

Hit Summary Sheet SW-846

SDG No.: Q2869
Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-19B-71.5-081325							
Q2869-01	MW-19B-71.5-0813	Water	cis-1,2-Dichloroethene	4900		19.0	100	ug/L
Q2869-01	MW-19B-71.5-0813	Water	Trichloroethene	5400		9.30	100	ug/L
Q2869-01	MW-19B-71.5-0813	Water	Tetrachloroethene	240		23.0	100	ug/L
			Total Voc :	10500				
			Total Concentration:	10500				
Client ID:	MW-01-6.5-081325							
Q2869-03	MW-01-6.5-081325	Water	cis-1,2-Dichloroethene	14.2		0.19	1.00	ug/L
Q2869-03	MW-01-6.5-081325	Water	Trichloroethene	41.5		0.090	1.00	ug/L
Q2869-03	MW-01-6.5-081325	Water	Tetrachloroethene	0.31	J	0.23	1.00	ug/L
			Total Voc :	56.0				
			Total Concentration:	56.0				
Client ID:	MW-11A-13.5-081325							
Q2869-04	MW-11A-13.5-0813	Water	Vinyl Chloride	11.2		2.60	10.0	ug/L
Q2869-04	MW-11A-13.5-0813	Water	cis-1,2-Dichloroethene	1500		1.90	10.0	ug/L
Q2869-04	MW-11A-13.5-0813	Water	Trichloroethene	1900	E	0.93	10.0	ug/L
Q2869-04	MW-11A-13.5-0813	Water	Tetrachloroethene	14.1		2.30	10.0	ug/L
			Total Voc :	3430				
			Total Concentration:	3430				
Client ID:	MW-11A-13.5-081325DL							
Q2869-04DL	MW-11A-13.5-0813	Water	cis-1,2-Dichloroethene	1500	D	3.80	20.0	ug/L
Q2869-04DL	MW-11A-13.5-0813	Water	Trichloroethene	1900	D	1.90	20.0	ug/L
Q2869-04DL	MW-11A-13.5-0813	Water	Tetrachloroethene	13.2	JD	4.60	20.0	ug/L
			Total Voc :	3410				
			Total Concentration:	3410				
Client ID:	MW-19B-71.5-081325-FD							
Q2869-05	MW-19B-71.5-0813	Water	Vinyl Chloride	29.5	J	10.4	40.0	ug/L
Q2869-05	MW-19B-71.5-0813	Water	1,1-Dichloroethene	27.6	J	9.20	40.0	ug/L
Q2869-05	MW-19B-71.5-0813	Water	cis-1,2-Dichloroethene	4200		7.60	40.0	ug/L
Q2869-05	MW-19B-71.5-0813	Water	Trichloroethene	4100		3.70	40.0	ug/L
Q2869-05	MW-19B-71.5-0813	Water	Tetrachloroethene	180		9.20	40.0	ug/L
			Total Voc :	8540				
			Total Concentration:	8540				



SAMPLE DATA

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	MW-01-6.5-081325	SDG No.:	Q2869
Lab Sample ID:	Q2869-03	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047462.D	1	08/21/25 12:22	VX082125

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	14.2		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	41.5		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	0.31	J	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		70 (74) - 130 (125)	120%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	48.8		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.5		70 (77) - 130 (121)	113%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	206000	5.568			
540-36-3	1,4-Difluorobenzene	419000	6.769			
3114-55-4	Chlorobenzene-d5	421000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	214000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

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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:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	MW-11A-13.5-081325	SDG No.:	Q2869
Lab Sample ID:	Q2869-04	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047460.D	10	08/21/25 11:39	VX082125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	11.2		2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	1500		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1900	E	0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	14.1		2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.2		70 (74) - 130 (125)	104%	SPK: 50
1868-53-7	Dibromofluoromethane	47.9		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	48.1		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	209000	5.562			
540-36-3	1,4-Difluorobenzene	413000	6.769			
3114-55-4	Chlorobenzene-d5	400000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	194000	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	MW-11A-13.5-081325DL	SDG No.:	Q2869
Lab Sample ID:	Q2869-04DL	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047468.D	20	08/21/25 14:28	VX082125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	5.20	UD	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	1500	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	1900	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	13.2	JD	4.60	20.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.2		70 (74) - 130 (125)	106%	SPK: 50
1868-53-7	Dibromofluoromethane	48.4		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	48.4		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.1		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	195000	5.562			
540-36-3	1,4-Difluorobenzene	387000	6.769			
3114-55-4	Chlorobenzene-d5	376000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	186000	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	MW-19B-71.5-081325-FD	SDG No.:	Q2869
Lab Sample ID:	Q2869-05	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047461.D	40	08/21/25 12:00	VX082125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	29.5	J	10.4	40.0	ug/L
75-35-4	1,1-Dichloroethene	27.6	J	9.20	40.0	ug/L
75-34-3	1,1-Dichloroethane	9.20	U	9.20	40.0	ug/L
156-59-2	cis-1,2-Dichloroethene	4200		7.60	40.0	ug/L
71-55-6	1,1,1-Trichloroethane	8.00	U	8.00	40.0	ug/L
71-43-2	Benzene	6.00	U	6.00	40.0	ug/L
107-06-2	1,2-Dichloroethane	8.80	U	8.80	40.0	ug/L
79-01-6	Trichloroethene	4100		3.70	40.0	ug/L
79-00-5	1,1,2-Trichloroethane	8.40	U	8.40	40.0	ug/L
127-18-4	Tetrachloroethene	180		9.20	40.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.8		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	49.6		70 (75) - 130 (124)	99%	SPK: 50
2037-26-5	Toluene-d8	49.1		70 (86) - 130 (113)	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	235000	5.562			
540-36-3	1,4-Difluorobenzene	478000	6.769			
3114-55-4	Chlorobenzene-d5	478000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	248000	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	EB01-081325	SDG No.:	Q2869
Lab Sample ID:	Q2869-07	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047416.D	1	08/19/25 16:36	VX081925

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	60.9		70 (74) - 130 (125)	122%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		70 (75) - 130 (124)	103%	SPK: 50
2037-26-5	Toluene-d8	50.0		70 (86) - 130 (113)	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	57.2		70 (77) - 130 (121)	114%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	223000	5.562			
540-36-3	1,4-Difluorobenzene	450000	6.769			
3114-55-4	Chlorobenzene-d5	465000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	239000	12.018			

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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	EB02-081325	SDG No.:	Q2869
Lab Sample ID:	Q2869-10	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047417.D	1	08/19/25 16:57	VX081925

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	57.0		70 (74) - 130 (125)	114%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		70 (75) - 130 (124)	102%	SPK: 50
2037-26-5	Toluene-d8	50.3		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	56.2		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	206000	5.562			
540-36-3	1,4-Difluorobenzene	414000	6.769			
3114-55-4	Chlorobenzene-d5	418000	10.055			
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Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	08/13/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	08/13/25
Client Sample ID:	TB01-081325	SDG No.:	Q2869
Lab Sample ID:	Q2869-11	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047418.D	1	08/19/25 17:18	VX081925

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	58.6		70 (74) - 130 (125)	117%	SPK: 50
1868-53-7	Dibromofluoromethane	49.8		70 (75) - 130 (124)	100%	SPK: 50
2037-26-5	Toluene-d8	48.2		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.8		70 (77) - 130 (121)	112%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	205000	5.562			
540-36-3	1,4-Difluorobenzene	415000	6.769			
3114-55-4	Chlorobenzene-d5	421000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	220000	12.018			

U = Not Detected

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D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **Q2869**

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

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2869-01	MW-19B-71.5-081325	1,2-Dichloroethane-d4	50	57.9	116		70 (74)	130 (125)
		Dibromofluoromethane	50	50.5	101		70 (75)	130 (124)
		Toluene-d8	50	49.4	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.0	110		70 (77)	130 (121)
Q2869-03	MW-01-6.5-081325	1,2-Dichloroethane-d4	50	59.8	120		70 (74)	130 (125)
		Dibromofluoromethane	50	50.7	101		70 (75)	130 (124)
		Toluene-d8	50	48.8	98		70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.5	113		70 (77)	130 (121)
Q2869-04	MW-11A-13.5-081325	1,2-Dichloroethane-d4	50	52.2	104		70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96		70 (75)	130 (124)
		Toluene-d8	50	48.1	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.3	107		70 (77)	130 (121)
Q2869-04DL	MW-11A-13.5-081325DL	1,2-Dichloroethane-d4	50	53.2	106		70 (74)	130 (125)
		Dibromofluoromethane	50	48.4	97		70 (75)	130 (124)
		Toluene-d8	50	48.5	97		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.1	106		70 (77)	130 (121)
Q2869-05	MW-19B-71.5-081325-FD	1,2-Dichloroethane-d4	50	56.8	114		70 (74)	130 (125)
		Dibromofluoromethane	50	49.6	99		70 (75)	130 (124)
		Toluene-d8	50	49.1	98		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.7	111		70 (77)	130 (121)
Q2869-07	EB01-081325	1,2-Dichloroethane-d4	50	60.9	122		70 (74)	130 (125)
		Dibromofluoromethane	50	51.7	103		70 (75)	130 (124)
		Toluene-d8	50	50.0	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	57.2	114		70 (77)	130 (121)
Q2869-10	EB02-081325	1,2-Dichloroethane-d4	50	57.0	114		70 (74)	130 (125)
		Dibromofluoromethane	50	51.0	102		70 (75)	130 (124)
		Toluene-d8	50	50.3	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.1	112		70 (77)	130 (121)
Q2869-11	TB01-081325	1,2-Dichloroethane-d4	50	58.6	117		70 (74)	130 (125)
		Dibromofluoromethane	50	49.8	100		70 (75)	130 (124)
		Toluene-d8	50	48.2	96		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.8	112		70 (77)	130 (121)
VX0819WBL01	VX0819WBL01	1,2-Dichloroethane-d4	50	57.3	114		70 (74)	130 (125)
		Dibromofluoromethane	50	50.9	102		70 (75)	130 (124)
		Toluene-d8	50	49.5	99		70 (86)	130 (113)
		4-Bromofluorobenzene	50	56.1	112		70 (77)	130 (121)
VX0819WBS01	VX0819WBS01	1,2-Dichloroethane-d4	50	54.3	109		70 (74)	130 (125)
		Dibromofluoromethane	50	52.1	104		70 (75)	130 (124)
		Toluene-d8	50	50.5	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	52.8	106		70 (77)	130 (121)
VX0819WBSD0	VX0819WBSD01	1,2-Dichloroethane-d4	50	54.2	108		70 (74)	130 (125)
		Dibromofluoromethane	50	52.0	104		70 (75)	130 (124)
		Toluene-d8	50	50.7	101		70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.7	107		70 (77)	130 (121)
VX0821WBL01	VX0821WBL01	1,2-Dichloroethane-d4	50	57.4	115		70 (74)	130 (125)
		Dibromofluoromethane	50	49.0	98		70 (75)	130 (124)
		Toluene-d8	50	48.7	97		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.6	111		70 (77)	130 (121)
VX0821WBS02	VX0821WBS02	1,2-Dichloroethane-d4	50	57.3	115		70 (74)	130 (125)
		Dibromofluoromethane	50	51.6	103		70 (75)	130 (124)

() = LABORATORY INHOUSE LIMIT

Surrogate Summary

SDG No.: Q2869

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VX0821WBS02	VX0821WBS02	Toluene-d8	50	50.2	100		70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.6	111		70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2869</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX047403.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0819WBS01	Vinyl chloride	20	16.6	ug/L	83			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.3	ug/L	86			70 (74)	130 (110)	
	1,1-Dichloroethane	20	18.6	ug/L	93			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.5	ug/L	93			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	17.9	ug/L	90			70 (80)	130 (108)	
	Benzene	20	18.0	ug/L	90			70 (82)	130 (109)	
	1,2-Dichloroethane	20	18.7	ug/L	94			70 (80)	130 (115)	
	Trichloroethene	20	17.2	ug/L	86			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	18.8	ug/L	94			70 (83)	130 (112)	
	Tetrachloroethene	20	16.7	ug/L	84			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2869</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX047405.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0819WBSD01	Vinyl chloride	20	16.4	ug/L	82	1		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	16.5	ug/L	83	4		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	17.9	ug/L	90	3		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	17.8	ug/L	89	4		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	17.5	ug/L	88	2		70 (80)	130 (108)	20 (20)
	Benzene	20	17.6	ug/L	88	2		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	19.0	ug/L	95	1		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	17.1	ug/L	86	0		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	19.2	ug/L	96	2		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	16.4	ug/L	82	2		70 (67)	130 (123)	20 (15)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2869</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>JACOBS Engineering Group, Inc.</u>	Datafile :	<u>VX047467.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0821WBS02	Vinyl chloride	20	19.3	ug/L	97			70 (65)	130 (117)	
	1,1-Dichloroethene	20	20.0	ug/L	100			70 (74)	130 (110)	
	1,1-Dichloroethane	20	21.8	ug/L	109			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	21.9	ug/L	110			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	20.6	ug/L	103			70 (80)	130 (108)	
	Benzene	20	20.6	ug/L	103			70 (82)	130 (109)	
	1,2-Dichloroethane	20	21.5	ug/L	108			70 (80)	130 (115)	
	Trichloroethene	20	20.1	ug/L	101			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.9	ug/L	110			70 (83)	130 (112)	
	Tetrachloroethene	20	18.2	ug/L	91			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0819WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q2869

Lab File ID: VX047402.D

Lab Sample ID: VX0819WBL01

Date Analyzed: 08/19/2025

Time Analyzed: 10:55

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025
VX0819WBSD01	VX0819WBSD01	VX047405.D	08/19/2025
EB01-081325	Q2869-07	VX047416.D	08/19/2025
EB02-081325	Q2869-10	VX047417.D	08/19/2025
TB01-081325	Q2869-11	VX047418.D	08/19/2025
MW-19B-71.5-081325	Q2869-01	VX047421.D	08/19/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0821WBL01

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q2869

Lab File ID: VX047457.D

Lab Sample ID: VX0821WBL01

Date Analyzed: 08/21/2025

Time Analyzed: 10:24

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
MW-11A-13.5-081325	Q2869-04	VX047460.D	08/21/2025
MW-19B-71.5-081325-FD	Q2869-05	VX047461.D	08/21/2025
MW-01-6.5-081325	Q2869-03	VX047462.D	08/21/2025
VX0821WBS02	VX0821WBS02	VX047467.D	08/21/2025
MW-11A-13.5-081325DL	Q2869-04DL	VX047468.D	08/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VX047347.D
Instrument ID: MSVOA_X
GC Column: DB-624UI ID: 0.18 (mm)

Contract: JACO05
SDG NO.: Q2869
BFB Injection Date: 08/15/2025
BFB Injection Time: 08:28
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.3
75	30.0 - 60.0% of mass 95	51.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.9 (1.1) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	6.1 (8.2) 1
176	95.0 - 101.0% of mass 174	71.9 (96.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VX047349.D	08/15/2025	09:40
VSTDIC020	VSTDIC020	VX047350.D	08/15/2025	10:01
VSTDIC050	VSTDIC050	VX047351.D	08/15/2025	10:22
VSTDIC100	VSTDIC100	VX047352.D	08/15/2025	10:43
VSTDIC150	VSTDIC150	VX047353.D	08/15/2025	11:05
VSTDIC001	VSTDIC001	VX047356.D	08/15/2025	12:30

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q2869

Lab File ID: VX047399.D

BFB Injection Date: 08/19/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:38

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19
75	30.0 - 60.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.1
175	5.0 - 9.0% of mass 174	5.3 (7.4) 1
176	95.0 - 101.0% of mass 174	70.3 (97.6) 1
177	5.0 - 9.0% of mass 176	5 (7.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047400.D	08/19/2025	09:37
VX0819WBL01	VX0819WBL01	VX047402.D	08/19/2025	10:55
VX0819WBS01	VX0819WBS01	VX047403.D	08/19/2025	11:55
VX0819WBSD01	VX0819WBSD01	VX047405.D	08/19/2025	12:37
EB01-081325	Q2869-07	VX047416.D	08/19/2025	16:36
EB02-081325	Q2869-10	VX047417.D	08/19/2025	16:57
TB01-081325	Q2869-11	VX047418.D	08/19/2025	17:18
MW-19B-71.5-081325	Q2869-01	VX047421.D	08/19/2025	18:22

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: JACO05

Lab Code: ACE

SDG NO.: Q2869

Lab File ID: VX047454.D

BFB Injection Date: 08/21/2025

Instrument ID: MSVOA_X

BFB Injection Time: 07:58

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	51.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	77.9
175	5.0 - 9.0% of mass 174	5.5 (7.1) 1
176	95.0 - 101.0% of mass 174	74.3 (95.4) 1
177	5.0 - 9.0% of mass 176	5 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047455.D	08/21/2025	09:35
VX0821WBL01	VX0821WBL01	VX047457.D	08/21/2025	10:24
MW-11A-13.5-081325	Q2869-04	VX047460.D	08/21/2025	11:39
MW-19B-71.5-081325-FD	Q2869-05	VX047461.D	08/21/2025	12:00
MW-01-6.5-081325	Q2869-03	VX047462.D	08/21/2025	12:22
VX0821WBS02	VX0821WBS02	VX047467.D	08/21/2025	14:07
MW-11A-13.5-081325DL	Q2869-04DL	VX047468.D	08/21/2025	14:28

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q2869
 Lab File ID: VX047400.D Date Analyzed: 08/19/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:37
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	203851	5.56	365078	6.76	334051	10.06
UPPER LIMIT	407702	6.062	730156	7.263	668102	10.555
LOWER LIMIT	101926	5.062	182539	6.263	167026	9.555
EPA SAMPLE NO.						
MW-19B-71.5-081325	199878	5.57	404740	6.77	406772	10.06
EB01-081325	223227	5.56	449571	6.77	464745	10.06
EB02-081325	205773	5.56	414097	6.77	417583	10.06
TB01-081325	204851	5.56	415100	6.77	420679	10.06
VX0819WBL01	204625	5.56	410508	6.76	416324	10.06
VX0819WBS01	225610	5.56	400778	6.76	370967	10.05
VX0819WBSD01	228746	5.57	395063	6.77	371284	10.06

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: Alliance Contract: JACO05
 Lab Code: ACE SDG NO.: Q2869
 Lab File ID: VX047400.D Date Analyzed: 08/19/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:37
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	167955	12.018				
UPPER LIMIT	335910	12.518				
LOWER LIMIT	83977.5	11.518				
EPA SAMPLE NO.						
MW-19B-71.5-081325	210685	12.02				
EB01-081325	238761	12.02				
EB02-081325	212656	12.02				
TB01-081325	219893	12.02				
VX0819WBL01	212865	12.02				
VX0819WBS01	189862	12.02				
VX0819WBSD01	189413	12.02				

IS4 = 1,4-Dichlorobenzene-d4

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: JAC005
Lab Code: ACE SDG NO.: Q2869
Lab File ID: VX047455.D Date Analyzed: 08/21/2025
Instrument ID: MSVOA_X Time Analyzed: 09:35
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	229258	5.56	398048	6.76	349454	10.05
UPPER LIMIT	458516	6.056	796096	7.263	698908	10.549
LOWER LIMIT	114629	5.056	199024	6.263	174727	9.549
EPA SAMPLE NO.						
MW-01-6.5-081325	206081	5.57	418758	6.77	421107	10.06
MW-11A-13.5-081325	209250	5.56	413436	6.77	399927	10.06
MW-11A-13.5-081325DL	195089	5.56	386665	6.77	376333	10.06
MW-19B-71.5-081325-FD	234783	5.56	477817	6.77	477729	10.06
VX0821WBL01	216518	5.56	445927	6.77	448054	10.06
VX0821WBS02	219757	5.56	395822	6.77	370697	10.06

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

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

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>JACO05</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2869</u>
Lab File ID:	<u>VX047455.D</u>	Date Analyzed:	<u>08/21/2025</u>
Instrument ID:	<u>MSVOA_X</u>	Time Analyzed:	<u>09:35</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	170891	12.018				
UPPER LIMIT	341782	12.518				
LOWER LIMIT	85445.5	11.518				
EPA SAMPLE NO.						
MW-01-6.5-081325	214194	12.02				
MW-11A-13.5-081325	194035	12.02				
MW-11A-13.5-081325DL	185836	12.02				
MW-19B-71.5-081325-FD	247621	12.02				
VX0821WBL01	231897	12.02				
VX0821WBS02	193487	12.02				

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:	VX0821WBL01	SDG No.:	Q2869
Lab Sample ID:	VX0821WBL01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047457.D	1	08/21/25 10:24	VX082125

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	57.4		70 (74) - 130 (125)	115%	SPK: 50
1868-53-7	Dibromofluoromethane	48.9		70 (75) - 130 (124)	98%	SPK: 50
2037-26-5	Toluene-d8	48.7		70 (86) - 130 (113)	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.6		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	217000	5.562			
540-36-3	1,4-Difluorobenzene	446000	6.769			
3114-55-4	Chlorobenzene-d5	448000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	232000	12.018			

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:	VX0819WBS01	SDG No.:	Q2869
Lab Sample ID:	VX0819WBS01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047403.D	1	08/19/25 11:55	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.6		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.3		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.5		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.9		0.20	1.00	ug/L
71-43-2	Benzene	18.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.2		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	18.8		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	16.7		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.3		70 (74) - 130 (125)	109%	SPK: 50
1868-53-7	Dibromofluoromethane	52.1		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.6		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.8		70 (77) - 130 (121)	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	226000	5.556			
540-36-3	1,4-Difluorobenzene	401000	6.763			
3114-55-4	Chlorobenzene-d5	371000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	190000	12.018			

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

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:	VX0819WBSD01	SDG No.:	Q2869
Lab Sample ID:	VX0819WBSD01	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:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047405.D	1	08/19/25 12:37	VX081925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.4		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	16.5		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.9		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	17.8		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.5		0.20	1.00	ug/L
71-43-2	Benzene	17.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.0		0.22	1.00	ug/L
79-01-6	Trichloroethene	17.1		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.2		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	16.4		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.2		70 (74) - 130 (125)	108%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		70 (75) - 130 (124)	104%	SPK: 50
2037-26-5	Toluene-d8	50.7		70 (86) - 130 (113)	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		70 (77) - 130 (121)	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	229000	5.568			
540-36-3	1,4-Difluorobenzene	395000	6.769			
3114-55-4	Chlorobenzene-d5	371000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	189000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>JAC005</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2869</u>
Instrument ID: <u>MSVOA_X</u>	Calibration Date(s): <u>08/15/2025</u> <u>08/15/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:40</u> <u>12:30</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

LAB FILE ID:		RRF005 = VX047349.D		RRF020 = VX047350.D		RRF050 = VX047351.D		
		RRF100 = VX047352.D		RRF150 = VX047353.D		RRF001 = VX047356.D		
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD
Vinyl Chloride	0.651	0.751	0.800	0.729	0.757	0.630	0.720	9.2
1,1-Dichloroethene	0.575	0.664	0.697	0.635	0.651	0.555	0.630	8.6
1,1-Dichloroethane	1.180	1.294	1.356	1.210	1.238	1.052	1.222	8.5
cis-1,2-Dichloroethene	0.758	0.826	0.846	0.769	0.779	0.692	0.778	7
1,1,1-Trichloroethane	1.043	1.151	1.195	1.081	1.106	0.863	1.073	10.8
Benzene	1.502	1.665	1.701	1.516	1.504	1.312	1.533	9.1
1,2-Dichloroethane	0.521	0.594	0.600	0.532	0.528	0.484	0.543	8.3
Trichloroethene	0.383	0.423	0.432	0.390	0.391	0.336	0.393	8.6
1,1,2-Trichloroethane	0.358	0.393	0.396	0.352	0.347	0.313	0.360	8.6
Tetrachloroethene	0.351	0.384	0.398	0.360	0.360	0.316	0.362	7.8
1,2-Dichloroethane-d4	0.709	0.581	0.700	0.747	0.762		0.700	10.2
Dibromofluoromethane	0.310	0.278	0.331	0.354	0.349		0.325	9.6
Toluene-d8	1.157	0.994	1.171	1.246	1.232		1.160	8.7
4-Bromofluorobenzene	0.441	0.371	0.428	0.452	0.448		0.428	7.8

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2869</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>08/19/2025</u> <u>09:37</u>
Lab File ID:	<u>VX047400.D</u>	Init. Calib. Date(s):	<u>08/15/2025</u> <u>08/15/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:40</u> <u>12:30</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.720	0.658		-8.61	20
1,1-Dichloroethene	0.630	0.596		-5.4	20
1,1-Dichloroethane	1.222	1.251	0.1	2.37	20
cis-1,2-Dichloroethene	0.778	0.806		3.6	20
1,1,1-Trichloroethane	1.073	1.041		-2.98	20
Benzene	1.533	1.493		-2.61	20
1,2-Dichloroethane	0.543	0.561		3.32	20
Trichloroethene	0.393	0.360		-8.4	20
1,1,2-Trichloroethane	0.360	0.376		4.44	20
Tetrachloroethene	0.362	0.319		-11.88	20
1,2-Dichloroethane-d4	0.700	0.805		15	20
Dibromofluoromethane	0.325	0.344		5.85	20
Toluene-d8	1.160	1.173		1.12	20
4-Bromofluorobenzene	0.428	0.455		6.31	20

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>JAC005</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2869</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>08/21/2025</u> <u>09:35</u>
Lab File ID:	<u>VX047455.D</u>	Init. Calib. Date(s):	<u>08/15/2025</u> <u>08/15/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:40</u> <u>12:30</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.720	0.680		-5.56	20
1,1-Dichloroethene	0.630	0.604		-4.13	20
1,1-Dichloroethane	1.222	1.230	0.1	0.65	20
cis-1,2-Dichloroethene	0.778	0.772		-0.77	20
1,1,1-Trichloroethane	1.073	1.042		-2.89	20
Benzene	1.533	1.480		-3.46	20
1,2-Dichloroethane	0.543	0.540		-0.55	20
Trichloroethene	0.393	0.363		-7.63	20
1,1,2-Trichloroethane	0.360	0.356		-1.11	20
Tetrachloroethene	0.362	0.340		-6.08	20
1,2-Dichloroethane-d4	0.700	0.705		0.71	20
Dibromofluoromethane	0.325	0.317		-2.46	20
Toluene-d8	1.160	1.105		-4.74	20
4-Bromofluorobenzene	0.428	0.421		-1.64	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_X\Data\VX081925\
 Data File : VX047421.D
 Acq On : 19 Aug 2025 18:22
 Operator : JC/MD
 Sample : Q2869-01 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19B-71.5-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 20 01:31:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

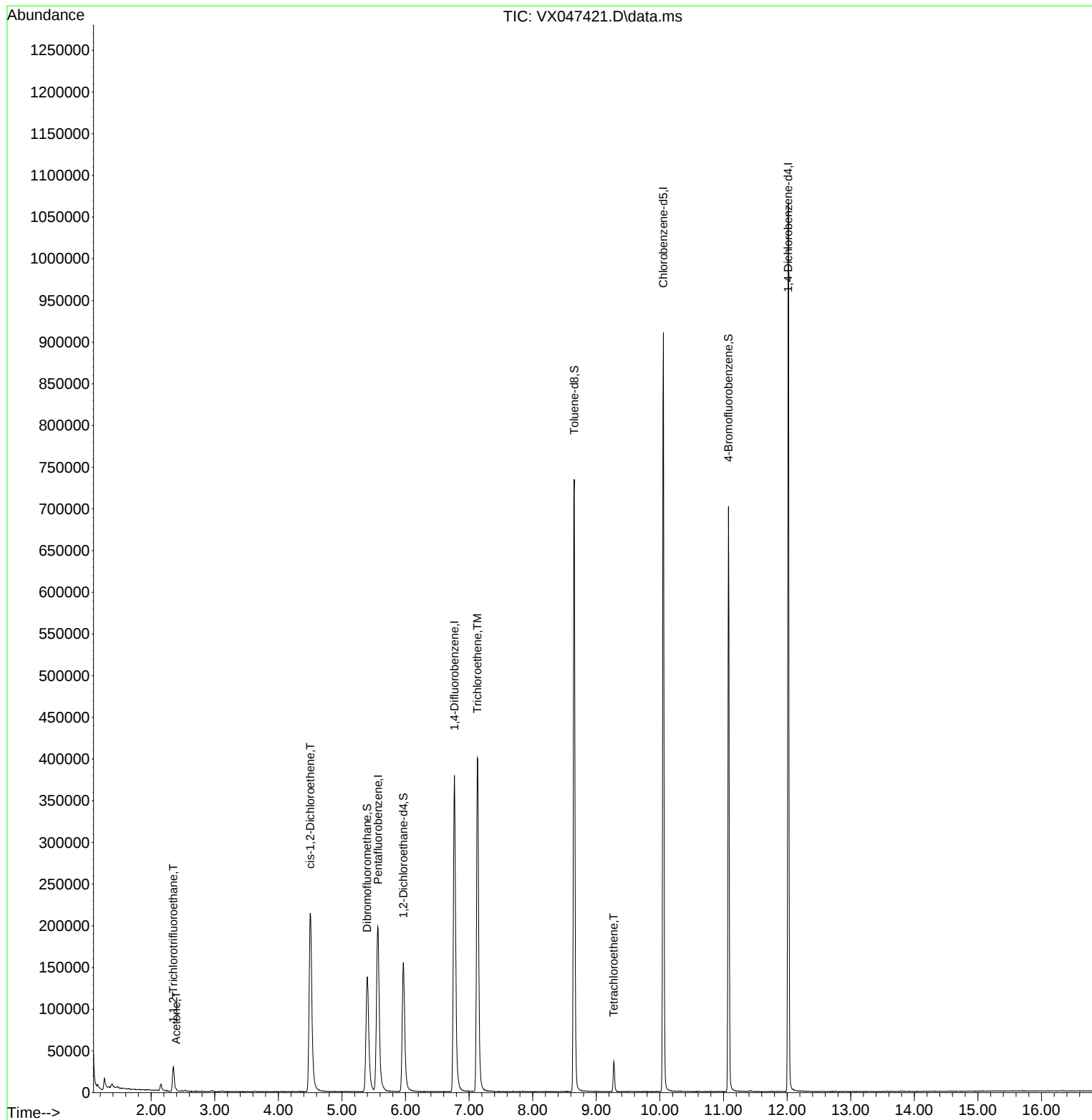
Internal Standards						
1) Pentafluorobenzene	5.568	168	199878	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	404740	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	406772	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	210685	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	161847	57.857	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	115.720%
35) Dibromofluoromethane	5.397	113	132697	50.517	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.040%
50) Toluene-d8	8.653	98	463512	49.368	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	98.740%
62) 4-Bromofluorobenzene	11.079	95	190416	54.959	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	109.920%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.349	101	12950	5.246	ug/l	98
16) Acetone	2.392	43	2004	1.906	ug/l #	84
27) cis-1,2-Dichloroethene	4.501	96	151907	48.828	ug/l	90
44) Trichloroethene	7.129	130	170320	53.593	ug/l	100
64) Tetrachloroethene	9.275	164	7149	2.430	ug/l	95

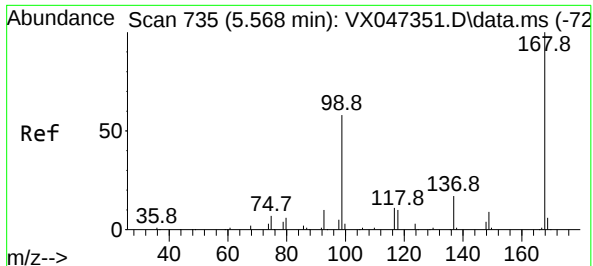
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047421.D
Acq On : 19 Aug 2025 18:22
Operator : JC/MD
Sample : Q2869-01 100X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 23 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325

Quant Time: Aug 20 01:31:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

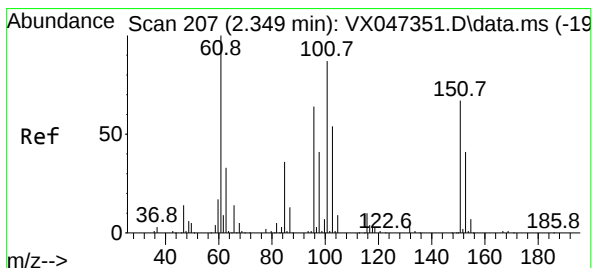
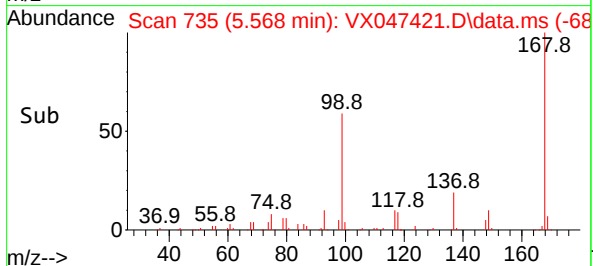
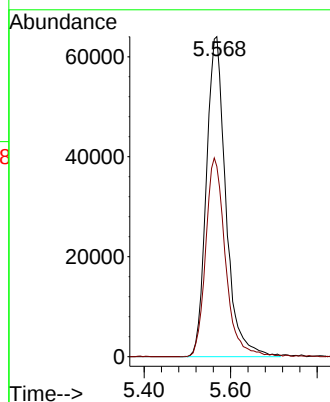
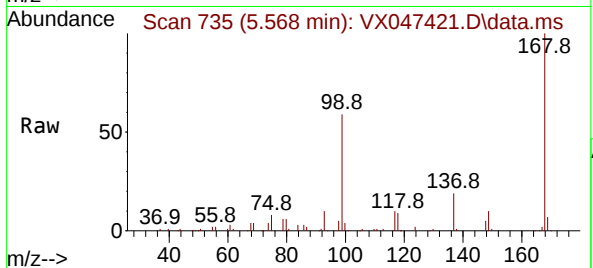




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047421.D
Acq: 19 Aug 2025 18:22

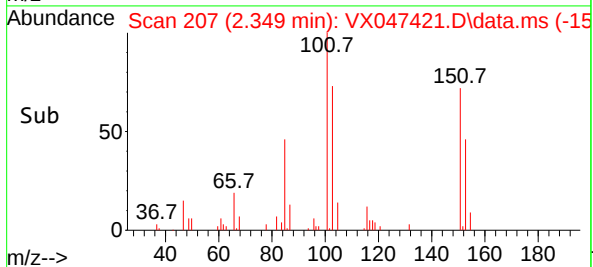
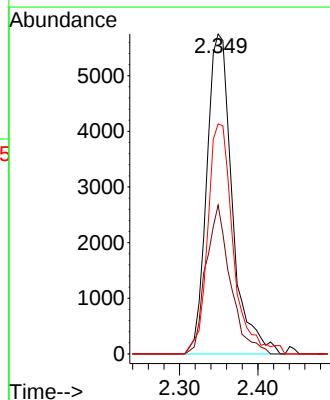
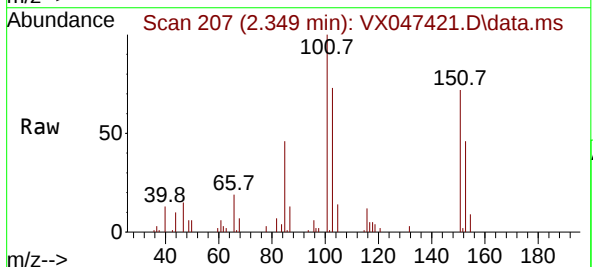
Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325

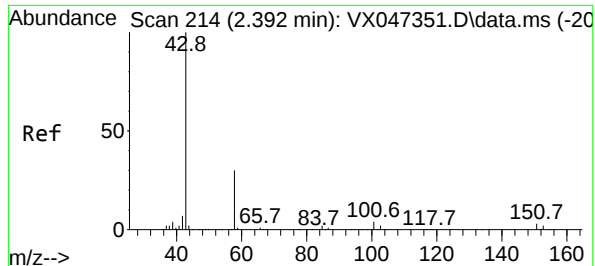
Tgt Ion:168 Resp: 199878
Ion Ratio Lower Upper
168 100
99 59.5 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.246 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047421.D
Acq: 19 Aug 2025 18:22

Tgt Ion:101 Resp: 12950
Ion Ratio Lower Upper
101 100
85 44.8 34.3 51.5
151 72.1 59.2 88.8





#16

Acetone

Concen: 1.906 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

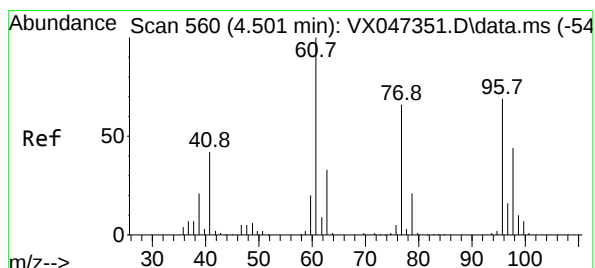
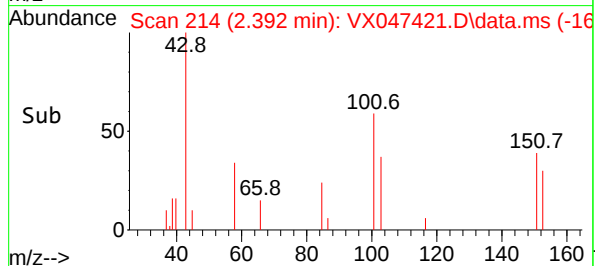
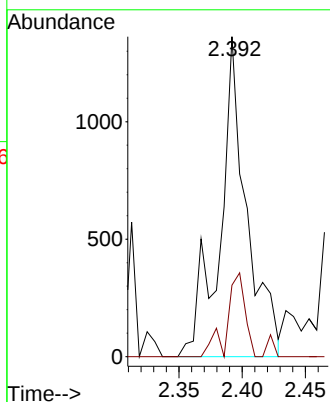
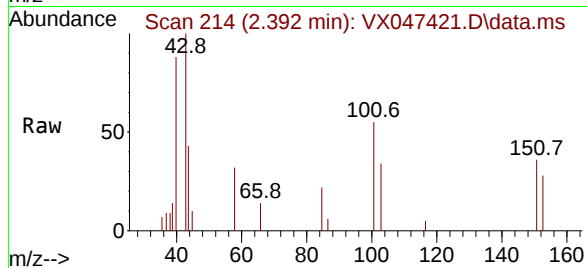
MW-19B-71.5-081325

Tgt Ion: 43 Resp: 2004

Ion Ratio Lower Upper

43 100

58 22.3 24.8 37.2#



#27

cis-1,2-Dichloroethene

Concen: 48.828 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

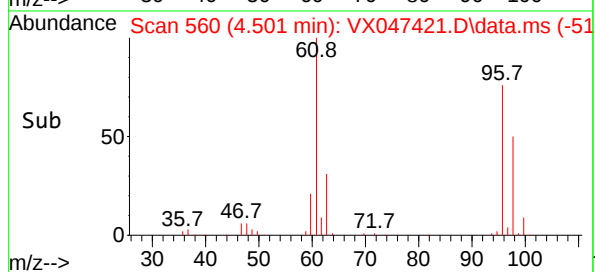
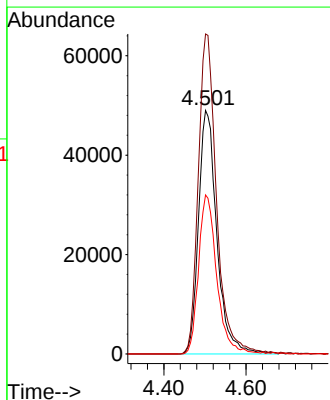
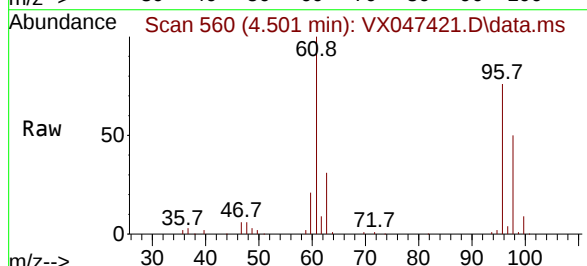
Tgt Ion: 96 Resp: 151907

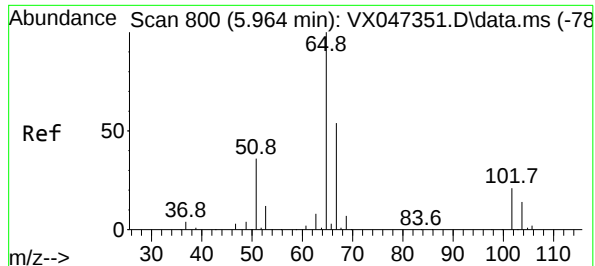
Ion Ratio Lower Upper

96 100

61 130.7 0.0 296.6

98 64.8 0.0 130.4





#33

1,2-Dichloroethane-d4

Concen: 57.857 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

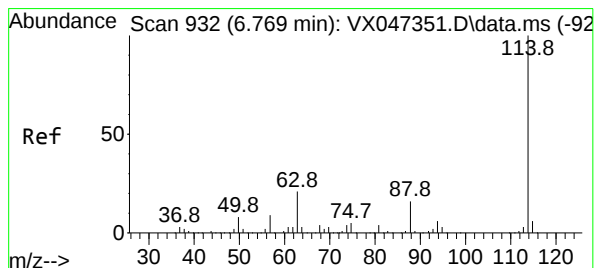
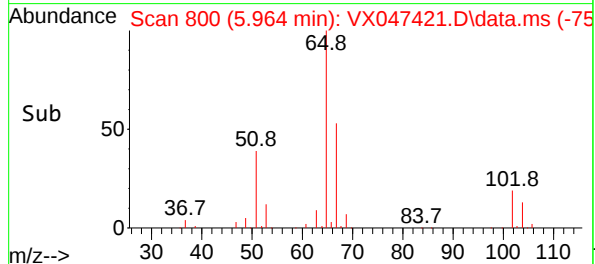
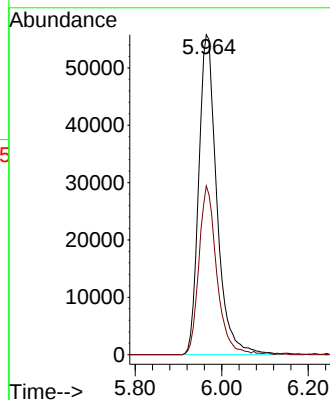
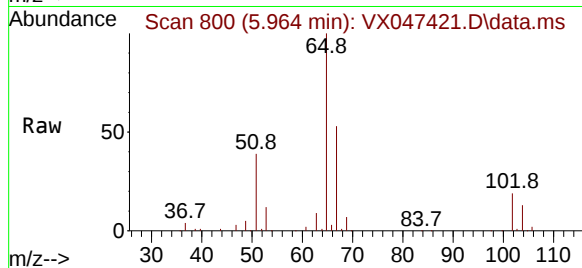
MW-19B-71.5-081325

Tgt Ion: 65 Resp: 161847

Ion Ratio Lower Upper

65 100

67 51.7 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

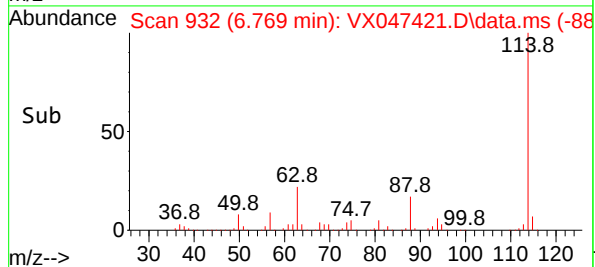
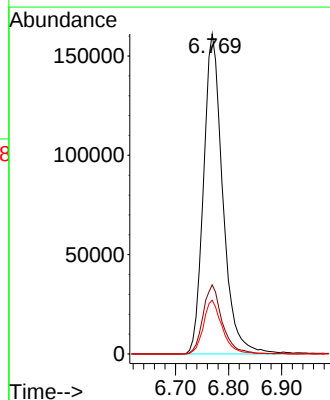
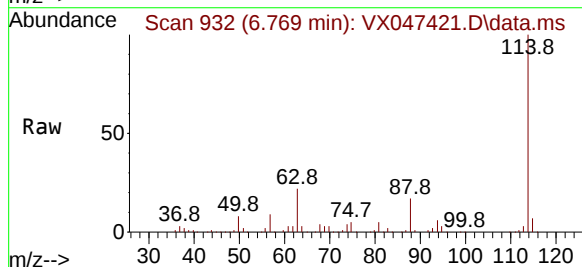
Tgt Ion: 114 Resp: 404740

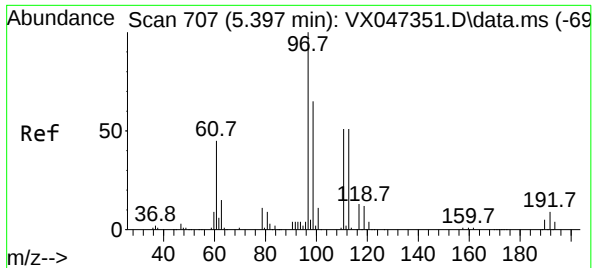
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.4

88 16.8 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.517 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047421.D

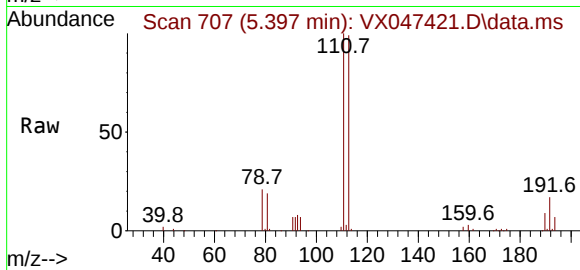
Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325



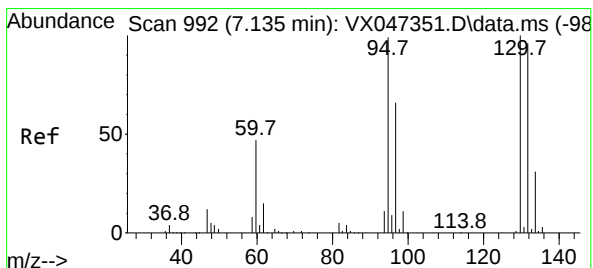
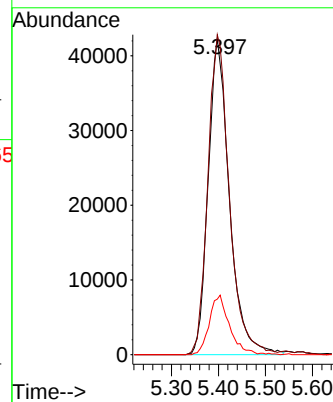
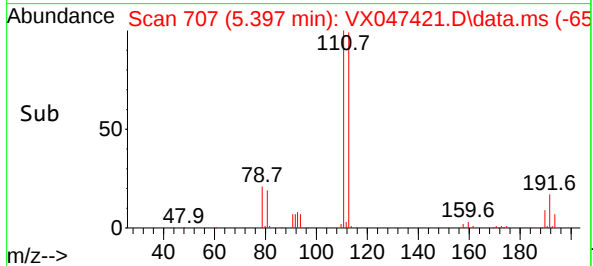
Tgt Ion:113 Resp: 132697

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.2

192 18.0 14.1 21.1



#44

Trichloroethene

Concen: 53.593 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047421.D

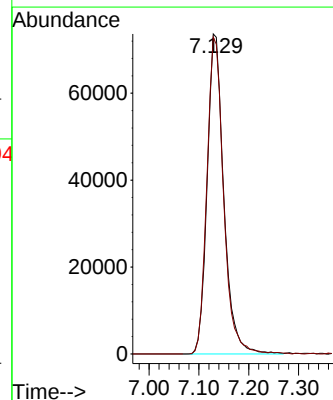
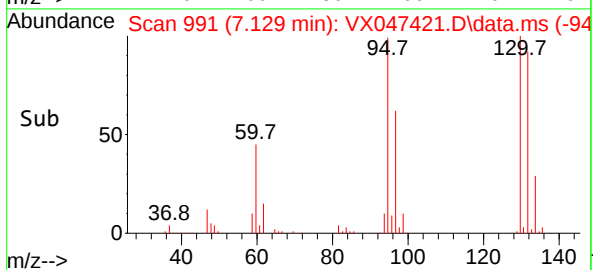
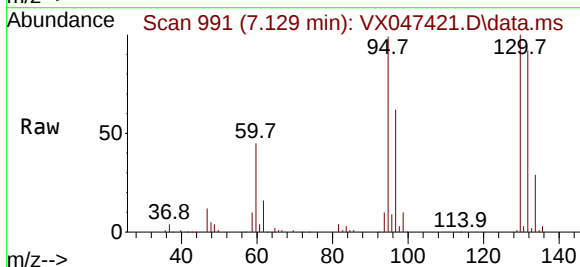
Acq: 19 Aug 2025 18:22

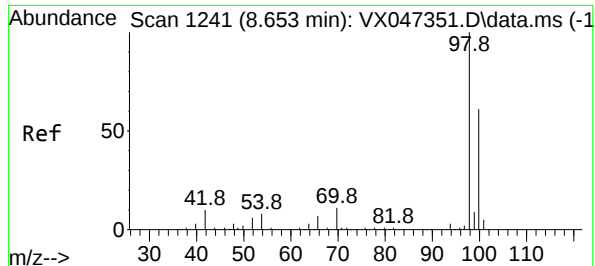
Tgt Ion:130 Resp: 170320

Ion Ratio Lower Upper

130 100

95 99.0 0.0 198.6





#50

Toluene-d8

Concen: 49.368 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

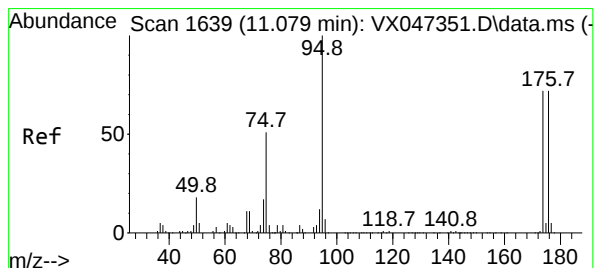
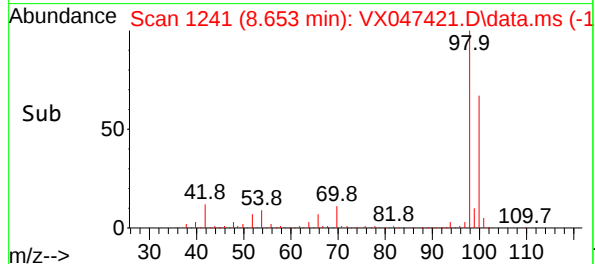
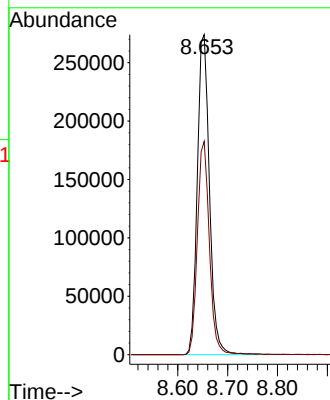
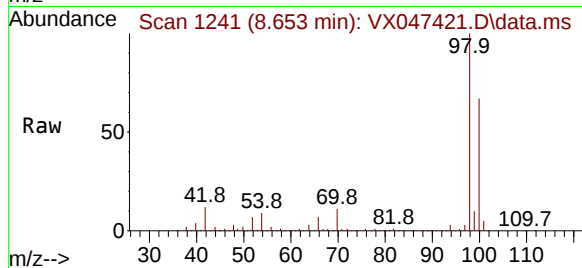
MW-19B-71.5-081325

Tgt Ion: 98 Resp: 463512

Ion Ratio Lower Upper

98 100

100 65.8 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 54.959 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

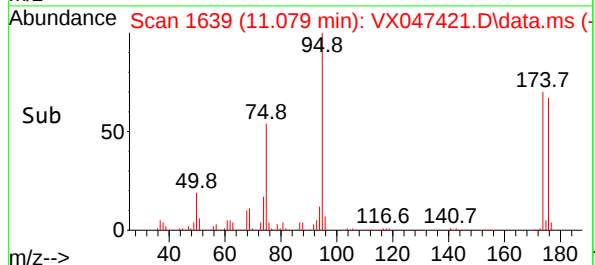
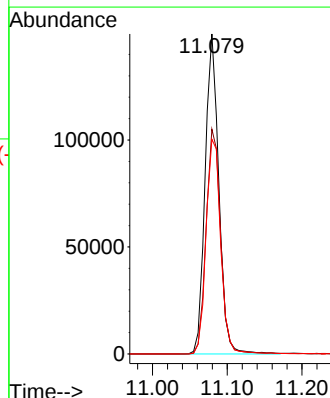
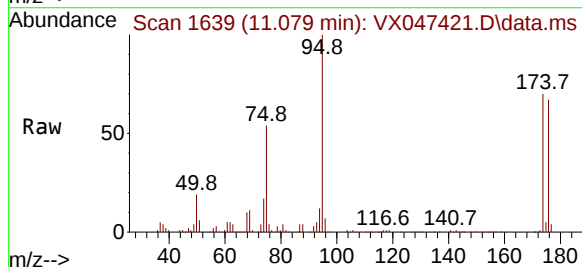
Tgt Ion: 95 Resp: 190416

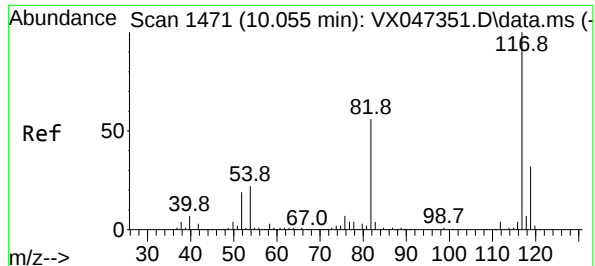
Ion Ratio Lower Upper

95 100

174 74.5 0.0 148.0

176 71.8 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325

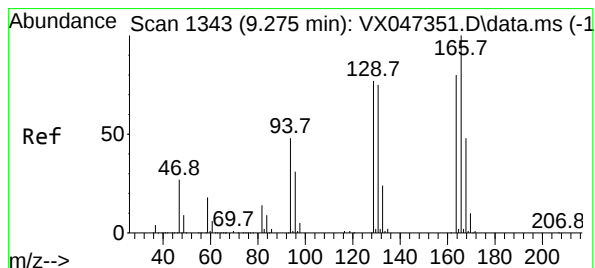
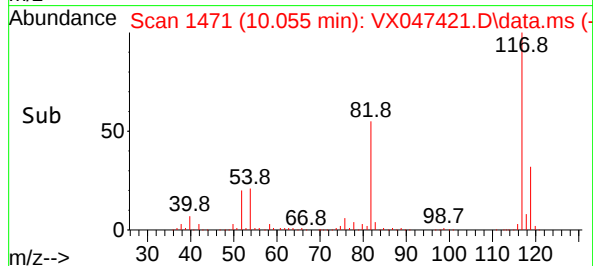
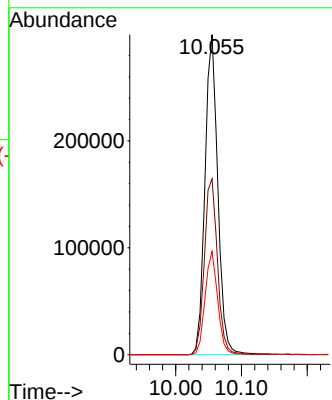
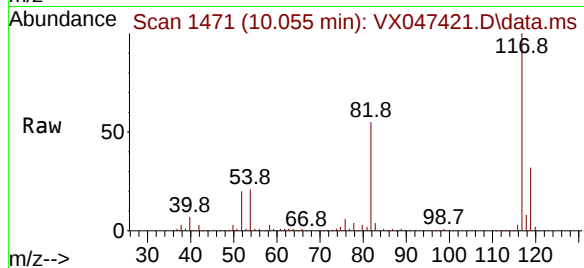
Tgt Ion:117 Resp: 406772

Ion Ratio Lower Upper

117 100

82 55.0 45.0 67.4

119 32.2 25.8 38.8



#64

Tetrachloroethene

Concen: 2.430 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.000 min

Lab File: VX047421.D

Acq: 19 Aug 2025 18:22

Tgt Ion:164 Resp: 7149

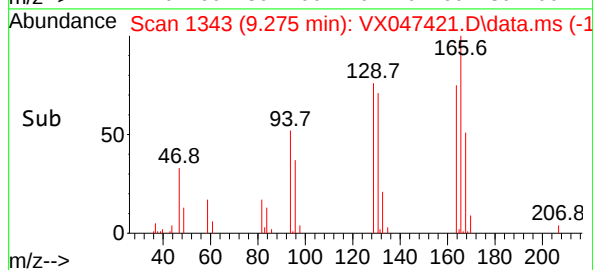
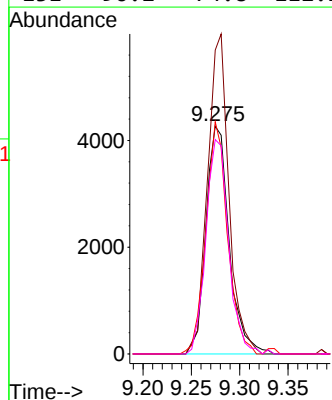
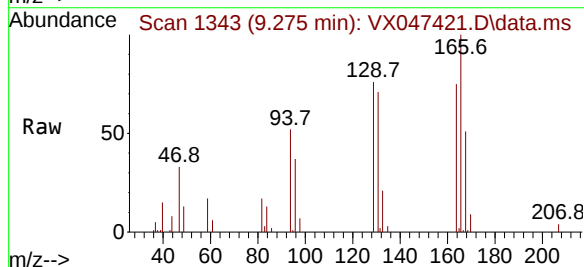
Ion Ratio Lower Upper

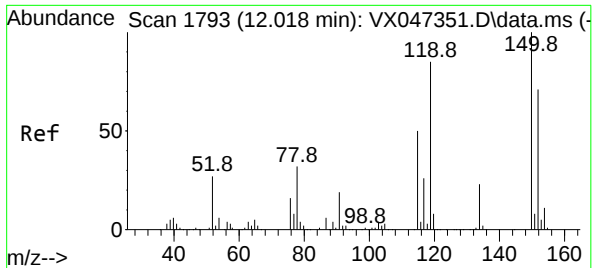
164 100

166 133.4 100.3 150.5

129 102.0 77.7 116.5

131 96.2 74.8 112.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047421.D

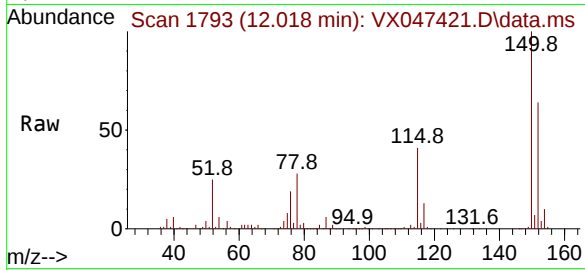
Acq: 19 Aug 2025 18:22

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325



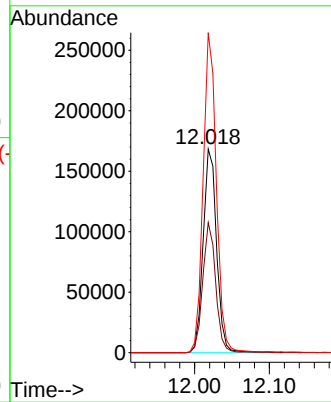
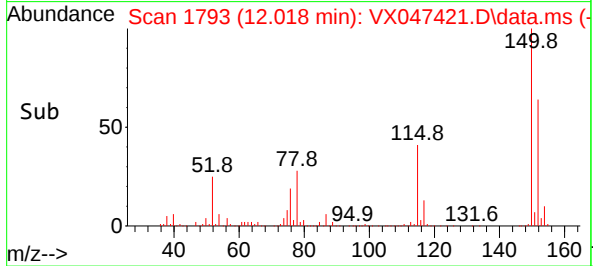
Tgt Ion:152 Resp: 210685

Ion Ratio Lower Upper

152 100

115 61.9 44.6 133.8

150 154.1 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047462.D
 Acq On : 21 Aug 2025 12:22
 Operator : JC/MD
 Sample : Q2869-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-01-6.5-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 22 03:43:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

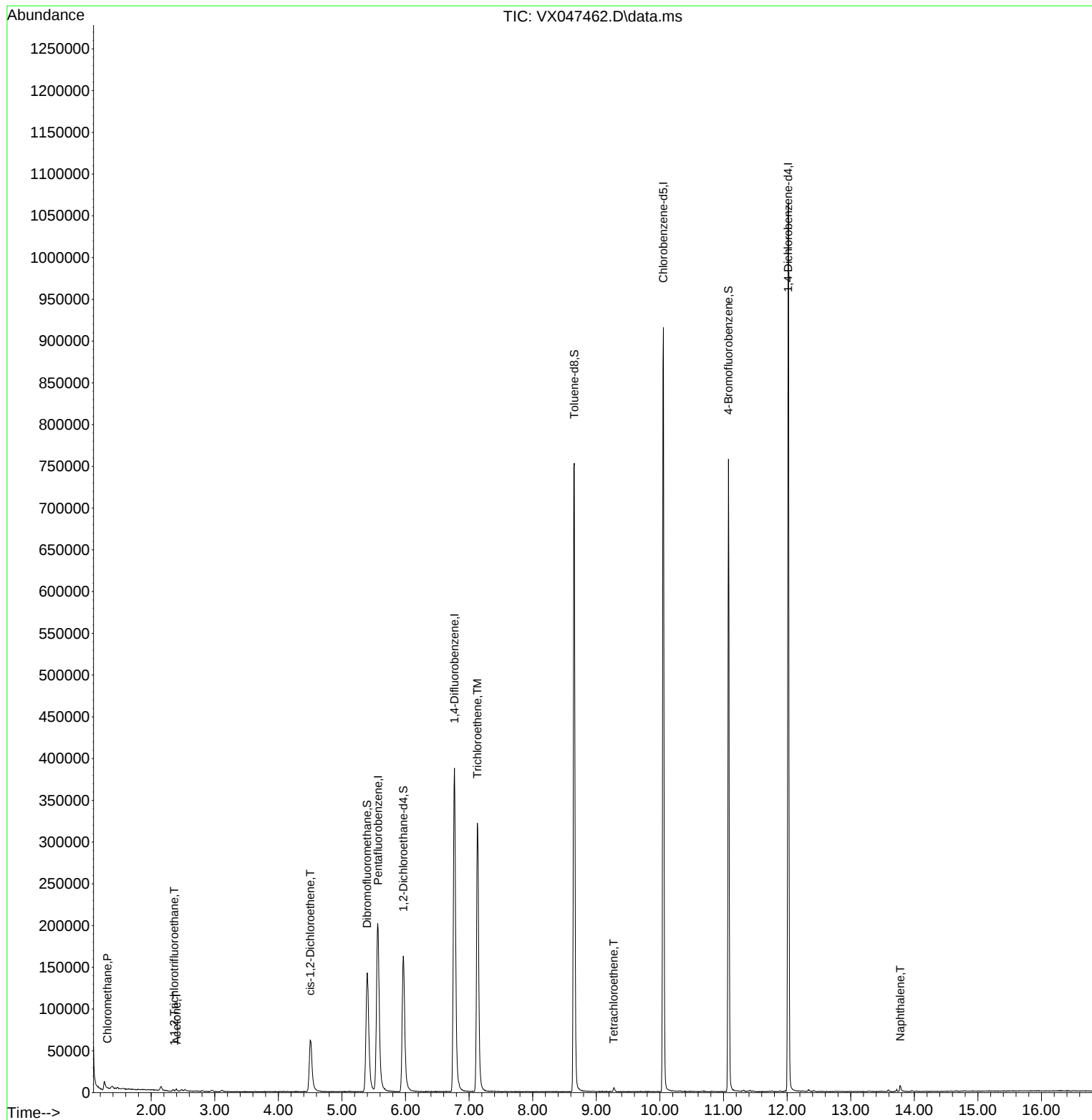
Internal Standards						
1) Pentafluorobenzene	5.568	168	206081	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	418758	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	421107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	214194	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	172517	59.815	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 119.640%#		
35) Dibromofluoromethane	5.397	113	137805	50.705	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.420%		
50) Toluene-d8	8.653	98	473569	48.751	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 97.500%		
62) 4-Bromofluorobenzene	11.079	95	202612	56.522	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 113.040%		
Target Compounds						
						Qvalue
3) Chloromethane	1.313	50	685	0.290	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.361	101	770	0.303	ug/l	89
16) Acetone	2.398	43	4044	3.730	ug/l #	79
27) cis-1,2-Dichloroethene	4.501	96	45426	14.162	ug/l	90
44) Trichloroethene	7.129	130	136522	41.520	ug/l	97
64) Tetrachloroethene	9.275	164	938	0.308	ug/l #	82
95) Naphthalene	13.780	128	6519	0.458	ug/l #	93

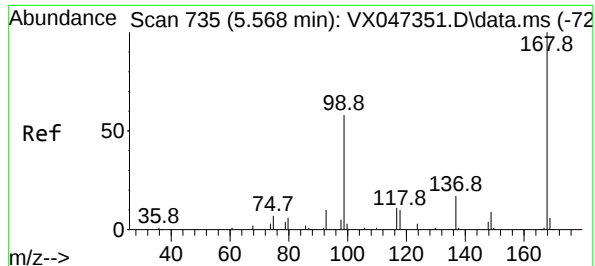
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047462.D
Acq On : 21 Aug 2025 12:22
Operator : JC/MD
Sample : Q2869-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-01-6.5-081325

Quant Time: Aug 22 03:43:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

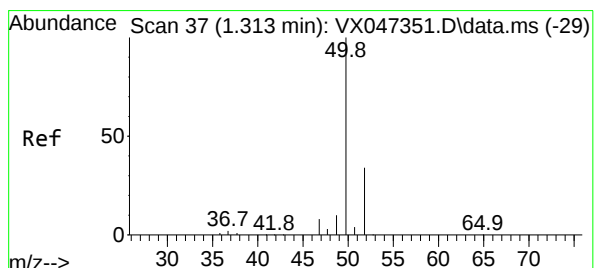
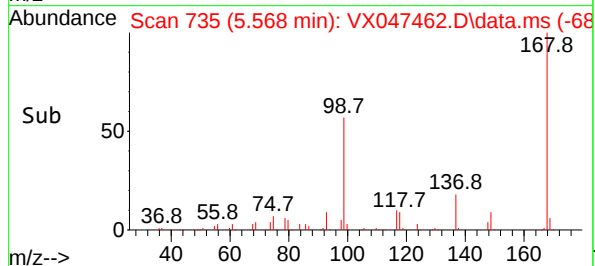
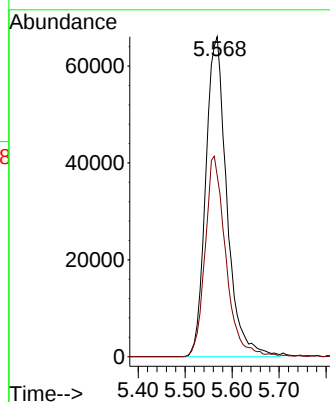
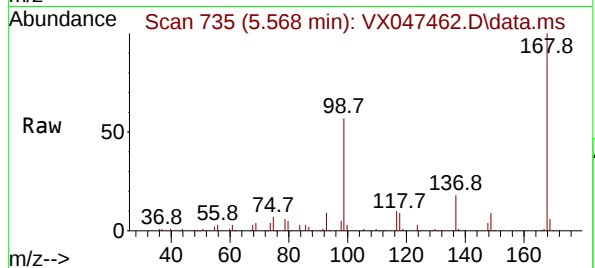




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047462.D
Acq: 21 Aug 2025 12:22

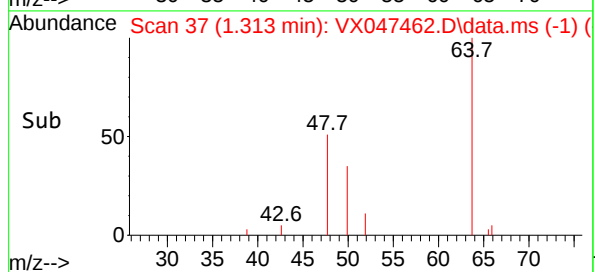
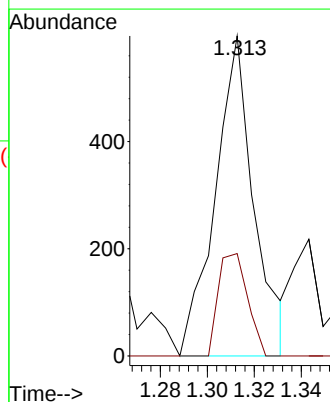
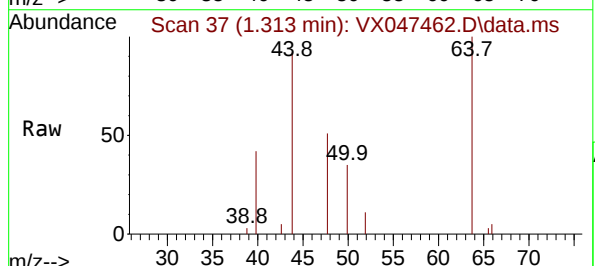
Instrument :
MSVOA_X
ClientSampleId :
MW-01-6.5-081325

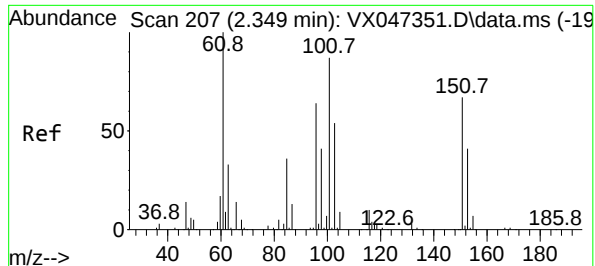
Tgt Ion:168 Resp: 206081
Ion Ratio Lower Upper
168 100
99 56.6 47.9 71.9



#3
Chloromethane
Concen: 0.290 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX047462.D
Acq: 21 Aug 2025 12:22

Tgt Ion: 50 Resp: 685
Ion Ratio Lower Upper
50 100
52 32.0 27.0 40.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.303 ug/l

RT: 2.361 min Scan# 207

Delta R.T. 0.012 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

MW-01-6.5-081325

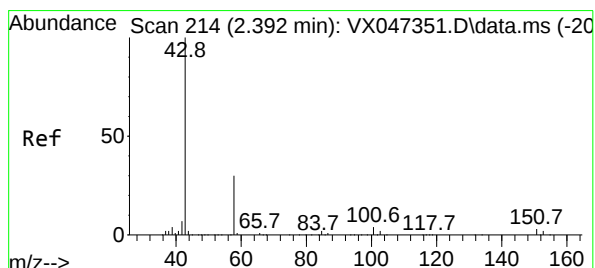
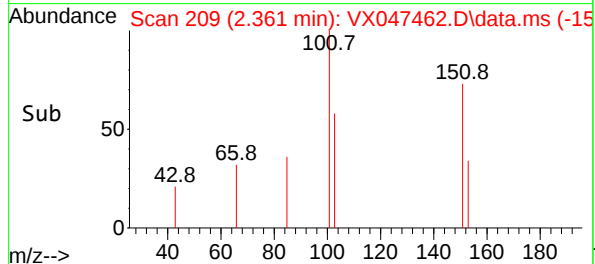
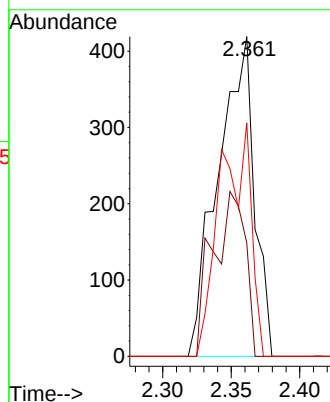
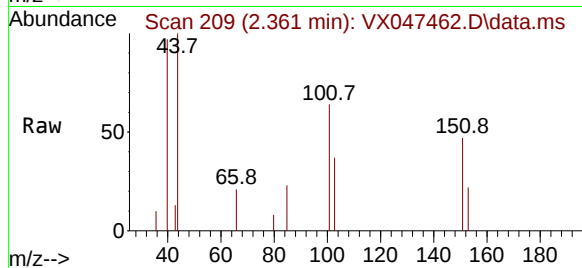
Tgt Ion:101 Resp: 770

Ion Ratio Lower Upper

101 100

85 46.4 34.3 51.5

151 62.6 59.2 88.8



#16

Acetone

Concen: 3.730 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX047462.D

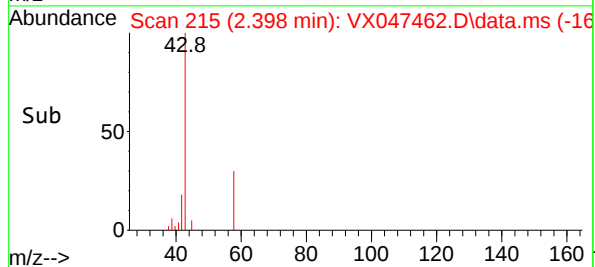
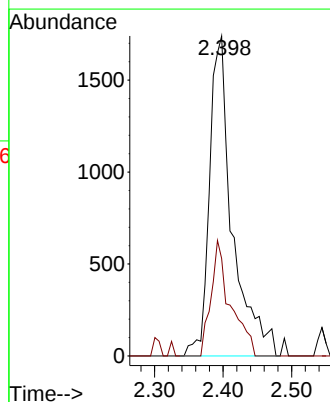
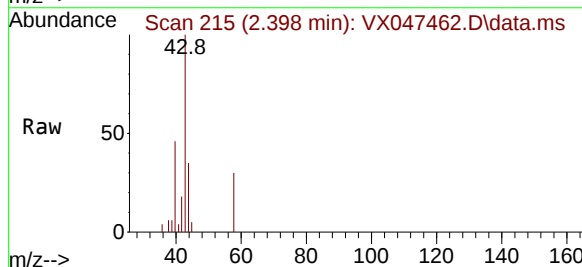
Acq: 21 Aug 2025 12:22

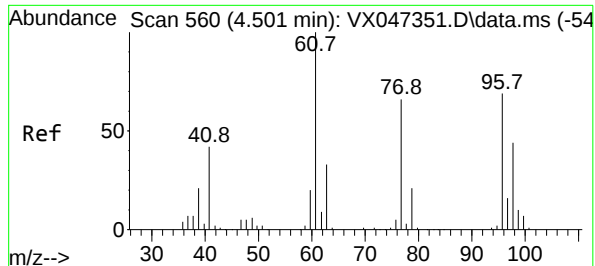
Tgt Ion: 43 Resp: 4044

Ion Ratio Lower Upper

43 100

58 42.4 24.8 37.2#





#27

cis-1,2-Dichloroethene

Concen: 14.162 ug/l

RT: 4.501 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

MW-01-6.5-081325

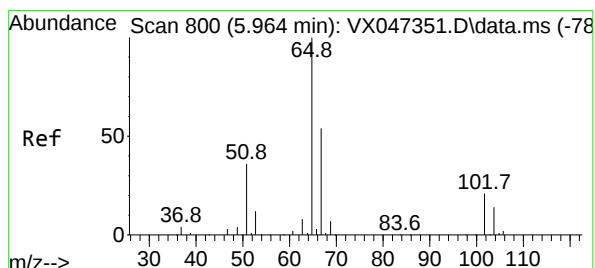
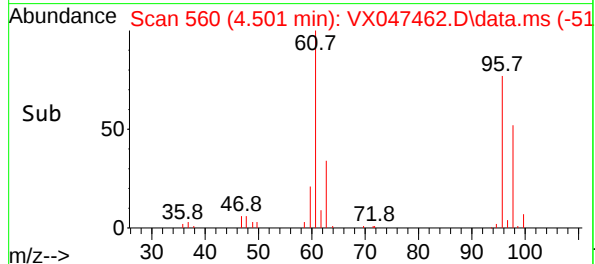
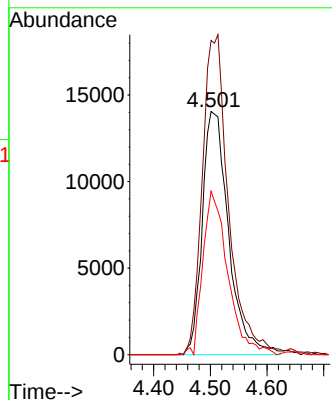
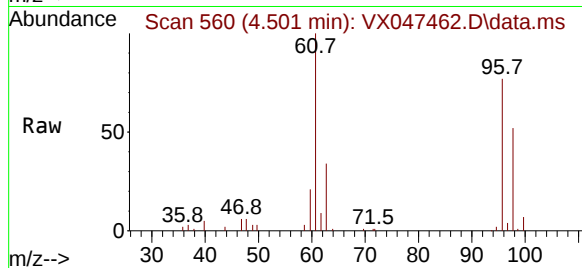
Tgt Ion: 96 Resp: 45426

Ion Ratio Lower Upper

96 100

61 130.6 0.0 296.6

98 63.5 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 59.815 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047462.D

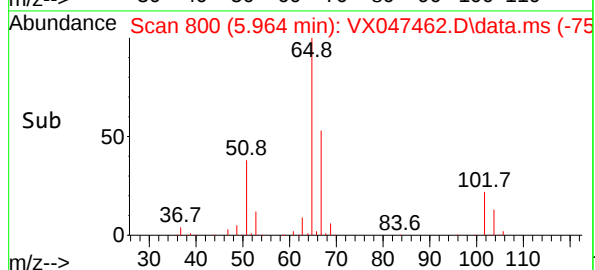
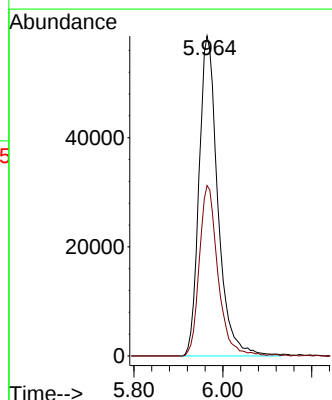
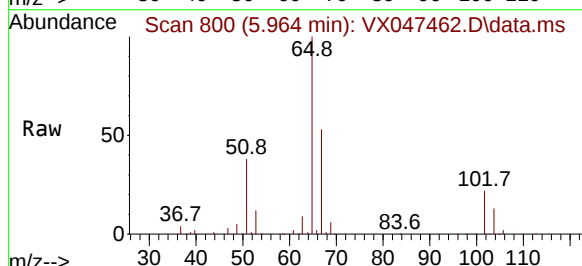
Acq: 21 Aug 2025 12:22

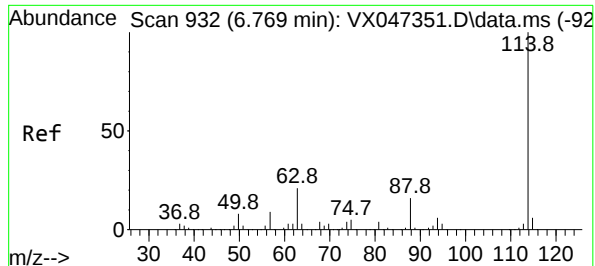
Tgt Ion: 65 Resp: 172517

Ion Ratio Lower Upper

65 100

67 52.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

MW-01-6.5-081325

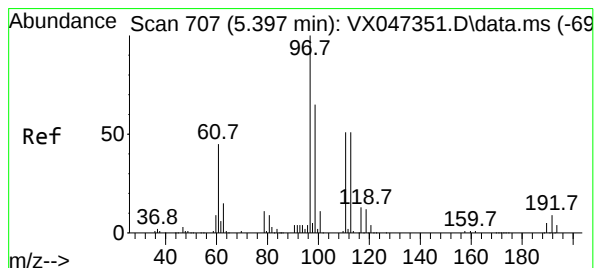
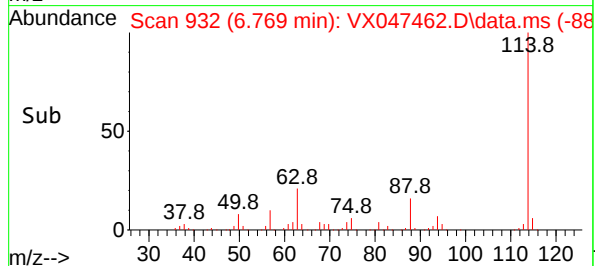
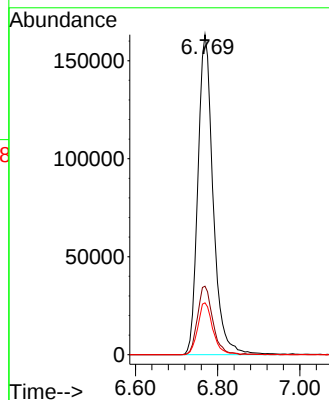
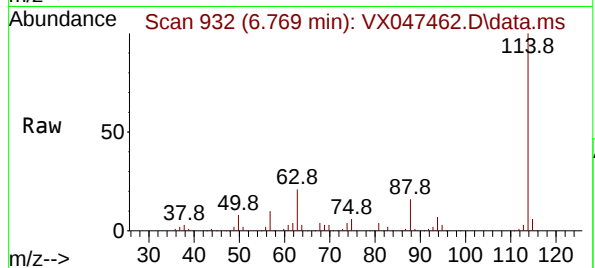
Tgt Ion:114 Resp: 418758

Ion Ratio Lower Upper

114 100

63 21.4 0.0 42.4

88 16.2 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.705 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

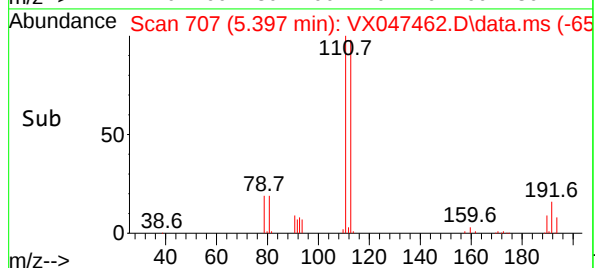
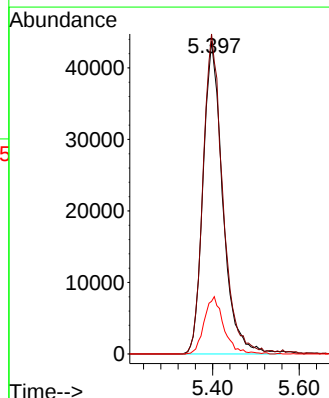
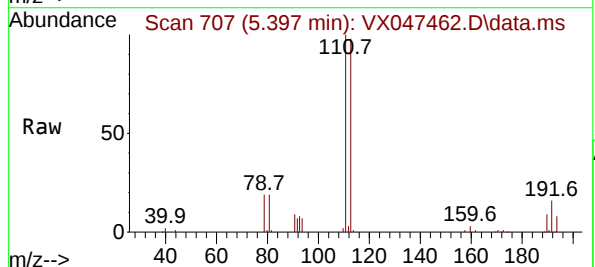
Tgt Ion:113 Resp: 137805

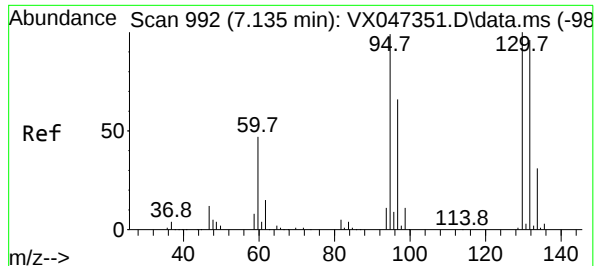
Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.2

192 18.0 14.1 21.1





#44

Trichloroethene

Concen: 41.520 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

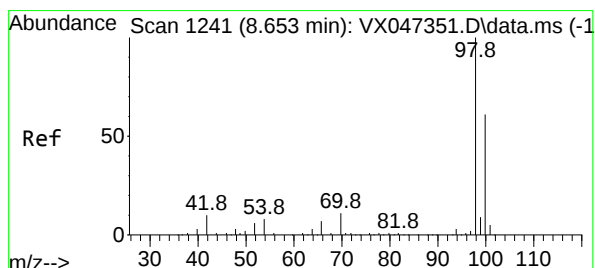
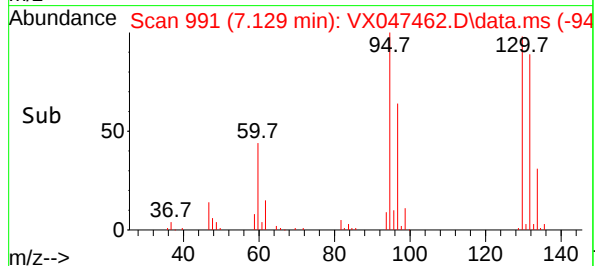
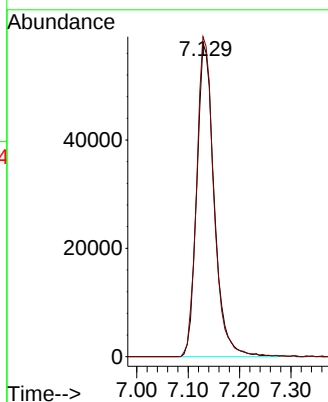
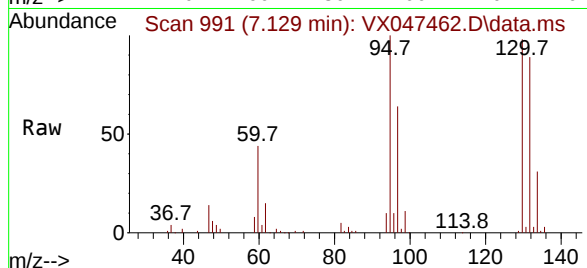
MW-01-6.5-081325

Tgt Ion:130 Resp: 136522

Ion Ratio Lower Upper

130 100

95 102.1 0.0 198.6



#50

Toluene-d8

Concen: 48.751 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047462.D

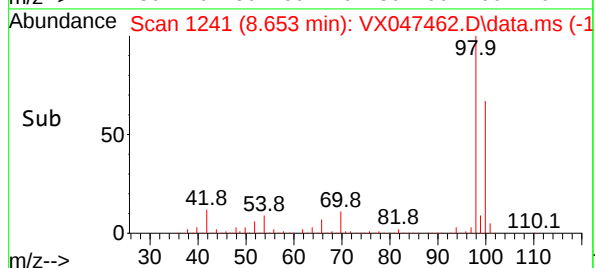
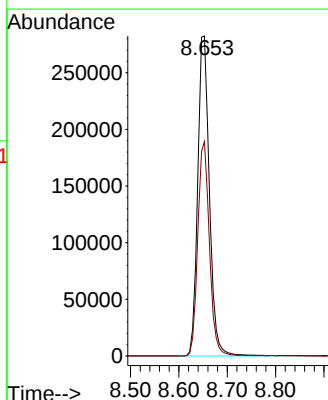
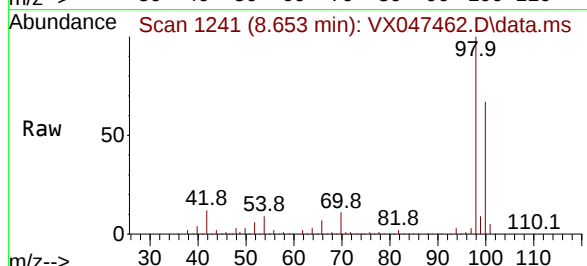
Acq: 21 Aug 2025 12:22

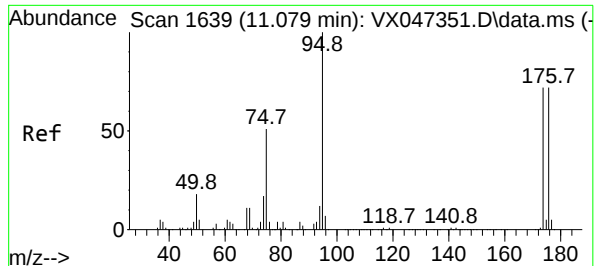
Tgt Ion: 98 Resp: 473569

Ion Ratio Lower Upper

98 100

100 66.5 53.9 80.9

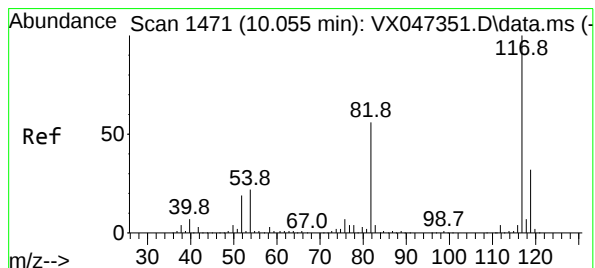
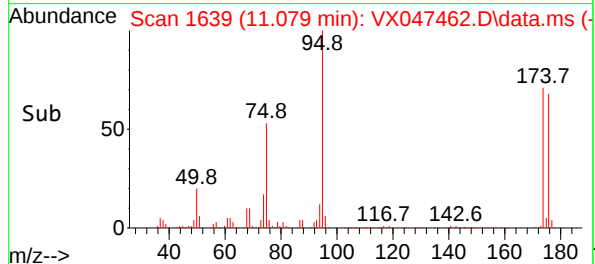
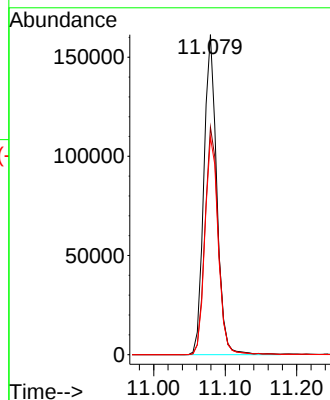
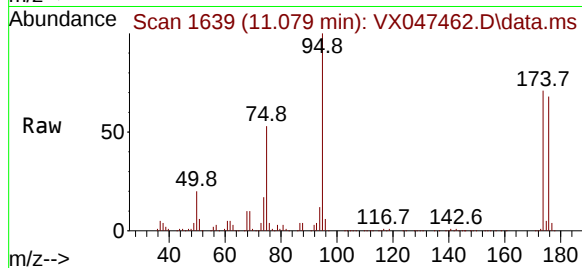




#62
4-Bromofluorobenzene
Concen: 56.522 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047462.D
Acq: 21 Aug 2025 12:22

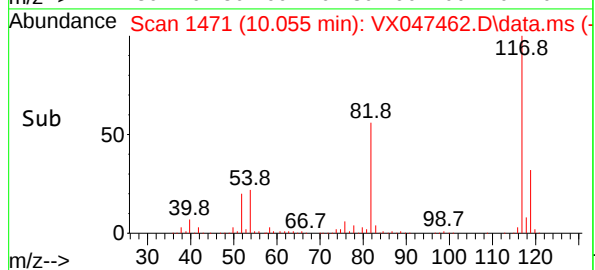
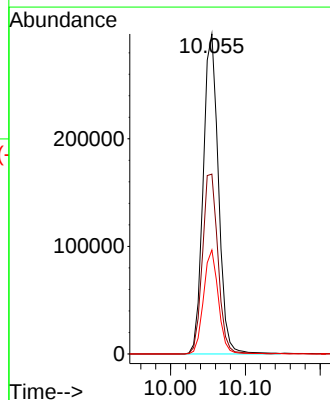
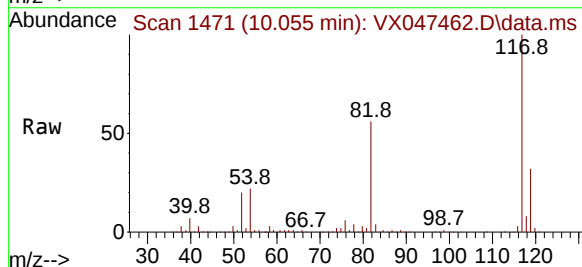
Instrument :
MSVOA_X
ClientSampleId :
MW-01-6.5-081325

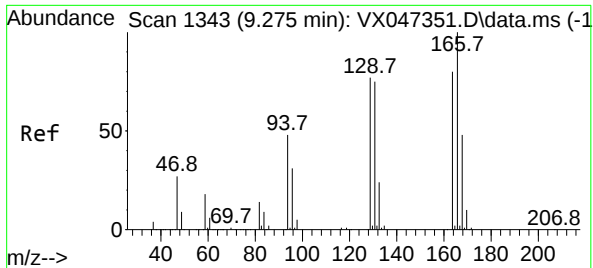
Tgt Ion: 95 Resp: 202612
Ion Ratio Lower Upper
95 100
174 73.5 0.0 148.0
176 70.5 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047462.D
Acq: 21 Aug 2025 12:22

Tgt Ion: 117 Resp: 421107
Ion Ratio Lower Upper
117 100
82 56.2 45.0 67.4
119 32.5 25.8 38.8





#64
Tetrachloroethene

Concen: 0.308 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047462.D

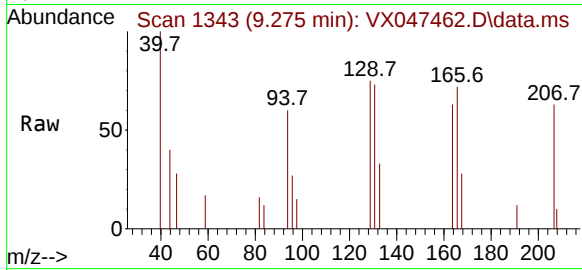
Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

MW-01-6.5-081325



Tgt Ion:164 Resp: 938

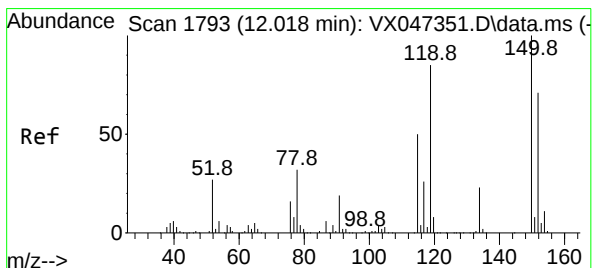
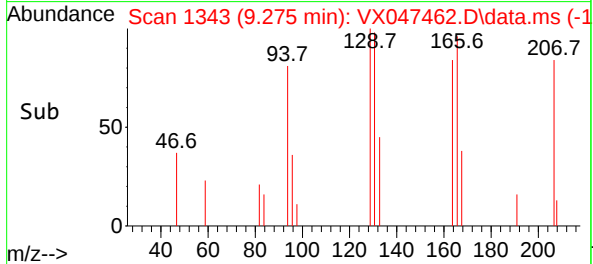
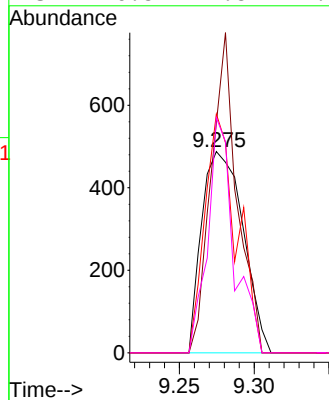
Ion Ratio Lower Upper

164 100

166 113.9 100.3 150.5

129 118.6 77.7 116.5#

131 116.8 74.8 112.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047462.D

Acq: 21 Aug 2025 12:22

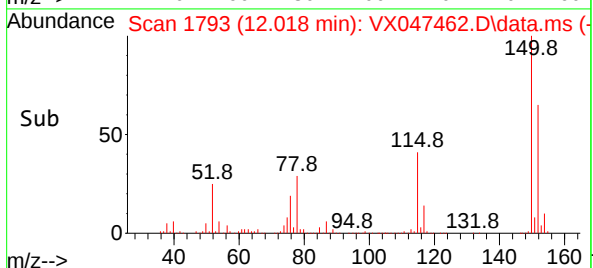
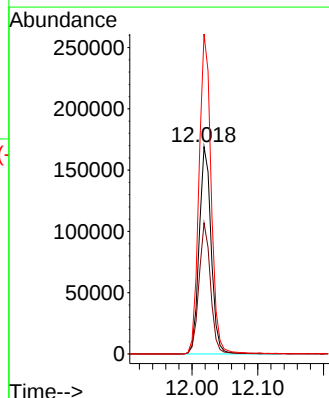
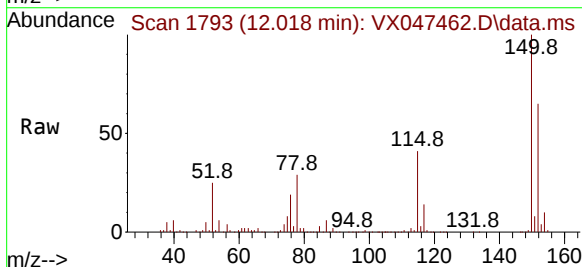
Tgt Ion:152 Resp: 214194

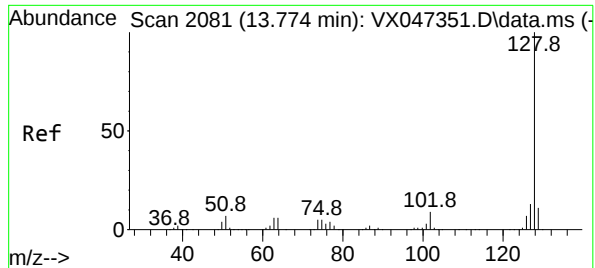
Ion Ratio Lower Upper

152 100

115 61.5 44.6 133.8

150 156.5 0.0 349.8





#95

Naphthalene

Concen: 0.458 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX047462.D

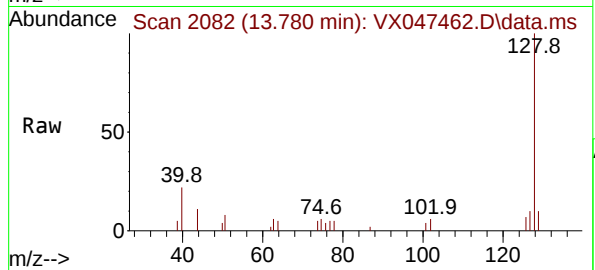
Acq: 21 Aug 2025 12:22

Instrument :

MSVOA_X

ClientSampleId :

MW-01-6.5-081325



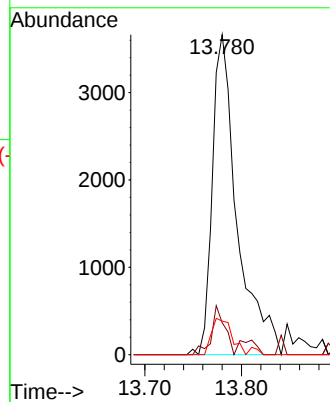
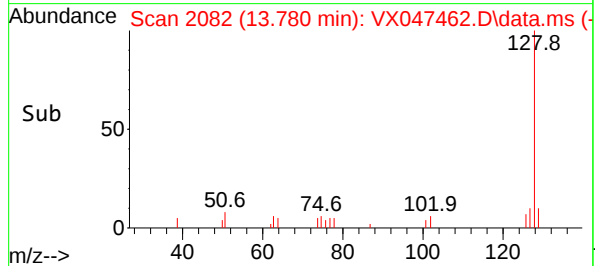
Tgt Ion:128 Resp: 6519

Ion Ratio Lower Upper

128 100

127 8.3 10.1 15.1#

129 10.0 8.7 13.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047460.D
 Acq On : 21 Aug 2025 11:39
 Operator : JC/MD
 Sample : Q2869-04 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-11A-13.5-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 22 03:42:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

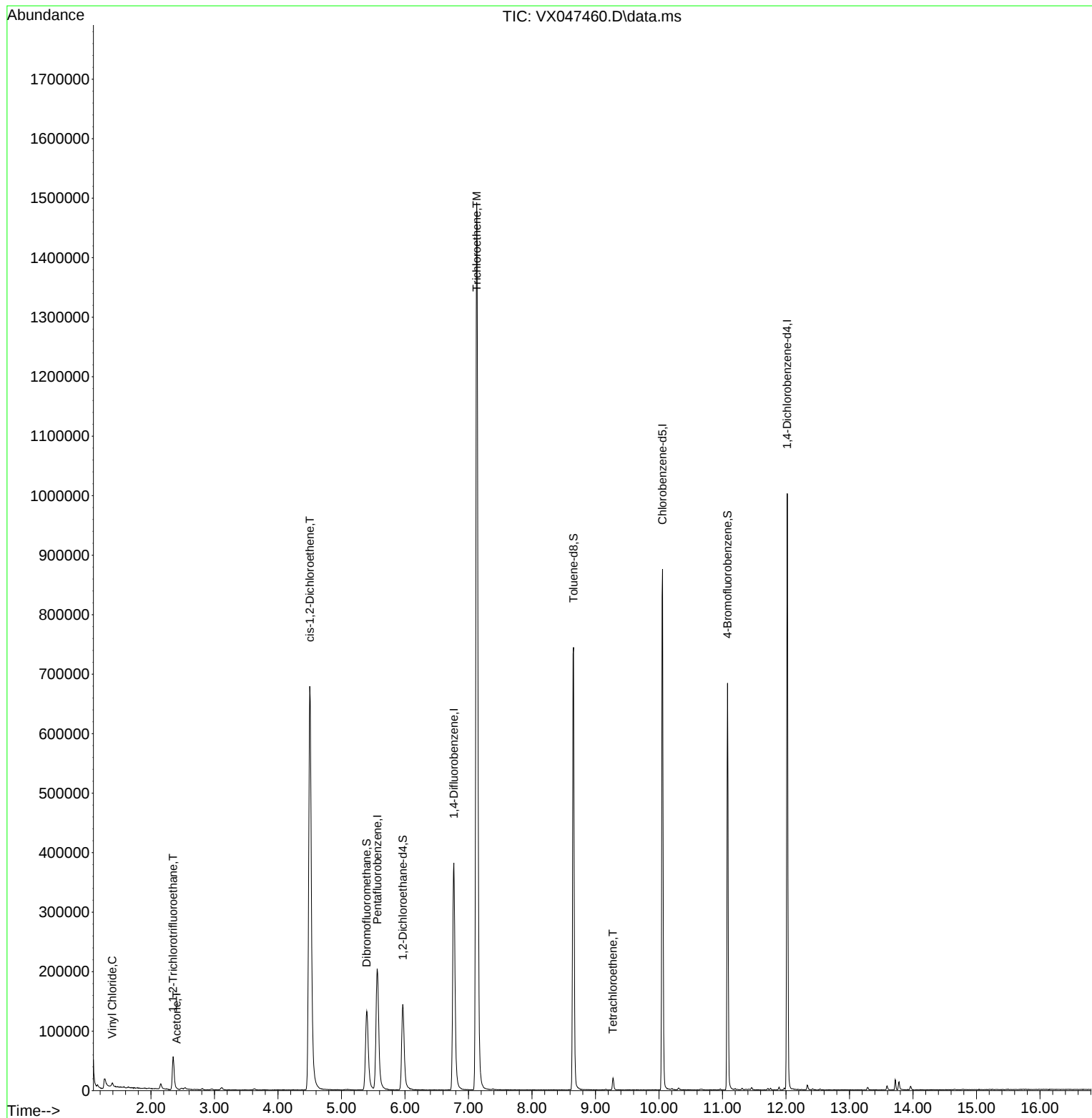
Internal Standards						
1) Pentafluorobenzene	5.562	168	209250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	413436	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	399927	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	194035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	152914	52.215	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 104.440%		
35) Dibromofluoromethane	5.397	113	128659	47.949	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 95.900%		
50) Toluene-d8	8.653	98	461732	48.144	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 96.280%		
62) 4-Bromofluorobenzene	11.079	95	188755	53.334	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 106.660%		
Target Compounds						
						Qvalue
4) Vinyl Chloride	1.392	62	3369	1.119	ug/l #	66
9) 1,1,2-Trichlorotrifluo...	2.349	101	23528	9.104	ug/l	98
16) Acetone	2.404	43	2290	2.080	ug/l #	86
27) cis-1,2-Dichloroethene	4.501	96	476083	146.176	ug/l	90
44) Trichloroethene	7.129	130	609435	187.731	ug/l	100
64) Tetrachloroethene	9.275	164	4063	1.405	ug/l #	84

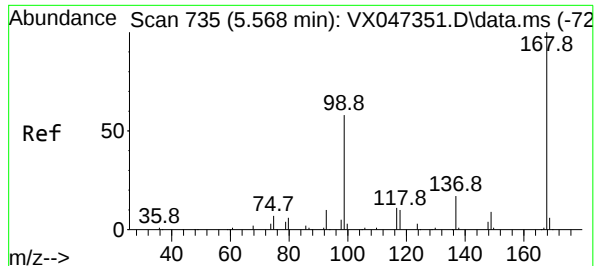
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047460.D
Acq On : 21 Aug 2025 11:39
Operator : JC/MD
Sample : Q2869-04 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325

Quant Time: Aug 22 03:42:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

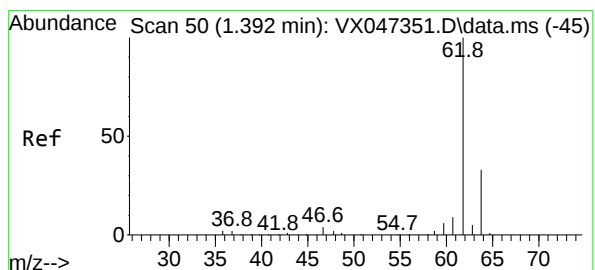
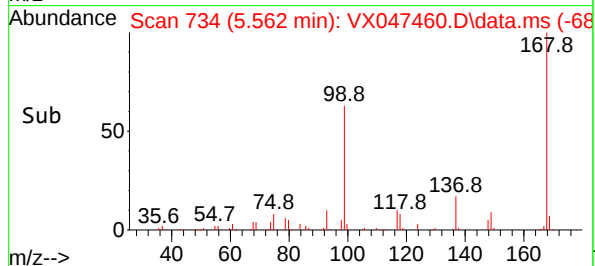
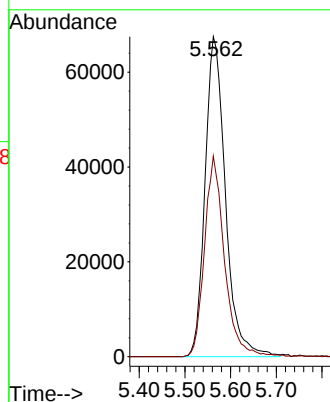
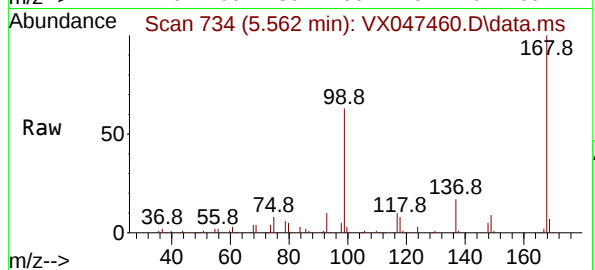
MW-11A-13.5-081325

Tgt Ion:168 Resp: 209250

Ion Ratio Lower Upper

168 100

99 62.7 47.9 71.9



#4

Vinyl Chloride

Concen: 1.119 ug/l

RT: 1.392 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047460.D

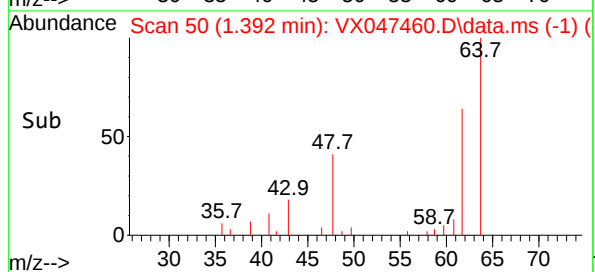
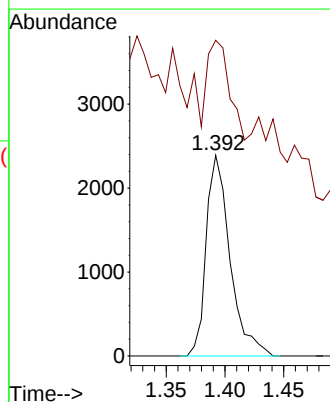
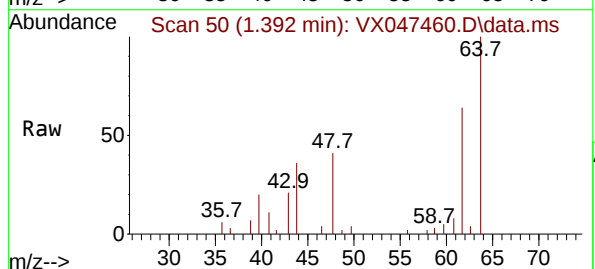
Acq: 21 Aug 2025 11:39

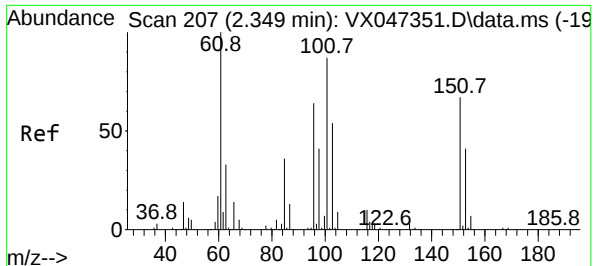
Tgt Ion: 62 Resp: 3369

Ion Ratio Lower Upper

62 100

64 52.3 26.5 39.7#

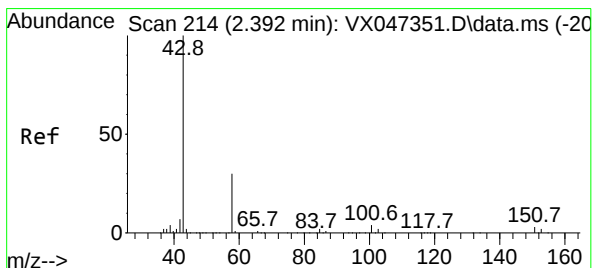
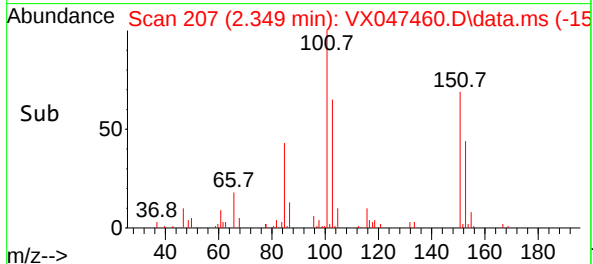
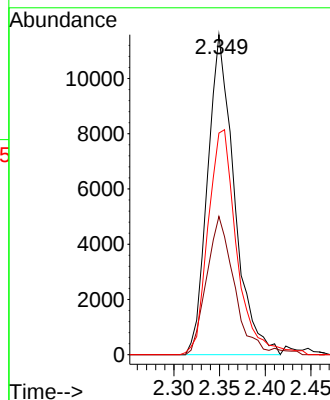
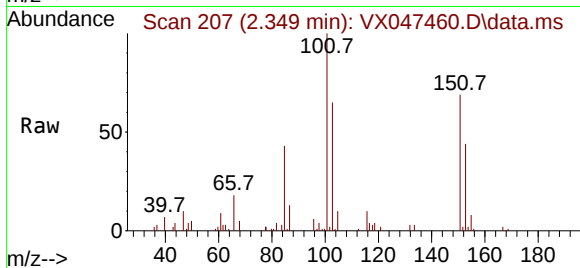




#9
1,1,2-Trichlorotrifluoroethane
Concen: 9.104 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

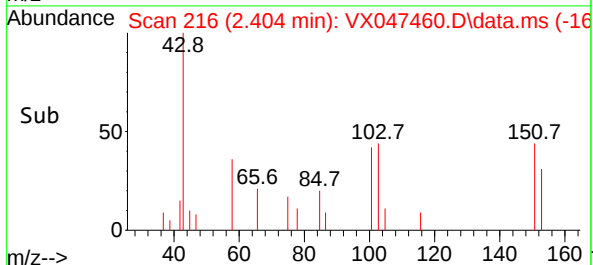
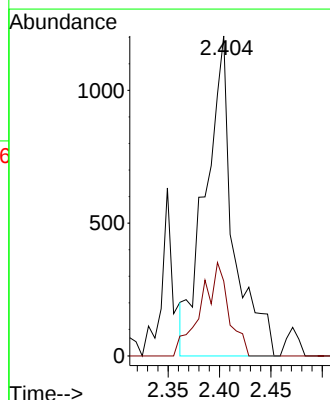
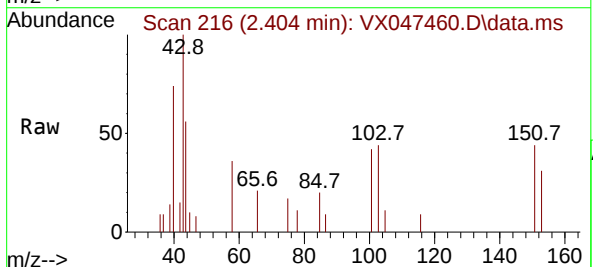
Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325

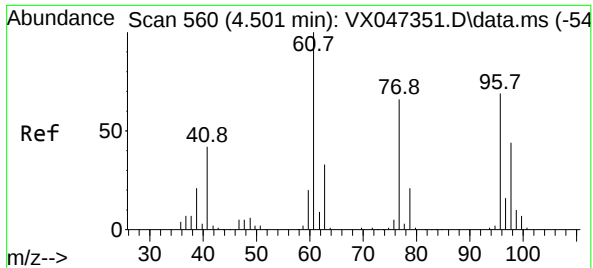
Tgt Ion:101 Resp: 23528
Ion Ratio Lower Upper
101 100
85 44.3 34.3 51.5
151 75.6 59.2 88.8



#16
Acetone
Concen: 2.080 ug/l
RT: 2.404 min Scan# 216
Delta R.T. 0.012 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion: 43 Resp: 2290
Ion Ratio Lower Upper
43 100
58 23.4 24.8 37.2#





#27

cis-1,2-Dichloroethene

Concen: 146.176 ug/l

RT: 4.501 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325

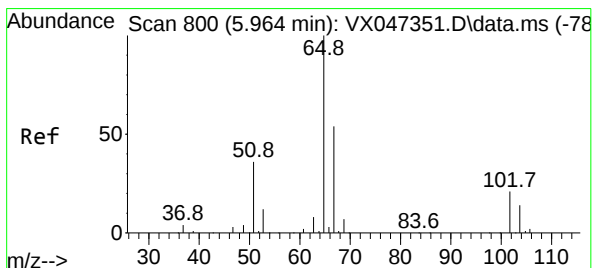
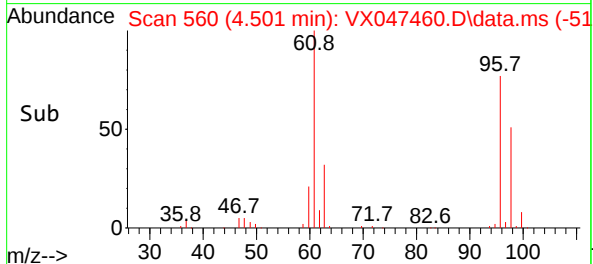
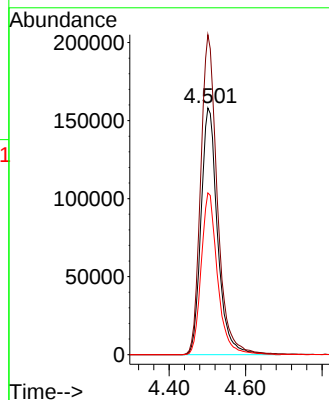
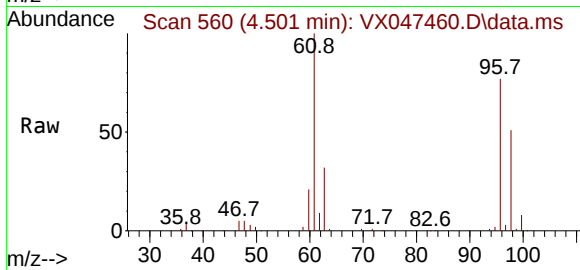
Tgt Ion: 96 Resp: 476083

Ion Ratio Lower Upper

96 100

61 130.2 0.0 296.6

98 64.6 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 52.215 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047460.D

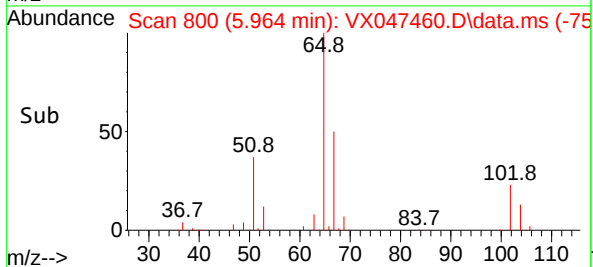
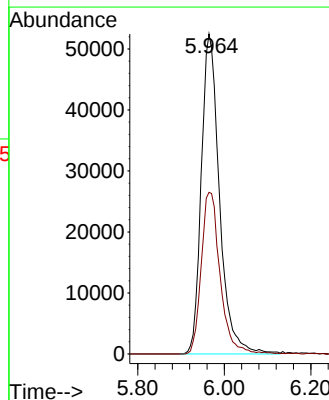
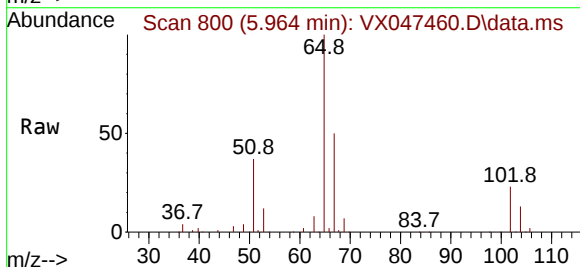
Acq: 21 Aug 2025 11:39

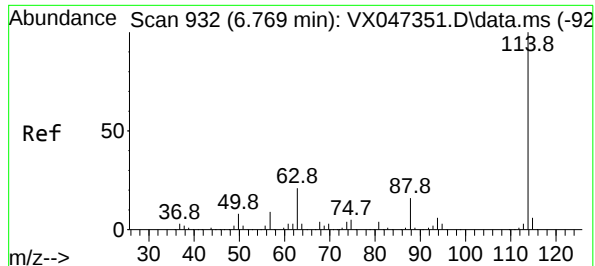
Tgt Ion: 65 Resp: 152914

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325

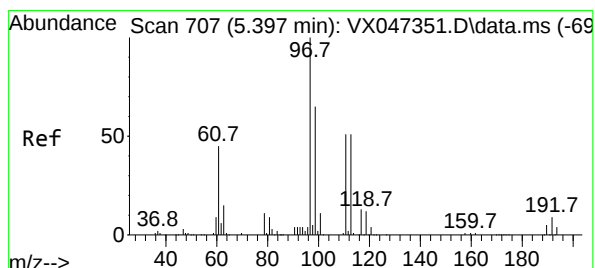
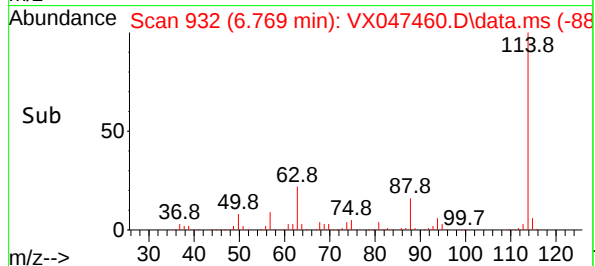
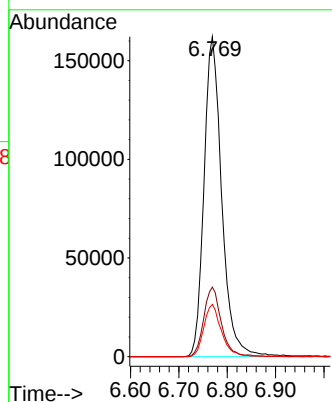
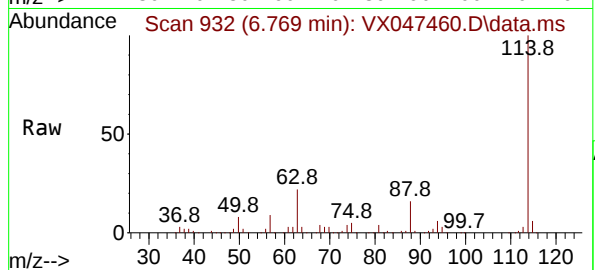
Tgt Ion:114 Resp: 413436

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.4

88 16.4 0.0 33.0



#35

Dibromofluoromethane

Concen: 47.949 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

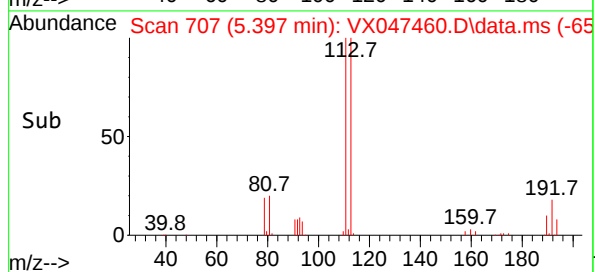
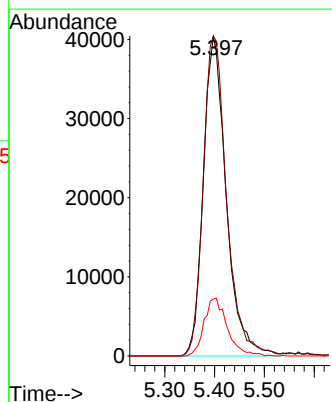
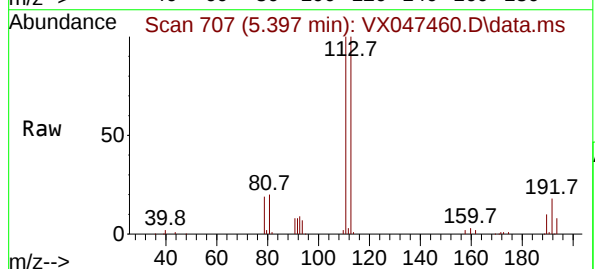
Tgt Ion:113 Resp: 128659

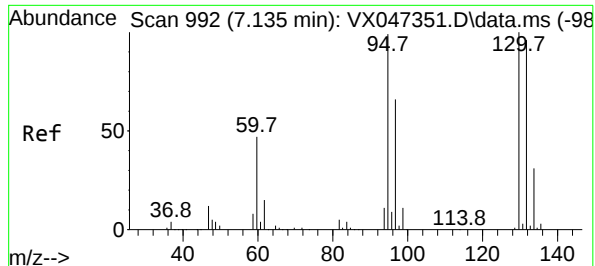
Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.2

192 18.3 14.1 21.1





#44

Trichloroethene

Concen: 187.731 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

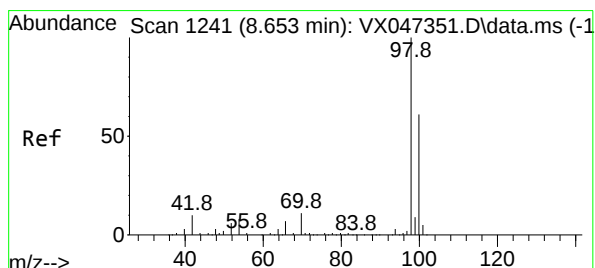
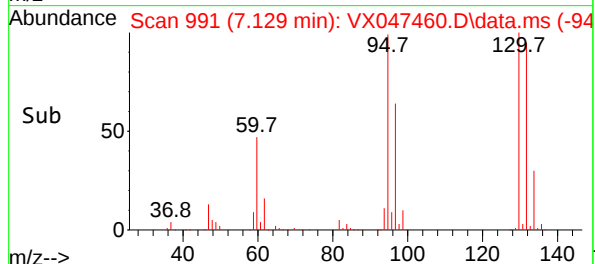
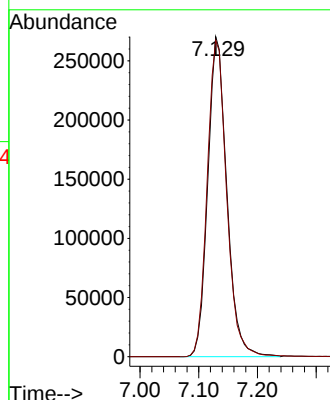
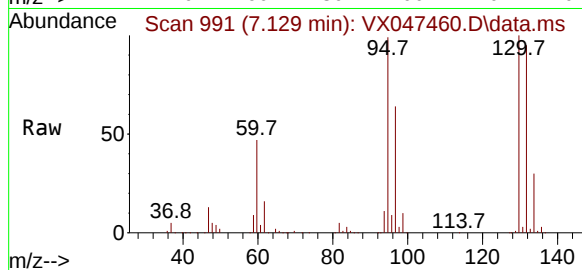
MW-11A-13.5-081325

Tgt Ion:130 Resp: 609435

Ion Ratio Lower Upper

130 100

95 98.8 0.0 198.6



#50

Toluene-d8

Concen: 48.144 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047460.D

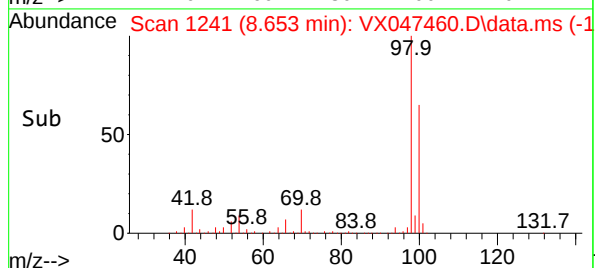
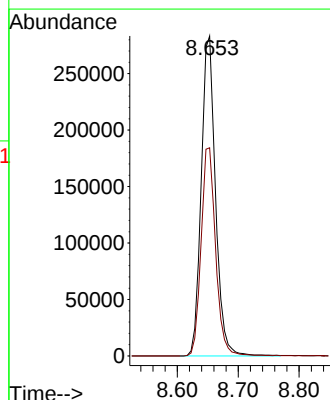
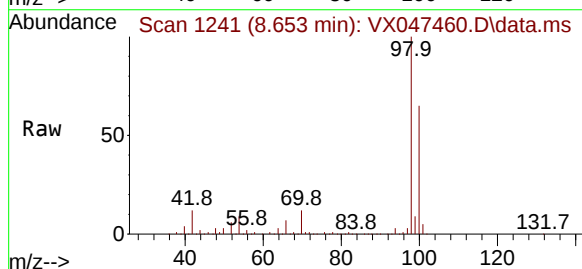
Acq: 21 Aug 2025 11:39

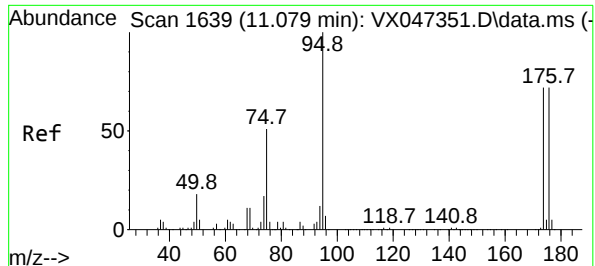
Tgt Ion: 98 Resp: 461732

Ion Ratio Lower Upper

98 100

100 66.2 53.9 80.9

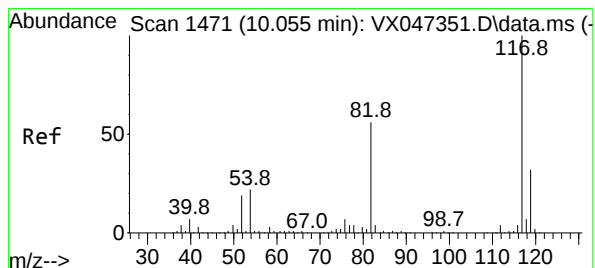
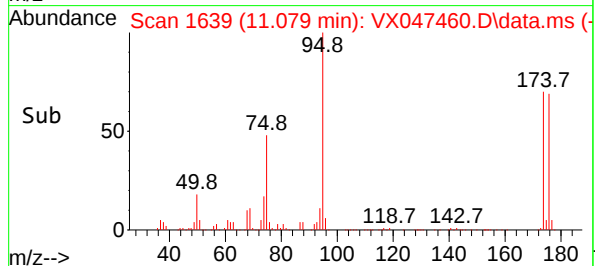
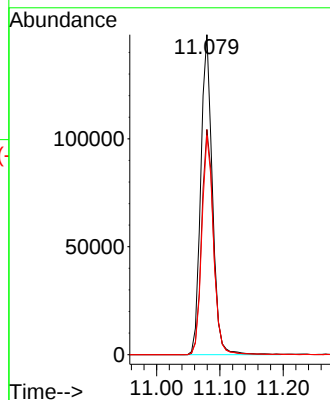
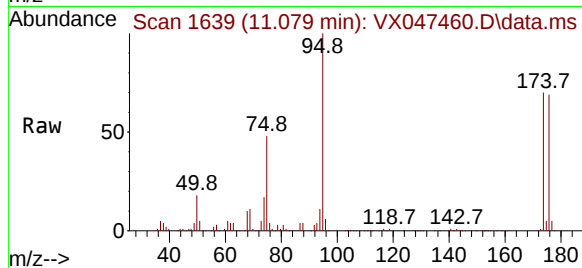




#62
4-Bromofluorobenzene
Concen: 53.334 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

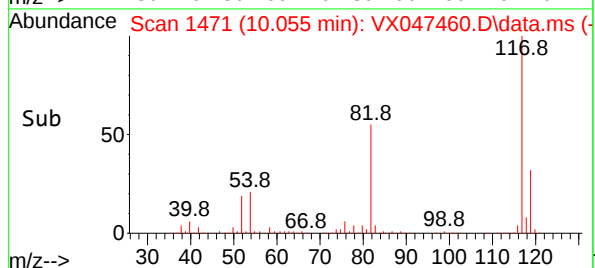
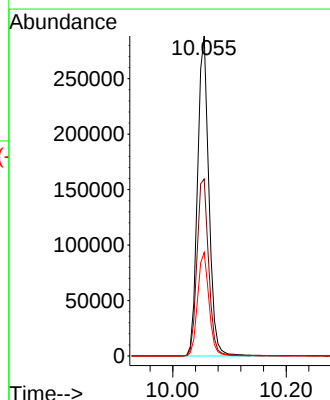
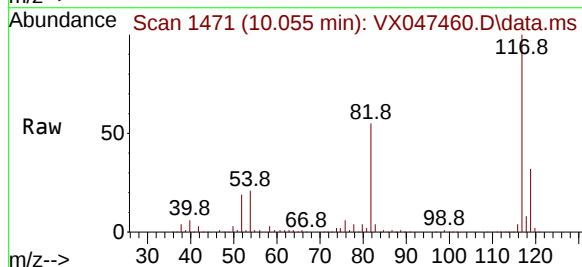
Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325

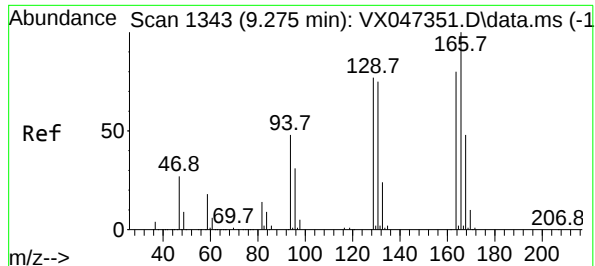
Tgt Ion: 95 Resp: 188755
Ion Ratio Lower Upper
95 100
174 72.0 0.0 148.0
176 69.1 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047460.D
Acq: 21 Aug 2025 11:39

Tgt Ion: 117 Resp: 399927
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 32.3 25.8 38.8





#64

Tetrachloroethene

Concen: 1.405 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325

Tgt Ion:164 Resp: 4063

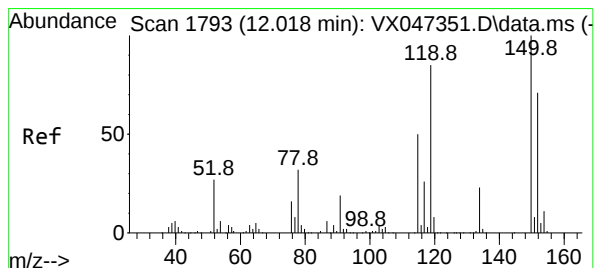
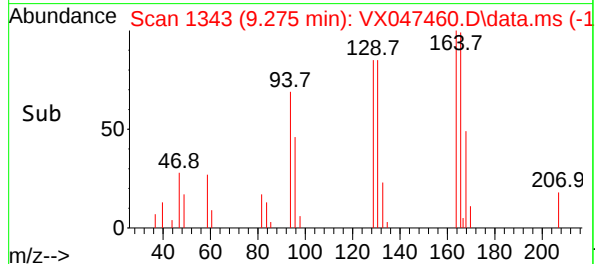
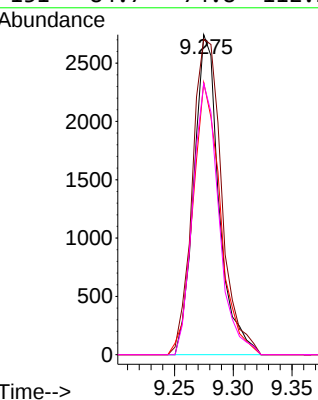
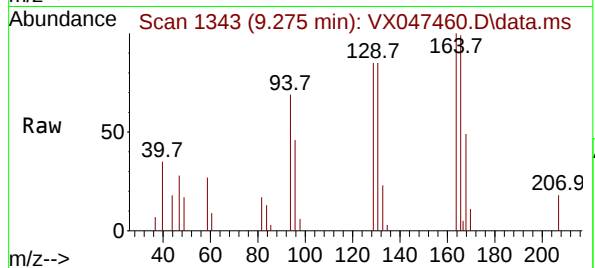
Ion Ratio Lower Upper

164 100

166 98.5 100.3 150.5#

129 85.1 77.7 116.5

131 84.7 74.8 112.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047460.D

Acq: 21 Aug 2025 11:39

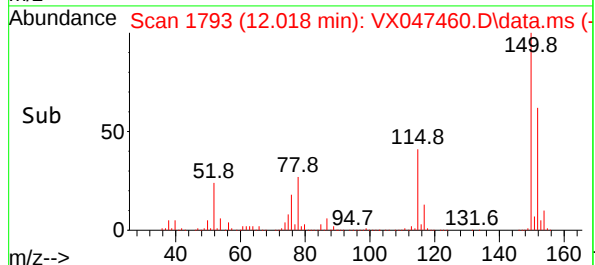
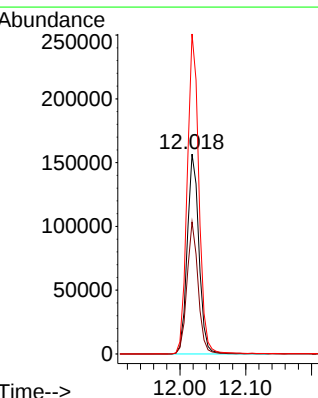
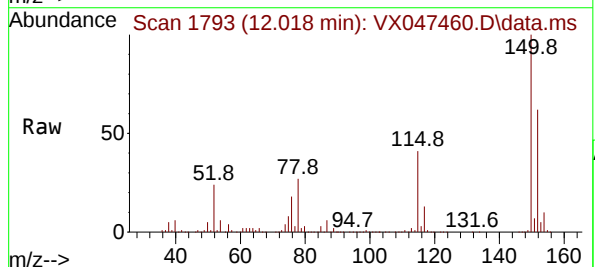
Tgt Ion:152 Resp: 194035

Ion Ratio Lower Upper

152 100

115 62.7 44.6 133.8

150 159.8 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047468.D
 Acq On : 21 Aug 2025 14:28
 Operator : JC/MD
 Sample : Q2869-04DL 20X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-11A-13.5-081325DL

Quant Time: Aug 22 03:47:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

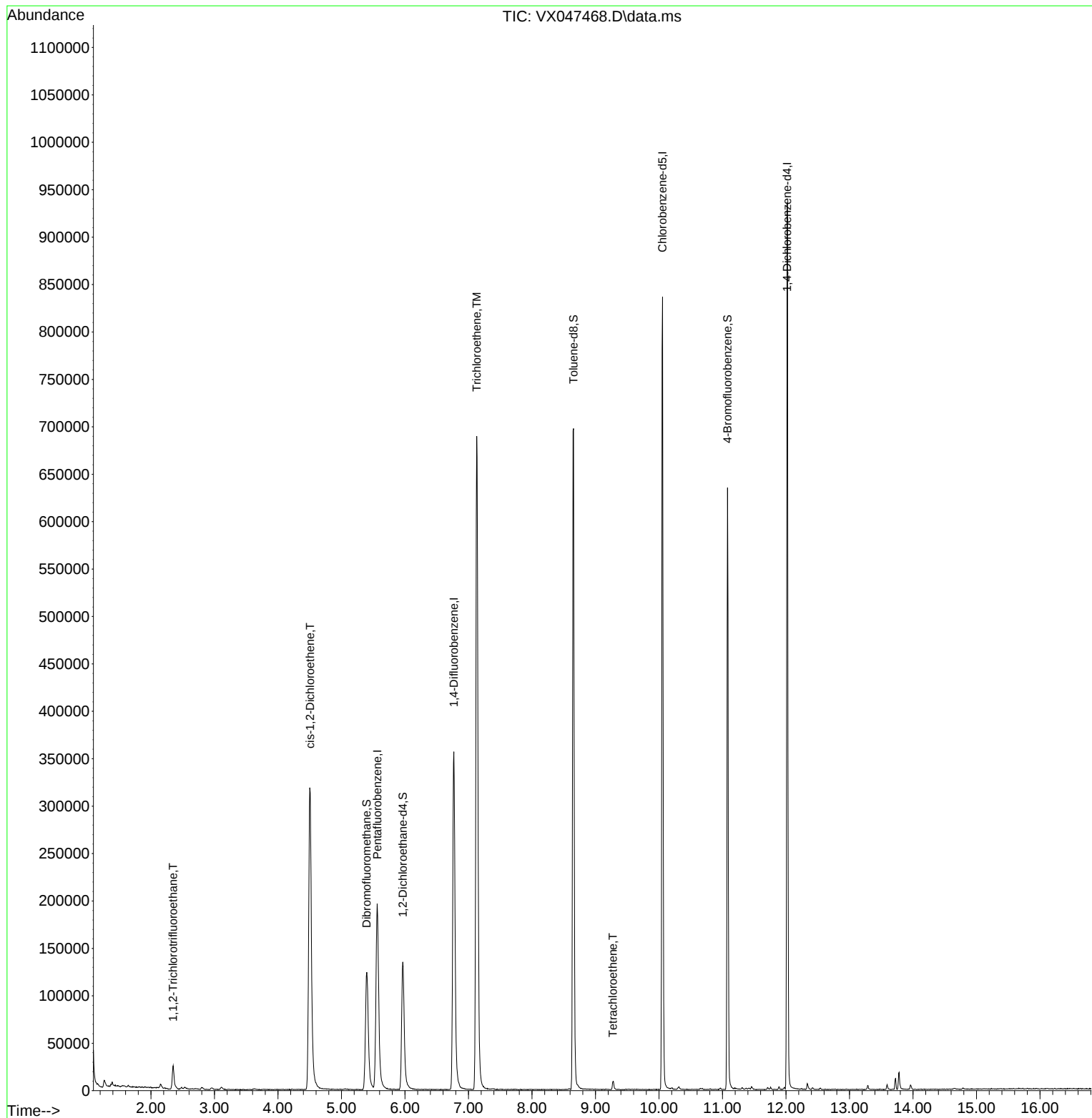
Internal Standards						
1) Pentafluorobenzene	5.562	168	195089	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	386665	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	376333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	185836	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	145202	53.181	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.360%	
35) Dibromofluoromethane	5.397	113	121502	48.417	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.840%	
50) Toluene-d8	8.653	98	434529	48.445	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.880%	
62) 4-Bromofluorobenzene	11.079	95	175623	53.059	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.120%	
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.349	101	10607	4.402	ug/l	96
27) cis-1,2-Dichloroethene	4.507	96	227423	74.896	ug/l	89
44) Trichloroethene	7.129	130	286321	94.305	ug/l	99
64) Tetrachloroethene	9.275	164	1793	0.659	ug/l	95

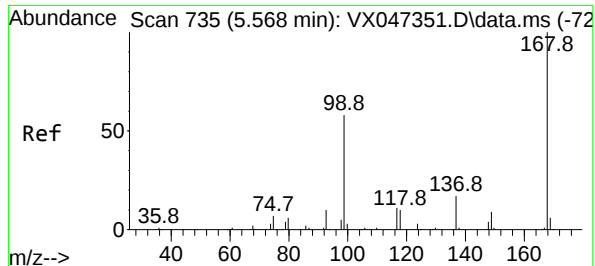
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047468.D
Acq On : 21 Aug 2025 14:28
Operator : JC/MD
Sample : Q2869-04DL 20X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325DL

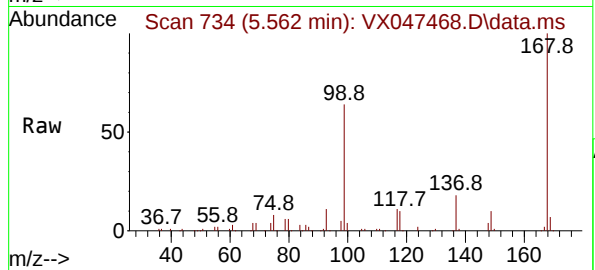
Quant Time: Aug 22 03:47:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



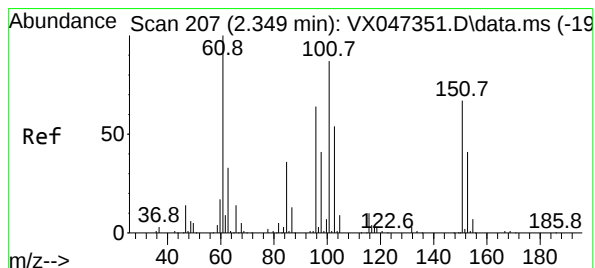
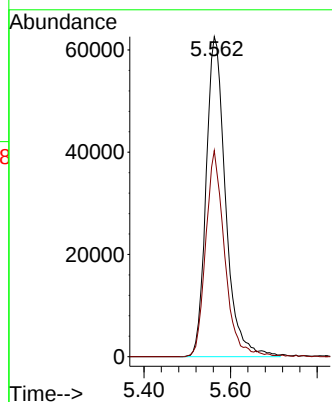
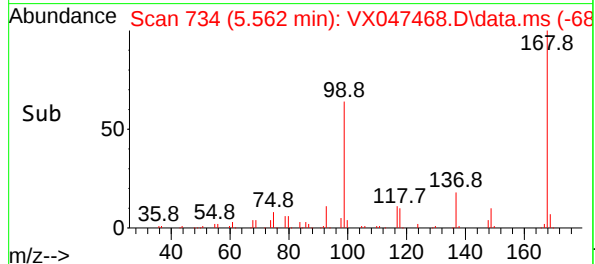


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325DL

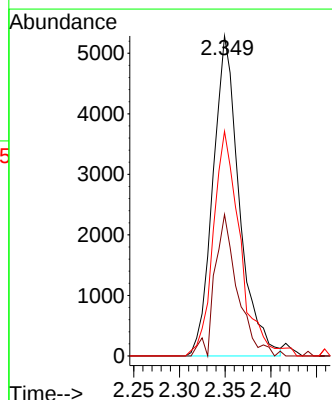
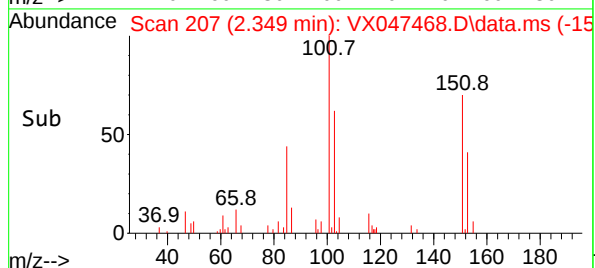
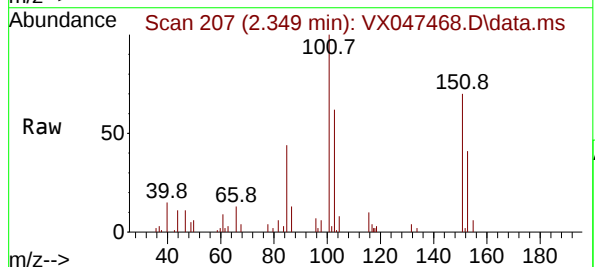


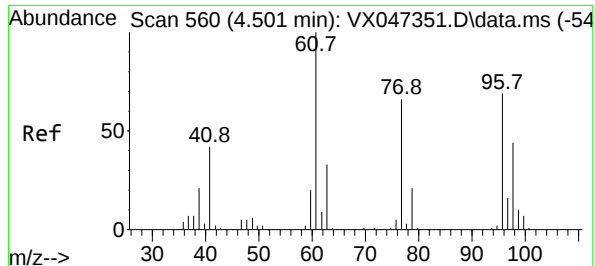
Tgt Ion:168 Resp: 195089
Ion Ratio Lower Upper
168 100
99 64.4 47.9 71.9



#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.402 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

Tgt Ion:101 Resp: 10607
Ion Ratio Lower Upper
101 100
85 38.5 34.3 51.5
151 71.8 59.2 88.8





#27

cis-1,2-Dichloroethene

Concen: 74.896 ug/l

RT: 4.507 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047468.D

Acq: 21 Aug 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325DL

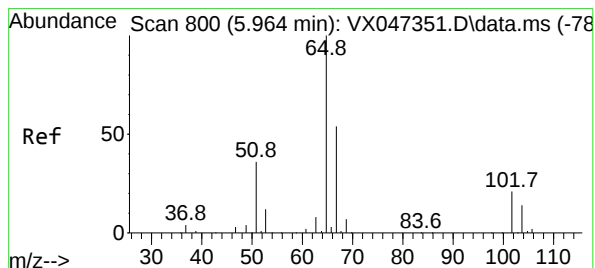
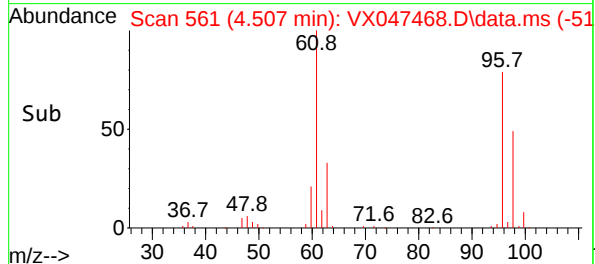
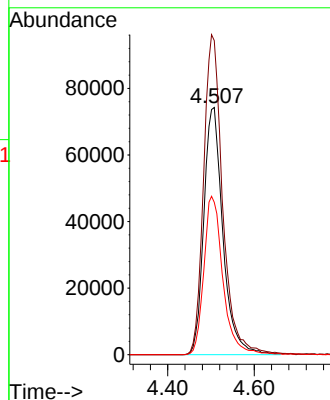
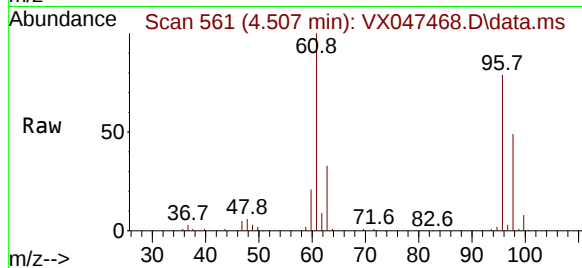
Tgt Ion: 96 Resp: 227423

Ion Ratio Lower Upper

96 100

61 129.5 0.0 296.6

98 64.0 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 53.181 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047468.D

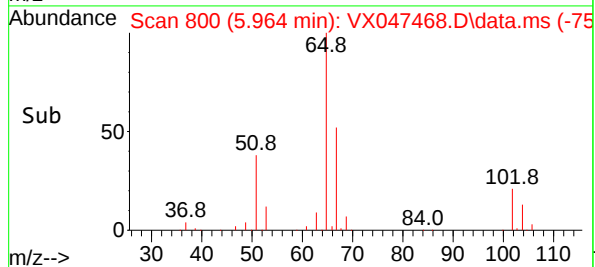
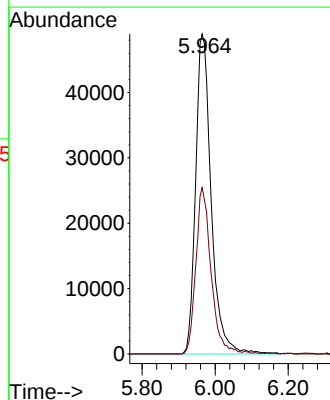
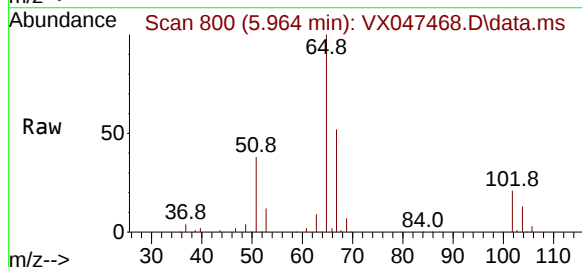
Acq: 21 Aug 2025 14:28

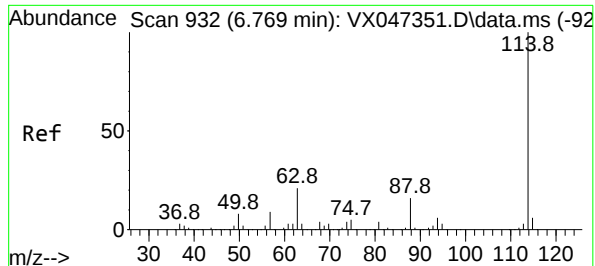
Tgt Ion: 65 Resp: 145202

Ion Ratio Lower Upper

65 100

67 50.6 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047468.D

Acq: 21 Aug 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325DL

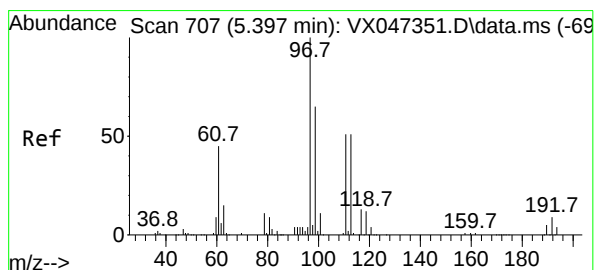
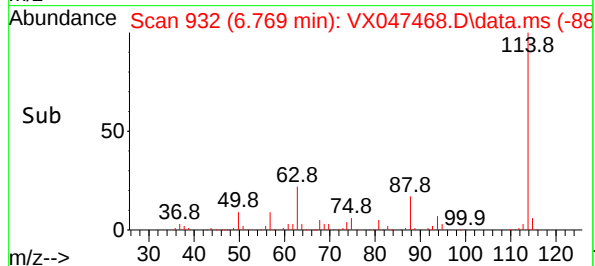
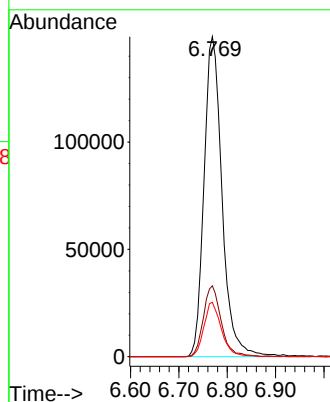
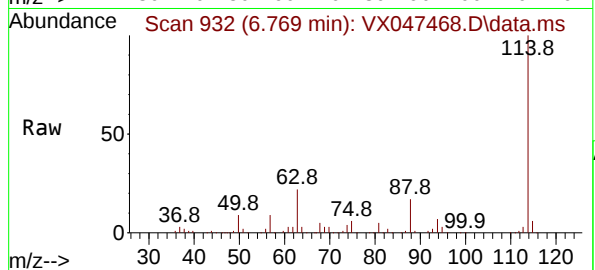
Tgt Ion:114 Resp: 386665

Ion Ratio Lower Upper

114 100

63 22.1 0.0 42.4

88 17.0 0.0 33.0



#35

Dibromofluoromethane

Concen: 48.417 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047468.D

Acq: 21 Aug 2025 14:28

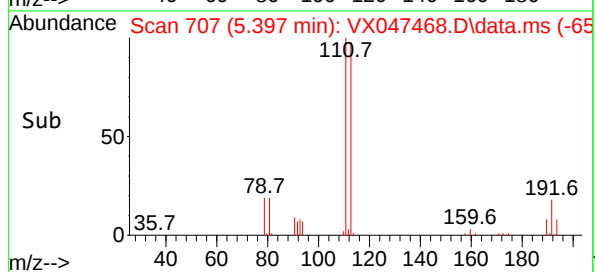
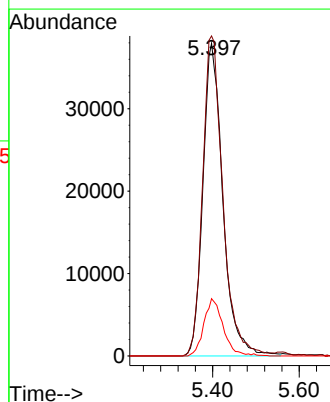
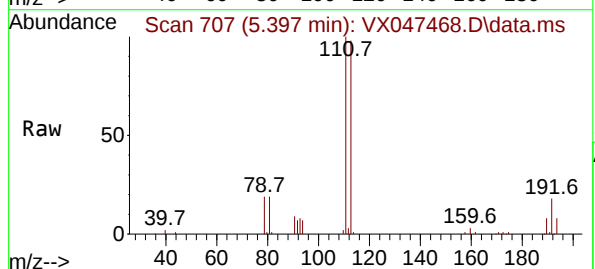
Tgt Ion:113 Resp: 121502

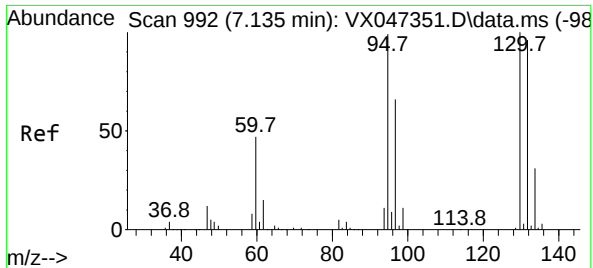
Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.2

192 17.8 14.1 21.1

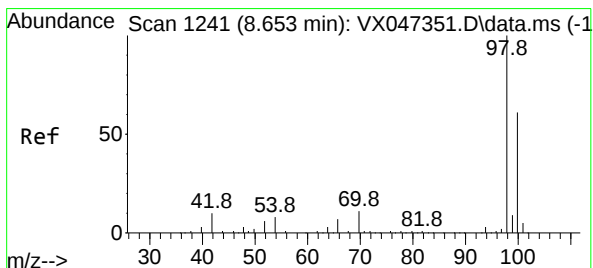
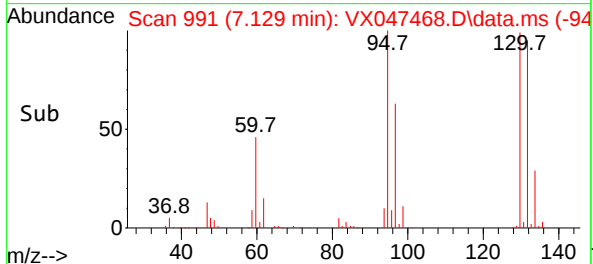
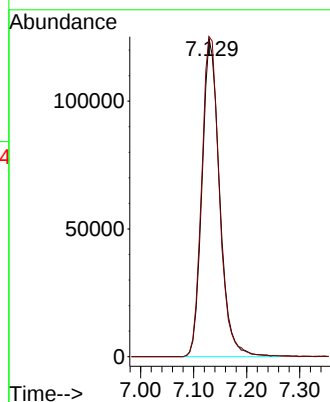
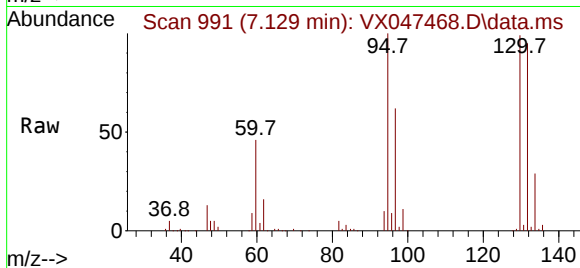




#44
Trichloroethene
Concen: 94.305 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

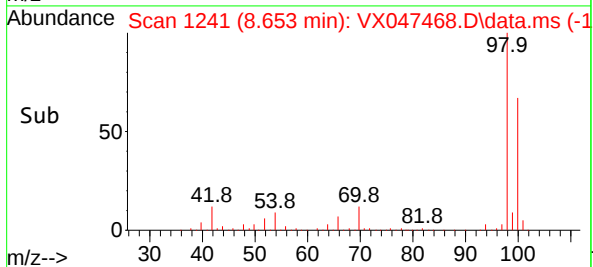
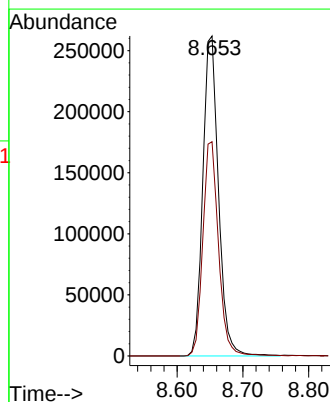
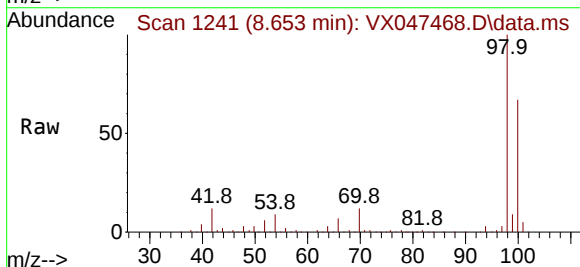
Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325DL

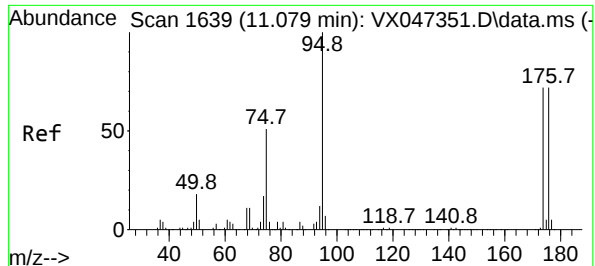
Tgt Ion:130 Resp: 286321
Ion Ratio Lower Upper
130 100
95 100.7 0.0 198.6



#50
Toluene-d8
Concen: 48.445 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

Tgt Ion: 98 Resp: 434529
Ion Ratio Lower Upper
98 100
100 67.0 53.9 80.9

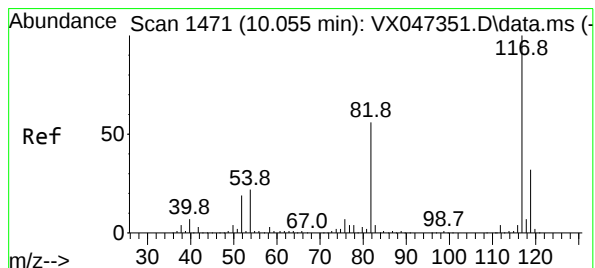
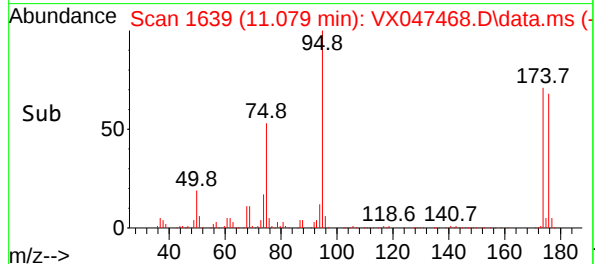
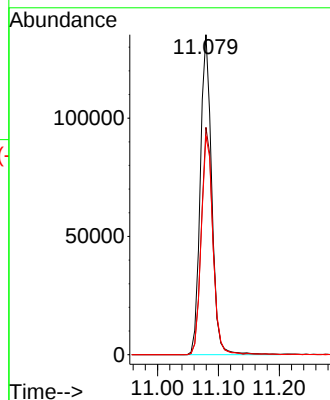
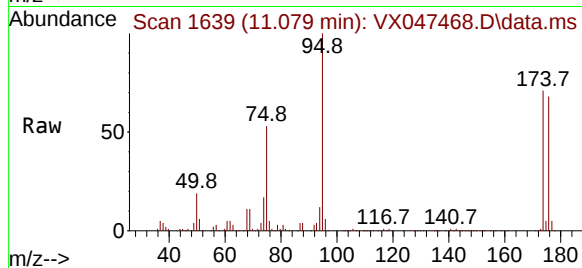




#62
4-Bromofluorobenzene
Concen: 53.059 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

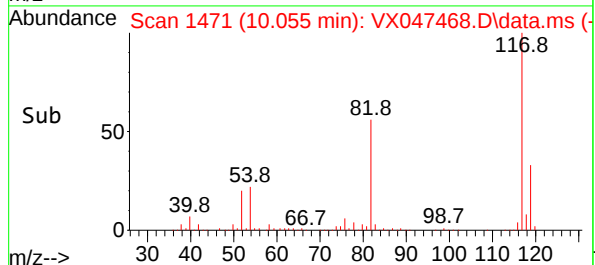
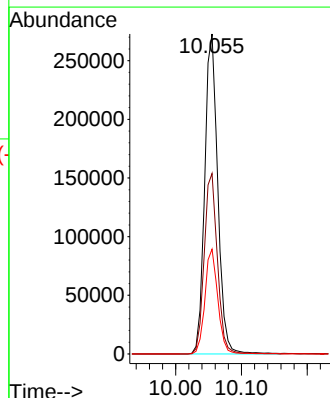
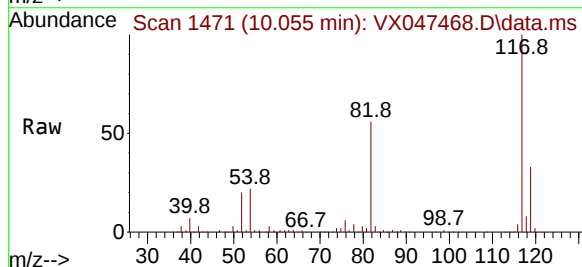
Instrument :
MSVOA_X
ClientSampleId :
MW-11A-13.5-081325DL

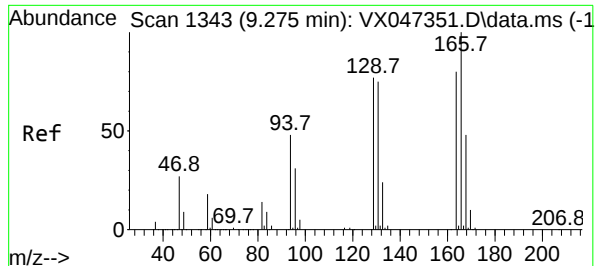
Tgt Ion: 95 Resp: 175623
Ion Ratio Lower Upper
95 100
174 72.3 0.0 148.0
176 70.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047468.D
Acq: 21 Aug 2025 14:28

Tgt Ion: 117 Resp: 376333
Ion Ratio Lower Upper
117 100
82 56.4 45.0 67.4
119 32.7 25.8 38.8





#64

Tetrachloroethene

Concen: 0.659 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047468.D

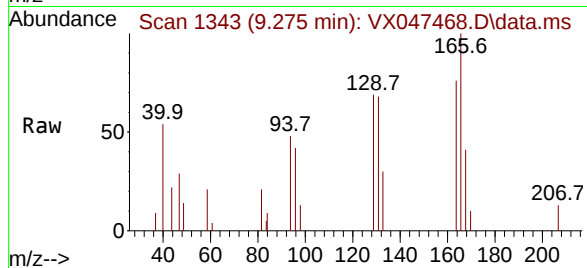
Acq: 21 Aug 2025 14:28

Instrument :

MSVOA_X

ClientSampleId :

MW-11A-13.5-081325DL



Tgt Ion:164 Resp: 1793

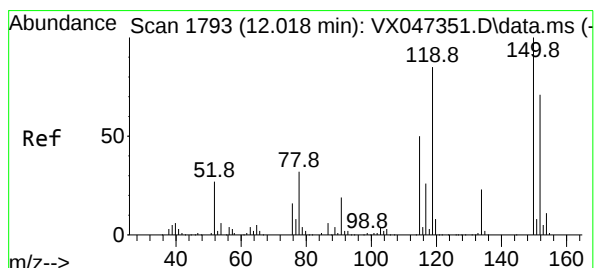
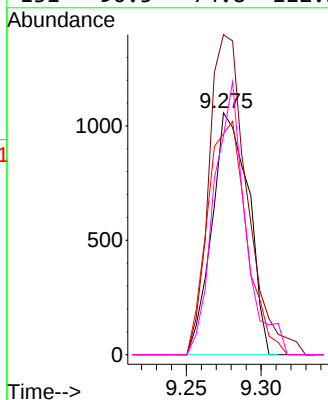
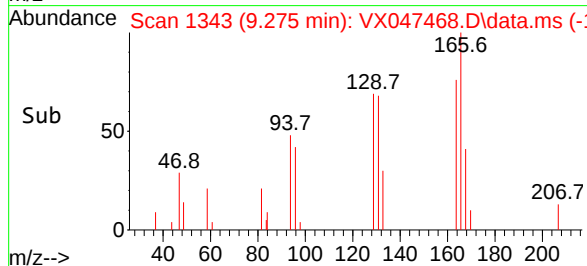
Ion Ratio Lower Upper

164 100

166 132.4 100.3 150.5

129 91.4 77.7 116.5

131 90.5 74.8 112.2



#72

1,4-Dichlorobenzene-d4

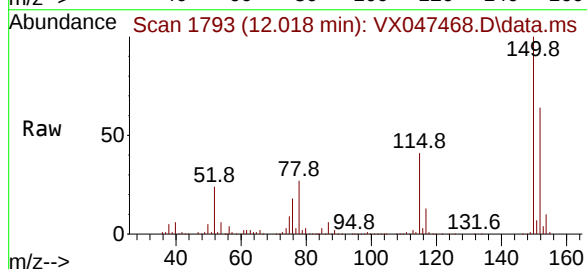
Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047468.D

Acq: 21 Aug 2025 14:28



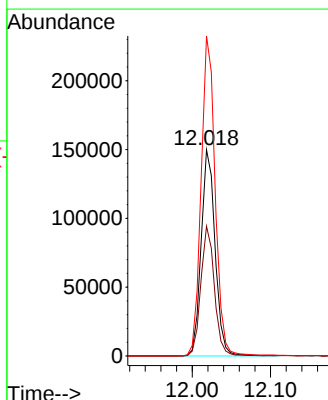
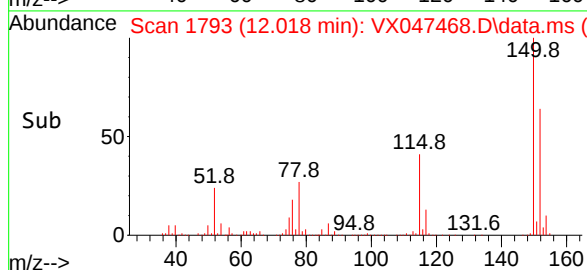
Tgt Ion:152 Resp: 185836

Ion Ratio Lower Upper

152 100

115 61.2 44.6 133.8

150 155.6 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047461.D
 Acq On : 21 Aug 2025 12:00
 Operator : JC/MD
 Sample : Q2869-05 40X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-19B-71.5-081325-FD

Quant Time: Aug 22 03:42:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

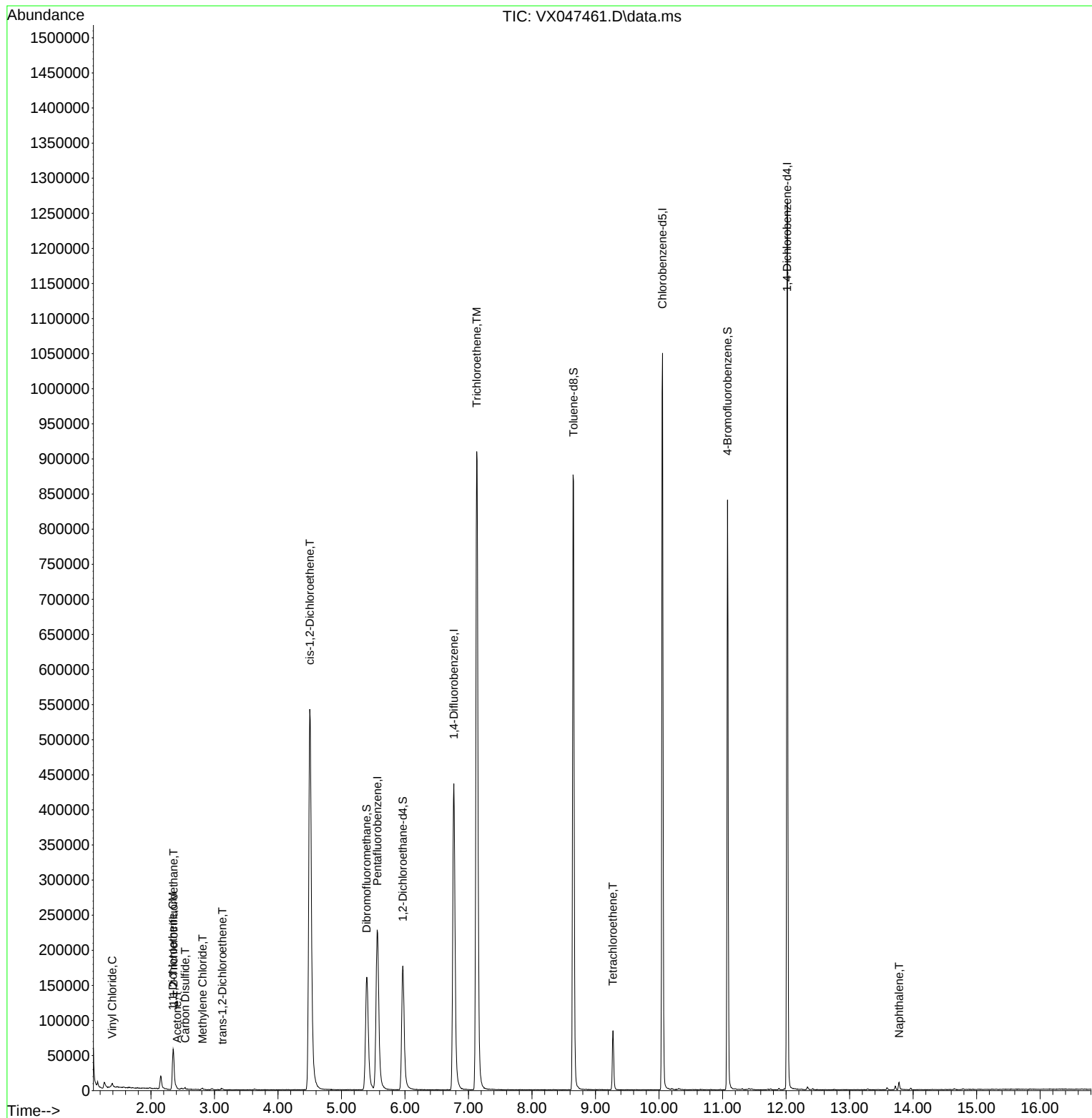
Internal Standards						
1) Pentafluorobenzene	5.562	168	234783	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	477817	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	477729	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	247621	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	186685	56.815	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	=	113.620%	
35) Dibromofluoromethane	5.397	113	153944	49.642	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.280%	
50) Toluene-d8	8.653	98	544241	49.101	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	=	98.200%	
62) 4-Bromofluorobenzene	11.079	95	227719	55.674	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	=	111.340%	
Target Compounds						
					Qvalue	
4) Vinyl Chloride	1.392	62	2490	0.737	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.355	101	25101	8.657	ug/l	99
12) 1,1-Dichloroethene	2.343	96	2040	0.690	ug/l #	84
16) Acetone	2.410	43	2583	2.091	ug/l	98
17) Carbon Disulfide	2.538	76	2354	0.264	ug/l #	75
20) Methylene Chloride	2.812	84	978	0.299	ug/l #	87
21) trans-1,2-Dichloroethene	3.123	96	846	0.270	ug/l #	42
27) cis-1,2-Dichloroethene	4.501	96	383526	104.951	ug/l	88
44) Trichloroethene	7.129	130	380783	101.492	ug/l	100
64) Tetrachloroethene	9.275	164	15750	4.558	ug/l	87
95) Naphthalene	13.780	128	7720	0.470	ug/l	98

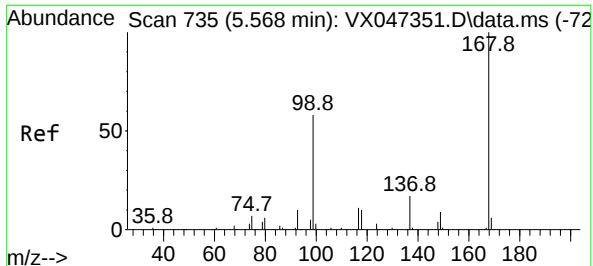
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047461.D
Acq On : 21 Aug 2025 12:00
Operator : JC/MD
Sample : Q2869-05 40X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325-FD

Quant Time: Aug 22 03:42:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

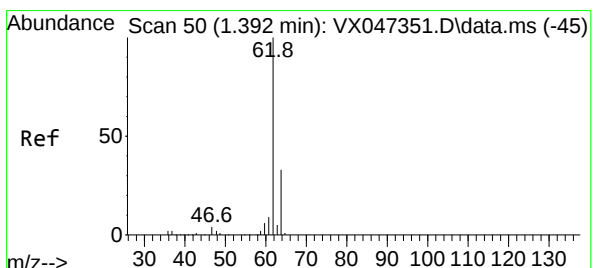
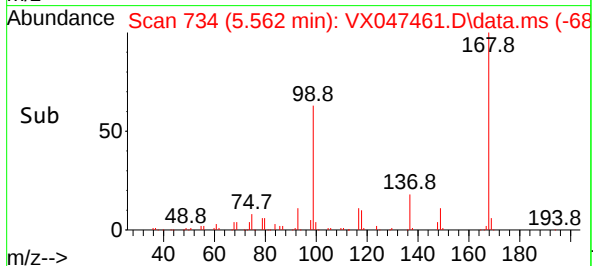
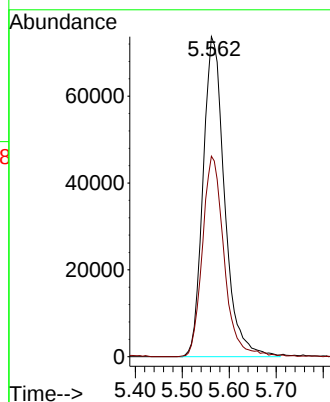
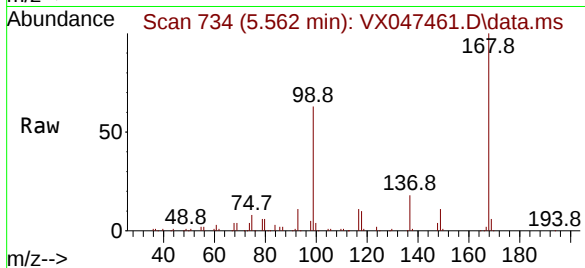




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

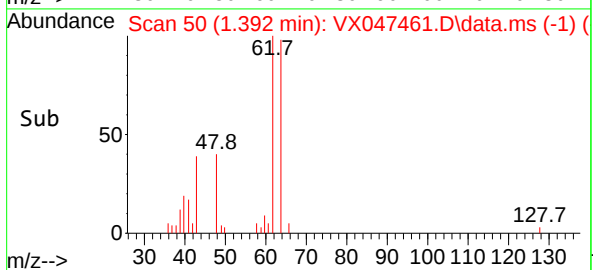
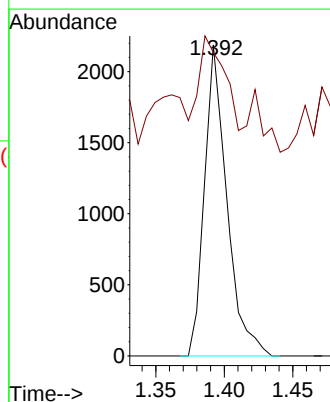
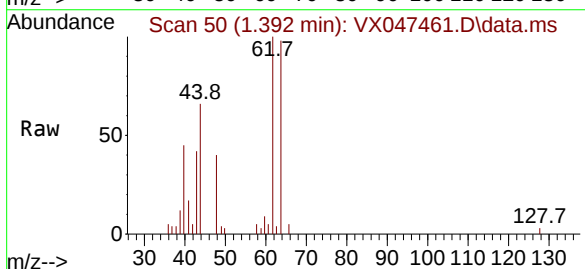
Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325-FD

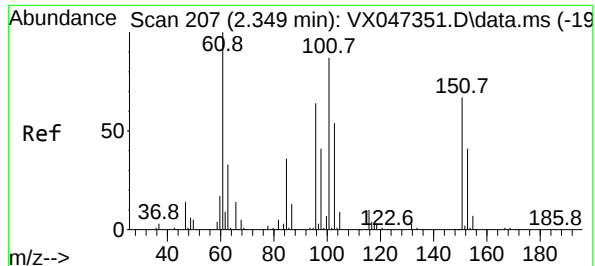
Tgt Ion:168 Resp: 234783
Ion Ratio Lower Upper
168 100
99 62.5 47.9 71.9



#4
Vinyl Chloride
Concen: 0.737 ug/l
RT: 1.392 min Scan# 50
Delta R.T. 0.000 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

Tgt Ion: 62 Resp: 2490
Ion Ratio Lower Upper
62 100
64 31.0 26.5 39.7

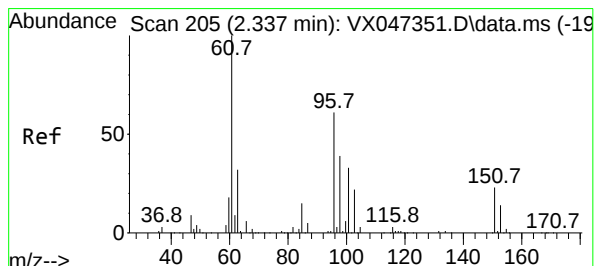
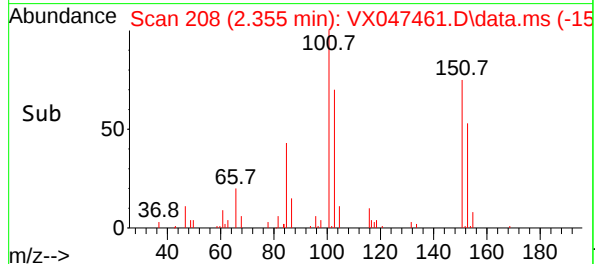
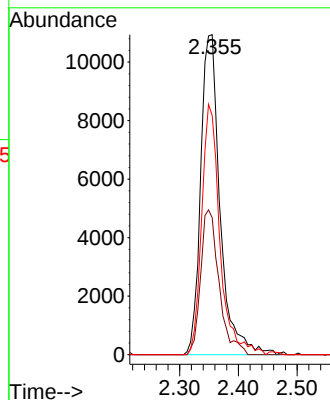
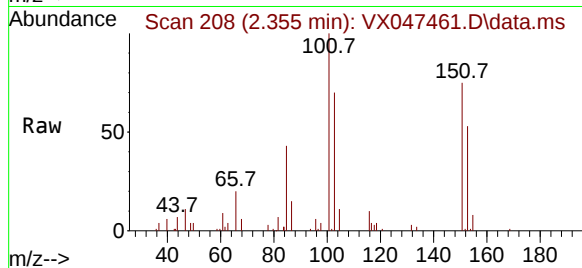




#9
1,1,2-Trichlorotrifluoroethane
Concen: 8.657 ug/l
RT: 2.355 min Scan# 207
Delta R.T. 0.006 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

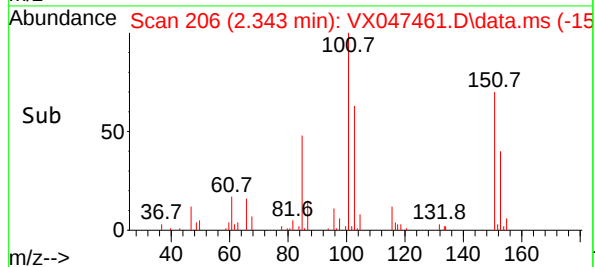
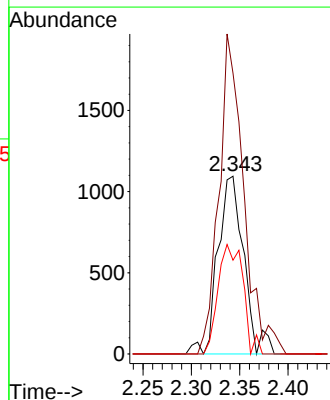
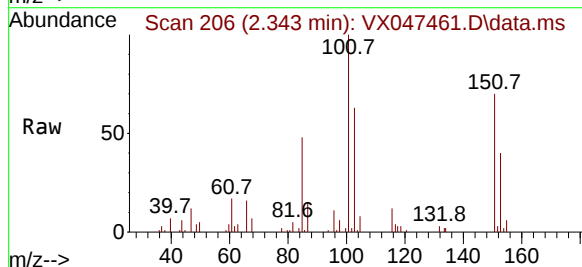
Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325-FD

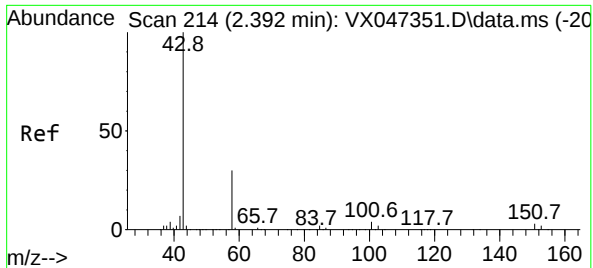
Tgt Ion	Ratio	Lower	Upper
101	100		
85	42.9	34.3	51.5
151	73.2	59.2	88.8



#12
1,1-Dichloroethene
Concen: 0.690 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.4	132.2	198.2
98	48.6	51.2	76.8

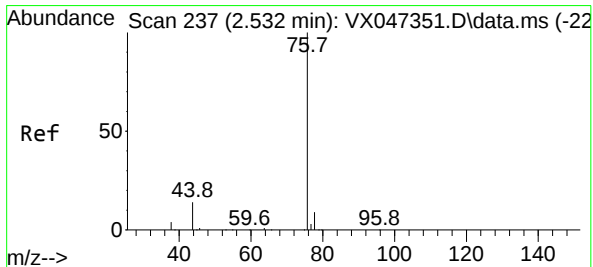
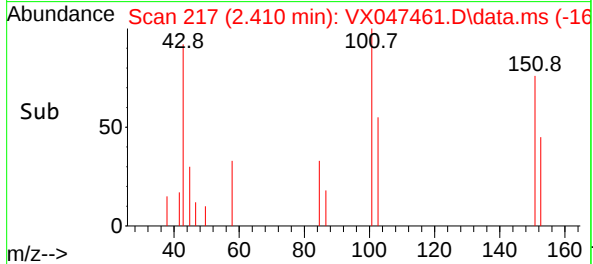
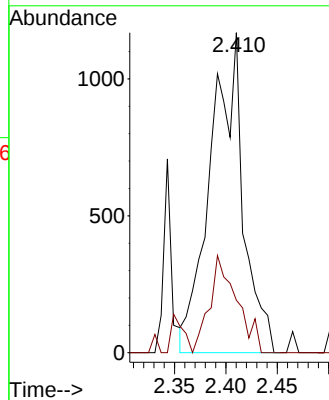
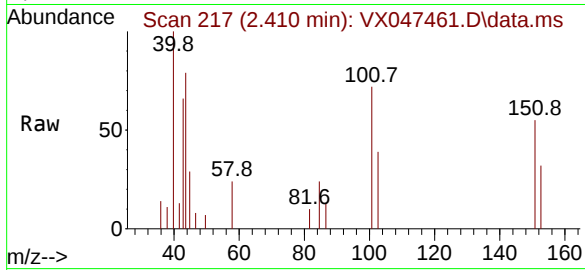




#16
Acetone
Concen: 2.091 ug/l
RT: 2.410 min Scan# 214
Delta R.T. 0.018 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

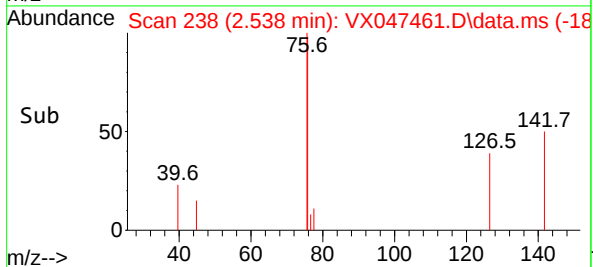
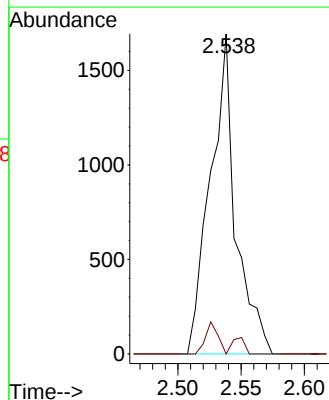
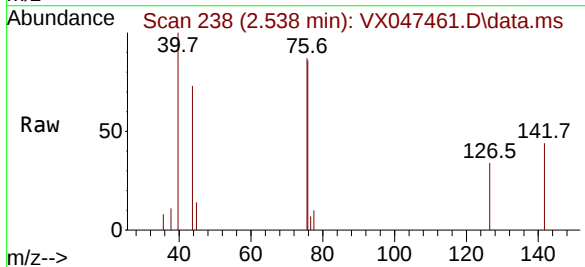
Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325-FD

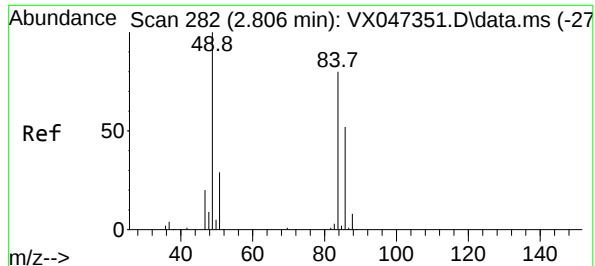
Tgt Ion: 43 Resp: 2583
Ion Ratio Lower Upper
43 100
58 31.8 24.8 37.2



#17
Carbon Disulfide
Concen: 0.264 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.006 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

Tgt Ion: 76 Resp: 2354
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#





#20

Methylene Chloride

Concen: 0.299 ug/l

RT: 2.812 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX047461.D

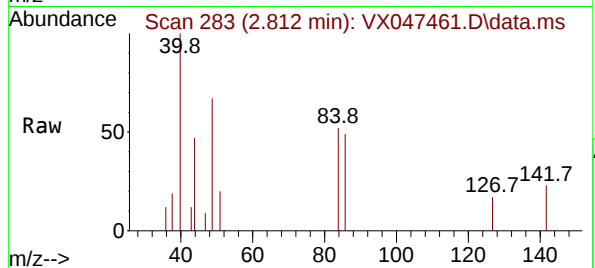
Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

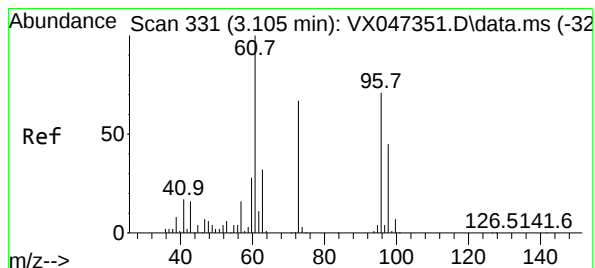
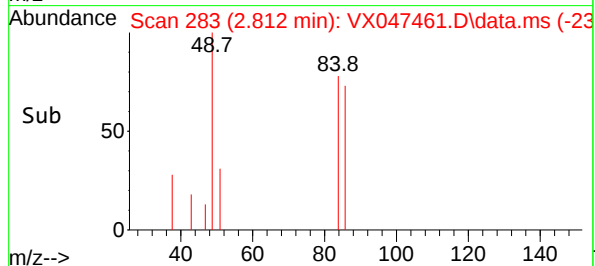
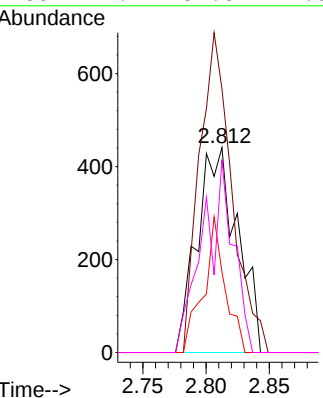
ClientSampleId :

MW-19B-71.5-081325-FD



Tgt Ion: 84 Resp: 978

Ion	Ratio	Lower	Upper
84	100		
49	128.6	100.1	150.1
51	39.2	29.5	44.3
86	94.1	51.8	77.8



#21

trans-1,2-Dichloroethene

Concen: 0.270 ug/l

RT: 3.123 min Scan# 334

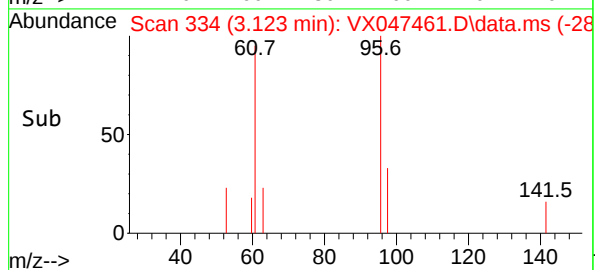
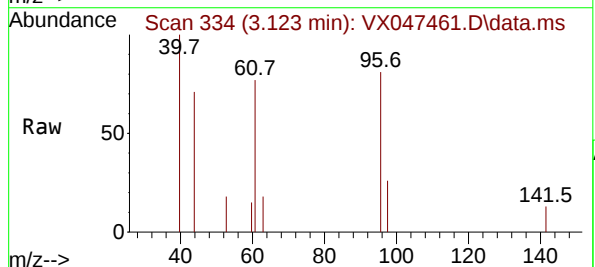
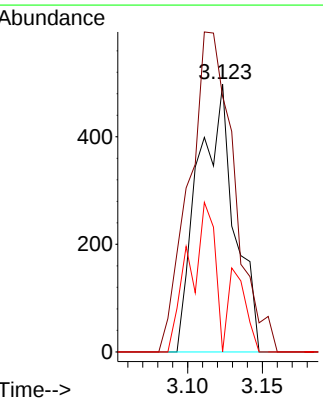
Delta R.T. 0.018 min

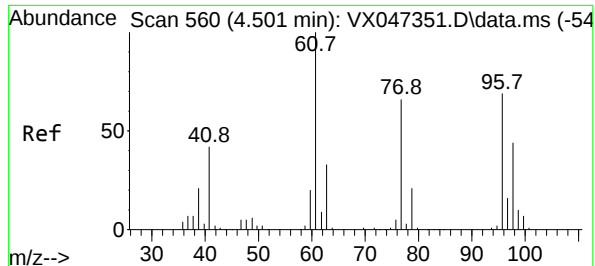
Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

Tgt Ion: 96 Resp: 846

Ion	Ratio	Lower	Upper
96	100		
61	82.9	112.6	169.0
98	0.0	50.9	76.3





#27

cis-1,2-Dichloroethene

Concen: 104.951 ug/l

RT: 4.501 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325-FD

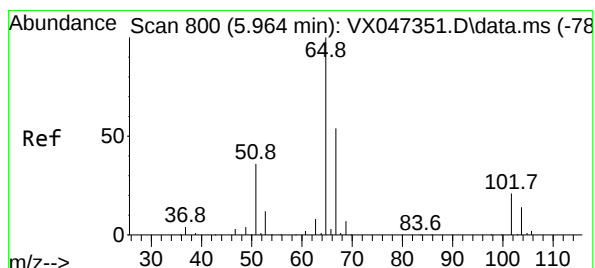
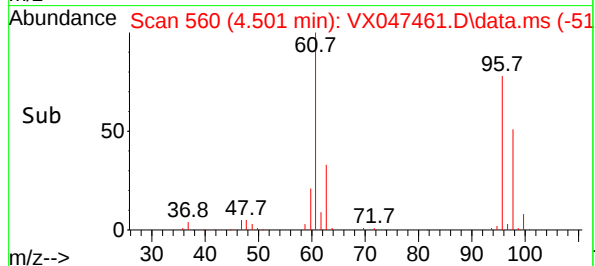
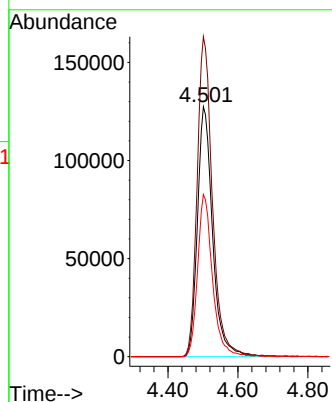
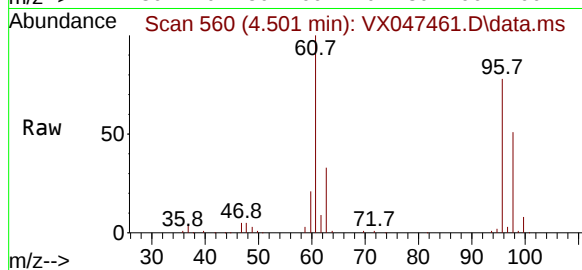
Tgt Ion: 96 Resp: 383526

Ion Ratio Lower Upper

96 100

61 128.6 0.0 296.6

98 63.4 0.0 130.4



#33

1,2-Dichloroethane-d4

Concen: 56.815 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047461.D

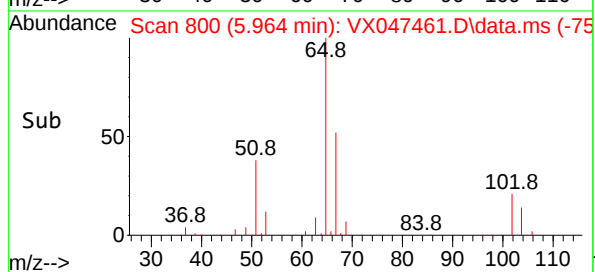
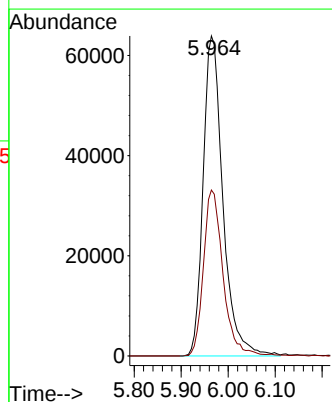
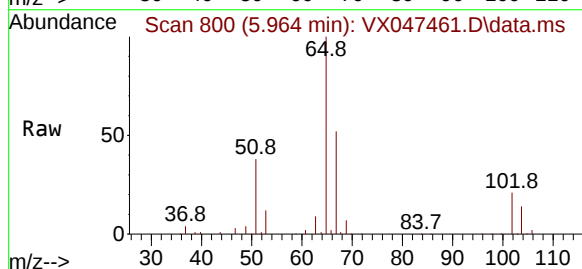
Acq: 21 Aug 2025 12:00

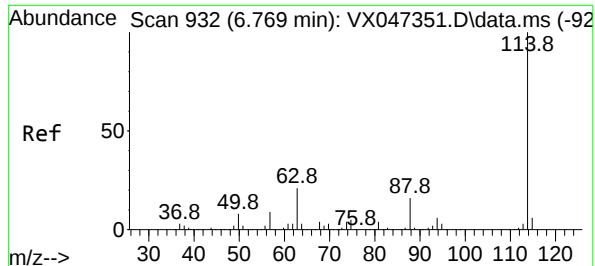
Tgt Ion: 65 Resp: 186685

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325-FD

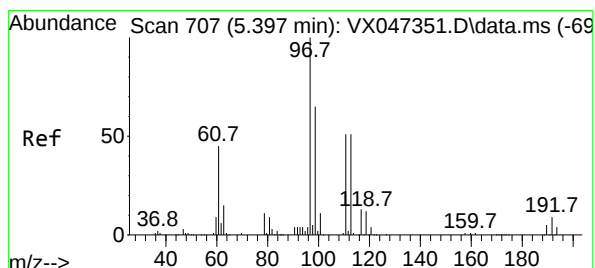
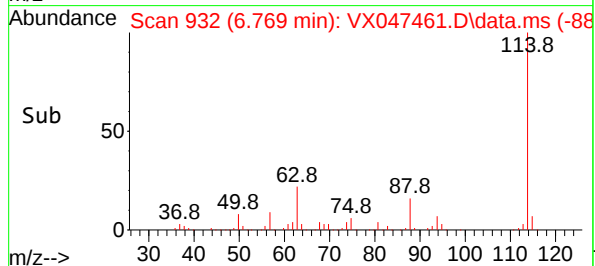
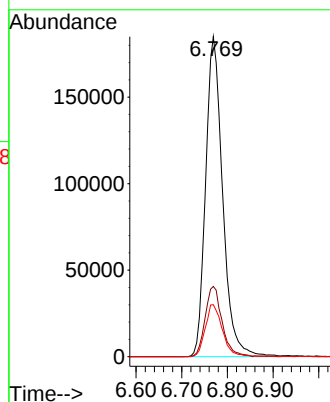
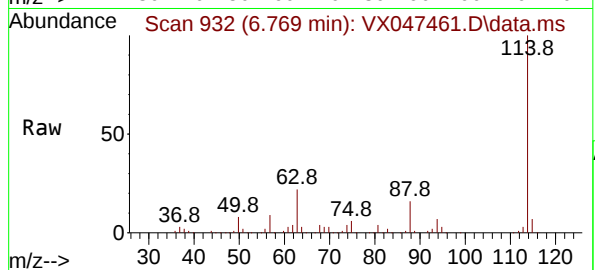
Tgt Ion:114 Resp: 477817

Ion Ratio Lower Upper

114 100

63 22.0 0.0 42.4

88 16.3 0.0 33.0



#35

Dibromofluoromethane

Concen: 49.642 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

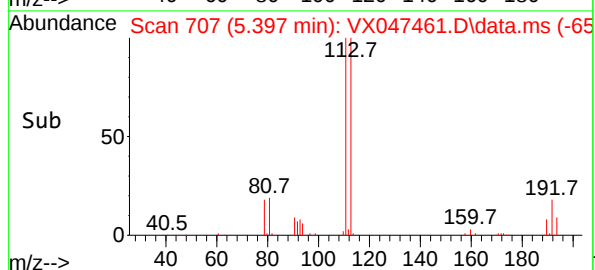
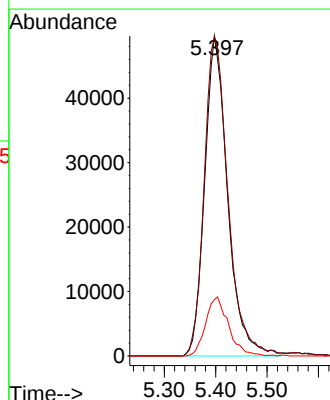
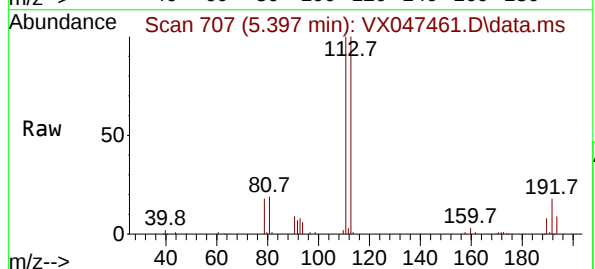
Tgt Ion:113 Resp: 153944

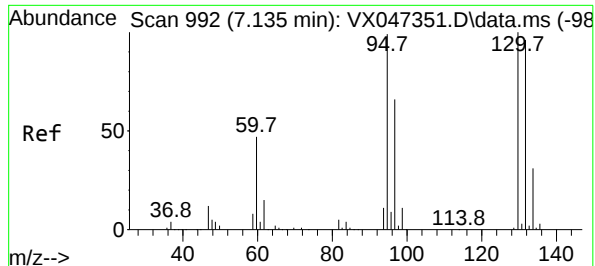
Ion Ratio Lower Upper

113 100

111 103.6 81.4 122.2

192 18.4 14.1 21.1





#44

Trichloroethene

Concen: 101.492 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

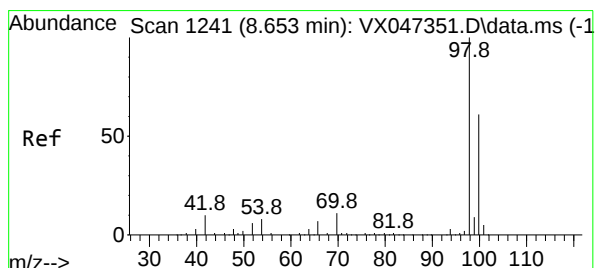
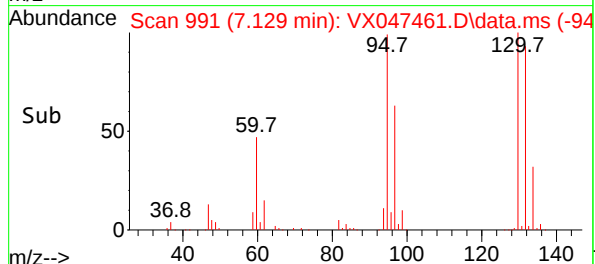
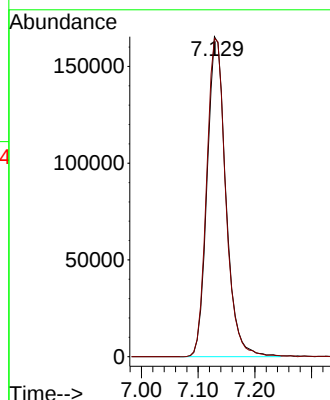
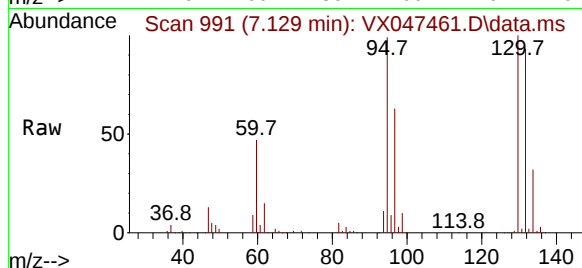
ClientSampleId :

MW-19B-71.5-081325-FD

Tgt Ion:130 Resp: 380783

Ion Ratio Lower Upper

130	100		
95	99.5	0.0	198.6



#50

Toluene-d8

Concen: 49.101 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

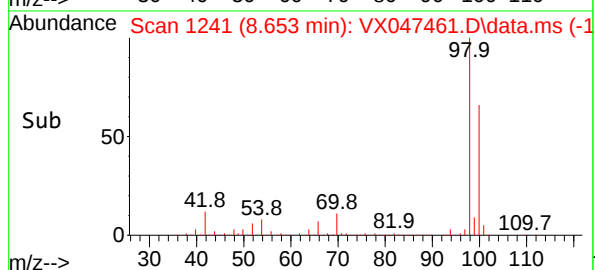
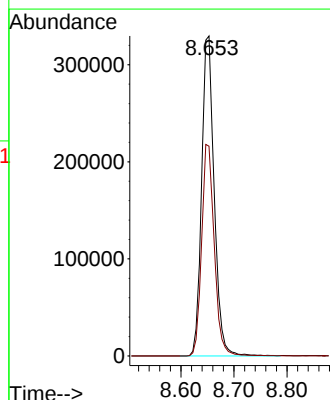
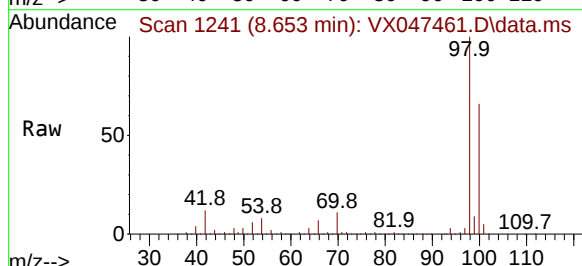
Lab File: VX047461.D

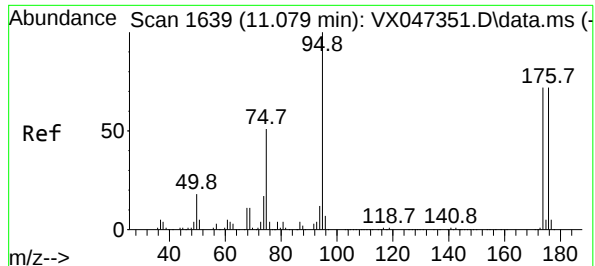
Acq: 21 Aug 2025 12:00

Tgt Ion: 98 Resp: 544241

Ion Ratio Lower Upper

98	100		
100	66.4	53.9	80.9

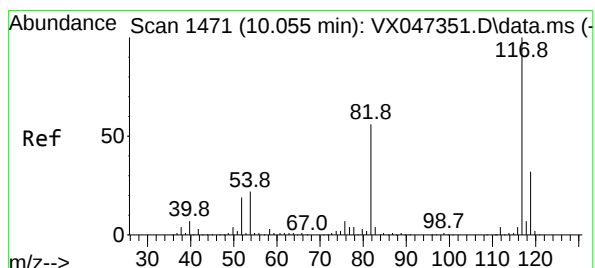
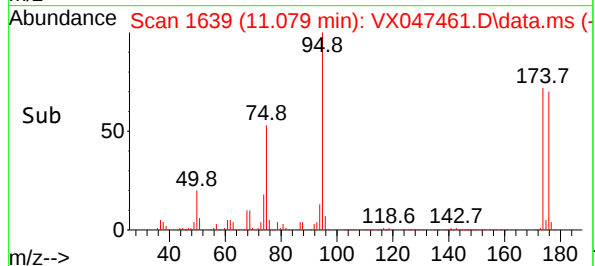
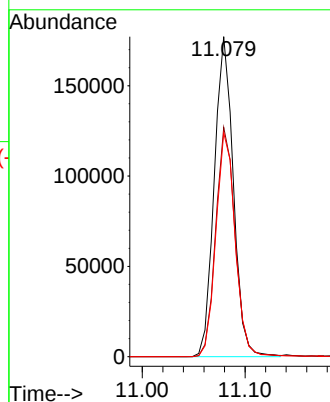
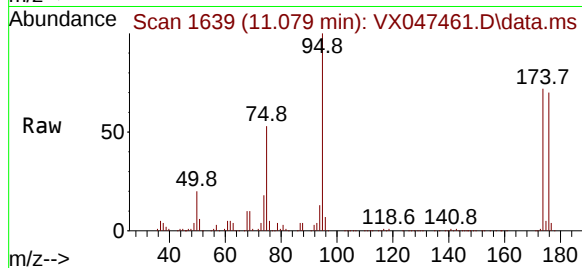




#62
4-Bromofluorobenzene
Concen: 55.674 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

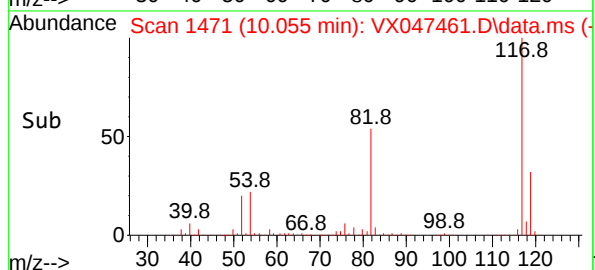
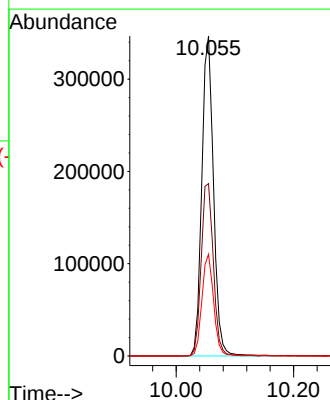
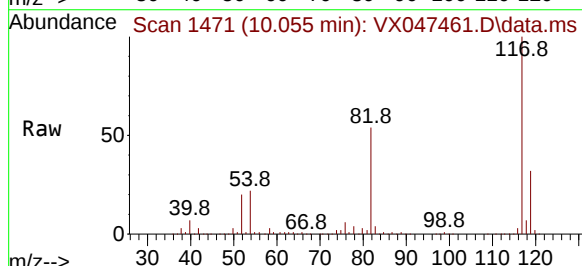
Instrument :
MSVOA_X
ClientSampleId :
MW-19B-71.5-081325-FD

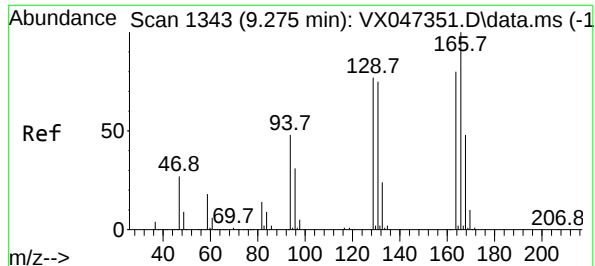
Tgt Ion: 95 Resp: 227719
Ion Ratio Lower Upper
95 100
174 72.9 0.0 148.0
176 71.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047461.D
Acq: 21 Aug 2025 12:00

Tgt Ion: 117 Resp: 477729
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 31.8 25.8 38.8





#64

Tetrachloroethene

Concen: 4.558 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325-FD

Tgt Ion:164 Resp: 15750

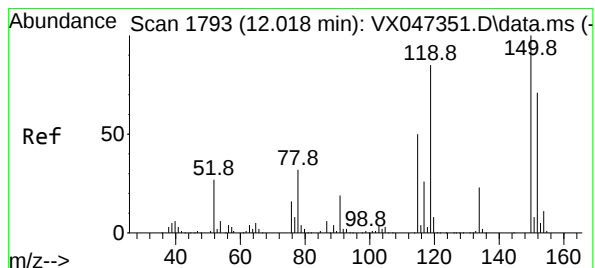
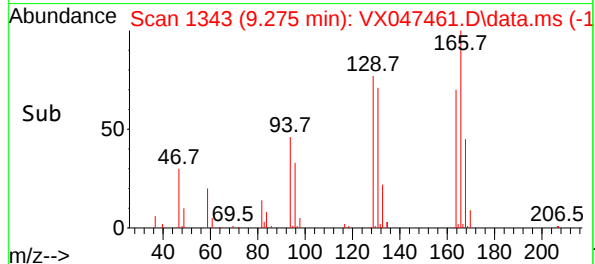
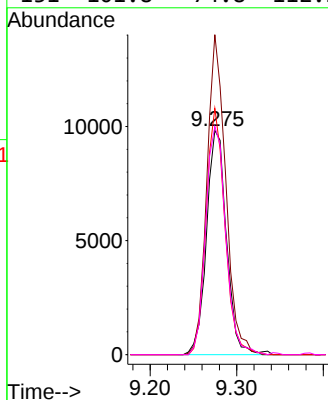
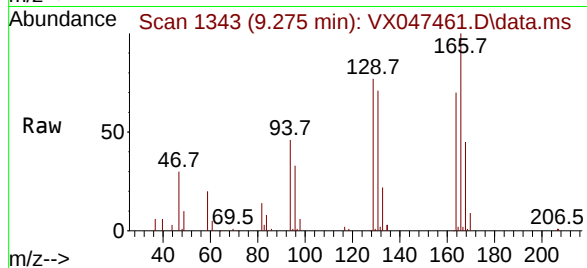
Ion Ratio Lower Upper

164 100

166 142.7 100.3 150.5

129 109.8 77.7 116.5

131 101.8 74.8 112.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047461.D

Acq: 21 Aug 2025 12:00

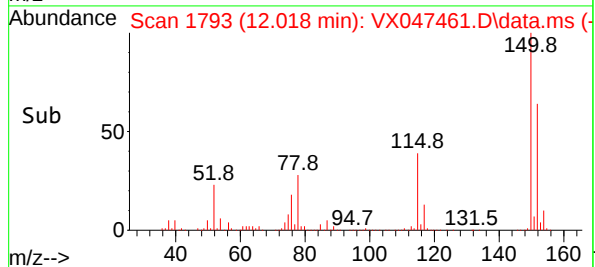
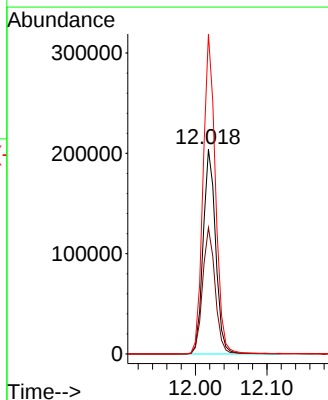
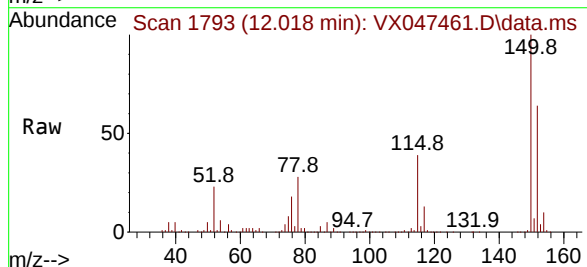
Tgt Ion:152 Resp: 247621

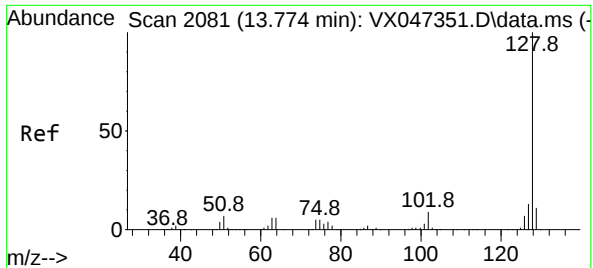
Ion Ratio Lower Upper

152 100

115 62.2 44.6 133.8

150 155.0 0.0 349.8





#95

Naphthalene

Concen: 0.470 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX047461.D

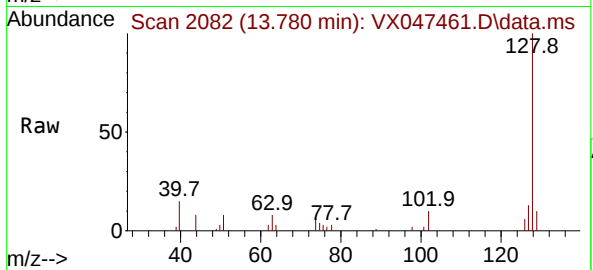
Acq: 21 Aug 2025 12:00

Instrument :

MSVOA_X

ClientSampleId :

MW-19B-71.5-081325-FD



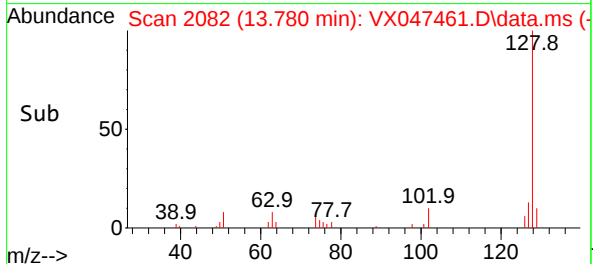
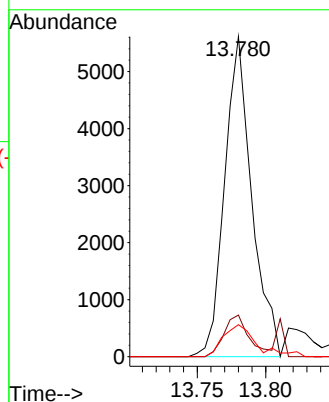
Tgt Ion:128 Resp: 7720

Ion Ratio Lower Upper

128 100

127 12.4 10.1 15.1

129 12.3 8.7 13.1



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047416.D
 Acq On : 19 Aug 2025 16:36
 Operator : JC/MD
 Sample : Q2869-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 20 01:29:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

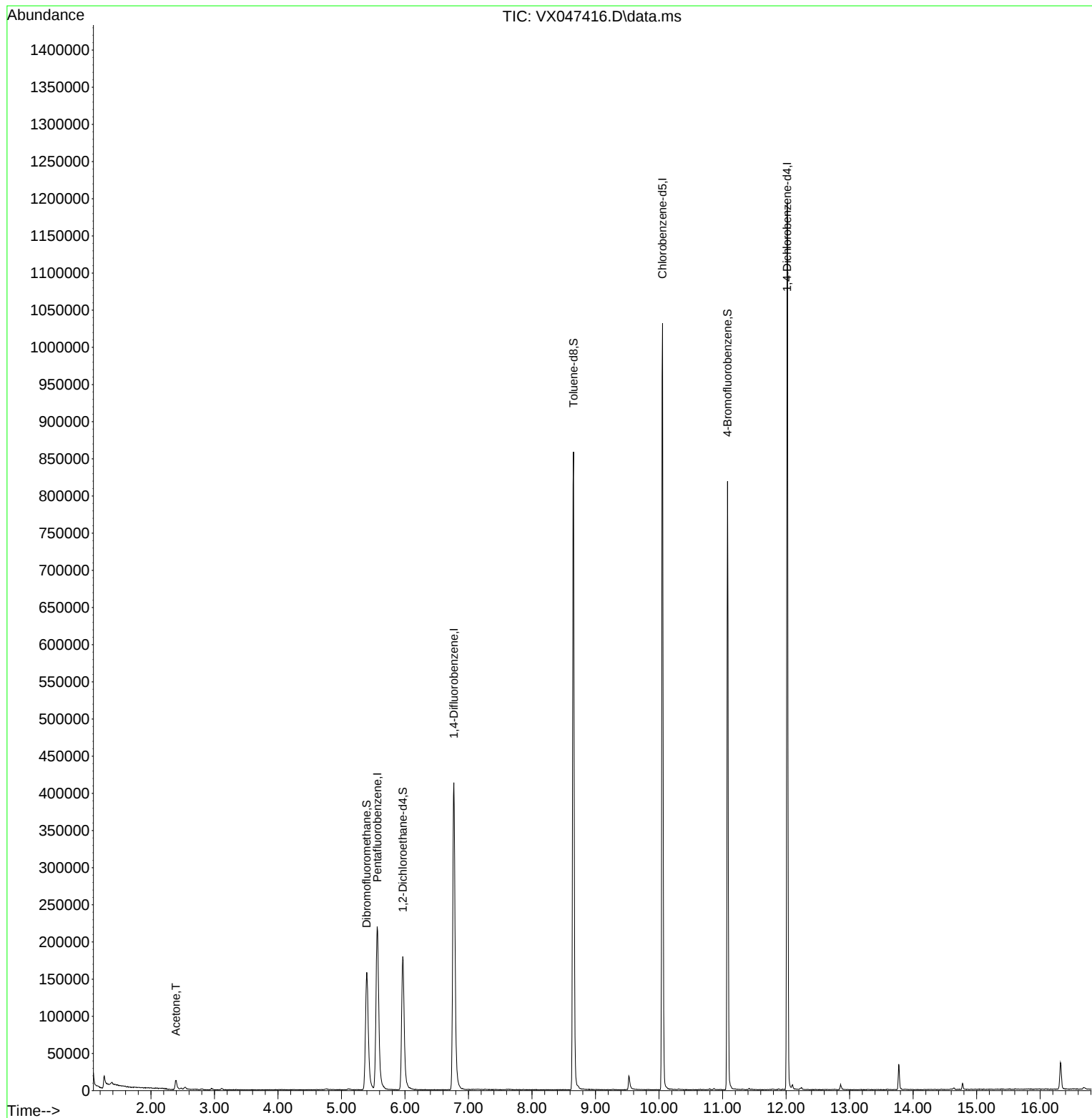
Internal Standards						
1) Pentafluorobenzene	5.562	168	223227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	449571	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	464745	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	238761	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	190215	60.886	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 121.780%#	
35) Dibromofluoromethane	5.397	113	150935	51.730	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.460%	
50) Toluene-d8	8.653	98	521428	49.999	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.000%	
62) 4-Bromofluorobenzene	11.079	95	220160	57.208	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 114.420%	
Target Compounds						
16) Acetone	2.392	43	17383	14.803	ug/l	Qvalue 93

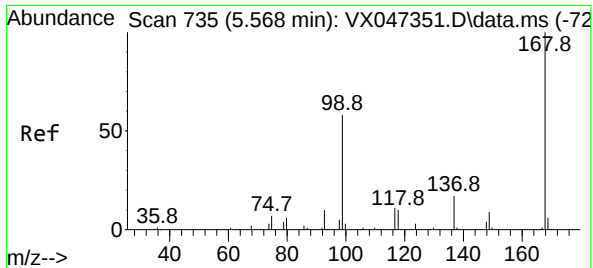
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047416.D
Acq On : 19 Aug 2025 16:36
Operator : JC/MD
Sample : Q2869-07
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB01-081325

Quant Time: Aug 20 01:29:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX047416.D

Acq: 19 Aug 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

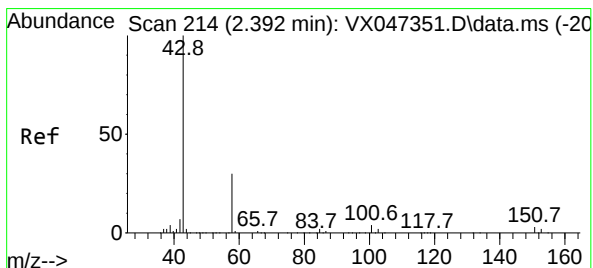
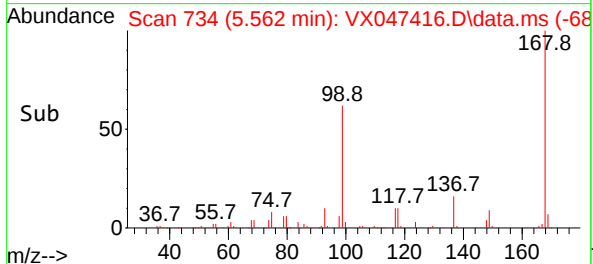
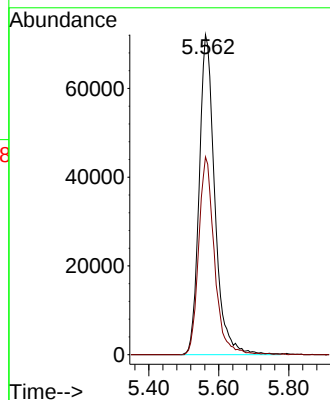
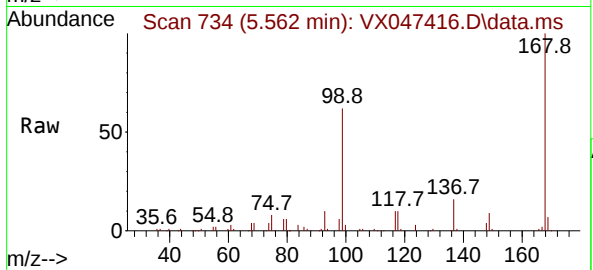
EB01-081325

Tgt Ion:168 Resp: 223227

Ion Ratio Lower Upper

168 100

99 61.8 47.9 71.9



#16

Acetone

Concen: 14.803 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX047416.D

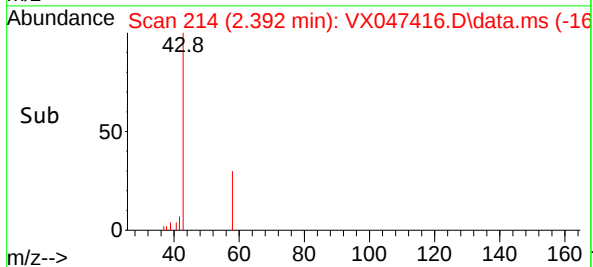
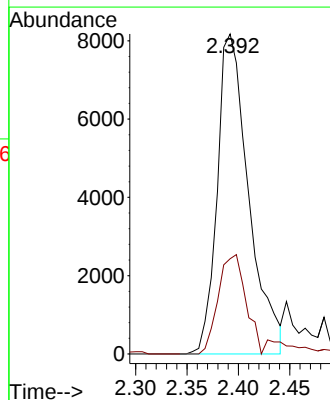
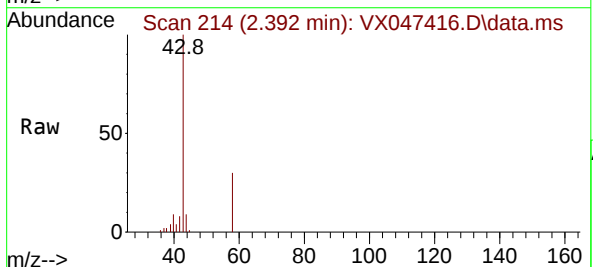
Acq: 19 Aug 2025 16:36

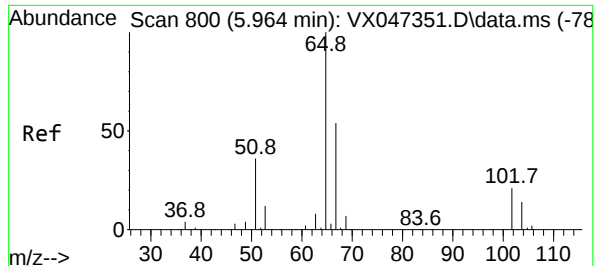
Tgt Ion: 43 Resp: 17383

Ion Ratio Lower Upper

43 100

58 27.3 24.8 37.2





#33

1,2-Dichloroethane-d4

Concen: 60.886 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047416.D

Acq: 19 Aug 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

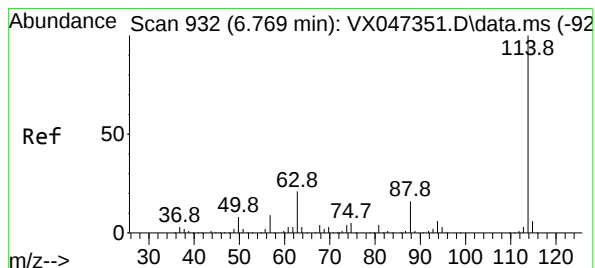
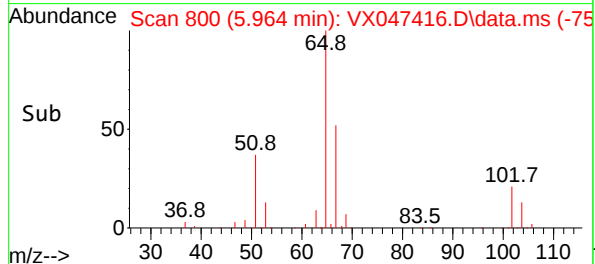
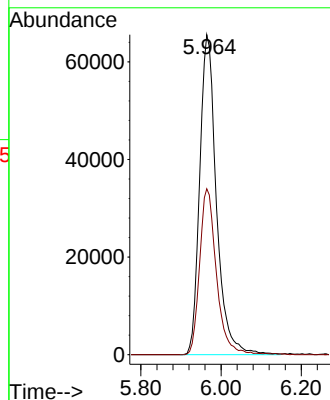
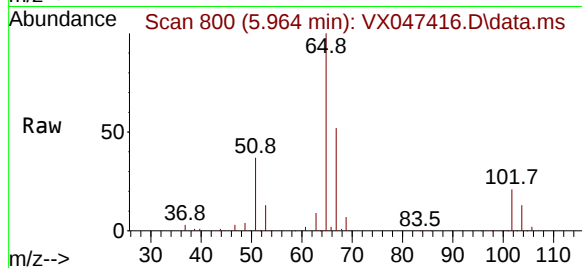
EB01-081325

Tgt Ion: 65 Resp: 190215

Ion Ratio Lower Upper

65 100

67 51.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047416.D

Acq: 19 Aug 2025 16:36

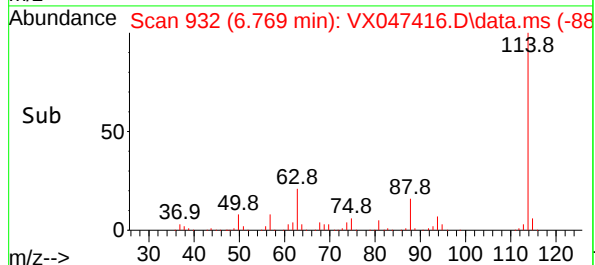
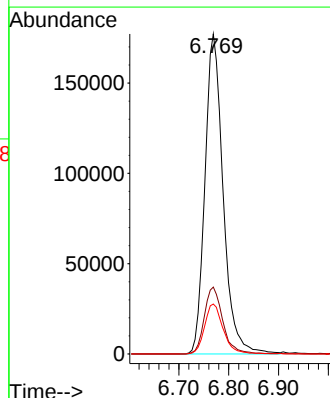
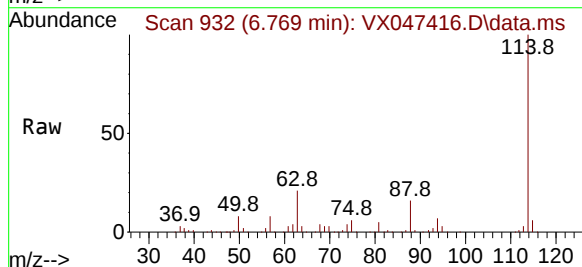
Tgt Ion: 114 Resp: 449571

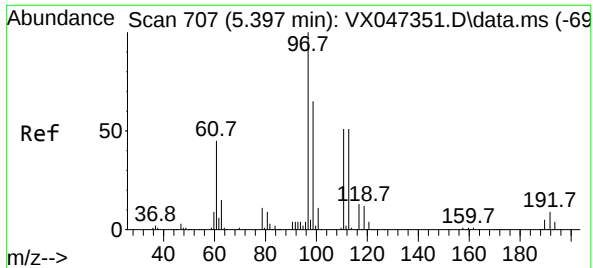
Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.4

88 15.6 0.0 33.0





#35

Dibromofluoromethane

Concen: 51.730 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047416.D

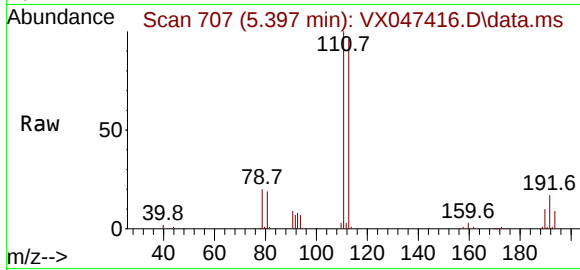
Acq: 19 Aug 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

EB01-081325



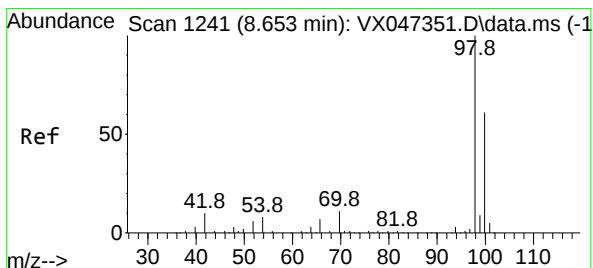
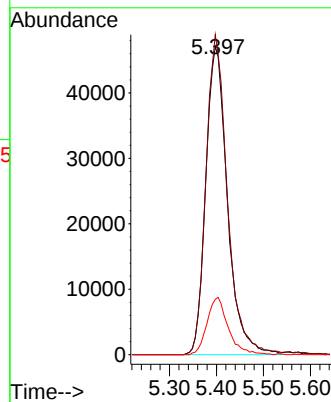
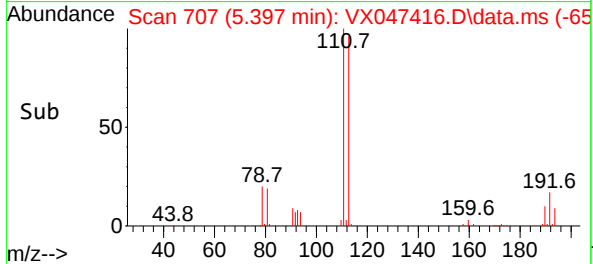
Tgt Ion:113 Resp: 150935

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.2

192 18.2 14.1 21.1



#50

Toluene-d8

Concen: 49.999 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047416.D

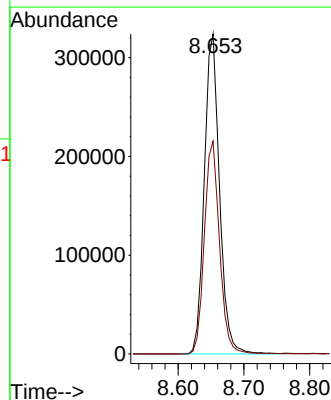
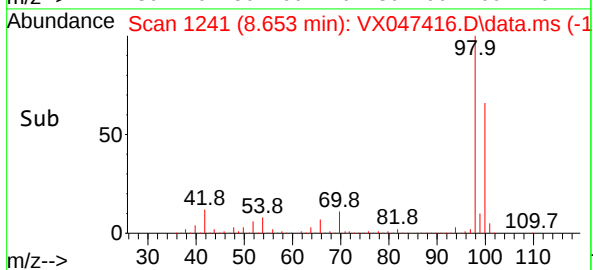
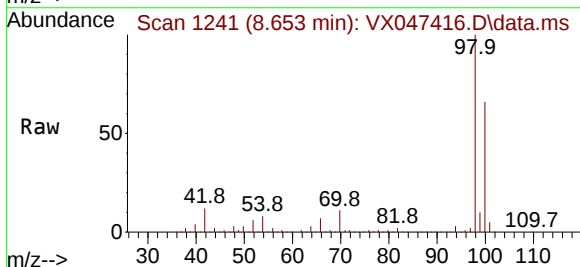
Acq: 19 Aug 2025 16:36

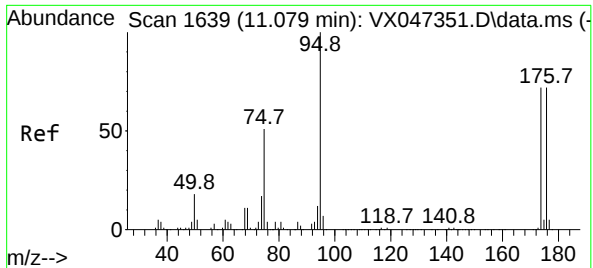
Tgt Ion: 98 Resp: 521428

Ion Ratio Lower Upper

98 100

100 66.4 53.9 80.9

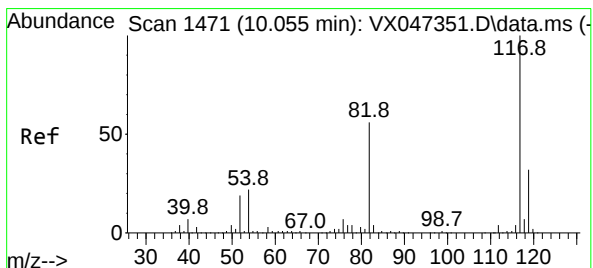
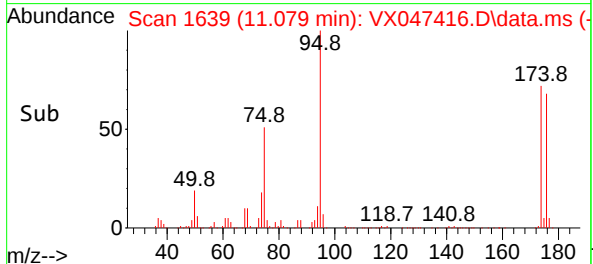
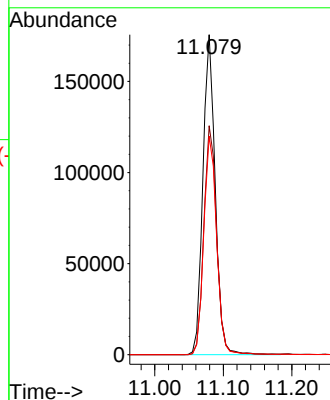
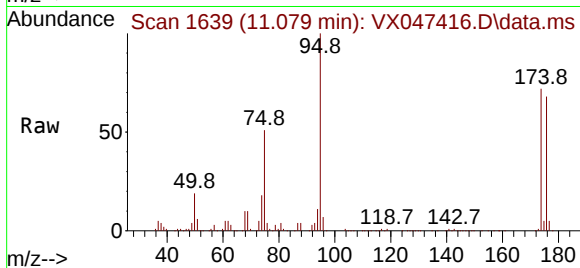




#62
4-Bromofluorobenzene
Concen: 57.208 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047416.D
Acq: 19 Aug 2025 16:36

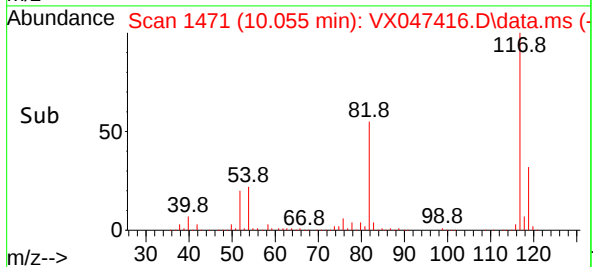
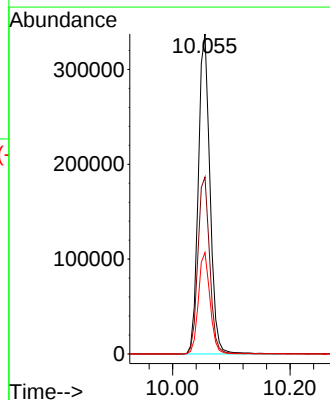
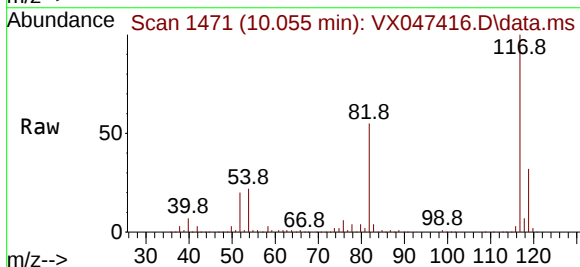
Instrument :
MSVOA_X
ClientSampleId :
EB01-081325

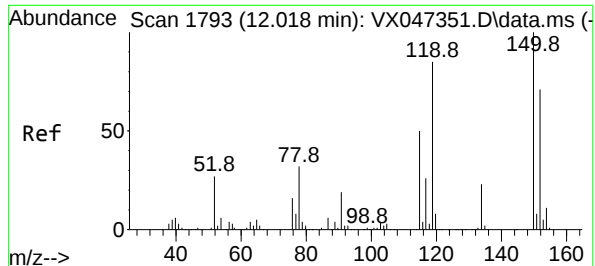
Tgt Ion: 95 Resp: 220160
Ion Ratio Lower Upper
95 100
174 74.1 0.0 148.0
176 71.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047416.D
Acq: 19 Aug 2025 16:36

Tgt Ion: 117 Resp: 464745
Ion Ratio Lower Upper
117 100
82 55.3 45.0 67.4
119 31.7 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047416.D

Acq: 19 Aug 2025 16:36

Instrument :

MSVOA_X

ClientSampleId :

EB01-081325

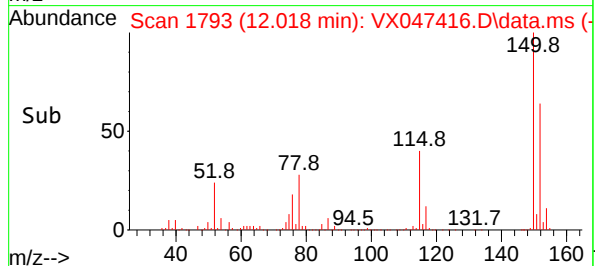
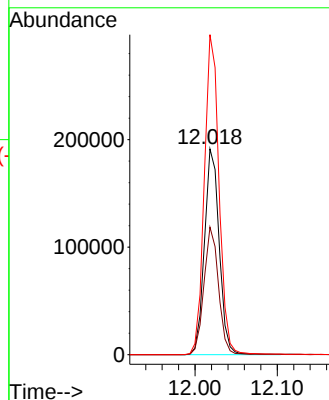
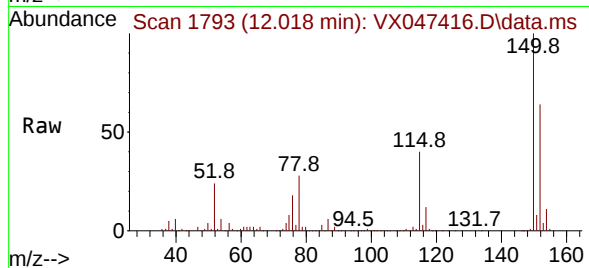
Tgt Ion:152 Resp: 238761

Ion Ratio Lower Upper

152 100

115 61.4 44.6 133.8

150 155.1 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047417.D
 Acq On : 19 Aug 2025 16:57
 Operator : JC/MD
 Sample : Q2869-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB02-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 20 01:29:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

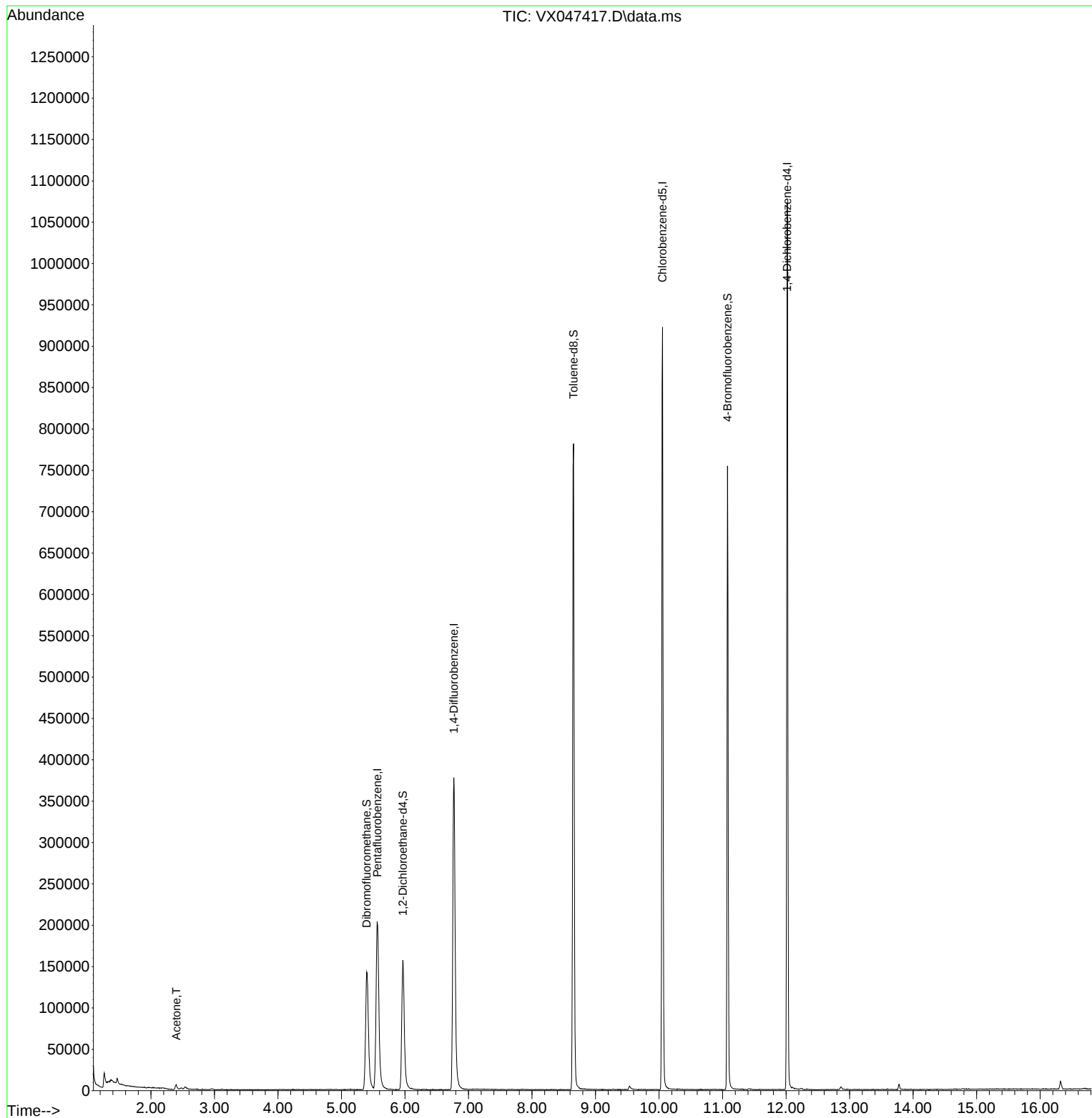
Internal Standards						
1) Pentafluorobenzene	5.562	168	205773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	414097	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	417583	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	212656	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	164219	57.023	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 114.040%	
35) Dibromofluoromethane	5.397	113	137119	51.021	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.040%	
50) Toluene-d8	8.653	98	483216	50.304	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.600%	
62) 4-Bromofluorobenzene	11.079	95	199041	56.150	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 112.300%	
Target Compounds						
16) Acetone	2.398	43	8905	8.226	ug/l	Qvalue # 84

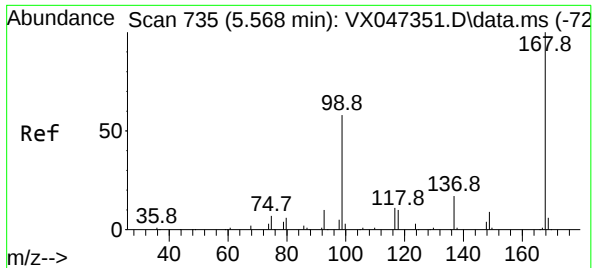
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047417.D
Acq On : 19 Aug 2025 16:57
Operator : JC/MD
Sample : Q2869-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
EB02-081325

Quant Time: Aug 20 01:29:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

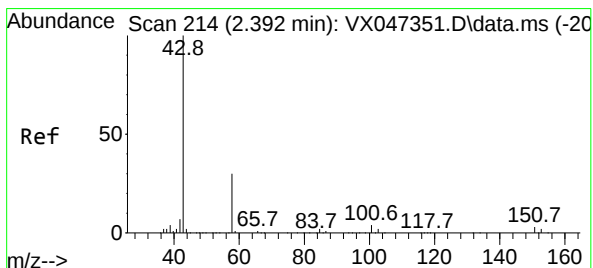
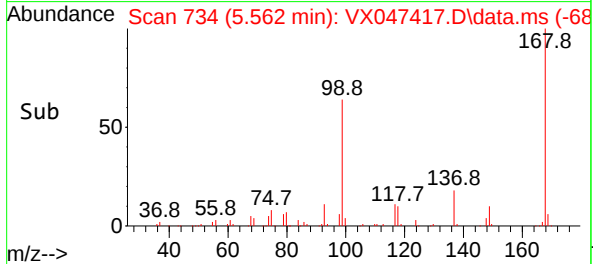
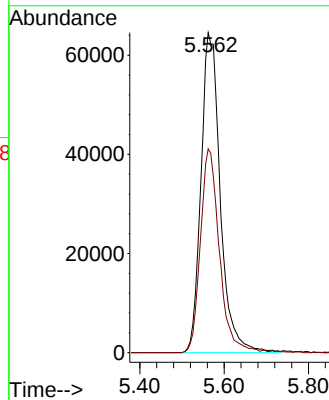
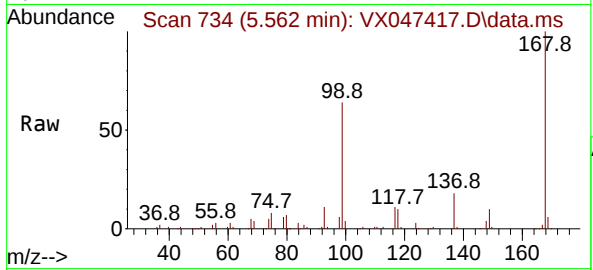




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047417.D
Acq: 19 Aug 2025 16:57

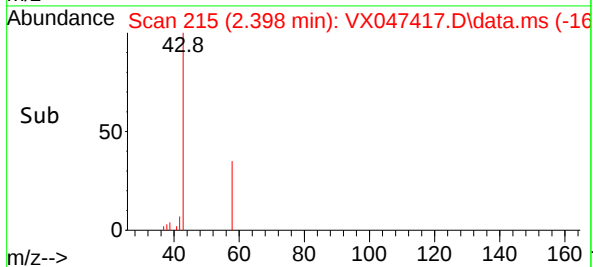
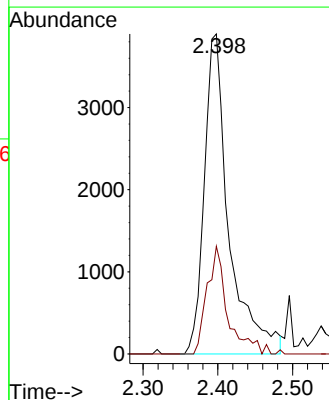
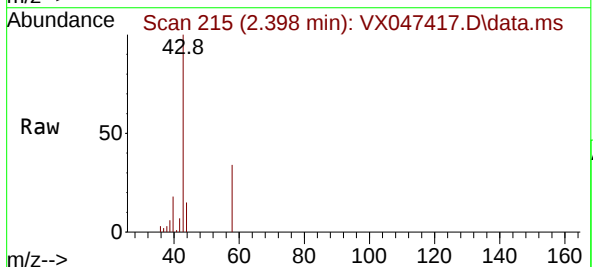
Instrument :
MSVOA_X
ClientSampleId :
EB02-081325

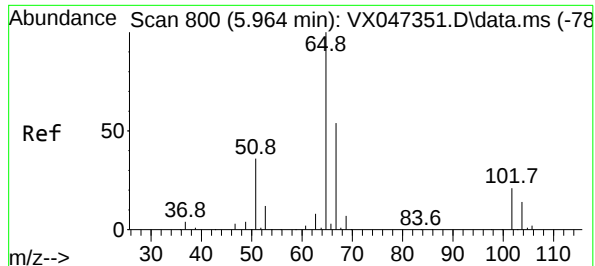
Tgt Ion:168 Resp: 205773
Ion Ratio Lower Upper
168 100
99 63.7 47.9 71.9



#16
Acetone
Concen: 8.226 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047417.D
Acq: 19 Aug 2025 16:57

Tgt Ion: 43 Resp: 8905
Ion Ratio Lower Upper
43 100
58 40.0 24.8 37.2#





#33

1,2-Dichloroethane-d4

Concen: 57.023 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047417.D

Acq: 19 Aug 2025 16:57

Instrument :

MSVOA_X

ClientSampleId :

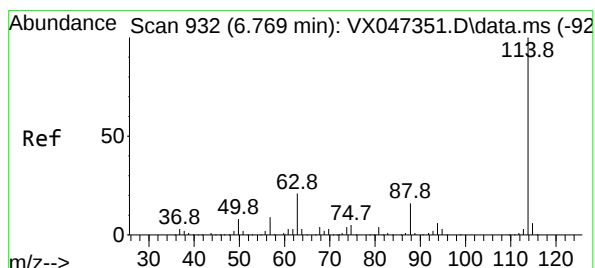
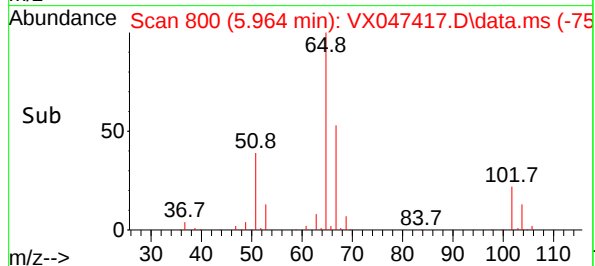
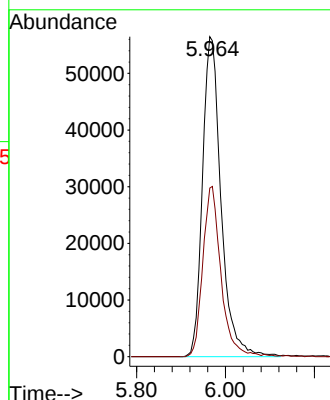
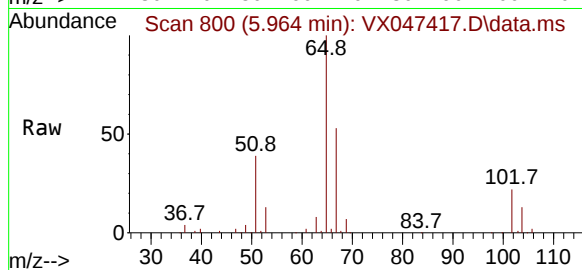
EB02-081325

Tgt Ion: 65 Resp: 164219

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047417.D

Acq: 19 Aug 2025 16:57

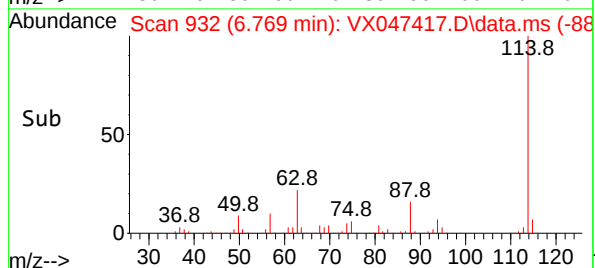
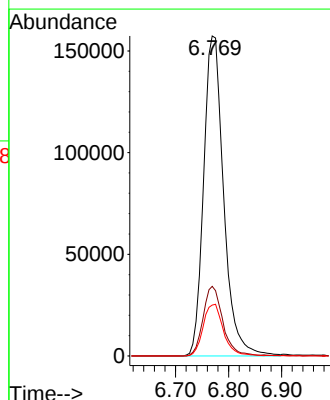
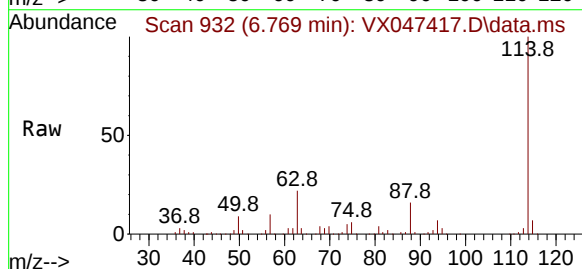
Tgt Ion: 114 Resp: 414097

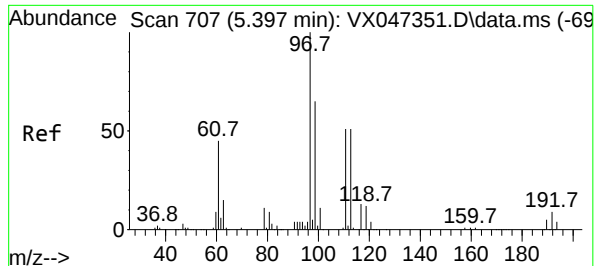
Ion Ratio Lower Upper

114 100

63 24.8 0.0 42.4

88 15.9 0.0 33.0





#35

Dibromofluoromethane

Concen: 51.021 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047417.D

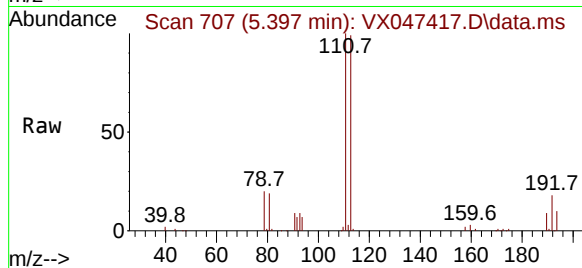
Acq: 19 Aug 2025 16:57

Instrument :

MSVOA_X

ClientSampleId :

EB02-081325



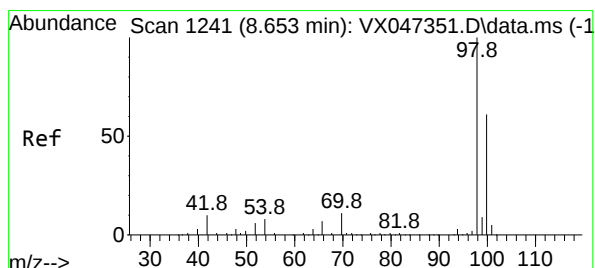
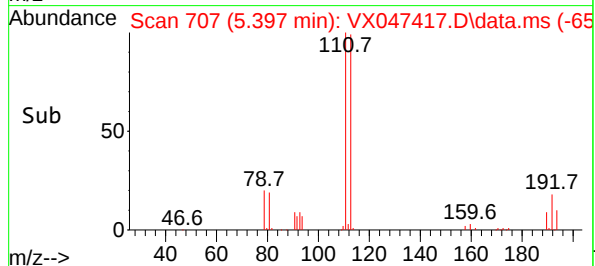
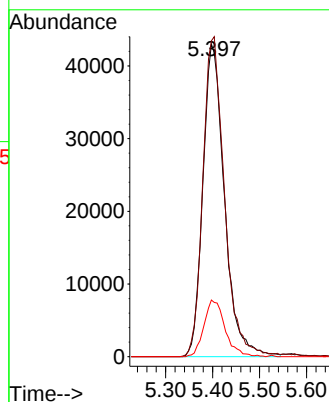
Tgt Ion:113 Resp: 137119

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.2

192 17.8 14.1 21.1



#50

Toluene-d8

Concen: 50.304 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047417.D

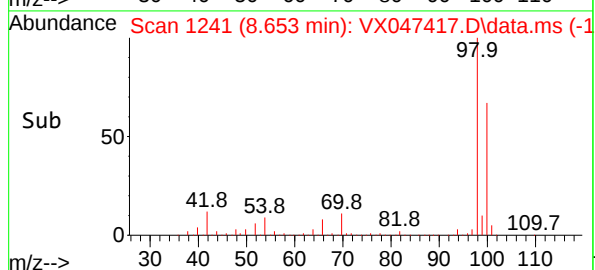
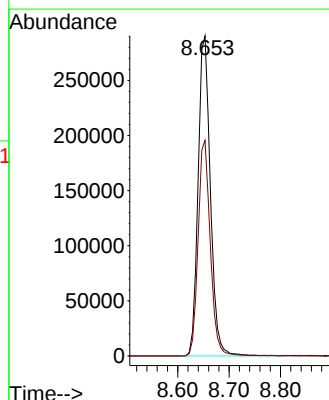
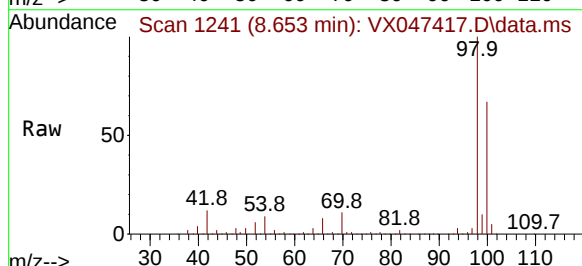
Acq: 19 Aug 2025 16:57

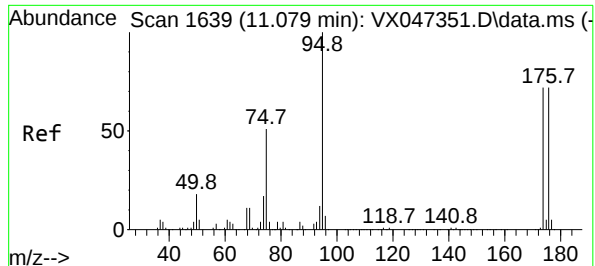
Tgt Ion: 98 Resp: 483216

Ion Ratio Lower Upper

98 100

100 66.8 53.9 80.9

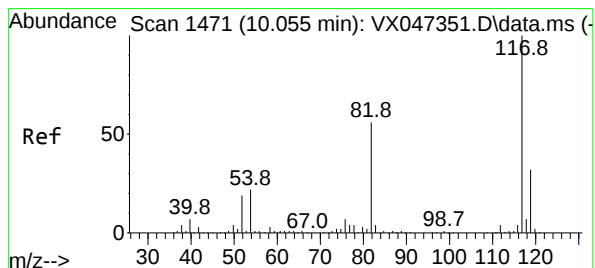
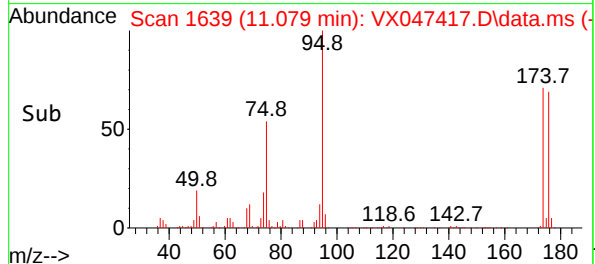
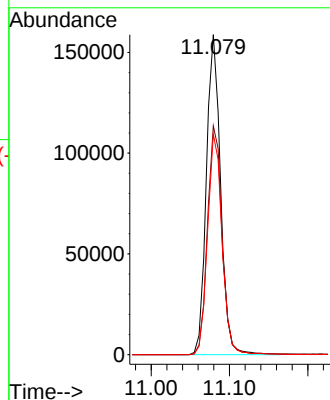
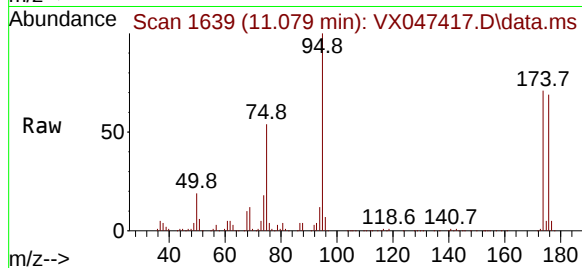




#62
4-Bromofluorobenzene
Concen: 56.150 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047417.D
Acq: 19 Aug 2025 16:57

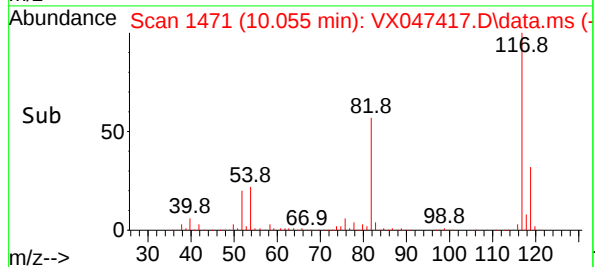
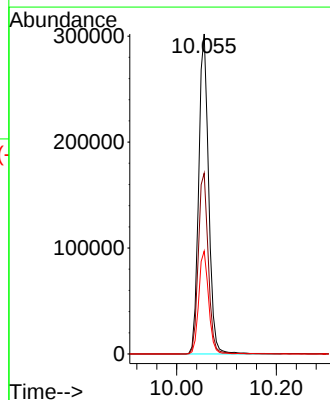
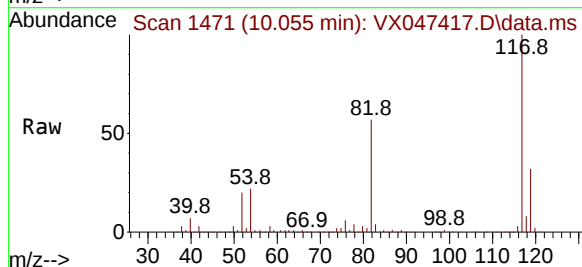
Instrument :
MSVOA_X
ClientSampleId :
EB02-081325

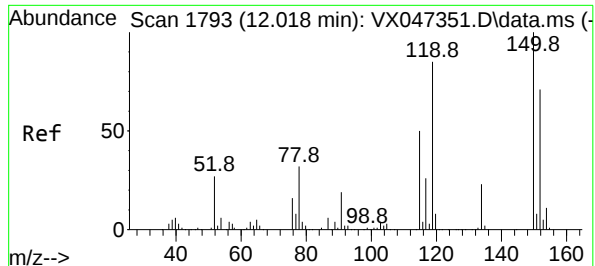
Tgt Ion: 95 Resp: 199041
Ion Ratio Lower Upper
95 100
174 74.0 0.0 148.0
176 70.7 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047417.D
Acq: 19 Aug 2025 16:57

Tgt Ion: 117 Resp: 417583
Ion Ratio Lower Upper
117 100
82 56.5 45.0 67.4
119 32.2 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047417.D

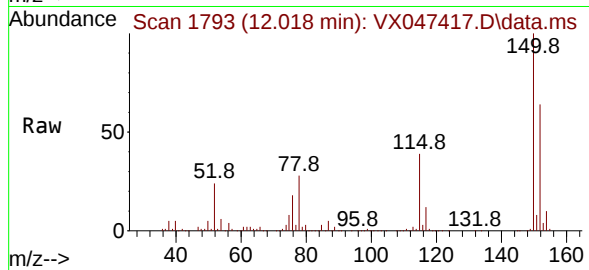
Acq: 19 Aug 2025 16:57

Instrument :

MSVOA_X

ClientSampleId :

EB02-081325



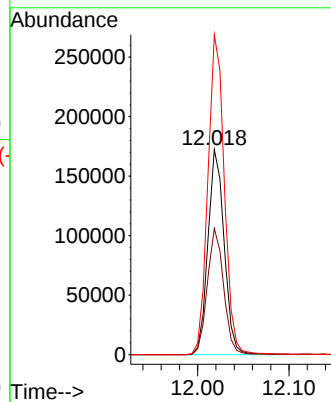
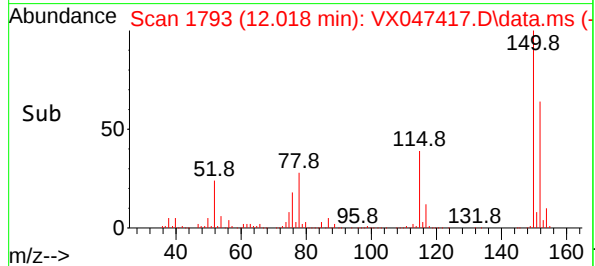
Tgt Ion:152 Resp: 212656

Ion Ratio Lower Upper

152 100

115 61.8 44.6 133.8

150 158.1 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047418.D
Acq On : 19 Aug 2025 17:18
Operator : JC/MD
Sample : Q2869-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB01-081325

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 20 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	204851	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	415100	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	420679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	219893	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	167900	58.564	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	117.120%#
35) Dibromofluoromethane	5.397	113	134098	49.776	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.560%
50) Toluene-d8	8.653	98	464326	48.221	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	96.440%
62) 4-Bromofluorobenzene	11.079	95	198402	55.835	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.660%

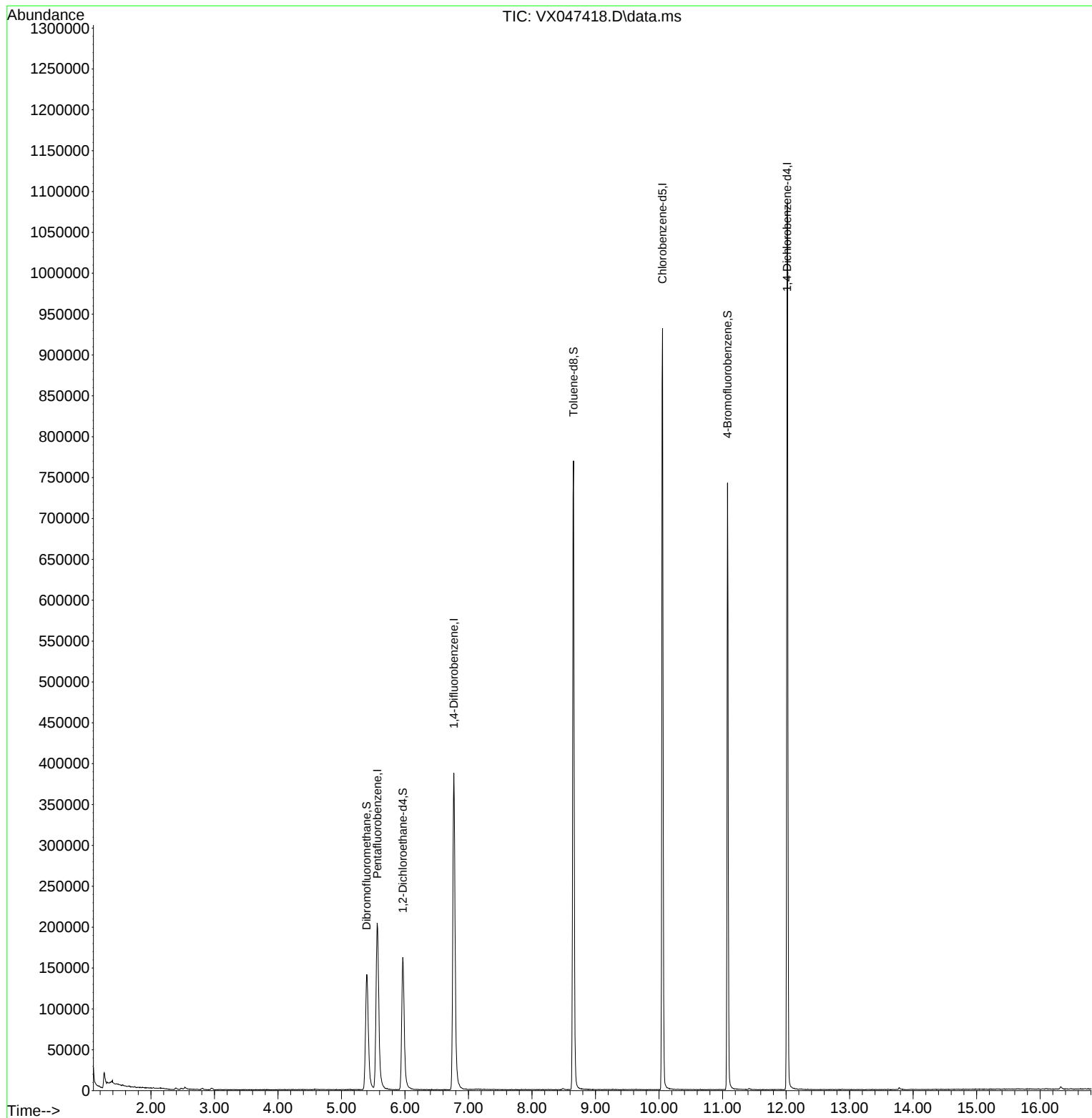
Target Compounds	Qvalue

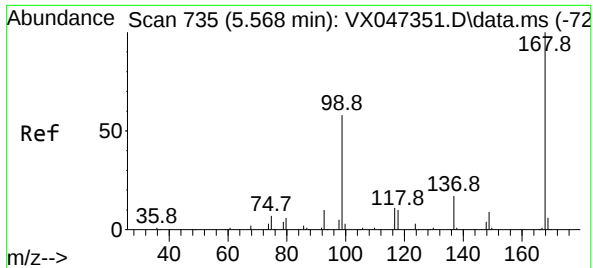
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047418.D
Acq On : 19 Aug 2025 17:18
Operator : JC/MD
Sample : Q2869-11
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
TB01-081325

Quant Time: Aug 20 01:30:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

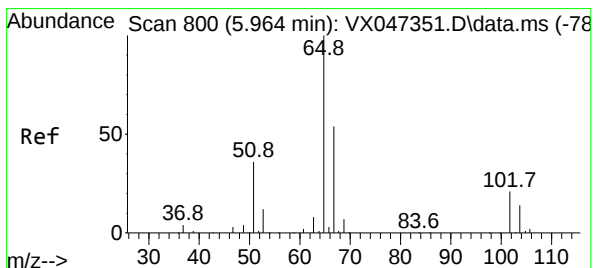
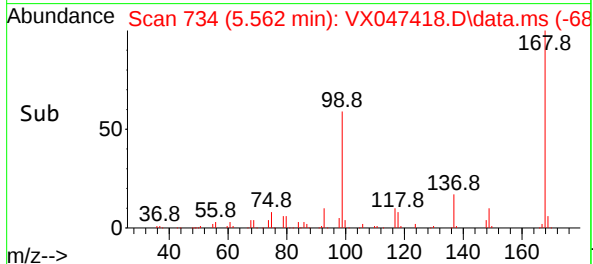
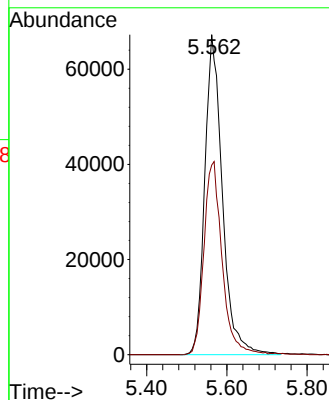
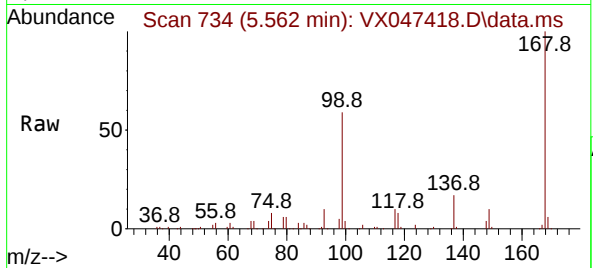




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047418.D
Acq: 19 Aug 2025 17:18

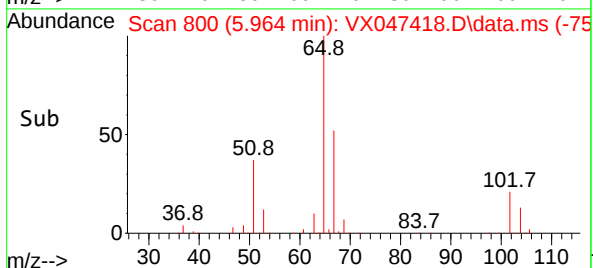
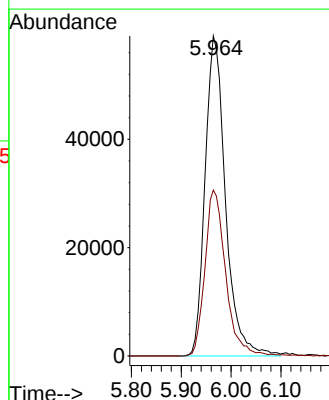
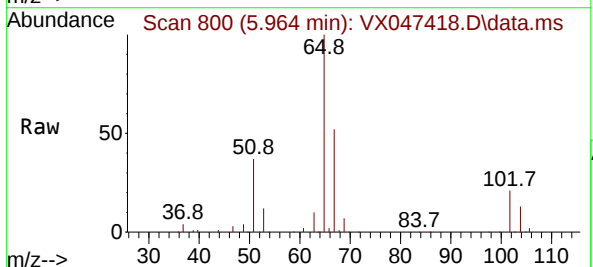
Instrument :
MSVOA_X
ClientSampleId :
TB01-081325

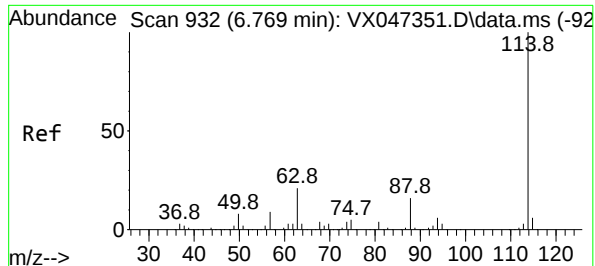
Tgt Ion:168 Resp: 204851
Ion Ratio Lower Upper
168 100
99 59.3 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 58.564 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047418.D
Acq: 19 Aug 2025 17:18

Tgt Ion: 65 Resp: 167900
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

TB01-081325

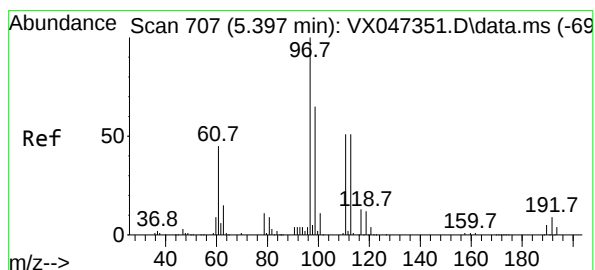
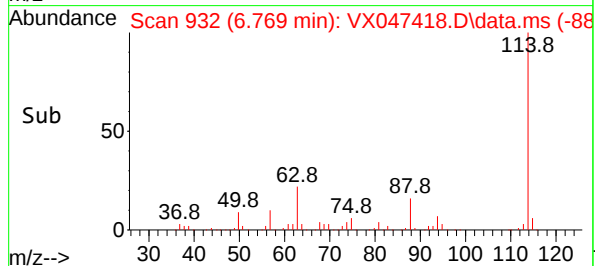
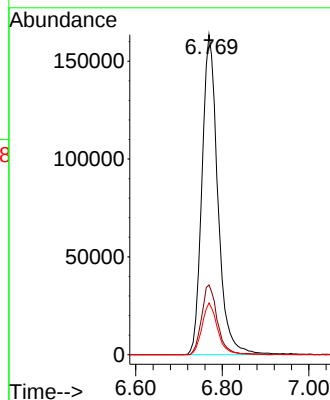
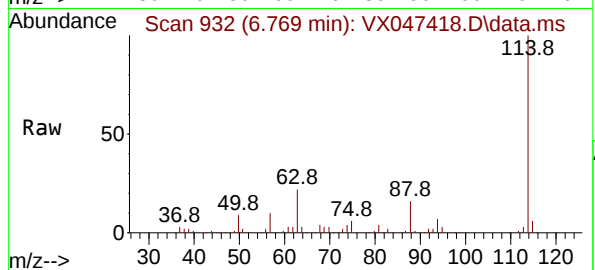
Tgt Ion:114 Resp: 415100

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.4

88 16.2 0.0 33.0



#35

Dibromofluoromethane

Concen: 49.776 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

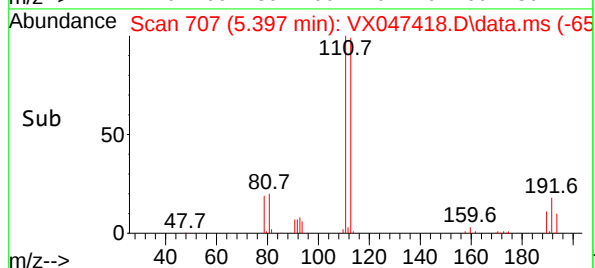
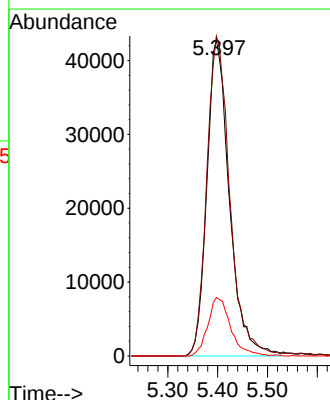
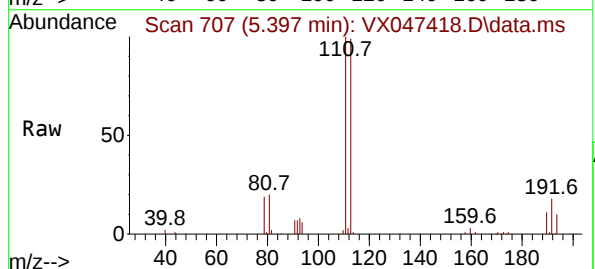
Tgt Ion:113 Resp: 134098

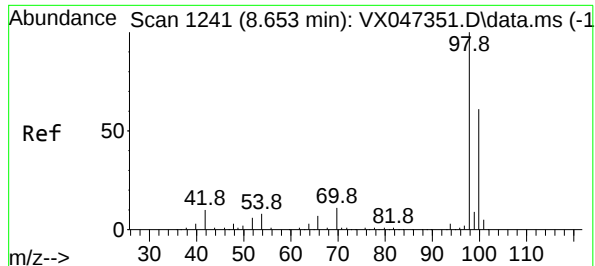
Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.2

192 18.8 14.1 21.1





#50

Toluene-d8

Concen: 48.221 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

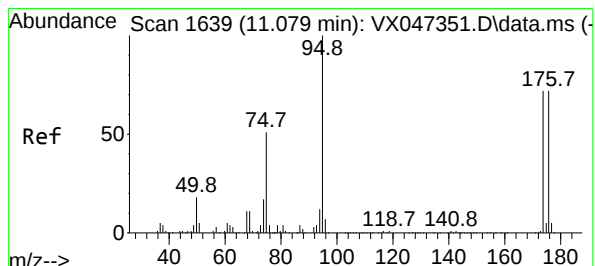
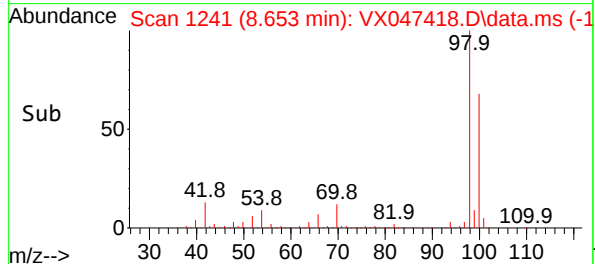
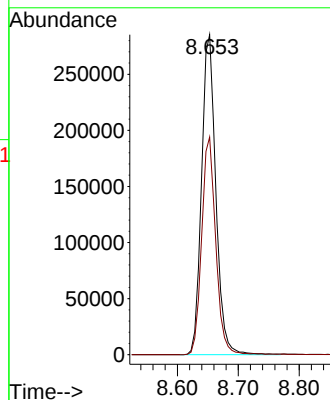
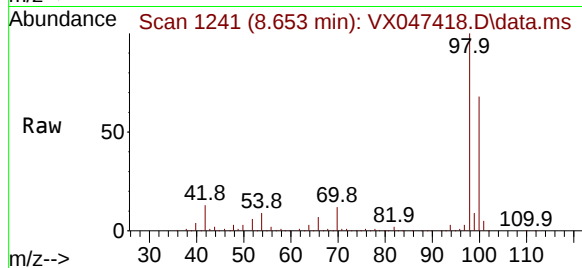
TB01-081325

Tgt Ion: 98 Resp: 464326

Ion Ratio Lower Upper

98 100

100 66.9 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 55.835 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

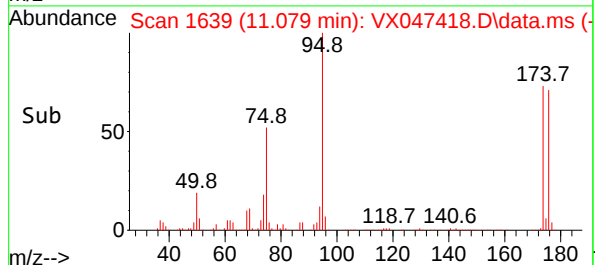
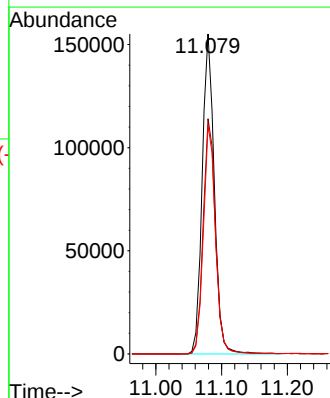
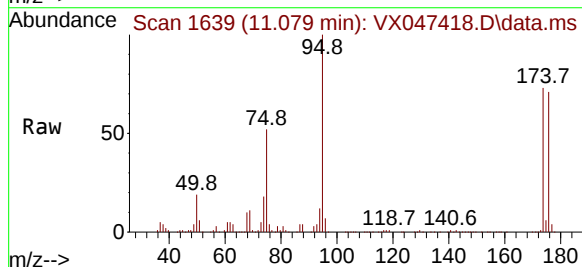
Tgt Ion: 95 Resp: 198402

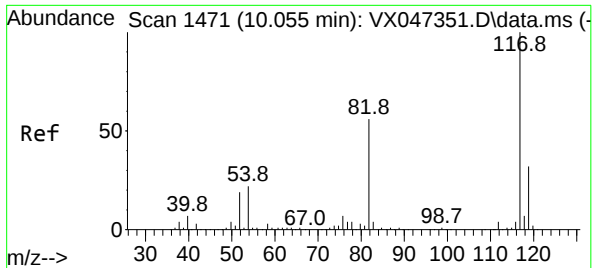
Ion Ratio Lower Upper

95 100

174 74.5 0.0 148.0

176 71.3 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

Instrument :

MSVOA_X

ClientSampleId :

TB01-081325

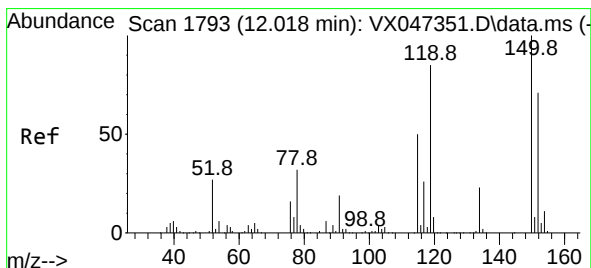
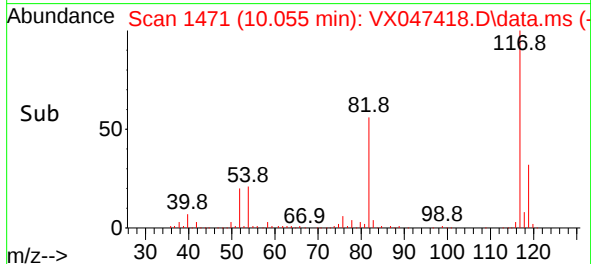
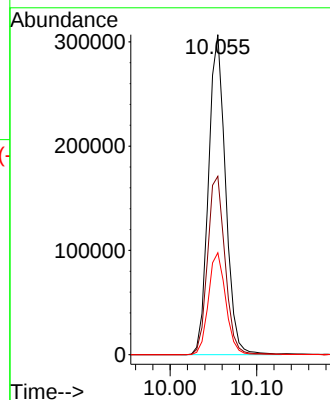
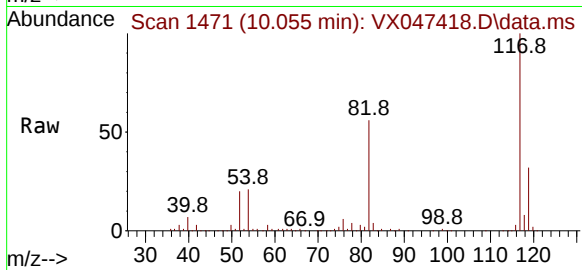
Tgt Ion:117 Resp: 420679

Ion Ratio Lower Upper

117 100

82 55.7 45.0 67.4

119 31.8 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047418.D

Acq: 19 Aug 2025 17:18

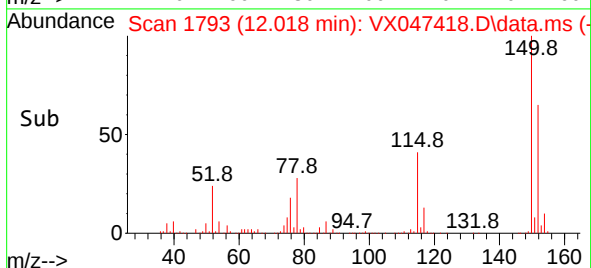
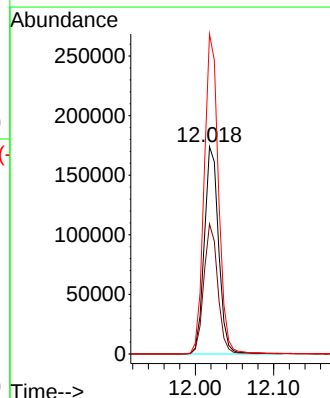
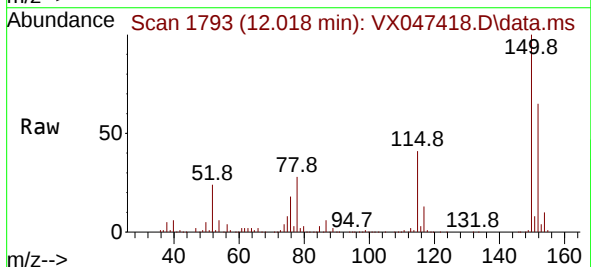
Tgt Ion:152 Resp: 219893

Ion Ratio Lower Upper

152 100

115 61.5 44.6 133.8

150 155.1 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	204625	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	410508	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	416324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	212865	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	163941	57.246	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	114.500%
35) Dibromofluoromethane	5.391	113	135590	50.893	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.780%
50) Toluene-d8	8.647	98	471489	49.512	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.020%
62) 4-Bromofluorobenzene	11.079	95	197272	56.138	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	112.280%

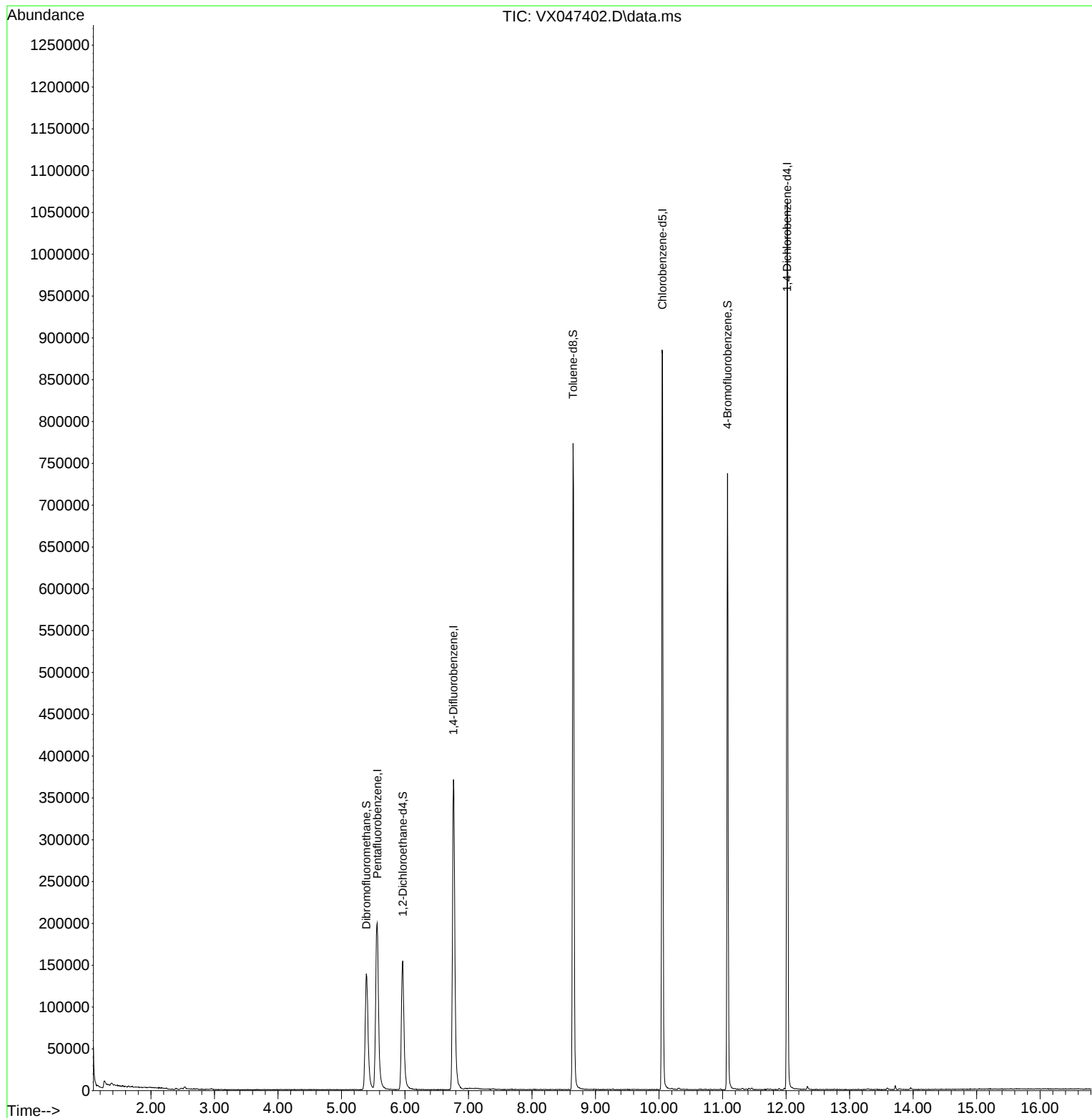
Target Compounds	Qvalue

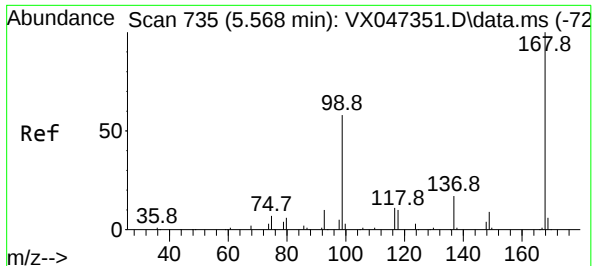
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047402.D
Acq On : 19 Aug 2025 10:55
Operator : JC/MD
Sample : VX0819WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

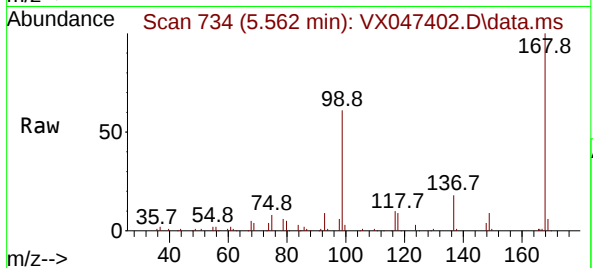
Quant Time: Aug 19 11:12:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



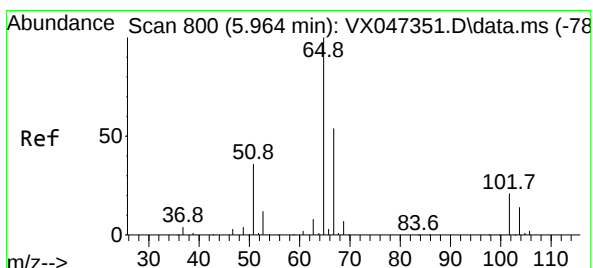
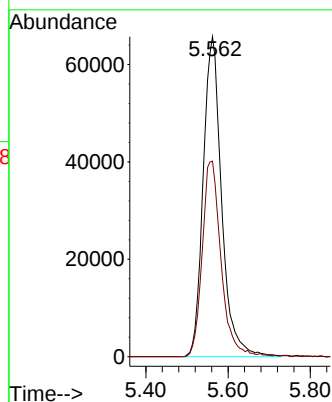
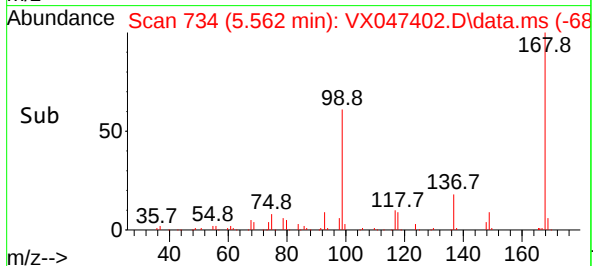


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBL01

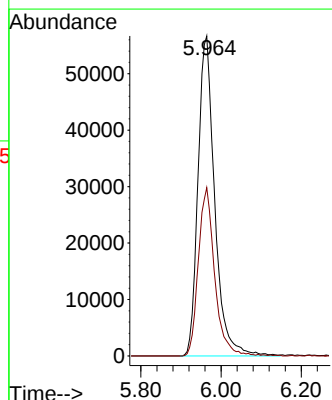
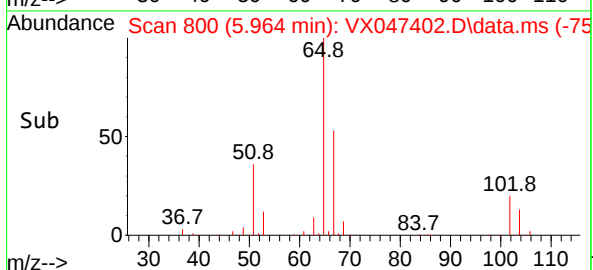
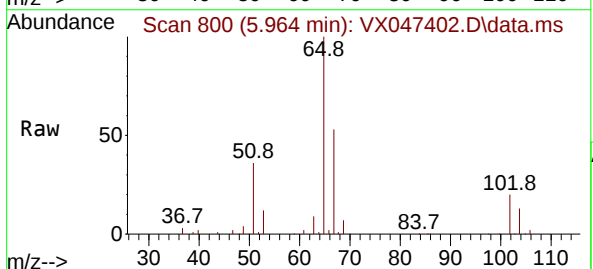


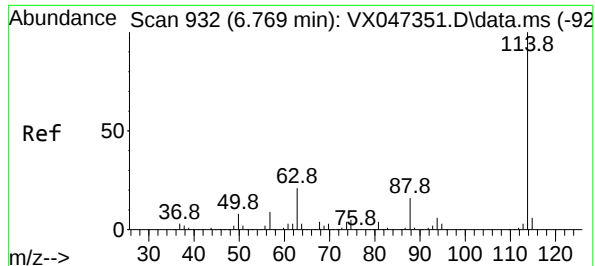
Tgt Ion:168 Resp: 204625
Ion Ratio Lower Upper
168 100
99 61.1 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 57.246 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047402.D
Acq: 19 Aug 2025 10:55

Tgt Ion: 65 Resp: 163941
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBL01

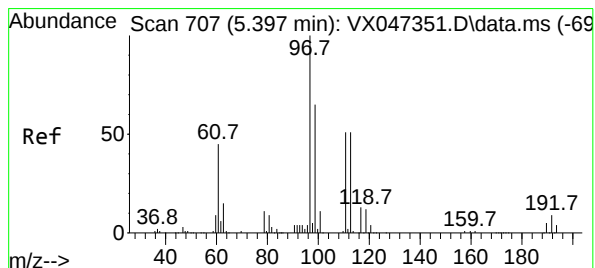
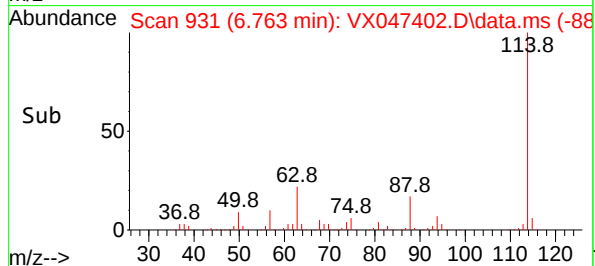
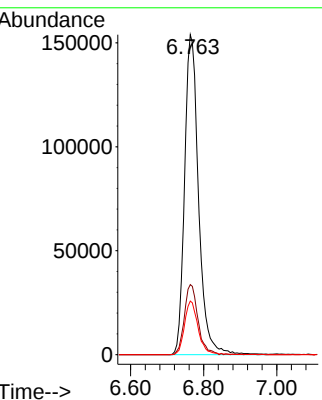
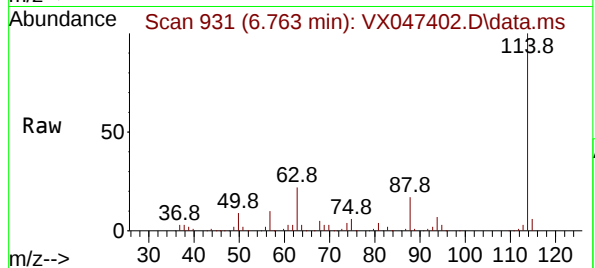
Tgt Ion:114 Resp: 410508

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.4

88 16.7 0.0 33.0



#35

Dibromofluoromethane

Concen: 50.893 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

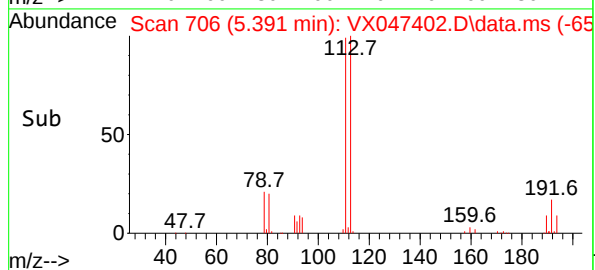
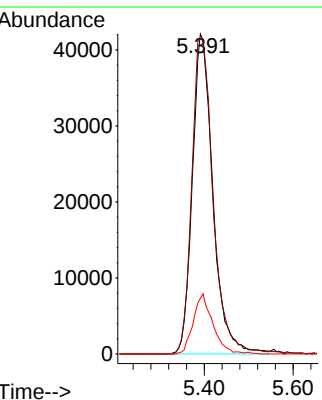
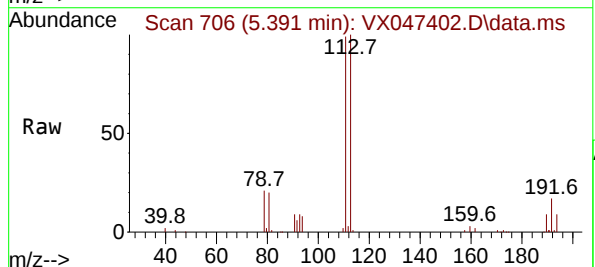
Tgt Ion:113 Resp: 135590

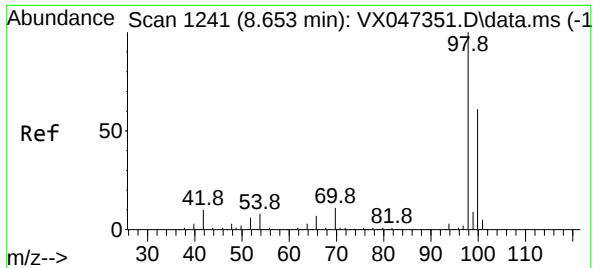
Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.2

192 17.8 14.1 21.1





#50

Toluene-d8

Concen: 49.512 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

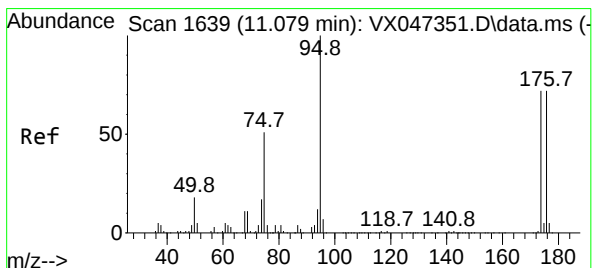
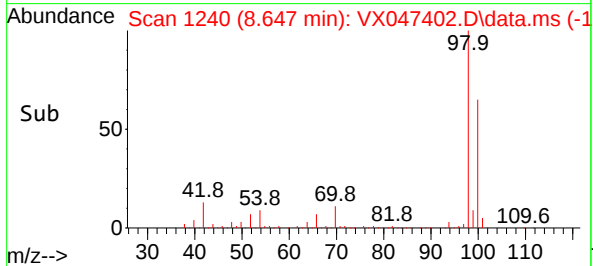
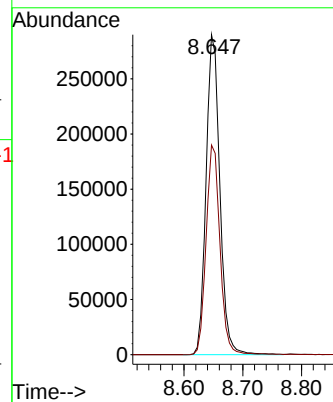
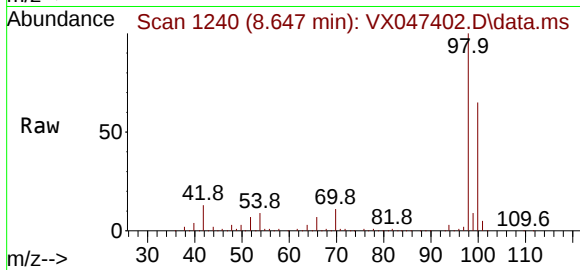
VX0819WBL01

Tgt Ion: 98 Resp: 471489

Ion Ratio Lower Upper

98 100

100 65.8 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 56.138 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

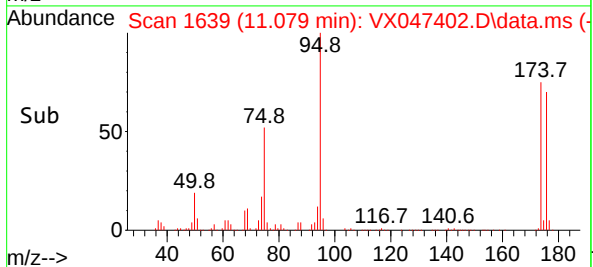
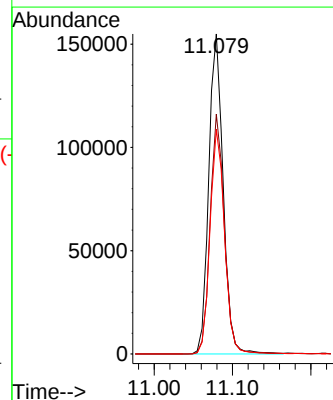
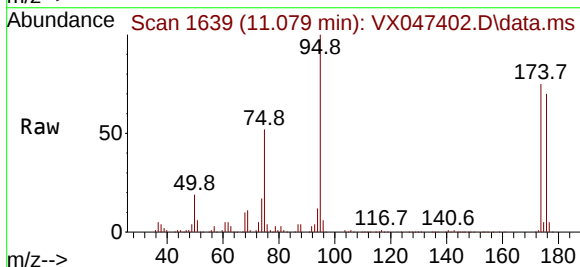
Tgt Ion: 95 Resp: 197272

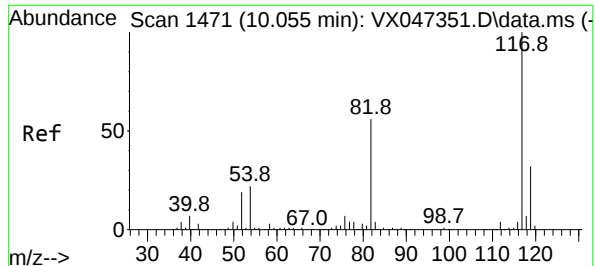
Ion Ratio Lower Upper

95 100

174 74.0 0.0 148.0

176 70.8 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

Instrument :

MSVOA_X

ClientSampleId :

VX0819WBL01

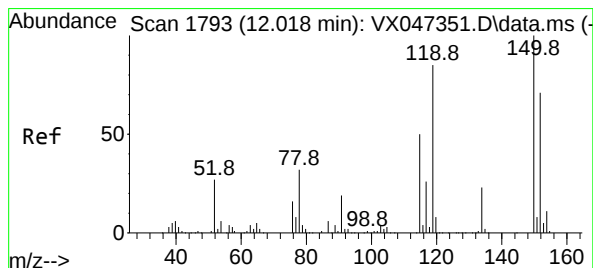
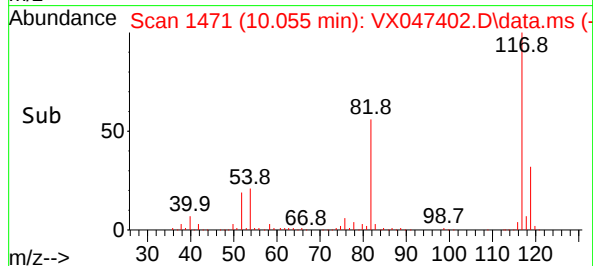
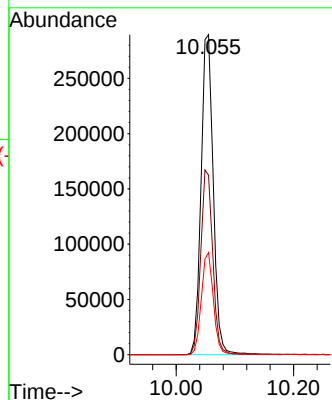
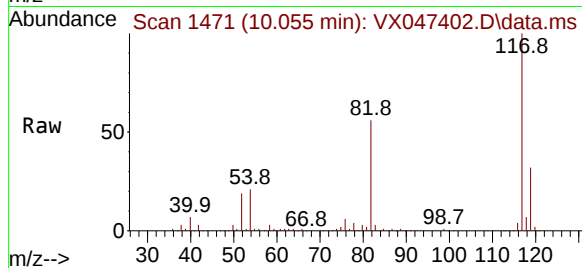
Tgt Ion:117 Resp: 416324

Ion Ratio Lower Upper

117 100

82 56.1 45.0 67.4

119 31.9 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047402.D

Acq: 19 Aug 2025 10:55

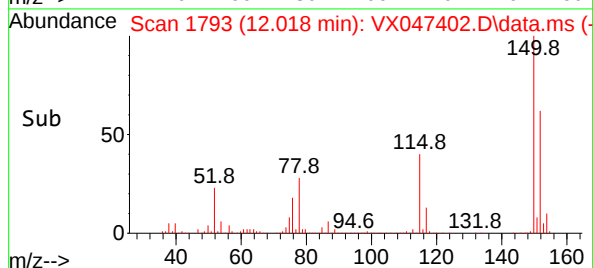
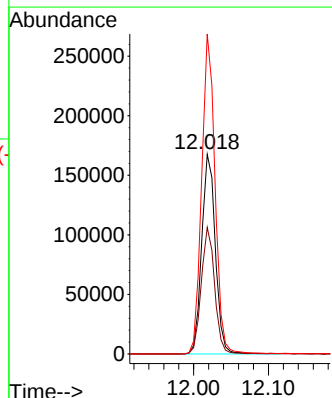
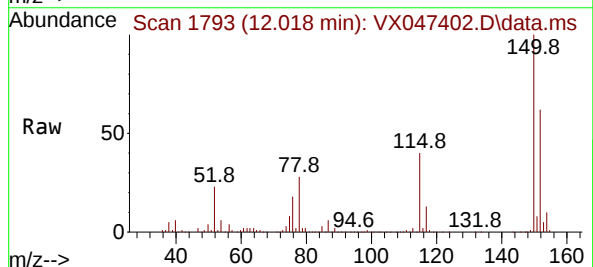
Tgt Ion:152 Resp: 212865

Ion Ratio Lower Upper

152 100

115 61.9 44.6 133.8

150 156.7 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047457.D
 Acq On : 21 Aug 2025 10:24
 Operator : JC/MD
 Sample : VX0821WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBL01

A
B
C
D
E
F
G
H
I
J

Quant Time: Aug 22 03:39:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	216518	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	445927	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	448054	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	231897	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	173844	57.370	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	114.740%
35) Dibromofluoromethane	5.397	113	141661	48.948	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.900%
50) Toluene-d8	8.647	98	503800	48.703	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.400%
62) 4-Bromofluorobenzene	11.079	95	212116	55.568	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.140%

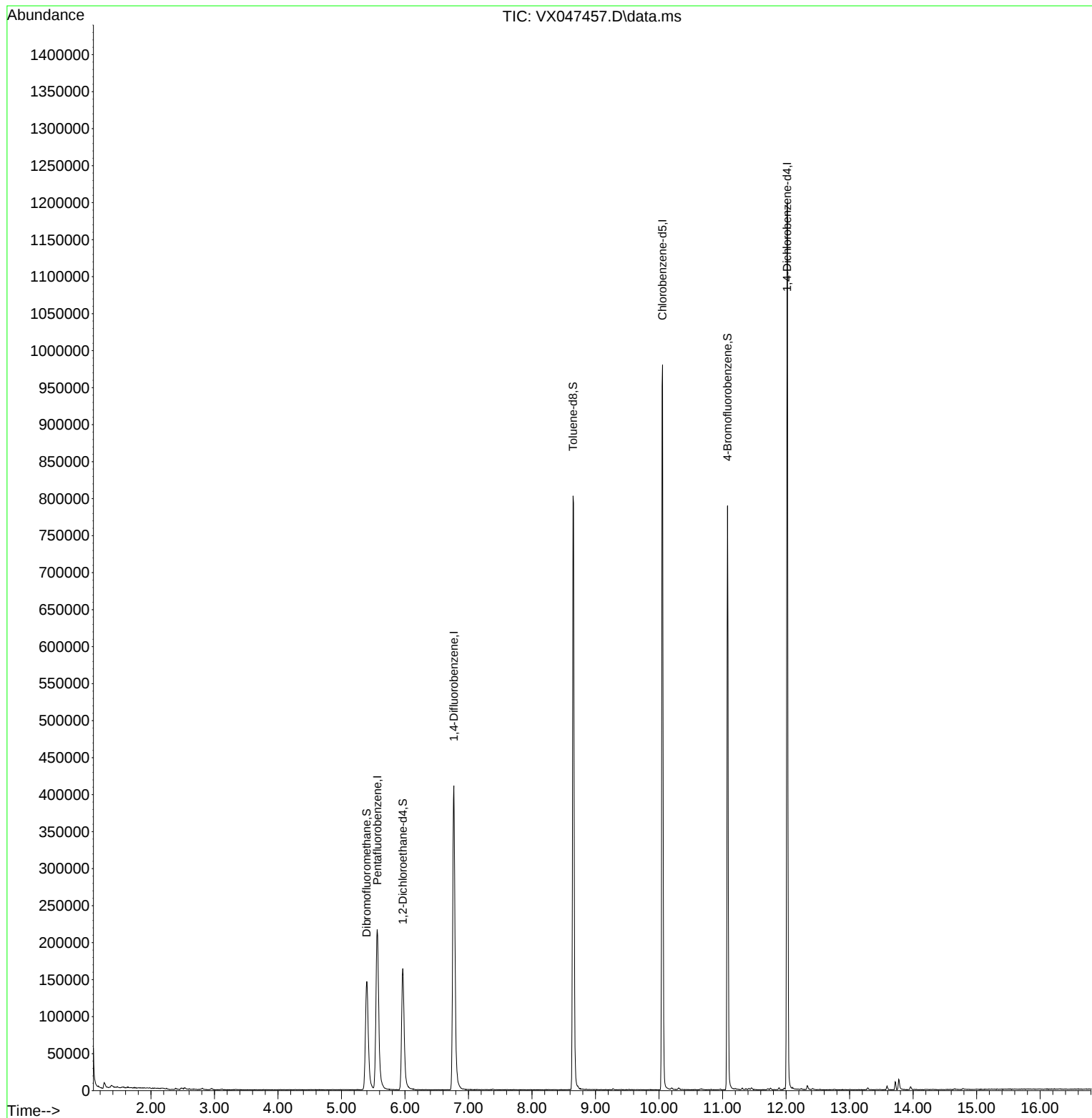
Target Compounds	Qvalue

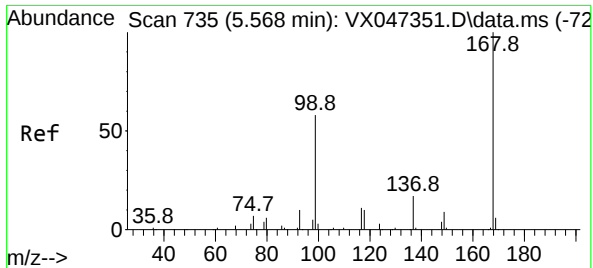
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047457.D
Acq On : 21 Aug 2025 10:24
Operator : JC/MD
Sample : VX0821WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBL01

Quant Time: Aug 22 03:39:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

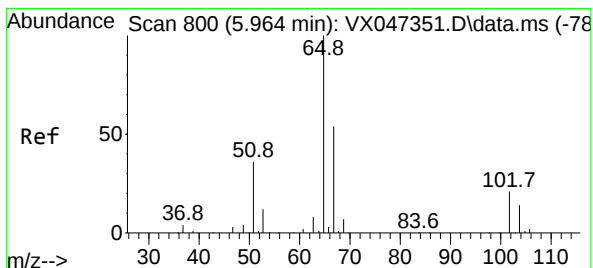
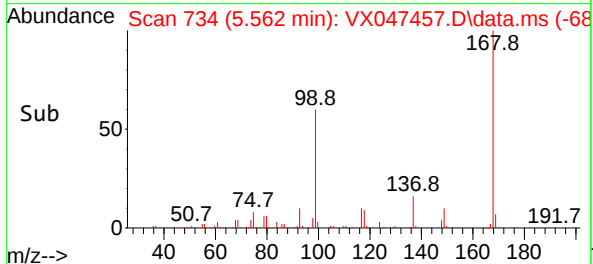
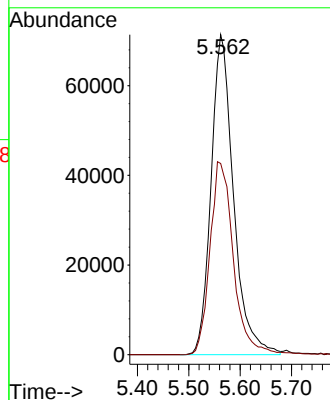
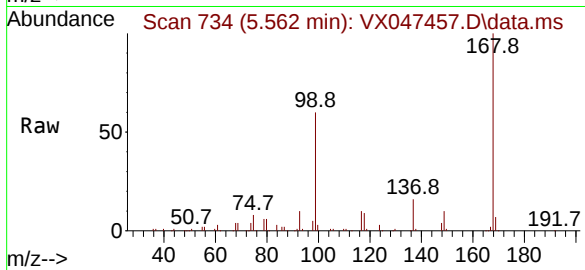




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047457.D
Acq: 21 Aug 2025 10:24

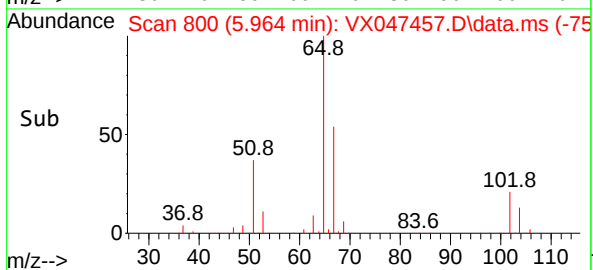
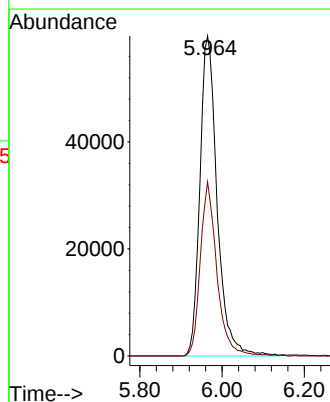
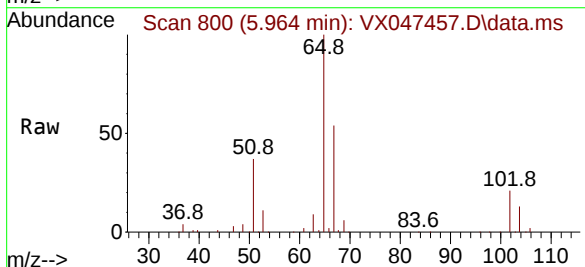
Instrument :
MSVOA_X
ClientSampleId :
VX0821WBL01

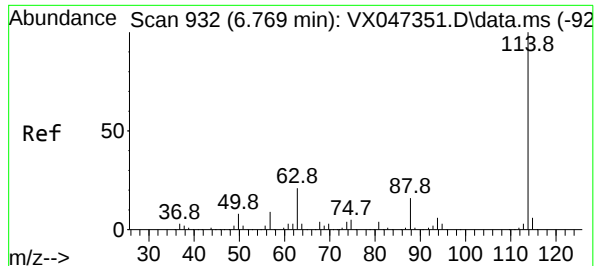
Tgt Ion:168 Resp: 216518
Ion Ratio Lower Upper
168 100
99 59.8 47.9 71.9



#33
1,2-Dichloroethane-d4
Concen: 57.370 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047457.D
Acq: 21 Aug 2025 10:24

Tgt Ion: 65 Resp: 173844
Ion Ratio Lower Upper
65 100
67 52.5 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047457.D

Acq: 21 Aug 2025 10:24

Instrument :

MSVOA_X

ClientSampleId :

VX0821WBL01

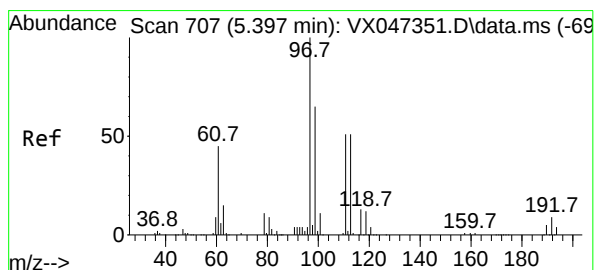
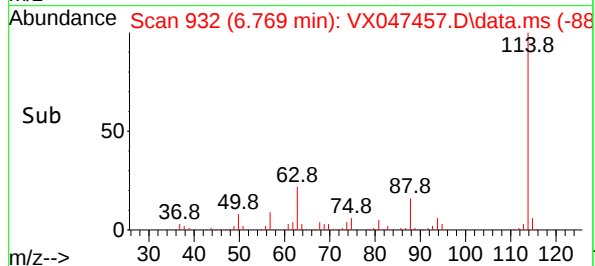
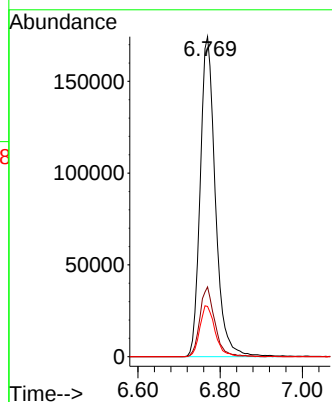
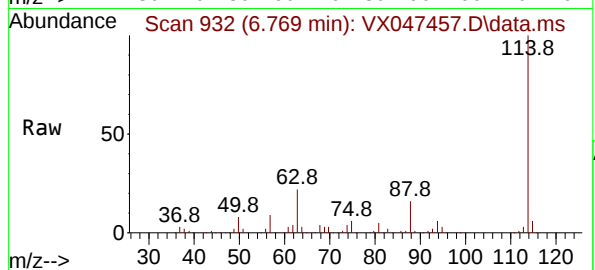
Tgt Ion:114 Resp: 445927

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.4

88 15.7 0.0 33.0



#35

Dibromofluoromethane

Concen: 48.948 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047457.D

Acq: 21 Aug 2025 10:24

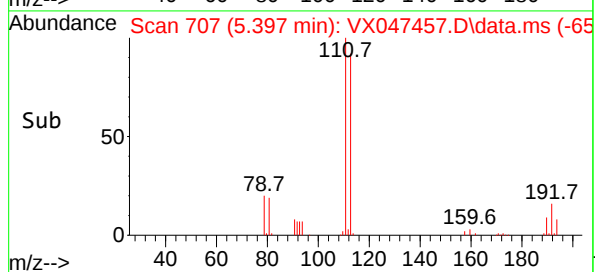
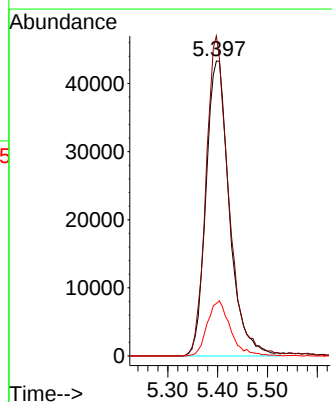
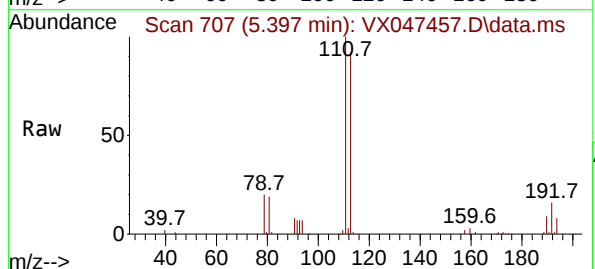
Tgt Ion:113 Resp: 141661

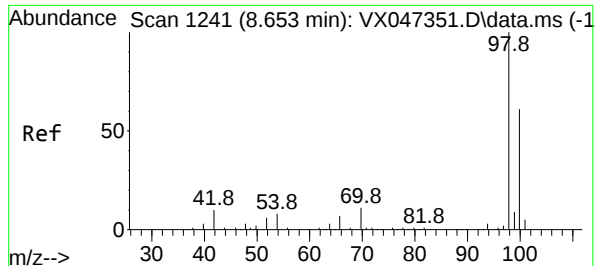
Ion Ratio Lower Upper

113 100

111 104.7 81.4 122.2

192 18.4 14.1 21.1





#50

Toluene-d8

Concen: 48.703 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047457.D

Acq: 21 Aug 2025 10:24

Instrument :

MSVOA_X

ClientSampleId :

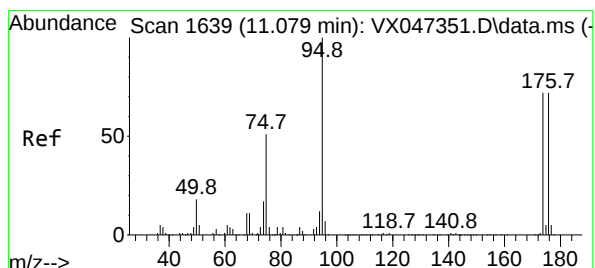
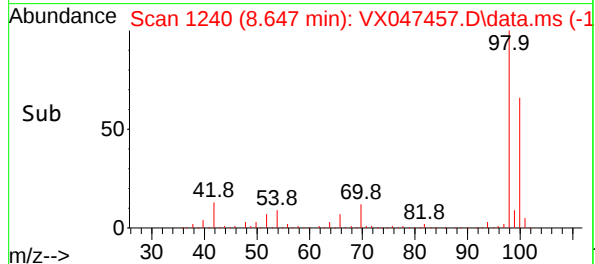
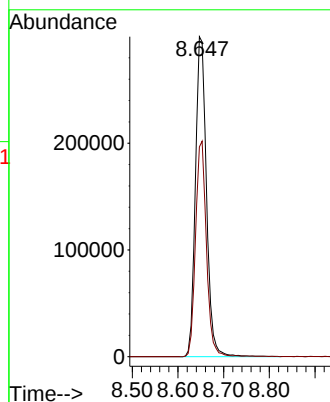
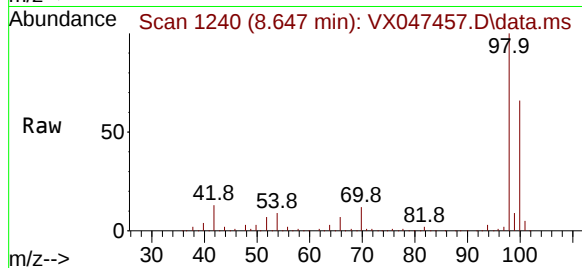
VX0821WBL01

Tgt Ion: 98 Resp: 503800

Ion Ratio Lower Upper

98 100

100 66.3 53.9 80.9



#62

4-Bromofluorobenzene

Concen: 55.568 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047457.D

Acq: 21 Aug 2025 10:24

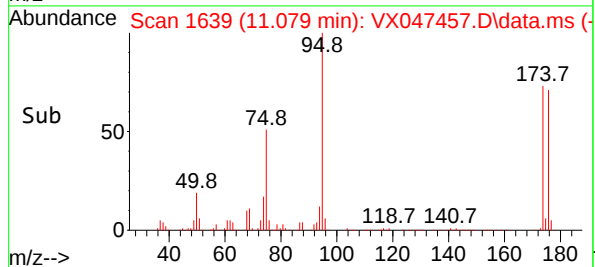
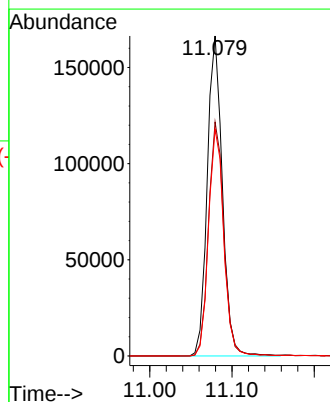
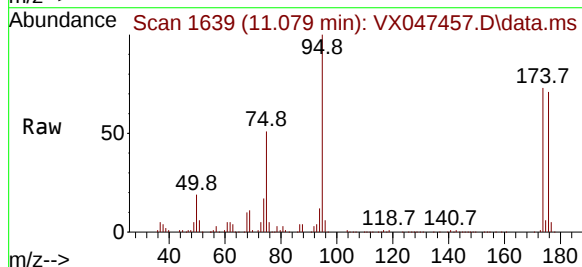
Tgt Ion: 95 Resp: 212116

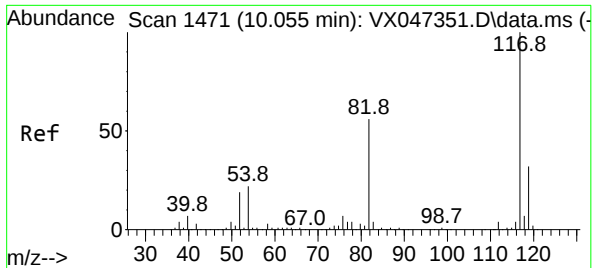
Ion Ratio Lower Upper

95 100

174 74.2 0.0 148.0

176 71.7 0.0 145.4

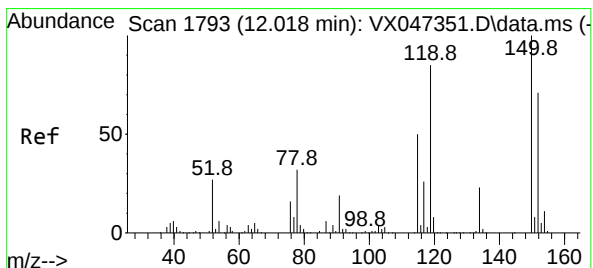
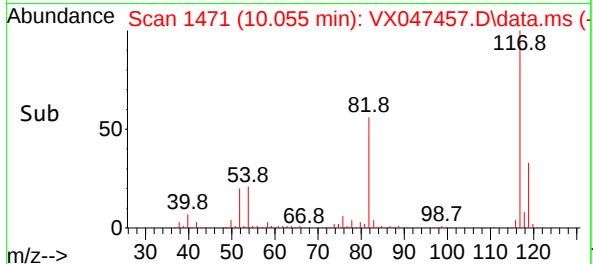
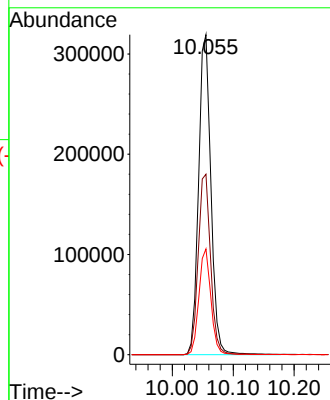
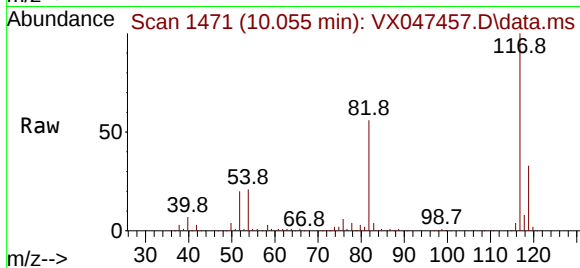




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047457.D
Acq: 21 Aug 2025 10:24

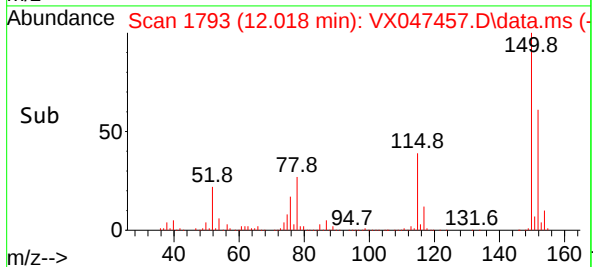
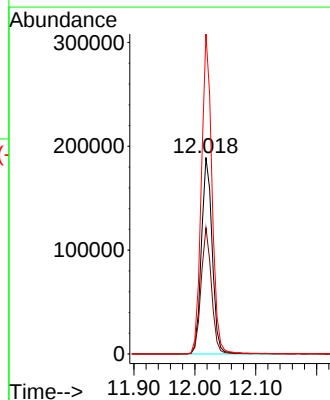
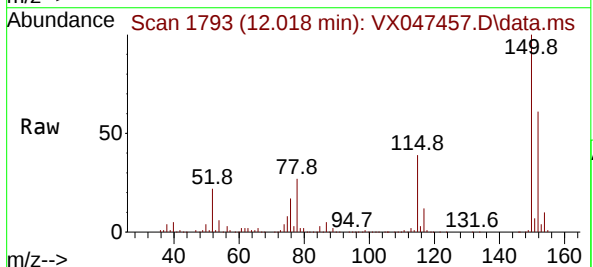
Instrument :
MSVOA_X
ClientSampleId :
VX0821WBL01

Tgt Ion:117 Resp: 448054
Ion Ratio Lower Upper
117 100
82 56.4 45.0 67.4
119 33.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047457.D
Acq: 21 Aug 2025 10:24

Tgt Ion:152 Resp: 231897
Ion Ratio Lower Upper
152 100
115 62.1 44.6 133.8
150 159.9 0.0 349.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047403.D
 Acq On : 19 Aug 2025 11:55
 Operator : JC/MD
 Sample : VX0819WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:13:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	225610	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	400778	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	370967	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189862	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.958	65	171357	54.270	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 108.540%	
35) Dibromofluoromethane	5.391	113	135576	52.123	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 104.240%	
50) Toluene-d8	8.647	98	470012	50.555	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 101.120%	
62) 4-Bromofluorobenzene	11.079	95	181013	52.762	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 105.520%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	47669	16.575	ug/l	100
3) Chloromethane	1.313	50	44596	17.237	ug/l	98
4) Vinyl Chloride	1.392	62	53957	16.616	ug/l	98
5) Bromomethane	1.630	94	23833	18.170	ug/l	82
6) Chloroethane	1.709	64	34734	17.482	ug/l	98
7) Trichlorofluoromethane	1.904	101	78843	16.414	ug/l	94
8) Diethyl Ether	2.142	74	31787	18.794	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.343	101	46101	16.545	ug/l	99
10) Methyl Iodide	2.471	142	67548	14.146	ug/l	98
11) Tert butyl alcohol	2.959	59	27543	100.272	ug/l	99
12) 1,1-Dichloroethene	2.337	96	49153	17.304	ug/l	97
13) Acrolein	2.252	56	49678	85.675	ug/l	98
14) Allyl chloride	2.678	41	88890	18.017	ug/l	98
15) Acrylonitrile	3.081	53	129576	97.623	ug/l	99
16) Acetone	2.386	43	134660	113.461	ug/l	99
17) Carbon Disulfide	2.526	76	140642	16.407	ug/l	100
18) Methyl Acetate	2.715	43	59381	19.307	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165987	19.208	ug/l	99
20) Methylene Chloride	2.800	84	59628	18.973	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	53480	17.738	ug/l	95
22) Diisopropyl ether	3.770	45	188286	19.306	ug/l	94
23) Vinyl Acetate	3.733	43	775713	97.042	ug/l	98
24) 1,1-Dichloroethane	3.623	63	102305	18.559	ug/l	97
25) 2-Butanone	4.562	43	164408	105.771	ug/l	98
26) 2,2-Dichloropropane	4.483	77	76816	18.463	ug/l	98
27) cis-1,2-Dichloroethene	4.501	96	65115	18.543	ug/l	99
28) Bromochloromethane	4.904	49	52508	22.891	ug/l	96
29) Tetrahydrofuran	5.019	42	97079	96.629	ug/l	96
30) Chloroform	5.099	83	106302	18.896	ug/l	97
31) Cyclohexane	5.477	56	84972	16.722	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	86840	17.934	ug/l	98
36) 1,1-Dichloropropene	5.702	75	69481	16.922	ug/l	99
37) Ethyl Acetate	4.715	43	70075	16.439	ug/l	96
38) Carbon Tetrachloride	5.684	117	75969	16.931	ug/l	98
39) Methylcyclohexane	7.385	83	77886	15.207	ug/l	97
40) Benzene	6.044	78	220693	17.957	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047403.D
 Acq On : 19 Aug 2025 11:55
 Operator : JC/MD
 Sample : VX0819WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBS01

Quant Time: Aug 19 12:13:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
 Supervised By :Mahesh Dadoda 08/20/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	35045	19.496	ug/l	92
42) 1,2-Dichloroethane	6.092	62	81344	18.686	ug/l	99
43) Isopropyl Acetate	6.348	43	110451	18.037	ug/l	99
44) Trichloroethene	7.129	130	54266	17.244	ug/l	99
45) 1,2-Dichloropropane	7.434	63	56455	18.336	ug/l	98
46) Dibromomethane	7.580	93	41245	18.452	ug/l	98
47) Bromodichloromethane	7.824	83	84911	18.324	ug/l	95
48) Methyl methacrylate	7.696	41	58149	18.294	ug/l	98
49) 1,4-Dioxane	7.690	88	11911	385.469	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	337359	95.733	ug/l	98
52) Toluene	8.720	92	137617	18.121	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	75672	18.711	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	85316	18.637	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	54306	18.834	ug/l	100
56) Ethyl methacrylate	9.116	69	76225	17.930	ug/l	96
57) 1,3-Dichloropropane	9.305	76	94506	19.235	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.238	63	194420	100.929	ug/l	98
59) 2-Hexanone	9.433	43	237159	97.292	ug/l	100
60) Dibromochloromethane	9.519	129	64471	18.814	ug/l	100
61) 1,2-Dibromoethane	9.610	107	55618	18.705	ug/l	99
64) Tetrachloroethene	9.269	164	44832	16.708	ug/l	98
65) Chlorobenzene	10.079	112	155025	17.585	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	53110	17.822	ug/l	99
67) Ethyl Benzene	10.189	91	259370	17.094	ug/l	99
68) m/p-Xylenes	10.299	106	198745	35.129	ug/l	100
69) o-Xylene	10.640	106	95777	17.591	ug/l	99
70) Styrene	10.653	104	168799	18.349	ug/l	99
71) Bromoform	10.799	173	40177	17.946	ug/l #	99
73) Isopropylbenzene	10.957	105	247370	16.649	ug/l	100
74) N-amyl acetate	10.842	43	100954	17.893	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	78682	18.037	ug/l	97
76) 1,2,3-Trichloropropane	11.238	75	57347m	16.468	ug/l	
77) Bromobenzene	11.195	156	63986	17.636	ug/l	98
78) n-propylbenzene	11.299	91	295566	16.657	ug/l	100
79) 2-Chlorotoluene	11.360	91	182492	17.013	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	206597	16.900	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	10138	18.529	ug/l	97
82) 4-Chlorotoluene	11.451	91	216373	17.112	ug/l	100
83) tert-Butylbenzene	11.713	119	203328	16.671	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	214157	17.518	ug/l	100
85) sec-Butylbenzene	11.890	105	254977	16.867	ug/l	100
86) p-Isopropyltoluene	12.006	119	214549	16.772	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	118907	17.156	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	122086	17.126	ug/l	99
89) n-Butylbenzene	12.329	91	197431	16.594	ug/l	99
90) Hexachloroethane	12.536	117	35860	15.980	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	115308	17.527	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14165	16.791	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	73210	16.600	ug/l	99
94) Hexachlorobutadiene	13.719	225	25313	16.124	ug/l	98
95) Naphthalene	13.774	128	217150	17.229	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	71038	17.088	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047403.D
Acq On : 19 Aug 2025 11:55
Operator : JC/MD
Sample : VX0819WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 19 12:13:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

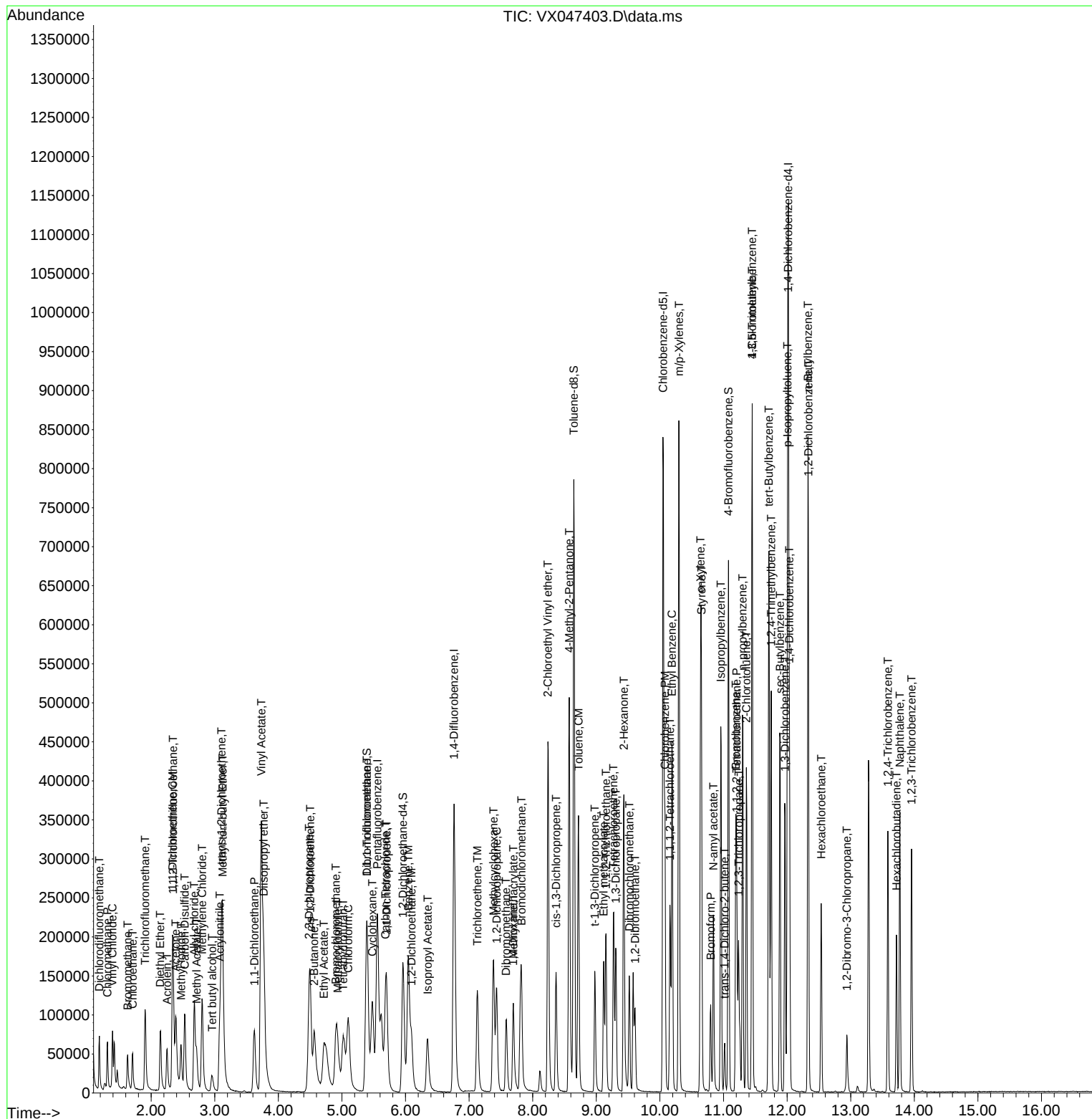
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047467.D
 Acq On : 21 Aug 2025 14:07
 Operator : JC/MD
 Sample : VX0821WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS02

Quant Time: Aug 22 03:46:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.562	168	219757	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	395822	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	370697	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	193487	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	176124	57.266	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 114.540%			
35) Dibromofluoromethane	5.397	113	132673	51.645	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.300%			
50) Toluene-d8	8.653	98	460935	50.200	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.400%			
62) 4-Bromofluorobenzene	11.079	95	188500	55.632	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 111.260%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	52136	18.611	ug/l	96
3) Chloromethane	1.313	50	49473	19.631	ug/l	99
4) Vinyl Chloride	1.392	62	61123	19.324	ug/l	100
5) Bromomethane	1.630	94	25522	19.976	ug/l	97
6) Chloroethane	1.709	64	39889	20.611	ug/l	100
7) Trichlorofluoromethane	1.904	101	91456	19.547	ug/l	99
8) Diethyl Ether	2.148	74	36285	22.025	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	53527	19.722	ug/l	98
10) Methyl Iodide	2.471	142	67680	14.551	ug/l	99
11) Tert butyl alcohol	2.959	59	30845	115.284	ug/l	99
12) 1,1-Dichloroethene	2.337	96	55363	20.009	ug/l	98
13) Acrolein	2.251	56	59011	104.481	ug/l	98
14) Allyl chloride	2.678	41	99967	20.801	ug/l	99
15) Acrylonitrile	3.081	53	143612	111.079	ug/l	99
16) Acetone	2.392	43	118906	102.856	ug/l	96
17) Carbon Disulfide	2.526	76	149558	17.912	ug/l	100
18) Methyl Acetate	2.715	43	72122	24.075	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	186862	22.199	ug/l	99
20) Methylene Chloride	2.806	84	67266	21.974	ug/l	94
21) trans-1,2-Dichloroethene	3.105	96	60380	20.560	ug/l	98
22) Diisopropyl ether	3.769	45	221856	23.355	ug/l	85
23) Vinyl Acetate	3.733	43	864017	110.968	ug/l	100
24) 1,1-Dichloroethane	3.623	63	117074	21.804	ug/l	98
25) 2-Butanone	4.574	43	178447	117.861	ug/l	99
26) 2,2-Dichloropropane	4.495	77	80184	19.786	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	74958	21.915	ug/l	98
28) Bromochloromethane	4.916	49	55023	24.626	ug/l	100
29) Tetrahydrofuran	5.031	42	108635	111.012	ug/l	98
30) Chloroform	5.105	83	123736	22.580	ug/l	94
31) Cyclohexane	5.483	56	97308	19.660	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	97000	20.565	ug/l	98
36) 1,1-Dichloropropene	5.708	75	80408	19.828	ug/l	99
37) Ethyl Acetate	4.727	43	77407	18.387	ug/l	98
38) Carbon Tetrachloride	5.696	117	86344	19.484	ug/l	95
39) Methylcyclohexane	7.385	83	89674	17.728	ug/l	90
40) Benzene	6.050	78	250369	20.627	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
 Data File : VX047467.D
 Acq On : 21 Aug 2025 14:07
 Operator : JC/MD
 Sample : VX0821WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0821WBS02

Quant Time: Aug 22 03:46:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 08/22/2025
 Supervised By : Mahesh Dadoda 08/22/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	40042	22.555	ug/l	92
42) 1,2-Dichloroethane	6.098	62	92470	21.507	ug/l	100
43) Isopropyl Acetate	6.348	43	125855	20.809	ug/l	100
44) Trichloroethene	7.135	130	62561	20.129	ug/l	99
45) 1,2-Dichloropropane	7.433	63	64285	21.141	ug/l	100
46) Dibromomethane	7.586	93	45974	20.825	ug/l	99
47) Bromodichloromethane	7.824	83	95100	20.779	ug/l	100
48) Methyl methacrylate	7.696	41	66527	21.192	ug/l	97
49) 1,4-Dioxane	7.690	88	11979	392.523	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	381590	109.641	ug/l	97
52) Toluene	8.720	92	157838	21.044	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	83536	20.914	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	95182	21.053	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	62404	21.913	ug/l	99
56) Ethyl methacrylate	9.116	69	89883	21.408	ug/l	98
57) 1,3-Dichloropropane	9.311	76	106790	22.007	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	184544	97.327	ug/l	99
59) 2-Hexanone	9.433	43	254945	105.899	ug/l	100
60) Dibromochloromethane	9.518	129	71992	21.272	ug/l	99
61) 1,2-Dibromoethane	9.610	107	61680	21.004	ug/l	99
64) Tetrachloroethene	9.275	164	48854	18.220	ug/l	95
65) Chlorobenzene	10.079	112	175397	19.911	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.165	131	60389	20.279	ug/l	98
67) Ethyl Benzene	10.195	91	298088	19.660	ug/l	98
68) m/p-Xylenes	10.299	106	227285	40.202	ug/l	99
69) o-Xylene	10.640	106	111463	20.487	ug/l	98
70) Styrene	10.652	104	191132	20.792	ug/l	100
71) Bromoform	10.799	173	45830	20.486	ug/l #	97
73) Isopropylbenzene	10.963	105	285672	18.867	ug/l	100
74) N-amyl acetate	10.841	43	109541	19.051	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	88882	19.993	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	68907m	19.417	ug/l	
77) Bromobenzene	11.195	156	71647	19.378	ug/l	99
78) n-propylbenzene	11.305	91	337183	18.646	ug/l	99
79) 2-Chlorotoluene	11.366	91	209103	19.128	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	235770	18.925	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	11188	19.413	ug/l	89
82) 4-Chlorotoluene	11.451	91	244430	18.969	ug/l	100
83) tert-Butylbenzene	11.713	119	235583	18.954	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	240110	19.273	ug/l	99
85) sec-Butylbenzene	11.890	105	288712	18.741	ug/l	100
86) p-Isopropyltoluene	12.006	119	244146	18.728	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	132909	18.817	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	134397	18.500	ug/l	98
89) n-Butylbenzene	12.329	91	222499	18.350	ug/l	99
90) Hexachloroethane	12.536	117	41201	18.016	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	128956	19.235	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	16504	19.197	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	81841	18.209	ug/l	99
94) Hexachlorobutadiene	13.725	225	27303	17.066	ug/l	97
95) Naphthalene	13.774	128	261329	20.346	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	77394	18.268	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082125\
Data File : VX047467.D
Acq On : 21 Aug 2025 14:07
Operator : JC/MD
Sample : VX0821WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0821WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/22/2025
Supervised By :Mahesh Dadoda 08/22/2025

Quant Time: Aug 22 03:46:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

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

Manual Integrations

Quant Time: Aug 22 03:46:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047405.D
 Acq On : 19 Aug 2025 12:37
 Operator : JC/MD
 Sample : VX0819WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	228746	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	395063	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	371284	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	189413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	173401	54.165	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 108.320%			
35) Dibromofluoromethane	5.397	113	133228	51.961	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.920%			
50) Toluene-d8	8.653	98	464961	50.736	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 101.480%			
62) 4-Bromofluorobenzene	11.079	95	181529	53.678	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.360%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	48167	16.518	ug/l	99
3) Chloromethane	1.313	50	47416	18.076	ug/l	95
4) Vinyl Chloride	1.392	62	54098	16.431	ug/l #	64
5) Bromomethane	1.630	94	18415	13.847	ug/l	98
6) Chloroethane	1.709	64	40053	19.883	ug/l	99
7) Trichlorofluoromethane	1.904	101	79190	16.260	ug/l	94
8) Diethyl Ether	2.148	74	31587	18.420	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	47865	16.943	ug/l	100
10) Methyl Iodide	2.471	142	60898	12.579	ug/l	96
11) Tert butyl alcohol	2.965	59	30718	110.297	ug/l	98
12) 1,1-Dichloroethene	2.337	96	47603	16.528	ug/l	95
13) Acrolein	2.251	56	49016	83.374	ug/l	99
14) Allyl chloride	2.678	41	86456	17.283	ug/l	99
15) Acrylonitrile	3.081	53	131580	97.773	ug/l	98
16) Acetone	2.392	43	118674	98.621	ug/l	96
17) Carbon Disulfide	2.532	76	143093	16.465	ug/l	99
18) Methyl Acetate	2.715	43	63853	20.477	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	165202	18.855	ug/l	95
20) Methylene Chloride	2.806	84	58414	18.332	ug/l	98
21) trans-1,2-Dichloroethene	3.111	96	52164	17.065	ug/l	95
22) Diisopropyl ether	3.776	45	185604	18.771	ug/l	97
23) Vinyl Acetate	3.739	43	769207	94.909	ug/l	99
24) 1,1-Dichloroethane	3.629	63	100080	17.907	ug/l	97
25) 2-Butanone	4.568	43	160156	101.623	ug/l	99
26) 2,2-Dichloropropane	4.495	77	72356	17.153	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	63332	17.788	ug/l	100
28) Bromochloromethane	4.916	49	50702	21.801	ug/l	98
29) Tetrahydrofuran	5.025	42	102951	101.069	ug/l	98
30) Chloroform	5.105	83	104850	18.382	ug/l	97
31) Cyclohexane	5.483	56	81758	15.869	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	86106	17.538	ug/l	99
36) 1,1-Dichloropropene	5.708	75	66551	16.443	ug/l	98
37) Ethyl Acetate	4.727	43	75546	17.979	ug/l	98
38) Carbon Tetrachloride	5.690	117	75099	16.979	ug/l	98
39) Methylcyclohexane	7.385	83	80376	15.920	ug/l	96
40) Benzene	6.050	78	213254	17.603	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047405.D
 Acq On : 19 Aug 2025 12:37
 Operator : JC/MD
 Sample : VX0819WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0819WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 19 12:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.946	41	33732	19.037	ug/l	98
42) 1,2-Dichloroethane	6.098	62	81377	18.964	ug/l	99
43) Isopropyl Acetate	6.348	43	116749	19.341	ug/l	99
44) Trichloroethene	7.135	130	53112	17.122	ug/l	99
45) 1,2-Dichloropropane	7.433	63	55453	18.271	ug/l	99
46) Dibromomethane	7.586	93	41218	18.707	ug/l	98
47) Bromodichloromethane	7.824	83	82785	18.123	ug/l	96
48) Methyl methacrylate	7.696	41	59306	18.928	ug/l	98
49) 1,4-Dioxane	7.683	88	12842	421.610	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	351322	101.138	ug/l	98
52) Toluene	8.720	92	135282	18.071	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	74320	18.642	ug/l	99
54) cis-1,3-Dichloropropene	8.372	75	82154	18.206	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	54565	19.197	ug/l	98
56) Ethyl methacrylate	9.116	69	80828	19.288	ug/l	98
57) 1,3-Dichloropropane	9.311	76	92722	19.145	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	190782	100.511	ug/l	100
59) 2-Hexanone	9.433	43	241137	100.355	ug/l	97
60) Dibromochloromethane	9.518	129	62976	18.644	ug/l	99
61) 1,2-Dibromoethane	9.610	107	56725	19.354	ug/l	96
64) Tetrachloroethene	9.275	164	44006	16.386	ug/l	98
65) Chlorobenzene	10.079	112	150949	17.108	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	51594	17.298	ug/l	99
67) Ethyl Benzene	10.195	91	255830	16.847	ug/l	100
68) m/p-Xylenes	10.299	106	194493	34.348	ug/l	98
69) o-Xylene	10.640	106	92973	17.062	ug/l	100
70) Styrene	10.652	104	162232	17.620	ug/l	100
71) Bromoform	10.799	173	40831	18.222	ug/l #	98
73) Isopropylbenzene	10.963	105	244270	16.480	ug/l	99
74) N-amyl acetate	10.841	43	100184	17.799	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	79781	18.332	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	59679m	17.179	ug/l	
77) Bromobenzene	11.195	156	63251	17.475	ug/l	97
78) n-propylbenzene	11.305	91	293555	16.583	ug/l	100
79) 2-Chlorotoluene	11.360	91	179419	16.766	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	206343	16.919	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	9694	18.086	ug/l	93
82) 4-Chlorotoluene	11.451	91	212416	16.839	ug/l	100
83) tert-Butylbenzene	11.713	119	203047	16.688	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	208526	17.098	ug/l	99
85) sec-Butylbenzene	11.890	105	251738	16.692	ug/l	100
86) p-Isopropyltoluene	12.006	119	213521	16.732	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	118575	17.148	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	118652	16.684	ug/l	98
89) n-Butylbenzene	12.329	91	197278	16.620	ug/l	100
90) Hexachloroethane	12.536	117	36224	16.180	ug/l	96
91) 1,2-Dichlorobenzene	12.335	146	113288	17.261	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	14730	17.502	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	72411	16.457	ug/l	99
94) Hexachlorobutadiene	13.719	225	25996	16.599	ug/l	97
95) Naphthalene	13.774	128	219869	17.486	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	71446	17.227	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
Data File : VX047405.D
Acq On : 19 Aug 2025 12:37
Operator : JC/MD
Sample : VX0819WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 12:54:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025

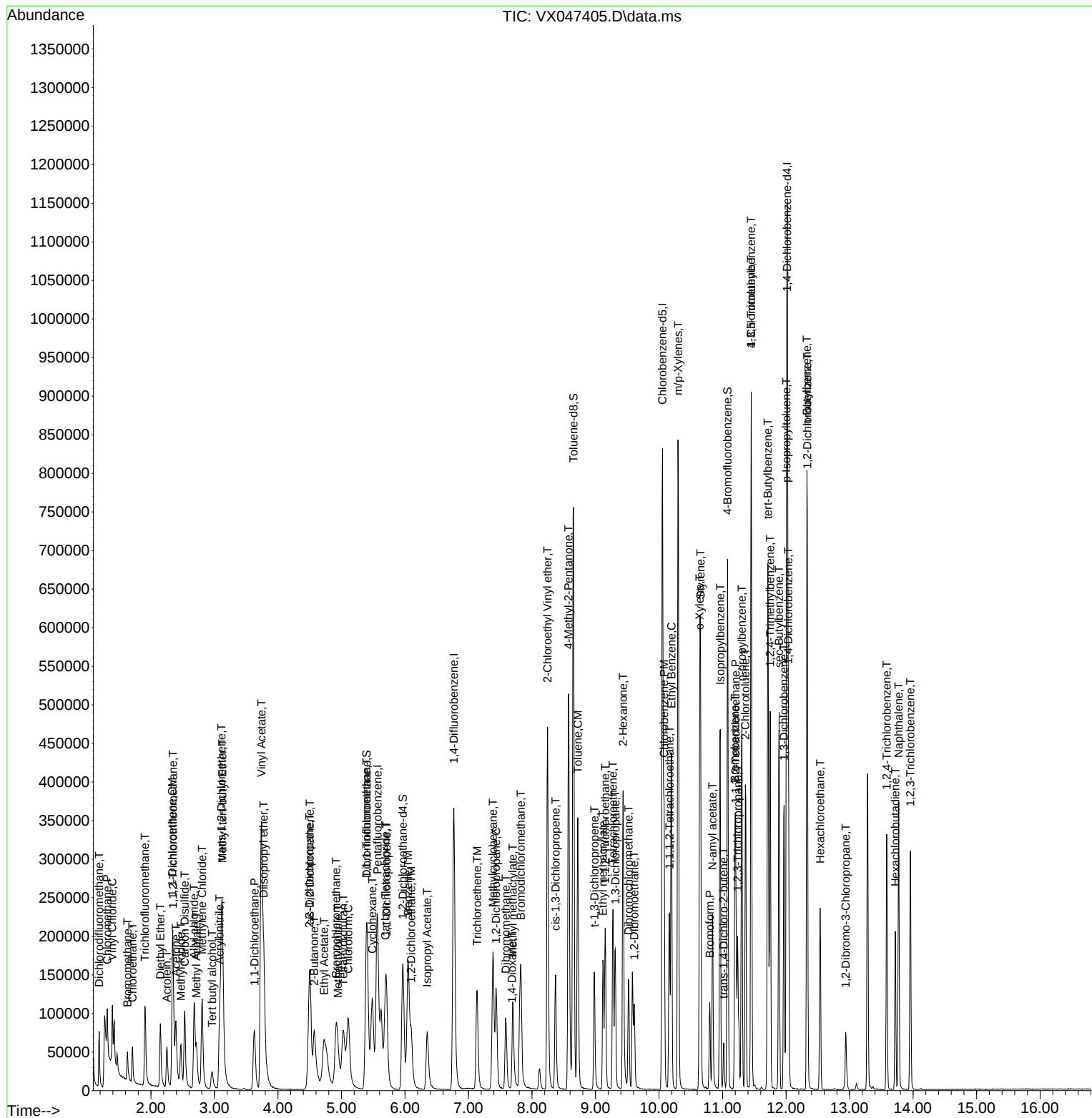
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0819WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 08/20/2025
Supervised By :Mahesh Dadoda 08/20/2025



Manual Integration Report

Sequence:	VX081525	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC005	VX047349.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	1,4-Dioxane	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC005	VX047349.D	Tetrahydrofuran	JOHN	8/18/2025 8:37:53 AM	MMDadoda	8/19/2025 1:41:03 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICC020	VX047350.D	1,4-Dioxane	JOHN	8/18/2025 8:37:58 AM	MMDadoda	8/19/2025 1:41:04 AM	Peak Integrated by Software
VSTDICCC050	VX047351.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:42:59 AM	MMDadoda	8/19/2025 1:41:07 AM	Peak Integrated by Software
VSTDICC100	VX047352.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:03 AM	MMDadoda	8/19/2025 1:41:08 AM	Peak Integrated by Software
VSTDICC150	VX047353.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:07 AM	MMDadoda	8/19/2025 1:41:10 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dichlorobenzene	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	1,4-Dioxane	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Allyl chloride	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Ethyl Acetate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX081525

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047356.D	Methacrylonitrile	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Methyl methacrylate	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICC001	VX047356.D	Tetrahydrofuran	JOHN	8/18/2025 8:43:18 AM	MMDadoda	8/19/2025 1:41:24 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDICV050	VX047357.D	1,4-Dioxane	JOHN	8/18/2025 8:43:25 AM	MMDadoda	8/19/2025 1:41:26 AM	Peak Integrated by Software
VSTDCCC050	VX047369.D	1,2,3-Trichloropropane	JOHN	8/18/2025 8:43:44 AM	MMDadoda	8/19/2025 1:41:35 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX081925

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047400.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:13 AM	MMDadoda	8/20/2025 8:57:32 AM	Peak Integrated by Software
VX0819WBS01	VX047403.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:18 AM	MMDadoda	8/20/2025 8:57:35 AM	Peak Integrated by Software
VX0819WBSD0 1	VX047405.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:23 AM	MMDadoda	8/20/2025 8:57:36 AM	Peak Integrated by Software
VSTDCCC050	VX047425.D	1,2,3-Trichloropropane	JOHN	8/20/2025 8:36:41 AM	MMDadoda	8/20/2025 8:57:39 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

Vx082125

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047455.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:18:39 AM	MMDadoda	8/22/2025 10:54:21 PM	Peak Integrated by Software
VX0821WBS02	VX047467.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:18:52 AM	MMDadoda	8/22/2025 10:54:29 PM	Peak Integrated by Software
VSTDCCC050	VX047482.D	1,2,3-Trichloropropane	JOHN	8/22/2025 9:19:36 AM	MMDadoda	8/22/2025 10:54:39 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047347.D	15 Aug 2025 08:28	JC/MD	Ok
2	VSTDIC001	VX047348.D	15 Aug 2025 09:18	JC/MD	Not Ok
3	VSTDIC005	VX047349.D	15 Aug 2025 09:40	JC/MD	Ok,M
4	VSTDIC020	VX047350.D	15 Aug 2025 10:01	JC/MD	Ok,M
5	VSTDIC050	VX047351.D	15 Aug 2025 10:22	JC/MD	Ok,M
6	VSTDIC100	VX047352.D	15 Aug 2025 10:43	JC/MD	Ok,M
7	VSTDIC150	VX047353.D	15 Aug 2025 11:05	JC/MD	Ok,M
8	IBLK	VX047354.D	15 Aug 2025 11:26	JC/MD	Ok
9	VSTDIC001	VX047355.D	15 Aug 2025 12:08	JC/MD	Not Ok
10	VSTDIC001	VX047356.D	15 Aug 2025 12:30	JC/MD	Ok,M
11	VSTDICV050	VX047357.D	15 Aug 2025 13:11	JC/MD	Ok,M
12	VX0815WBL01	VX047358.D	15 Aug 2025 13:39	JC/MD	Ok
13	VX0815MBL01	VX047359.D	15 Aug 2025 14:00	JC/MD	Ok
14	VX0815WBS01	VX047360.D	15 Aug 2025 14:21	JC/MD	Ok,M
15	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49	JC/MD	Ok,M
16	Q2880-01	VX047362.D	15 Aug 2025 15:10	JC/MD	Ok
17	Q2880-02	VX047363.D	15 Aug 2025 15:32	JC/MD	Ok
18	Q2880-03	VX047364.D	15 Aug 2025 15:53	JC/MD	Ok
19	Q2880-04	VX047365.D	15 Aug 2025 16:15	JC/MD	Ok
20	Q2886-01	VX047366.D	15 Aug 2025 16:36	JC/MD	Ok
21	Q2886-02	VX047367.D	15 Aug 2025 16:58	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2837-01	VX047368.D	15 Aug 2025 17:19	JC/MD	Ok,M
23	VSTDCCC050	VX047369.D	15 Aug 2025 17:41	JC/MD	Ok,M

M : Manual Integration

A
B
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I
J

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047399.D	19 Aug 2025 08:38	JC/MD	Ok
2	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	JC/MD	Ok,M
3	VX0819MBL01	VX047401.D	19 Aug 2025 10:05	JC/MD	Ok
4	VX0819WBL01	VX047402.D	19 Aug 2025 10:55	JC/MD	Ok
5	VX0819WBS01	VX047403.D	19 Aug 2025 11:55	JC/MD	Ok,M
6	Q2815-11	VX047404.D	19 Aug 2025 12:16	JC/MD	Ok
7	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37	JC/MD	Ok,M
8	Q2815-12	VX047406.D	19 Aug 2025 12:59	JC/MD	Ok
9	Q2815-16RE	VX047407.D	19 Aug 2025 13:20	JC/MD	Confirms
10	Q2815-24	VX047408.D	19 Aug 2025 13:41	JC/MD	Ok
11	Q2815-26	VX047409.D	19 Aug 2025 14:07	JC/MD	ReRun
12	Q2841-01	VX047410.D	19 Aug 2025 14:29	JC/MD	Ok
13	Q2841-01DL	VX047411.D	19 Aug 2025 14:50	JC/MD	Not Ok
14	Q2815-20	VX047412.D	19 Aug 2025 15:11	JC/MD	Ok
15	Q2815-21	VX047413.D	19 Aug 2025 15:32	JC/MD	ReRun
16	Q2815-22	VX047414.D	19 Aug 2025 15:53	JC/MD	ReRun
17	Q2815-23	VX047415.D	19 Aug 2025 16:14	JC/MD	Ok
18	Q2869-07	VX047416.D	19 Aug 2025 16:36	JC/MD	Ok
19	Q2869-10	VX047417.D	19 Aug 2025 16:57	JC/MD	Ok
20	Q2869-11	VX047418.D	19 Aug 2025 17:18	JC/MD	Ok
21	Q2815-18	VX047419.D	19 Aug 2025 17:39	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

22	Q2815-19	VX047420.D	19 Aug 2025 18:00	JC/MD	Ok
23	Q2869-01	VX047421.D	19 Aug 2025 18:22	JC/MD	Ok
24	VX0819MBS01	VX047422.D	19 Aug 2025 18:43	JC/MD	Ok,M
25	Q2844-09DL	VX047423.D	19 Aug 2025 19:04	JC/MD	Ok
26	Q2884-03DL	VX047424.D	19 Aug 2025 19:25	JC/MD	Ok
27	VSTDCCC050	VX047425.D	19 Aug 2025 19:47	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX082125

Review By	John Carlone	Review On	8/22/2025 9:26:16 AM
Supervise By	Maresh Dadoda	Supervise On	8/22/2025 10:55:07 PM
SubDirectory	VX082125	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135197		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135198,VP135199		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047454.D	21 Aug 2025 07:58	JC/MD	Ok
2	VSTDCCC050	VX047455.D	21 Aug 2025 09:35	JC/MD	Ok,M
3	VX0821MBL01	VX047456.D	21 Aug 2025 10:03	JC/MD	Ok
4	VX0821WBL01	VX047457.D	21 Aug 2025 10:24	JC/MD	Ok
5	VX0821WBS01	VX047458.D	21 Aug 2025 10:50	JC/MD	Not Ok
6	VX0821WBSD01	VX047459.D	21 Aug 2025 11:18	JC/MD	Not Ok
7	Q2869-04	VX047460.D	21 Aug 2025 11:39	JC/MD	Dilution
8	Q2869-05	VX047461.D	21 Aug 2025 12:00	JC/MD	Ok
9	Q2869-03	VX047462.D	21 Aug 2025 12:22	JC/MD	Ok
10	Q2900-02DL	VX047463.D	21 Aug 2025 12:43	JC/MD	Ok
11	Q2900-03DL	VX047464.D	21 Aug 2025 13:04	JC/MD	Ok
12	Q2900-05DL	VX047465.D	21 Aug 2025 13:25	JC/MD	Ok
13	Q2900-08	VX047466.D	21 Aug 2025 13:46	JC/MD	Ok
14	VX0821WBS02	VX047467.D	21 Aug 2025 14:07	JC/MD	Ok,M
15	Q2869-04DL	VX047468.D	21 Aug 2025 14:28	JC/MD	Ok
16	Q2900-07RE	VX047469.D	21 Aug 2025 14:49	JC/MD	Confirms
17	VX0821WBSD02	VX047470.D	21 Aug 2025 15:10	JC/MD	Ok,M
18	Q2900-06	VX047471.D	21 Aug 2025 15:31	JC/MD	Ok
19	Q2903-01	VX047472.D	21 Aug 2025 15:53	JC/MD	Ok
20	Q2903-02	VX047473.D	21 Aug 2025 16:14	JC/MD	ReRun
21	Q2900-04	VX047474.D	21 Aug 2025 16:35	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX082125

Review By	John Carlone	Review On	8/22/2025 9:26:16 AM
Supervise By	Mahesh Dadoda	Supervise On	8/22/2025 10:55:07 PM
SubDirectory	VX082125	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135197		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135198,VP135199		

22	Q2903-03	VX047475.D	21 Aug 2025 16:56	JC/MD	Ok,M
23	Q2903-04	VX047476.D	21 Aug 2025 17:17	JC/MD	Ok
24	Q2903-05MS	VX047477.D	21 Aug 2025 17:39	JC/MD	Not Ok
25	Q2903-06MSD	VX047478.D	21 Aug 2025 18:00	JC/MD	Not Ok
26	Q2903-07	VX047479.D	21 Aug 2025 18:21	JC/MD	Dilution
27	Q2903-08	VX047480.D	21 Aug 2025 18:42	JC/MD	Ok
28	Q2903-09	VX047481.D	21 Aug 2025 19:03	JC/MD	ReRun
29	VSTDCCC050	VX047482.D	21 Aug 2025 19:25	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Mahesh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047347.D	15 Aug 2025 08:28		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX047348.D	15 Aug 2025 09:18	Not used	JC/MD	Not Ok
3	VSTDIC005	VSTDIC005	VX047349.D	15 Aug 2025 09:40	LR-58,81	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX047350.D	15 Aug 2025 10:01		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX047351.D	15 Aug 2025 10:22		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX047352.D	15 Aug 2025 10:43		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX047353.D	15 Aug 2025 11:05		JC/MD	Ok,M
8	IBLK	IBLK	VX047354.D	15 Aug 2025 11:26		JC/MD	Ok
9	VSTDIC001	VSTDIC001	VX047355.D	15 Aug 2025 12:08	Not used	JC/MD	Not Ok
10	VSTDIC001	VSTDIC001	VX047356.D	15 Aug 2025 12:30		JC/MD	Ok,M
11	VSTDICV050	ICVVX081525	VX047357.D	15 Aug 2025 13:11		JC/MD	Ok,M
12	VX0815WBL01	VX0815WBL01	VX047358.D	15 Aug 2025 13:39		JC/MD	Ok
13	VX0815MBL01	VX0815MBL01	VX047359.D	15 Aug 2025 14:00		JC/MD	Ok
14	VX0815WBS01	VX0815WBS01	VX047360.D	15 Aug 2025 14:21		JC/MD	Ok,M
15	VX0815WBSD01	VX0815WBSD01	VX047361.D	15 Aug 2025 14:49		JC/MD	Ok,M
16	Q2880-01	STORAGE-BLANK-SO	VX047362.D	15 Aug 2025 15:10	vial A pH<2	JC/MD	Ok
17	Q2880-02	STORAGE-BLANK-WA	VX047363.D	15 Aug 2025 15:32	vial A pH<2	JC/MD	Ok
18	Q2880-03	STORAGE-BLANK-WA	VX047364.D	15 Aug 2025 15:53	vial A pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081525

Review By	John Carlone	Review On	8/18/2025 8:45:53 AM
Supervise By	Maresh Dadoda	Supervise On	8/19/2025 1:41:47 AM
SubDirectory	VX081525	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP135148		
Initial Calibration Stds	VP135153,VP135154,VP135155,VP135156,VP135157,VP135158		
CCC	VP135152		
Internal Standard/PEM			
ICV/I.BLK	VP135159		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q2880-04	STORAGE-BLANK-SAL	VX047365.D	15 Aug 2025 16:15	vial A pH<2	JC/MD	Ok
20	Q2886-01	BP-TT182D-TB-202508	VX047366.D	15 Aug 2025 16:36	vial A pH<2	JC/MD	Ok
21	Q2886-02	BP-TT182D-GW-202508	VX047367.D	15 Aug 2025 16:58	vial A pH<2 Surrogate Fail	JC/MD	ReRun
22	Q2837-01	TW-WTS-13	VX047368.D	15 Aug 2025 17:19	vial B pH<2	JC/MD	Ok,M
23	VSTDCCC050	VSTDCCC050EC	VX047369.D	15 Aug 2025 17:41		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047399.D	19 Aug 2025 08:38		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047400.D	19 Aug 2025 09:37	pH#Lot#V12668	JC/MD	Ok,M
3	VX0819MBL01	VX0819MBL01	VX047401.D	19 Aug 2025 10:05		JC/MD	Ok
4	VX0819WBL01	VX0819WBL01	VX047402.D	19 Aug 2025 10:55		JC/MD	Ok
5	VX0819WBS01	VX0819WBS01	VX047403.D	19 Aug 2025 11:55		JC/MD	Ok,M
6	Q2815-11	TW-22M-W	VX047404.D	19 Aug 2025 12:16	vial B pH<2	JC/MD	Ok
7	VX0819WBSD01	VX0819WBSD01	VX047405.D	19 Aug 2025 12:37		JC/MD	Ok,M
8	Q2815-12	TW-22M-S	VX047406.D	19 Aug 2025 12:59	vial B pH<2	JC/MD	Ok
9	Q2815-16RE	TW-17M-SRE	VX047407.D	19 Aug 2025 13:20	vial B pH<2 Surrogate Fail	JC/MD	Confirms
10	Q2815-24	TB	VX047408.D	19 Aug 2025 13:41	vial A pH<2 TB	JC/MD	Ok
11	Q2815-26	FB	VX047409.D	19 Aug 2025 14:07	vial A pH<2 FB;Surrogate Fail	JC/MD	ReRun
12	Q2841-01	MW-06-6.5-08122025	VX047410.D	19 Aug 2025 14:29	vial A pH<2	JC/MD	Ok
13	Q2841-01DL	MW-06-6.5-08122025D	VX047411.D	19 Aug 2025 14:50	Not required	JC/MD	Not Ok
14	Q2815-20	TW-11M-W	VX047412.D	19 Aug 2025 15:11	vial A pH<2	JC/MD	Ok
15	Q2815-21	TW-11M-E	VX047413.D	19 Aug 2025 15:32	vial A pH<2 Surrogate Fail	JC/MD	ReRun
16	Q2815-22	TW-11M-S	VX047414.D	19 Aug 2025 15:53	vial A pH<2 Surrogate Fail	JC/MD	ReRun
17	Q2815-23	TW-11M-N	VX047415.D	19 Aug 2025 16:14	vial A pH<2	JC/MD	Ok
18	Q2869-07	EB01-081325	VX047416.D	19 Aug 2025 16:36	vial A pH<2 EB	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX081925

Review By	John Carlone	Review On	8/20/2025 8:46:25 AM
Supervise By	Maresh Dadoda	Supervise On	8/20/2025 8:58:28 AM
SubDirectory	VX081925	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135170		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135171,VP135172		

19	Q2869-10	EB02-081325	VX047417.D	19 Aug 2025 16:57	vial A pH<2 EB	JC/MD	Ok
20	Q2869-11	TB01-081325	VX047418.D	19 Aug 2025 17:18	vial A pH<2 TB	JC/MD	Ok
21	Q2815-18	TW-84SB-W	VX047419.D	19 Aug 2025 17:39	vial A pH<2	JC/MD	Ok
22	Q2815-19	DUP	VX047420.D	19 Aug 2025 18:00	vial A pH<2	JC/MD	Ok
23	Q2869-01	MW-19B-71.5-081325	VX047421.D	19 Aug 2025 18:22	vial A pH<2	JC/MD	Ok
24	VX0819MBS01	VX0819MBS01	VX047422.D	19 Aug 2025 18:43		JC/MD	Ok,M
25	Q2844-09DL	MOO-25-0226DL	VX047423.D	19 Aug 2025 19:04		JC/MD	Ok
26	Q2884-03DL	302DL	VX047424.D	19 Aug 2025 19:25		JC/MD	Ok
27	VSTDCCC050	VSTDCCC050EC	VX047425.D	19 Aug 2025 19:47		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX082125

Review By	John Carlone	Review On	8/22/2025 9:26:16 AM
Supervise By	Maresh Dadoda	Supervise On	8/22/2025 10:55:07 PM
SubDirectory	VX082125	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135197		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135198,VP135199		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047454.D	21 Aug 2025 07:58		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047455.D	21 Aug 2025 09:35	pH#Lot#V12668	JC/MD	Ok,M
3	VX0821MBL01	VX0821MBL01	VX047456.D	21 Aug 2025 10:03		JC/MD	Ok
4	VX0821WBL01	VX0821WBL01	VX047457.D	21 Aug 2025 10:24		JC/MD	Ok
5	VX0821WBS01	VX0821WBS01	VX047458.D	21 Aug 2025 10:50	Recovery fail	JC/MD	Not Ok
6	VX0821WBSD01	VX0821WBSD01	VX047459.D	21 Aug 2025 11:18	Recovery fail	JC/MD	Not Ok
7	Q2869-04	MW-11A-13.5-081325	VX047460.D	21 Aug 2025 11:39	vial A pH<2 Need 20X	JC/MD	Dilution
8	Q2869-05	MW-19B-71.5-081325	VX047461.D	21 Aug 2025 12:00	vial A pH<2	JC/MD	Ok
9	Q2869-03	MW-01-6.5-081325	VX047462.D	21 Aug 2025 12:22	vial A pH<2	JC/MD	Ok
10	Q2900-02DL	MN-12C-081825DL	VX047463.D	21 Aug 2025 12:43	vial B pH<2	JC/MD	Ok
11	Q2900-03DL	DUP-01-081825DL	VX047464.D	21 Aug 2025 13:04	vial B pH<2	JC/MD	Ok
12	Q2900-05DL	MW-11C-081825DL	VX047465.D	21 Aug 2025 13:25	vial B pH<2	JC/MD	Ok
13	Q2900-08	TB-081825	VX047466.D	21 Aug 2025 13:46	vial B pH<2 TB	JC/MD	Ok
14	VX0821WBS02	VX0821WBS02	VX047467.D	21 Aug 2025 14:07		JC/MD	Ok,M
15	Q2869-04DL	MW-11A-13.5-081325D	VX047468.D	21 Aug 2025 14:28	vial B pH<2	JC/MD	Ok
16	Q2900-07RE	MW-11B-081825RE	VX047469.D	21 Aug 2025 14:49	vial B pH<2 Surrogate Fail	JC/MD	Confirms
17	VX0821WBSD02	VX0821WBSD02	VX047470.D	21 Aug 2025 15:10		JC/MD	Ok,M
18	Q2900-06	MW-17C-081825	VX047471.D	21 Aug 2025 15:31	vial B pH<2	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX082125

Review By	John Carlone	Review On	8/22/2025 9:26:16 AM
Supervise By	Maresh Dadoda	Supervise On	8/22/2025 10:55:07 PM
SubDirectory	VX082125	HP Acquire Method	HP Processing Method 82X081525W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP135197		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP135198,VP135199		

19	Q2903-01	MW-6A-081925	VX047472.D	21 Aug 2025 15:53	vial A pH<2	JC/MD	Ok
20	Q2903-02	MW-1C-081925	VX047473.D	21 Aug 2025 16:14	vial A pH<2 Surrogate Fail	JC/MD	ReRun
21	Q2900-04	MW-17B-081825	VX047474.D	21 Aug 2025 16:35	vial B pH<2	JC/MD	Ok
22	Q2903-03	MW-6B-081925	VX047475.D	21 Aug 2025 16:56	vial A pH<2	JC/MD	Ok,M
23	Q2903-04	MW-1B-081925	VX047476.D	21 Aug 2025 17:17	vial A pH<2	JC/MD	Ok
24	Q2903-05MS	Q2903-03MSMS	VX047477.D	21 Aug 2025 17:39	Spike not added	JC/MD	Not Ok
25	Q2903-06MSD	Q2903-03MSDMSD	VX047478.D	21 Aug 2025 18:00	Surrogate Fail;Spike not added	JC/MD	Not Ok
26	Q2903-07	MW-12B-081925	VX047479.D	21 Aug 2025 18:21	vial A pH<2 Surrogate Fail;Need 10X	JC/MD	Dilution
27	Q2903-08	MW-18B-081925	VX047480.D	21 Aug 2025 18:42	vial A pH<2	JC/MD	Ok
28	Q2903-09	DUP-02-081925	VX047481.D	21 Aug 2025 19:03	vial A pH<2 Surrogate Fail	JC/MD	ReRun
29	VSTDCCC050	VSTDCCC050EC	VX047482.D	21 Aug 2025 19:25		JC/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2869	OrderDate:	8/14/2025 9:15:00 AM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	J31,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2869-01	MW-19B-71.5-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/19/25	08/13/25
Q2869-03	MW-01-6.5-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/21/25	08/13/25
Q2869-04	MW-11A-13.5-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/21/25	08/13/25
Q2869-04DL	MW-11A-13.5-081325 DL	Water	VOCMS Group3	8260-Low	08/13/25		08/21/25	08/13/25
Q2869-05	MW-19B-71.5-081325 -FD	Water	VOCMS Group3	8260-Low	08/13/25		08/21/25	08/13/25
Q2869-07	EB01-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/19/25	08/13/25
Q2869-10	EB02-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/19/25	08/13/25
Q2869-11	TB01-081325	Water	VOCMS Group3	8260-Low	08/13/25		08/19/25	08/13/25