P
Selenium	ug/L	20	5.00	U	5.00	U			P
Silver	ug/L	20	1.00	U	1.00	U			P
Sodium	ug/L	20	7570		7800		3		P
Thallium	ug/L	20	0.23	J	0.22	J	4		P
Vanadium	ug/L	20	0.27	J	0.26	J	4		P
Zinc	ug/L	20	4.13	J	4.18	J	1		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **Level:** LOW **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250
Matrix: Water **Sample ID:** Q2234-09 **Client ID:** MW-17B-55-060425MSD
Percent Solids for Sample: NA **Duplicate ID** Q2234-10 **Percent Solids for Spike Sample:** NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	ug/L	20	7720		7600		2		P
Antimony	ug/L	20	509		507		0		P
Arsenic	ug/L	20	0.90	J	0.88	J	2		P
Barium	ug/L	20	2730		2750		1		P
Beryllium	ug/L	20	498		495		1		P
Cadmium	ug/L	20	496		491		1		P
Calcium	ug/L	20	79400		80200		1		P
Chromium	ug/L	20	454		446		2		P
Cobalt	ug/L	20	471		465		1		P
Copper	ug/L	20	4880		4800		2		P
Iron	ug/L	20	27300		26900		1		P
Lead	ug/L	20	2440		2420		1		P
Magnesium	ug/L	20	55000		54500		1		P
Manganese	ug/L	20	5630		5480		3		P
Nickel	ug/L	20	496		490		1		P
Potassium	ug/L	20	30300		29700		2		P
Selenium	ug/L	20	493		496		1		P
Silver	ug/L	20	85.4		85.7		0		P
Sodium	ug/L	20	58100		57200		2		P
Thallium	ug/L	20	495		493		0		P
Vanadium	ug/L	20	472		464		2		P
Zinc	ug/L	20	5070		4940		3		P

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2250</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2250</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2237-02</u>	Client ID:	<u>TW-WTS-10DUP</u>
Percent Solids for Sample:	NA	Duplicate ID	Q2237-02DUP	Percent Solids for Spike Sample:	NA

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	0.20	U	0.20	U			CV

Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client:	<u>JACOBS Engineering Group, Inc.</u>	Level:	<u>LOW</u>	SDG No.:	<u>Q2250</u>
Contract:	<u>JACO05</u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>Q2250</u>
Matrix:	<u>Water</u>	Sample ID:	<u>Q2237-02MS</u>	Client ID:	<u>TW-WTS-10MSD</u>
Percent Solids for Sample:	<u>NA</u>	Duplicate ID	<u>Q2237-02MSD</u>	Percent Solids for Spike Sample:	<u>NA</u>

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	ug/L	20	5.01		5.01		0		CV

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc. **SDG No.:** Q2250
Contract: JACO05 **Lab Code:** CHEM **Case No.:** Q2250 **SAS No.:** Q2250

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168360BS							
Aluminum	ug/L	10000	8600		86	80 - 120	P
Antimony	ug/L	500	513		103	80 - 120	P
Arsenic	ug/L	500	502		100	80 - 120	P
Barium	ug/L	2500	2530		101	80 - 120	P
Beryllium	ug/L	500	504		101	80 - 120	P
Cadmium	ug/L	500	509		102	80 - 120	P
Calcium	ug/L	50000	49300		99	80 - 120	P
Chromium	ug/L	500	471		94	80 - 120	P
Cobalt	ug/L	500	471		94	80 - 120	P
Copper	ug/L	5000	5030		101	80 - 120	P
Iron	ug/L	25000	23800		95	80 - 120	P
Lead	ug/L	2500	2540		102	80 - 120	P
Magnesium	ug/L	50000	47800		96	80 - 120	P
Manganese	ug/L	5000	5050		101	80 - 120	P
Nickel	ug/L	500	501		100	80 - 120	P
Potassium	ug/L	25000	25000		100	80 - 120	P
Selenium	ug/L	500	496		99	80 - 120	P
Silver	ug/L	500	493		99	80 - 120	P
Sodium	ug/L	50000	51800		104	80 - 120	P
Thallium	ug/L	500	502		100	80 - 120	P
Vanadium	ug/L	500	469		94	80 - 120	P
Zinc	ug/L	5000	5090		102	80 - 120	P

Metals

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Case No.: Q2250

SAS No.: Q2250

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB168379BS Mercury	ug/L	4.0	4.27		107	80 - 120	CV

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
S0	S0	1800	100		100		100		100		100	
S2	S2	1807	100		104		100		100		101	
S3	S3	1814	104		105		103		104		103	
S4	S4	1818	103		105		103		102		103	
S5	S5	1821	103		103		101		99		102	
S6	S6	1824	102		101		103		101		107	
S7	S7	1827	100		101		103		99		107	
S8	S8	1830	101		105		103		96		104	
ICV01	ICV01	1848	97		103		103		103		104	
LLICV01	LLICV01	1900	96		105		104		103		102	
ICB01	ICB01	1907	96		103		104		102		103	
ICSA01	ICSA01	1910	97		104		103		101		107	
ICSAB01	ICSAB01	1913	96		103		105		101		110	
CCV01	CCV01	1929	93		102		103		98		104	
CCB01	CCB01	1935	97		104		105		103		105	
CRI	CRI	1939	97		103		104		103		105	
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	103		109		108		102		110	
CCB02	CCB02	1958	99		104		106		104		106	
PB168360BL	PB168360BL	2002	99		104		106		105		108	
PB168360BS	PB168360BS	2005	100		107		108		104		110	
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-0	2012	104		118		119		118		121	
Q2234-01L	MW-17B-55-0	2016	96		109		110		109		112	
Q2234-02	MW-17B-55-0	2019	104		120		120		114		122	
Q2234-03	MW-17B-55-0	2022	104		117		119		117		121	
Q2234-01A	MW-17B-55-0	2025	103		118		120		115		122	
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	95		107		110		102		113	
CCB03	CCB03	2041	95		103		106		105		108	
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										
Q2234-08DUP	MW-17B-55-0	2051	105		119		121		117		122	
Q2234-08L	MW-17B-55-0	2054	93		108		110		108		112	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 6Li	Q	Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q
Q2234-09	MW-17B-55-0	2057	105		121		121		117		122	
Q2234-10	MW-17B-55-0	2100	104		117		120		114		121	
Q2234-08A	MW-17B-55-0	2103	104		117		122		117		124	
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	93		108		112		104		115	
CCB04	CCB04	2123	93		107		109		108		110	
Q2250-05	EB02-060525	2127	103		120		122		123		126	
Q2250-07	EB02-060525	2130	101		118		121		119		124	
CCV05	CCV05	2134	93		109		108		102		111	
CCB05	CCB05	2145	91		106		109		107		110	

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
S0	S0	1800	100		100		100		100		100	
S2	S2	1807	101		100		100		99		101	
S3	S3	1814	103		102		102		105		104	
S4	S4	1818	100		100		100		103		101	
S5	S5	1821	100		100		99		103		104	
S6	S6	1824	102		100		99		104		103	
S7	S7	1827	102		103		100		106		107	
S8	S8	1830	103		102		95		105		105	
ICV01	ICV01	1848	102		103		103		105		105	
LLICV01	LLICV01	1900	101		103		103		105		104	
ICB01	ICB01	1907	101		102		103		104		105	
ICSA01	ICSA01	1910	101		102		100		105		106	
ICSAB01	ICSAB01	1913	101		102		100		106		106	
CCV01	CCV01	1929	104		104		98		106		106	
CCB01	CCB01	1935	101		103		103		104		105	
CRI	CRI	1939	100		103		103		104		104	
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	106		107		100		107		109	
CCB02	CCB02	1958	103		104		104		105		105	
PB168360BL	PB168360BL	2002	102		104		104		105		106	
PB168360BS	PB168360BS	2005	105		105		103		109		109	
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-0	2012	114		116		115		117		118	
Q2234-01L	MW-17B-55-0	2016	105		108		107		108		109	
Q2234-02	MW-17B-55-0	2019	114		114		112		117		117	
Q2234-03	MW-17B-55-0	2022	113		115		112		117		116	
Q2234-01A	MW-17B-55-0	2025	114		115		113		118		118	
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	105		106		100		108		109	
CCB03	CCB03	2041	102		104		103		105		106	
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										
Q2234-08DUP	MW-17B-55-0	2051	114		117		115		119		120	
Q2234-08L	MW-17B-55-0	2054	105		109		108		110		110	

Internal Standard %RI Limit: 70 - 130

FORM 8A

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 45Sc	Q	Element 89Y	Q	Element 103Rh	Q	Element 159Tb	Q	Element 165Ho	Q
Q2234-09	MW-17B-55-0	2057	113		116		113		119		119	
Q2234-10	MW-17B-55-0	2100	115		115		113		118		118	
Q2234-08A	MW-17B-55-0	2103	115		116		113		119		118	
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	106		109		103		109		111	
CCB04	CCB04	2123	105		106		107		110		110	
Q2250-05	EB02-060525	2127	115		119		118		118		121	
Q2250-07	EB02-060525	2130	113		118		116		117		120	
CCV05	CCV05	2134	106		109		102		109		111	
CCB05	CCB05	2145	104		107		106		109		108	

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
S0	S0	1800	100		100							
S2	S2	1807	99		101							
S3	S3	1814	103		105							
S4	S4	1818	102		105							
S5	S5	1821	105		105							
S6	S6	1824	105		106							
S7	S7	1827	106		105							
S8	S8	1830	105		98							
ICV01	ICV01	1848	103		104							
LLICV01	LLICV01	1900	105		104							
ICB01	ICB01	1907	101		103							
ICSA01	ICSA01	1910	105		103							
ICSAB01	ICSAB01	1913	108		106							
CCV01	CCV01	1929	104		99							
CCB01	CCB01	1935	105		104							
CRI	CRI	1939	105		104							
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	111		104							
CCB02	CCB02	1958	106		104							
PB168360BL	PB168360BL	2002	109		107							
PB168360BS	PB168360BS	2005	109		107							
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-06	2012	119		117							
Q2234-01L	MW-17B-55-06	2016	110		110							
Q2234-02	MW-17B-55-06	2019	122		117							
Q2234-03	MW-17B-55-06	2022	123		117							
Q2234-01A	MW-17B-55-06	2025	120		118							
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	112		105							
CCB03	CCB03	2041	108		107							
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Non-Collision Cell									
			Element 165Ho	Q	Element 209Bi	Q	Element	Q	Element	Q	Element	Q
Q2234-08DUP	MW-17B-55-06	2051	123		121							
Q2234-08L	MW-17B-55-06	2054	111		110							
Q2234-09	MW-17B-55-06	2057	124		120							
Q2234-10	MW-17B-55-06	2100	122		119							
Q2234-08A	MW-17B-55-06	2103	123		120							
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	114		106							
CCB04	CCB04	2123	110		109							
Q2250-05	EB02-060525	2127	125		124							
Q2250-07	EB02-060525	2130	122		121							
CCV05	CCV05	2134	113		104							
CCB05	CCB05	2145	110		107							

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
S0	S0	1800	100									
S2	S2	1807	100									
S3	S3	1814	103									
S4	S4	1818	103									
S5	S5	1821	103									
S6	S6	1824	102									
S7	S7	1827	103									
S8	S8	1830	95									
ICV01	ICV01	1848	104									
LLICV01	LLICV01	1900	103									
ICB01	ICB01	1907	103									
ICSA01	ICSA01	1910	102									
ICSAB01	ICSAB01	1913	103									
CCV01	CCV01	1929	98									
CCB01	CCB01	1935	103									
CRI	CRI	1939	103									
ZZZZZZ	ZZZZZZ	1942										
ZZZZZZ	ZZZZZZ	1948										
CCV02	CCV02	1952	101									
CCB02	CCB02	1958	104									
PB168360BL	PB168360BL	2002	105									
PB168360BS	PB168360BS	2005	104									
ZZZZZZ	ZZZZZZ	2009										
Q2234-01DUP	MW-17B-55-06	2012	115									
Q2234-01L	MW-17B-55-06	2016	108									
Q2234-02	MW-17B-55-06	2019	113									
Q2234-03	MW-17B-55-06	2022	114									
Q2234-01A	MW-17B-55-06	2025	114									
ZZZZZZ	ZZZZZZ	2028										
ZZZZZZ	ZZZZZZ	2031										
CCV03	CCV03	2035	100									
CCB03	CCB03	2041	105									
ZZZZZZ	ZZZZZZ	2044										
ZZZZZZ	ZZZZZZ	2047										

Internal Standard %RI Limit: 70 -130

FORM 8B

ICP-MS INTERNAL STANDARD RELATIVE INTENSITY SUMMARY

Lab Name: JACOBS Engineering Group, Inc.

Contract: JAC005

Lab Code: CHEM Case no.: Q2250

Sas No.: Q2250 SDG No.: Q2250

Instrument ID: P7

Start Date : 06/11/2025

Run Number: LB136121

End Date : 06/11/2025

Lab SampleID	Client SampleID	Time	Internal Standard %RI For: Collision Cell									
			Element 209Bi	Q	Element	Q	Element	Q	Element	Q	Element	Q
Q2234-08DUP	MW-17B-55-06	2051	117									
Q2234-08L	MW-17B-55-06	2054	109									
Q2234-09	MW-17B-55-06	2057	115									
Q2234-10	MW-17B-55-06	2100	115									
Q2234-08A	MW-17B-55-06	2103	114									
ZZZZZZ	ZZZZZZ	2106										
ZZZZZZ	ZZZZZZ	2110										
ZZZZZZ	ZZZZZZ	2113										
CCV04	CCV04	2116	103									
CCB04	CCB04	2123	107									
Q2250-05	EB02-060525	2127	118									
Q2250-07	EB02-060525	2130	116									
CCV05	CCV05	2134	101									
CCB05	CCB05	2145	107									

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55-060425L

Lab Name: Chemtech Consulting Group

Contract: JAC005

Lab Code: CHEM **Lb No.:** lb136121 **Lab Sample ID :** Q2234-01L **SDG No.:** Q2250

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Differ-ence	Q	M
		C		C			
Aluminum	68.7		59.1	J	14		P
Antimony	0.39	J	10.0	U	100.0		P
Arsenic	0.94	J	0.80	J	15		P
Barium	461		447		3		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	32000		29700		7		P
Chromium	0.21	J	10.0	U	100.0		P
Cobalt	8.11		7.95		2		P
Copper	2.00	U	10.0	U			P
Iron	6790		6620		3		P
Lead	1.00	U	5.00	U			P
Magnesium	9240		8020		13		P
Manganese	621		614		1		P
Nickel	12.1		11.5		5		P
Potassium	9030		8340		8		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	8060		7030		13		P
Thallium	0.22	J	5.00	U	100.0		P
Vanadium	0.73	J	0.60	J	18		P
Zinc	5.06		25.0	U	100.0		P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

MW-17B-55-060425L

Lab Name: Chemtech Consulting Group

Contract: JACO05

Lab Code: CHEM **Lb No.:** lb136121 **Lab Sample ID :** Q2234-08L **SDG No.:** Q2250

Matrix (soil/water): Water **Level (low/med):** LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)		Serial Dilution Result (S)		% Difference	Q	M
		C		C			
Aluminum	17.9	J	22.6	J	26		P
Antimony	0.28	J	10.0	U	100.0		P
Arsenic	0.88	J	0.85	J	3		P
Barium	462		457		1		P
Beryllium	1.00	U	5.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	34100		34200		1		P
Chromium	2.00	U	10.0	U			P
Cobalt	8.20		8.10		1		P
Copper	2.00	U	10.0	U			P
Iron	6980		6960		0		P
Lead	1.00	U	5.00	U			P
Magnesium	9620		8770		9		P
Manganese	651		649		0		P
Nickel	11.4		11.7		3		P
Potassium	8840		8170		8		P
Selenium	5.00	U	25.0	U			P
Silver	1.00	U	5.00	U			P
Sodium	7570		6800		10		P
Thallium	0.23	J	0.30	J	30		P
Vanadium	0.27	J	25.0	U	100.0		P
Zinc	4.13	J	25.0	U	100.0		P

Metals
-9 -
ICP SERIAL DILUTIONS

SAMPLE NO.

TW-WTS-10L

Lab Name: Chemtech Consulting Group

Contract: JACO05

Lab Code: CHEM

Lb No.: lb136079

Lab Sample ID : Q2237-02L

SDG No.: Q2250

Matrix (soil/water): Water

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Mercury	0.20 U	1.00 U			CV

metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM **Case no.:** Q2250 **Sas no.:** Q2250

Sdg no.: Q2250

Instrument id number: **Method:**

Run number: LB136079

Start date: 06/10/2025 **End date:** 06/10/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1008	HG
S0.2	S0.2	1	1010	HG
S2.5	S2.5	1	1013	HG
S5	S5	1	1015	HG
S7.5	S7.5	1	1020	HG
S10	S10	1	1030	HG
ICV31	ICV31	1	1039	HG
ICB31	ICB31	1	1041	HG
CCV17	CCV17	1	1043	HG
CCB17	CCB17	1	1048	HG
CRA	CRA	1	1056	HG
CCV18	CCV18	1	1132	HG
CCB18	CCB18	1	1137	HG
CCV19	CCV19	1	1212	HG
CCB19	CCB19	1	1214	HG
CCV20	CCV20	1	1257	HG
CCB20	CCB20	1	1259	HG
PB168379BL	PB168379BL	1	1313	HG
PB168379BS	PB168379BS	1	1318	HG
Q2237-02DUP	TW-WTS-10DUP	1	1323	HG
Q2237-02MS	TW-WTS-10MS	1	1325	HG
CCV21	CCV21	1	1330	HG
CCB21	CCB21	1	1332	HG
Q2237-02MSD	TW-WTS-10MSD	1	1335	HG
Q2250-05	EB02-060525	1	1337	HG
Q2237-02L	TW-WTS-10L	5	1400	HG
Q2237-02A	TW-WTS-10A	1	1405	HG
CCV22	CCV22	1	1428	HG
CCB22	CCB22	1	1430	HG

metals
- 14 -
ANALYSIS RUN LOG

Client: JACOBS Engineering Group, Inc.

Contract: JACO05

Lab code: CHEM

Case no.: Q2250

Sas no.: Q2250

Sdg no.: Q2250

Instrument id number:

Method:

Run number: LB136121

Start date: 06/11/2025

End date: 06/11/2025

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1800	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1807	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1814	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1818	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1821	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S6	S6	1	1824	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S7	S7	1	1827	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
S8	S8	1	1830	Fe,Al,Ca,K,Mg,Na
ICV01	ICV01	1	1848	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1900	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1907	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1910	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1913	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1929	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1935	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CRI	CRI	1	1939	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1952	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1958	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168360BL	PB168360BL	1	2002	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
PB168360BS	PB168360BS	1	2005	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01DUP	MW-17B-55-060425DUP	1	2012	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01L	MW-17B-55-060425L	5	2016	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-02	MW-17B-55-060425MS	1	2019	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-03	MW-17B-55-060425MSD	1	2022	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-01A	MW-17B-55-060425A	1	2025	Ag,As
CCV03	CCV03	1	2035	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	2041	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08DUP	MW-17B-55-060425DUP	1	2051	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08L	MW-17B-55-060425L	5	2054	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-09	MW-17B-55-060425MS	1	2057	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-10	MW-17B-55-060425MSD	1	2100	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2234-08A	MW-17B-55-060425A	1	2103	Ag,As
CCV04	CCV04	1	2116	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	2123	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2250-05	EB02-060525	1	2127	Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
Q2250-07	EB02-060525	1	2130	Fe
CCV05	CCV05	1	2134	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2145	Fe,Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn



METAL PREPARATION & INSTRUMENT DATA

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-05	EB02-060525	Water	Mercury	7470A	06/05/25	06/09/25	06/10/25	06/05/25
			Metals ICP-TAL	6020B		06/09/25	06/11/25	
Q2250-07	EB02-060525	Water	Dissolved ICP-Group2	6020B	06/05/25	06/09/25	06/11/25	06/05/25



METAL PREPARATION & ANALYICAL SUMMARY

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Method:

Case No.: Q2250

SAS No.: Q2250

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168360							
PB168360BL	PB168360BL	MB	WATER	06/09/2025	50.0	50.0	
PB168360BS	PB168360BS	LCS	WATER	06/09/2025	50.0	50.0	
Q2234-01DUP	MW-17B-55-060425DUP	DUP	WATER	06/09/2025	50.0	50.0	
Q2234-02	MW-17B-55-060425MS	MS	WATER	06/09/2025	50.0	50.0	
Q2234-03	MW-17B-55-060425MSD	MSD	WATER	06/09/2025	50.0	50.0	
Q2234-08DUP	MW-17B-55-060425DUP	DUP	WATER	06/09/2025	50.0	50.0	
Q2234-09	MW-17B-55-060425MS	MS	WATER	06/09/2025	50.0	50.0	
Q2234-10	MW-17B-55-060425MSD	MSD	WATER	06/09/2025	50.0	50.0	
Q2250-05	EB02-060525	SAM	WATER	06/09/2025	50.0	50.0	
Q2250-07	EB02-060525	SAM	WATER	06/09/2025	50.0	50.0	

Metals

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SAMPLE PREPARATION SUMMARY

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Contract: JACO05

Lab Code: CHEM

Method: _____

Case No.: Q2250

SAS No.: Q2250

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(mL)	Final Sample Volume (mL)	Percent Solids
Batch Number: PB168379							
PB168379BL	PB168379BL	MB	WATER	06/09/2025	30.0	30.0	
PB168379BS	PB168379BS	LCS	WATER	06/09/2025	30.0	30.0	
Q2237-02DUP	TW-WTS-10DUP	DUP	WATER	06/09/2025	30.0	30.0	
Q2237-02MS	TW-WTS-10MS	MS	WATER	06/09/2025	30.0	30.0	
Q2237-02MSD	TW-WTS-10MSD	MSD	WATER	06/09/2025	30.0	30.0	
Q2250-05	EB02-060525	SAM	WATER	06/09/2025	30.0	30.0	

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136079

Review By	MOHAN	Review On	6/11/2025 2:47:48 PM
Supervise By	jaswal	Supervise On	6/11/2025 2:50:29 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85916,MP85917,MP85918,MP85919,MP85920,MP85921		
ICV Standard	MP85922		
CCV Standard	MP85924		
ICSA Standard			
CRI Standard	MP85926		
LCS Standard			
Chk Standard	MP85923,MP85925,MP85927,MP85932		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	06/10/25 10:08		MOHAN	OK
2	S0.2	S0.2	CAL2	06/10/25 10:10		MOHAN	OK
3	S2.5	S2.5	CAL3	06/10/25 10:13		MOHAN	OK
4	S5	S5	CAL4	06/10/25 10:15		MOHAN	OK
5	S7.5	S7.5	CAL5	06/10/25 10:20		MOHAN	OK
6	S10	S10	CAL6	06/10/25 10:30		MOHAN	OK
7	ICV31	ICV31	ICV	06/10/25 10:39		MOHAN	OK
8	ICB31	ICB31	ICB	06/10/25 10:41		MOHAN	OK
9	CCV17	CCV17	CCV	06/10/25 10:43		MOHAN	OK
10	CCB17	CCB17	CCB	06/10/25 10:48		MOHAN	OK
11	CRA	CRA	CRDL	06/10/25 10:56		MOHAN	OK
12	HighStd	HighStd	HIGH STD	06/10/25 11:04		MOHAN	OK
13	ChkStd	ChkStd	SAM	06/10/25 11:06		MOHAN	OK
14	PB168335BL	PB168335BL	MB	06/10/25 11:11		MOHAN	OK
15	PB168335BS	PB168335BS	LCS	06/10/25 11:18		MOHAN	OK
16	Q2226-04	TP06-MHI-WC	SAM	06/10/25 11:20		MOHAN	OK
17	Q2227-04	TP07-MHH-WC	SAM	06/10/25 11:23		MOHAN	OK
18	Q2228-04	TP08-MHI-WC	SAM	06/10/25 11:25		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136079

Review By	MOHAN	Review On	6/11/2025 2:47:48 PM
Supervise By	jaswal	Supervise On	6/11/2025 2:50:29 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85916,MP85917,MP85918,MP85919,MP85920,MP85921		
ICV Standard	MP85922		
CCV Standard	MP85924		
ICSA Standard			
CRI Standard	MP85926		
LCS Standard			
Chk Standard	MP85923,MP85925,MP85927,MP85932		

19	Q2235-03	WC-A2-08-C	SAM	06/10/25 11:27		MOHAN	OK
20	Q2236-03	WC-A4-05A-C	SAM	06/10/25 11:29		MOHAN	OK
21	CCV18	CCV18	CCV	06/10/25 11:32		MOHAN	OK
22	CCB18	CCB18	CCB	06/10/25 11:37		MOHAN	OK
23	Q2236-07	WC-A2-04-C	SAM	06/10/25 11:39		MOHAN	OK
24	Q2236-11	WC-A2-05-C	SAM	06/10/25 11:41		MOHAN	OK
25	Q2236-15	WC-A2-06-C	SAM	06/10/25 11:43		MOHAN	OK
26	Q2236-19	WC-A2-07-C	SAM	06/10/25 11:46		MOHAN	OK
27	Q2240-04	TP-3	SAM	06/10/25 11:48		MOHAN	OK
28	Q2240-08	TP-2	SAM	06/10/25 11:50		MOHAN	OK
29	Q2240-12	TP-1	SAM	06/10/25 11:52		MOHAN	OK
30	Q2241-04	TP-N	SAM	06/10/25 11:55		MOHAN	OK
31	Q2241-08	TP-S	SAM	06/10/25 11:57		MOHAN	OK
32	Q2242-04	TP09-MHJ	SAM	06/10/25 11:59		MOHAN	OK
33	CCV19	CCV19	CCV	06/10/25 12:12		MOHAN	OK
34	CCB19	CCB19	CCB	06/10/25 12:14		MOHAN	OK
35	Q2242-04DUP	TP09-MHJDUP	DUP	06/10/25 12:17		MOHAN	OK
36	Q2242-04MS	TP09-MHJMS	MS	06/10/25 12:30		MOHAN	OK
37	Q2242-04MSD	TP09-MHJMSD	MSD	06/10/25 12:32		MOHAN	OK
38	PB168364BL	PB168364BL	MB	06/10/25 12:38		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136079

Review By	MOHAN	Review On	6/11/2025 2:47:48 PM
Supervise By	jaswal	Supervise On	6/11/2025 2:50:29 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85916,MP85917,MP85918,MP85919,MP85920,MP85921		
ICV Standard	MP85922		
CCV Standard	MP85924		
ICSA Standard			
CRI Standard	MP85926		
LCS Standard			
Chk Standard	MP85923,MP85925,MP85927,MP85932		

39	PB168364BS	PB168364BS	LCS	06/10/25 12:40		MOHAN	OK
40	Q2244-04	TP03-MHC	SAM	06/10/25 12:43		MOHAN	OK
41	Q2260-04	TP10-MHG-WC	SAM	06/10/25 12:45		MOHAN	OK
42	Q2262-02	ARS20-0032	SAM	06/10/25 12:47		MOHAN	OK
43	Q2262-04	ARS20-0001	SAM	06/10/25 12:49		MOHAN	OK
44	Q2265-04	TP11-MHL-WC	SAM	06/10/25 12:52		MOHAN	OK
45	CCV20	CCV20	CCV	06/10/25 12:57		MOHAN	OK
46	CCB20	CCB20	CCB	06/10/25 12:59		MOHAN	OK
47	Q2266-04	WC-3	SAM	06/10/25 13:01		MOHAN	OK
48	Q2266-08	WC-5	SAM	06/10/25 13:04		MOHAN	OK
49	Q2266-08DUP	WC-5DUP	DUP	06/10/25 13:06		MOHAN	OK
50	Q2266-08MS	WC-5MS	MS	06/10/25 13:08		MOHAN	OK
51	Q2266-08MSD	WC-5MSD	MSD	06/10/25 13:10		MOHAN	OK
52	PB168379BL	PB168379BL	MB	06/10/25 13:13		MOHAN	OK
53	PB168379BS	PB168379BS	LCS	06/10/25 13:18		MOHAN	OK
54	Q2237-02	TW-WTS-10	SAM	06/10/25 13:20		MOHAN	OK
55	Q2237-02DUP	TW-WTS-10DUP	DUP	06/10/25 13:23		MOHAN	OK
56	Q2237-02MS	TW-WTS-10MS	MS	06/10/25 13:25		MOHAN	OK
57	CCV21	CCV21	CCV	06/10/25 13:30		MOHAN	OK
58	CCB21	CCB21	CCB	06/10/25 13:32		MOHAN	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136079

Review By	MOHAN	Review On	6/11/2025 2:47:48 PM
Supervise By	jaswal	Supervise On	6/11/2025 2:50:29 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85916,MP85917,MP85918,MP85919,MP85920,MP85921		
ICV Standard	MP85922		
CCV Standard	MP85924		
ICSA Standard			
CRI Standard	MP85926		
LCS Standard			
Chk Standard	MP85923,MP85925,MP85927,MP85932		

59	Q2237-02MSD	TW-WTS-10MSD	MSD	06/10/25 13:35		MOHAN	OK
60	Q2250-05	EB02-060525	SAM	06/10/25 13:37		MOHAN	OK
61	PB168311TB	PB168311TB	MB	06/10/25 13:39		MOHAN	OK
62	PB168333TB	PB168333TB	MB	06/10/25 13:41		MOHAN	OK
63	Q2242-04L	TP09-MHJL	SD	06/10/25 13:44		MOHAN	OK
64	Q2242-04A	TP09-MHJA	PS	06/10/25 13:46		MOHAN	OK
65	Q2266-08L	WC-5L	SD	06/10/25 13:48		MOHAN	OK
66	Q2266-08A	WC-5A	PS	06/10/25 13:58		MOHAN	OK
67	Q2237-02L	TW-WTS-10L	SD	06/10/25 14:00		MOHAN	OK
68	Q2237-02A	TW-WTS-10A	PS	06/10/25 14:05		MOHAN	OK
69	CCV22	CCV22	CCV	06/10/25 14:28		MOHAN	OK
70	CCB22	CCB22	CCB	06/10/25 14:30		MOHAN	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB136121

Review By	Janvi	Review On	6/12/2025 11:36:04 AM
Supervise By	jaswal	Supervise On	6/12/2025 5:42:09 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85829,MP85838,MP85837,MP85835,MP85834,MP85833,MP85832,MP85831,MP85830		
ICV Standard	MP85839		
CCV Standard	MP85840		
ICSA Standard	MP85841,MP85842		
CRI Standard	MP85837		
LCS Standard			
Chk Standard	MP85844,MP85845		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	TUNE	TUNE	TUNE	06/11/25 17:38		Jaswal	OK
2	S0	S0	CAL1	06/11/25 18:00		Jaswal	OK
3	S2	S2	CAL3	06/11/25 18:07		Jaswal	OK
4	S3	S3	CAL4	06/11/25 18:14		Jaswal	OK
5	S4	S4	CAL5	06/11/25 18:18		Jaswal	OK
6	S5	S5	CAL6	06/11/25 18:21		Jaswal	OK
7	S6	S6	CAL7	06/11/25 18:24		Jaswal	OK
8	S7	S7	CAL8	06/11/25 18:27		Jaswal	OK
9	S8	S8	CAL9	06/11/25 18:30		Jaswal	OK
10	ICV01	ICV01	ICV	06/11/25 18:48		Jaswal	OK
11	LLICV01	LLICV01	LLICV	06/11/25 19:00		Jaswal	OK
12	ICB01	ICB01	ICB	06/11/25 19:07		Jaswal	OK
13	ICSA01	ICSA01	ICSA	06/11/25 19:10		Jaswal	OK
14	ICSAB01	ICSAB01	ICSAB	06/11/25 19:13		Jaswal	OK
15	CCV01	CCV01	CCV	06/11/25 19:29		Jaswal	OK
16	CCB01	CCB01	CCB	06/11/25 19:35		Jaswal	OK
17	CRI	CRI	CRDL	06/11/25 19:39		Jaswal	OK
18	Q2218-03DL	3309DL	SAM	06/11/25 19:42	K High , INT_STD 45Sc(1) Fail	Jaswal	Dilution

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB136121

Review By	Janvi	Review On	6/12/2025 11:36:04 AM
Supervise By	jaswal	Supervise On	6/12/2025 5:42:09 PM
STD. NAME	STD REF.#		
ICAL Standard	MP85829,MP85838,MP85837,MP85835,MP85834,MP85833,MP85832,MP85831,MP85830		
ICV Standard	MP85839		
CCV Standard	MP85840		
ICSA Standard	MP85841,MP85842		
CRI Standard	MP85837		
LCS Standard			
Chk Standard	MP85844,MP85845		

19	Q2218-03DL2	3309DL2	SAM	06/11/25 19:48	50X For K, 50X for INT_STD 45Sc(1)	Jaswal	Confirms
20	CCV02	CCV02	CCV	06/11/25 19:52		Jaswal	OK
21	CCB02	CCB02	CCB	06/11/25 19:58		Jaswal	OK
22	PB168360BL	PB168360BL	MB	06/11/25 20:02		Jaswal	OK
23	PB168360BS	PB168360BS	LCS	06/11/25 20:05		Jaswal	OK
24	Q2234-01	MW-17B-55-060425	SAM	06/11/25 20:09		Jaswal	OK
25	Q2234-01DUP	MW-17B-55-060425D	DUP	06/11/25 20:12		Jaswal	OK
26	Q2234-01L	MW-17B-55-060425L	SD	06/11/25 20:16		Jaswal	OK
27	Q2234-02	MW-17B-55-060425M	MS	06/11/25 20:19		Jaswal	OK
28	Q2234-03	MW-17B-55-060425M	MSD	06/11/25 20:22		Jaswal	OK
29	Q2234-01A	MW-17B-55-060425A	PS	06/11/25 20:25		Jaswal	OK
30	Q2234-05	MW-18B-56-060425	SAM	06/11/25 20:28		Jaswal	OK
31	Q2234-06	MW-18B-56-060425-F	SAM	06/11/25 20:31		Jaswal	OK
32	CCV03	CCV03	CCV	06/11/25 20:35		Jaswal	OK
33	CCB03	CCB03	CCB	06/11/25 20:41		Jaswal	OK
34	Q2234-07	MW-19B-72-060425	SAM	06/11/25 20:44		Jaswal	OK
35	Q2234-08	MW-17B-55-060425	SAM	06/11/25 20:47		Jaswal	OK
36	Q2234-08DUP	MW-17B-55-060425D	DUP	06/11/25 20:51		Jaswal	OK
37	Q2234-08L	MW-17B-55-060425L	SD	06/11/25 20:54		Jaswal	OK

Instrument ID: P7

Daily Analysis Runlog For Sequence/QC Batch ID # LB136121

Review By	Janvi	Review On	6/12/2025 11:36:04 AM
Supervise By	jaswal	Supervise On	6/12/2025 5:42:09 PM

STD. NAME	STD REF.#
ICAL Standard	MP85829,MP85838,MP85837,MP85835,MP85834,MP85833,MP85832,MP85831,MP85830
ICV Standard	MP85839
CCV Standard	MP85840
ICSA Standard	MP85841,MP85842
CRI Standard	MP85837
LCS Standard	
Chk Standard	MP85844,MP85845

38	Q2234-09	MW-17B-55-060425M	MS	06/11/25 20:57		Jaswal	OK
39	Q2234-10	MW-17B-55-060425M	MSD	06/11/25 21:00		Jaswal	OK
40	Q2234-08A	MW-17B-55-060425A	PS	06/11/25 21:03		Jaswal	OK
41	Q2234-11	MW-18B-56-060425	SAM	06/11/25 21:06		Jaswal	OK
42	Q2234-12	MW-18B-56-060425-F	SAM	06/11/25 21:10		Jaswal	OK
43	Q2234-13	MW-19B-72-060425	SAM	06/11/25 21:13		Jaswal	OK
44	CCV04	CCV04	CCV	06/11/25 21:16		Jaswal	OK
45	CCB04	CCB04	CCB	06/11/25 21:23		Jaswal	OK
46	Q2250-05	EB02-060525	SAM	06/11/25 21:27		Jaswal	OK
47	Q2250-07	EB02-060525	SAM	06/11/25 21:30		Jaswal	OK
48	CCV05	CCV05	CCV	06/11/25 21:34		Jaswal	OK
49	CCB05	CCB05	CCB	06/11/25 21:45		Jaswal	OK

SOP ID : M3010A-Digestion-17

SDG No : N/A

Matrix : WATER

Pipette ID : ICP A

Balance ID : N/A

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID : 1. HOT BLOCK #1 2. N/A

Start Digest Date: 06/09/2025 Time : 12:20 Temp : 96 °C

End Digest Date: 06/09/2025 Time : 14:14 Temp : 96 °C

Digestion tube ID: M5595

Block thermometer ID: MET-DIG. #1

Dig Technician Signature: S/29

Supervisor Signature: JEP

Temp : 1. 96°C 2. N/A

Standard Name	MLS USED	STD REF. # FROM LOG
Spike Sol 1	0.50	MP85846
Spike Sol 2	1.00	MP85847
Spike Sol 3	1.00	MP85848
Spike Sol 4	1.00	MP85849
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Conc. HNO3	3.00	M6158
1:1 HCL	5.00	MP85156
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:

HOT BLOCK#1 CELL#50 96 C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/09/25 15:15	S/29. met. dig	JEP Met Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	pH	Initial Vol (ml)	Final Vol (ml)	Color Before	Color After	Clarity Before	Clarity After	Comment	Prep Pos
PB168360BL	PBW360	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	16
PB168360BS	LCS360	<2	50	50	Colorless	Colorless	Clear	Clear	MP85846,MP85847,MP85848,N	17
Q2218-03	3309	<2	50	50	Pink	ligh Brown	Clear	Clear	N/A	18
Q2234-01DUP	MW-17B-55-060425DUP	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	20
Q2234-01	MW-17B-55-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	19
Q2234-02	Q2234-01MS	<2	50	50	Colorless	Colorless	Clear	Clear	MP85846,MP85847,MP85848,N	21
Q2234-03	Q2234-01MSD	<2	50	50	Colorless	Colorless	Clear	Clear	MP85846,MP85847,MP85848,N	22
Q2234-05	MW-18B-56-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	23
Q2234-06	MW-18B-56-060425-FD	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	24
Q2234-07	MW-19B-72-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	25
Q2234-08	MW-17B-55-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	26
Q2234-09	Q2234-08MS	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	27
Q2234-10	Q2234-08MSD	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	28
Q2234-11	MW-18B-56-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	29
Q2234-12	MW-18B-56-060425-FD	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	30
Q2234-13	MW-19B-72-060425	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	31
Q2250-05	EB02-060525	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	32
Q2250-07	EB02-060525	<2	50	50	Colorless	Colorless	Clear	Clear	N/A	33

SOP ID : M7470A-Mercury-20

SDG No : N/A

Matrix : WATER

Pipette ID: HG A

Balance ID : N/A

Filter paper ID : NA

pH Strip ID : M6069

Hood ID : #1

Block ID: 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 06/09/2025 Time : 15:15 Temp : 94 °C

End Digest Date: 06/09/2025 Time : 17:15 Temp : 95 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature:

Supervisor Signature:

Temp : 1. 94°C 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	30mL	MP85922
CCV	30mL	MP85924
CRA	30mL	MP85926
Blank Spike	0.48mL	MP85915
Matrix Spike	0.48mL	MP85915

Chemical Used	ML/SAMPLE USED	Lot Number
HNO3/H2SO4(1:2)	2.25mL	MP85892
KMnO4 (5%)	4.5mL	MP85893
K2S2O8 (5%)	2.4mL	MP85894
Hydroxylamine HCL (12%)	1.8mL	MP85895
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

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	30mL	MP85916
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	30mL	MP85917
2.5 ppb	S2.5	30mL	MP85918
5.0 ppb	S5.0	30mL	MP85919
7.5 ppb	S7.5	30mL	MP85920
10.0 ppb	S10.0	30mL	MP85921
ICV	ICV	30mL	MP85922
ICB	ICB	30mL	MP85923
CCV	CCV	30mL	MP85924
CCB	CCB	30mL	MP85925
CRI	CRI	30mL	MP85909
CHK STD	CHK STD	30mL	MP85927

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/9/25 @ 17:40	MB - Dig. Lab	MB - metal Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Comment	Prep Pos
PB168379BL	PBW379	30	30	<2	N/A	3-35
PB168379BS	LCS379	30	30	<2	MP85915	36
Q2237-02DUP	TW-WTS-10DUP	30	30	<2	N/A	38
Q2237-02MS	TW-WTS-10MS	30	30	<2	MP85915	39
Q2237-02MSD	TW-WTS-10MSD	30	30	<2	MP85915	40
Q2237-02	TW-WTS-10	30	30	<2	N/A	37
Q2250-05	EB02-060525	30	30	<2	N/A	41



SAMPLE DATA

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25 09:30
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	EB02-060525	SDG No.:	Q2250
Lab Sample ID:	Q2250-05	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Alkalinity	1.00	U	1	1.00	2.00	mg/L		06/10/25 12:55	SM 2320 B-11
Chloride	0.19	U	1	0.19	0.60	mg/L		06/06/25 11:55	9056A
Nitrate	0.095	U	1	0.095	0.50	mg/L		06/06/25 11:55	9056A
Sulfate	0.48	J	1	0.46	3.00	mg/L		06/06/25 11:55	9056A
TDS	76.0		1	1.00	10.0	mg/L		06/06/25 12:30	SM 2540 C-15

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Project: Former Schlumberger STC PTC Site D3868221

RunNo.: LB136018

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Bromide	mg/L	10.2	10	102	90-110	05/22/2025
Chloride	mg/L	3.1	3	103	90-110	05/22/2025
Fluoride	mg/L	2.1	2	105	90-110	05/22/2025
Nitrite	mg/L	3.1	3	103	90-110	05/22/2025
Nitrate	mg/L	2.6	2.5	104	90-110	05/22/2025
Sulfate	mg/L	15.1	15	101	90-110	05/22/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	05/22/2025
Sample ID: CCV1						
Bromide	mg/L	10.2	10	102	90-110	06/05/2025
Chloride	mg/L	3.1	3	103	90-110	06/05/2025
Fluoride	mg/L	2	2	100	90-110	06/05/2025
Nitrite	mg/L	3.1	3	103	90-110	06/05/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/05/2025
Sulfate	mg/L	15.1	15	101	90-110	06/05/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/05/2025
Sample ID: CCV2						
Bromide	mg/L	10.3	10	103	90-110	06/05/2025
Chloride	mg/L	3.1	3	103	90-110	06/05/2025
Fluoride	mg/L	2.1	2	105	90-110	06/05/2025
Nitrite	mg/L	3.1	3	103	90-110	06/05/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/05/2025
Sulfate	mg/L	15.2	15	101	90-110	06/05/2025
Orthophosphate as P	mg/L	5.3	5	106	90-110	06/05/2025
Sample ID: CCV3						
Bromide	mg/L	10.3	10	103	90-110	06/06/2025
Chloride	mg/L	3.1	3	103	90-110	06/06/2025
Fluoride	mg/L	2	2	100	90-110	06/06/2025
Nitrite	mg/L	3.1	3	103	90-110	06/06/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/06/2025
Sulfate	mg/L	15.2	15	101	90-110	06/06/2025
Orthophosphate as P	mg/L	5.2	5	104	90-110	06/06/2025
Sample ID: CCV4						
Bromide	mg/L	10.3	10	103	90-110	06/06/2025
Chloride	mg/L	3.1	3	103	90-110	06/06/2025
Fluoride	mg/L	2.1	2	105	90-110	06/06/2025
Nitrite	mg/L	3.1	3	103	90-110	06/06/2025
Nitrate	mg/L	2.6	2.5	104	90-110	06/06/2025
Sulfate	mg/L	15.3	15	102	90-110	06/06/2025

Initial and Continuing Calibration Verification

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Project: Former Schlumberger STC PTC Site D3868221

RunNo.: LB136018

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Orthophosphate as P	mg/L	5.4	5	108	90-110	06/06/2025

Initial and Continuing Calibration Blank Summary

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Project: Former Schlumberger STC PTC Site D3868221

RunNo.: LB136018

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	05/22/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	05/22/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	05/22/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	05/22/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	05/22/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	05/22/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	05/22/2025
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/05/2025
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/05/2025
Sample ID: CCB3							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/06/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/06/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/06/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/06/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/06/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/06/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/06/2025
Sample ID: CCB4							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/06/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/06/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/06/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/06/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/06/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/06/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/06/2025

Preparation Blank Summary

Client: JACOBS Engineering Group, Inc.

SDG No.: Q2250

Project: Former Schlumberger STC PTC Site D3868221

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB136018BLW							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/05/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/05/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/05/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/05/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/05/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/05/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/05/2025
Sample ID: LB136018BLW2							
Bromide	mg/L	< 1.0000	1.0000	U	0.37	2	06/06/2025
Chloride	mg/L	< 0.3000	0.3000	U	0.19	0.6	06/06/2025
Fluoride	mg/L	< 0.2000	0.2000	U	0.11	0.4	06/06/2025
Nitrite	mg/L	< 0.3000	0.3000	U	0.074	0.6	06/06/2025
Nitrate	mg/L	< 0.2500	0.2500	U	0.095	0.5	06/06/2025
Sulfate	mg/L	< 1.5000	1.5000	U	0.46	3	06/06/2025
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.34	1	06/06/2025
Sample ID: LB136041BL							
TDS	mg/L	< 5.0000	5.0000	U	1.0	10	06/06/2025
Sample ID: LB136111BL							
Alkalinity	mg/L	< 1.0000	1.0000	U	1	2	06/10/2025

Matrix Spike Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Sample ID:	Q2234-01
Client ID:	MW-17B-55-060425MS	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.5		0.37	U	10	1	105		06/05/2025
Chloride	mg/L	80-120	23.7	OR	21.1	OR	3	1	87		06/05/2025
Fluoride	mg/L	80-120	2.30		0.28	J	2	1	101		06/05/2025
Nitrite	mg/L	80-120	3.10		0.074	U	3	1	103		06/05/2025
Nitrate	mg/L	80-120	2.60		0.095	U	2.5	1	104		06/05/2025
Sulfate	mg/L	80-120	49.3	OR	34.4		15	1	99		06/05/2025
Orthophosphate as P	mg/L	80-120	4.30		0.34	U	5	1	86		06/05/2025

Matrix Spike Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Sample ID:	Q2234-01
Client ID:	MW-17B-55-060425MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Bromide	mg/L	80-120	10.0		0.37	U	10	1	100		06/05/2025
Chloride	mg/L	80-120	23.5	OR	21.1	OR	3	1	80		06/05/2025
Fluoride	mg/L	80-120	2.20		0.28	J	2	1	96		06/05/2025
Nitrite	mg/L	80-120	2.90		0.074	U	3	1	97		06/05/2025
Nitrate	mg/L	80-120	2.50		0.095	U	2.5	1	100		06/05/2025
Sulfate	mg/L	80-120	48.6	OR	34.4		15	1	95		06/05/2025
Orthophosphate as P	mg/L	80-120	4.00		0.34	U	5	1	80		06/05/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Sample ID:	Q2231-05
Client ID:	MW-17-20250604DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TDS	mg/L	+/-5	296		302		1	2.01		06/06/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Sample ID:	Q2234-01
Client ID:	MW-17B-55-060425MSD	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Chloride	mg/L	+/-15	23.7	OR	23.5	OR	1	1		06/05/2025
Sulfate	mg/L	+/-15	49.3	OR	48.6	OR	1	1		06/05/2025
Fluoride	mg/L	+/-15	2.30		2.20		1	4		06/05/2025
Nitrate	mg/L	+/-15	2.60		2.50		1	4		06/05/2025
Bromide	mg/L	+/-15	10.5		10.0		1	5		06/05/2025
Nitrite	mg/L	+/-15	3.10		2.90		1	7		06/05/2025
Orthophosphate as P	mg/L	+/-15	4.30		4.00		1	7		06/05/2025

Duplicate Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Sample ID:	Q2250-05
Client ID:	EB02-060525DUP	Percent Solids for Spike Sample:	0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/AD	Qual	Analysis Date
Alkalinity	mg/L	+/-20	1.00	U	1.00	U	1	0		06/10/2025

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Run No.:	LB136018

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136018BSW							
Bromide	mg/L	10	10.3		103	1	90-110	06/05/2025
Chloride	mg/L	3	3.10		103	1	90-110	06/05/2025
Fluoride	mg/L	2	2.00		100	1	90-110	06/05/2025
Nitrite	mg/L	3	3.10		103	1	90-110	06/05/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	06/05/2025
Sulfate	mg/L	15	15.3		102	1	90-110	06/05/2025
Orthophosphate as P	mg/L	5	5.30		106	1	90-110	06/05/2025

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Run No.:	LB136018

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136018BSW2							
Bromide	mg/L	10	10.3		103	1	90-110	06/06/2025
Chloride	mg/L	3	3.10		103	1	90-110	06/06/2025
Fluoride	mg/L	2	2.00		100	1	90-110	06/06/2025
Nitrite	mg/L	3	3.10		103	1	90-110	06/06/2025
Nitrate	mg/L	2.5	2.60		104	1	90-110	06/06/2025
Sulfate	mg/L	15	15.4		103	1	90-110	06/06/2025
Orthophosphate as P	mg/L	5	5.40		108	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Run No.:	LB136041

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136041BS							
TDS	mg/L	100	95.0		95	1	90-110	06/06/2025

Laboratory Control Sample Summary

Client:	JACOBS Engineering Group, Inc.	SDG No.:	Q2250
Project:	Former Schlumberger STC PTC Site D3868221	Run No.:	LB136111

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	LB136111BS							
Alkalinity	mg/L	50	46.2		92	1	80-120	06/10/2025

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136018

Review By	rubina	Review On	6/10/2025 10:15:09 AM
Supervise By	Iwona	Supervise On	6/10/2025 11:29:48 AM
SubDirectory	LB136018	Test	Anions
STD. NAME	STD REF.#		
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192		
ICV Standard	WP113193		
CCV Standard	WP113391,WP113409		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	WP113392,WP113410		
Chk Standard	WP113194,WP113195		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	STD1	STD1	CAL1	05/22/25 11:09	All standards, samples, and	NF/IZ	OK
2	STD2	STD2	CAL2	05/22/25 11:30	QC are filtered through	NF/IZ	OK
3	STD3	STD3	CAL3	05/22/25 11:52	0.45um, filter lot W3160	NF/IZ	OK
4	STD4	STD4	CAL4	05/22/25 12:13		NF/IZ	OK
5	STD5	STD5	CAL5	05/22/25 12:35		NF/IZ	OK
6	STD6	STD6	CAL6	05/22/25 12:56		NF/IZ	OK
7	STD7	STD7	CAL7	05/22/25 13:17		NF/IZ	OK
8	ICV1	ICV1	ICV	05/22/25 13:39		NF/IZ	OK
9	ICB1	ICB1	ICB	05/22/25 14:22		NF/IZ	OK
10	CCV1	CCV1	CCV	06/05/25 14:09		NF/IZ	OK
11	CCB1	CCB1	CCB	06/05/25 14:31		NF/IZ	OK
12	LB136018BLW	LB136018BLW	MB	06/05/25 14:52		NF/IZ	OK
13	LB136018BSW	LB136018BSW	LCS	06/05/25 15:14		NF/IZ	OK
14	Q2234-01	MW-17B-55-060425	SAM	06/05/25 15:35	CL high	NF/IZ	Dilution
15	Q2234-02	MW-17B-55-060425M	MS	06/05/25 15:57	9.5ml of sample, 0.5mL W3092	NF/IZ	OK
16	Q2234-03	MW-17B-55-060425M	MSD	06/05/25 16:19	9.5ml of sample, 0.5mL W3092	NF/IZ	OK
17	Q2234-05	MW-18B-56-060425	SAM	06/05/25 16:40	CL,SO4 high	NF/IZ	Dilution
18	Q2234-06	MW-18B-56-060425-F	SAM	06/05/25 17:02	CL,SO4 high	NF/IZ	Dilution

Instrument ID: IC-1

Daily Analysis Runlog For Sequence/QC Batch ID # LB136018

Review By	rubina	Review On	6/10/2025 10:15:09 AM
Supervise By	Iwona	Supervise On	6/10/2025 11:29:48 AM
SubDirectory	LB136018	Test	Anions

STD. NAME	STD REF.#
ICAL Standard	WP113186,WP113187,WP113188,WP113189,WP113190,WP113191,WP113192
ICV Standard	WP113193
CCV Standard	WP113391,WP113409
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113392,WP113410
Chk Standard	WP113194,WP113195

19	Q2234-07	MW-19B-72-060425	SAM	06/05/25 17:23	CL,SO4 high	NF/IZ	Dilution
20	Q2234-01DL	MW-17B-55-060425D	SAM	06/05/25 17:44	5X for CL	NF/IZ	Confirms
21	Q2234-05DL	MW-18B-56-060425D	SAM	06/05/25 18:27	10X for CL,SO4	NF/IZ	Confirms
22	CCV2	CCV2	CCV	06/05/25 18:49		NF/IZ	OK
23	CCB2	CCB2	CCB	06/05/25 19:10		NF/IZ	OK
24	CCV3	CCV3	CCV	06/06/25 10:29		NF/IZ	OK
25	CCB3	CCB3	CCB	06/06/25 10:51		NF/IZ	OK
26	LB136018BLW2	LB136018BLW2	MB	06/06/25 11:12		NF/IZ	OK
27	LB136018BSW2	LB136018BSW2	LCS	06/06/25 11:34		NF/IZ	OK
28	Q2250-05	EB02-060525	SAM	06/06/25 11:55		NF/IZ	OK
29	Q2234-06DL	MW-18B-56-060425-F	SAM	06/06/25 12:17	10X for CL,SO4	NF/IZ	Confirms
30	Q2234-07DL	MW-19B-72-060425D	SAM	06/06/25 12:38	20X for CL,SO4	NF/IZ	Confirms
31	CCV4	CCV4	CCV	06/06/25 13:00		NF/IZ	OK
32	CCB4	CCB4	CCB	06/06/25 13:21		NF/IZ	OK

Instrument ID: WC SC-3

Daily Analysis Runlog For Sequence/QC Batch ID # LB136041

Review By	jignesh	Review On	6/9/2025 10:21:18 AM
Supervise By	Iwona	Supervise On	6/9/2025 1:13:30 PM
SubDirectory	LB136041	Test	TDS
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	N/A		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	LB136041BL	LB136041BL	MB	06/06/25 12:30		jignesh	OK
2	LB136041BS	LB136041BS	LCS	06/06/25 12:30		jignesh	OK
3	Q2231-01	MW-10D-20250604	SAM	06/06/25 12:30		jignesh	OK
4	Q2231-03	MW-15-20250604	SAM	06/06/25 12:30		jignesh	OK
5	Q2231-04	MW-16D-20250604	SAM	06/06/25 12:30		jignesh	OK
6	Q2231-05	MW-17-20250604	SAM	06/06/25 12:30		jignesh	OK
7	Q2231-05DUP	MW-17-20250604DUP	DUP	06/06/25 12:30		jignesh	OK
8	Q2234-01	MW-17B-55-060425	SAM	06/06/25 12:30		jignesh	OK
9	Q2234-05	MW-18B-56-060425	SAM	06/06/25 12:30		jignesh	OK
10	Q2234-06	MW-18B-56-060425-F	SAM	06/06/25 12:30		jignesh	OK
11	Q2234-07	MW-19B-72-060425	SAM	06/06/25 12:30		jignesh	OK
12	Q2250-05	EB02-060525	SAM	06/06/25 12:30		jignesh	OK
13	Q2253-02	RW8-SP303-2025060	SAM	06/06/25 12:30		jignesh	OK

Instrument ID: TITRATOR

Daily Analysis Runlog For Sequence/QC Batch ID # LB136111

Review By	Eman	Review On	6/11/2025 1:27:22 PM
Supervise By	Iwona	Supervise On	6/11/2025 1:27:31 PM
SubDirectory	LB136111	Test	Alkalinity
STD. NAME	STD REF.#		
ICAL Standard	N/A		
ICV Standard	N/A		
CCV Standard	N/A		
ICSA Standard	N/A		
CRI Standard	N/A		
LCS Standard	N/A		
Chk Standard	WP113464,W3150		

Sr#	SampleID	ClientID	QcType	Date	Comment	Operator	Status
1	LB136111BL	LB136111BL	MB	06/10/25 12:45		Iwona	OK
2	LB136111BS	LB136111BS	LCS	06/10/25 12:50		Iwona	OK
3	Q2250-05	EB02-060525	SAM	06/10/25 12:55		Iwona	OK
4	Q2250-05DUP	EB02-060525DUP	DUP	06/10/25 13:00		Iwona	OK

LAB CHRONICLE

OrderID:	Q2250	OrderDate:	6/5/2025 4:22:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	D22,N31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2250-05	EB02-060525	WATER			06/05/25 09:30			06/05/25
			Alkalinity	SM2320 B			06/10/25 12:55	
			Anions Group1	9056A			06/06/25 11:55	
			TDS	SM2540 C			06/06/25 12:30	