



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q2481
Client: Environmental Restoration, LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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Client ID: 0

Total Voc :
Total Concentration:

- A
- B
- C
- D
- E
- F
- G
- H
- I
- J
- K



SAMPLE DATA

Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-AL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-12			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047117.D	10	07/24/25 14:08	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.6		74 - 125	113%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		75 - 124	101%	SPK: 50
2037-26-5	Toluene-d8	56.5		86 - 113	113%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.1		77 - 121	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	405000	5.562			
540-36-3	1,4-Difluorobenzene	744000	6.769			
3114-55-4	Chlorobenzene-d5	710000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	364000	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:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-CLOXPL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-13			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047115.D	10	07/24/25 13:26	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.7		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	39.2		75 - 124	78%	SPK: 50
2037-26-5	Toluene-d8	56.1		86 - 113	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	306000	5.617			
540-36-3	1,4-Difluorobenzene	578000	6.812			
3114-55-4	Chlorobenzene-d5	435000	10.079			
3855-82-1	1,4-Dichlorobenzene-d4	264000	12.03			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25		
Project:	CC2-16 Analytical			Date Received:	06/27/25		
Client Sample ID:	CC0625-OXBL			SDG No.:	Q2481		
Lab Sample ID:	Q2481-14			Matrix:	TCLP		
Analytical Method:	8260D			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047114.D	10	07/24/25 13:06	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	55.8		74 - 125	112%	SPK: 50
1868-53-7	Dibromofluoromethane	29.5	*	75 - 124	59%	SPK: 50
2037-26-5	Toluene-d8	56.1		86 - 113	112%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.7		77 - 121	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	452000	5.562			
540-36-3	1,4-Difluorobenzene	827000	6.769			
3114-55-4	Chlorobenzene-d5	796000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	406000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25		
Project:	CC2-16 Analytical			Date Received:	06/27/25		
Client Sample ID:	CC0627-AOXL			SDG No.:	Q2481		
Lab Sample ID:	Q2481-15			Matrix:	TCLP		
Analytical Method:	8260D			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047118.D	10	07/24/25 14:29	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.5		74 - 125	119%	SPK: 50
1868-53-7	Dibromofluoromethane	51.5		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	57.9	*	86 - 113	116%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.7		77 - 121	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	401000	5.562			
540-36-3	1,4-Difluorobenzene	750000	6.769			
3114-55-4	Chlorobenzene-d5	708000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	355000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0625-NL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-16			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047119.D	10	07/24/25 14:50	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.0		74 - 125	100%	SPK: 50
1868-53-7	Dibromofluoromethane	42.6		75 - 124	85%	SPK: 50
2037-26-5	Toluene-d8	51.2		86 - 113	102%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	396000	5.562			
540-36-3	1,4-Difluorobenzene	749000	6.769			
3114-55-4	Chlorobenzene-d5	690000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	372000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25		
Project:	CC2-16 Analytical			Date Received:	06/27/25		
Client Sample ID:	CC0267-OXPL			SDG No.:	Q2481		
Lab Sample ID:	Q2481-17			Matrix:	TCLP		
Analytical Method:	8260D			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	TCLP VOA		
GC Column:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :	SW5035						

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047123.D	10	07/24/25 16:15	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.8		74 - 125	90%	SPK: 50
1868-53-7	Dibromofluoromethane	37.6		75 - 124	75%	SPK: 50
2037-26-5	Toluene-d8	48.8		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.6		77 - 121	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	355000	5.58			
540-36-3	1,4-Difluorobenzene	677000	6.781			
3114-55-4	Chlorobenzene-d5	522000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	320000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-OXL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-18			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047102.D	1000	07/23/25 19:00	VX072325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	260	U	260	5000	ug/L
75-35-4	1,1-Dichloroethene	230	U	230	5000	ug/L
78-93-3	2-Butanone	980	U	980	25000	ug/L
56-23-5	Carbon Tetrachloride	250	U	250	5000	ug/L
67-66-3	Chloroform	250	U	250	5000	ug/L
71-43-2	Benzene	150	U	150	5000	ug/L
107-06-2	1,2-Dichloroethane	220	U	220	5000	ug/L
79-01-6	Trichloroethene	93.0	U	93.0	5000	ug/L
127-18-4	Tetrachloroethene	230	U	230	5000	ug/L
108-90-7	Chlorobenzene	120	U	120	5000	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	47.5		75 - 124	95%	SPK: 50
2037-26-5	Toluene-d8	55.4		86 - 113	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	42.2		77 - 121	84%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	417000	5.562			
540-36-3	1,4-Difluorobenzene	773000	6.769			
3114-55-4	Chlorobenzene-d5	519000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	323000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-CLOXAL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-19			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047121.D	10	07/24/25 15:33	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.3		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	43.1		75 - 124	86%	SPK: 50
2037-26-5	Toluene-d8	48.2		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.0		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	415000	5.562			
540-36-3	1,4-Difluorobenzene	745000	6.769			
3114-55-4	Chlorobenzene-d5	702000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	363000	12.018			

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Report of Analysis

Client:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-BL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-20			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047122.D	10	07/24/25 15:54	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.6		74 - 125	93%	SPK: 50
1868-53-7	Dibromofluoromethane	27.6	*	75 - 124	55%	SPK: 50
2037-26-5	Toluene-d8	46.6		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.8		77 - 121	90%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	503000	5.562			
540-36-3	1,4-Difluorobenzene	913000	6.769			
3114-55-4	Chlorobenzene-d5	857000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	441000	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:	Environmental Restoration, LLC			Date Collected:	06/27/25	
Project:	CC2-16 Analytical			Date Received:	06/27/25	
Client Sample ID:	CC0627-SFBL			SDG No.:	Q2481	
Lab Sample ID:	Q2481-21			Matrix:	TCLP	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047120.D	10	07/24/25 15:12	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	50.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	50.0	ug/L
78-93-3	2-Butanone	9.80	U	9.80	250	ug/L
56-23-5	Carbon Tetrachloride	2.50	U	2.50	50.0	ug/L
67-66-3	Chloroform	2.50	U	2.50	50.0	ug/L
71-43-2	Benzene	1.50	U	1.50	50.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	50.0	ug/L
79-01-6	Trichloroethene	0.93	U	0.93	50.0	ug/L
127-18-4	Tetrachloroethene	2.30	U	2.30	50.0	ug/L
108-90-7	Chlorobenzene	1.20	U	1.20	50.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	18.3	*	75 - 124	37%	SPK: 50
2037-26-5	Toluene-d8	48.0		86 - 113	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.1		77 - 121	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	489000	5.562			
540-36-3	1,4-Difluorobenzene	893000	6.769			
3114-55-4	Chlorobenzene-d5	845000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	419000	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



QC SUMMARY

Surrogate Summary

SDG No.: **Q2481**

Client: **Environmental Restoration, LLC**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2481-12	CC0627-AL	1,2-Dichloroethane-d4	50	56.6	113		74	125
		Dibromofluoromethane	50	50.5	101		75	124
		Toluene-d8	50	56.5	113		86	113
		4-Bromofluorobenzene	50	55.1	110		77	121
Q2481-13	CC0627-CLOXPL	1,2-Dichloroethane-d4	50	50.7	101		74	125
		Dibromofluoromethane	50	39.2	78		75	124
		Toluene-d8	50	56.1	112		86	113
		4-Bromofluorobenzene	50	47.3	95		77	121
Q2481-14	CC0625-OXBL	1,2-Dichloroethane-d4	50	55.8	112		74	125
		Dibromofluoromethane	50	29.5	59	*	75	124
		Toluene-d8	50	56.1	112		86	113
		4-Bromofluorobenzene	50	53.7	107		77	121
Q2481-15	CC0627-AOXL	1,2-Dichloroethane-d4	50	59.5	119		74	125
		Dibromofluoromethane	50	51.5	103		75	124
		Toluene-d8	50	57.9	116	*	86	113
		4-Bromofluorobenzene	50	55.7	111		77	121
Q2481-16	CC0625-NL	1,2-Dichloroethane-d4	50	50.0	100		74	125
		Dibromofluoromethane	50	42.6	85		75	124
		Toluene-d8	50	51.2	102		86	113
		4-Bromofluorobenzene	50	49.5	99		77	121
Q2481-17	CC0267-OXPL	1,2-Dichloroethane-d4	50	44.8	90		74	125
		Dibromofluoromethane	50	37.6	75		75	124
		Toluene-d8	50	48.8	98		86	113
		4-Bromofluorobenzene	50	40.6	81		77	121
Q2481-18	CC0627-OXL	1,2-Dichloroethane-d4	50	53.6	107		74	125
		Dibromofluoromethane	50	47.5	95		75	124
		Toluene-d8	50	55.5	111		86	113
		4-Bromofluorobenzene	50	42.2	84		77	121
Q2481-19	CC0627-CLOXAL	1,2-Dichloroethane-d4	50	46.3	93		74	125
		Dibromofluoromethane	50	43.1	86		75	124
		Toluene-d8	50	48.2	96		86	113
		4-Bromofluorobenzene	50	47.0	94		77	121
Q2481-20	CC0627-BL	1,2-Dichloroethane-d4	50	46.6	93		74	125
		Dibromofluoromethane	50	27.6	55	*	75	124
		Toluene-d8	50	46.6	93		86	113
		4-Bromofluorobenzene	50	44.8	90		77	121
Q2481-21	CC0627-SFBL	1,2-Dichloroethane-d4	50	49.7	99		74	125
		Dibromofluoromethane	50	18.3	37	*	75	124
		Toluene-d8	50	48.0	96		86	113
		4-Bromofluorobenzene	50	47.1	94		77	121
VX0723WBL01	VX0723WBL01	1,2-Dichloroethane-d4	50	49.7	99		74	125
		Dibromofluoromethane	50	47.3	94		75	124
		Toluene-d8	50	52.1	104		86	113
		4-Bromofluorobenzene	50	48.4	97		77	121
VX0723WBS01	VX0723WBS01	1,2-Dichloroethane-d4	50	49.0	98		74	125
		Dibromofluoromethane	50	49.3	99		75	124
		Toluene-d8	50	46.9	94		86	113
		4-Bromofluorobenzene	50	47.3	95		77	121
VX0723WBSD0	VX0723WBSD01	1,2-Dichloroethane-d4	50	47.7	95		74	125
		Dibromofluoromethane	50	48.5	97		75	124

Surrogate Summary

SDG No.: Q2481

Client: Environmental Restoration, LLC

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VX0723WBSD0	VX0723WBSD01	Toluene-d8	50	46.3	93		86	113
		4-Bromofluorobenzene	50	49.7	99		77	121

Surrogate Summary

SDG No.: Q2481

Client: Environmental Restoration, LLC

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
VX0724WBL01	VX0724WBL01	1,2-Dichloroethane-d4	50	52.5	105		74	125
		Dibromofluoromethane	50	48.5	97		75	124
		Toluene-d8	50	53.9	108		86	113
		4-Bromofluorobenzene	50	51.5	103		77	121
VX0724WBS01	VX0724WBS01	1,2-Dichloroethane-d4	50	50.4	101		74	125
		Dibromofluoromethane	50	51.0	102		75	124
		Toluene-d8	50	49.0	98		86	113
		4-Bromofluorobenzene	50	50.6	101		77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2481</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Environmental Restoration, LLC</u>	Datafile :	<u>VX047080.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0723WBS01	Vinyl chloride	20	19.1	ug/L	96			65	117	
	1,1-Dichloroethene	20	18.7	ug/L	94			74	110	
	2-Butanone	100	88.9	ug/L	89			65	122	
	Carbon Tetrachloride	20	18.1	ug/L	91			77	113	
	Chloroform	20	18.9	ug/L	95			79	113	
	Benzene	20	18.7	ug/L	94			82	109	
	1,2-Dichloroethane	20	19.2	ug/L	96			80	115	
	Trichloroethene	20	18.0	ug/L	90			77	113	
	Tetrachloroethene	20	18.1	ug/L	91			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2481</u>	Analytical Method:	<u>SW8260D</u>
Client:	<u>Environmental Restoration, LLC</u>	Datafile :	<u>VX047088.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0723WBSD01	Vinyl chloride	20	18.5	ug/L	93	3		65	117	19
	1,1-Dichloroethene	20	18.2	ug/L	91	3		74	110	20
	2-Butanone	100	95.1	ug/L	95	7		65	122	26
	Carbon Tetrachloride	20	17.9	ug/L	90	1		77	113	15
	Chloroform	20	18.4	ug/L	92	3		79	113	20
	Benzene	20	18.5	ug/L	93	1		82	109	15
	1,2-Dichloroethane	20	18.8	ug/L	94	2		80	115	20
	Trichloroethene	20	17.9	ug/L	90	0		77	113	15
	Tetrachloroethene	20	18.1	ug/L	91	0		67	123	15
	Chlorobenzene	20	18.4	ug/L	92	2		82	109	15

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2481</u>	Analytical Method:	<u>SW8260-Low</u>
Client:	<u>Environmental Restoration, LLC</u>	Datafile :	<u>VX047108.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0724WBS01	Vinyl chloride	20	19.3	ug/L	97			65	117	
	1,1-Dichloroethene	20	18.8	ug/L	94			74	110	
	2-Butanone	100	89.5	ug/L	90			65	122	
	Carbon Tetrachloride	20	18.7	ug/L	94			77	113	
	Chloroform	20	19.2	ug/L	96			79	113	
	Benzene	20	19.0	ug/L	95			82	109	
	1,2-Dichloroethane	20	19.6	ug/L	98			80	115	
	Trichloroethene	20	18.6	ug/L	93			77	113	
	Tetrachloroethene	20	18.2	ug/L	91			67	123	
	Chlorobenzene	20	18.8	ug/L	94			82	109	

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0723WBL01

Lab Name: Alliance

Contract: ENVI60

Lab Code: ACE

SDG NO.: Q2481

Lab File ID: VX047079.D

Lab Sample ID: VX0723WBL01

Date Analyzed: 07/23/2025

Time Analyzed: 10:45

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
VX0723WBS01	VX0723WBS01	VX047080.D	07/23/2025
VX0723WBSD01	VX0723WBSD01	VX047088.D	07/23/2025
CC0627-OXL	Q2481-18	VX047102.D	07/23/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VX0724WBL01

Lab Name: Alliance

Contract: ENVI60

Lab Code: ACE

SDG NO.: Q2481

Lab File ID: VX047107.D

Lab Sample ID: VX0724WBL01

Date Analyzed: 07/24/2025

Time Analyzed: 10:34

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
VX0724WBS01	VX0724WBS01	VX047108.D	07/24/2025
CC0625-OXBL	Q2481-14	VX047114.D	07/24/2025
CC0627-CLOXPL	Q2481-13	VX047115.D	07/24/2025
CC0627-AL	Q2481-12	VX047117.D	07/24/2025
CC0627-AOXL	Q2481-15	VX047118.D	07/24/2025
CC0625-NL	Q2481-16	VX047119.D	07/24/2025
CC0627-SFBL	Q2481-21	VX047120.D	07/24/2025
CC0627-CLOXAL	Q2481-19	VX047121.D	07/24/2025
CC0627-BL	Q2481-20	VX047122.D	07/24/2025
CC0267-OXPL	Q2481-17	VX047123.D	07/24/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ENVI60

Lab Code: ACE

SDG NO.: Q2481

Lab File ID: VX047054.D

BFB Injection Date: 07/21/2025

Instrument ID: MSVOA_X

BFB Injection Time: 08:53

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	52.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1.2) 1
174	50.0 - 100.0% of mass 95	72.5
175	5.0 - 9.0% of mass 174	5.3 (7.3) 1
176	95.0 - 101.0% of mass 174	69.5 (95.9) 1
177	5.0 - 9.0% of mass 176	5 (7.2) 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
VSTDIC001	VSTDIC001	VX047055.D	07/21/2025	09:47
VSTDIC005	VSTDIC005	VX047056.D	07/21/2025	10:08
VSTDIC020	VSTDIC020	VX047057.D	07/21/2025	10:29
VSTDIC050	VSTDIC050	VX047058.D	07/21/2025	10:50
VSTDIC100	VSTDIC100	VX047059.D	07/21/2025	11:11
VSTDIC150	VSTDIC150	VX047060.D	07/21/2025	11:32

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ENVI60

Lab Code: ACE

SDG NO.: Q2481

Lab File ID: VX047076.D

BFB Injection Date: 07/23/2025

Instrument ID: MSVOA_X

BFB Injection Time: 09:00

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.1
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	74.3
175	5.0 - 9.0% of mass 174	5.7 (7.7) 1
176	95.0 - 101.0% of mass 174	71.6 (96.4) 1
177	5.0 - 9.0% of mass 176	4.6 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047077.D	07/23/2025	09:30
VX0723WBL01	VX0723WBL01	VX047079.D	07/23/2025	10:45
VX0723WBS01	VX0723WBS01	VX047080.D	07/23/2025	11:13
VX0723WBSD01	VX0723WBSD01	VX047088.D	07/23/2025	14:07
CC0627-OXL	Q2481-18	VX047102.D	07/23/2025	19:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: ENVI60

Lab Code: ACE

SDG NO.: Q2481

Lab File ID: VX047104.D

BFB Injection Date: 07/24/2025

Instrument ID: MSVOA_X

BFB Injection Time: 09:12

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	20.4
75	30.0 - 60.0% of mass 95	53.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	72.2
175	5.0 - 9.0% of mass 174	5.1 (7) 1
176	95.0 - 101.0% of mass 174	70.5 (97.6) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX047105.D	07/24/2025	09:44
VX0724WBL01	VX0724WBL01	VX047107.D	07/24/2025	10:34
VX0724WBS01	VX0724WBS01	VX047108.D	07/24/2025	10:55
CC0625-OXBL	Q2481-14	VX047114.D	07/24/2025	13:06
CC0627-CLOXPL	Q2481-13	VX047115.D	07/24/2025	13:26
CC0627-AL	Q2481-12	VX047117.D	07/24/2025	14:08
CC0627-AOXL	Q2481-15	VX047118.D	07/24/2025	14:29
CC0625-NL	Q2481-16	VX047119.D	07/24/2025	14:50
CC0627-SFBL	Q2481-21	VX047120.D	07/24/2025	15:12
CC0627-CLOXAL	Q2481-19	VX047121.D	07/24/2025	15:33
CC0627-BL	Q2481-20	VX047122.D	07/24/2025	15:54
CC0267-OXPL	Q2481-17	VX047123.D	07/24/2025	16:15

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: ENVI60
 Lab Code: ACE SDG NO.: Q2481
 Lab File ID: VX047077.D Date Analyzed: 07/23/2025
 Instrument ID: MSVOA_X Time Analyzed: 09:30
 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	346372	5.56	582956	6.76	499261	10.05
UPPER LIMIT	692744	6.056	1165910	7.263	998522	10.549
LOWER LIMIT	173186	5.056	291478	6.263	249631	9.549
EPA SAMPLE NO.						
CC0627-OXL	416777	5.56	772965	6.77	519074	10.06
VX0723WBL01	495715	5.56	888951	6.76	838806	10.06
VX0723WBS01	361496	5.56	612680	6.76	542704	10.06
VX0723WBSD01	310959	5.56	528421	6.77	477316	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>ENVI60</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2481</u>
Lab File ID:	<u>VX047077.D</u>	Date Analyzed:	<u>07/23/2025</u>
Instrument ID:	<u>MSVOA_X</u>	Time Analyzed:	<u>09:30</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	238699	12.018				
UPPER LIMIT	477398	12.518				
LOWER LIMIT	119350	11.518				
EPA SAMPLE NO.						
CC0627-OXL	323235	12.02				
VX0723WBL01	406646	12.02				
VX0723WBS01	268316	12.02				
VX0723WBSD01	242466	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: ENVI60
Lab Code: ACE SDG NO.: Q2481
Lab File ID: VX047105.D Date Analyzed: 07/24/2025
Instrument ID: MSVOA_X Time Analyzed: 09:44
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	299639	5.56	500897	6.76	440622	10.06
UPPER LIMIT	599278	6.056	1001790	7.263	881244	10.555
LOWER LIMIT	149820	5.056	250449	6.263	220311	9.555
EPA SAMPLE NO.						
CC0627-AL	405182	5.56	744375	6.77	710158	10.06
CC0627-CLOXPL	306378	5.62	578026	6.81	434831	10.08
CC0625-0XBL	452175	5.56	826688	6.77	795791	10.06
CC0627-AOXL	401016	5.56	749846	6.77	708181	10.06
CC0625-NL	396009	5.56	749209	6.77	689935	10.06
CC0267-0XPL	354820	5.58	677494	6.78	521532	10.06
CC0627-CLOXAL	414773	5.56	745400	6.77	702427	10.06
CC0627-BL	503250	5.56	912608	6.77	857469	10.06
CC0627-SFBL	488832	5.56	892867	6.77	845132	10.06
VX0724WBL01	463916	5.56	839242	6.77	802389	10.06
VX0724WBS01	305867	5.57	519601	6.77	466090	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>ENVI60</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2481</u>
Lab File ID:	<u>VX047105.D</u>	Date Analyzed:	<u>07/24/2025</u>
Instrument ID:	<u>MSVOA_X</u>	Time Analyzed:	<u>09:44</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	207085	12.018				
UPPER LIMIT	414170	12.518				
LOWER LIMIT	103543	11.518				
EPA SAMPLE NO.						
CC0627-AL	363979	12.02				
CC0627-CLOXPL	264294	12.03				
CC0625-0XBL	405857	12.02				
CC0627-AOXL	355368	12.02				
CC0625-NL	372334	12.02				
CC0267-0XPL	319546	12.02				
CC0627-CLOXAL	362645	12.02				
CC0627-BL	440518 *	12.02				
CC0627-SFBL	418999 *	12.02				
VX0724WBL01	396966	12.02				
VX0724WBS01	230557	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

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	
Project:	CC2-16 Analytical	Date Received:	
Client Sample ID:	VX0723WBL01	SDG No.:	Q2481
Lab Sample ID:	VX0723WBL01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047079.D	1	07/23/25 10:45	VX072325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	5.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	5.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	5.00	ug/L
71-43-2	Benzene	0.15	U	0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	5.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	5.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	5.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	47.2		75 - 124	94%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.4		77 - 121	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	496000	5.556			
540-36-3	1,4-Difluorobenzene	889000	6.763			
3114-55-4	Chlorobenzene-d5	839000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	407000	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:	Environmental Restoration, LLC	Date Collected:	
Project:	CC2-16 Analytical	Date Received:	
Client Sample ID:	VX0724WBL01	SDG No.:	Q2481
Lab Sample ID:	VX0724WBL01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047107.D	1	07/24/25 10:34	VX072425

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
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	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
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	48.6		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	53.8		86 - 113	108%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.5		77 - 121	103%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	464000	5.562			
540-36-3	1,4-Difluorobenzene	839000	6.769			
3114-55-4	Chlorobenzene-d5	802000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	397000	12.018			

U = Not Detected

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MDL = Method Detection Limit

LOD = Limit of Detection

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	
Project:	CC2-16 Analytical	Date Received:	
Client Sample ID:	VX0723WBS01	SDG No.:	Q2481
Lab Sample ID:	VX0723WBS01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047080.D	1	07/23/25 11:13	VX072325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.1		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.7		0.23	5.00	ug/L
78-93-3	2-Butanone	88.9		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	18.1		0.25	5.00	ug/L
67-66-3	Chloroform	18.9		0.25	5.00	ug/L
71-43-2	Benzene	18.7		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	19.2		0.22	5.00	ug/L
79-01-6	Trichloroethene	18.0		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	18.1		0.23	5.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.0		74 - 125	98%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		75 - 124	99%	SPK: 50
2037-26-5	Toluene-d8	46.9		86 - 113	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	361000	5.556			
540-36-3	1,4-Difluorobenzene	613000	6.763			
3114-55-4	Chlorobenzene-d5	543000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	268000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Environmental Restoration, LLC	Date Collected:	
Project:	CC2-16 Analytical	Date Received:	
Client Sample ID:	VX0724WBS01	SDG No.:	Q2481
Lab Sample ID:	VX0724WBS01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047108.D	1	07/24/25 10:55	VX072425

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	19.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	1.00	ug/L
78-93-3	2-Butanone	89.5		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.7		0.25	1.00	ug/L
67-66-3	Chloroform	19.2		0.25	1.00	ug/L
71-43-2	Benzene	19.0		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	18.2		0.23	1.00	ug/L
108-90-7	Chlorobenzene	18.8		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.4		74 - 125	101%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	49.0		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		77 - 121	101%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	306000	5.568			
540-36-3	1,4-Difluorobenzene	520000	6.769			
3114-55-4	Chlorobenzene-d5	466000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	231000	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:	Environmental Restoration, LLC	Date Collected:	
Project:	CC2-16 Analytical	Date Received:	
Client Sample ID:	VX0723WBSD01	SDG No.:	Q2481
Lab Sample ID:	VX0723WBSD01	Matrix:	TCLP
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Date Analyzed	Prep Batch ID
VX047088.D	1	07/23/25 14:07	VX072325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.5		0.26	5.00	ug/L
75-35-4	1,1-Dichloroethene	18.2		0.23	5.00	ug/L
78-93-3	2-Butanone	95.1		0.98	25.0	ug/L
56-23-5	Carbon Tetrachloride	17.9		0.25	5.00	ug/L
67-66-3	Chloroform	18.4		0.25	5.00	ug/L
71-43-2	Benzene	18.5		0.15	5.00	ug/L
107-06-2	1,2-Dichloroethane	18.8		0.22	5.00	ug/L
79-01-6	Trichloroethene	17.9		0.090	5.00	ug/L
127-18-4	Tetrachloroethene	18.1		0.23	5.00	ug/L
108-90-7	Chlorobenzene	18.4		0.12	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	47.7		74 - 125	95%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		75 - 124	97%	SPK: 50
2037-26-5	Toluene-d8	46.3		86 - 113	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		77 - 121	99%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	311000	5.562			
540-36-3	1,4-Difluorobenzene	528000	6.769			
3114-55-4	Chlorobenzene-d5	477000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	242000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

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M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>ENVI60</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2481</u>
Instrument ID: <u>MSVOA_X</u>	Calibration Date(s): <u>07/21/2025</u> <u>07/21/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:47</u> <u>11:32</u>
GC Column: <u>DB-624UI</u> ID: <u>0.18</u> (mm)	

LAB FILE ID:		RRF001 = VX047055.D		RRF005 = VX047056.D		RRF020 = VX047057.D		
		RRF050 = VX047058.D		RRF100 = VX047059.D		RRF150 = VX047060.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Vinyl Chloride	0.578	0.739	0.700	0.780	0.716	0.723	0.706	9.7
1,1-Dichloroethene	0.553	0.659	0.635	0.674	0.624	0.625	0.628	6.7
2-Butanone	0.317	0.376	0.371	0.391	0.363	0.362	0.363	6.8
Carbon Tetrachloride	0.526	0.612	0.566	0.595	0.531	0.540	0.562	6.4
Chloroform	1.180	1.357	1.252	1.289	1.175	1.164	1.236	6.2
Benzene	1.327	1.656	1.573	1.650	1.451	1.480	1.523	8.4
1,2-Dichloroethane	0.468	0.587	0.558	0.576	0.512	0.517	0.536	8.5
Trichloroethene	0.350	0.427	0.392	0.420	0.371	0.383	0.391	7.5
Tetrachloroethene	0.322	0.403	0.381	0.376	0.337	0.344	0.360	8.6
Chlorobenzene	1.029	1.295	1.225	1.231	1.114	1.135	1.171	8.2
1,2-Dichloroethane-d4		0.768	0.511	0.575	0.611	0.649	0.623	15.4
Dibromofluoromethane		0.355	0.262	0.296	0.302	0.328	0.309	11.3
Toluene-d8		1.293	0.821	0.924	0.946	1.014	1.000	17.8
4-Bromofluorobenzene		0.514	0.369	0.409	0.417	0.445	0.431	12.5

* 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>ENVI60</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2481</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>07/23/2025</u> <u>09:30</u>
Lab File ID:	<u>VX047077.D</u>	Init. Calib. Date(s):	<u>07/21/2025</u> <u>07/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:47</u> <u>11:32</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.706	0.725		2.69	20
1,1-Dichloroethene	0.628	0.610		-2.87	20
2-Butanone	0.363	0.329		-9.37	20
Carbon Tetrachloride	0.562	0.508		-9.61	20
Chloroform	1.236	1.136		-8.09	20
Benzene	1.523	1.384		-9.13	20
1,2-Dichloroethane	0.536	0.496		-7.46	20
Trichloroethene	0.391	0.348		-11	20
Tetrachloroethene	0.360	0.323		-10.28	20
Chlorobenzene	1.171	1.072	0.3	-8.45	20
1,2-Dichloroethane-d4	0.623	0.586		-5.94	20
Dibromofluoromethane	0.309	0.304		-1.62	20
Toluene-d8	1.000	0.902		-9.8	20
4-Bromofluorobenzene	0.431	0.393		-8.82	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>ENVI60</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2481</u>
Instrument ID:	<u>MSVOA_X</u>	Calibration Date/Time:	<u>07/24/2025</u> <u>09:44</u>
Lab File ID:	<u>VX047105.D</u>	Init. Calib. Date(s):	<u>07/21/2025</u> <u>07/21/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:47</u> <u>11:32</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.706	0.789		11.76	20
1,1-Dichloroethene	0.628	0.640		1.91	20
2-Butanone	0.363	0.345		-4.96	20
Carbon Tetrachloride	0.562	0.551		-1.96	20
Chloroform	1.236	1.218		-1.46	20
Benzene	1.523	1.505		-1.18	20
1,2-Dichloroethane	0.536	0.537		0.19	20
Trichloroethene	0.391	0.374		-4.35	20
Tetrachloroethene	0.360	0.338		-6.11	20
Chlorobenzene	1.171	1.122	0.3	-4.18	20
1,2-Dichloroethane-d4	0.623	0.644		3.37	20
Dibromofluoromethane	0.309	0.335		8.41	20
Toluene-d8	1.000	1.006		0.6	20
4-Bromofluorobenzene	0.431	0.444		3.02	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\VX072425\
 Data File : VX047117.D
 Acq On : 24 Jul 2025 14:08
 Operator : JC/MD
 Sample : Q2481-12 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-AL

Quant Time: Jul 25 01:23:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

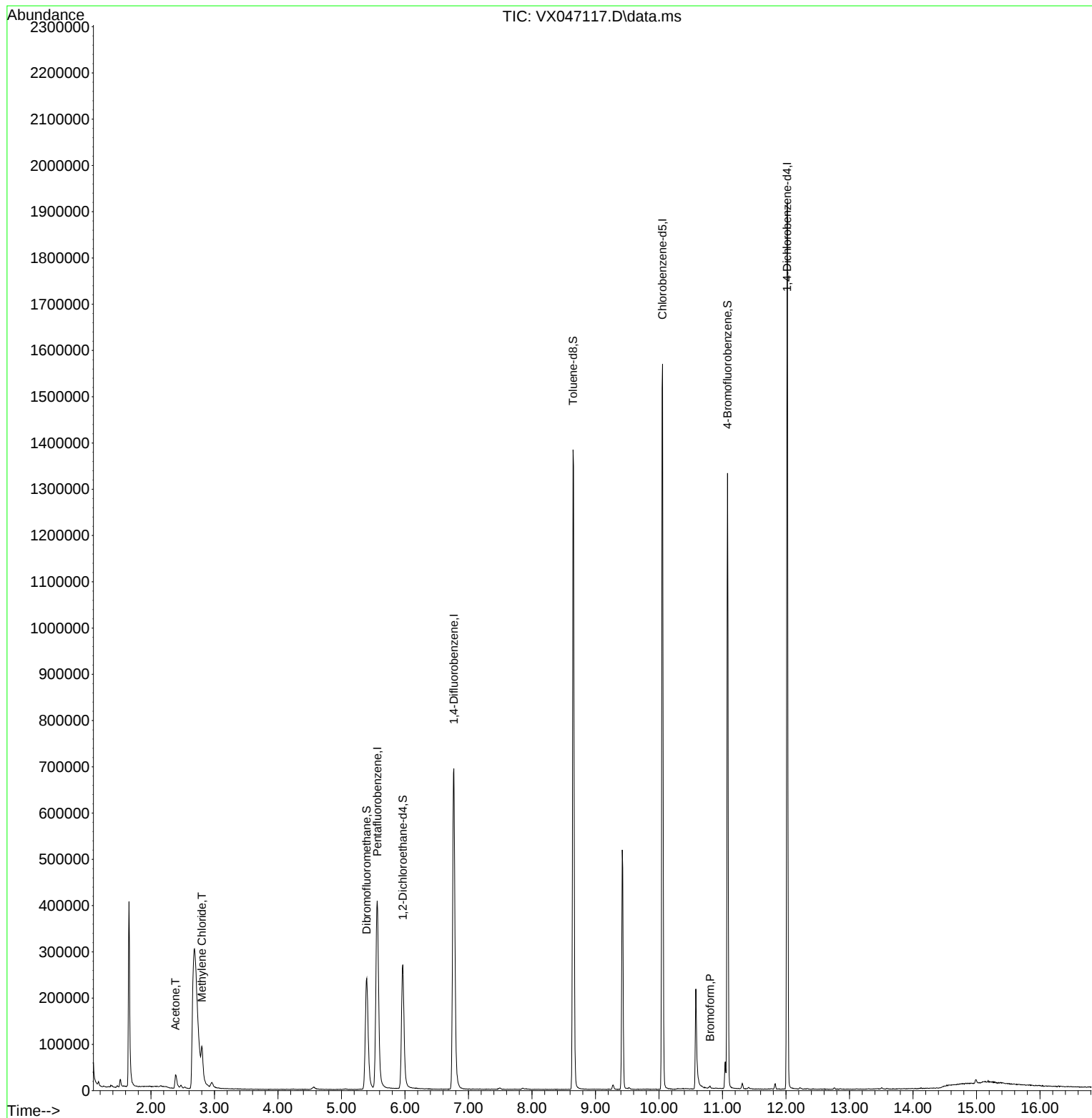
Internal Standards						
1) Pentafluorobenzene	5.562	168	405182	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	744375	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	710158	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	363979	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	285791	56.623	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 113.240%	
35) Dibromofluoromethane	5.398	113	231882	50.453	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.900%	
50) Toluene-d8	8.647	98	841647	56.547	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 113.100%#	
62) 4-Bromofluorobenzene	11.079	95	353285	55.078	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 110.160%	
Target Compounds						
						Qvalue
16) Acetone	2.386	43	46893	23.192	ug/l	98
20) Methylene Chloride	2.800	84	27228	4.895	ug/l	97
71) Bromoform	10.805	173	1682	0.395	ug/l #	96

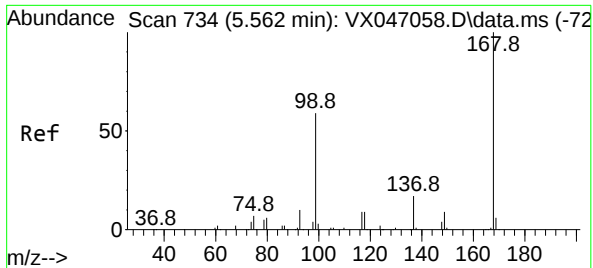
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047117.D
Acq On : 24 Jul 2025 14:08
Operator : JC/MD
Sample : Q2481-12 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0627-AL

Quant Time: Jul 25 01:23:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

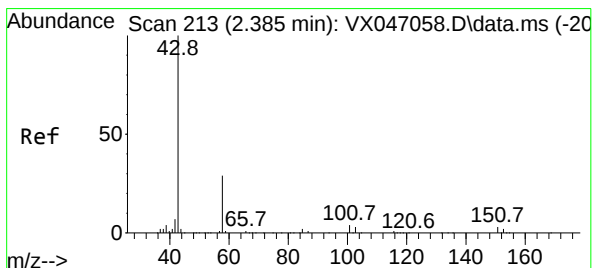
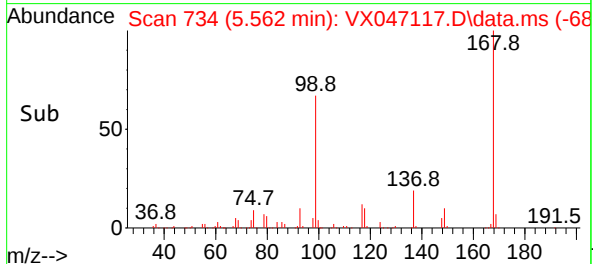
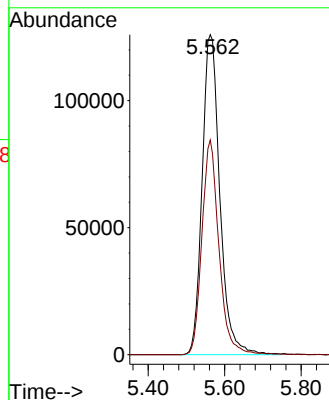
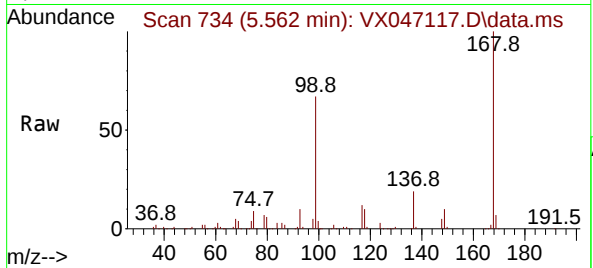




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

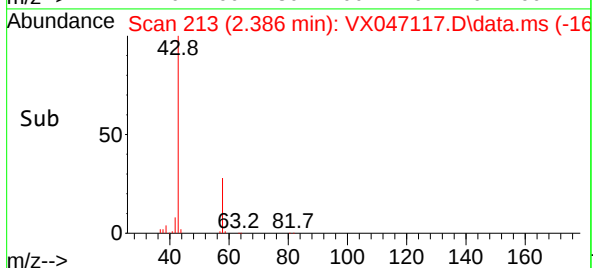
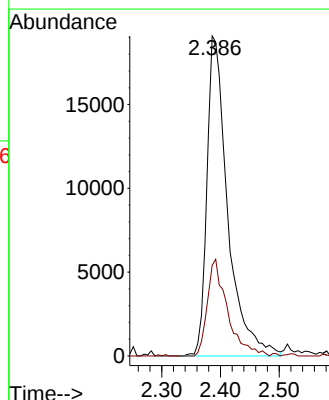
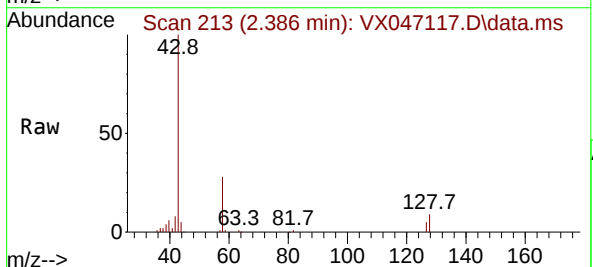
Instrument :
MSVOA_X
ClientSampleId :
CC0627-AL

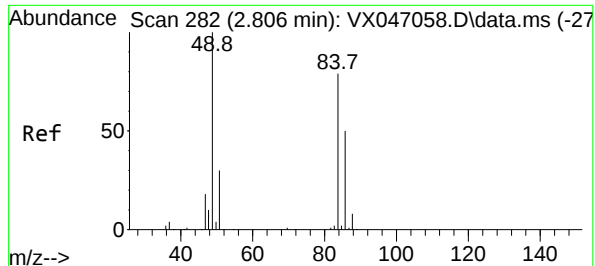
Tgt Ion:168 Resp: 405182
Ion Ratio Lower Upper
168 100
99 67.1 48.0 72.0



#16
Acetone
Concen: 23.192 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Tgt Ion: 43 Resp: 46893
Ion Ratio Lower Upper
43 100
58 29.0 24.0 36.0





#20

Methylene Chloride

Concen: 4.895 ug/l

RT: 2.800 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AL

Tgt Ion: 84 Resp: 27228

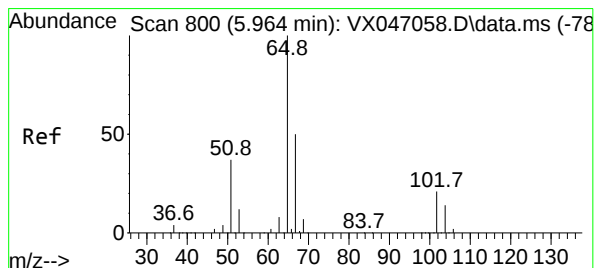
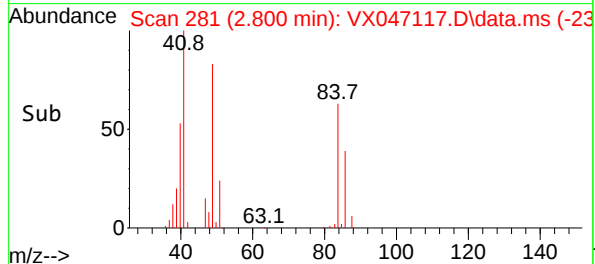
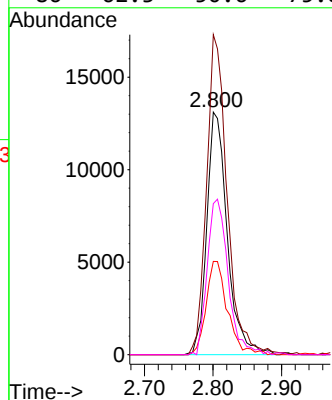
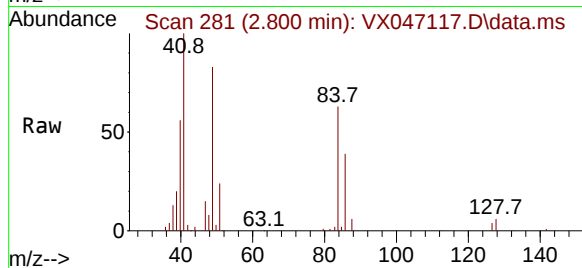
Ion Ratio Lower Upper

84 100

49 131.9 101.6 152.4

51 39.0 30.3 45.5

86 62.3 50.6 75.8



#33

1,2-Dichloroethane-d4

Concen: 56.623 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.001 min

Lab File: VX047117.D

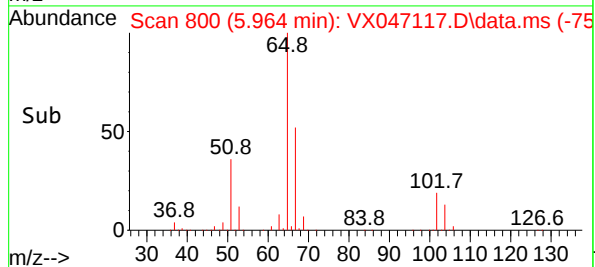
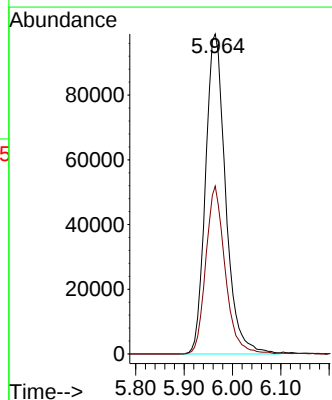
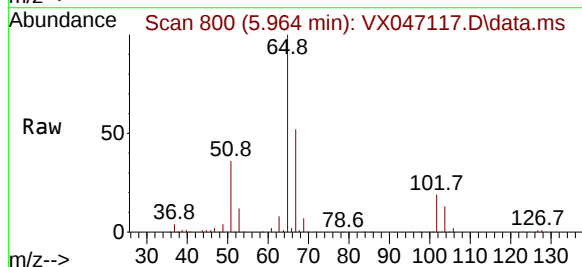
Acq: 24 Jul 2025 14:08

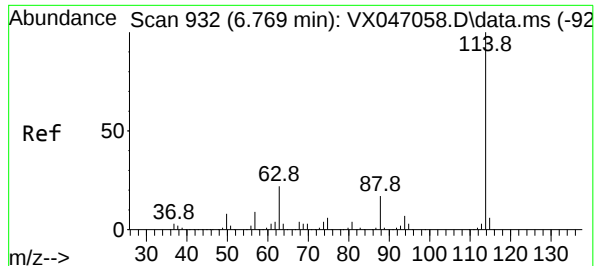
Tgt Ion: 65 Resp: 285791

Ion Ratio Lower Upper

65 100

67 50.4 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.001 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AL

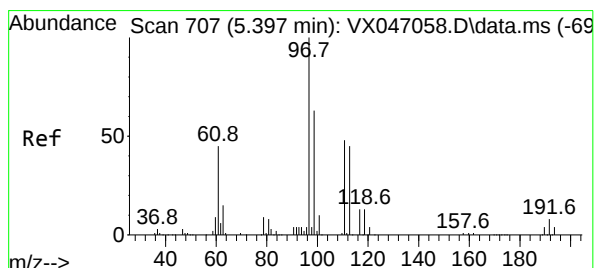
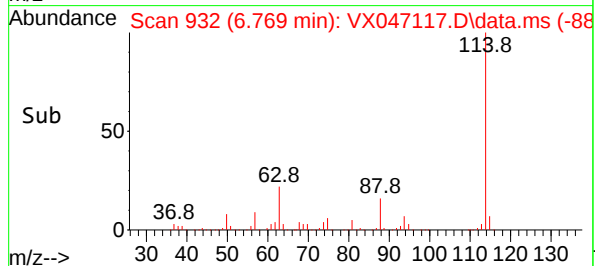
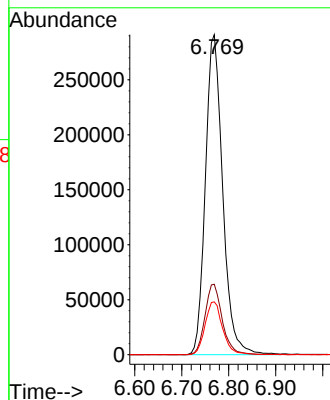
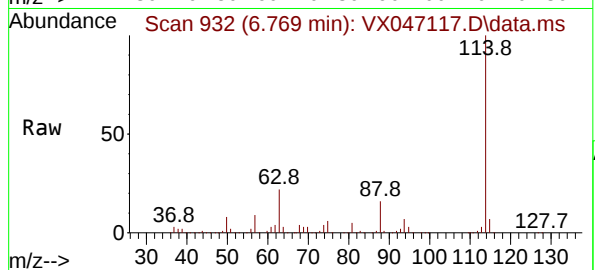
Tgt Ion:114 Resp: 744375

Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.5 0.0 33.8



#35

Dibromofluoromethane

Concen: 50.453 ug/l

RT: 5.398 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

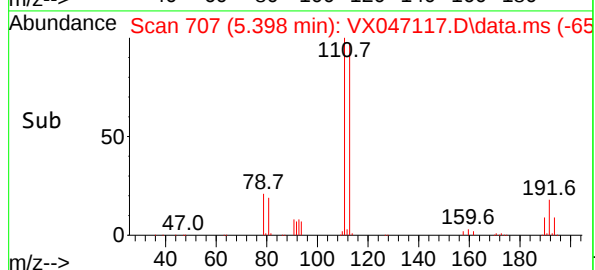
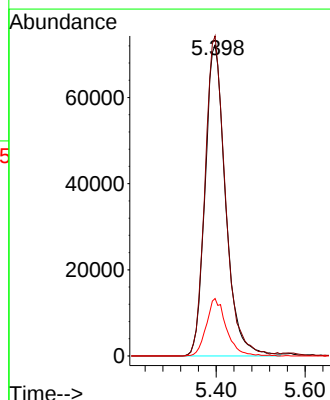
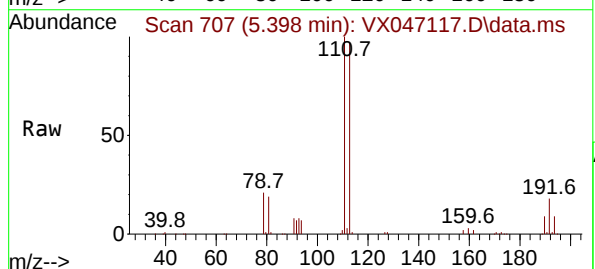
Tgt Ion:113 Resp: 231882

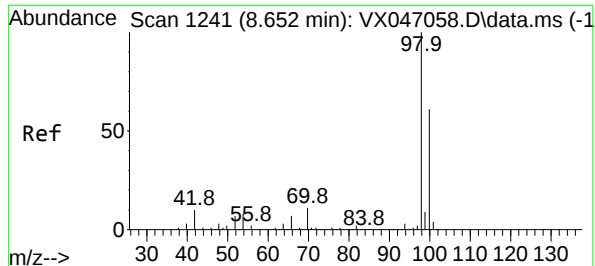
Ion Ratio Lower Upper

113 100

111 101.6 82.6 124.0

192 18.0 14.9 22.3





#50

Toluene-d8

Concen: 56.547 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :

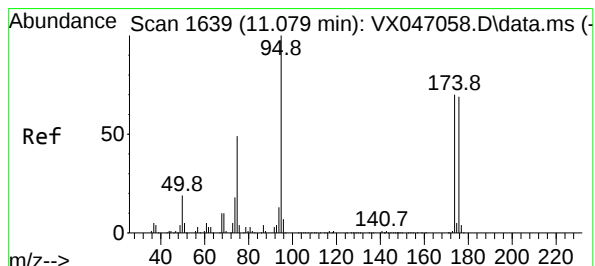
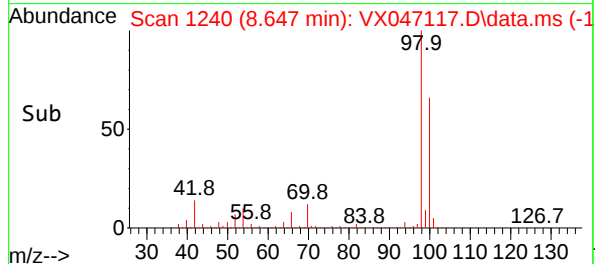
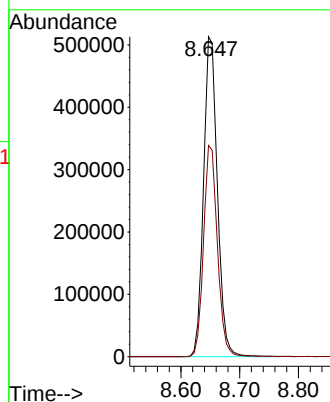
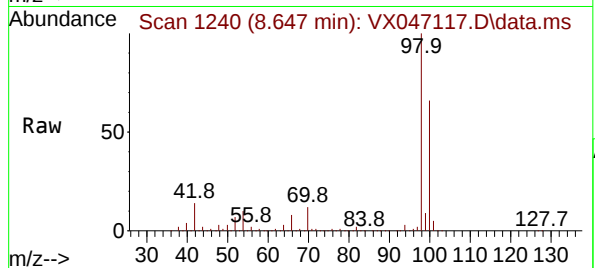
CC0627-AL

Tgt Ion: 98 Resp: 841647

Ion Ratio Lower Upper

98 100

100 66.1 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 55.078 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.001 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

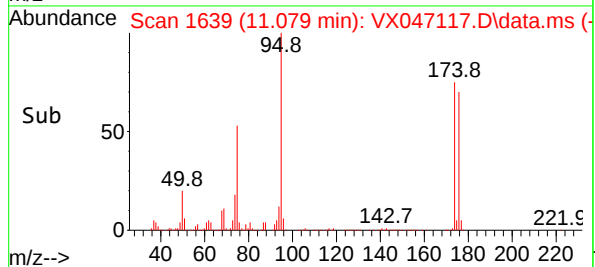
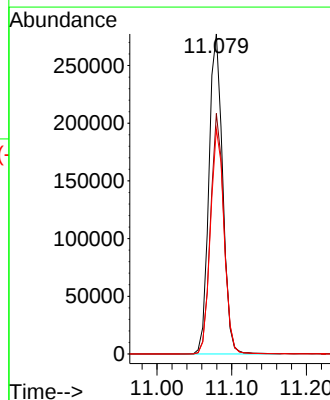
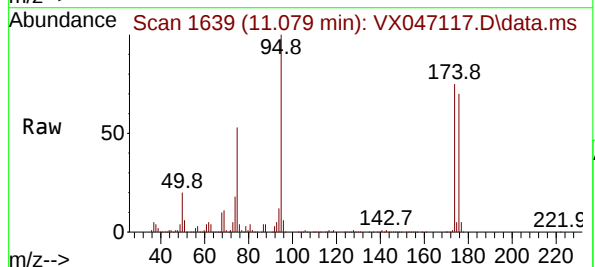
Tgt Ion: 95 Resp: 353285

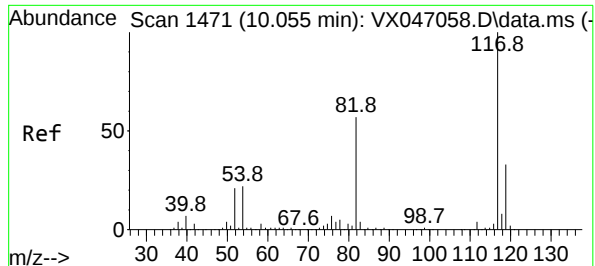
Ion Ratio Lower Upper

95 100

174 73.3 0.0 144.6

176 70.1 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AL

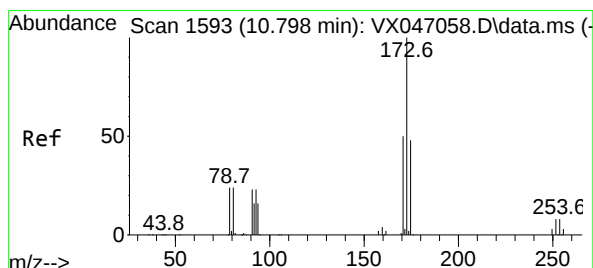
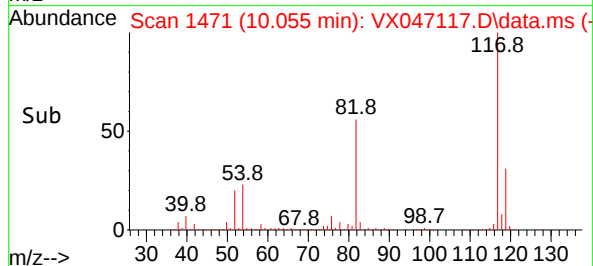
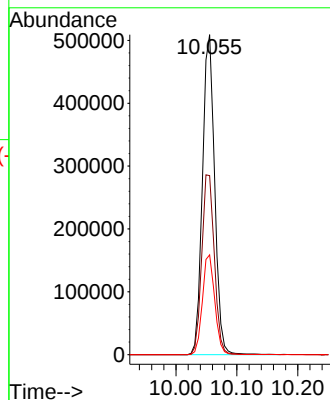
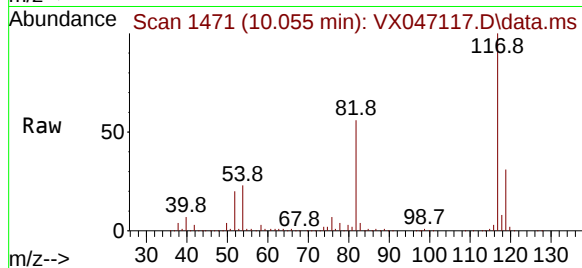
Tgt Ion:117 Resp: 710158

Ion Ratio Lower Upper

117 100

82 55.9 45.4 68.2

119 31.2 26.1 39.1



#71

Bromoform

Concen: 0.395 ug/l

RT: 10.805 min Scan# 1594

Delta R.T. 0.007 min

Lab File: VX047117.D

Acq: 24 Jul 2025 14:08

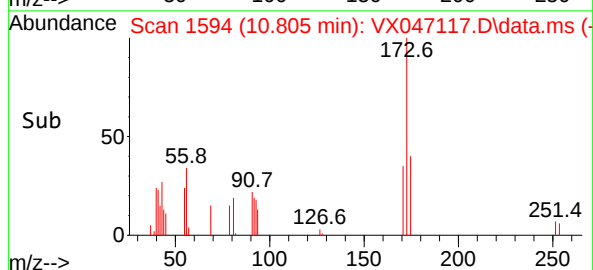
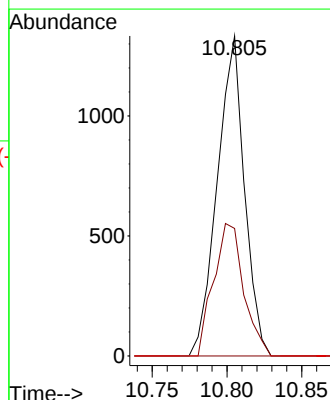
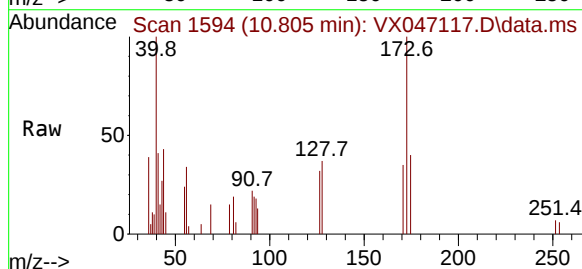
Tgt Ion:173 Resp: 1682

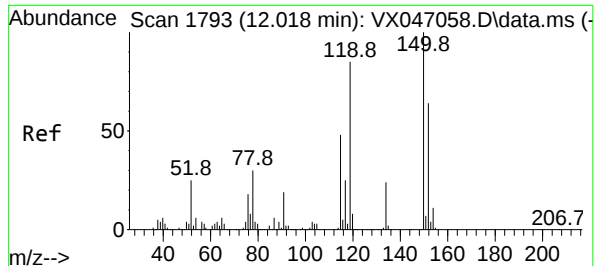
Ion Ratio Lower Upper

173 100

175 46.0 24.2 72.6

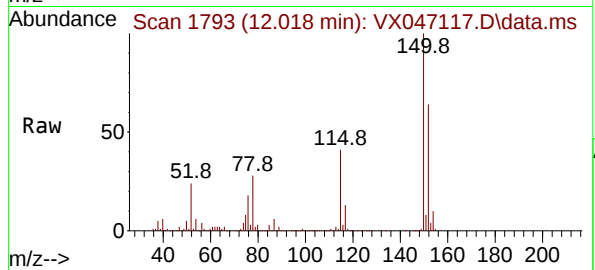
254 0.0 0.1 0.1#



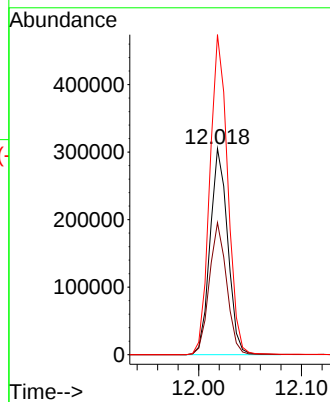
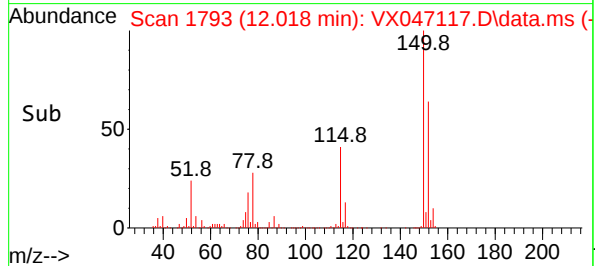


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX047117.D
Acq: 24 Jul 2025 14:08

Instrument :
MSVOA_X
ClientSampleId :
CC0627-AL



Tgt Ion:152 Resp: 363979
Ion Ratio Lower Upper
152 100
115 63.3 45.6 136.7
150 157.2 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047115.D
 Acq On : 24 Jul 2025 13:26
 Operator : JC/MD
 Sample : Q2481-13 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-CLOXPL

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 01:22:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.617	168	306378	50.000	ug/l	0.05
34) 1,4-Difluorobenzene	6.812	114	578026	50.000	ug/l	0.04
63) Chlorobenzene-d5	10.079	117	434831	50.000	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	12.030	152	264294	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.031	65	193518	50.706	ug/l	0.07
Spiked Amount 50.000	Range 78 - 117		Recovery = 101.420%			
35) Dibromofluoromethane	5.470	113	139773	39.164	ug/l	0.07
Spiked Amount 50.000	Range 75 - 124		Recovery = 78.320%			
50) Toluene-d8	8.671	98	648898	56.143	ug/l	0.02
Spiked Amount 50.000	Range 92 - 112		Recovery = 112.280%#			
62) 4-Bromofluorobenzene	11.091	95	235736	47.329	ug/l	0.01
Spiked Amount 50.000	Range 83 - 123		Recovery = 94.660%			
Target Compounds						
					Qvalue	
16) Acetone	2.398	43	631670m	413.153	ug/l	
41) Methacrylonitrile	5.062	41	840264m	286.679	ug/l	
52) Toluene	8.738	92	820403	75.785	ug/l	100

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

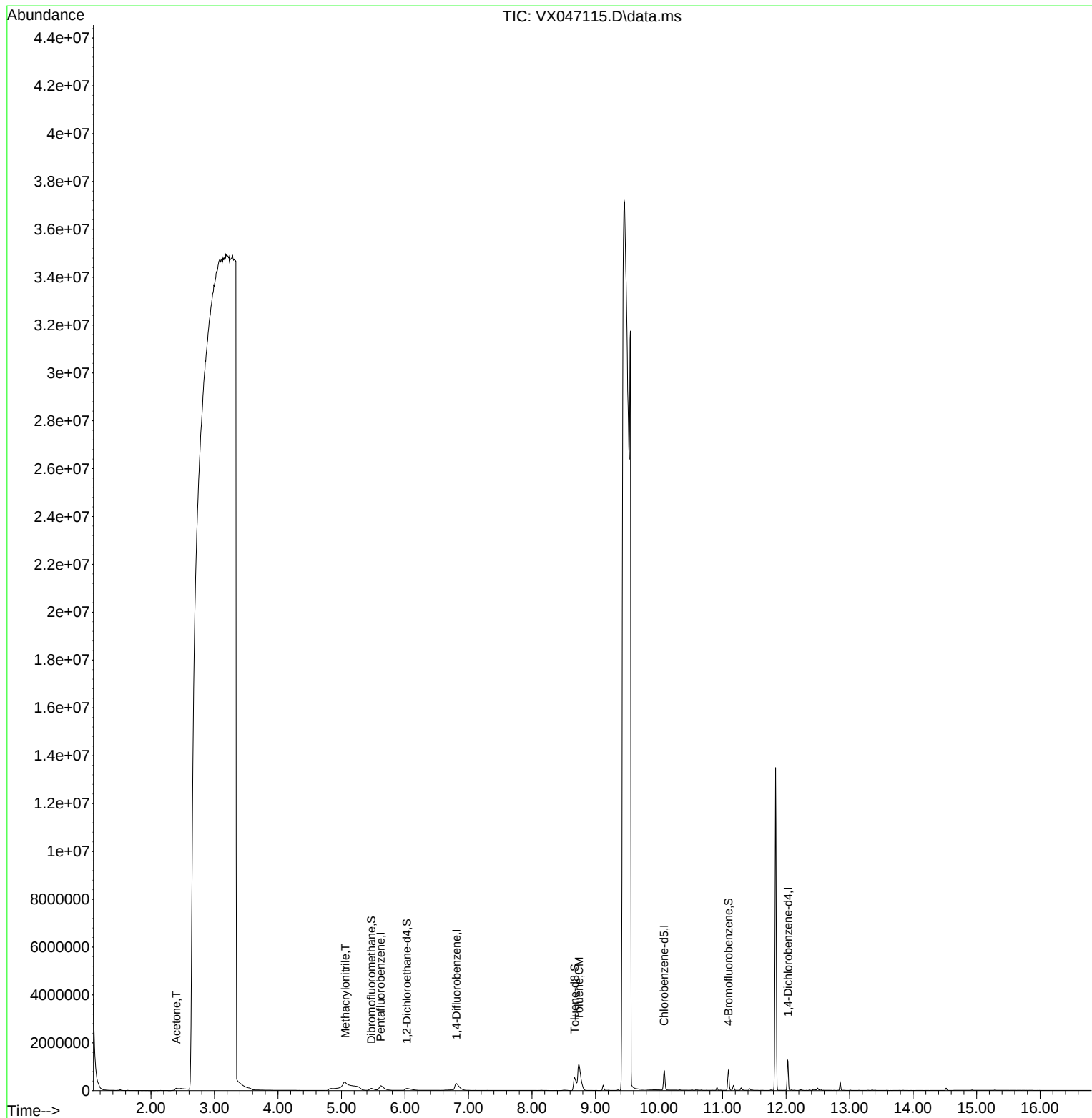
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047115.D
Acq On : 24 Jul 2025 13:26
Operator : JC/MD
Sample : Q2481-13 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

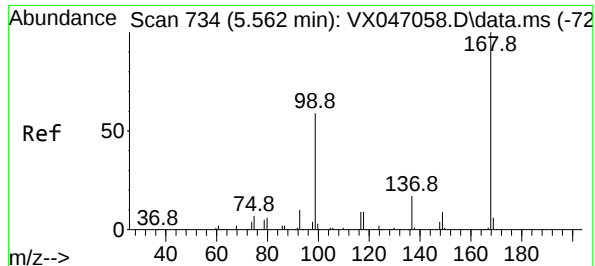
Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXPL

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/25/2025
Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 01:22:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration





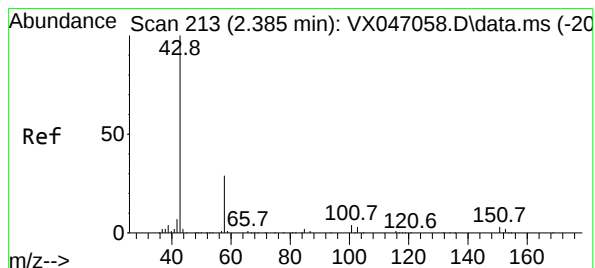
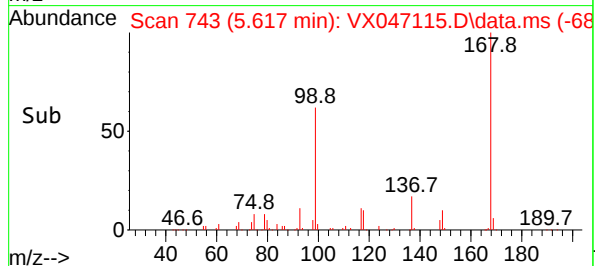
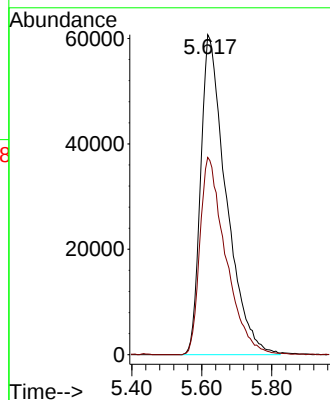
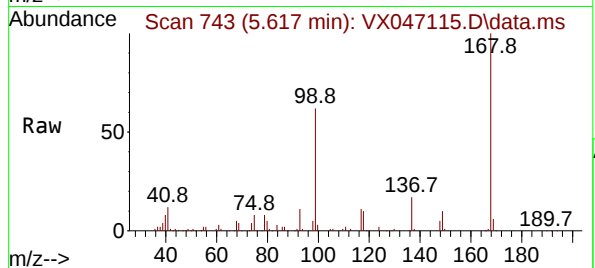
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.617 min Scan# 74
Delta R.T. 0.055 min
Lab File: VX047115.D
Acq: 24 Jul 2025 13:26

Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXPL

Tgt Ion:168 Resp: 306378
Ion Ratio Lower Upper
168 100
99 61.6 48.0 72.0

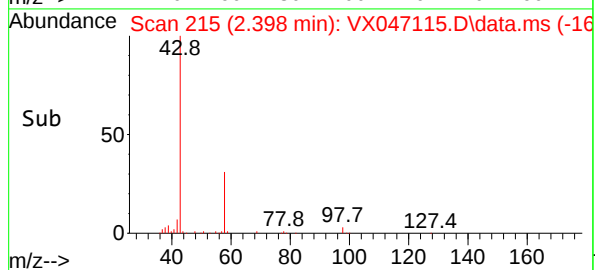
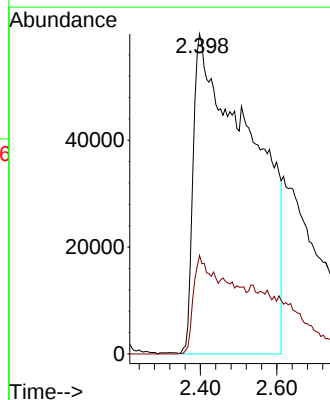
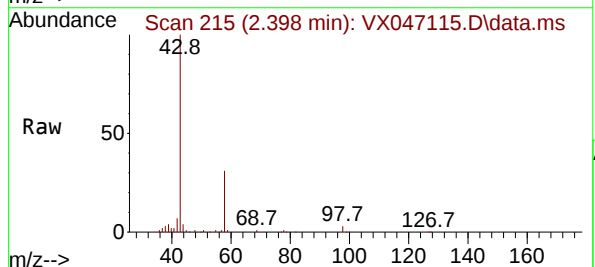
Manual Integrations
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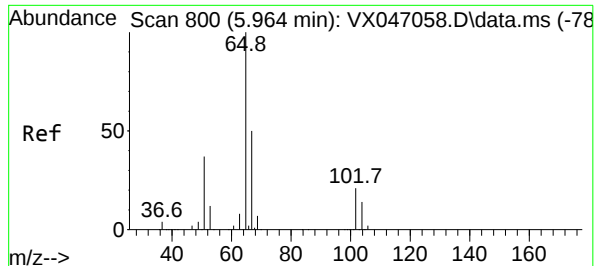
Reviewed By :John Carlone 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



#16
Acetone
Concen: 413.153 ug/l m
RT: 2.398 min Scan# 215
Delta R.T. 0.013 min
Lab File: VX047115.D
Acq: 24 Jul 2025 13:26

Tgt Ion: 43 Resp: 631670
Ion Ratio Lower Upper
43 100
58 30.8 24.0 36.0





#33

1,2-Dichloroethane-d4

Concen: 50.706 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.067 min

Lab File: VX047115.D

Acq: 24 Jul 2025 13:26

Tgt Ion: 65 Resp: 193518

Ion Ratio Lower Upper

65 100

67 51.8 0.0 104.8

Instrument :

MSVOA_X

ClientSampleId :

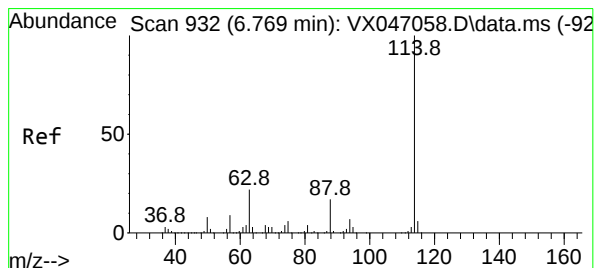
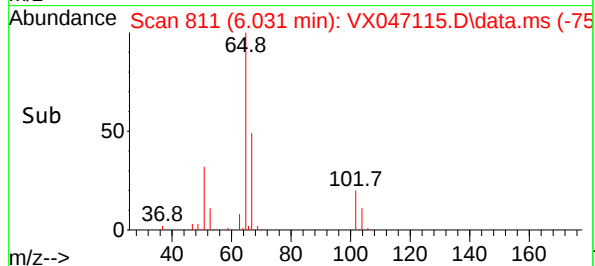
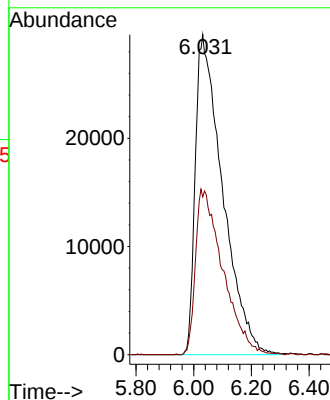
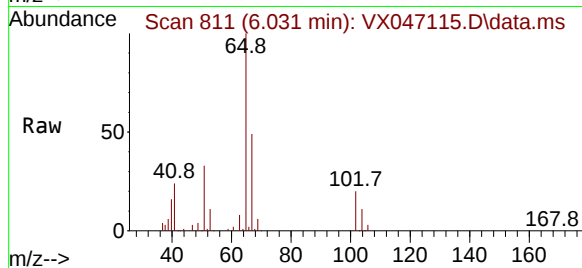
CC0627-CLOXPL

Manual Integrations

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Reviewed By :John Carlone 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.812 min Scan# 939

Delta R.T. 0.043 min

Lab File: VX047115.D

Acq: 24 Jul 2025 13:26

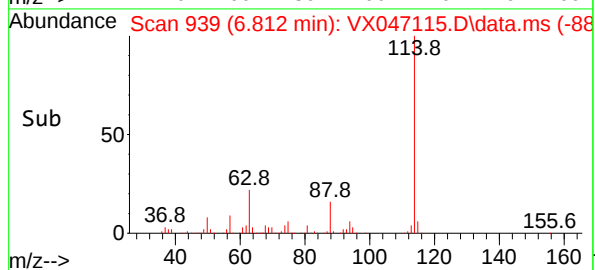
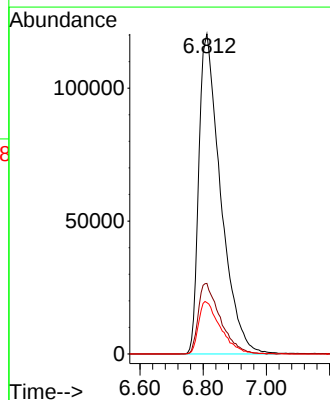
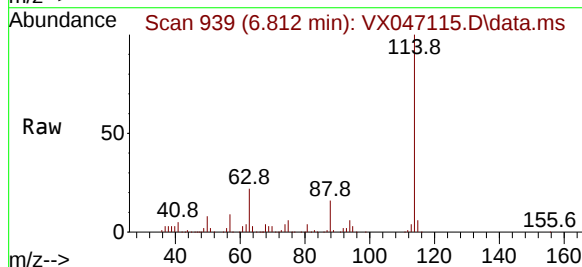
Tgt Ion:114 Resp: 578026

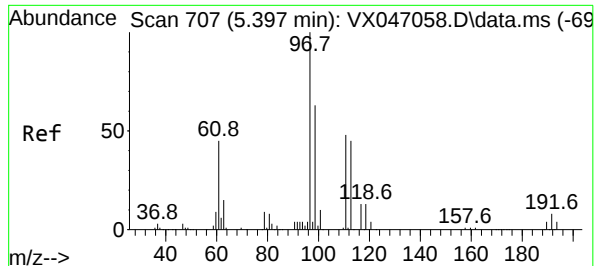
Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.2

88 16.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 39.164 ug/l

RT: 5.470 min Scan# 71

Delta R.T. 0.073 min

Lab File: VX047115.D

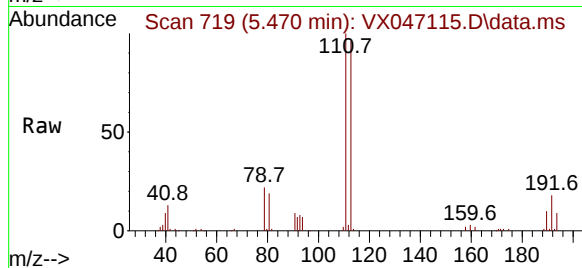
Acq: 24 Jul 2025 13:26

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXPL



Tgt Ion: 113 Resp: 13977

Ion Ratio Lower Upper

113 100

111 103.4 82.6 124.0

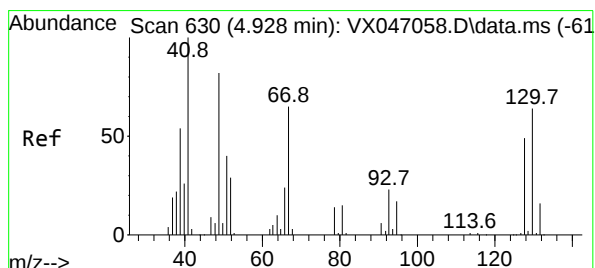
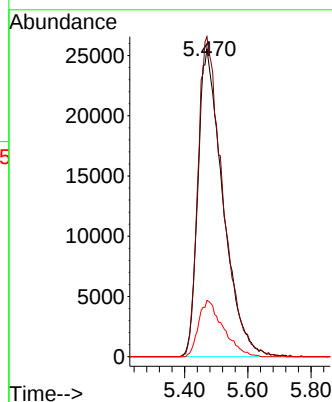
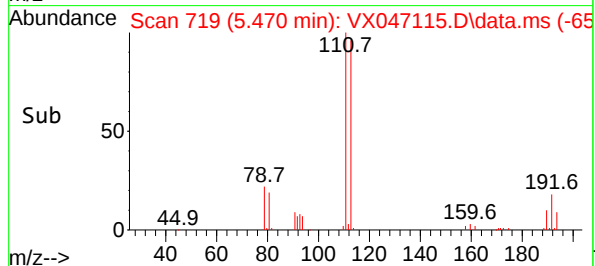
192 18.1 14.9 22.3

Manual Integrations

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Reviewed By :John Carlone 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#41

Methacrylonitrile

Concen: 286.679 ug/l m

RT: 5.062 min Scan# 652

Delta R.T. 0.134 min

Lab File: VX047115.D

Acq: 24 Jul 2025 13:26

Tgt Ion: 41 Resp: 840264

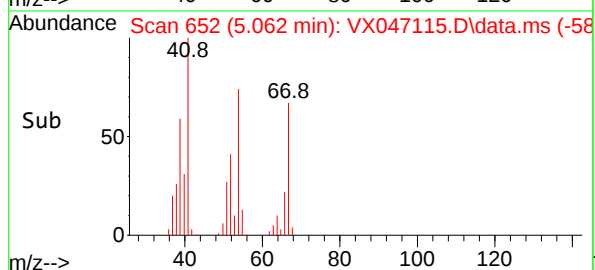
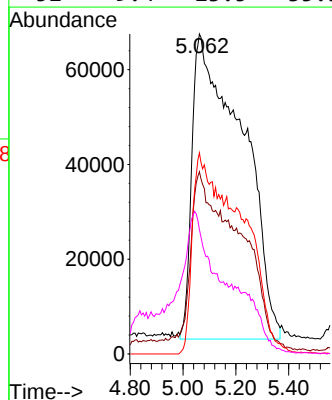
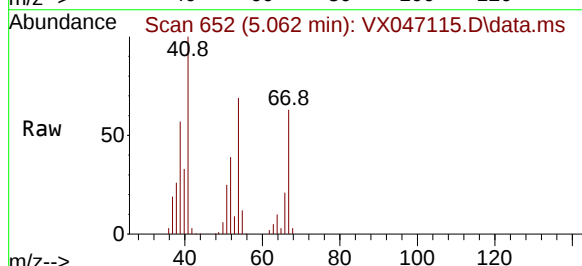
Ion Ratio Lower Upper

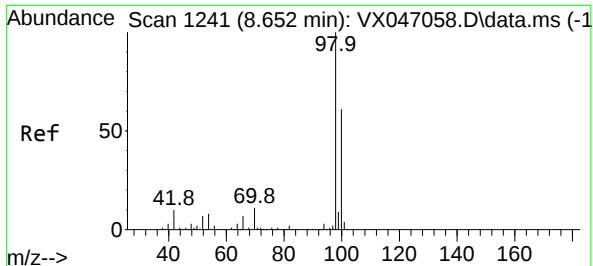
41 100

39 28.6 44.2 66.2#

67 43.3 56.4 84.6#

52 9.4 23.5 35.3#





#50

Toluene-d8

Concen: 56.143 ug/l

RT: 8.671 min Scan# 1244

Delta R.T. 0.019 min

Lab File: VX047115.D

Acq: 24 Jul 2025 13:26

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXPL

Tgt Ion: 98 Resp: 648898

Ion Ratio Lower Upper

98 100

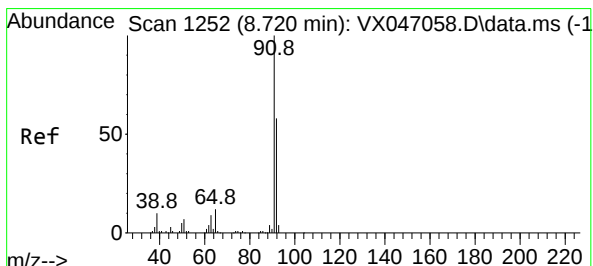
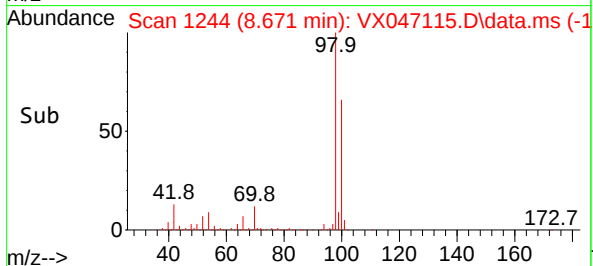
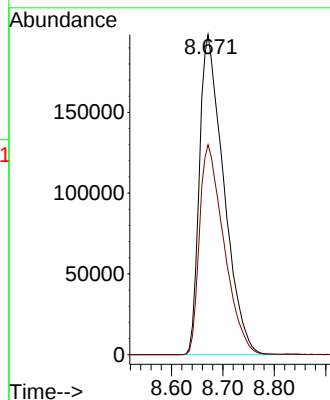
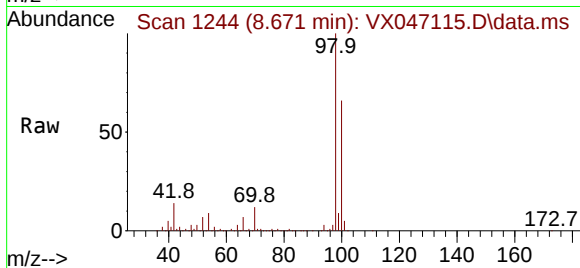
100 66.2 53.3 79.9

Manual Integrations

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Reviewed By :John Carlone 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



#52

Toluene

Concen: 75.785 ug/l

RT: 8.738 min Scan# 1255

Delta R.T. 0.019 min

Lab File: VX047115.D

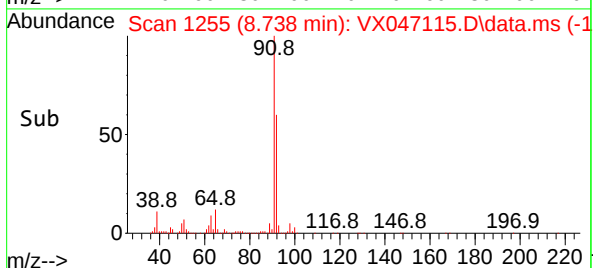
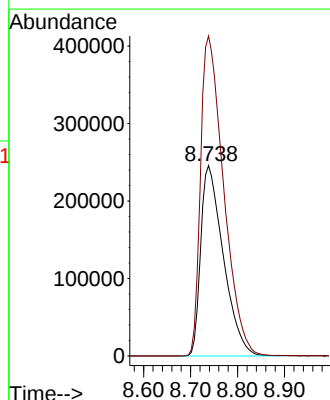
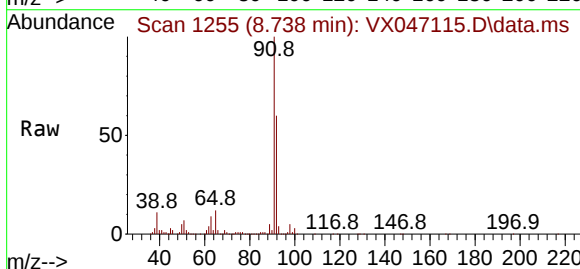
Acq: 24 Jul 2025 13:26

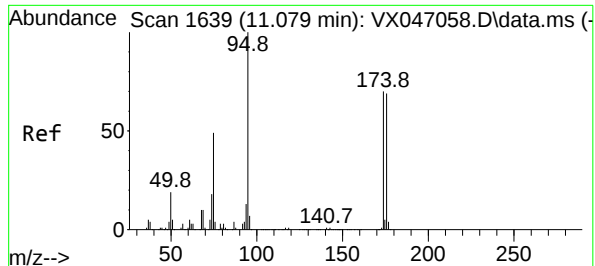
Tgt Ion: 92 Resp: 820403

Ion Ratio Lower Upper

92 100

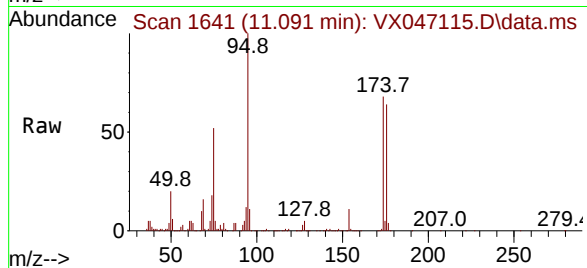
91 171.9 137.9 206.9





#62
4-Bromofluorobenzene
Concen: 47.329 ug/l
RT: 11.091 min Scan# 1641
Delta R.T. 0.013 min
Lab File: VX047115.D
Acq: 24 Jul 2025 13:26

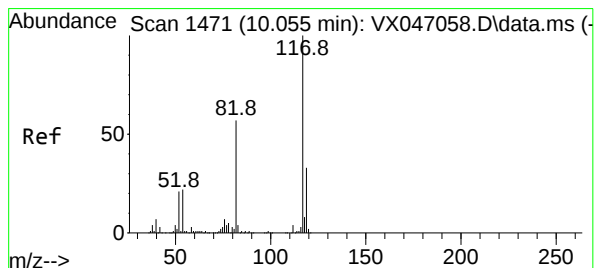
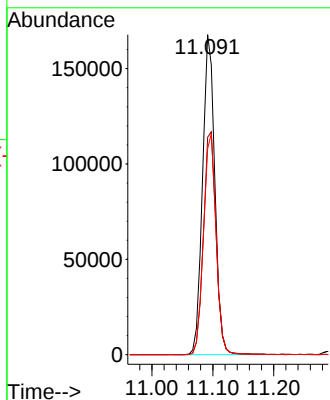
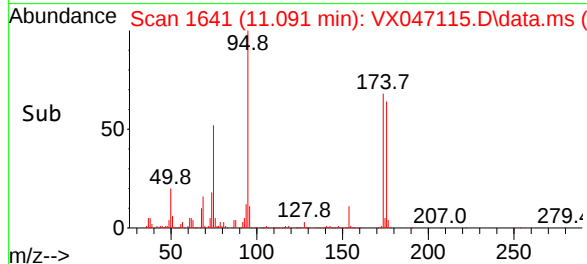
Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXPL



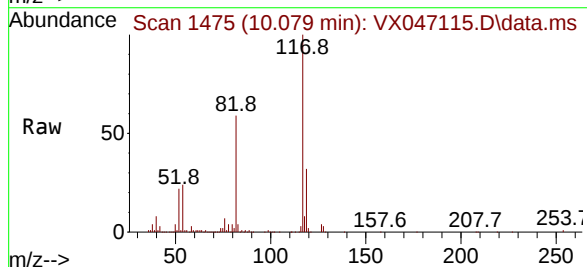
Tgt Ion: 95 Resp: 235730
Ion Ratio Lower Upper
95 100
174 71.7 0.0 144.6
176 70.7 0.0 139.6

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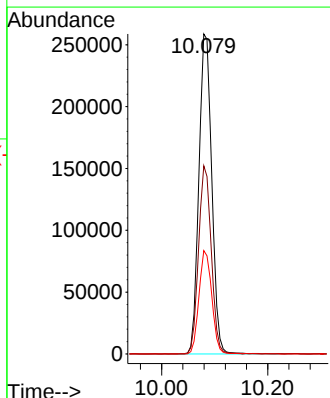
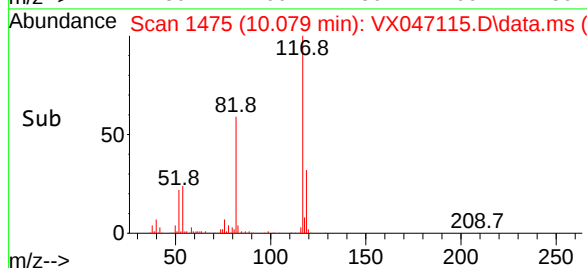
Reviewed By :John Carlone 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

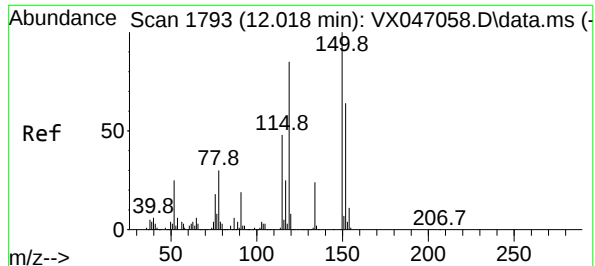


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.025 min
Lab File: VX047115.D
Acq: 24 Jul 2025 13:26



Tgt Ion:117 Resp: 434831
Ion Ratio Lower Upper
117 100
82 58.7 45.4 68.2
119 32.3 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.030 min Scan# 11

Delta R.T. 0.013 min

Lab File: VX047115.D

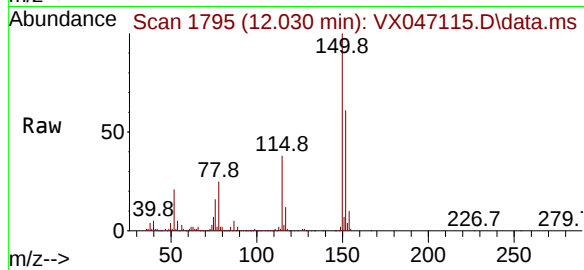
Acq: 24 Jul 2025 13:26

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXPL



Tgt Ion:152 Resp: 264294

Ion Ratio Lower Upper

152 100

115 63.1 45.6 136.7

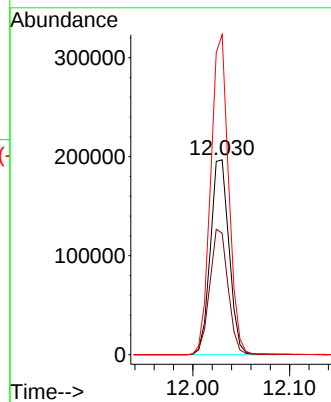
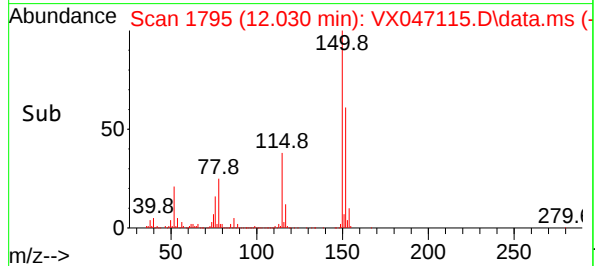
150 158.1 0.0 354.6

Manual Integrations

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Reviewed By :John Carlone 07/25/2025

Supervised By :Mahesh Dadoda 07/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047114.D
Acq On : 24 Jul 2025 13:06
Operator : JC/MD
Sample : Q2481-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0625-OXBL

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jul 25 01:22:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

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

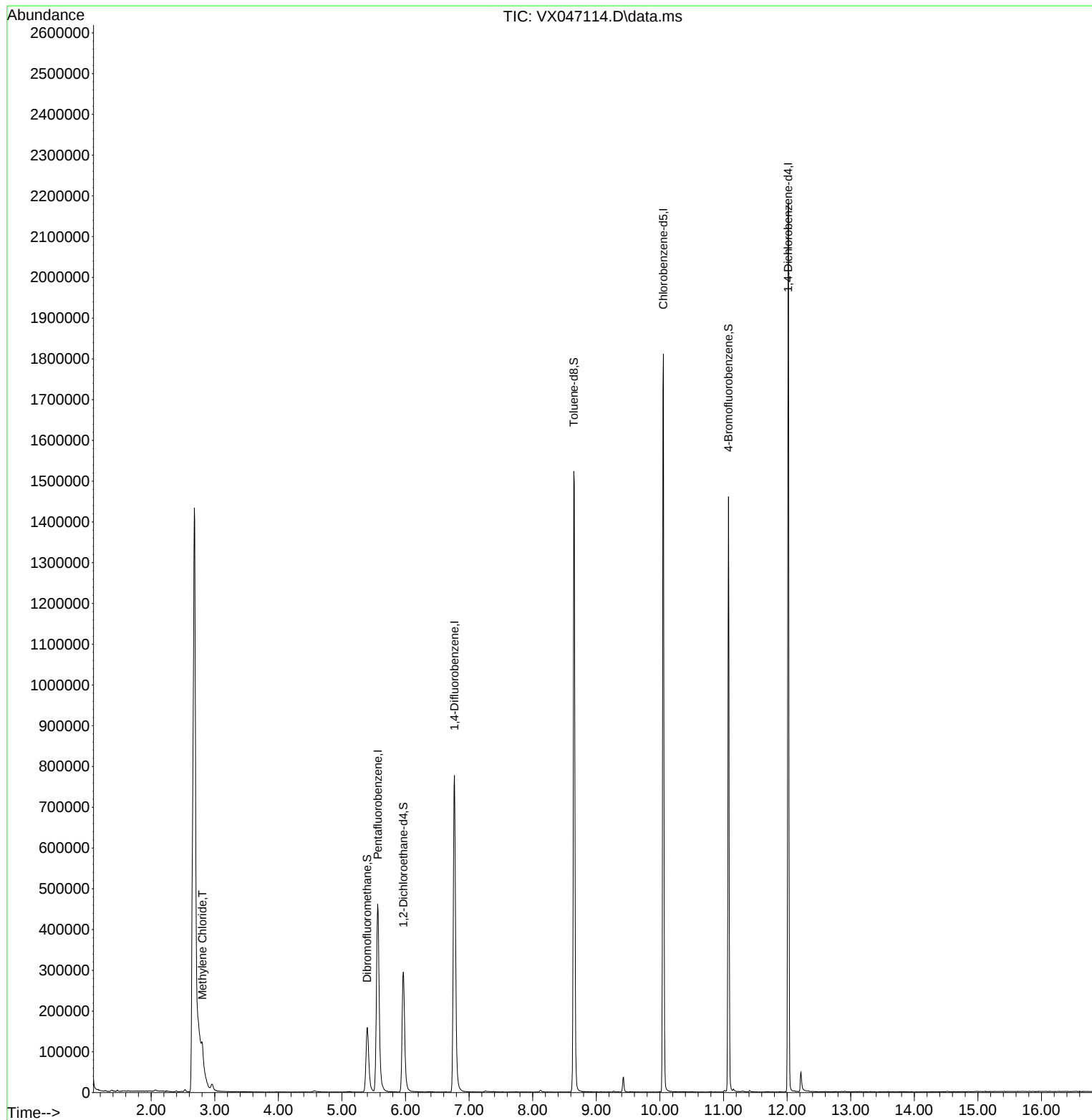
Internal Standards						
1) Pentafluorobenzene	5.562	168	452175	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	826688	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	795791	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	405857	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	314379	55.813	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	111.620%
35) Dibromofluoromethane	5.397	113	150580	29.501	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	59.000%#
50) Toluene-d8	8.647	98	928052	56.144	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	112.280%#
62) 4-Bromofluorobenzene	11.079	95	382770	53.733	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	107.460%
Target Compounds						
						Qvalue
20) Methylene Chloride	2.806	84	16950	2.730	ug/l	95

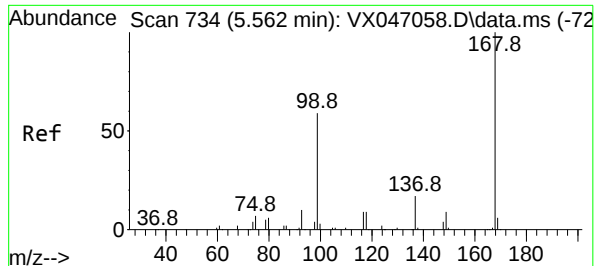
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047114.D
Acq On : 24 Jul 2025 13:06
Operator : JC/MD
Sample : Q2481-14 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0625-OXBL

Quant Time: Jul 25 01:22:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

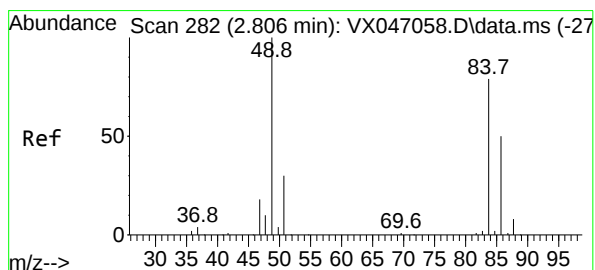
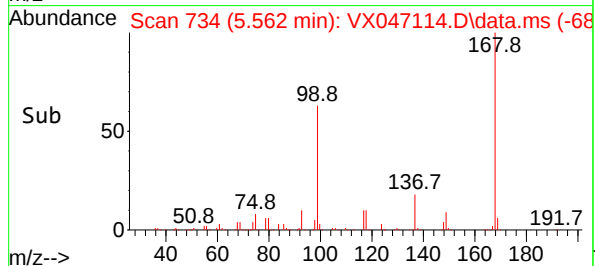
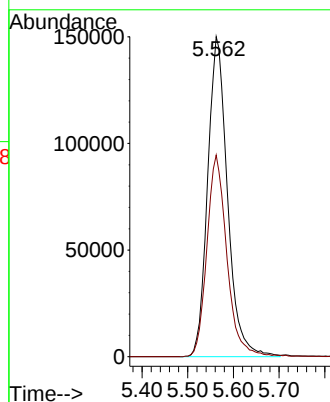
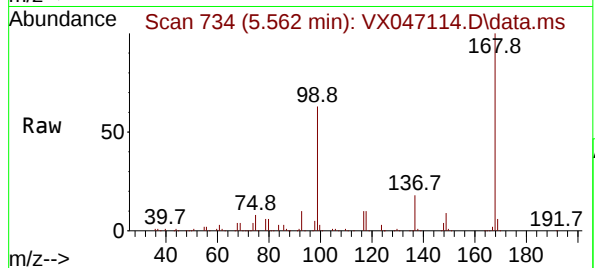




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047114.D
Acq: 24 Jul 2025 13:06

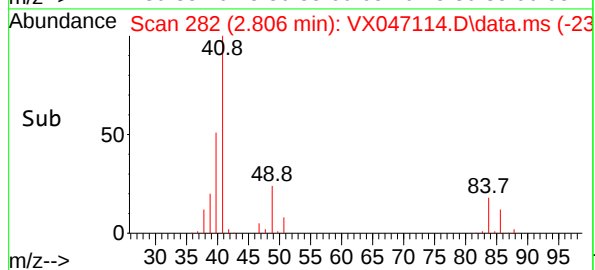
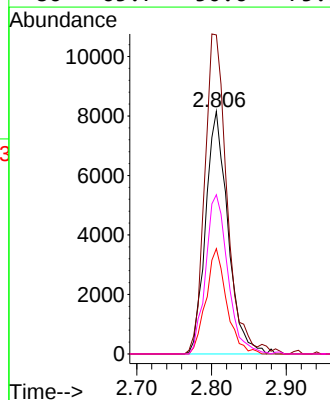
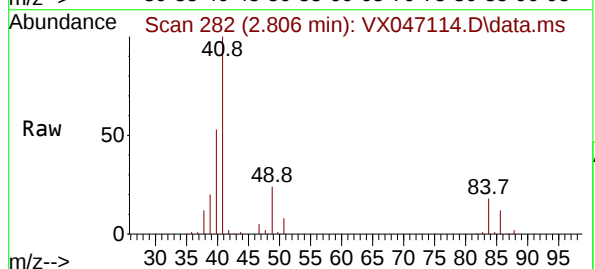
Instrument :
MSVOA_X
ClientSampleId :
CC0625-OXBL

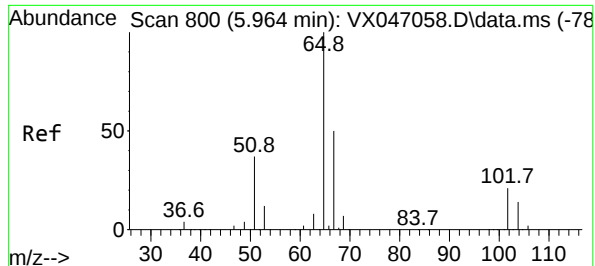
Tgt Ion:168 Resp: 452175
Ion Ratio Lower Upper
168 100
99 63.0 48.0 72.0



#20
Methylene Chloride
Concen: 2.730 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047114.D
Acq: 24 Jul 2025 13:06

Tgt Ion: 84 Resp: 16950
Ion Ratio Lower Upper
84 100
49 131.6 101.6 152.4
51 43.4 30.3 45.5
86 65.7 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 55.813 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047114.D

Acq: 24 Jul 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

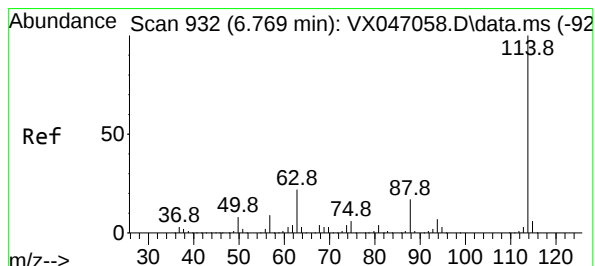
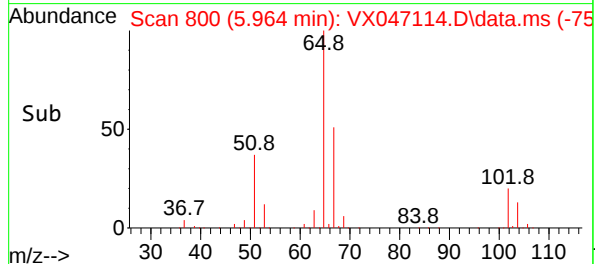
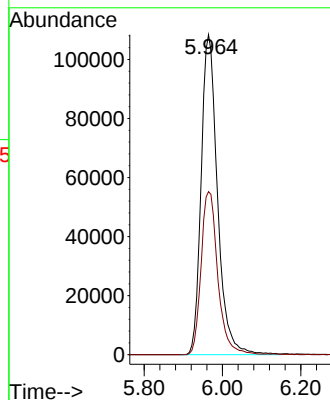
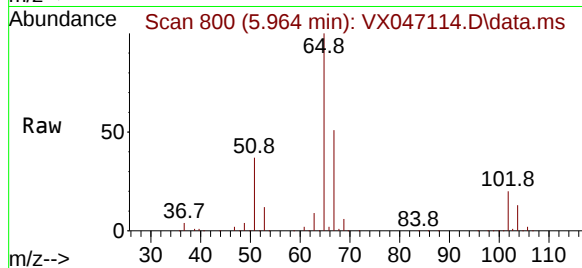
CC0625-OXBL

Tgt Ion: 65 Resp: 314379

Ion Ratio Lower Upper

65 100

67 52.0 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047114.D

Acq: 24 Jul 2025 13:06

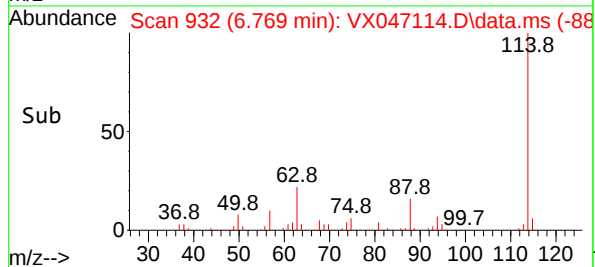
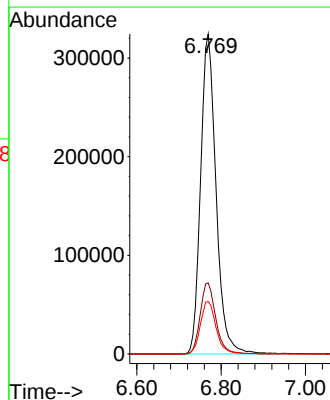
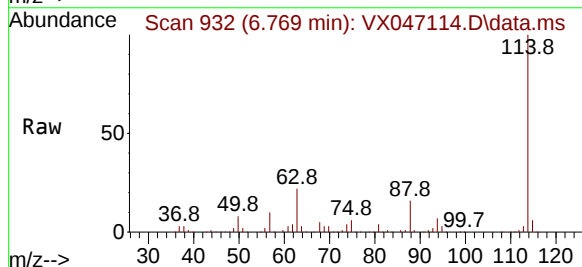
Tgt Ion: 114 Resp: 826688

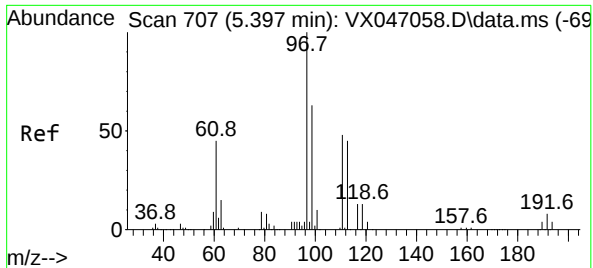
Ion Ratio Lower Upper

114 100

63 22.2 0.0 43.2

88 16.4 0.0 33.8





#35

Dibromofluoromethane

Concen: 29.501 ug/l

RT: 5.397 min Scan# 70

Delta R.T. 0.000 min

Lab File: VX047114.D

Acq: 24 Jul 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

CC0625-OXBL

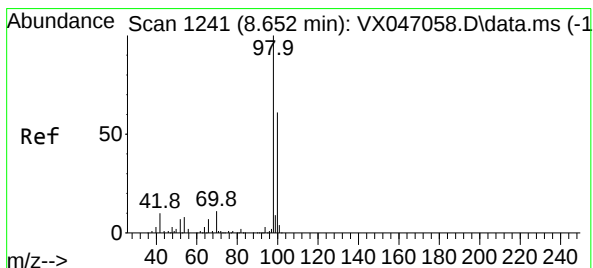
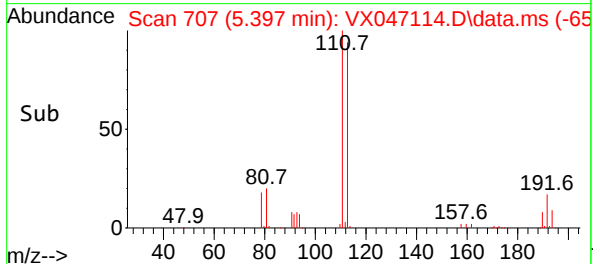
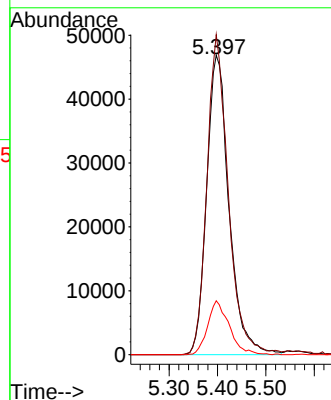
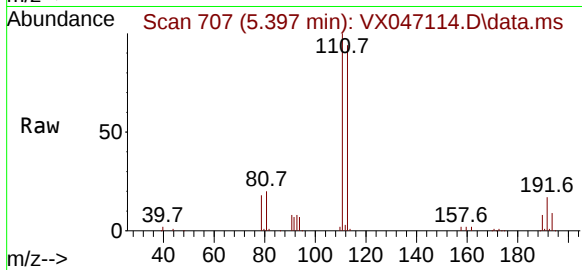
Tgt Ion:113 Resp: 150580

Ion Ratio Lower Upper

113 100

111 101.5 82.6 124.0

192 17.4 14.9 22.3



#50

Toluene-d8

Concen: 56.144 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047114.D

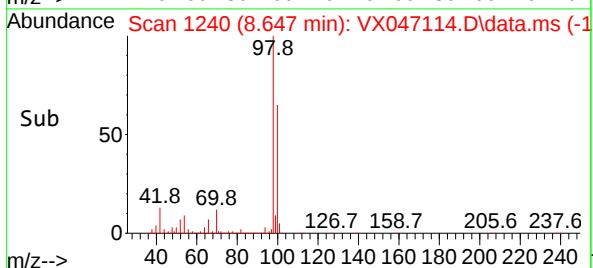
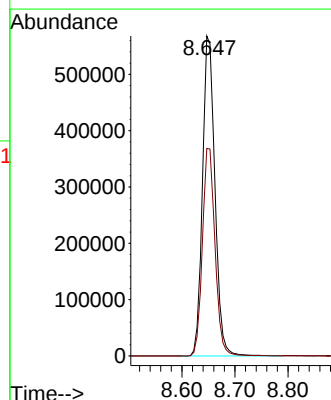
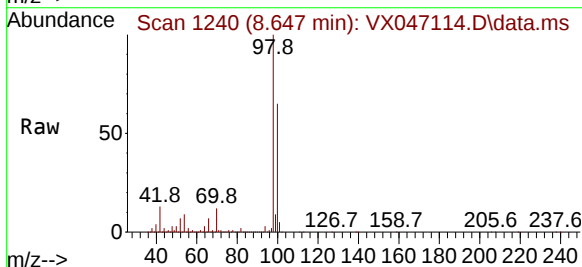
Acq: 24 Jul 2025 13:06

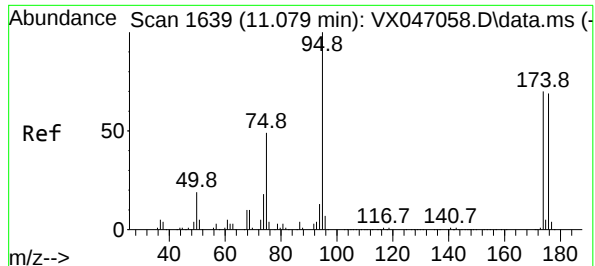
Tgt Ion: 98 Resp: 928052

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9

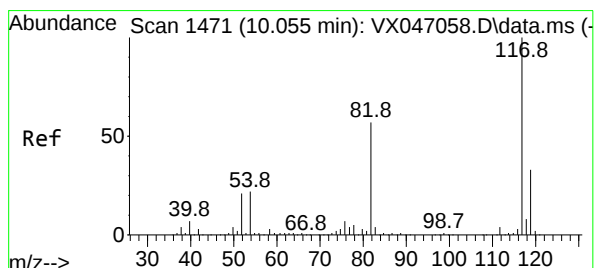
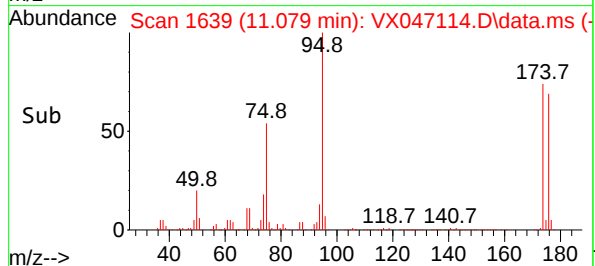
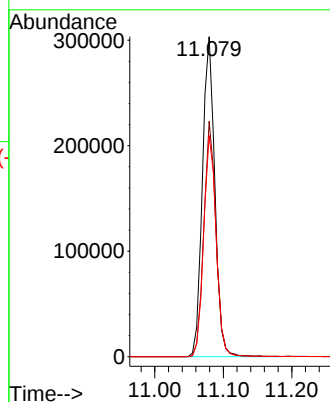
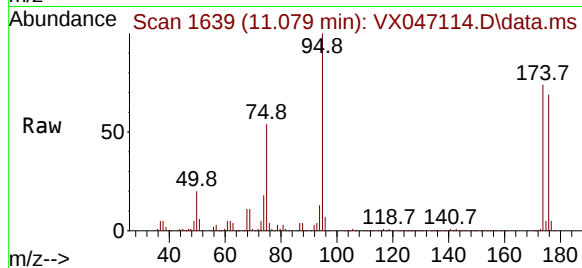




#62
4-Bromofluorobenzene
Concen: 53.733 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047114.D
Acq: 24 Jul 2025 13:06

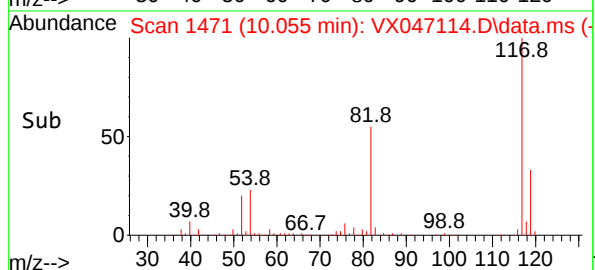
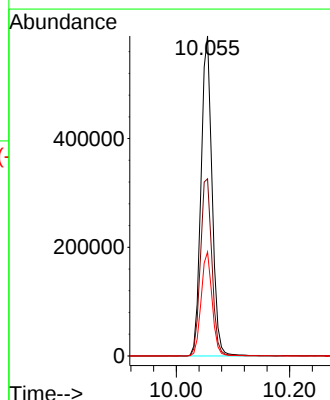
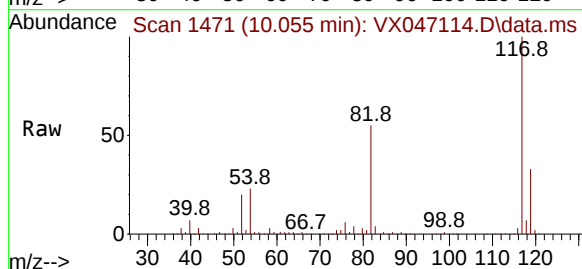
Instrument :
MSVOA_X
ClientSampleId :
CC0625-OXBL

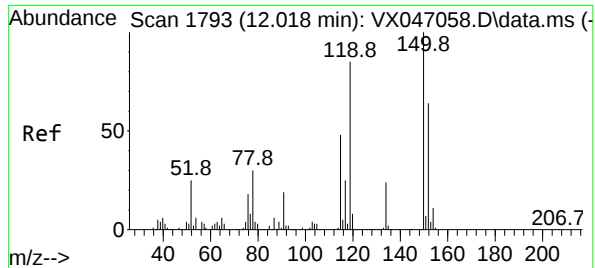
Tgt Ion: 95 Resp: 382770
Ion Ratio Lower Upper
95 100
174 72.0 0.0 144.6
176 69.7 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047114.D
Acq: 24 Jul 2025 13:06

Tgt Ion: 117 Resp: 795791
Ion Ratio Lower Upper
117 100
82 55.3 45.4 68.2
119 32.5 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047114.D

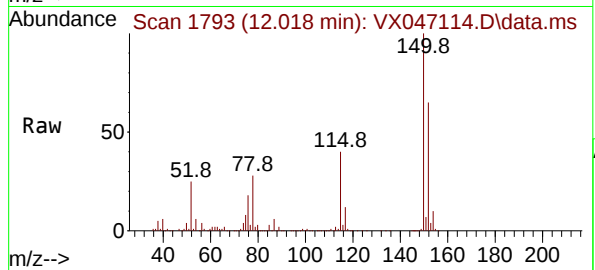
Acq: 24 Jul 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

CC0625-OXBL



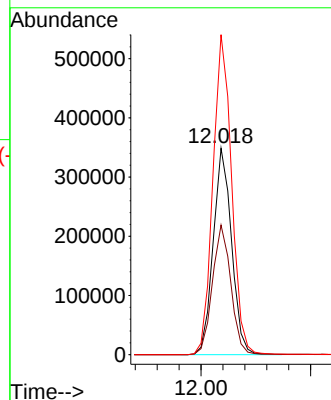
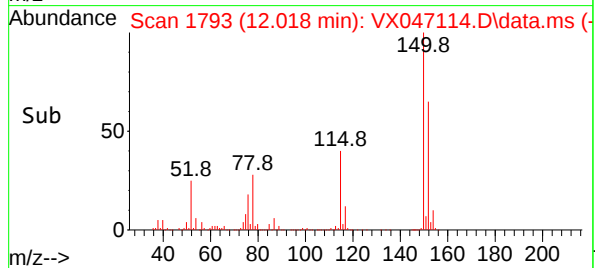
Tgt Ion:152 Resp: 405857

Ion Ratio Lower Upper

152 100

115 63.1 45.6 136.7

150 158.2 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047118.D
 Acq On : 24 Jul 2025 14:29
 Operator : JC/MD
 Sample : Q2481-15 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-AOXL

Quant Time: Jul 25 01:58:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

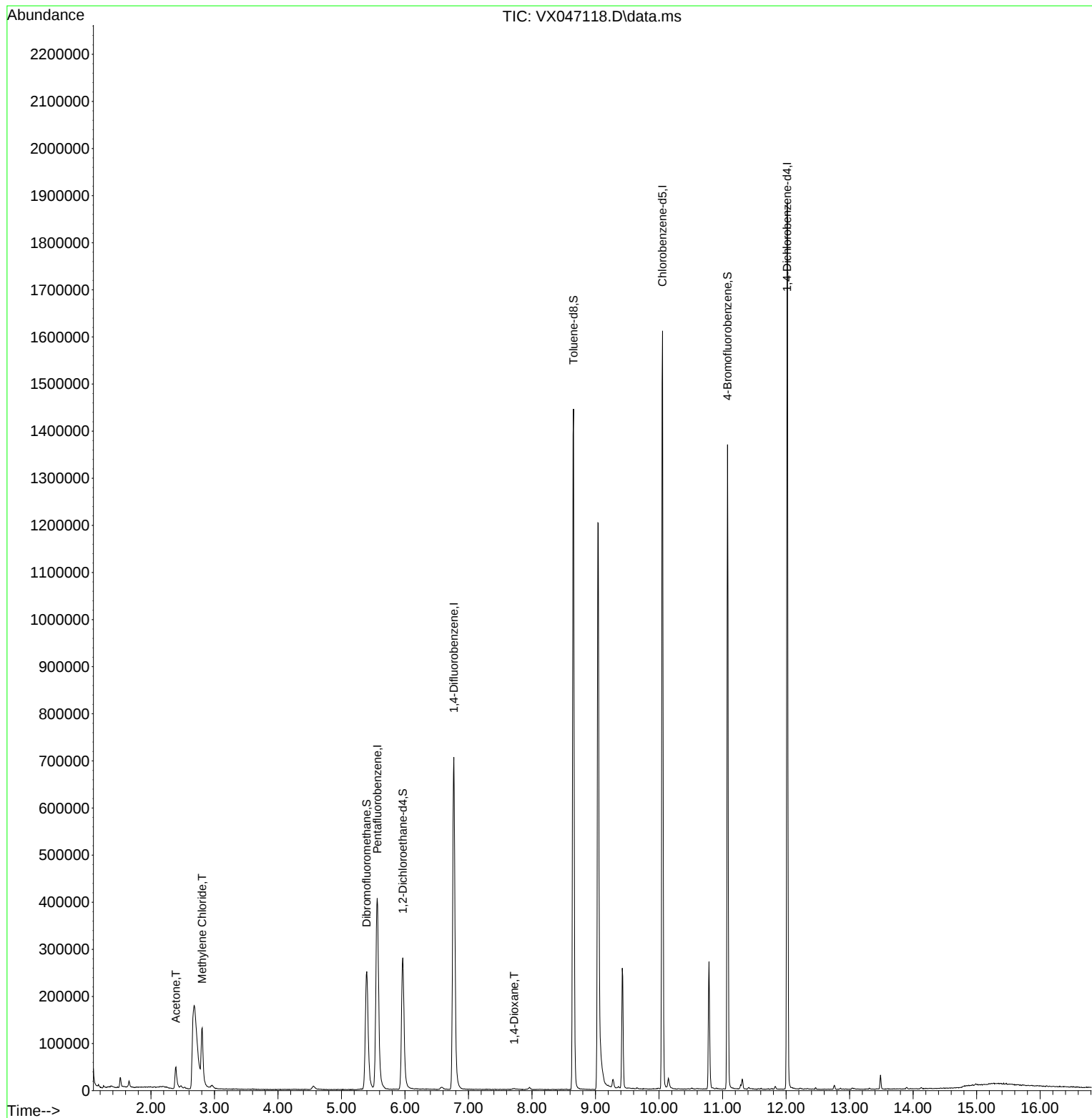
Internal Standards						
1) Pentafluorobenzene	5.562	168	401016	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	749846	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	708181	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	355368	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	297329	59.521	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 119.040%	#
35) Dibromofluoromethane	5.397	113	238248	51.460	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.920%	
50) Toluene-d8	8.653	98	867547	57.862	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 115.720%	#
62) 4-Bromofluorobenzene	11.079	95	359727	55.674	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 111.340%	
Target Compounds						
						Qvalue
16) Acetone	2.392	43	67495	33.728	ug/l	96
20) Methylene Chloride	2.806	84	55826	10.140	ug/l	99
49) 1,4-Dioxane	7.720	88	2646	37.669	ug/l #	69

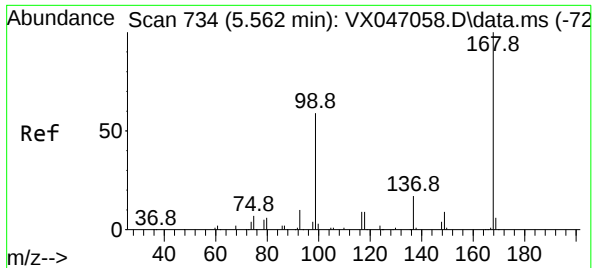
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047118.D
Acq On : 24 Jul 2025 14:29
Operator : JC/MD
Sample : Q2481-15 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0627-AOXL

Quant Time: Jul 25 01:58:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

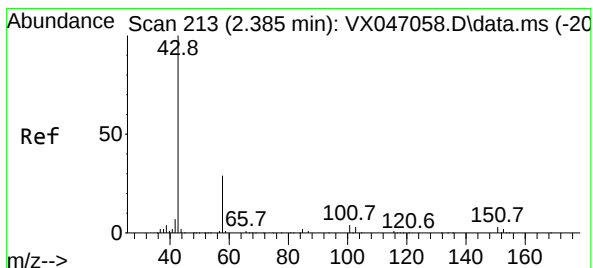
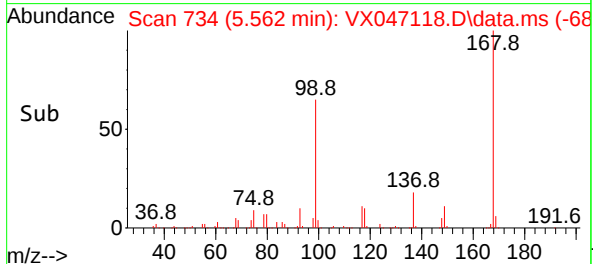
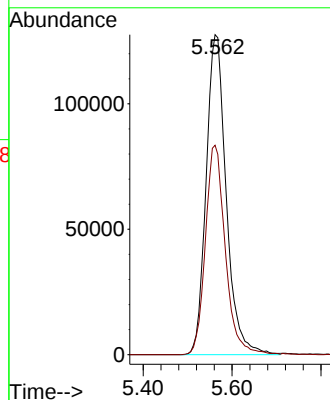
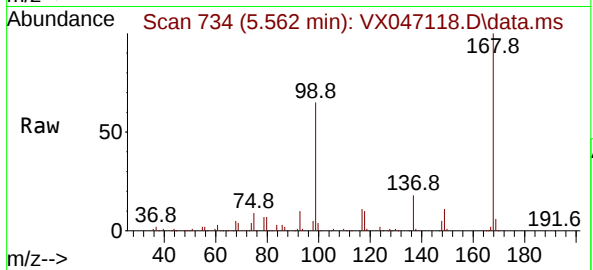




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047118.D
Acq: 24 Jul 2025 14:29

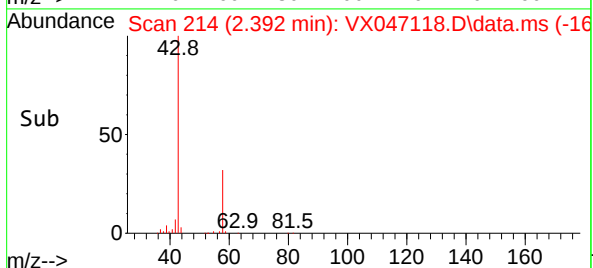
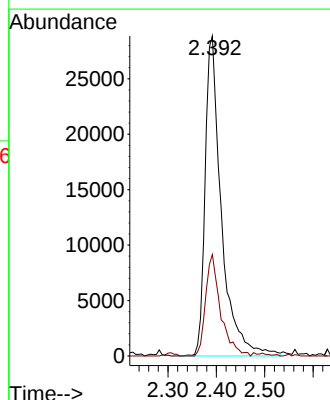
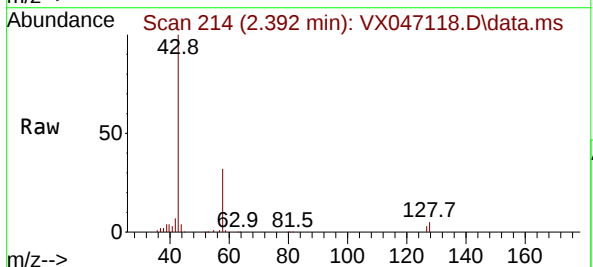
Instrument :
MSVOA_X
ClientSampleId :
CC0627-AOXL

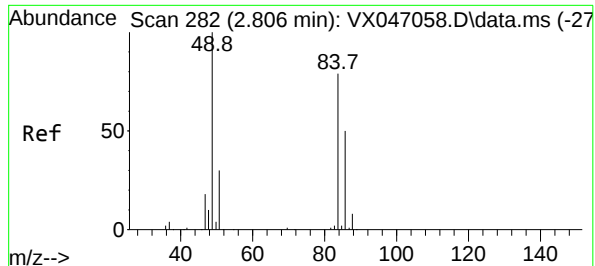
Tgt Ion:168 Resp: 401016
Ion Ratio Lower Upper
168 100
99 65.5 48.0 72.0



#16
Acetone
Concen: 33.728 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047118.D
Acq: 24 Jul 2025 14:29

Tgt Ion: 43 Resp: 67495
Ion Ratio Lower Upper
43 100
58 32.2 24.0 36.0





#20

Methylene Chloride

Concen: 10.140 ug/l

RT: 2.806 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AOXL

Tgt Ion: 84 Resp: 55826

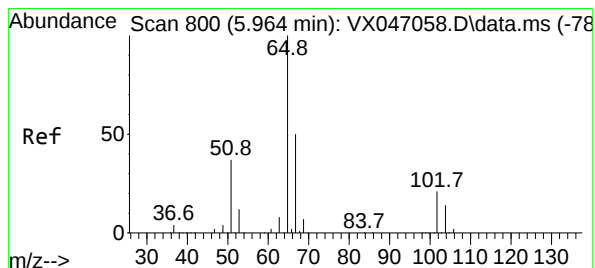
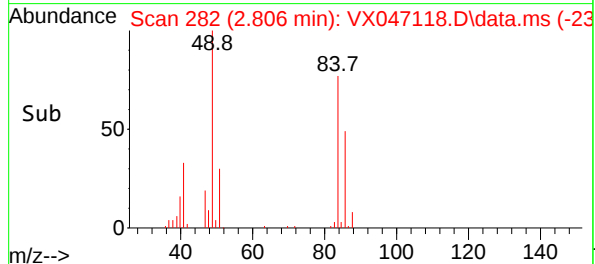
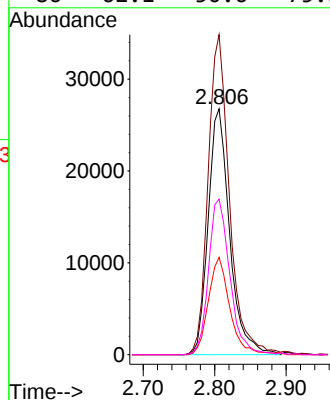
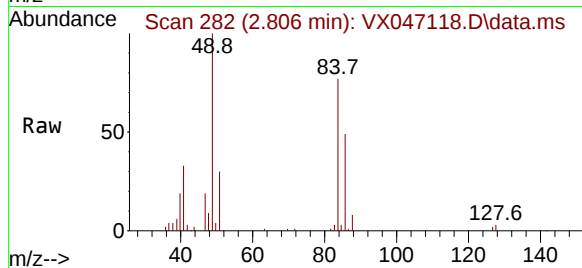
Ion Ratio Lower Upper

84 100

49 125.6 101.6 152.4

51 38.2 30.3 45.5

86 62.1 50.6 75.8



#33

1,2-Dichloroethane-d4

Concen: 59.521 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047118.D

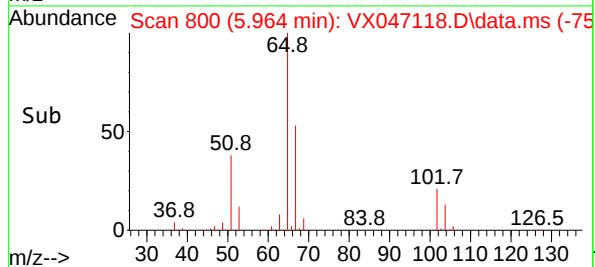
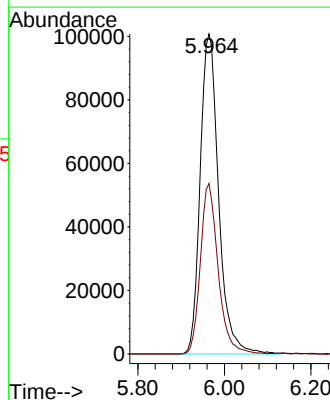
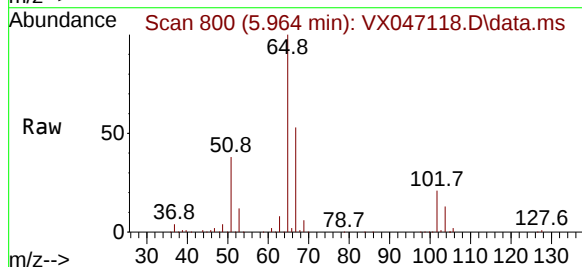
Acq: 24 Jul 2025 14:29

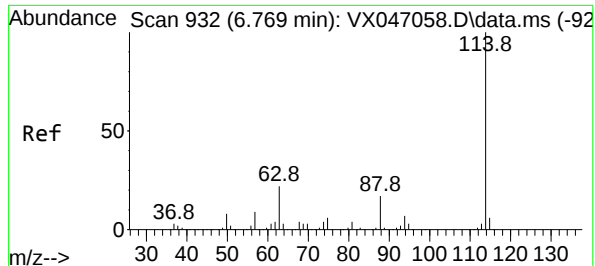
Tgt Ion: 65 Resp: 297329

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AOXL

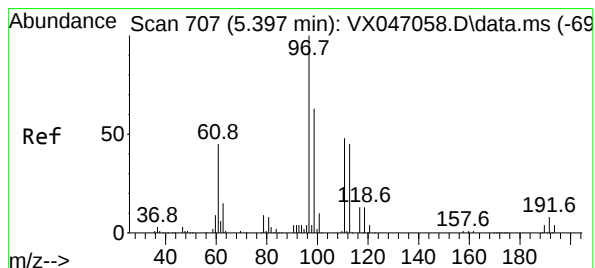
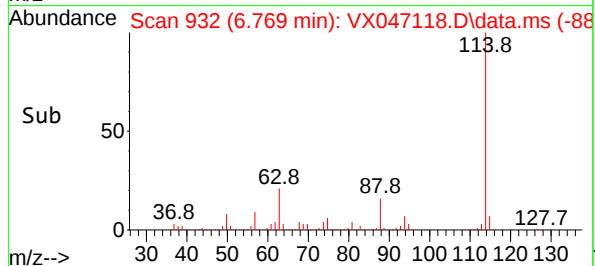
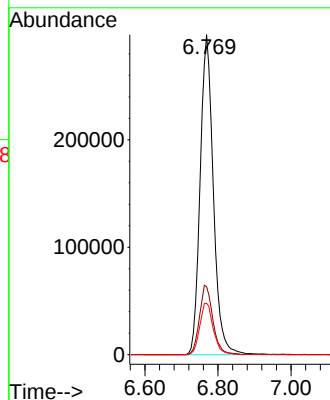
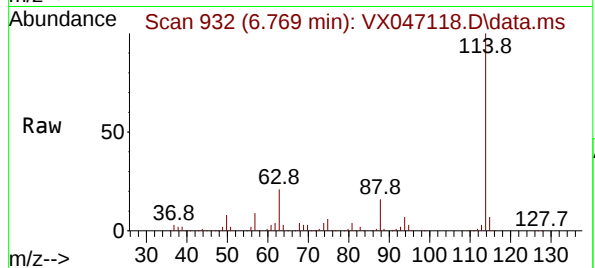
Tgt Ion:114 Resp: 749846

Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

88 16.0 0.0 33.8



#35

Dibromofluoromethane

Concen: 51.460 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

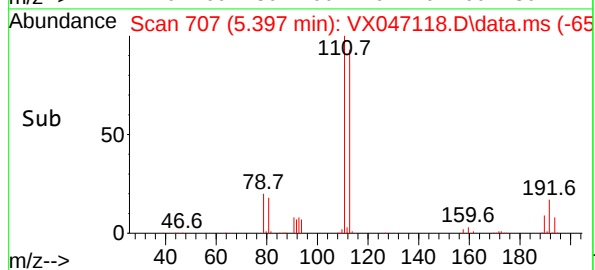
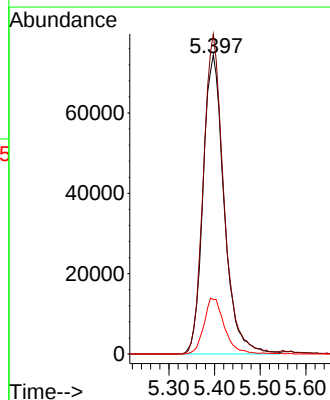
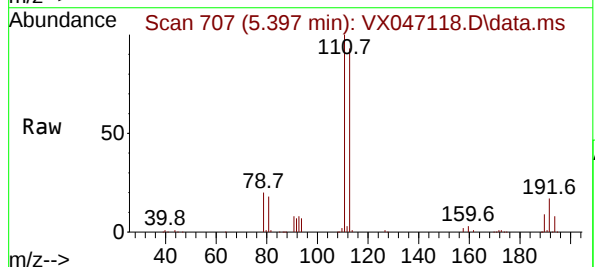
Tgt Ion:113 Resp: 238248

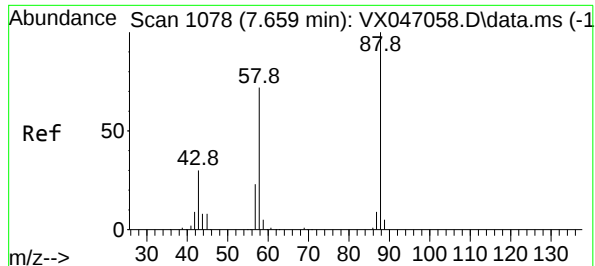
Ion Ratio Lower Upper

113 100

111 103.8 82.6 124.0

192 18.0 14.9 22.3





#49

1,4-Dioxane

Concen: 37.669 ug/l

RT: 7.720 min Scan# 1088

Delta R.T. 0.061 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AOXL

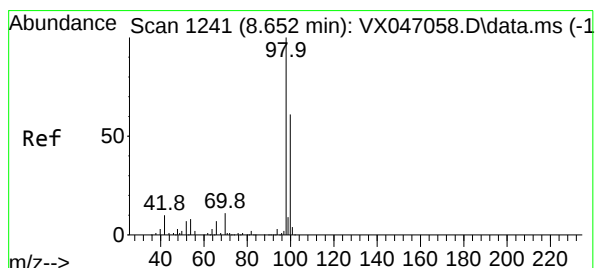
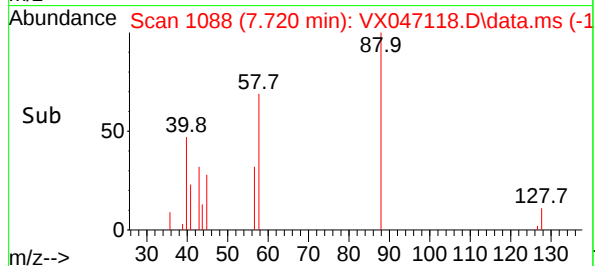
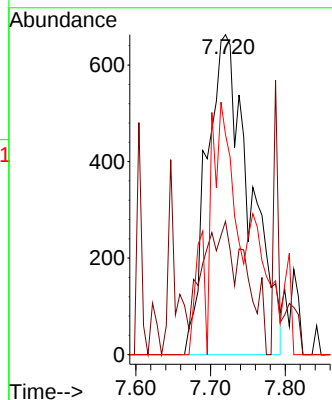
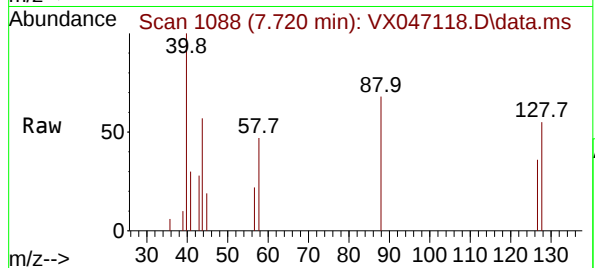
Tgt Ion: 88 Resp: 2646

Ion Ratio Lower Upper

88 100

43 21.2 33.6 50.4#

58 48.9 58.8 88.2#



#50

Toluene-d8

Concen: 57.862 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047118.D

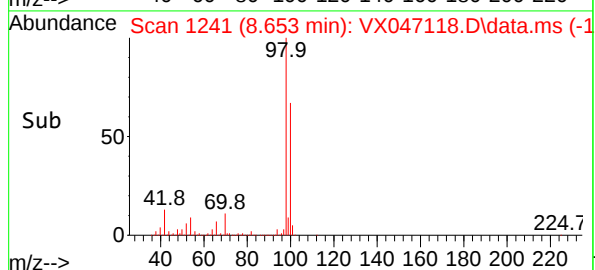
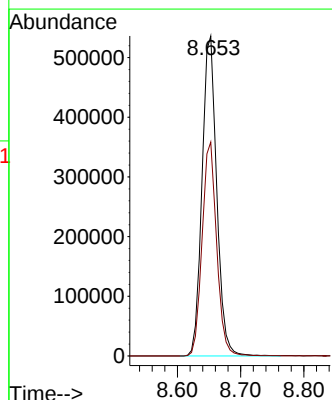
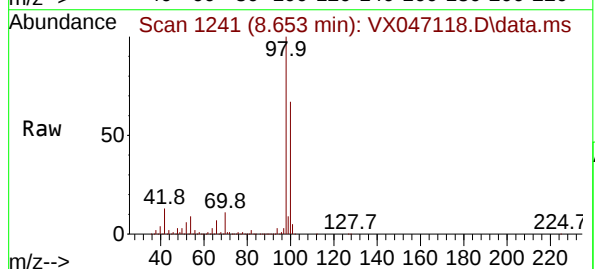
Acq: 24 Jul 2025 14:29

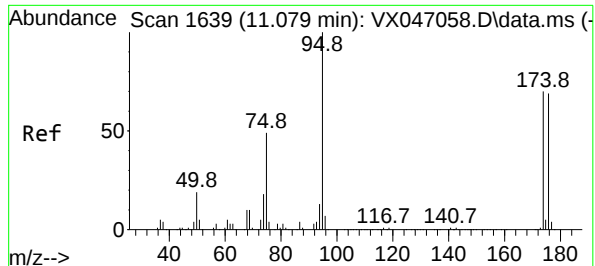
Tgt Ion: 98 Resp: 867547

Ion Ratio Lower Upper

98 100

100 66.4 53.3 79.9





#62

4-Bromofluorobenzene

Concen: 55.674 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AOXL

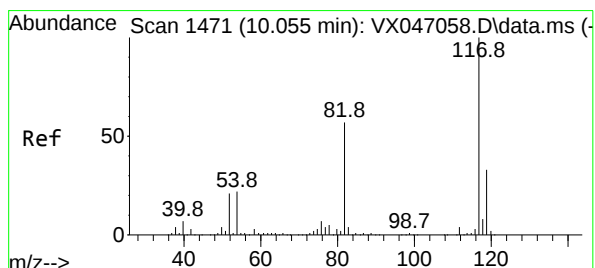
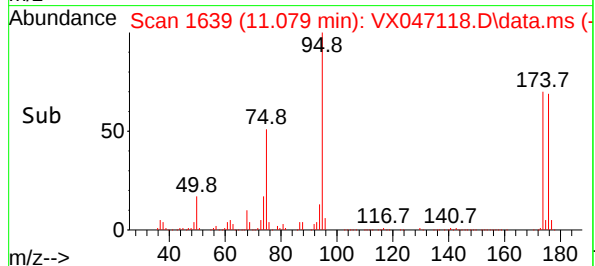
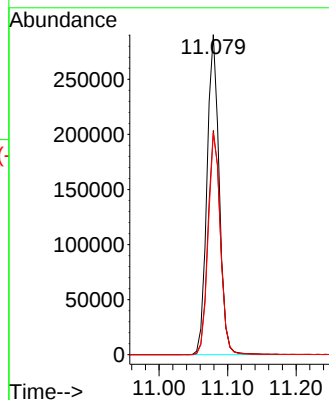
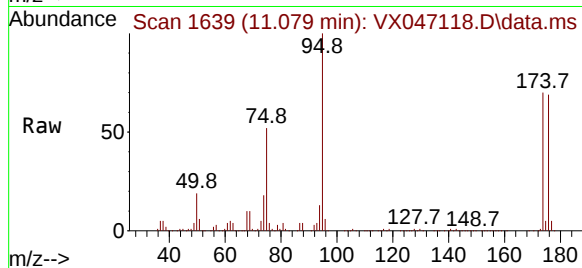
Tgt Ion: 95 Resp: 359727

Ion Ratio Lower Upper

95 100

174 71.2 0.0 144.6

176 69.5 0.0 139.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047118.D

Acq: 24 Jul 2025 14:29

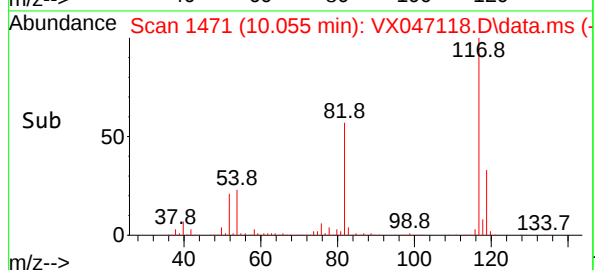
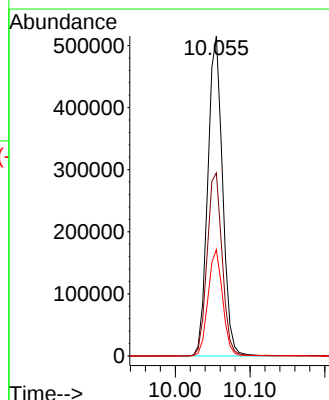
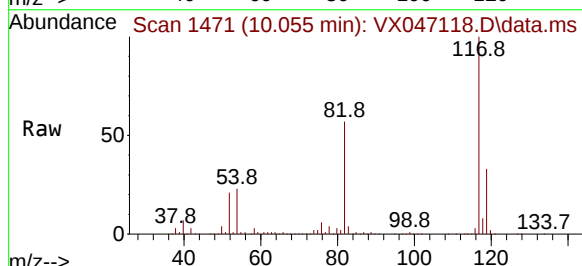
Tgt Ion: 117 Resp: 708181

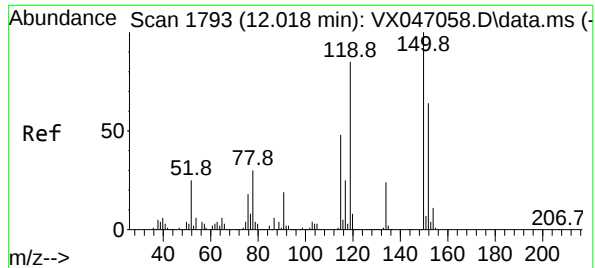
Ion Ratio Lower Upper

117 100

82 57.2 45.4 68.2

119 33.2 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047118.D

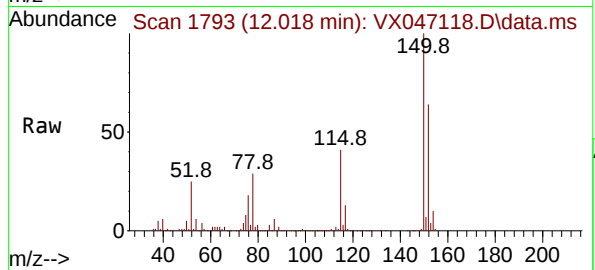
Acq: 24 Jul 2025 14:29

Instrument :

MSVOA_X

ClientSampleId :

CC0627-AOXL



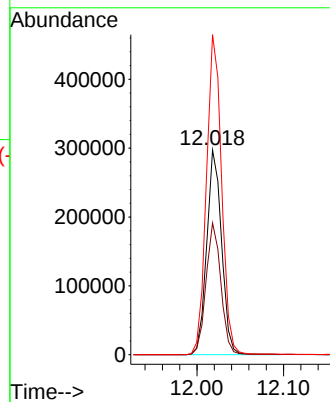
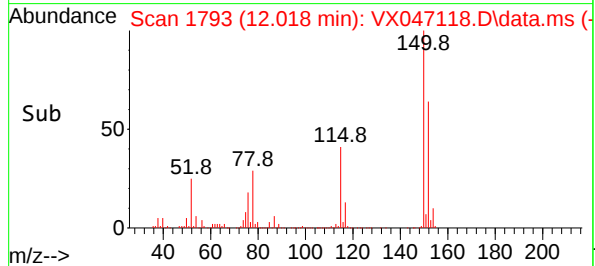
Tgt Ion:152 Resp: 355368

Ion Ratio Lower Upper

152 100

115 64.3 45.6 136.7

150 159.4 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047119.D
 Acq On : 24 Jul 2025 14:50
 Operator : JC/MD
 Sample : Q2481-16 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0625-NL

Quant Time: Jul 25 01:24:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

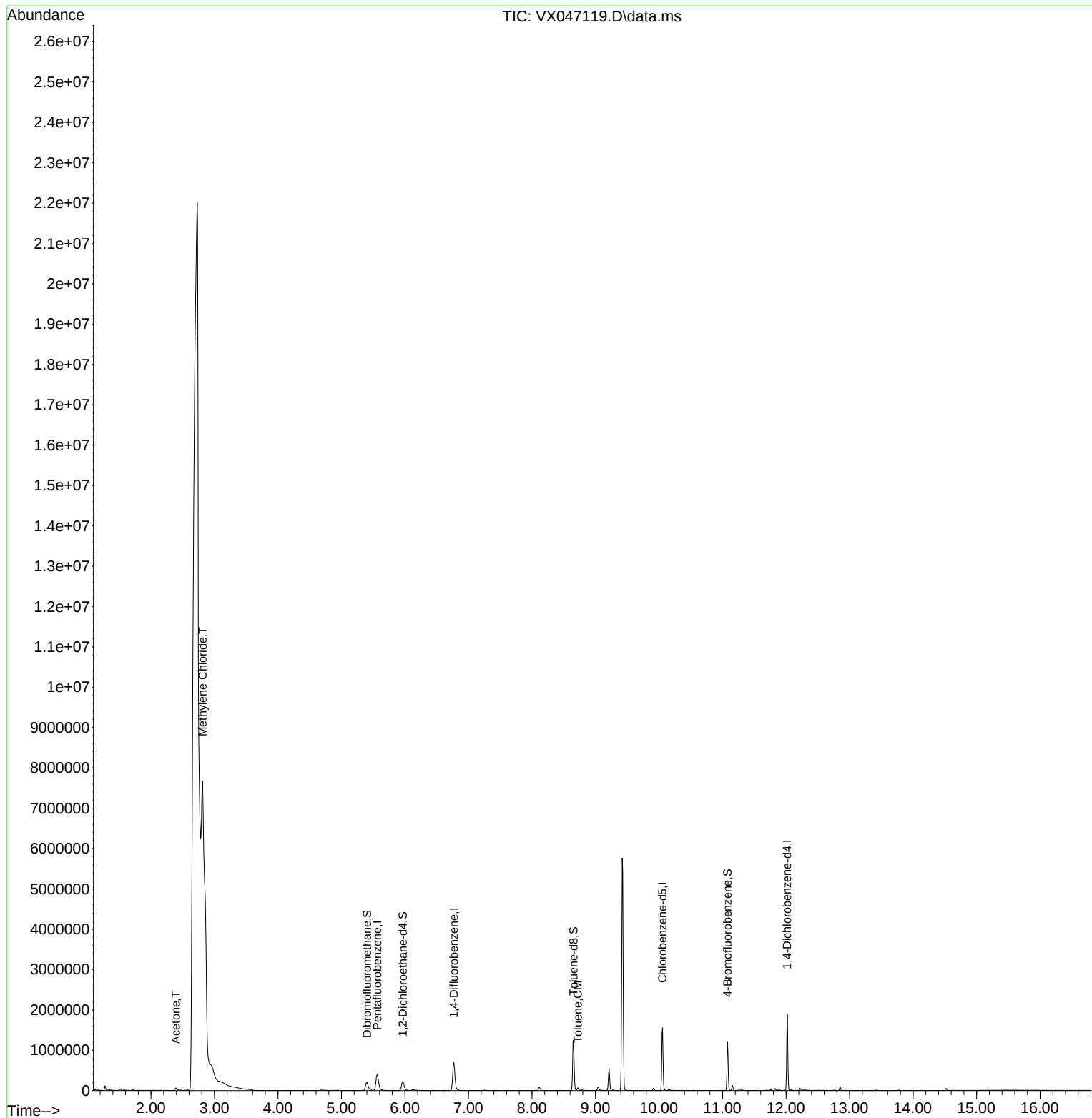
Internal Standards						
1) Pentafluorobenzene	5.562	168	396009	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	749209	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	689935	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	372334	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	246707	50.011	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 100.020%	
35) Dibromofluoromethane	5.403	113	196961	42.578	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 85.160%	
50) Toluene-d8	8.653	98	767237	51.215	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.420%	
62) 4-Bromofluorobenzene	11.079	95	319376	49.471	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 98.940%	
Target Compounds						
						Qvalue
16) Acetone	2.392	43	108888	55.100	ug/l	98
20) Methylene Chloride	2.812	84	1182210	217.451	ug/l	96
52) Toluene	8.720	92	26302	1.875	ug/l	98

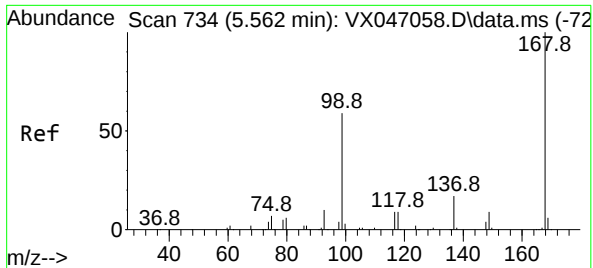
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047119.D
Acq On : 24 Jul 2025 14:50
Operator : JC/MD
Sample : Q2481-16 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0625-NL

Quant Time: Jul 25 01:24:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

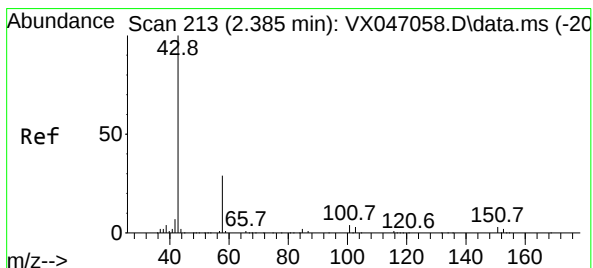
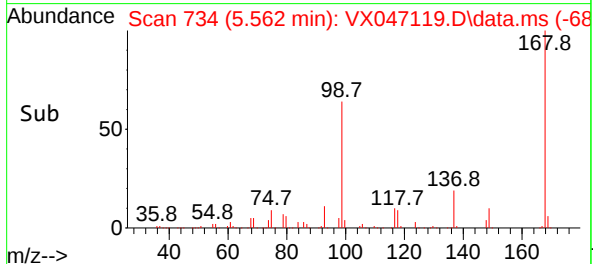
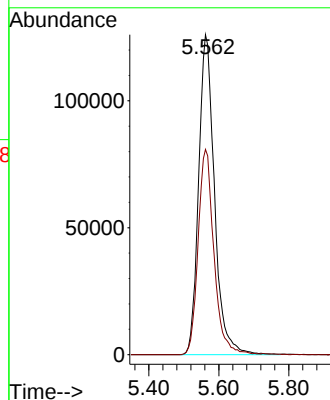
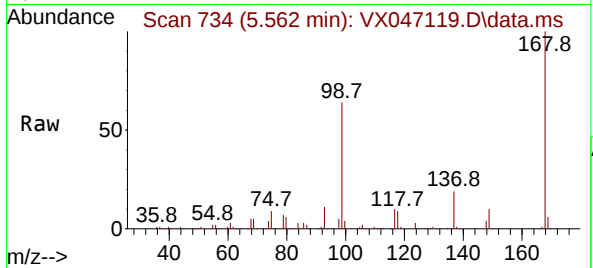




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047119.D
Acq: 24 Jul 2025 14:50

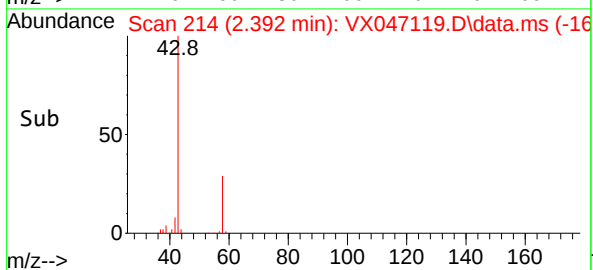
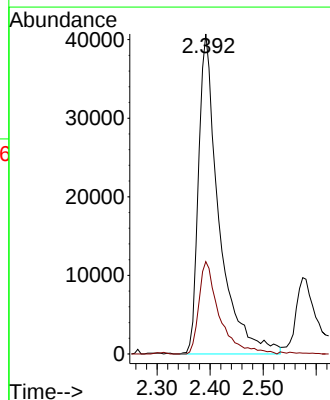
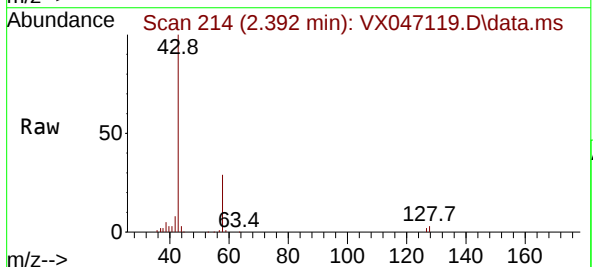
Instrument :
MSVOA_X
ClientSampleId :
CC0625-NL

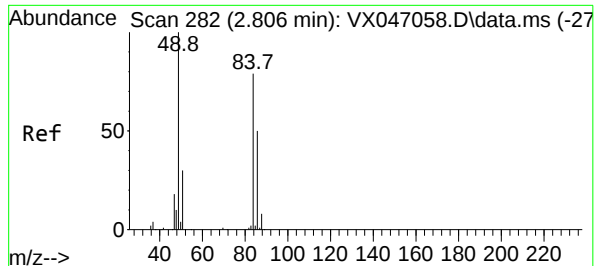
Tgt Ion:168 Resp: 396009
Ion Ratio Lower Upper
168 100
99 64.2 48.0 72.0



#16
Acetone
Concen: 55.100 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047119.D
Acq: 24 Jul 2025 14:50

Tgt Ion: 43 Resp: 108888
Ion Ratio Lower Upper
43 100
58 29.1 24.0 36.0





#20

Methylene Chloride

Concen: 217.451 ug/l

RT: 2.812 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX047119.D

Acq: 24 Jul 2025 14:50

Instrument :

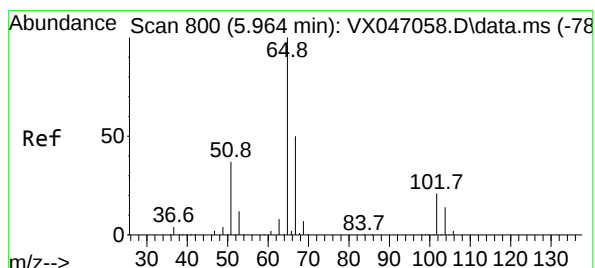
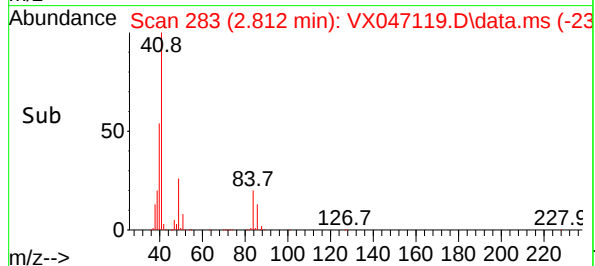
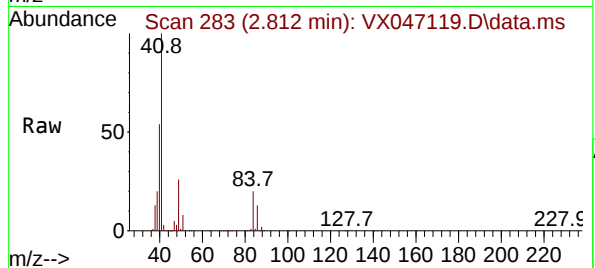
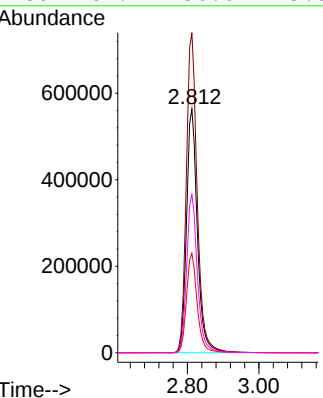
MSVOA_X

ClientSampleId :

CC0625-NL

Tgt Ion: 84 Resp: 1182210

Ion	Ratio	Lower	Upper
84	100		
49	131.4	101.6	152.4
51	40.8	30.3	45.5
86	64.9	50.6	75.8



#33

1,2-Dichloroethane-d4

Concen: 50.011 ug/l

RT: 5.964 min Scan# 800

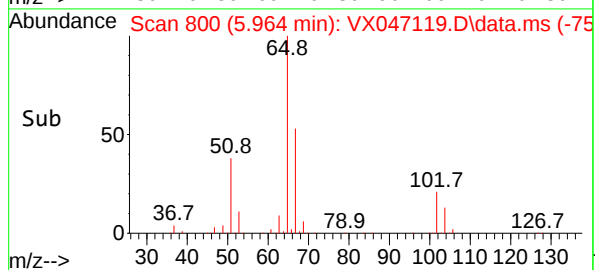
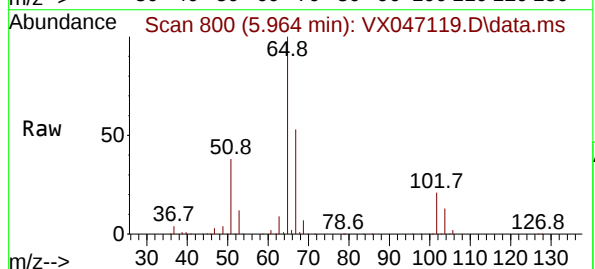
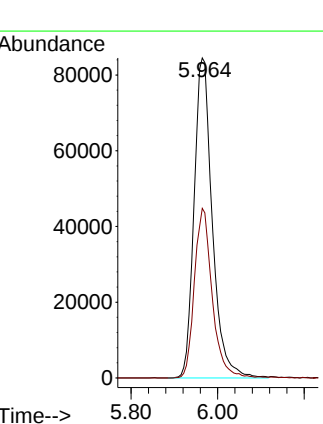
Delta R.T. 0.000 min

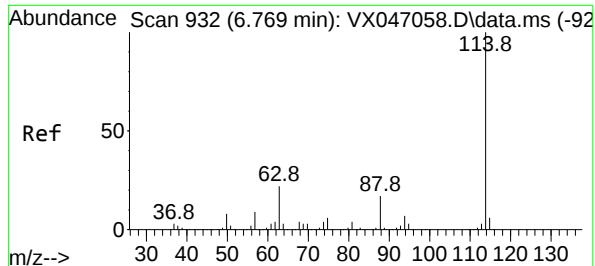
Lab File: VX047119.D

Acq: 24 Jul 2025 14:50

Tgt Ion: 65 Resp: 246707

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047119.D

Acq: 24 Jul 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

CC0625-NL

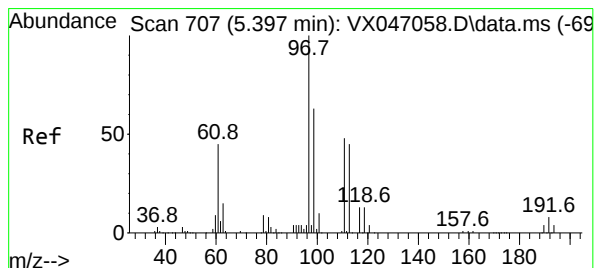
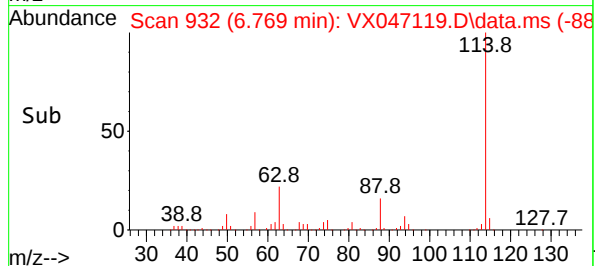
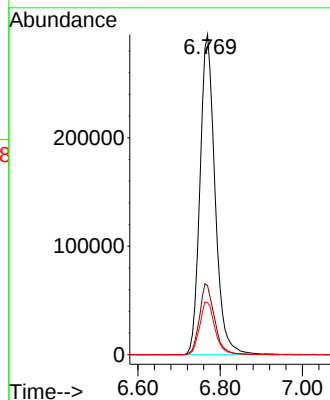
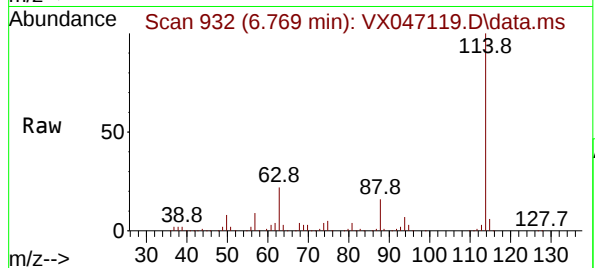
Tgt Ion:114 Resp: 749209

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.2

88 16.3 0.0 33.8



#35

Dibromofluoromethane

Concen: 42.578 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX047119.D

Acq: 24 Jul 2025 14:50

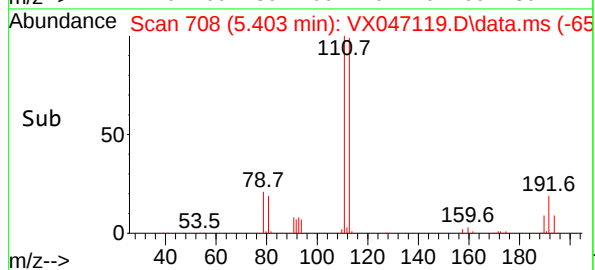
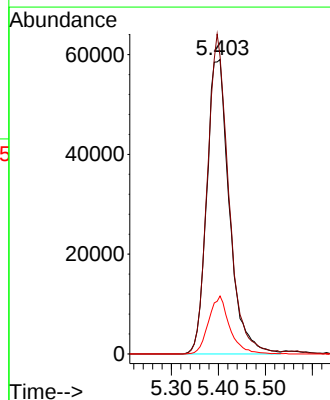
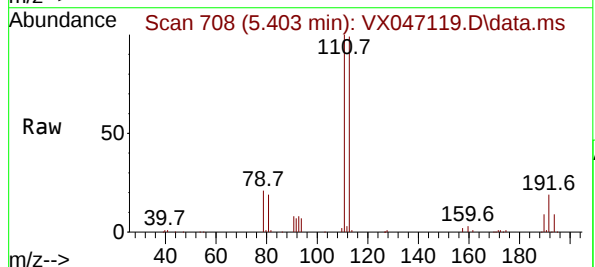
Tgt Ion:113 Resp: 196961

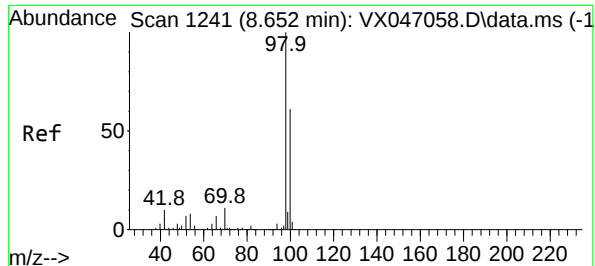
Ion Ratio Lower Upper

113 100

111 102.6 82.6 124.0

192 18.3 14.9 22.3





#50

Toluene-d8

Concen: 51.215 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047119.D

Acq: 24 Jul 2025 14:50

Instrument :

MSVOA_X

ClientSampleId :

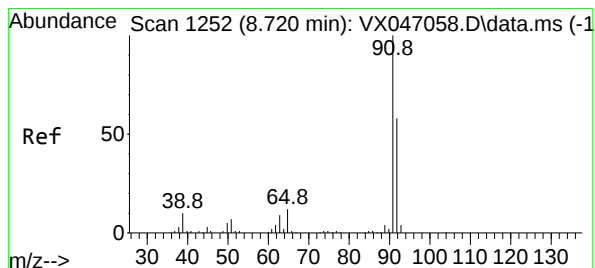
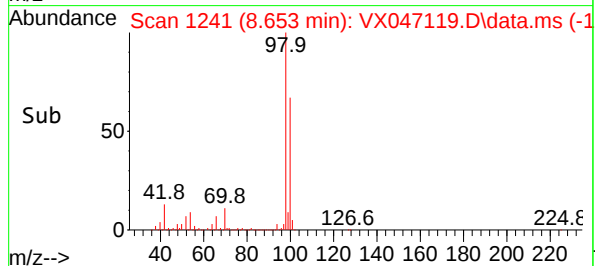
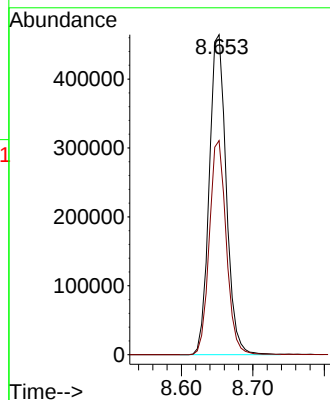
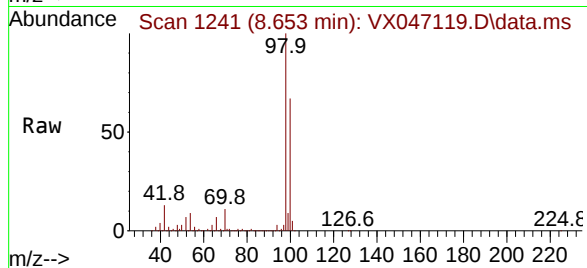
CC0625-NL

Tgt Ion: 98 Resp: 767237

Ion Ratio Lower Upper

98 100

100 66.6 53.3 79.9



#52

Toluene

Concen: 1.875 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX047119.D

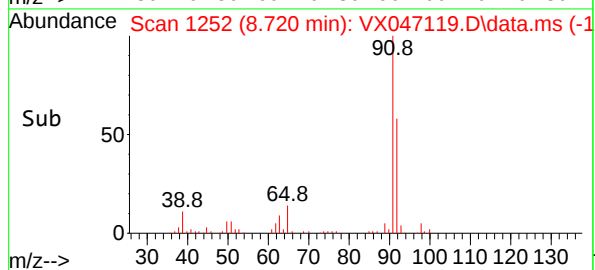
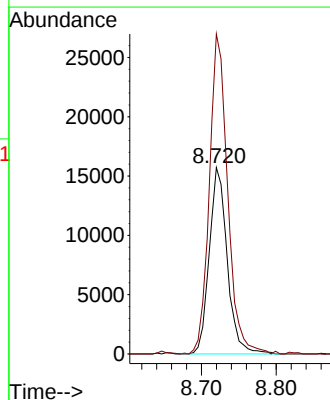
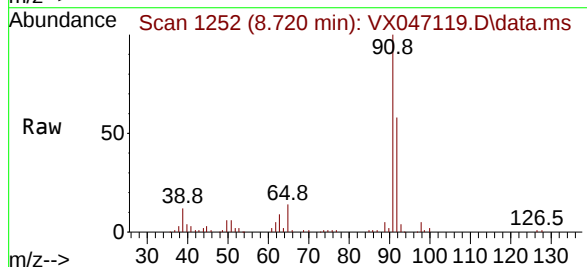
Acq: 24 Jul 2025 14:50

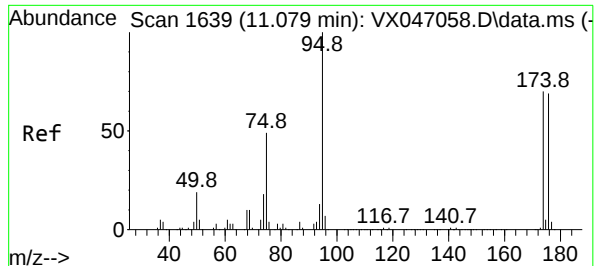
Tgt Ion: 92 Resp: 26302

Ion Ratio Lower Upper

92 100

91 174.7 137.9 206.9

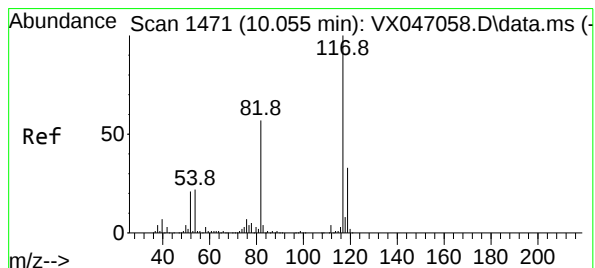
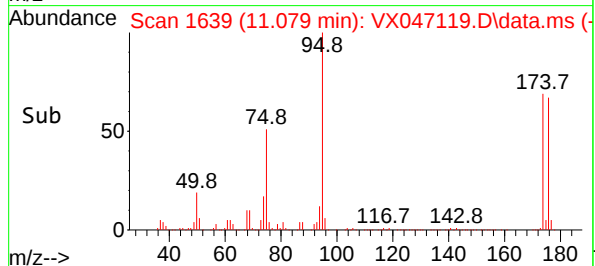
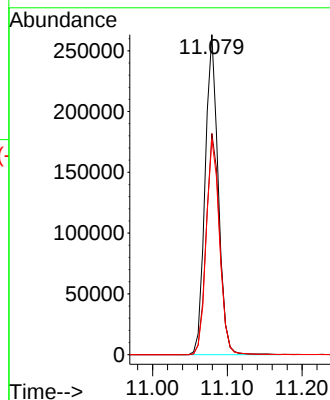
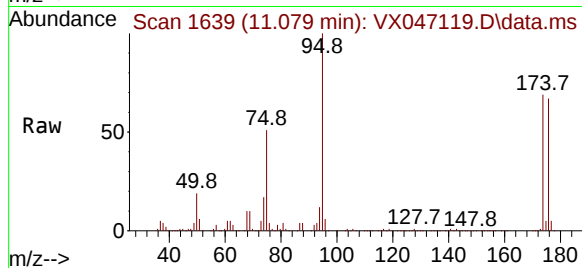




#62
4-Bromofluorobenzene
Concen: 49.471 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047119.D
Acq: 24 Jul 2025 14:50

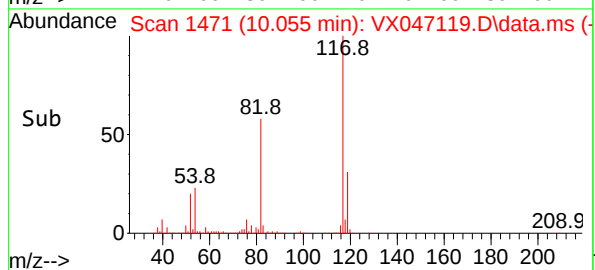
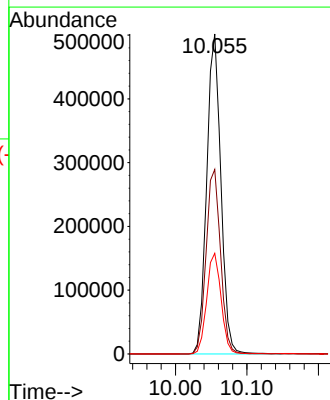
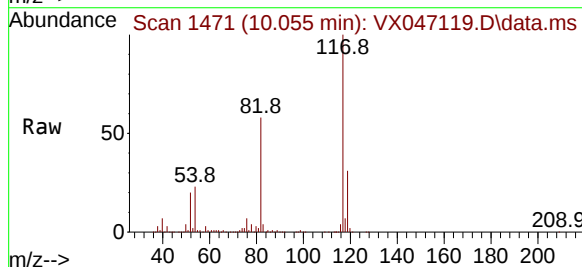
Instrument :
MSVOA_X
ClientSampleId :
CC0625-NL

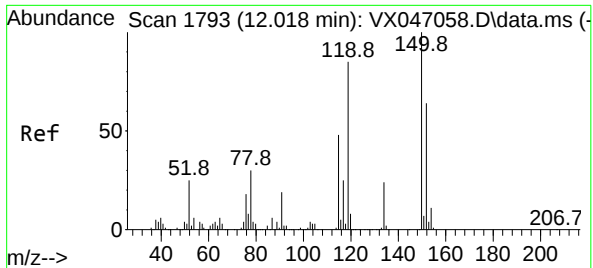
Tgt Ion: 95 Resp: 319376
Ion Ratio Lower Upper
95 100
174 70.9 0.0 144.6
176 68.7 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047119.D
Acq: 24 Jul 2025 14:50

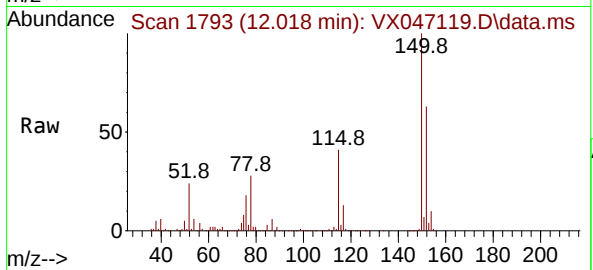
Tgt Ion: 117 Resp: 689935
Ion Ratio Lower Upper
117 100
82 57.6 45.4 68.2
119 31.5 26.1 39.1



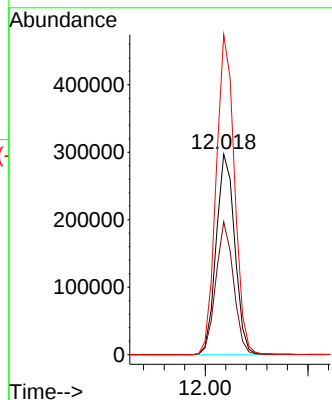
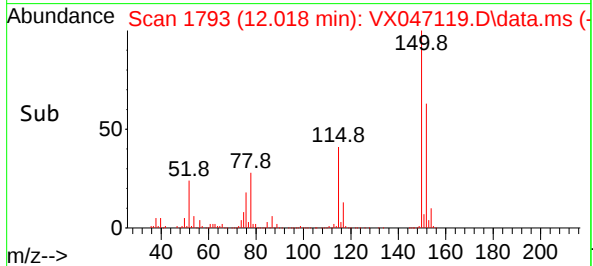


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047119.D
Acq: 24 Jul 2025 14:50

Instrument :
MSVOA_X
ClientSampleId :
CC0625-NL



Tgt Ion:152 Resp: 372334
Ion Ratio Lower Upper
152 100
115 63.5 45.6 136.7
150 157.7 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047123.D
 Acq On : 24 Jul 2025 16:15
 Operator : JC/MD
 Sample : Q2481-17 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0267-OXPL

Quant Time: Jul 25 01:25:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

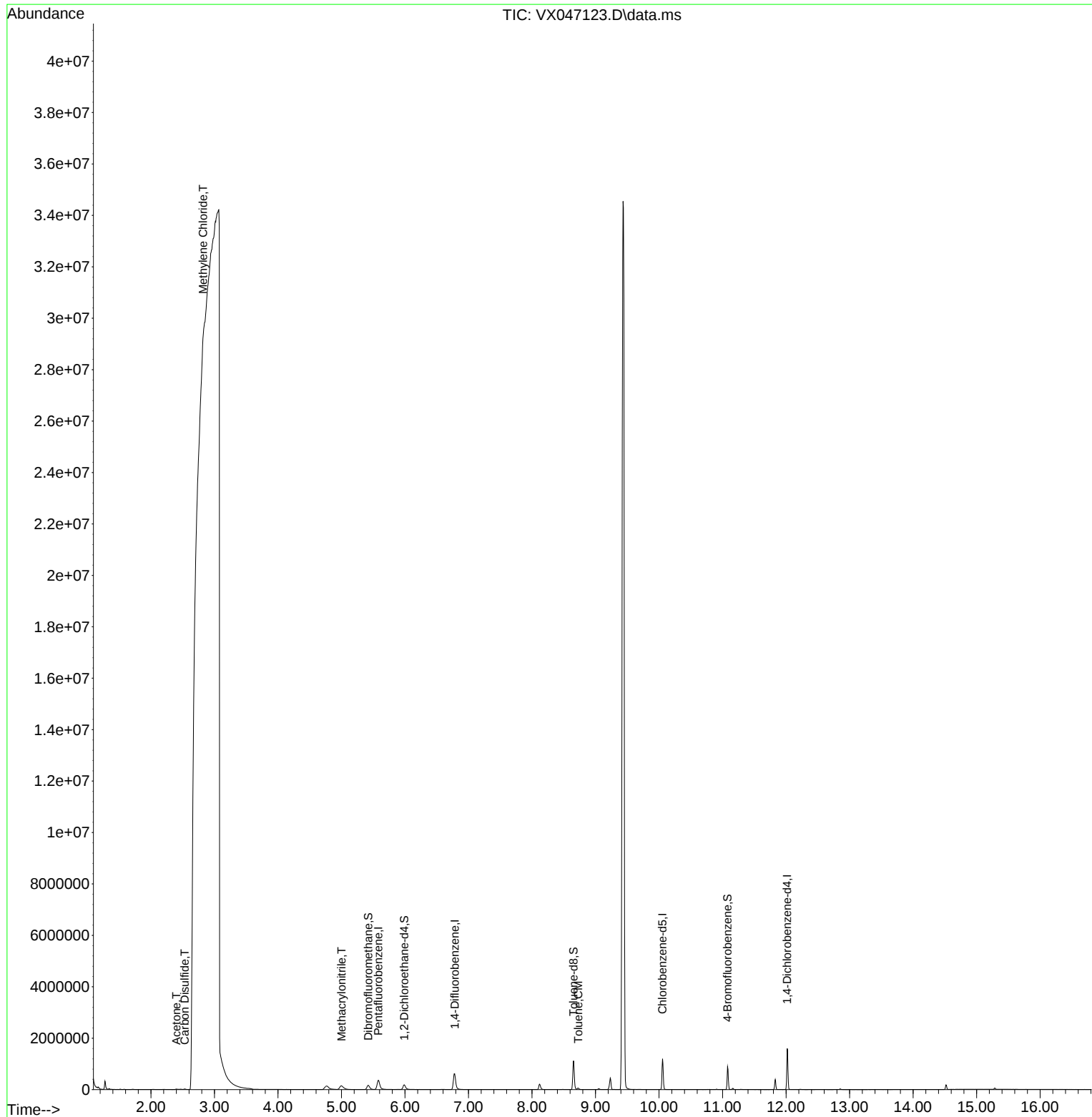
Internal Standards						
1) Pentafluorobenzene	5.580	168	354820	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	6.781	114	677494	50.000	ug/l	0.01
63) Chlorobenzene-d5	10.055	117	521532	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	319546	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.988	65	197936	44.783	ug/l	0.02
Spiked Amount 50.000	Range 78 - 117		Recovery =	89.560%		
35) Dibromofluoromethane	5.421	113	157137	37.565	ug/l	0.02
Spiked Amount 50.000	Range 75 - 124		Recovery =	75.140%		
50) Toluene-d8	8.652	98	660641	48.767	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.540%		
62) 4-Bromofluorobenzene	11.079	95	237060	40.607	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	81.220%#		
Target Compounds						
					Qvalue	
16) Acetone	2.397	43	50396	28.462	ug/l	93
17) Carbon Disulfide	2.532	76	34985	2.712	ug/l	100
20) Methylene Chloride	2.818	84	442818	90.905	ug/l	88
41) Methacrylonitrile	5.001	41	157014	45.705	ug/l	97
52) Toluene	8.726	92	23199	1.828	ug/l	96

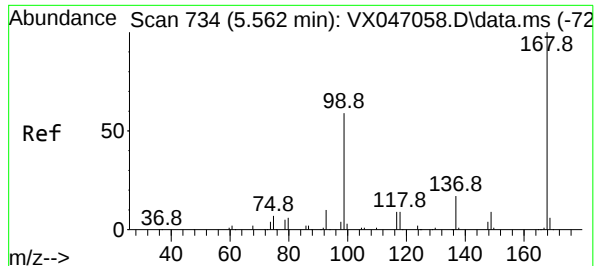
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047123.D
Acq On : 24 Jul 2025 16:15
Operator : JC/MD
Sample : Q2481-17 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0267-OXPL

Quant Time: Jul 25 01:25:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

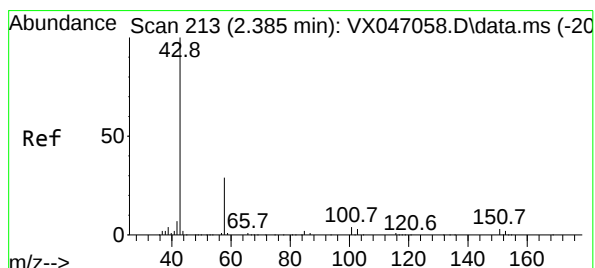
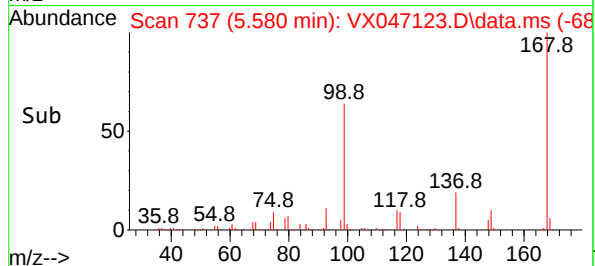
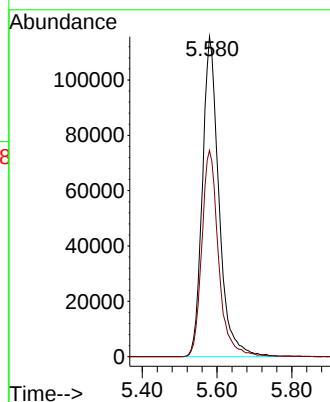
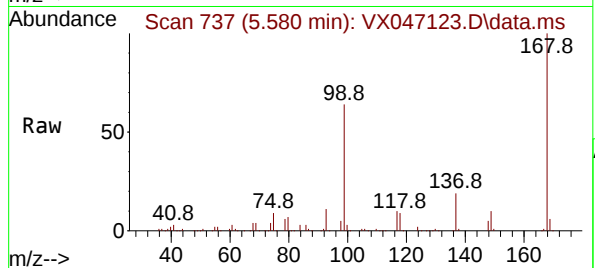




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.580 min Scan# 71
Delta R.T. 0.018 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

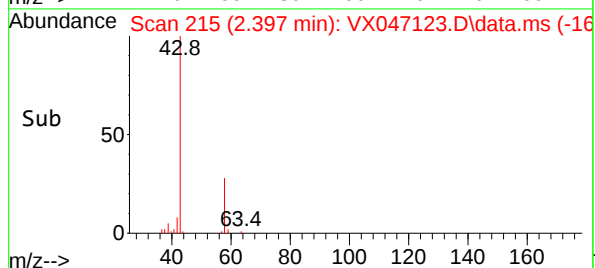
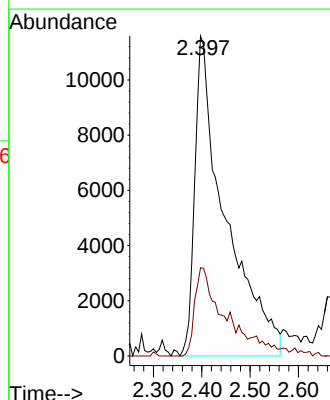
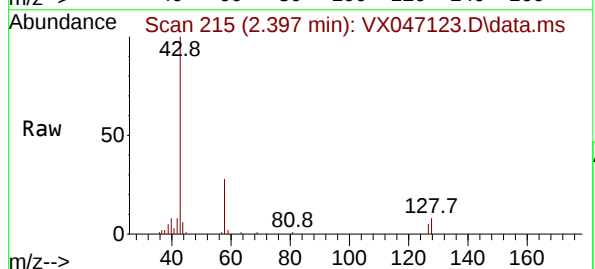
Instrument :
MSVOA_X
ClientSampleId :
CC0267-OXPL

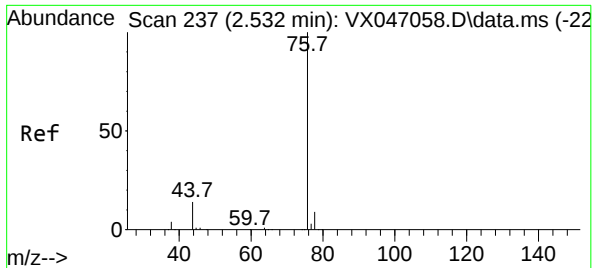
Tgt Ion:168 Resp: 354820
Ion Ratio Lower Upper
168 100
99 64.4 48.0 72.0



#16
Acetone
Concen: 28.462 ug/l
RT: 2.397 min Scan# 215
Delta R.T. 0.012 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

Tgt Ion: 43 Resp: 50396
Ion Ratio Lower Upper
43 100
58 26.0 24.0 36.0

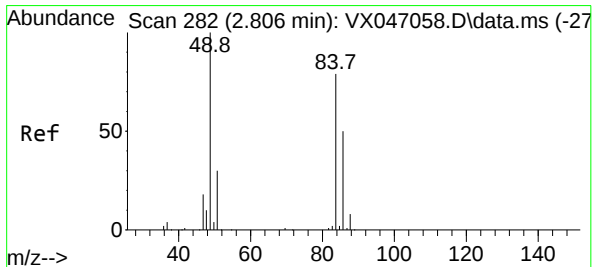
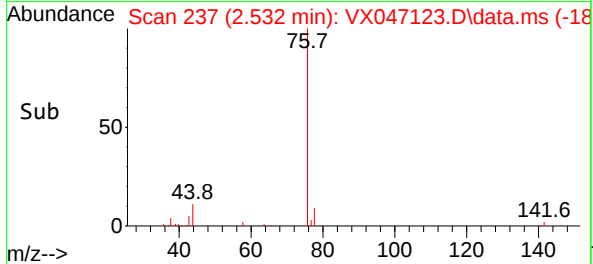
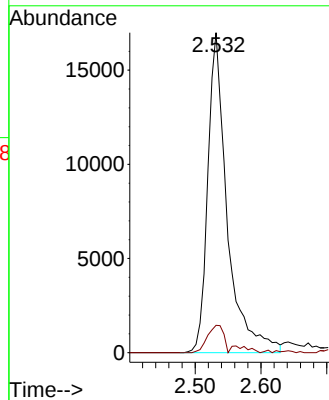
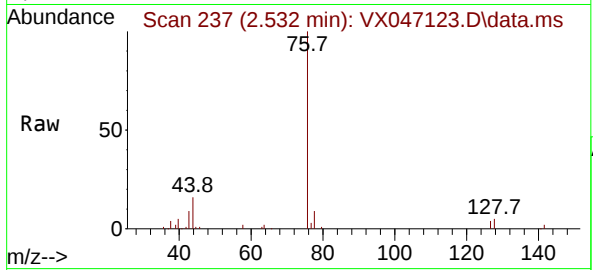




#17
Carbon Disulfide
Concen: 2.712 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

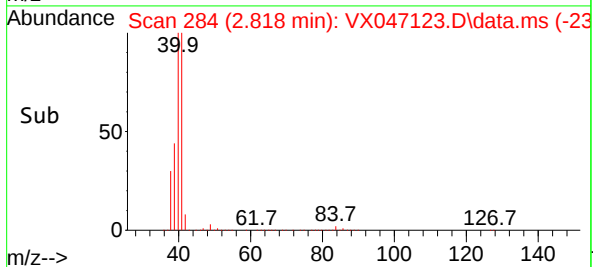
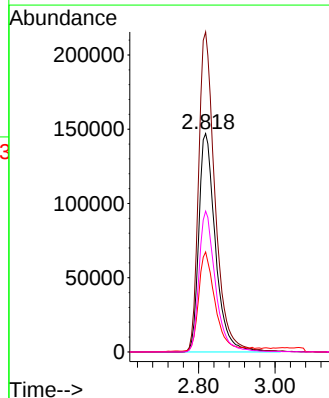
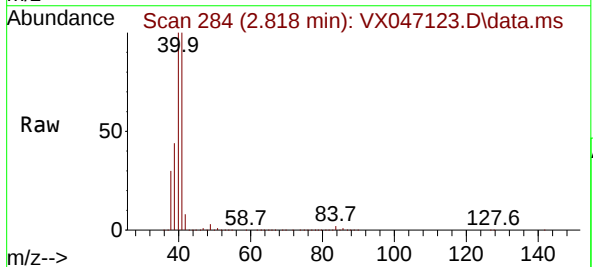
Instrument :
MSVOA_X
ClientSampleId :
CC0267-OXPL

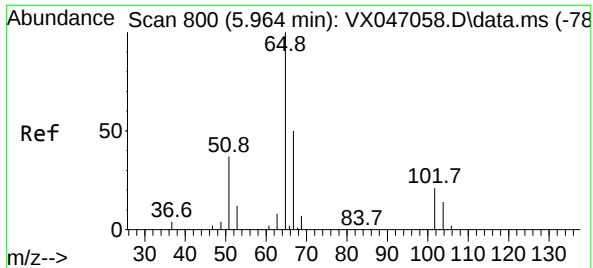
Tgt Ion: 76 Resp: 34985
Ion Ratio Lower Upper
76 100
78 8.5 7.0 10.4



#20
Methylene Chloride
Concen: 90.905 ug/l
RT: 2.818 min Scan# 284
Delta R.T. 0.012 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

Tgt Ion: 84 Resp: 442818
Ion Ratio Lower Upper
84 100
49 146.5 101.6 152.4
51 45.4 30.3 45.5
86 64.5 50.6 75.8





#33

1,2-Dichloroethane-d4

Concen: 44.783 ug/l

RT: 5.988 min Scan# 80

Delta R.T. 0.024 min

Lab File: VX047123.D

Acq: 24 Jul 2025 16:15

Instrument :

MSVOA_X

ClientSampleId :

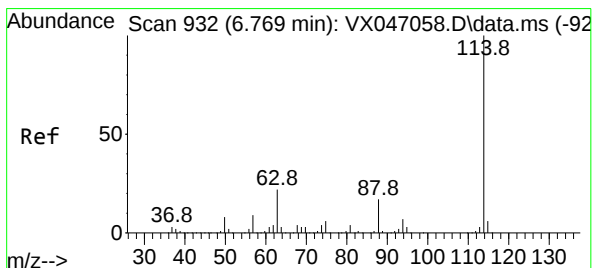
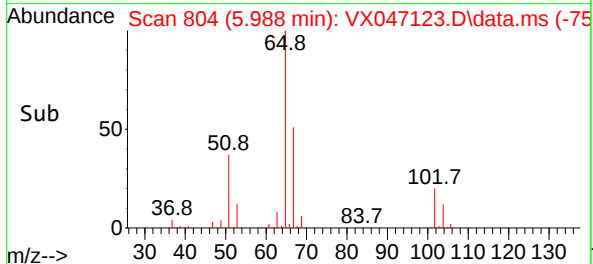
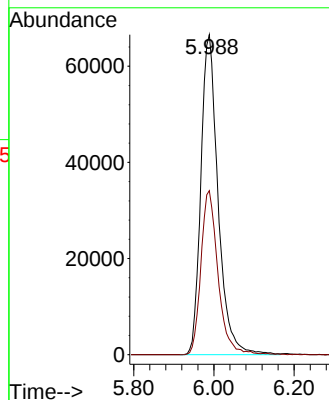
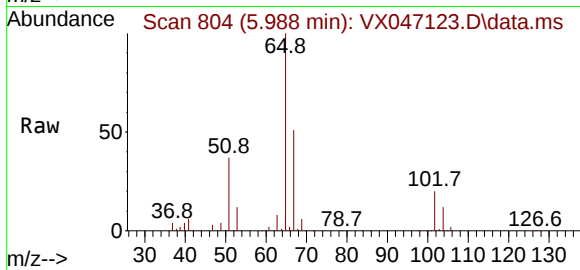
CC0267-OXPL

Tgt Ion: 65 Resp: 197936

Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.781 min Scan# 934

Delta R.T. 0.012 min

Lab File: VX047123.D

Acq: 24 Jul 2025 16:15

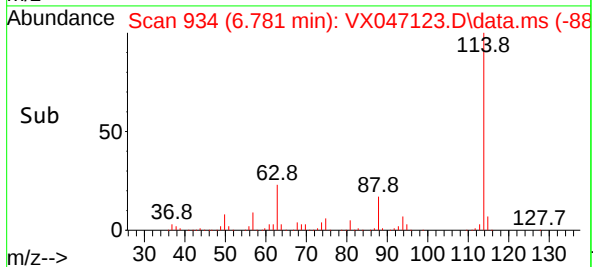
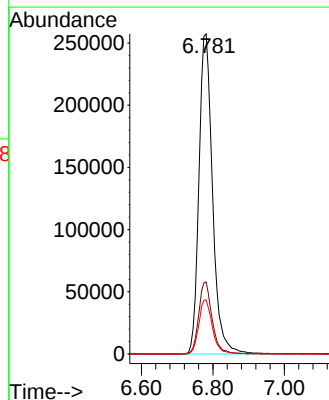
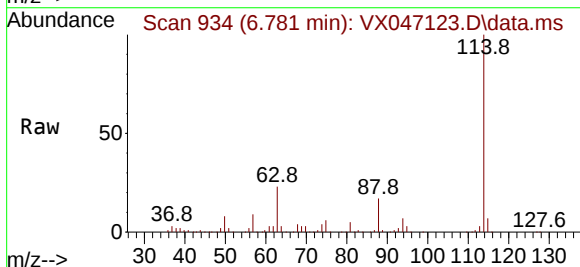
Tgt Ion: 114 Resp: 677494

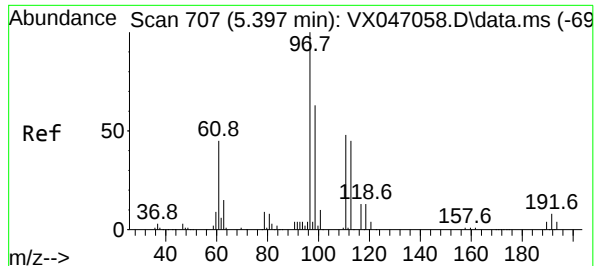
Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.2

88 16.9 0.0 33.8





#35

Dibromofluoromethane

Concen: 37.565 ug/l

RT: 5.421 min Scan# 711

Delta R.T. 0.024 min

Lab File: VX047123.D

Acq: 24 Jul 2025 16:15

Instrument :

MSVOA_X

ClientSampleId :

CC0267-OXPL

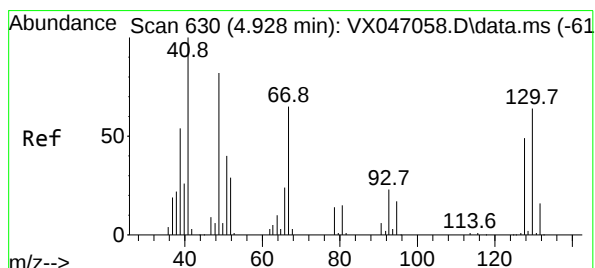
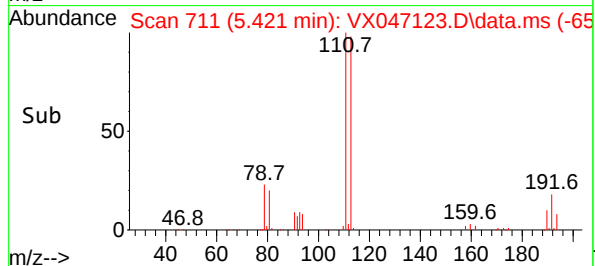
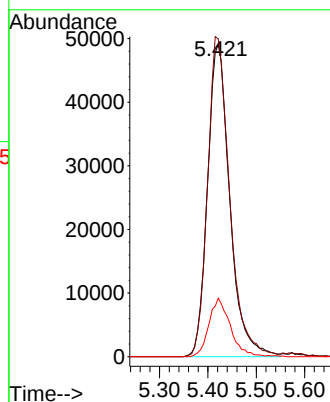
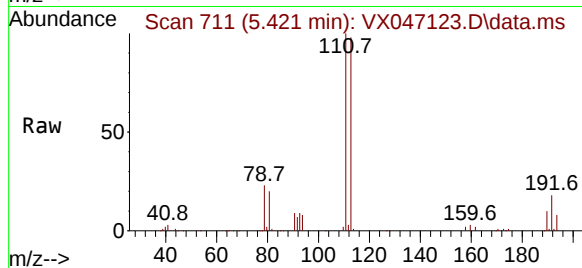
Tgt Ion:113 Resp: 157137

Ion Ratio Lower Upper

113 100

111 101.6 82.6 124.0

192 17.9 14.9 22.3



#41

Methacrylonitrile

Concen: 45.705 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.073 min

Lab File: VX047123.D

Acq: 24 Jul 2025 16:15

Tgt Ion: 41 Resp: 157014

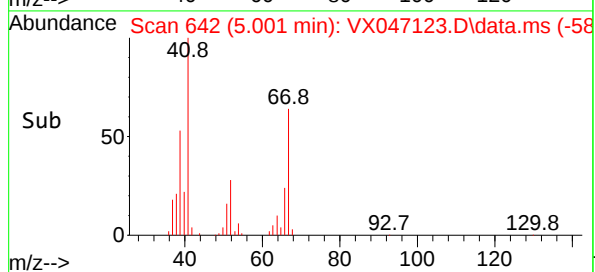
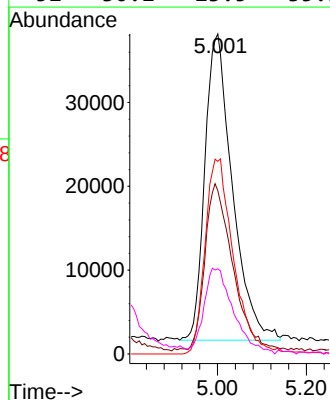
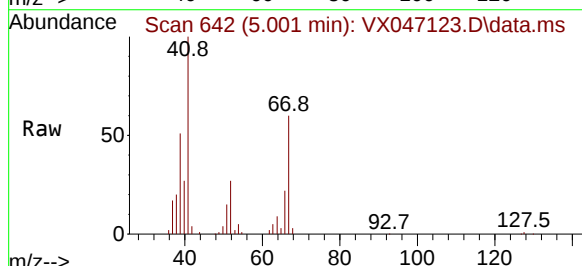
Ion Ratio Lower Upper

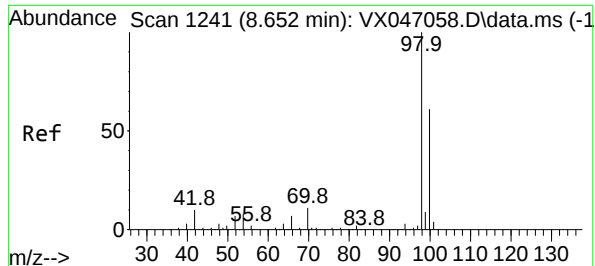
41 100

39 55.7 44.2 66.2

67 65.7 56.4 84.6

52 30.2 23.5 35.3





#50

Toluene-d8

Concen: 48.767 ug/l

RT: 8.652 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047123.D

Acq: 24 Jul 2025 16:15

Instrument :

MSVOA_X

ClientSampleId :

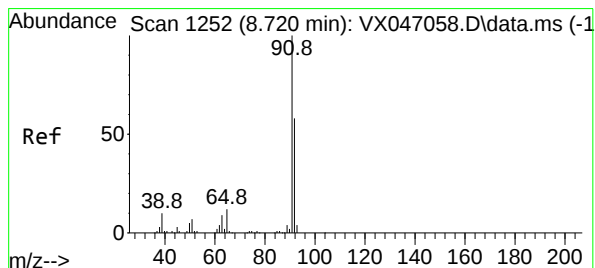
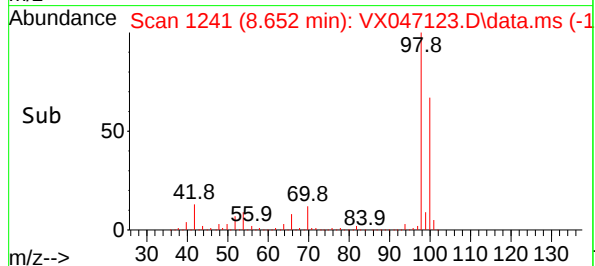
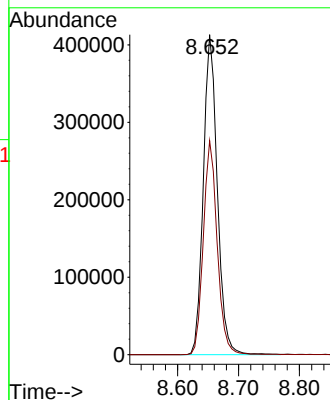
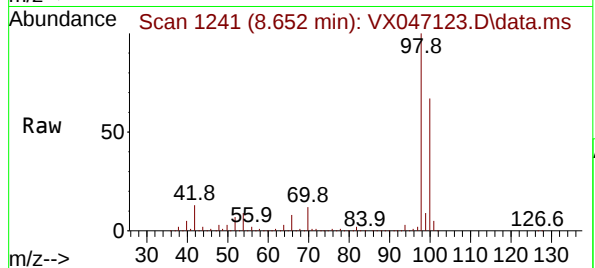
CC0267-OXPL

Tgt Ion: 98 Resp: 660641

Ion Ratio Lower Upper

98 100

100 66.5 53.3 79.9



#52

Toluene

Concen: 1.828 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX047123.D

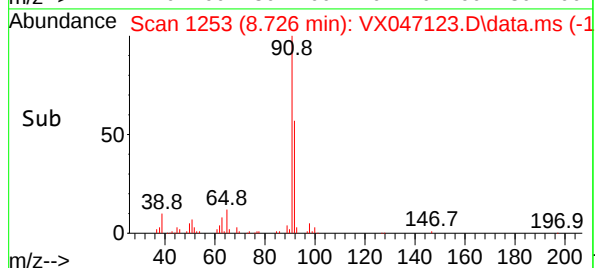
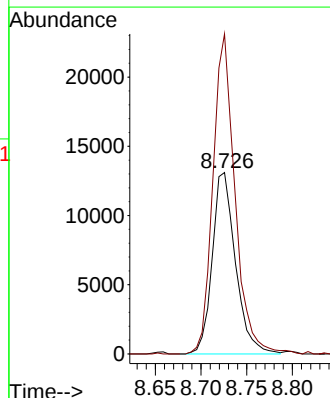
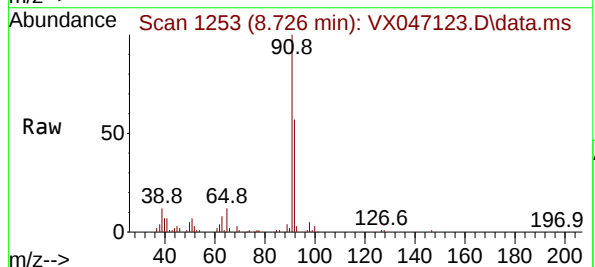
Acq: 24 Jul 2025 16:15

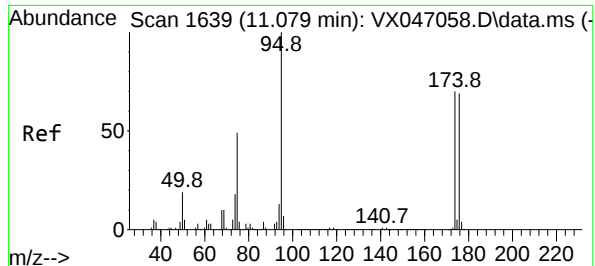
Tgt Ion: 92 Resp: 23199

Ion Ratio Lower Upper

92 100

91 167.2 137.9 206.9

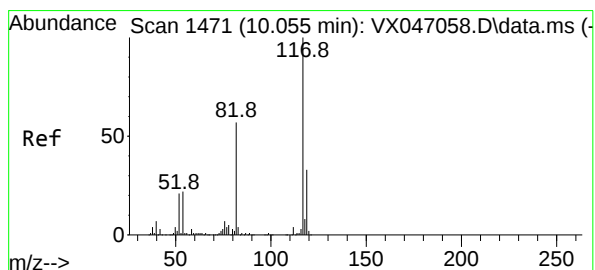
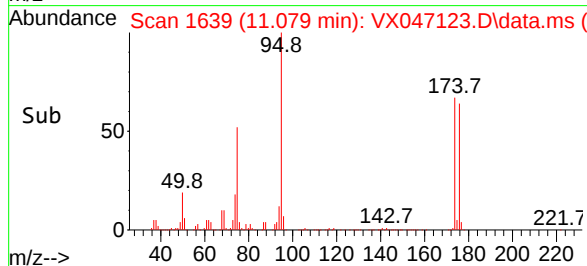
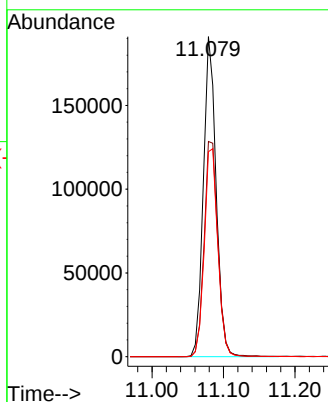
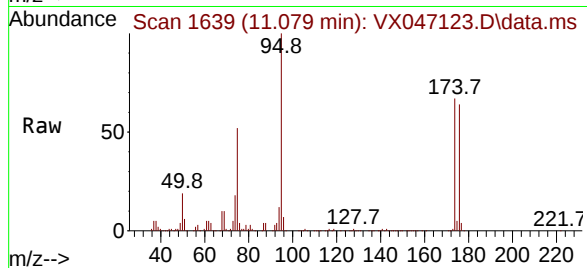




#62
4-Bromofluorobenzene
Concen: 40.607 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

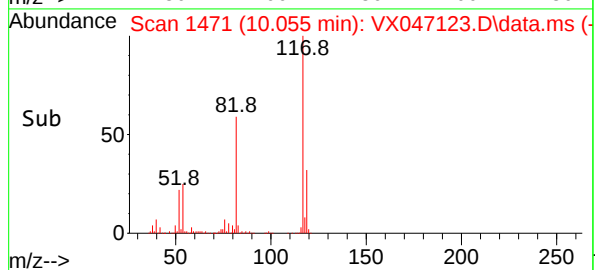
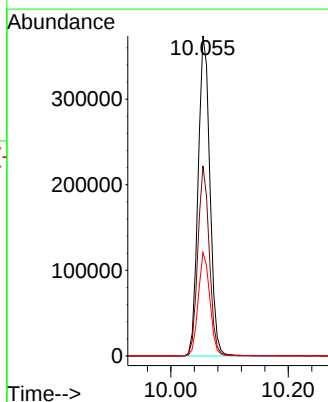
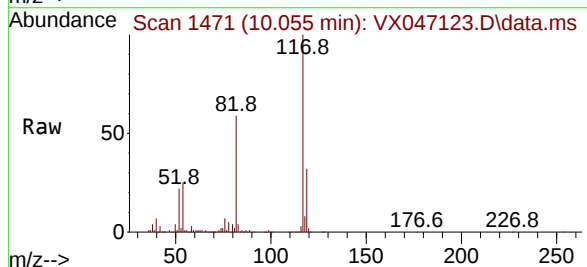
Instrument :
MSVOA_X
ClientSampleId :
CC0267-OXPL

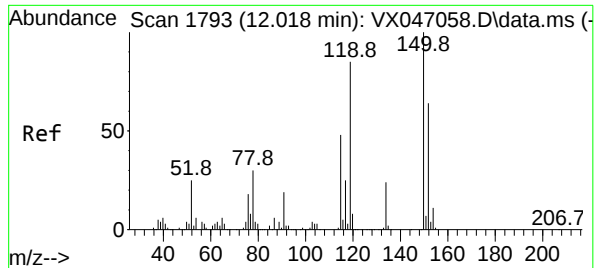
Tgt Ion: 95 Resp: 237060
Ion Ratio Lower Upper
95 100
174 72.4 0.0 144.6
176 69.2 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047123.D
Acq: 24 Jul 2025 16:15

Tgt Ion: 117 Resp: 521532
Ion Ratio Lower Upper
117 100
82 59.4 45.4 68.2
119 32.3 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047123.D

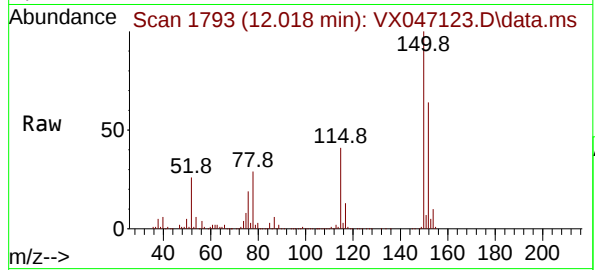
Acq: 24 Jul 2025 16:15

Instrument :

MSVOA_X

ClientSampleId :

CC0267-OXPL



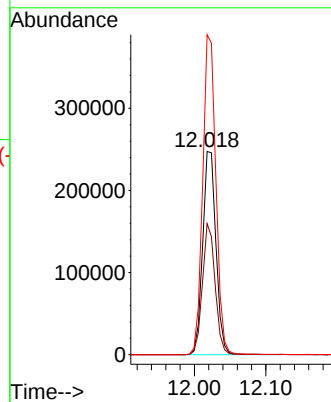
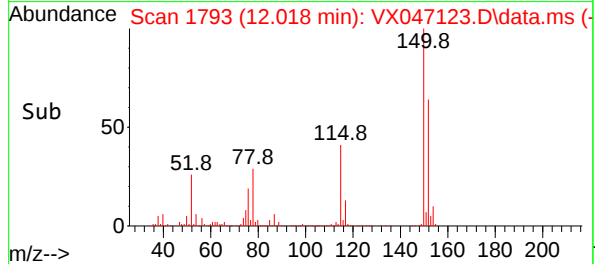
Tgt Ion:152 Resp: 319546

Ion Ratio Lower Upper

152 100

115 61.3 45.6 136.7

150 156.0 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047102.D
 Acq On : 23 Jul 2025 19:00
 Operator : JC/MD
 Sample : Q2481-18 1000X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-OXL

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:57:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	416777	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	772965	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	519074	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	323235	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	278050	53.556	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.120%			
35) Dibromofluoromethane	5.397	113	226535	47.466	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.940%			
50) Toluene-d8	8.659	98	856992	55.448	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 110.900%			
62) 4-Bromofluorobenzene	11.079	95	280864	42.168	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 84.340%			
Target Compounds						
10) Methyl Iodide	2.471	142	24099	4.471	ug/l	98
37) Ethyl Acetate	4.733	43	170522	22.748	ug/l	99
41) Methacrylonitrile	4.952	41	16069	4.100	ug/l	96
51) 4-Methyl-2-Pentanone	8.610	43	143285m	20.628	ug/l	
52) Toluene	8.726	92	494369	34.150	ug/l	98

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

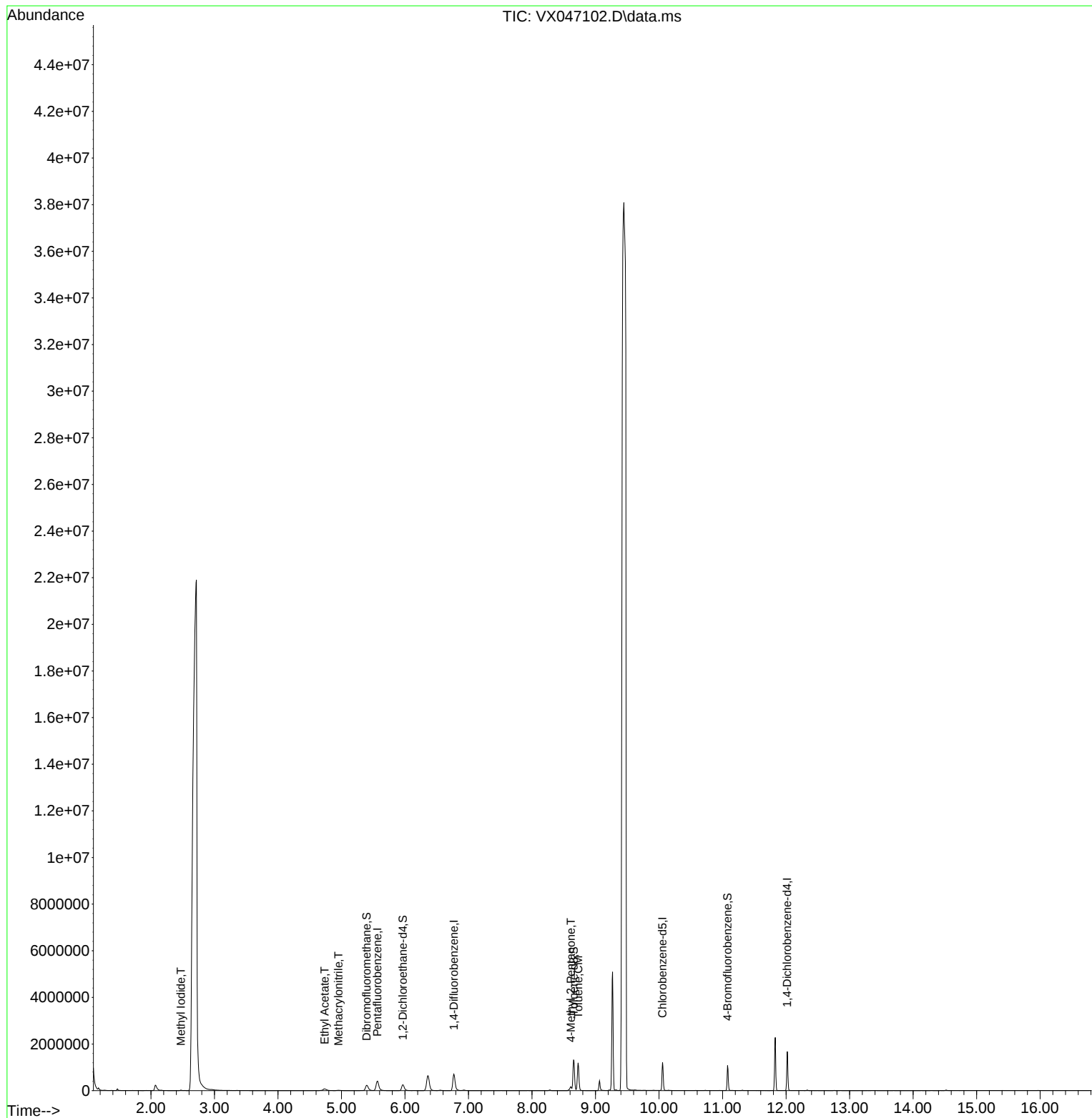
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
Data File : VX047102.D
Acq On : 23 Jul 2025 19:00
Operator : JC/MD
Sample : Q2481-18 1000X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

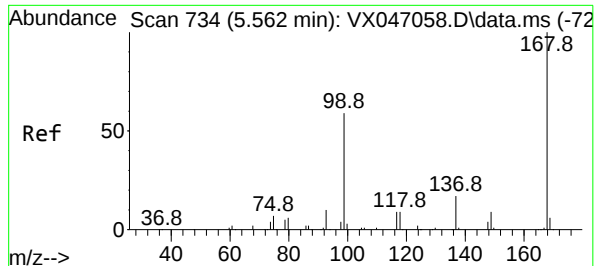
Instrument :
MSVOA_X
ClientSampleId :
CC0627-OXL

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:57:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration





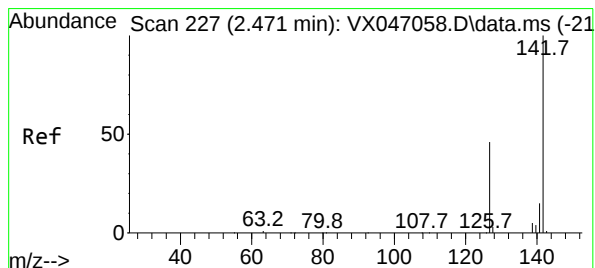
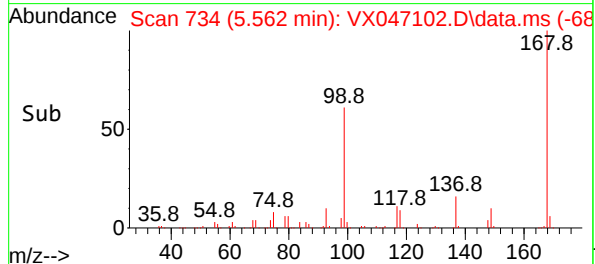
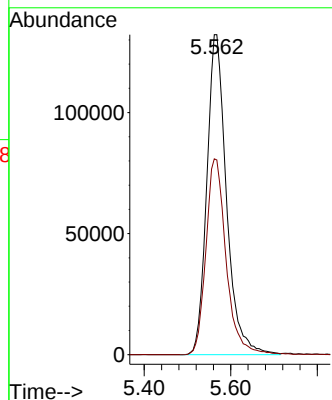
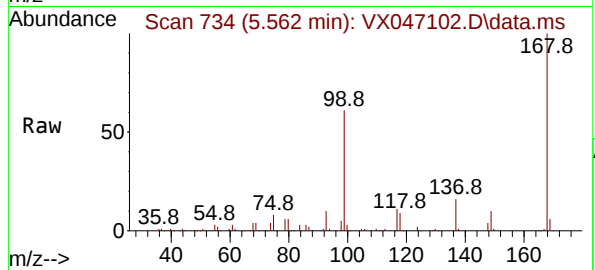
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.000 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
CC0627-OXL

Tgt Ion:168 Resp: 41677
Ion Ratio Lower Upper
168 100
99 61.2 48.0 72.0

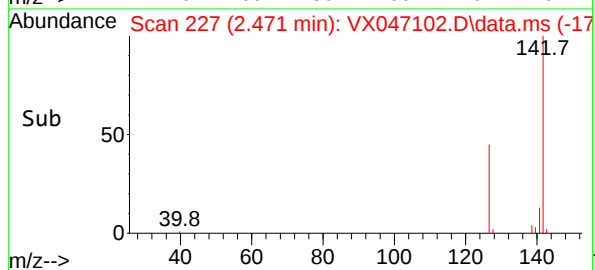
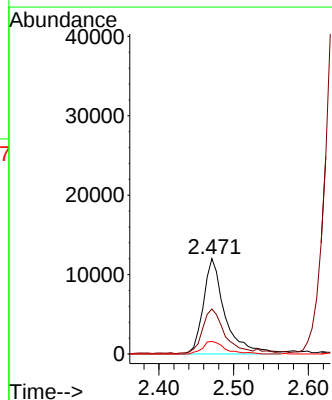
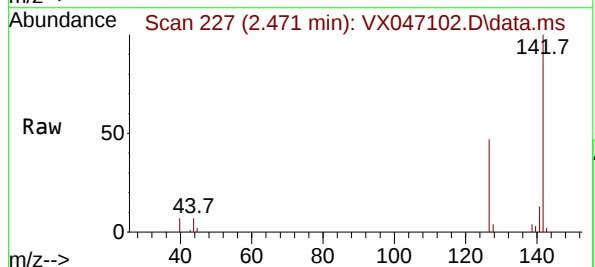
Manual Integrations
APPROVED

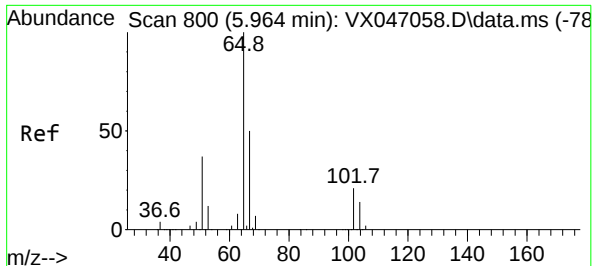
Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#10
Methyl Iodide
Concen: 4.471 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

Tgt Ion:142 Resp: 24099
Ion Ratio Lower Upper
142 100
127 47.4 36.6 54.8
141 13.6 10.9 16.3





#33

1,2-Dichloroethane-d4

Concen: 53.556 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047102.D

Acq: 23 Jul 2025 19:00

Instrument :

MSVOA_X

ClientSampleId :

CC0627-OXL

Tgt Ion: 65 Resp: 278050

Ion Ratio Lower Upper

65 100

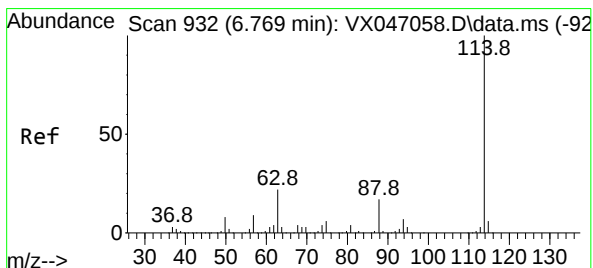
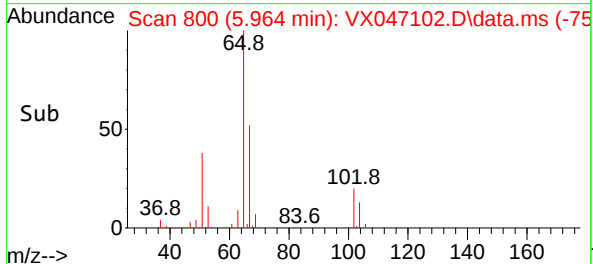
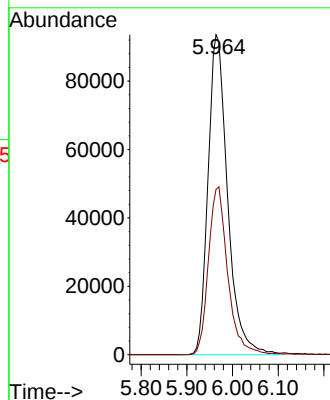
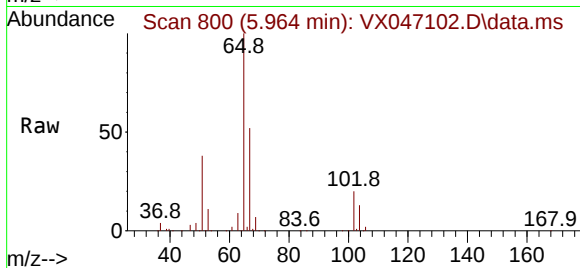
67 51.8 0.0 104.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047102.D

Acq: 23 Jul 2025 19:00

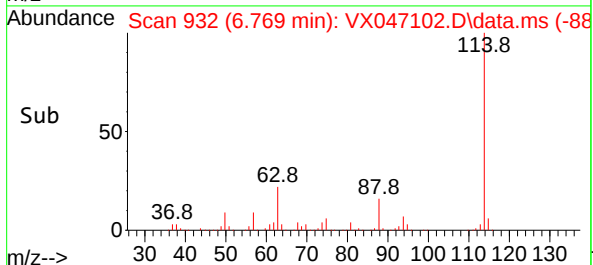
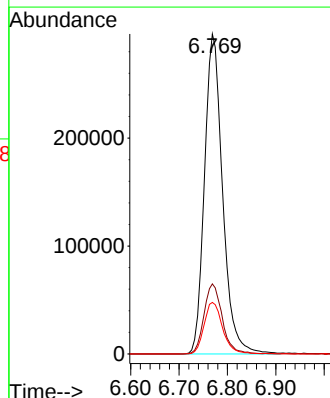
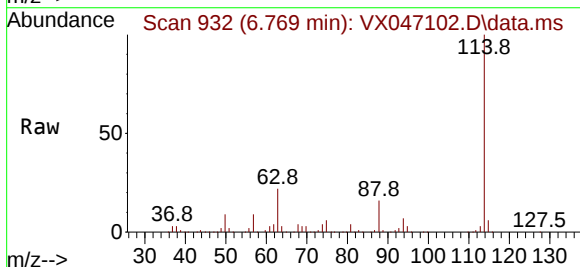
Tgt Ion:114 Resp: 772965

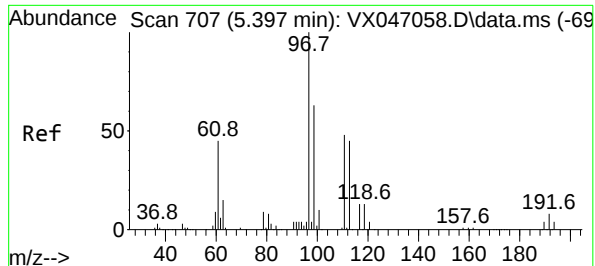
Ion Ratio Lower Upper

114 100

63 21.9 0.0 43.2

88 16.1 0.0 33.8





#35

Dibromofluoromethane

Concen: 47.466 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047102.D

Acq: 23 Jul 2025 19:00

Instrument :

MSVOA_X

ClientSampleId :

CC0627-OXL

Tgt Ion:113 Resp: 22653

Ion Ratio Lower Upper

113 100

111 102.6 82.6 124.0

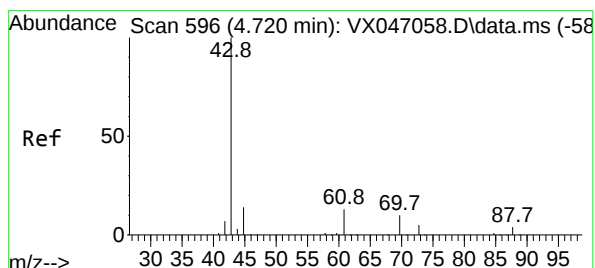
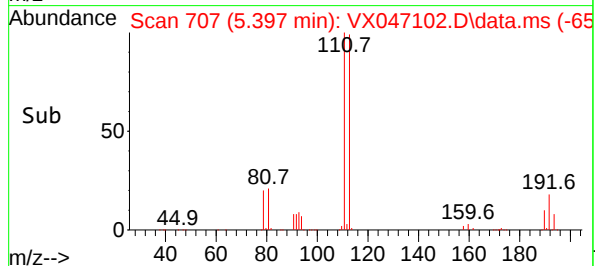
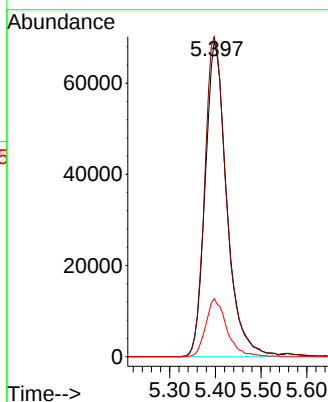
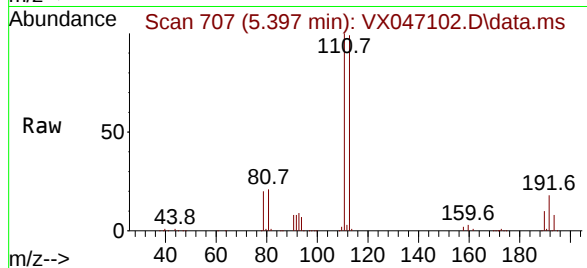
192 17.9 14.9 22.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



#37

Ethyl Acetate

Concen: 22.748 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.012 min

Lab File: VX047102.D

Acq: 23 Jul 2025 19:00

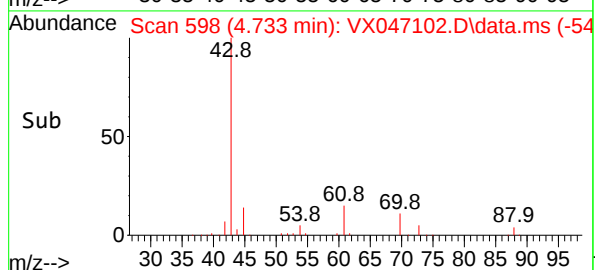
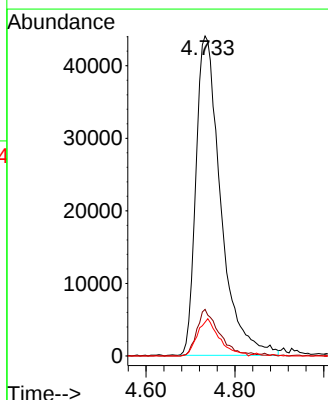
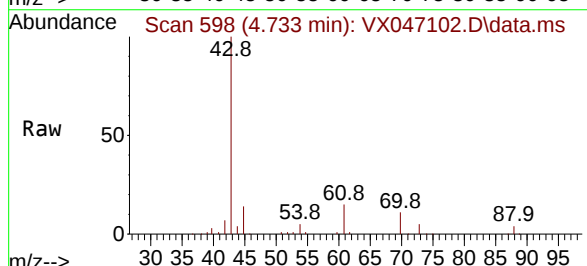
Tgt Ion: 43 Resp: 170522

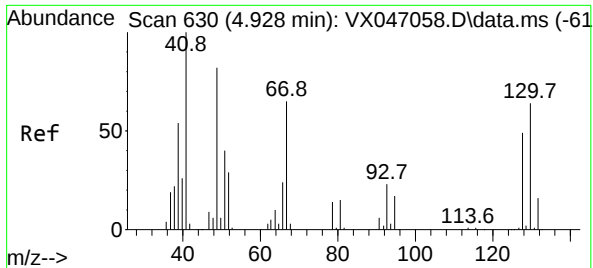
Ion Ratio Lower Upper

43 100

61 13.2 10.2 15.2

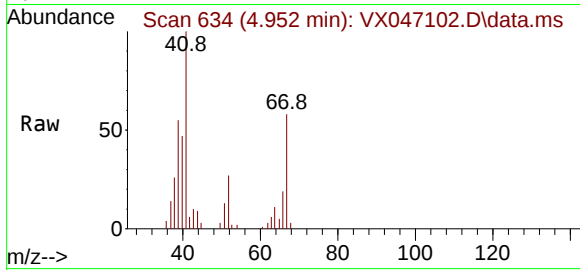
70 10.3 8.1 12.1





#41
Methacrylonitrile
Concen: 4.100 ug/l
RT: 4.952 min Scan# 61
Delta R.T. 0.024 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

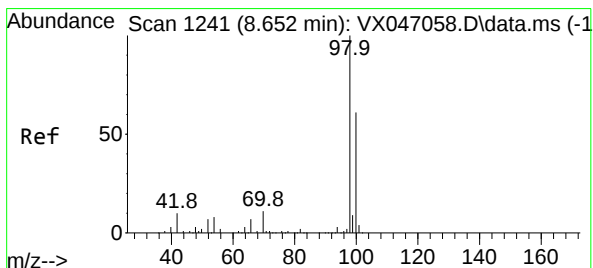
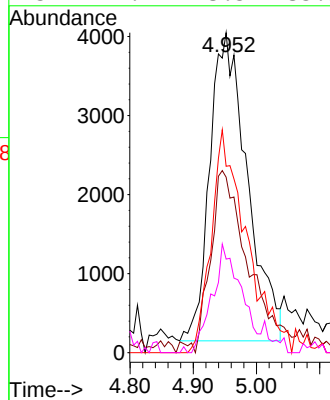
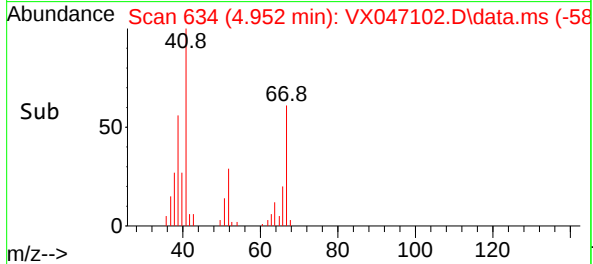
Instrument :
MSVOA_X
ClientSampleId :
CC0627-OXL



Tgt Ion: 41 Resp: 16069
Ion Ratio Lower Upper
41 100
39 59.6 44.2 66.2
67 68.0 56.4 84.6
52 27.2 23.5 35.3

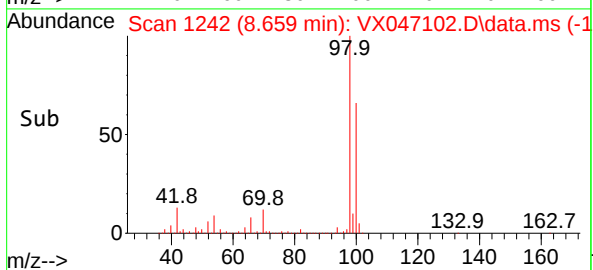
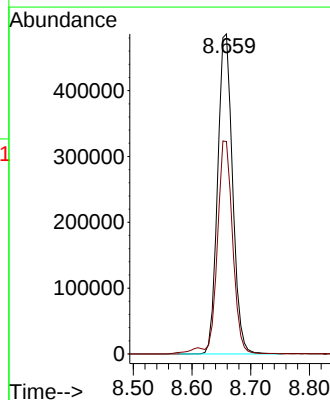
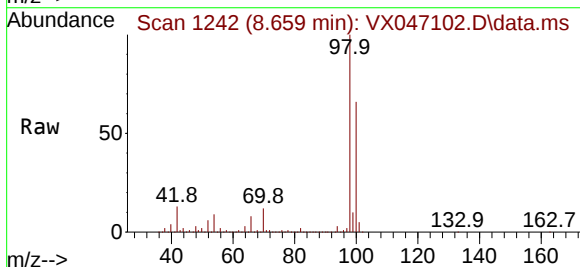
Manual Integrations
APPROVED

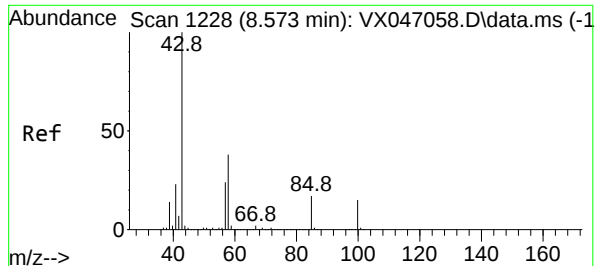
Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#50
Toluene-d8
Concen: 55.448 ug/l
RT: 8.659 min Scan# 1242
Delta R.T. 0.006 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

Tgt Ion: 98 Resp: 856992
Ion Ratio Lower Upper
98 100
100 66.6 53.3 79.9





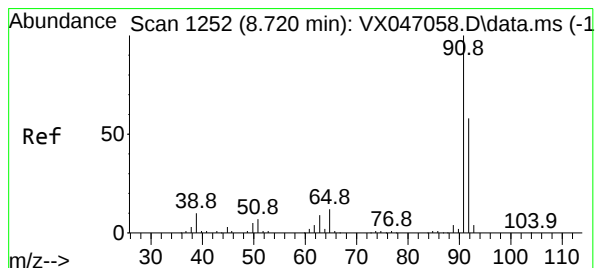
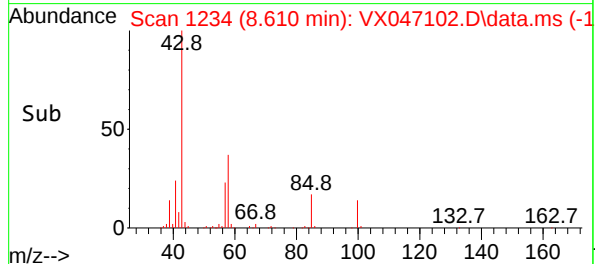
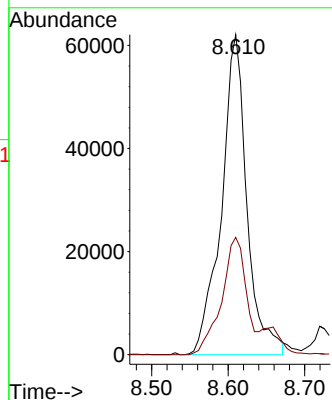
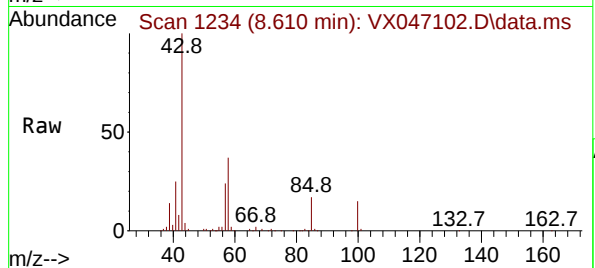
#51
4-Methyl-2-Pentanone
Concen: 20.628 ug/l m
RT: 8.610 min Scan# 1234
Delta R.T. 0.037 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

Instrument :
MSVOA_X
ClientSampleId :
CC0627-OXL

Tgt Ion: 43 Resp: 143285
Ion Ratio Lower Upper
43 100
58 36.2 30.6 45.8

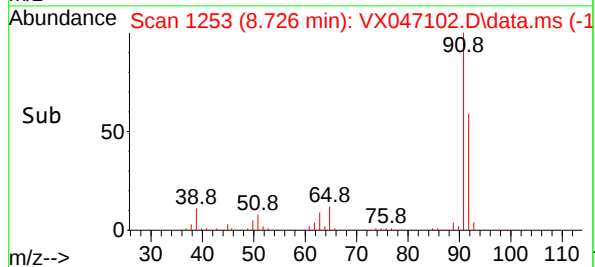
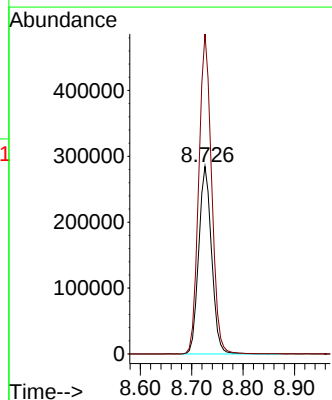
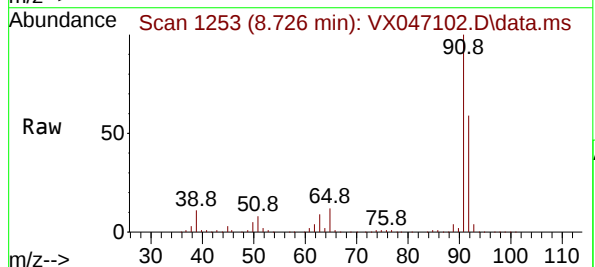
Manual Integrations
APPROVED

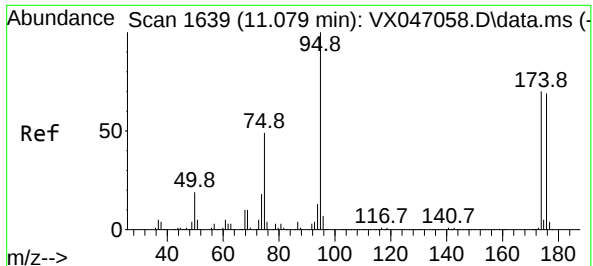
Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#52
Toluene
Concen: 34.150 ug/l
RT: 8.726 min Scan# 1253
Delta R.T. 0.006 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

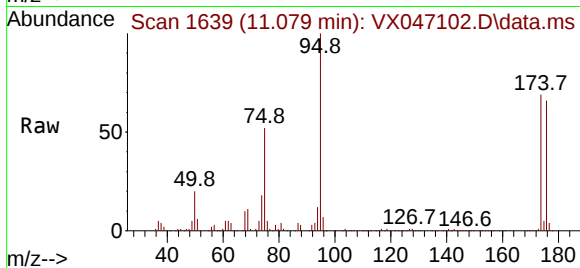
Tgt Ion: 92 Resp: 494369
Ion Ratio Lower Upper
92 100
91 170.3 137.9 206.9





#62
4-Bromofluorobenzene
Concen: 42.168 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

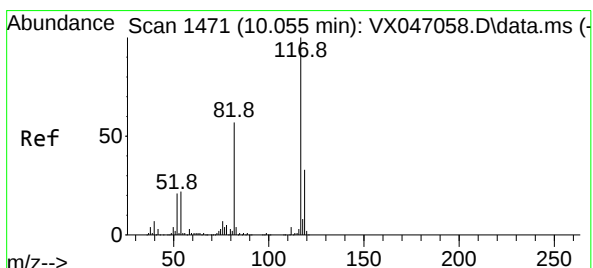
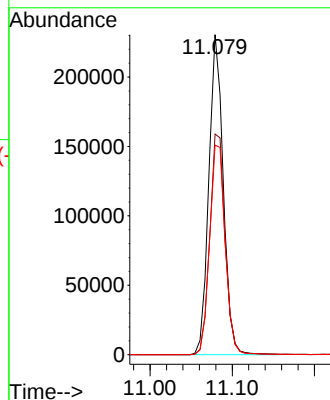
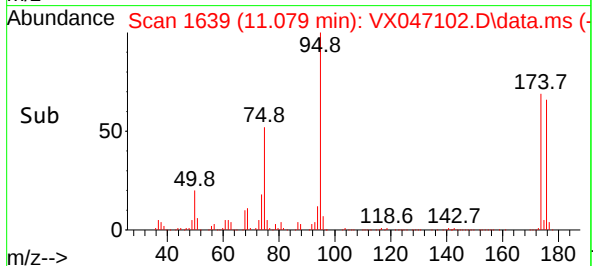
Instrument :
MSVOA_X
ClientSampleId :
CC0627-OXL



Tgt Ion: 95 Resp: 280864
Ion Ratio Lower Upper
95 100
174 73.2 0.0 144.6
176 70.8 0.0 139.6

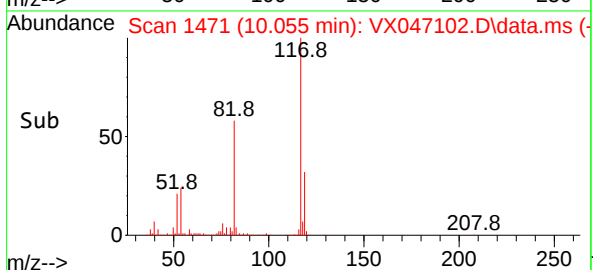
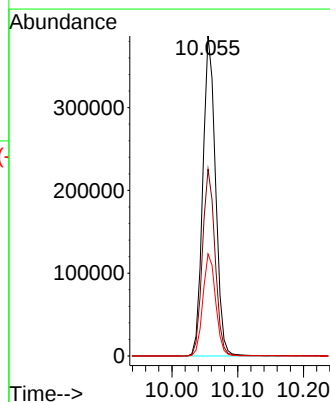
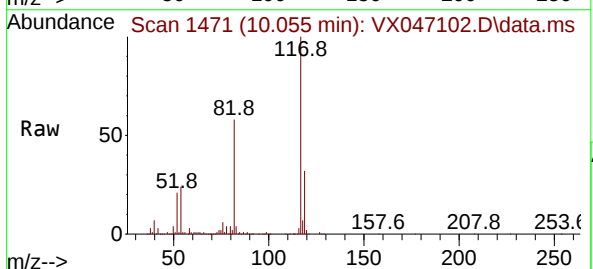
Manual Integrations
APPROVED

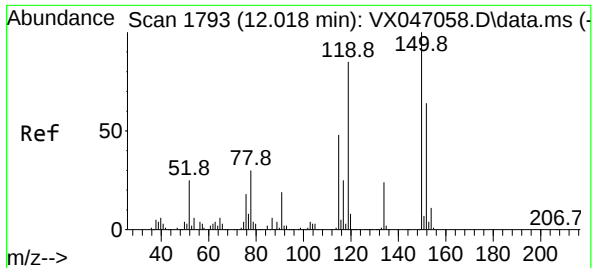
Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047102.D
Acq: 23 Jul 2025 19:00

Tgt Ion:117 Resp: 519074
Ion Ratio Lower Upper
117 100
82 58.4 45.4 68.2
119 31.9 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047102.D

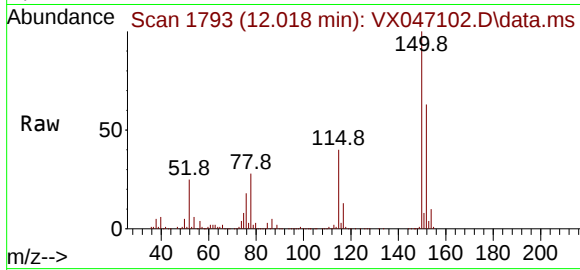
Acq: 23 Jul 2025 19:00

Instrument :

MSVOA_X

ClientSampleId :

CC0627-OXL



Tgt Ion:152 Resp: 323235

Ion Ratio Lower Upper

152 100

115 62.1 45.6 136.7

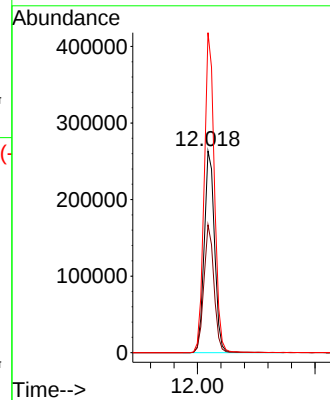
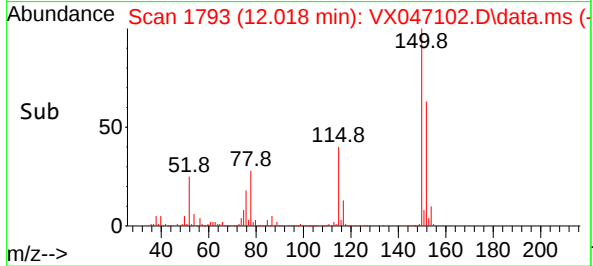
150 156.4 0.0 354.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 07/24/2025

Supervised By :Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047121.D
 Acq On : 24 Jul 2025 15:33
 Operator : JC/MD
 Sample : Q2481-19 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-CLOXAL

Quant Time: Jul 25 01:25:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

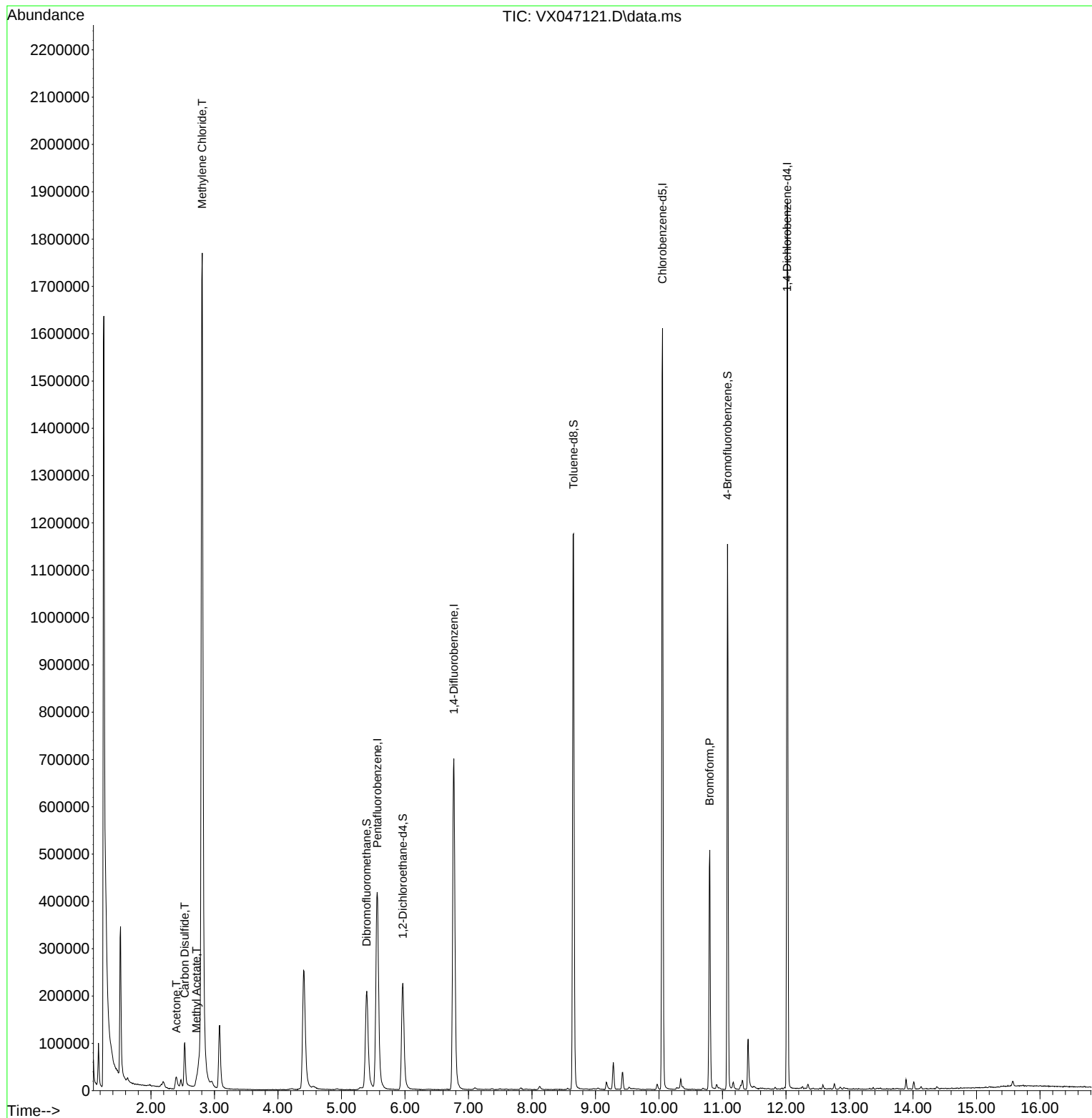
Internal Standards						
1) Pentafluorobenzene	5.562	168	414773	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	745400	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	702427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	362645	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	239435	46.341	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	92.680%		
35) Dibromofluoromethane	5.397	113	198177	43.060	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	86.120%		
50) Toluene-d8	8.653	98	718564	48.211	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.420%		
62) 4-Bromofluorobenzene	11.079	95	301699	46.971	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.940%		
Target Compounds						
					Qvalue	
16) Acetone	2.398	43	49665	23.995	ug/l	91
17) Carbon Disulfide	2.532	76	141496	9.383	ug/l	98
18) Methyl Acetate	2.715	43	14901	2.709	ug/l	98
20) Methylene Chloride	2.806	84	856836	150.473	ug/l	99
71) Bromoform	10.799	173	167778	39.867	ug/l #	100

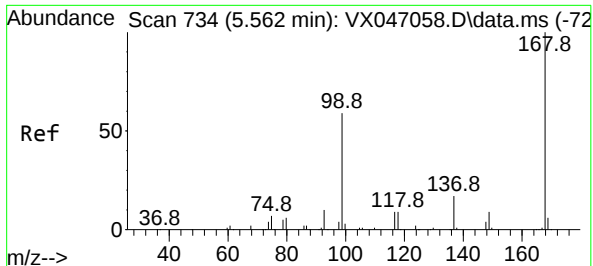
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047121.D
Acq On : 24 Jul 2025 15:33
Operator : JC/MD
Sample : Q2481-19 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXAL

Quant Time: Jul 25 01:25:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

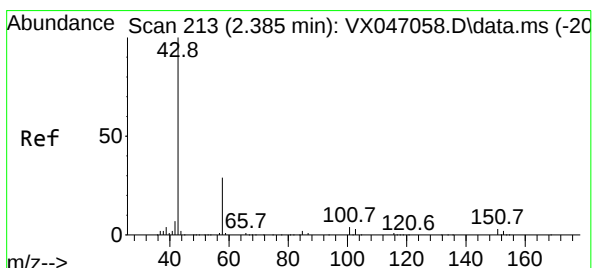
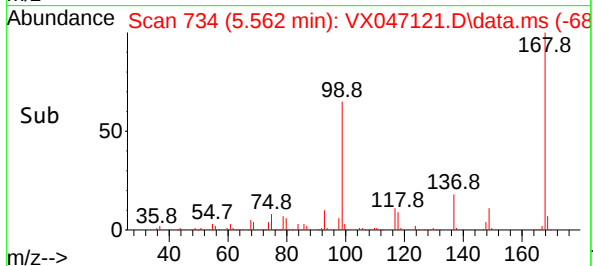
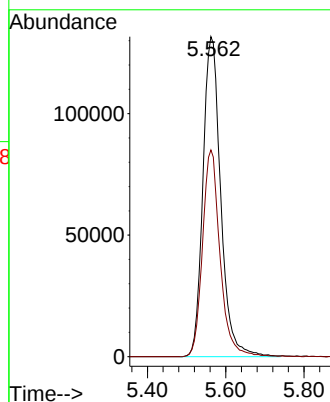
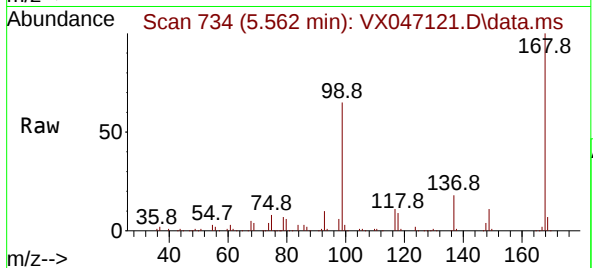




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047121.D
Acq: 24 Jul 2025 15:33

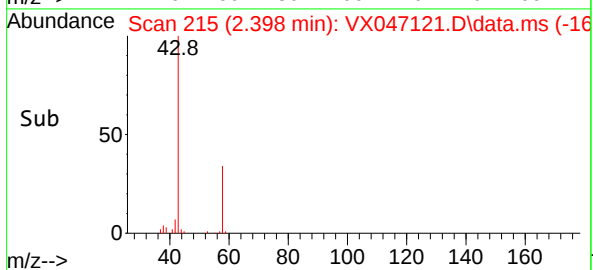
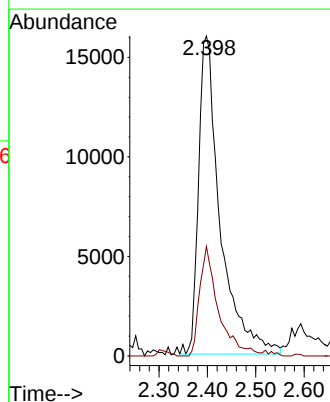
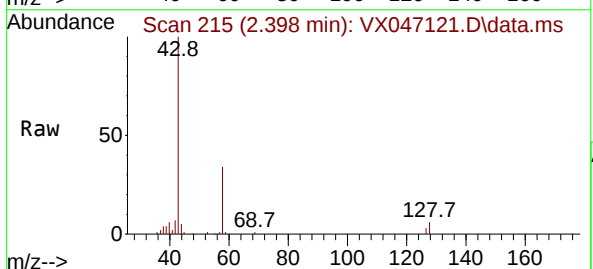
Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXAL

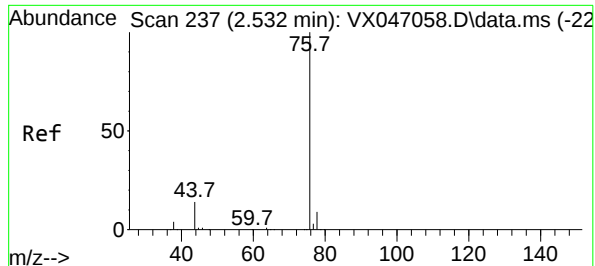
Tgt Ion:168 Resp: 414773
Ion Ratio Lower Upper
168 100
99 64.6 48.0 72.0



#16
Acetone
Concen: 23.995 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.013 min
Lab File: VX047121.D
Acq: 24 Jul 2025 15:33

Tgt Ion: 43 Resp: 49665
Ion Ratio Lower Upper
43 100
58 35.1 24.0 36.0

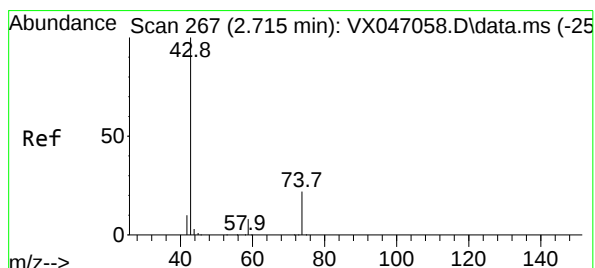
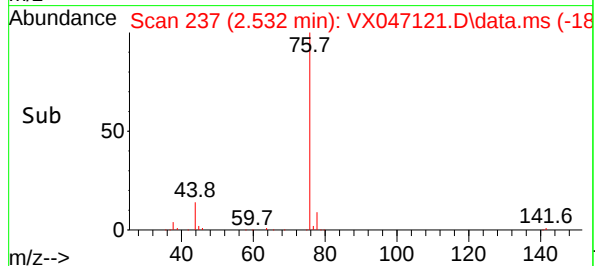
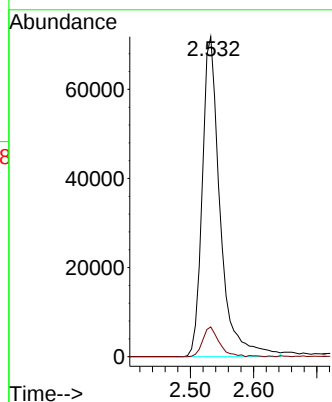
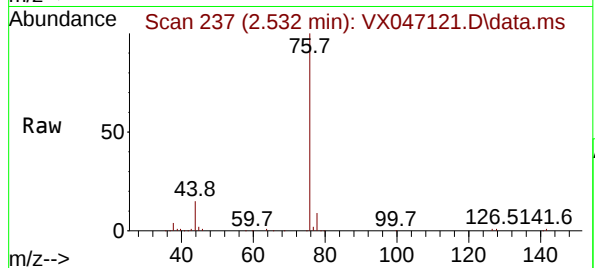




#17
Carbon Disulfide
Concen: 9.383 ug/l
RT: 2.532 min Scan# 211
Delta R.T. 0.001 min
Lab File: VX047121.D
Acq: 24 Jul 2025 15:33

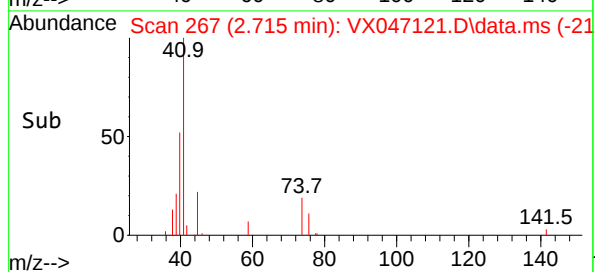
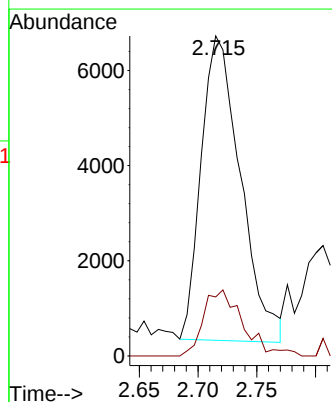
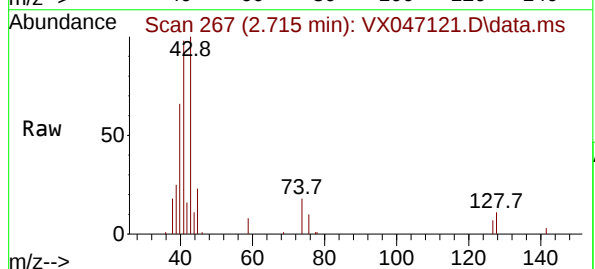
Instrument :
MSVOA_X
ClientSampleId :
CC0627-CLOXAL

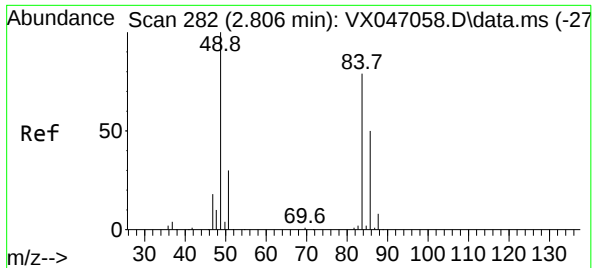
Tgt Ion: 76 Resp: 141496
Ion Ratio Lower Upper
76 100
78 9.3 7.0 10.4



#18
Methyl Acetate
Concen: 2.709 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX047121.D
Acq: 24 Jul 2025 15:33

Tgt Ion: 43 Resp: 14901
Ion Ratio Lower Upper
43 100
74 21.2 17.7 26.5





#20

Methylene Chloride

Concen: 150.473 ug/l

RT: 2.806 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXAL

Tgt Ion: 84 Resp: 856836

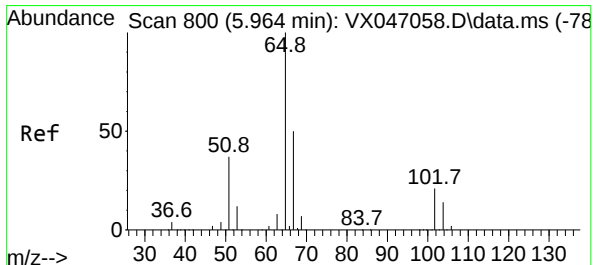
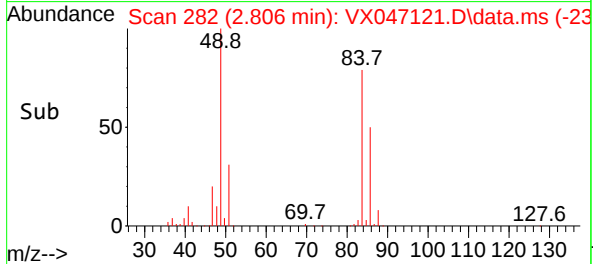
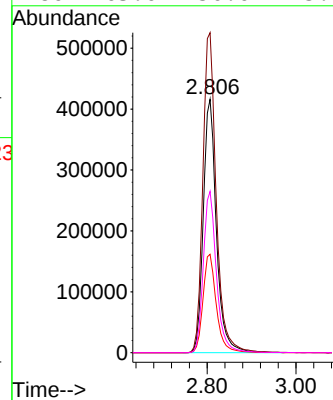
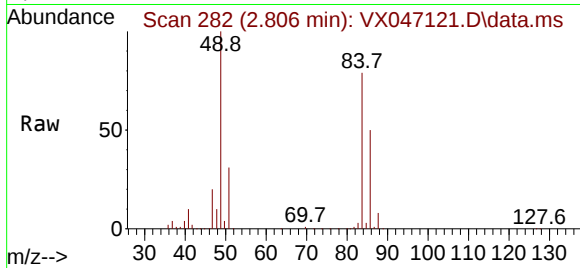
Ion Ratio Lower Upper

84 100

49 126.2 101.6 152.4

51 38.8 30.3 45.5

86 63.6 50.6 75.8



#33

1,2-Dichloroethane-d4

Concen: 46.341 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047121.D

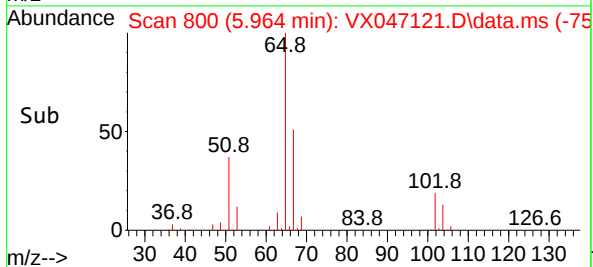
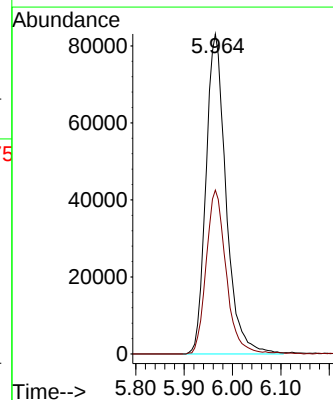
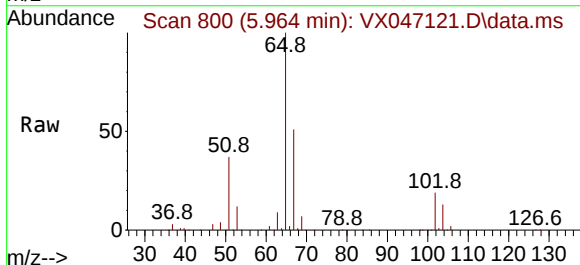
Acq: 24 Jul 2025 15:33

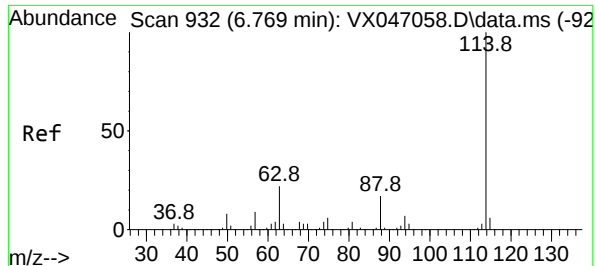
Tgt Ion: 65 Resp: 239435

Ion Ratio Lower Upper

65 100

67 51.0 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXAL

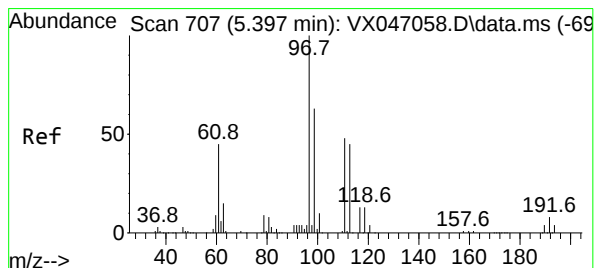
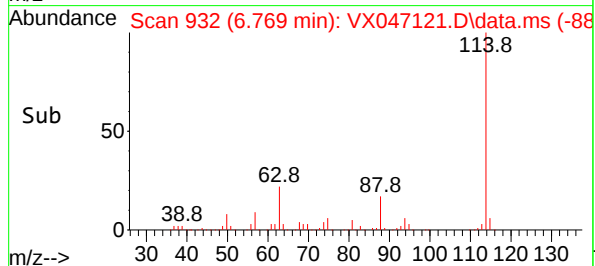
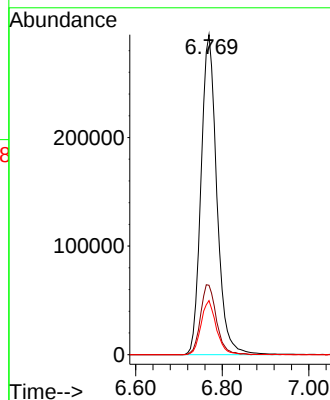
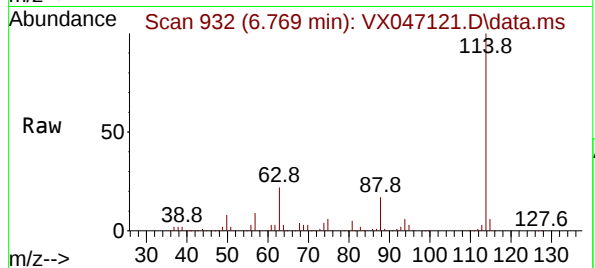
Tgt Ion:114 Resp: 745400

Ion Ratio Lower Upper

114 100

63 21.7 0.0 43.2

88 16.9 0.0 33.8



#35

Dibromofluoromethane

Concen: 43.060 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

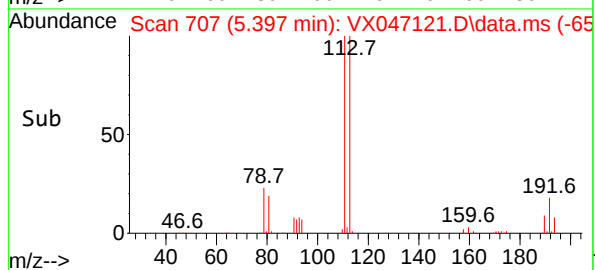
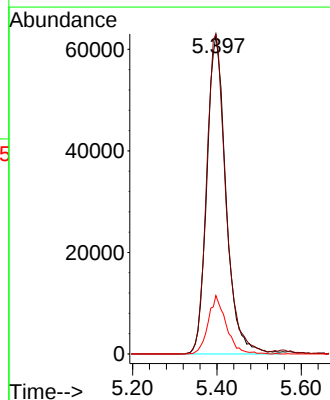
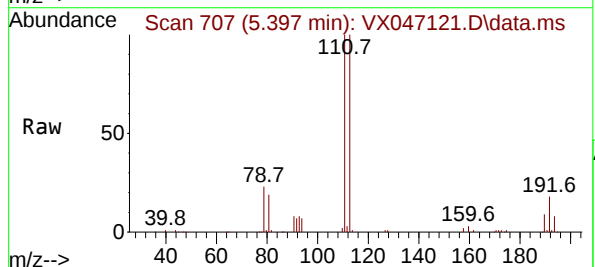
Tgt Ion:113 Resp: 198177

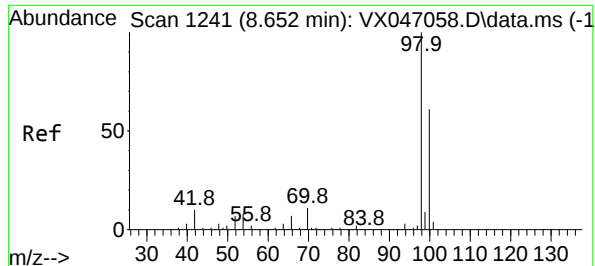
Ion Ratio Lower Upper

113 100

111 100.6 82.6 124.0

192 17.2 14.9 22.3





#50

Toluene-d8

Concen: 48.211 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.001 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

Instrument :

MSVOA_X

ClientSampleId :

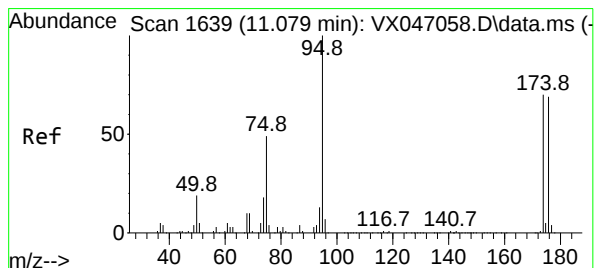
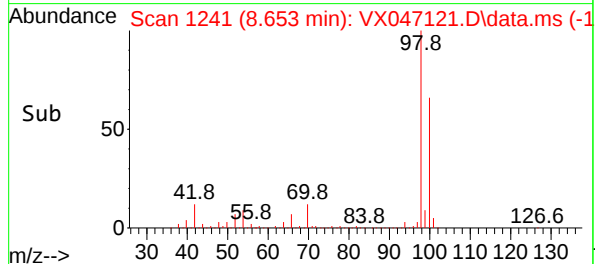
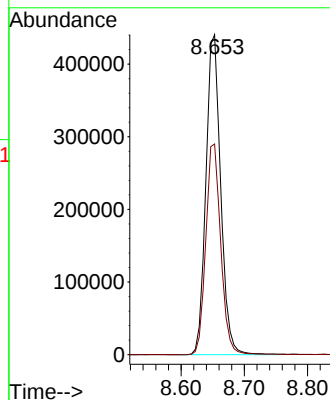
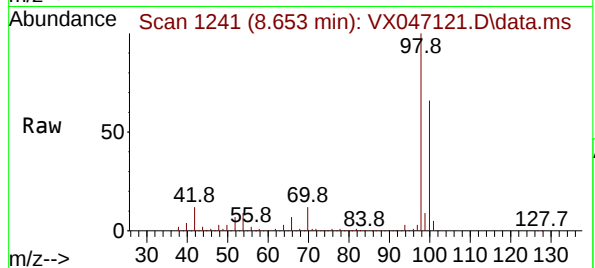
CC0627-CLOXAL

Tgt Ion: 98 Resp: 718564

Ion Ratio Lower Upper

98 100

100 66.4 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 46.971 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

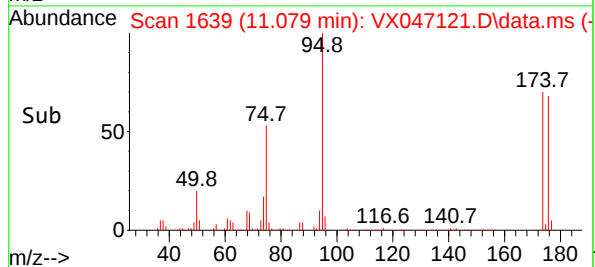
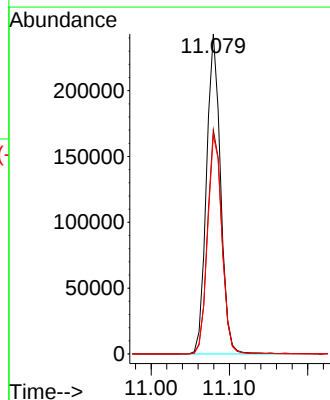
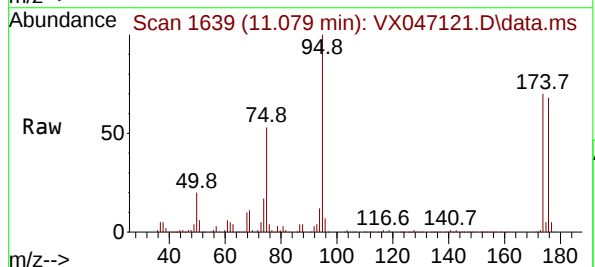
Tgt Ion: 95 Resp: 301699

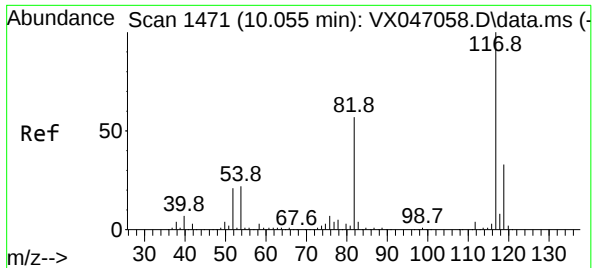
Ion Ratio Lower Upper

95 100

174 71.8 0.0 144.6

176 69.8 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXAL

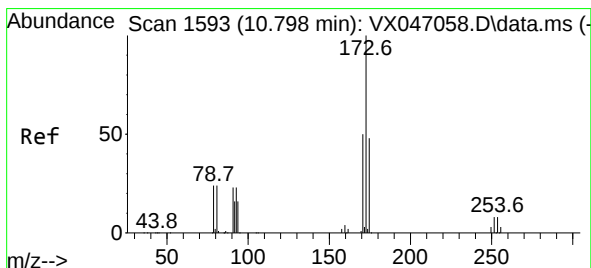
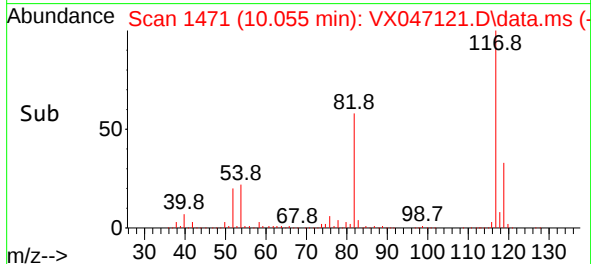
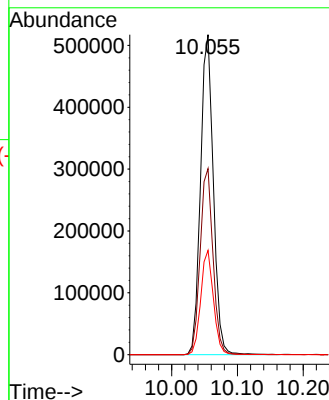
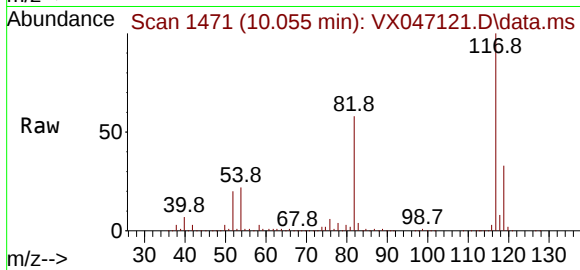
Tgt Ion:117 Resp: 702427

Ion Ratio Lower Upper

117 100

82 58.2 45.4 68.2

119 32.6 26.1 39.1



#71

Bromoform

Concen: 39.867 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX047121.D

Acq: 24 Jul 2025 15:33

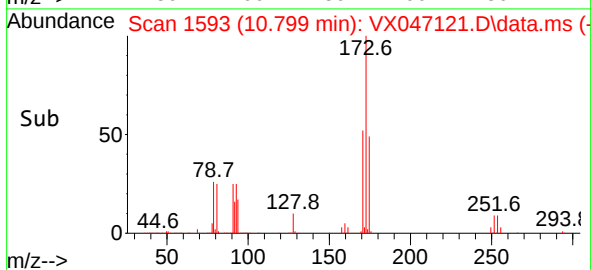
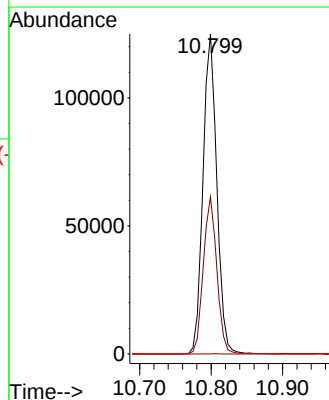
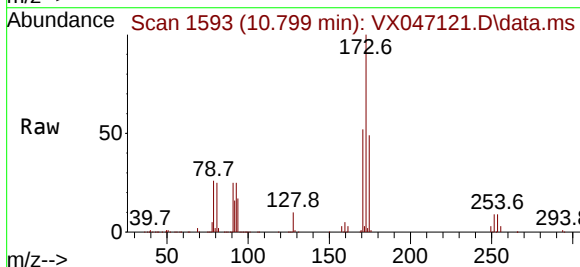
Tgt Ion:173 Resp: 167778

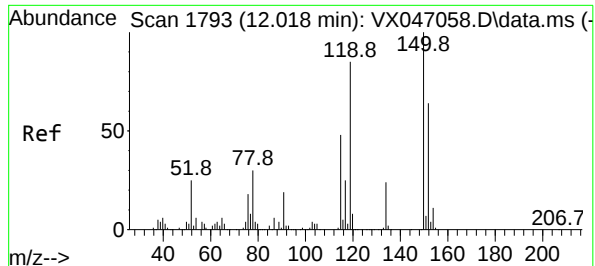
Ion Ratio Lower Upper

173 100

175 48.1 24.2 72.6

254 0.1 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.001 min

Lab File: VX047121.D

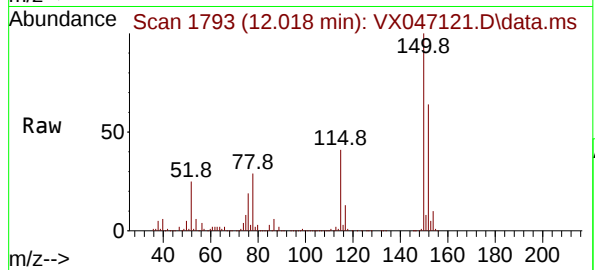
Acq: 24 Jul 2025 15:33

Instrument :

MSVOA_X

ClientSampleId :

CC0627-CLOXAL



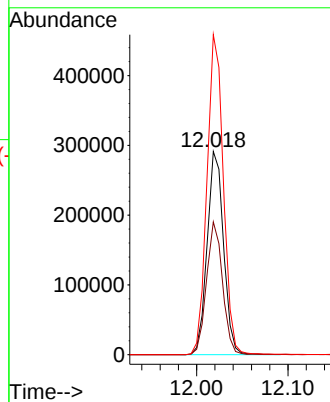
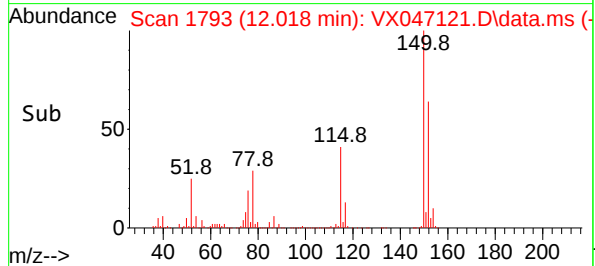
Tgt Ion:152 Resp: 362645

Ion Ratio Lower Upper

152 100

115 63.8 45.6 136.7

150 157.2 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047122.D
 Acq On : 24 Jul 2025 15:54
 Operator : JC/MD
 Sample : Q2481-20 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-BL

Quant Time: Jul 25 01:25:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

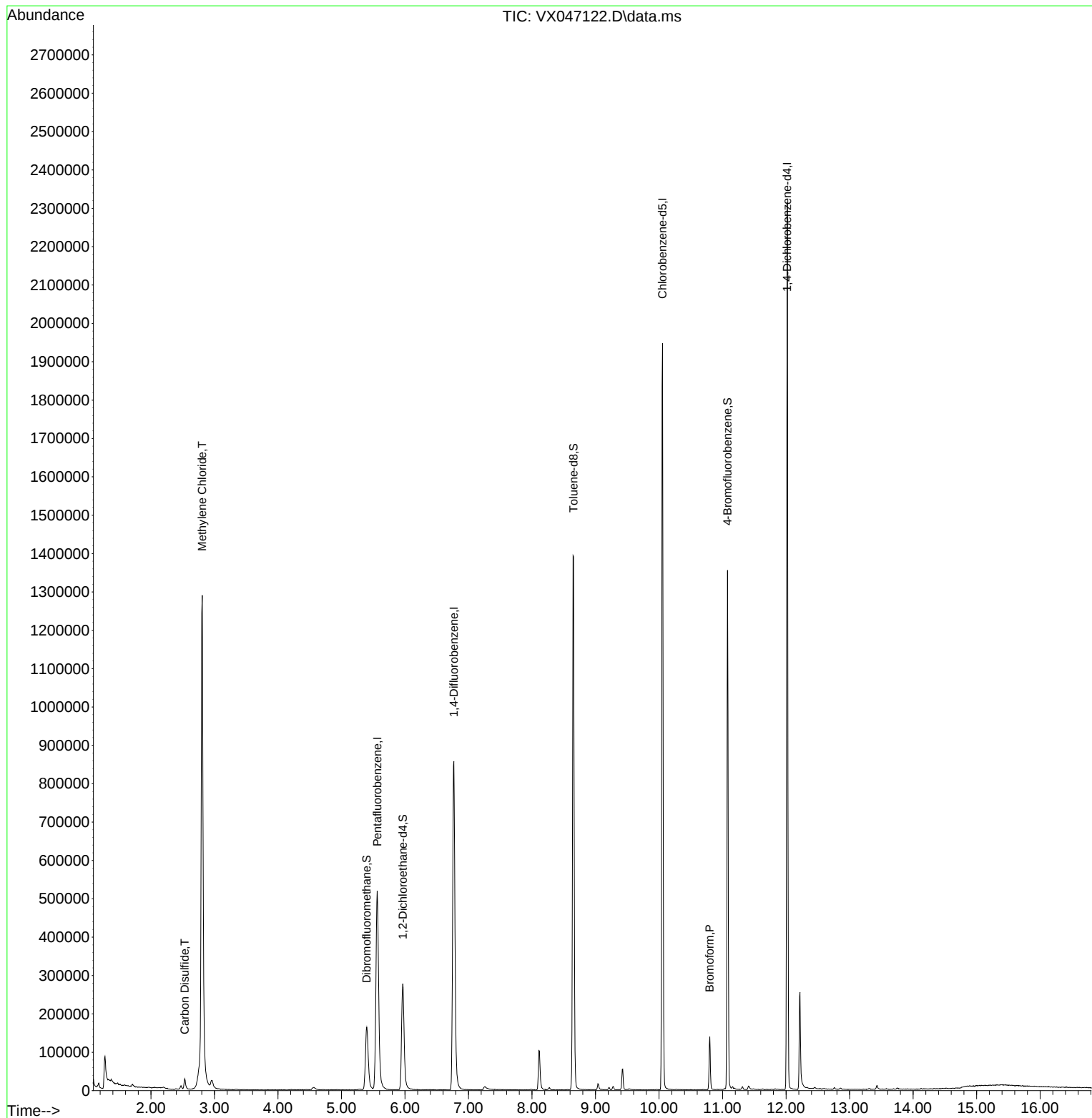
Internal Standards						
1) Pentafluorobenzene	5.562	168	503250	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	912608	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	857469	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	440518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	292044	46.586	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	93.180%
35) Dibromofluoromethane	5.397	113	155554	27.606	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	55.220%#
50) Toluene-d8	8.653	98	850076	46.585	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.160%
62) 4-Bromofluorobenzene	11.079	95	351914	44.751	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	89.500%
Target Compounds						
					Qvalue	
17) Carbon Disulfide	2.532	76	36282	1.983	ug/l	98
20) Methylene Chloride	2.806	84	624555	90.398	ug/l	99
71) Bromoform	10.799	173	49616	9.658	ug/l #	98

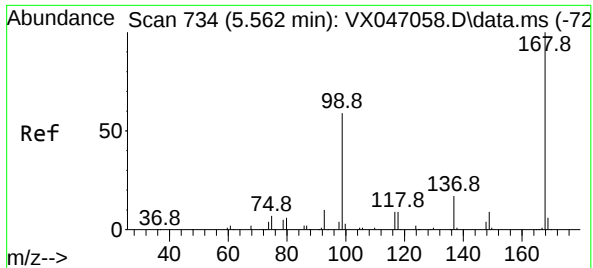
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047122.D
Acq On : 24 Jul 2025 15:54
Operator : JC/MD
Sample : Q2481-20 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0627-BL

Quant Time: Jul 25 01:25:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

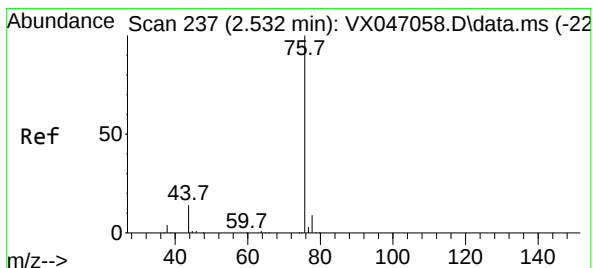
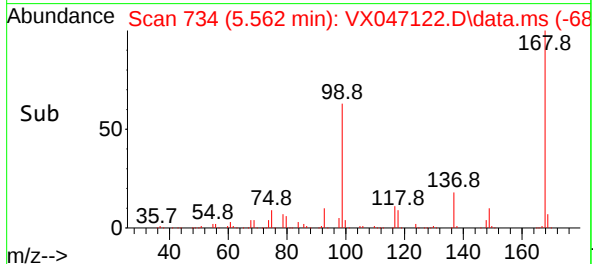
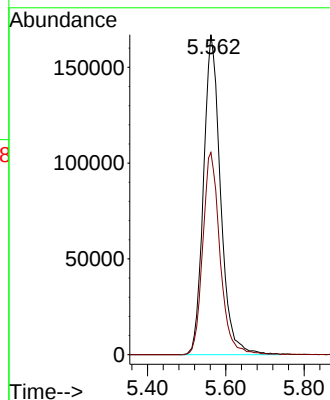
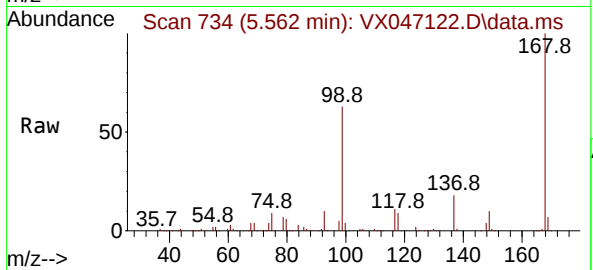




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.000 min
Lab File: VX047122.D
Acq: 24 Jul 2025 15:54

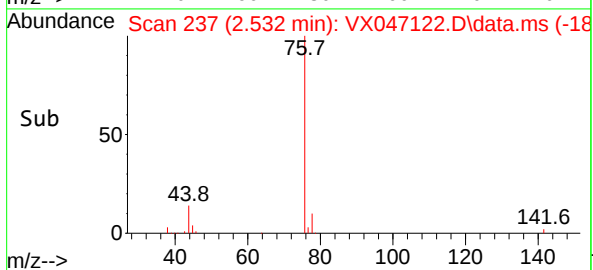
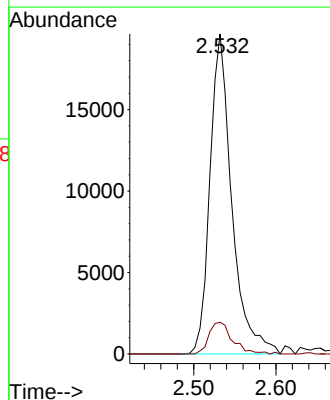
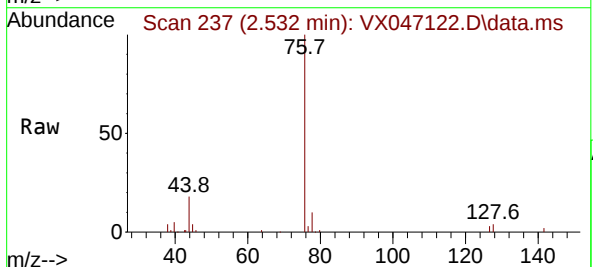
Instrument :
MSVOA_X
ClientSampleId :
CC0627-BL

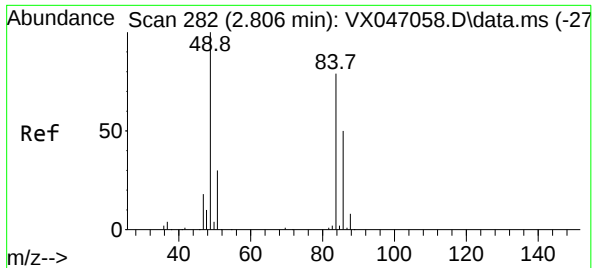
Tgt Ion:168 Resp: 503250
Ion Ratio Lower Upper
168 100
99 63.2 48.0 72.0



#17
Carbon Disulfide
Concen: 1.983 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047122.D
Acq: 24 Jul 2025 15:54

Tgt Ion: 76 Resp: 36282
Ion Ratio Lower Upper
76 100
78 9.6 7.0 10.4





#20

Methylene Chloride

Concen: 90.398 ug/l

RT: 2.806 min Scan# 2

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

Instrument :

MSVOA_X

ClientSampleId :

CC0627-BL

Tgt Ion: 84 Resp: 624555

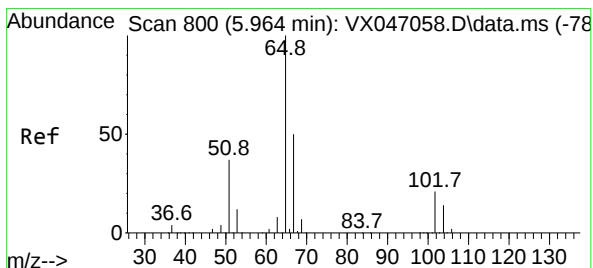
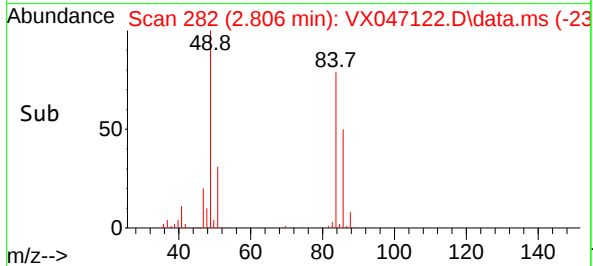
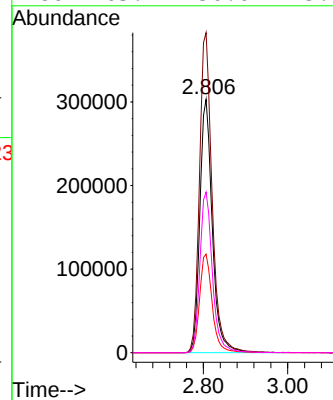
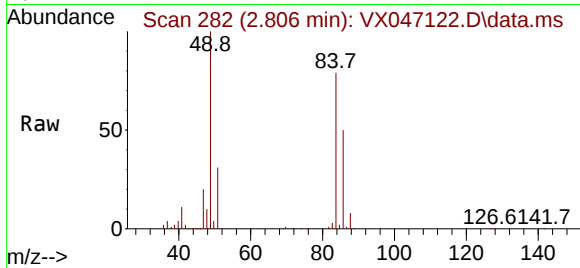
Ion Ratio Lower Upper

84 100

49 126.3 101.6 152.4

51 38.9 30.3 45.5

86 63.4 50.6 75.8



#33

1,2-Dichloroethane-d4

Concen: 46.586 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047122.D

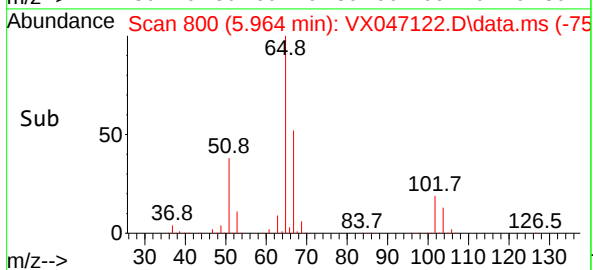
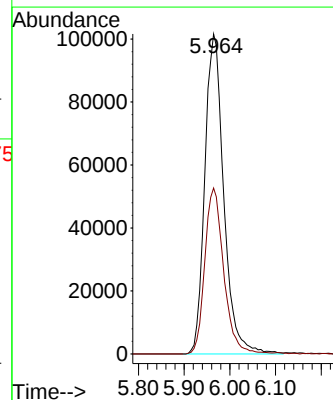
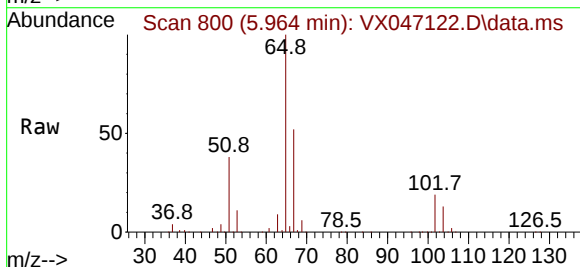
Acq: 24 Jul 2025 15:54

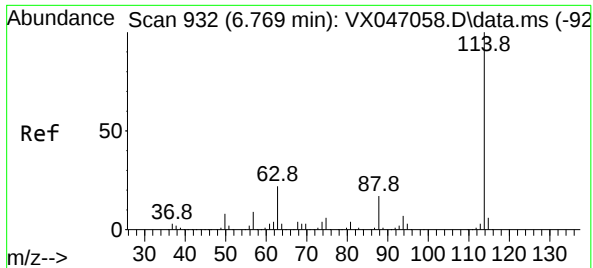
Tgt Ion: 65 Resp: 292044

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 912

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

Instrument :

MSVOA_X

ClientSampleId :

CC0627-BL

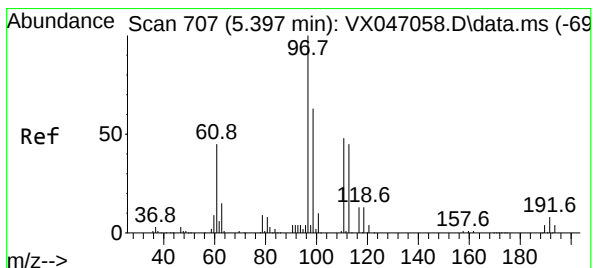
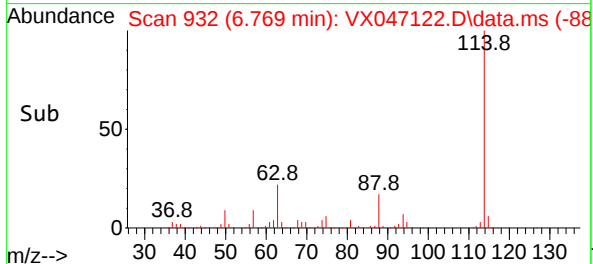
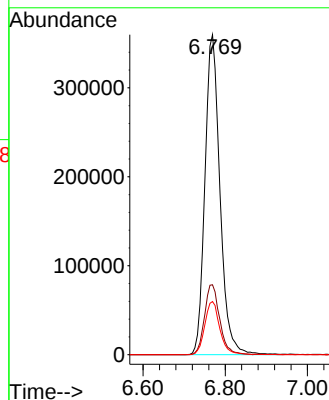
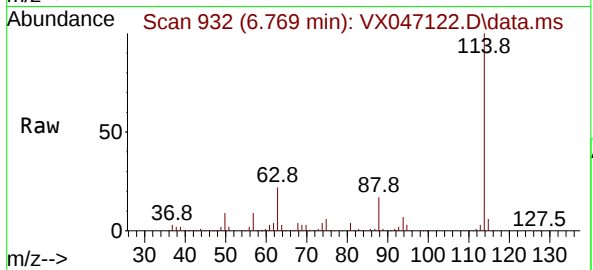
Tgt Ion:114 Resp: 912608

Ion Ratio Lower Upper

114 100

63 21.8 0.0 43.2

88 16.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 27.606 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

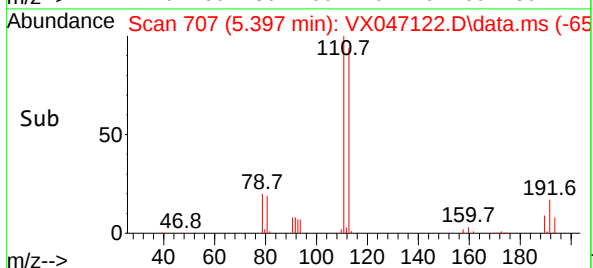
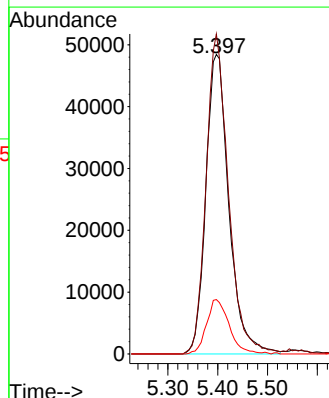
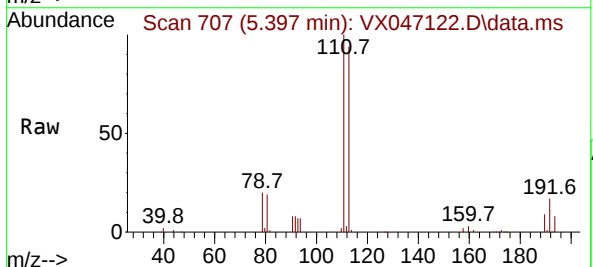
Tgt Ion:113 Resp: 155554

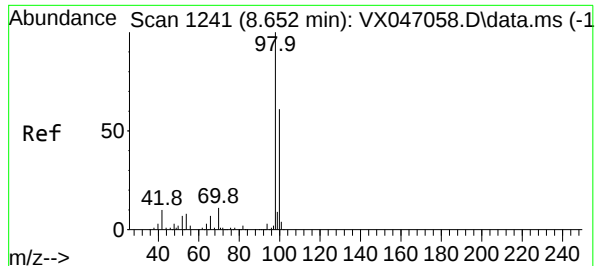
Ion Ratio Lower Upper

113 100

111 103.5 82.6 124.0

192 17.9 14.9 22.3





#50

Toluene-d8

Concen: 46.585 ug/l

RT: 8.653 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

Instrument :

MSVOA_X

ClientSampleId :

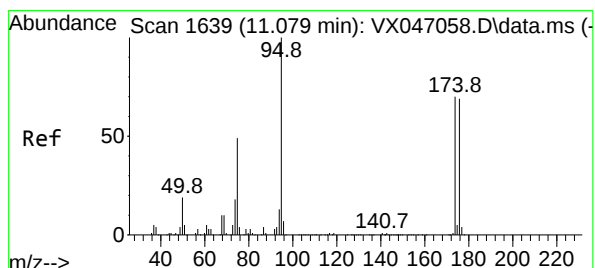
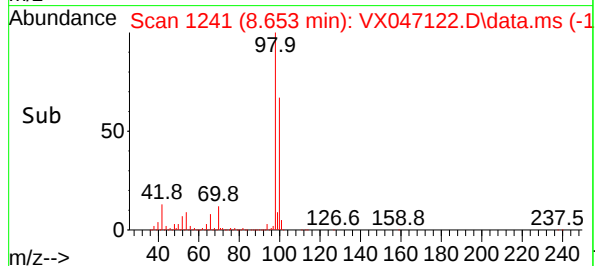
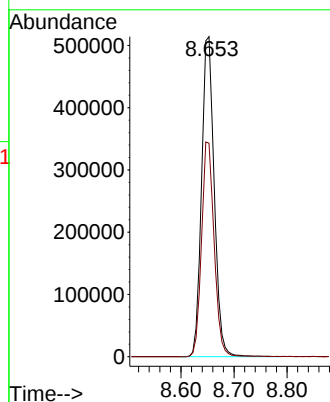
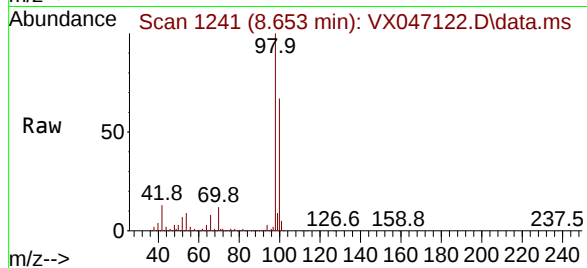
CC0627-BL

Tgt Ion: 98 Resp: 850076

Ion Ratio Lower Upper

98 100

100 67.0 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 44.751 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

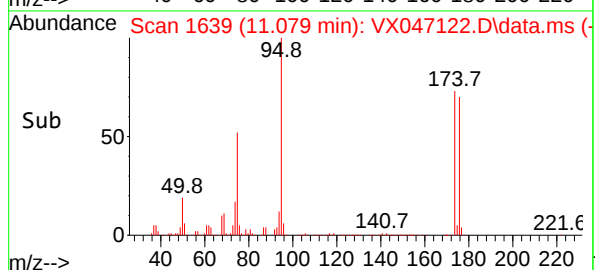
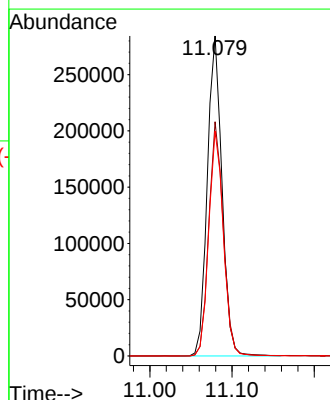
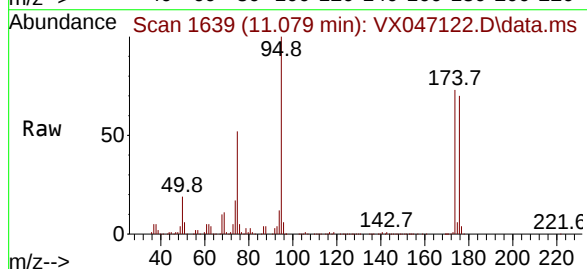
Tgt Ion: 95 Resp: 351914

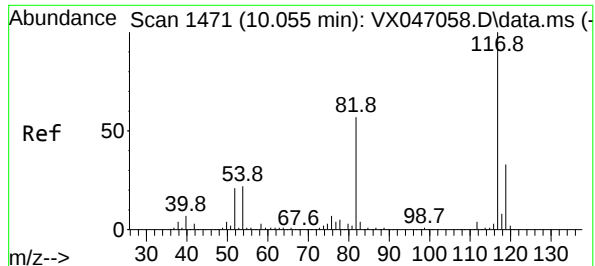
Ion Ratio Lower Upper

95 100

174 72.8 0.0 144.6

176 70.2 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

Instrument :

MSVOA_X

ClientSampleId :

CC0627-BL

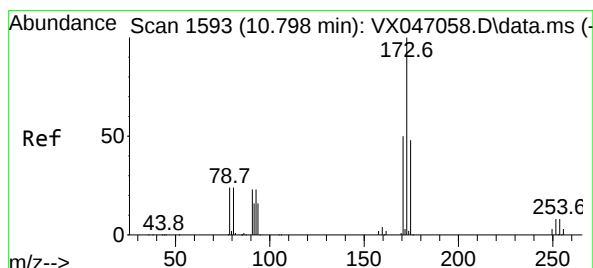
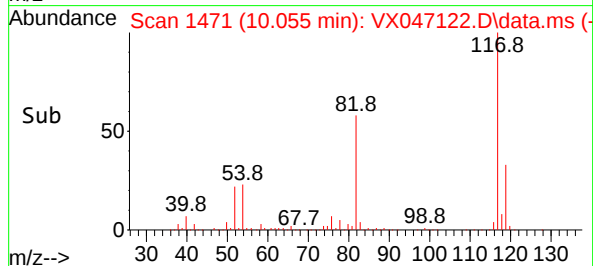
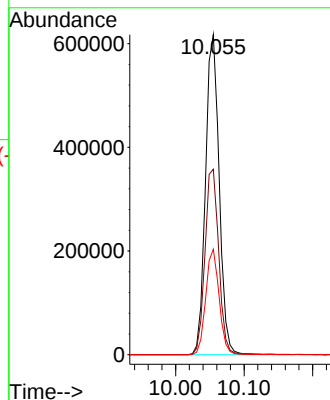
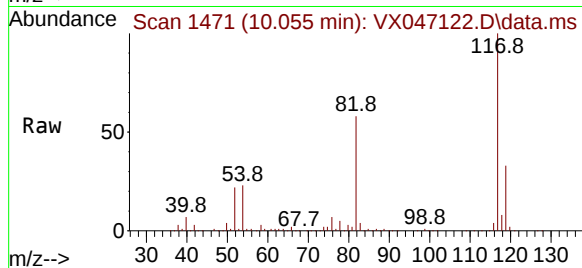
Tgt Ion:117 Resp: 857469

Ion Ratio Lower Upper

117 100

82 58.0 45.4 68.2

119 33.0 26.1 39.1



#71

Bromoform

Concen: 9.658 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX047122.D

Acq: 24 Jul 2025 15:54

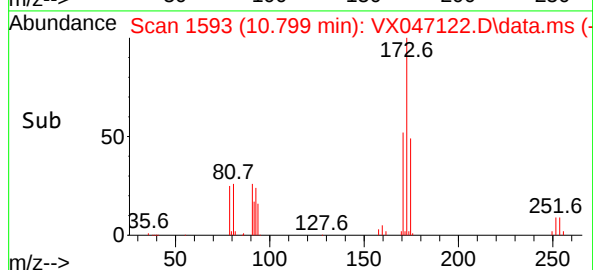
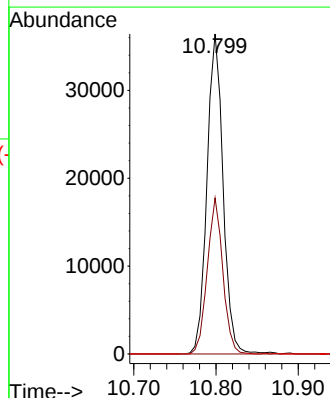
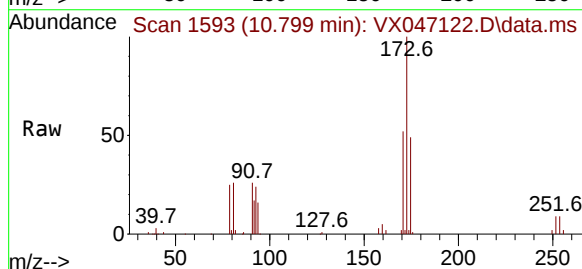
Tgt Ion:173 Resp: 49616

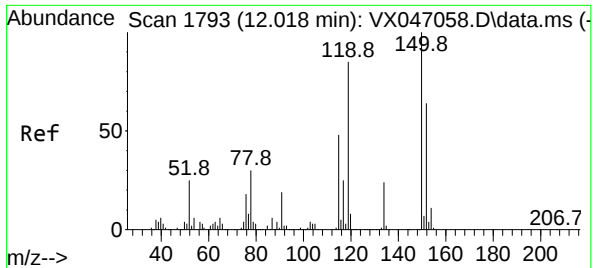
Ion Ratio Lower Upper

173 100

175 47.0 24.2 72.6

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047122.D

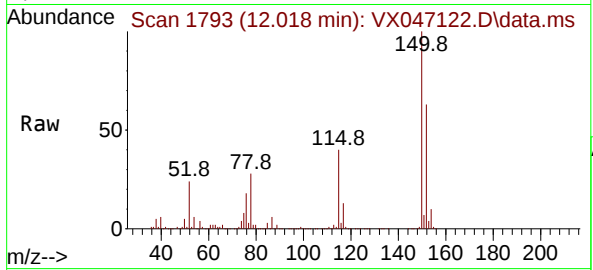
Acq: 24 Jul 2025 15:54

Instrument :

MSVOA_X

ClientSampleId :

CC0627-BL



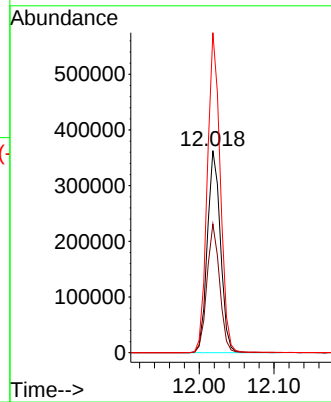
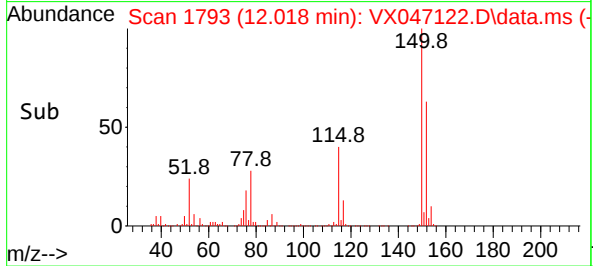
Tgt Ion:152 Resp: 440518

Ion Ratio Lower Upper

152 100

115 61.8 45.6 136.7

150 156.8 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047120.D
 Acq On : 24 Jul 2025 15:12
 Operator : JC/MD
 Sample : Q2481-21 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CC0627-SFBL

Quant Time: Jul 25 01:24:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

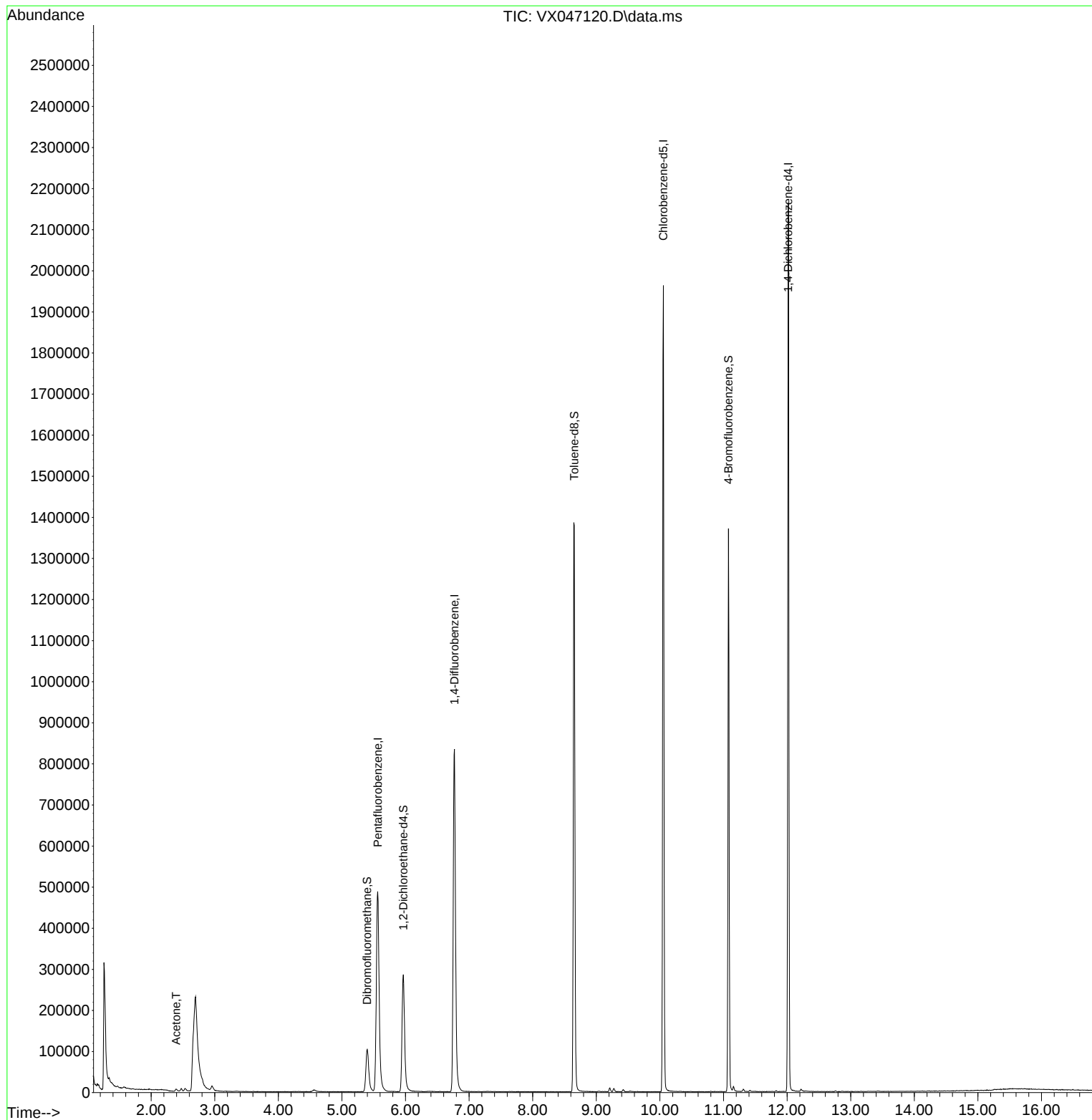
Internal Standards						
1) Pentafluorobenzene	5.562	168	488832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	892867	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	845132	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	418999	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	302516	49.680	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.360%
35) Dibromofluoromethane	5.397	113	100894	18.302	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	36.600%#
50) Toluene-d8	8.653	98	856632	47.982	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.960%
62) 4-Bromofluorobenzene	11.079	95	362137	47.069	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.140%
Target Compounds						
16) Acetone	2.392	43	7716	3.163	ug/l #	Qvalue 80

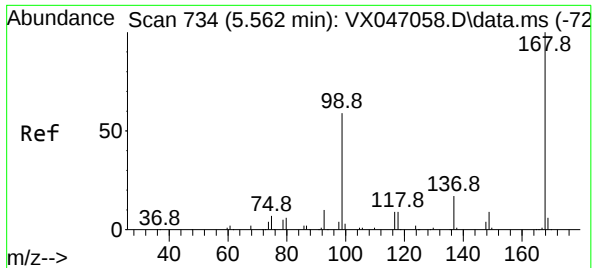
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047120.D
Acq On : 24 Jul 2025 15:12
Operator : JC/MD
Sample : Q2481-21 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
CC0627-SFBL

Quant Time: Jul 25 01:24:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

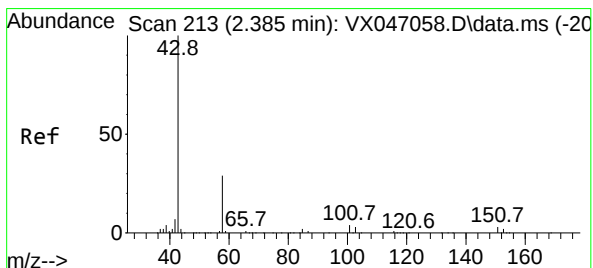
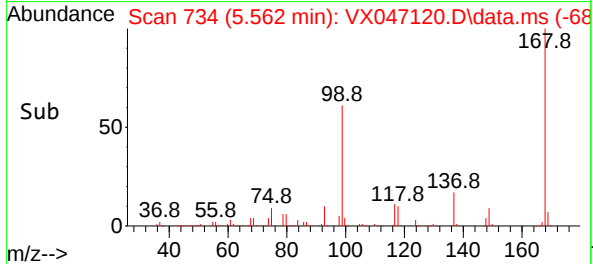
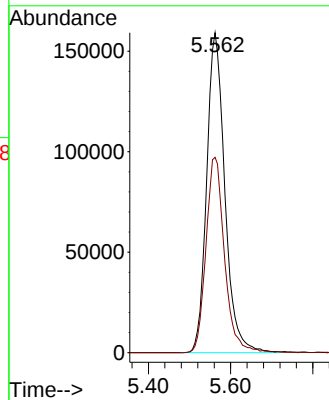
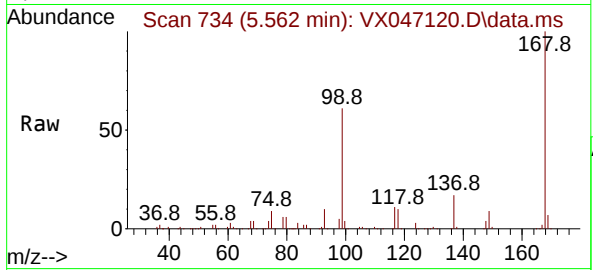




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047120.D
Acq: 24 Jul 2025 15:12

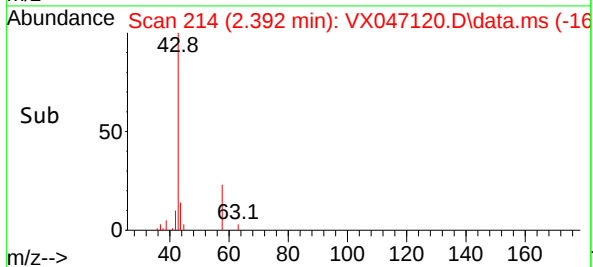
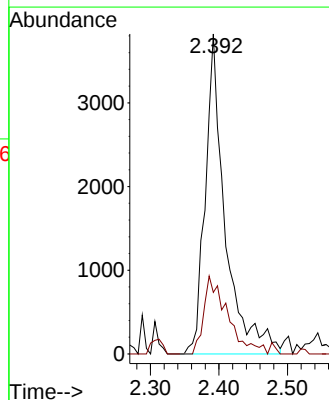
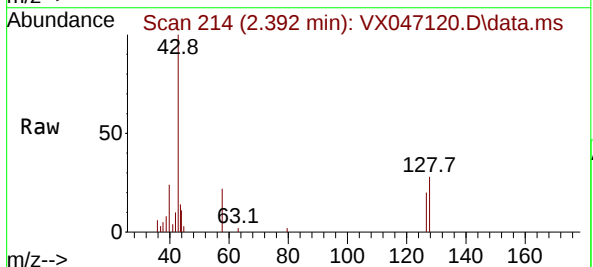
Instrument :
MSVOA_X
ClientSampleId :
CC0627-SFBL

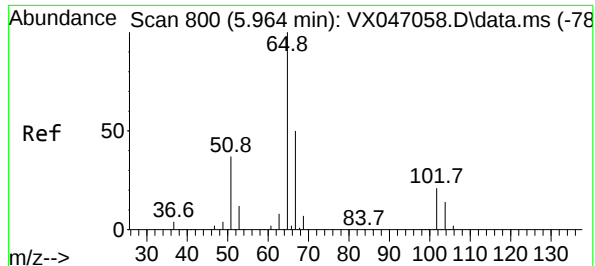
Tgt Ion:168 Resp: 488832
Ion Ratio Lower Upper
168 100
99 61.1 48.0 72.0



#16
Acetone
Concen: 3.163 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX047120.D
Acq: 24 Jul 2025 15:12

Tgt Ion: 43 Resp: 7716
Ion Ratio Lower Upper
43 100
58 19.2 24.0 36.0#





#33

1,2-Dichloroethane-d4

Concen: 49.680 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047120.D

Acq: 24 Jul 2025 15:12

Instrument :

MSVOA_X

ClientSampleId :

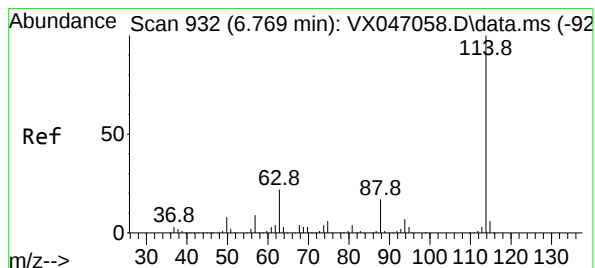
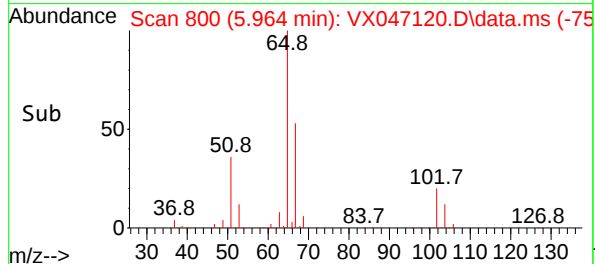
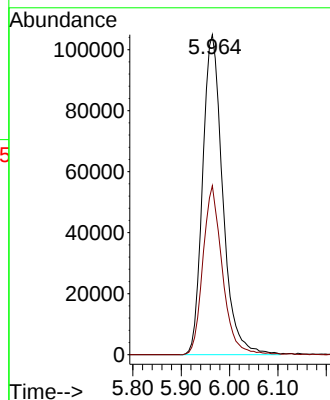
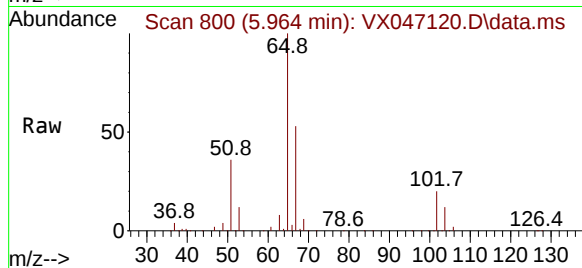
CC0627-SFBL

Tgt Ion: 65 Resp: 302516

Ion Ratio Lower Upper

65 100

67 51.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047120.D

Acq: 24 Jul 2025 15:12

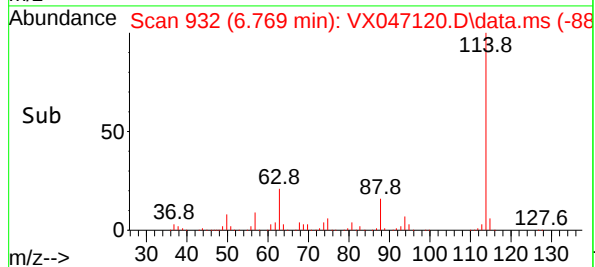
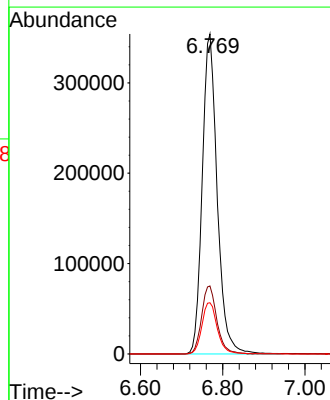
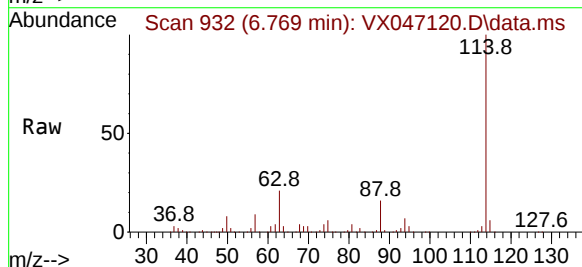
Tgt Ion: 114 Resp: 892867

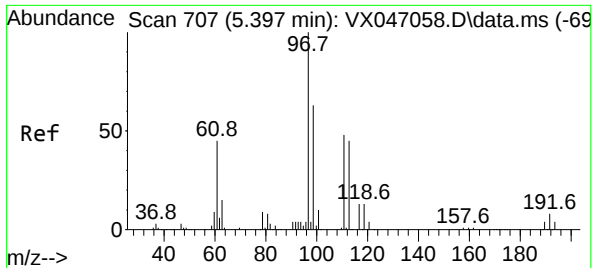
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

88 16.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 18.302 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047120.D

Acq: 24 Jul 2025 15:12

Instrument :

MSVOA_X

ClientSampleId :

CC0627-SFBL

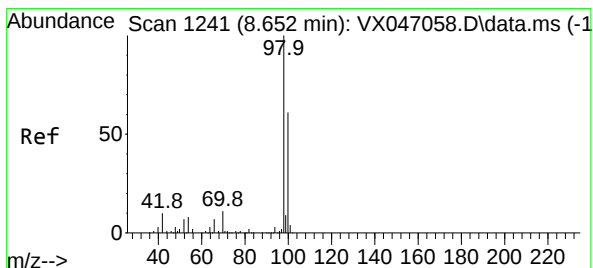
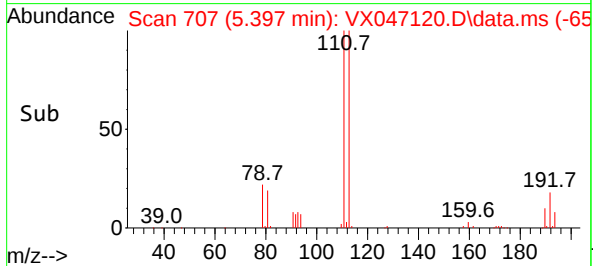
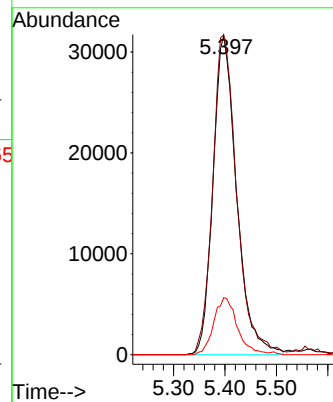
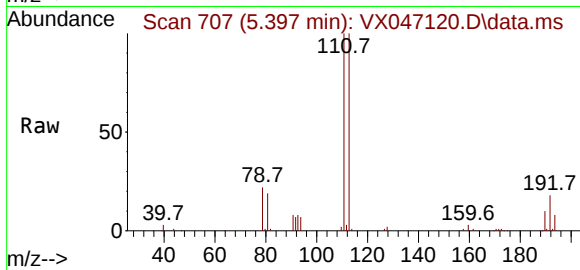
Tgt Ion:113 Resp: 100894

Ion Ratio Lower Upper

113 100

111 102.5 82.6 124.0

192 17.8 14.9 22.3



#50

Toluene-d8

Concen: 47.982 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047120.D

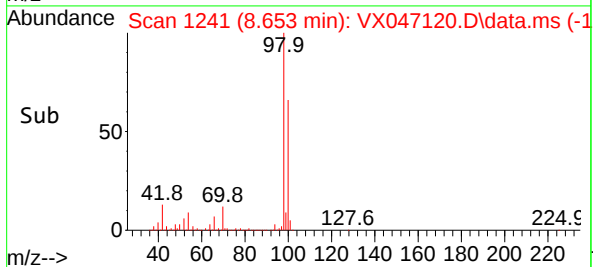
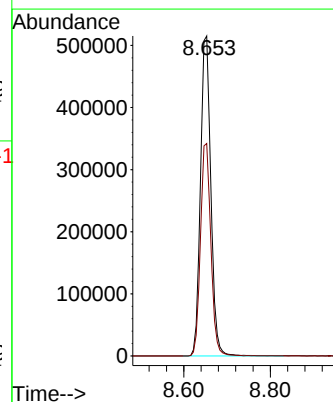
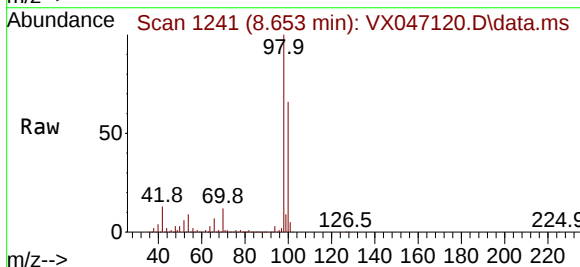
Acq: 24 Jul 2025 15:12

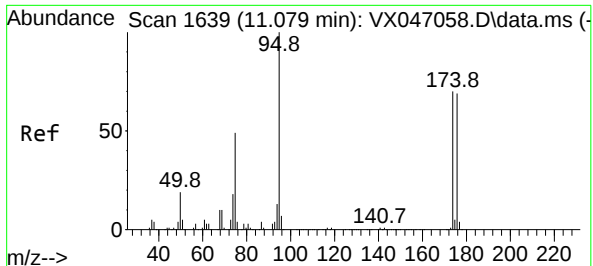
Tgt Ion: 98 Resp: 856632

Ion Ratio Lower Upper

98 100

100 66.5 53.3 79.9





#62

4-Bromofluorobenzene

Concen: 47.069 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047120.D

Acq: 24 Jul 2025 15:12

Instrument :

MSVOA_X

ClientSampleId :

CC0627-SFBL

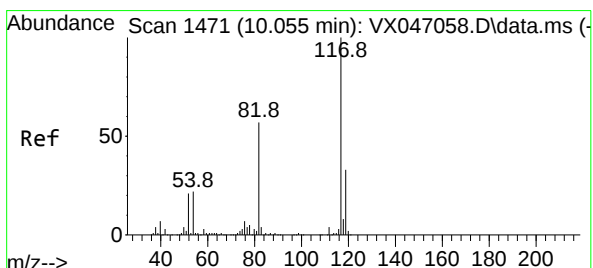
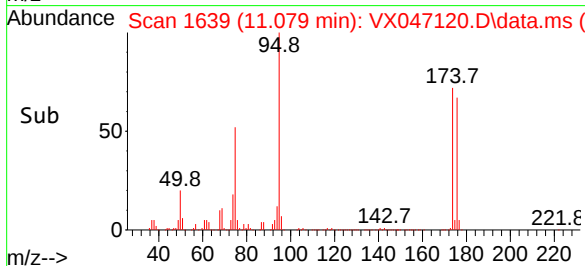
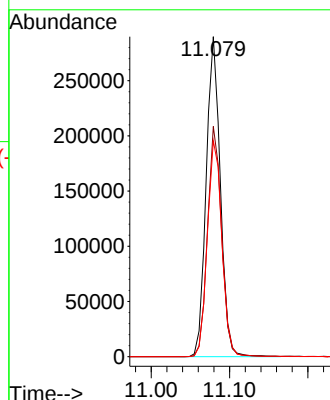
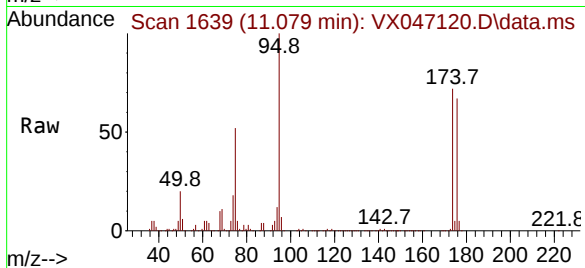
Tgt Ion: 95 Resp: 362137

Ion Ratio Lower Upper

95 100

174 72.1 0.0 144.6

176 69.5 0.0 139.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047120.D

Acq: 24 Jul 2025 15:12

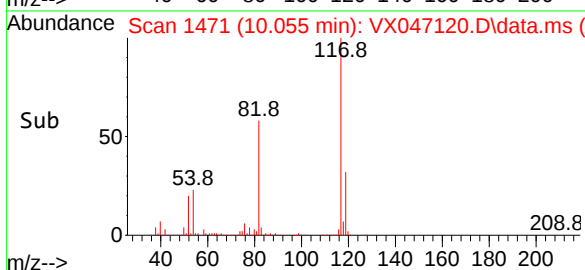
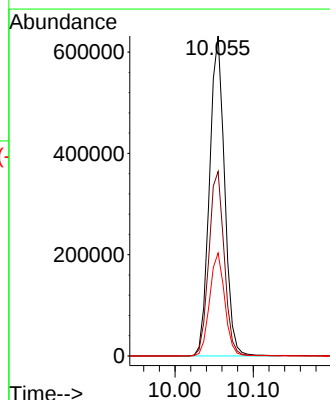
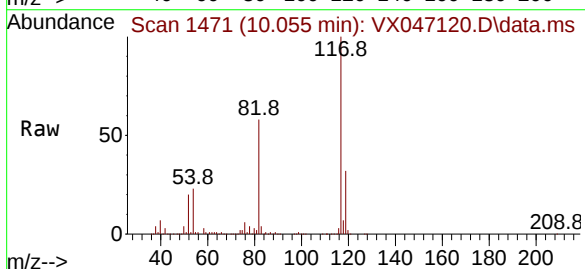
Tgt Ion: 117 Resp: 845132

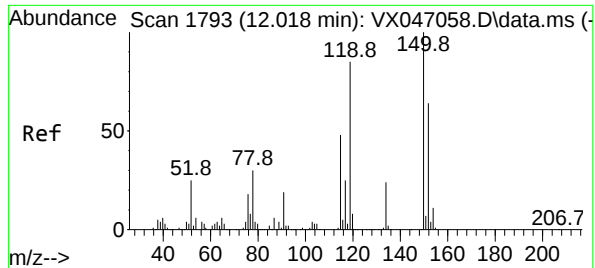
Ion Ratio Lower Upper

117 100

82 57.7 45.4 68.2

119 32.2 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047120.D

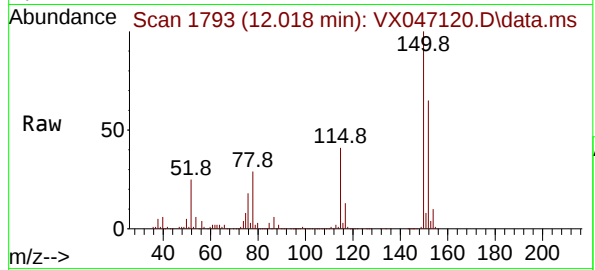
Acq: 24 Jul 2025 15:12

Instrument :

MSVOA_X

ClientSampleId :

CC0627-SFBL



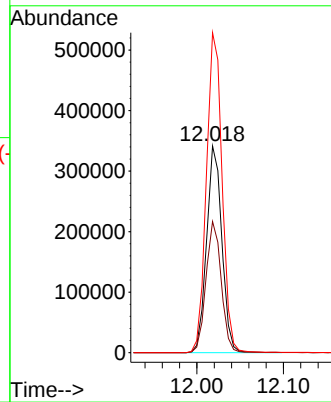
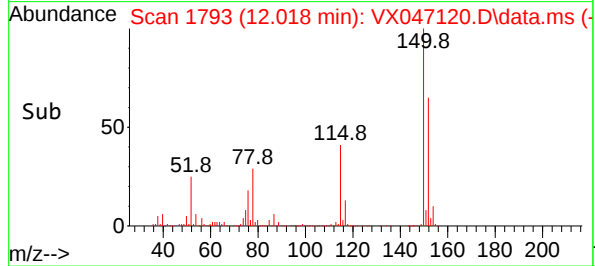
Tgt Ion:152 Resp: 418999

Ion Ratio Lower Upper

152 100

115 63.5 45.6 136.7

150 159.0 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047079.D
 Acq On : 23 Jul 2025 10:45
 Operator : JC/MD
 Sample : VX0723WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jul 24 05:44:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	495715	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	888951	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	838806	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	406646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	306719	49.671	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.340%
35) Dibromofluoromethane	5.391	113	259326	47.247	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.500%
50) Toluene-d8	8.647	98	926506	52.124	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	104.240%
62) 4-Bromofluorobenzene	11.079	95	370567	48.377	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.760%

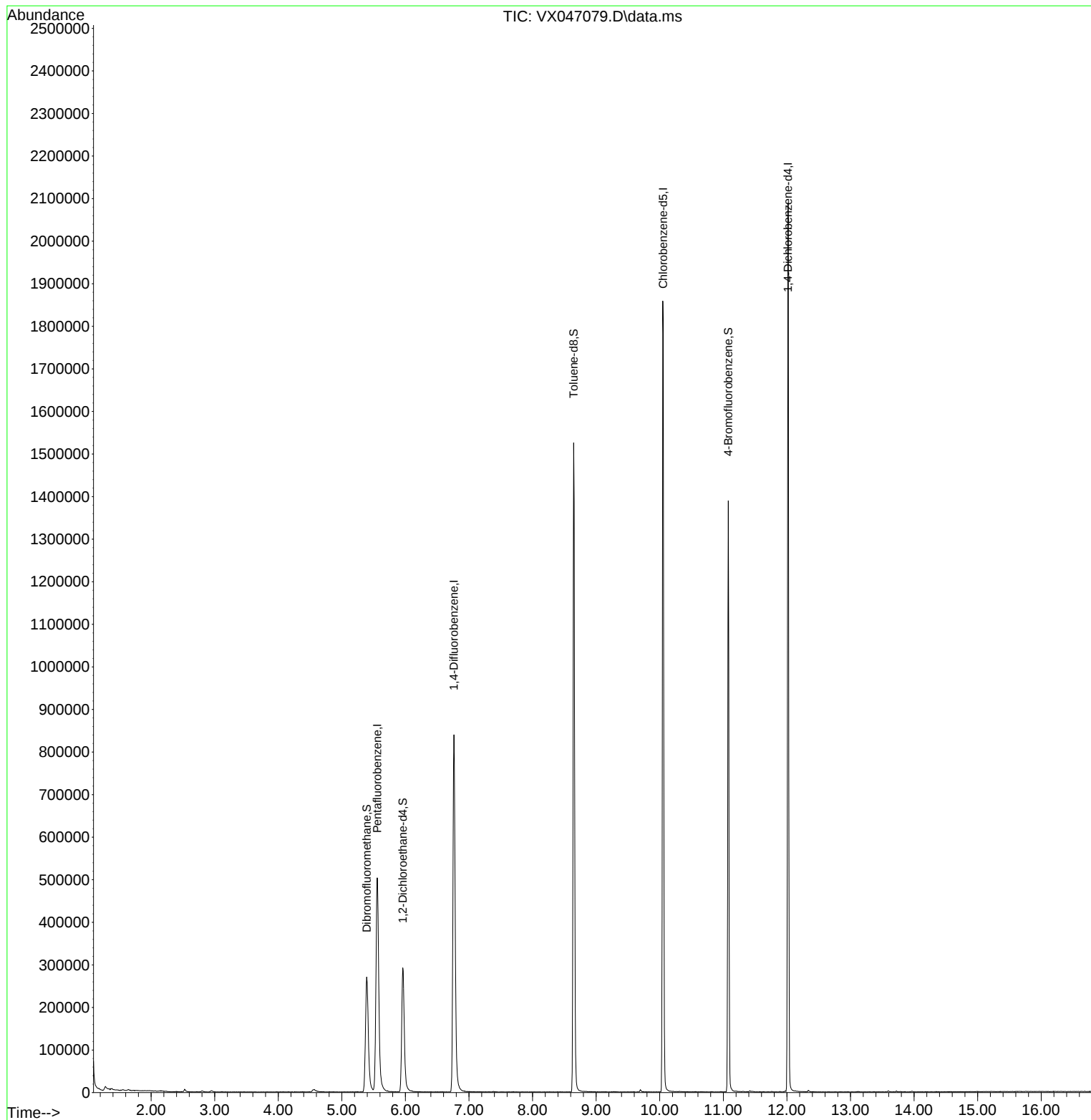
Target Compounds	Qvalue

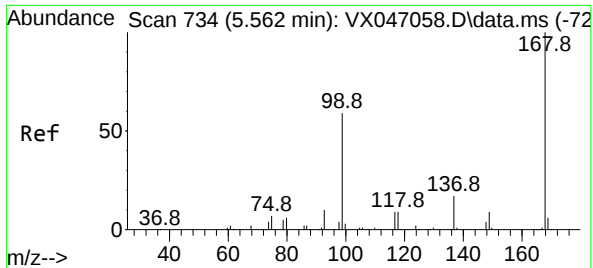
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
Data File : VX047079.D
Acq On : 23 Jul 2025 10:45
Operator : JC/MD
Sample : VX0723WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0723WBL01

Quant Time: Jul 24 05:44:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

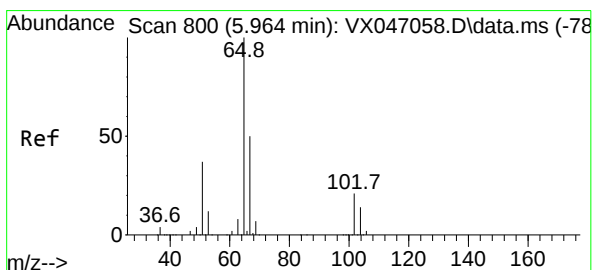
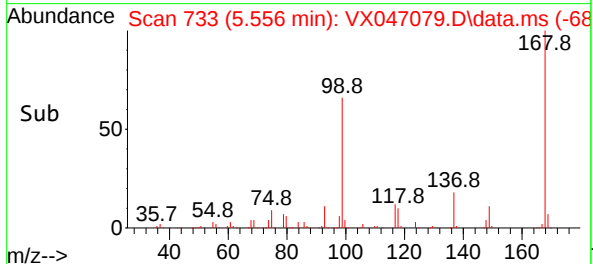
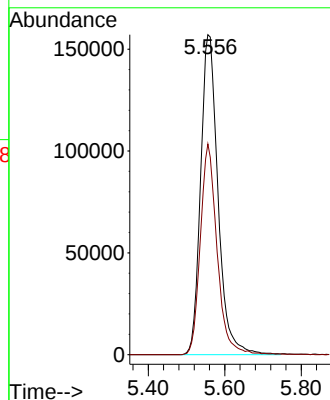
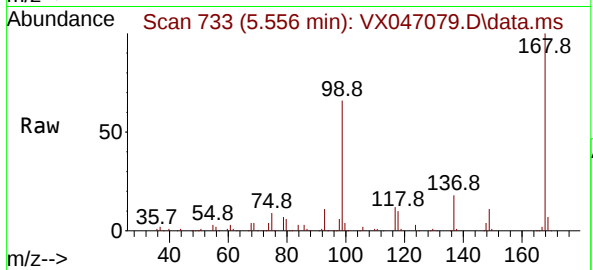




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 713
Delta R.T. -0.006 min
Lab File: VX047079.D
Acq: 23 Jul 2025 10:45

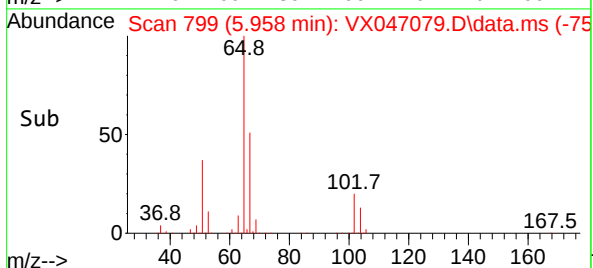
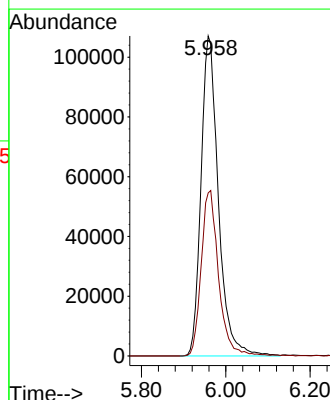
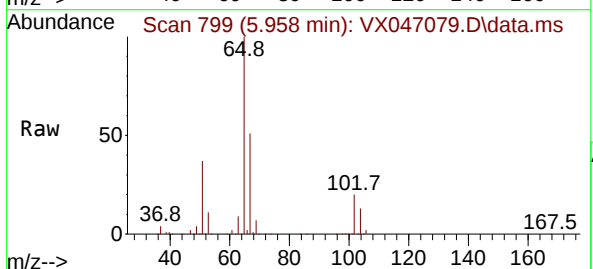
Instrument :
MSVOA_X
ClientSampleId :
VX0723WBL01

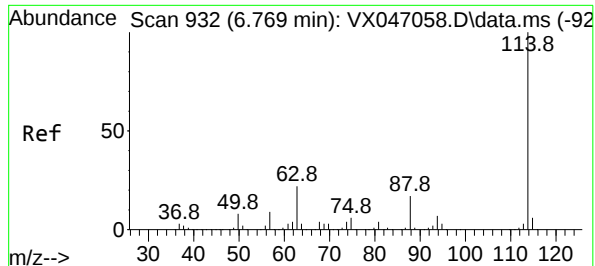
Tgt Ion:168 Resp: 495715
Ion Ratio Lower Upper
168 100
99 65.8 48.0 72.0



#33
1,2-Dichloroethane-d4
Concen: 49.671 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.006 min
Lab File: VX047079.D
Acq: 23 Jul 2025 10:45

Tgt Ion: 65 Resp: 306719
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

Instrument :

MSVOA_X

ClientSampleId :

VX0723WBL01

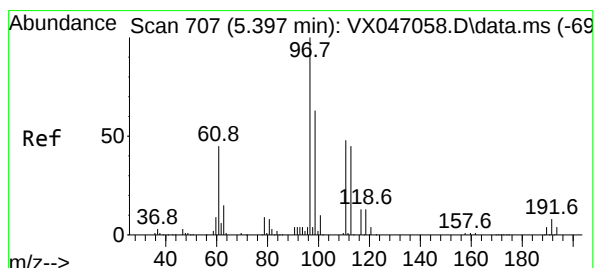
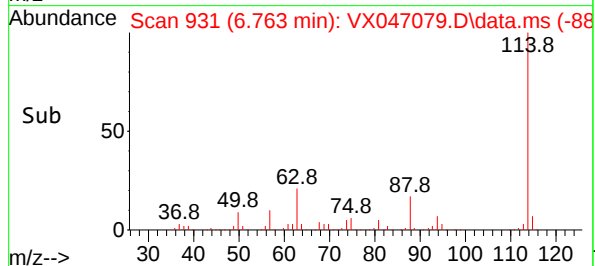
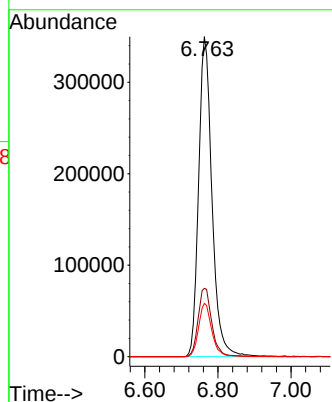
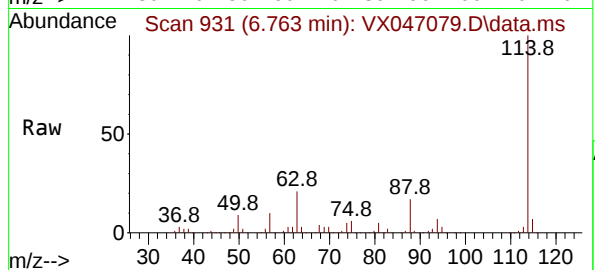
Tgt Ion:114 Resp: 888951

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

88 16.7 0.0 33.8



#35

Dibromofluoromethane

Concen: 47.247 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

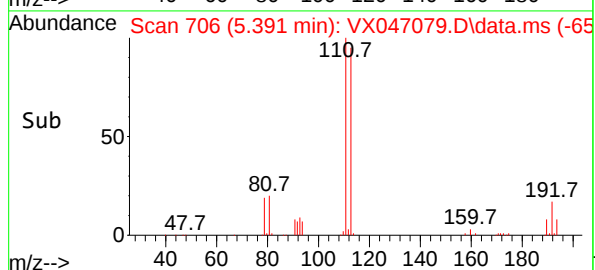
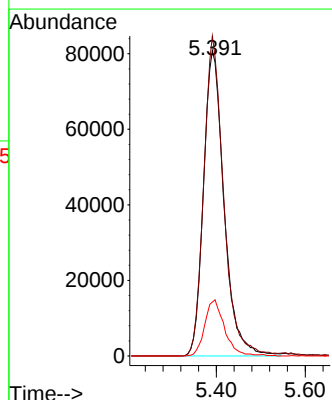
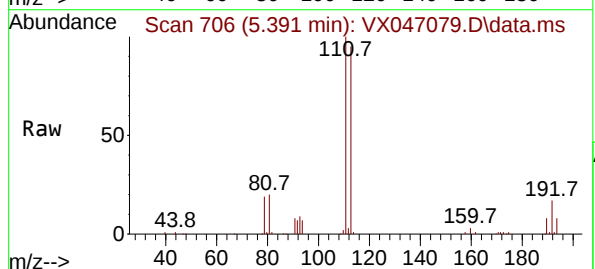
Tgt Ion:113 Resp: 259326

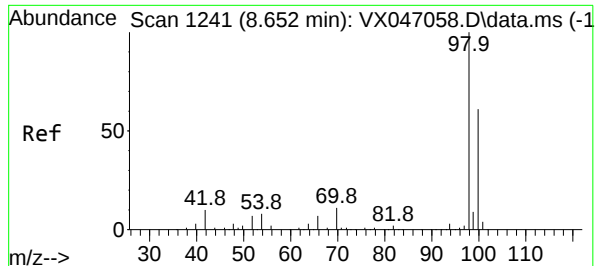
Ion Ratio Lower Upper

113 100

111 101.7 82.6 124.0

192 17.6 14.9 22.3





#50

Toluene-d8

Concen: 52.124 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

Instrument :

MSVOA_X

ClientSampleId :

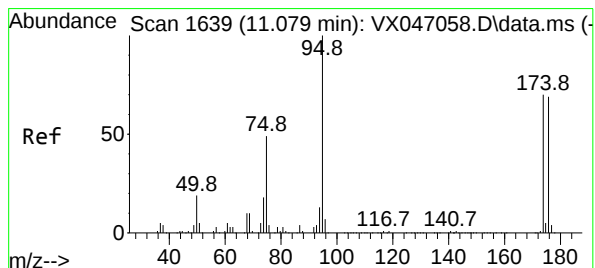
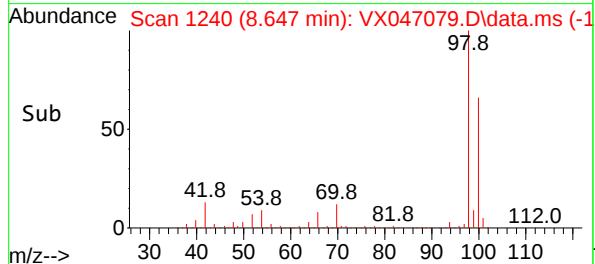
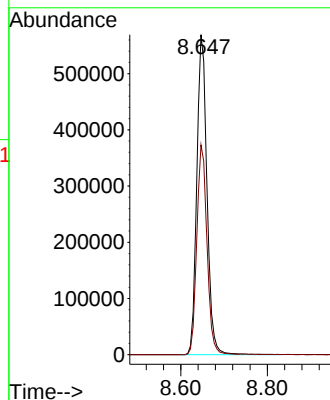
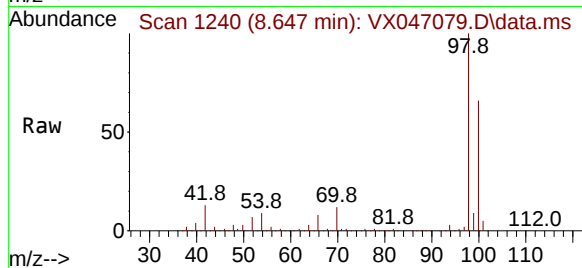
VX0723WBL01

Tgt Ion: 98 Resp: 926506

Ion Ratio Lower Upper

98 100

100 65.7 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 48.377 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

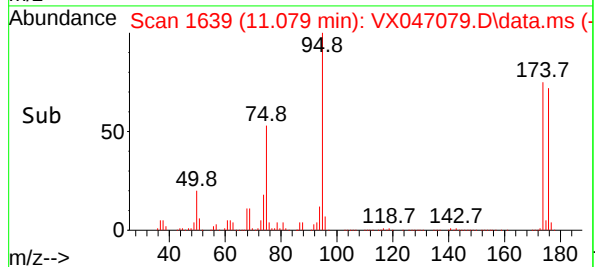
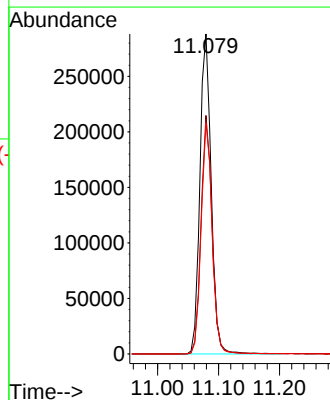
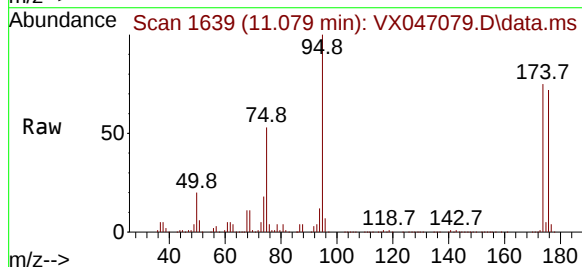
Tgt Ion: 95 Resp: 370567

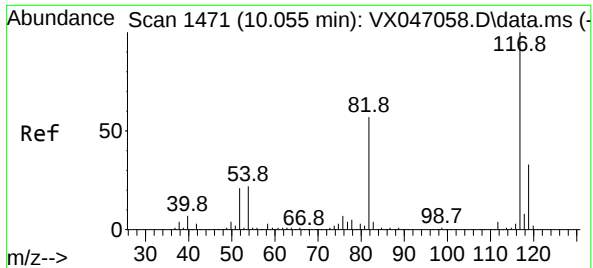
Ion Ratio Lower Upper

95 100

174 72.9 0.0 144.6

176 70.4 0.0 139.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

Instrument :

MSVOA_X

ClientSampleId :

VX0723WBL01

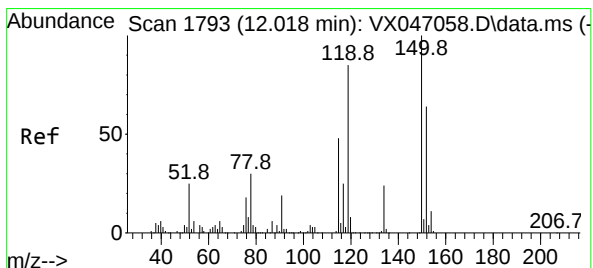
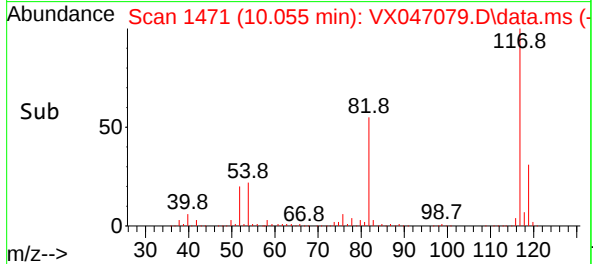
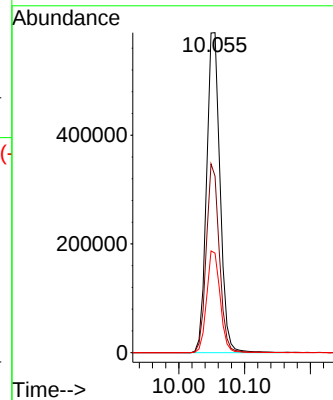
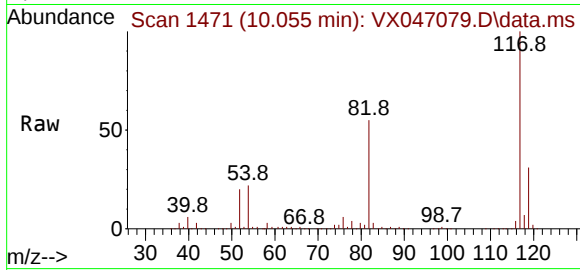
Tgt Ion:117 Resp: 838806

Ion Ratio Lower Upper

117 100

82 55.2 45.4 68.2

119 31.1 26.1 39.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX047079.D

Acq: 23 Jul 2025 10:45

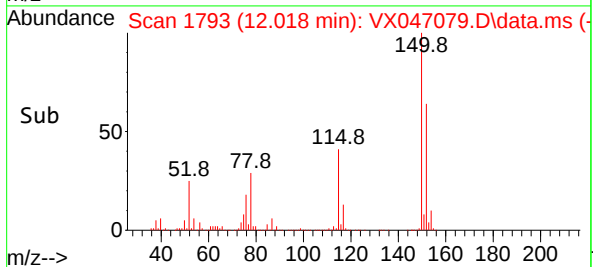
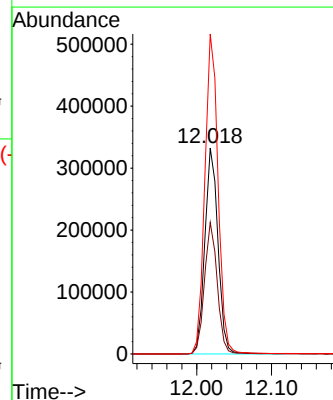
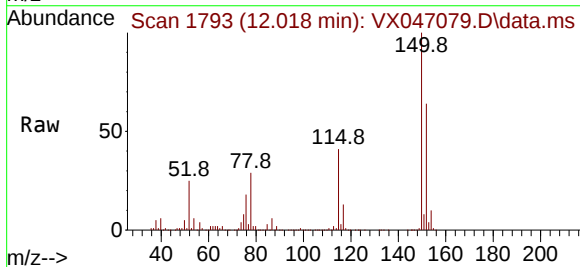
Tgt Ion:152 Resp: 406646

Ion Ratio Lower Upper

152 100

115 62.1 45.6 136.7

150 156.4 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047107.D
 Acq On : 24 Jul 2025 10:34
 Operator : JC/MD
 Sample : VX0724WBL01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0724WBL01

A
B
C
D
E
F
G
H
I
J
K

Quant Time: Jul 25 01:19:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	463916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	839242	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	802389	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	396966	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	303642	52.543	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	105.080%
35) Dibromofluoromethane	5.397	113	251590	48.553	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.100%
50) Toluene-d8	8.653	98	903609	53.847	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	107.700%
62) 4-Bromofluorobenzene	11.079	95	372094	51.453	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	102.900%

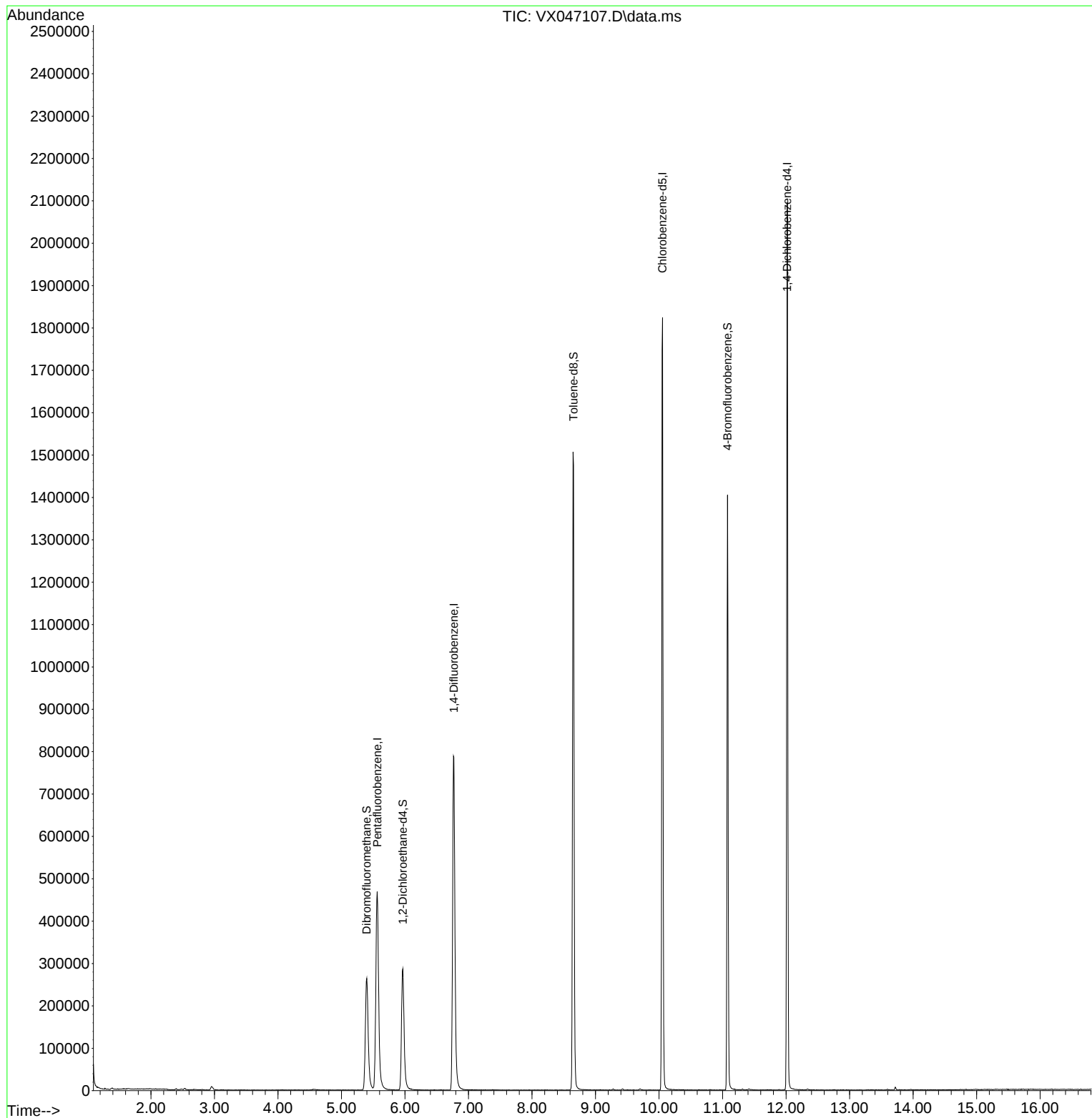
Target Compounds	Qvalue

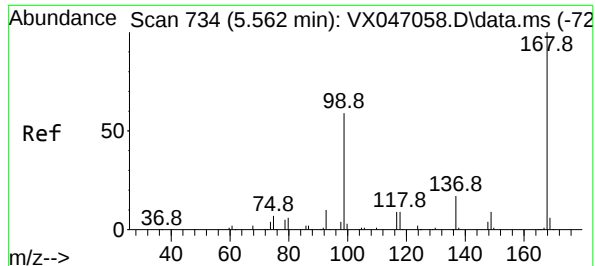
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047107.D
Acq On : 24 Jul 2025 10:34
Operator : JC/MD
Sample : VX0724WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0724WBL01

Quant Time: Jul 25 01:19:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

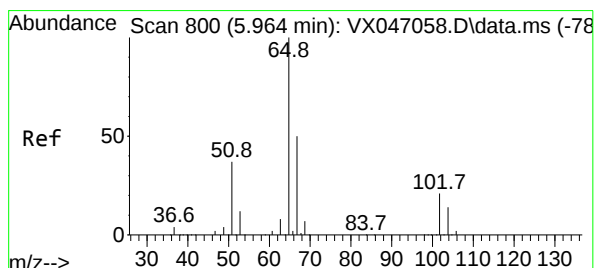
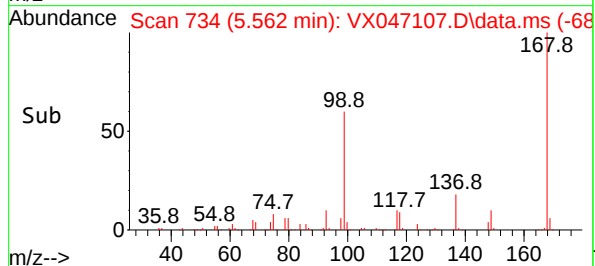
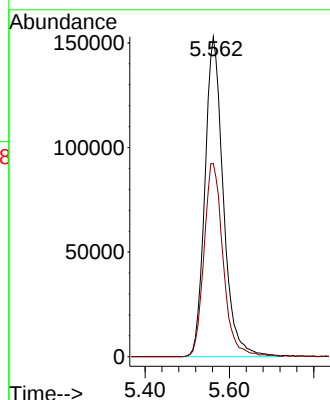
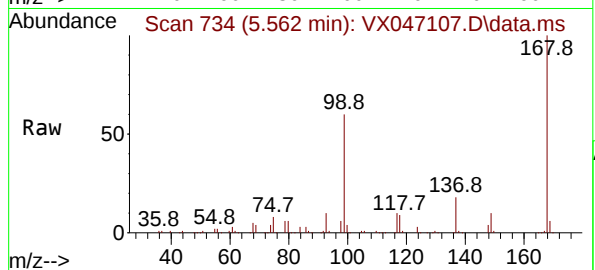




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047107.D
Acq: 24 Jul 2025 10:34

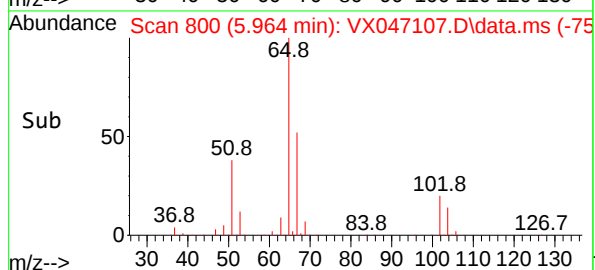
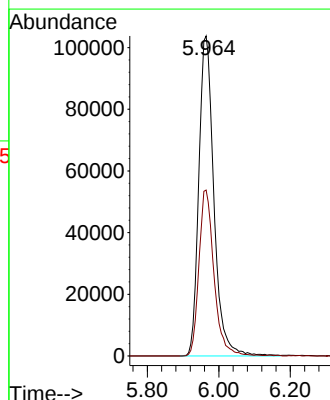
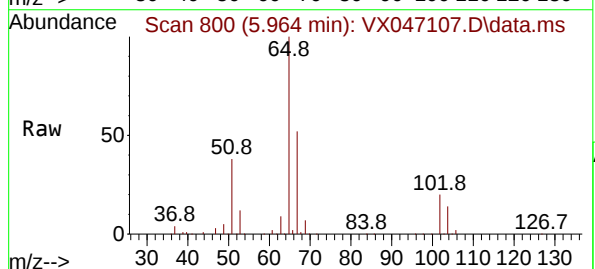
Instrument :
MSVOA_X
ClientSampleId :
VX0724WBL01

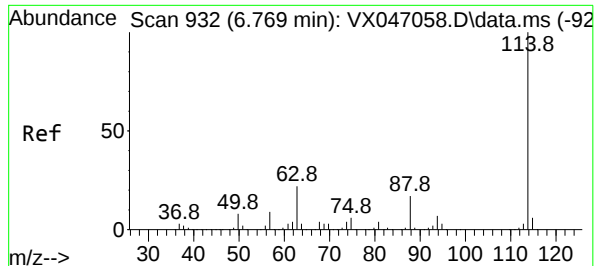
Tgt Ion:168 Resp: 463916
Ion Ratio Lower Upper
168 100
99 60.3 48.0 72.0



#33
1,2-Dichloroethane-d4
Concen: 52.543 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047107.D
Acq: 24 Jul 2025 10:34

Tgt Ion: 65 Resp: 303642
Ion Ratio Lower Upper
65 100
67 51.6 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX047107.D

Acq: 24 Jul 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

VX0724WBL01

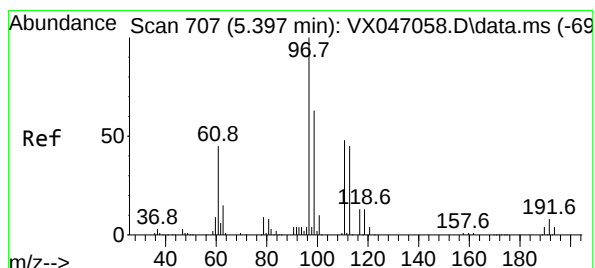
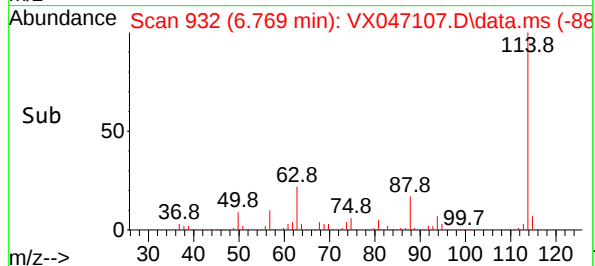
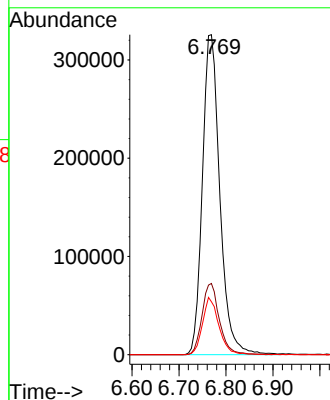
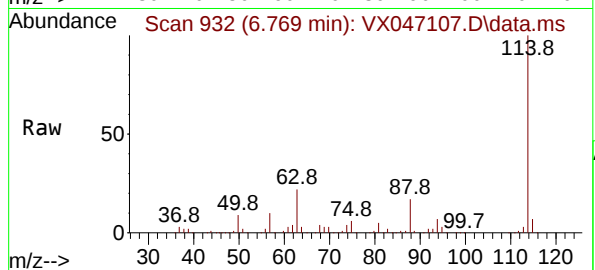
Tgt Ion:114 Resp: 839242

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.2

88 16.6 0.0 33.8



#35

Dibromofluoromethane

Concen: 48.553 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX047107.D

Acq: 24 Jul 2025 10:34

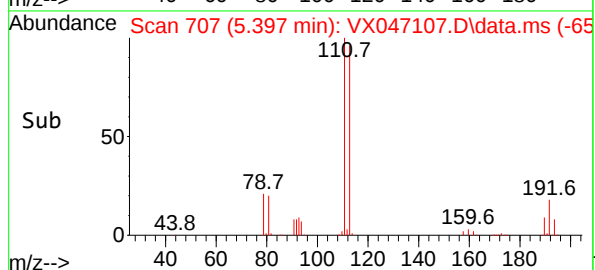
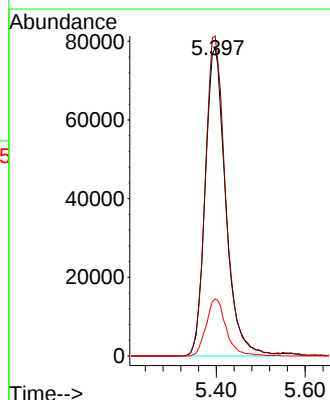
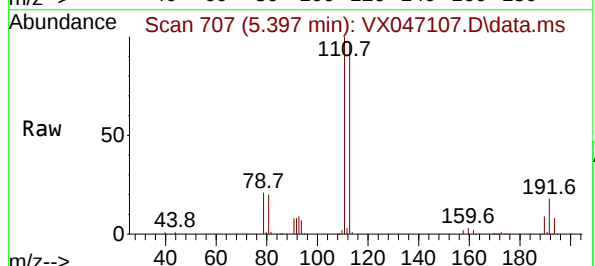
Tgt Ion:113 Resp: 251590

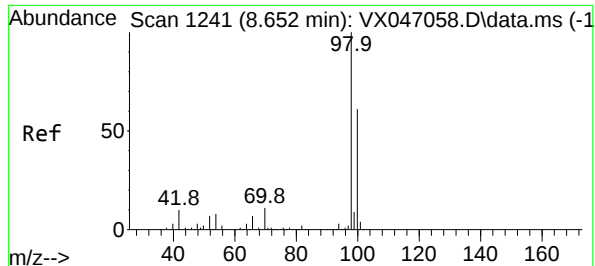
Ion Ratio Lower Upper

113 100

111 102.8 82.6 124.0

192 18.0 14.9 22.3





#50

Toluene-d8

Concen: 53.847 ug/l

RT: 8.653 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047107.D

Acq: 24 Jul 2025 10:34

Instrument :

MSVOA_X

ClientSampleId :

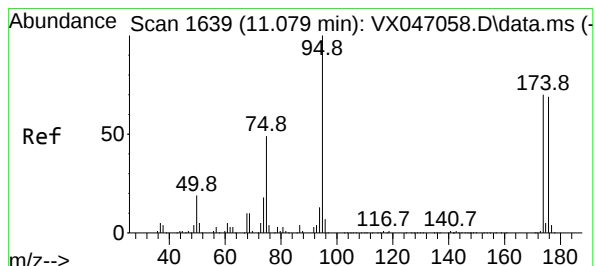
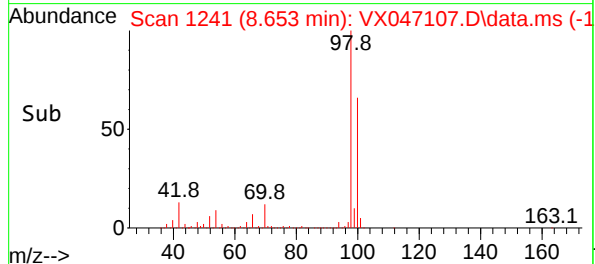
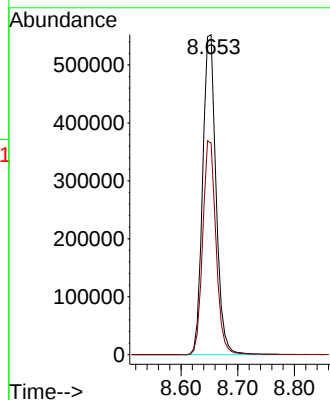
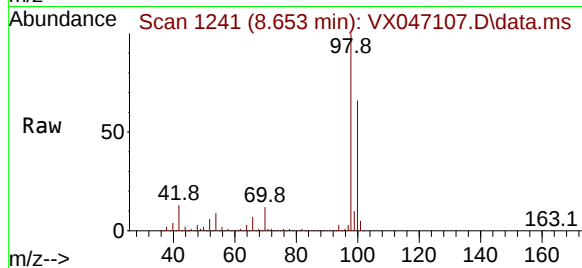
VX0724WBL01

Tgt Ion: 98 Resp: 903609

Ion Ratio Lower Upper

98 100

100 66.4 53.3 79.9



#62

4-Bromofluorobenzene

Concen: 51.453 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX047107.D

Acq: 24 Jul 2025 10:34

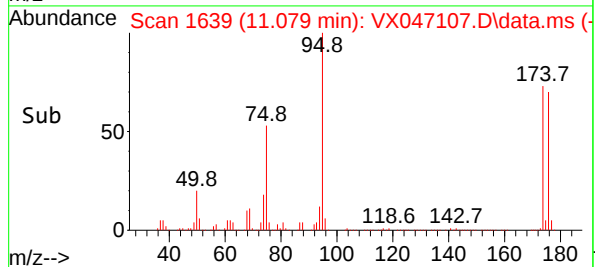
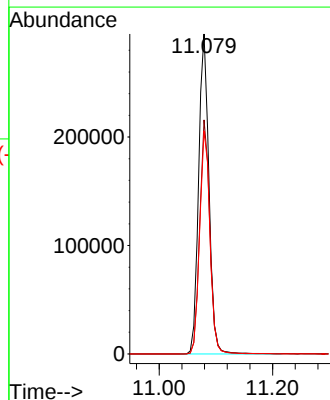
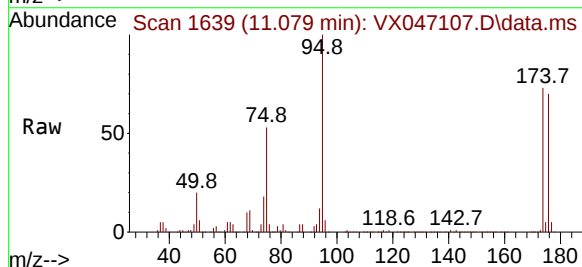
Tgt Ion: 95 Resp: 372094

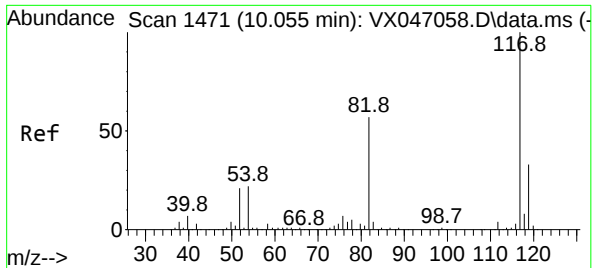
Ion Ratio Lower Upper

95 100

174 71.7 0.0 144.6

176 69.7 0.0 139.6

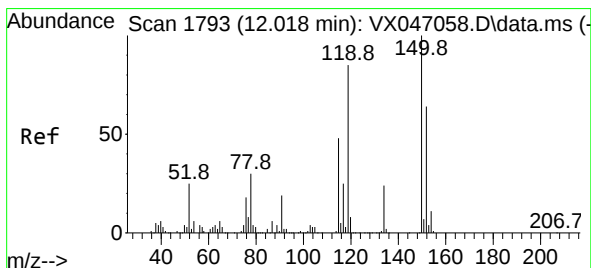
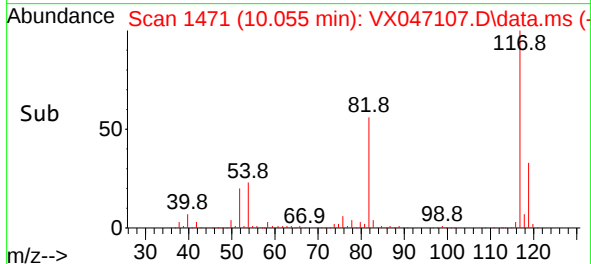
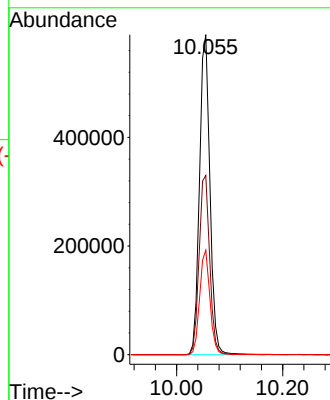
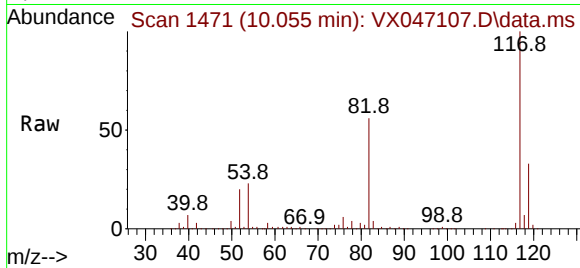




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047107.D
Acq: 24 Jul 2025 10:34

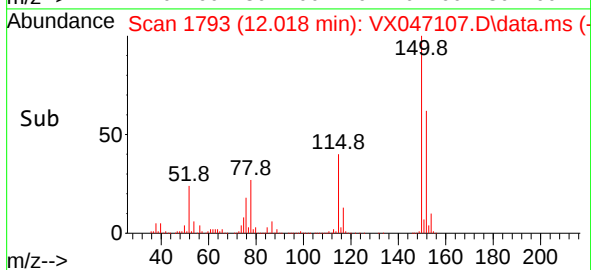
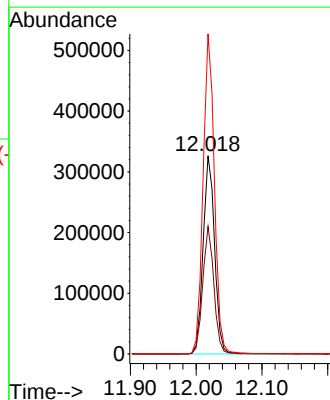
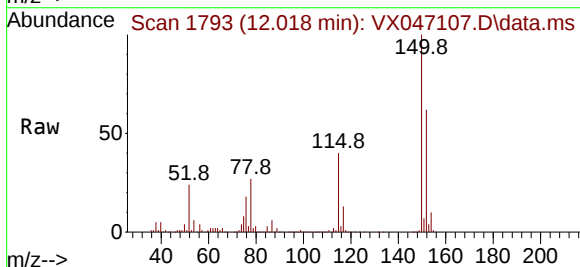
Instrument :
MSVOA_X
ClientSampleId :
VX0724WBL01

Tgt Ion:117 Resp: 802389
Ion Ratio Lower Upper
117 100
82 56.0 45.4 68.2
119 32.6 26.1 39.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047107.D
Acq: 24 Jul 2025 10:34

Tgt Ion:152 Resp: 396966
Ion Ratio Lower Upper
152 100
115 62.5 45.6 136.7
150 158.5 0.0 354.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047080.D
 Acq On : 23 Jul 2025 11:13
 Operator : JC/MD
 Sample : VX0723WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:44:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.556	168	361496	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	612680	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	542704	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	268316	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	220854	49.045	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	98.080%
35) Dibromofluoromethane	5.391	113	186492	49.299	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.600%
50) Toluene-d8	8.647	98	574447	46.891	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.780%
62) 4-Bromofluorobenzene	11.079	95	249887	47.332	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	94.660%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	94947	19.774	ug/l	99
3) Chloromethane	1.307	50	91576	19.281	ug/l	98
4) Vinyl Chloride	1.386	62	97520	19.100	ug/l	97
5) Bromomethane	1.624	94	68168	24.579	ug/l	99
6) Chloroethane	1.703	64	59366	17.704	ug/l	97
7) Trichlorofluoromethane	1.904	101	144644	18.999	ug/l	95
8) Diethyl Ether	2.148	74	50393	18.773	ug/l	95
9) 1,1,2-Trichlorotrifluo...	2.343	101	85292	18.595	ug/l	99
10) Methyl Iodide	2.465	142	69430	14.852	ug/l	98
11) Tert butyl alcohol	2.959	59	43656	75.763	ug/l	98
12) 1,1-Dichloroethene	2.337	96	84756	18.656	ug/l	98
13) Acrolein	2.245	56	121795	125.614	ug/l	99
14) Allyl chloride	2.678	41	154616	18.828	ug/l	99
15) Acrylonitrile	3.068	53	200778	93.487	ug/l	100
16) Acetone	2.386	43	155438	86.165	ug/l	99
17) Carbon Disulfide	2.526	76	241882	18.404	ug/l	98
18) Methyl Acetate	2.709	43	85906	17.920	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	252371	18.253	ug/l	99
20) Methylene Chloride	2.800	84	92754	18.690	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	87280	18.774	ug/l	99
22) Diisopropyl ether	3.770	45	301292	19.083	ug/l	90
23) Vinyl Acetate	3.727	43	1195327	94.392	ug/l	100
24) 1,1-Dichloroethane	3.623	63	164981	18.791	ug/l	99
25) 2-Butanone	4.562	43	233644	88.949	ug/l	99
26) 2,2-Dichloropropane	4.483	77	122724	18.058	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	102624	18.642	ug/l	99
28) Bromochloromethane	4.903	49	75175	18.612	ug/l	99
29) Tetrahydrofuran	5.007	42	153658	90.665	ug/l	99
30) Chloroform	5.099	83	168849	18.893	ug/l	98
31) Cyclohexane	5.483	56	155147	18.430	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	142655	18.377	ug/l	99
36) 1,1-Dichloropropene	5.696	75	118974	18.451	ug/l	98
37) Ethyl Acetate	4.721	43	98742	16.618	ug/l	100
38) Carbon Tetrachloride	5.684	117	124370	18.071	ug/l	97
39) Methylcyclohexane	7.385	83	144529	17.952	ug/l	96
40) Benzene	6.043	78	349201	18.713	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047080.D
 Acq On : 23 Jul 2025 11:13
 Operator : JC/MD
 Sample : VX0723WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:44:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	57055	18.365	ug/l	95
42) 1,2-Dichloroethane	6.092	62	126004	19.168	ug/l	97
43) Isopropyl Acetate	6.342	43	168417	18.182	ug/l	99
44) Trichloroethene	7.129	130	86185	18.010	ug/l	98
45) 1,2-Dichloropropane	7.433	63	87148	18.646	ug/l	95
46) Dibromomethane	7.586	93	62619	19.105	ug/l	98
47) Bromodichloromethane	7.824	83	130318	18.680	ug/l	98
48) Methyl methacrylate	7.696	41	86555	17.152	ug/l	100
49) 1,4-Dioxane	7.659	88	20462	356.518	ug/l	99
51) 4-Methyl-2-Pentanone	8.567	43	509611	92.558	ug/l	98
52) Toluene	8.720	92	214294	18.676	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	119927	18.204	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	137184	19.026	ug/l	97
55) 1,1,2-Trichloroethane	9.153	97	79236	18.413	ug/l	98
56) Ethyl methacrylate	9.116	69	117380	18.425	ug/l	98
57) 1,3-Dichloropropane	9.305	76	141099	18.867	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	313215	88.354	ug/l	100
59) 2-Hexanone	9.427	43	341522	93.886	ug/l	99
60) Dibromochloromethane	9.518	129	94020	18.629	ug/l	100
61) 1,2-Dibromoethane	9.610	107	83100	18.468	ug/l	99
64) Tetrachloroethene	9.275	164	70954	18.136	ug/l	96
65) Chlorobenzene	10.079	112	238955	18.795	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	79720	18.624	ug/l	98
67) Ethyl Benzene	10.189	91	417004	18.759	ug/l	98
68) m/p-Xylenes	10.299	106	313480	37.684	ug/l	99
69) o-Xylene	10.640	106	148377	18.749	ug/l	98
70) Styrene	10.652	104	262938	19.376	ug/l	98
71) Bromoform	10.799	173	58337	17.941	ug/l #	98
73) Isopropylbenzene	10.957	105	400473	18.918	ug/l	100
74) N-amyl acetate	10.841	43	152907	17.902	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	110786	18.322	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	91613m	18.447	ug/l	
77) Bromobenzene	11.195	156	93470	18.409	ug/l	99
78) n-propylbenzene	11.305	91	477633	18.882	ug/l	100
79) 2-Chlorotoluene	11.360	91	278245	18.401	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	326386	18.663	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	33172	17.208	ug/l	96
82) 4-Chlorotoluene	11.451	91	329898	18.691	ug/l	99
83) tert-Butylbenzene	11.713	119	327705	18.670	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	327517	18.776	ug/l	99
85) sec-Butylbenzene	11.890	105	416843	19.006	ug/l	99
86) p-Isopropyltoluene	12.006	119	344038	18.916	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	180013	18.659	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	181380	18.557	ug/l	98
89) n-Butylbenzene	12.329	91	327775	19.218	ug/l	98
90) Hexachloroethane	12.536	117	59083	18.159	ug/l	99
91) 1,2-Dichlorobenzene	12.329	146	171561	18.607	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20920	18.024	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	113441	18.621	ug/l	99
94) Hexachlorobutadiene	13.719	225	41014	19.796	ug/l	98
95) Naphthalene	13.774	128	328980	18.421	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	105785	18.025	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
Data File : VX047080.D
Acq On : 23 Jul 2025 11:13
Operator : JC/MD
Sample : VX0723WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 24 05:44:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0723WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

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

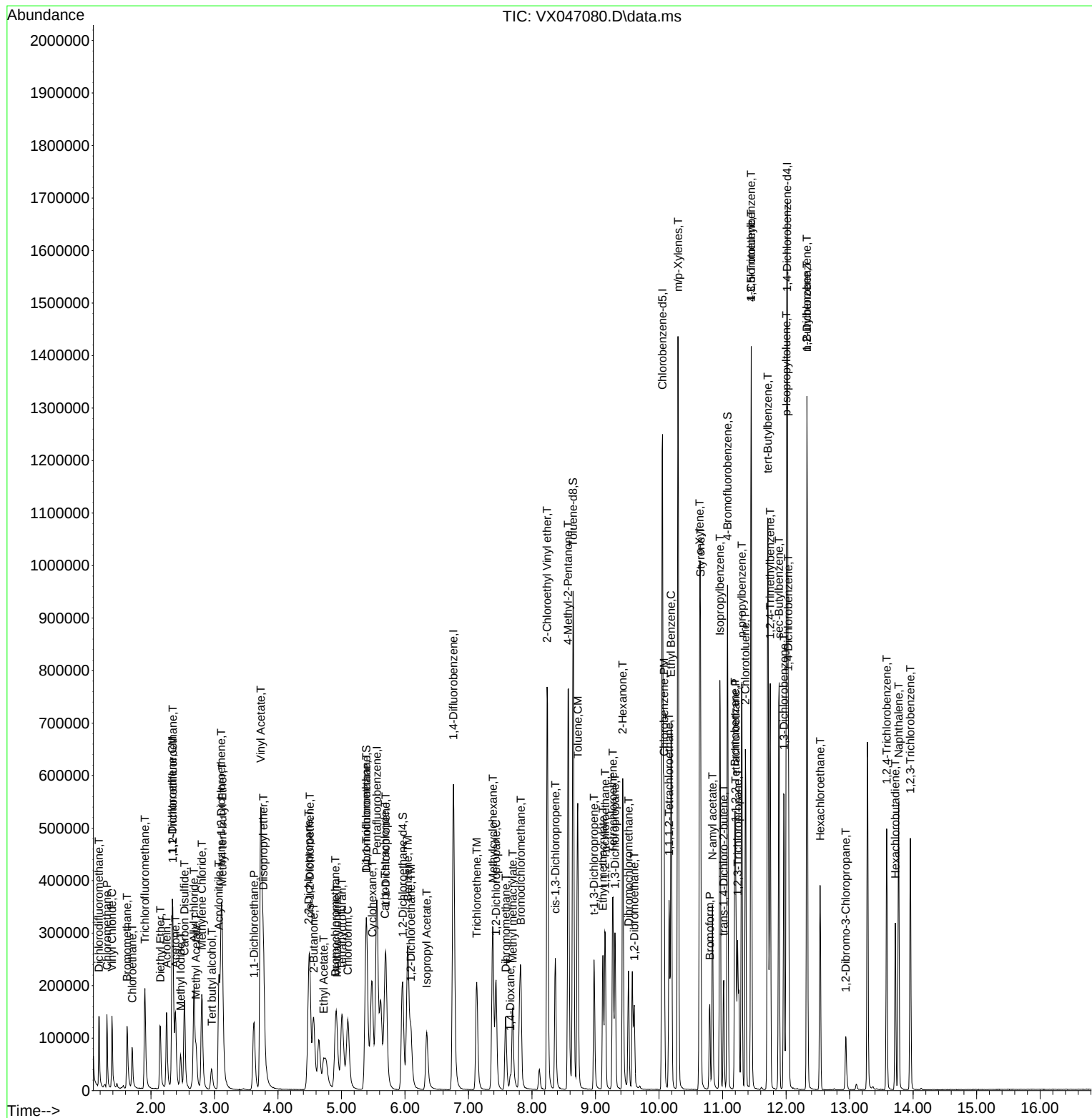
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
Data File : VX047080.D
Acq On : 23 Jul 2025 11:13
Operator : JC/MD
Sample : VX0723WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0723WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:44:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047108.D
 Acq On : 24 Jul 2025 10:55
 Operator : JC/MD
 Sample : VX0724WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0724WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/25/2025
 Supervised By : Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 01:19:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	305867	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	519601	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	466090	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	230557	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	192133	50.427	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 100.860%	
35) Dibromofluoromethane	5.397	113	163756	51.043	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.080%	
50) Toluene-d8	8.647	98	508826	48.974	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 97.940%	
62) 4-Bromofluorobenzene	11.079	95	226596	50.609	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.220%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.185	85	80454	19.803	ug/l	99
3) Chloromethane	1.313	50	74329	18.496	ug/l	98
4) Vinyl Chloride	1.392	62	83578	19.347	ug/l	95
5) Bromomethane	1.630	94	46950	20.007	ug/l	94
6) Chloroethane	1.709	64	49970	17.612	ug/l	96
7) Trichlorofluoromethane	1.904	101	124311	19.298	ug/l	96
8) Diethyl Ether	2.148	74	42310	18.629	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.349	101	74425	19.177	ug/l	98
10) Methyl Iodide	2.471	142	95840	24.231	ug/l	95
11) Tert butyl alcohol	2.959	59	44632	93.779	ug/l #	94
12) 1,1-Dichloroethene	2.337	96	72256	18.798	ug/l	97
13) Acrolein	2.251	56	87354	106.478	ug/l	100
14) Allyl chloride	2.678	41	129635	18.657	ug/l	98
15) Acrylonitrile	3.081	53	168457	92.704	ug/l	99
16) Acetone	2.392	43	143828	94.230	ug/l	99
17) Carbon Disulfide	2.532	76	204121	18.356	ug/l	100
18) Methyl Acetate	2.715	43	74674	18.410	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	219380	18.753	ug/l	99
20) Methylene Chloride	2.806	84	78639	18.727	ug/l	97
21) trans-1,2-Dichloroethene	3.105	96	74571	18.958	ug/l	92
22) Diisopropyl ether	3.769	45	263031	19.690	ug/l	98
23) Vinyl Acetate	3.733	43	1043992	97.436	ug/l	99
24) 1,1-Dichloroethane	3.623	63	141222	19.011	ug/l	98
25) 2-Butanone	4.568	43	199019	89.548	ug/l	99
26) 2,2-Dichloropropane	4.489	77	107467	18.689	ug/l	100
27) cis-1,2-Dichloroethene	4.501	96	86538	18.579	ug/l	97
28) Bromochloromethane	4.910	49	77320	22.624	ug/l	98
29) Tetrahydrofuran	5.025	42	130016	90.668	ug/l	99
30) Chloroform	5.105	83	145330	19.219	ug/l	98
31) Cyclohexane	5.483	56	136429	19.154	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	124875	19.013	ug/l	99
36) 1,1-Dichloropropene	5.702	75	103830	18.986	ug/l	98
37) Ethyl Acetate	4.721	43	91669	18.192	ug/l	97
38) Carbon Tetrachloride	5.690	117	108902	18.658	ug/l	97
39) Methylcyclohexane	7.385	83	128574	18.831	ug/l	99
40) Benzene	6.050	78	300323	18.976	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
 Data File : VX047108.D
 Acq On : 24 Jul 2025 10:55
 Operator : JC/MD
 Sample : VX0724WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0724WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/25/2025
 Supervised By :Mahesh Dadoda 07/25/2025

Quant Time: Jul 25 01:19:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	47401	17.991	ug/l	96
42) 1,2-Dichloroethane	6.098	62	109317	19.609	ug/l	99
43) Isopropyl Acetate	6.348	43	147716	18.803	ug/l	100
44) Trichloroethene	7.129	130	75415	18.583	ug/l	98
45) 1,2-Dichloropropane	7.433	63	75626	19.079	ug/l	98
46) Dibromomethane	7.586	93	53156	19.123	ug/l	99
47) Bromodichloromethane	7.824	83	114063	19.279	ug/l	99
48) Methyl methacrylate	7.696	41	76293	17.827	ug/l	99
49) 1,4-Dioxane	7.683	88	17148	352.298	ug/l	97
51) 4-Methyl-2-Pentanone	8.573	43	443017	94.877	ug/l	99
52) Toluene	8.720	92	188234	19.343	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	105314	18.850	ug/l	99
54) cis-1,3-Dichloropropene	8.372	75	116557	19.061	ug/l	99
55) 1,1,2-Trichloroethane	9.153	97	68674	18.818	ug/l	98
56) Ethyl methacrylate	9.116	69	103289	19.118	ug/l	99
57) 1,3-Dichloropropane	9.311	76	121377	19.137	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.244	63	256012	85.155	ug/l	100
59) 2-Hexanone	9.433	43	299956	97.231	ug/l	100
60) Dibromochloromethane	9.518	129	82408	19.253	ug/l	99
61) 1,2-Dibromoethane	9.610	107	69828	18.299	ug/l	97
64) Tetrachloroethene	9.275	164	60989	18.152	ug/l	96
65) Chlorobenzene	10.079	112	205071	18.781	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	70137	19.079	ug/l	98
67) Ethyl Benzene	10.195	91	362428	18.984	ug/l	100
68) m/p-Xylenes	10.299	106	268945	37.644	ug/l	98
69) o-Xylene	10.640	106	130072	19.138	ug/l	100
70) Styrene	10.652	104	224215	19.239	ug/l	99
71) Bromoform	10.799	173	53141	19.030	ug/l #	96
73) Isopropylbenzene	10.963	105	346531	19.051	ug/l	100
74) N-amyl acetate	10.841	43	132216	18.015	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	99342	19.120	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	77830m	18.238	ug/l	
77) Bromobenzene	11.195	156	82142	18.828	ug/l	99
78) n-propylbenzene	11.305	91	420847	19.362	ug/l	100
79) 2-Chlorotoluene	11.360	91	247908	19.080	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	287487	19.131	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	21060	12.714	ug/l	96
82) 4-Chlorotoluene	11.451	91	293054	19.323	ug/l	99
83) tert-Butylbenzene	11.713	119	288095	19.101	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	289908	19.342	ug/l	99
85) sec-Butylbenzene	11.890	105	359478	19.075	ug/l	99
86) p-Isopropyltoluene	12.006	119	302313	19.344	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	155793	18.794	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	158647	18.890	ug/l	98
89) n-Butylbenzene	12.329	91	286664	19.560	ug/l	98
90) Hexachloroethane	12.536	117	52011	18.603	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	145384	18.350	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.939	75	18082	18.130	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	99259	18.962	ug/l	98
94) Hexachlorobutadiene	13.725	225	35400	19.885	ug/l	97
95) Naphthalene	13.774	128	286781	18.688	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	95531	18.943	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072425\
Data File : VX047108.D
Acq On : 24 Jul 2025 10:55
Operator : JC/MD
Sample : VX0724WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jul 25 01:19:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0724WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025

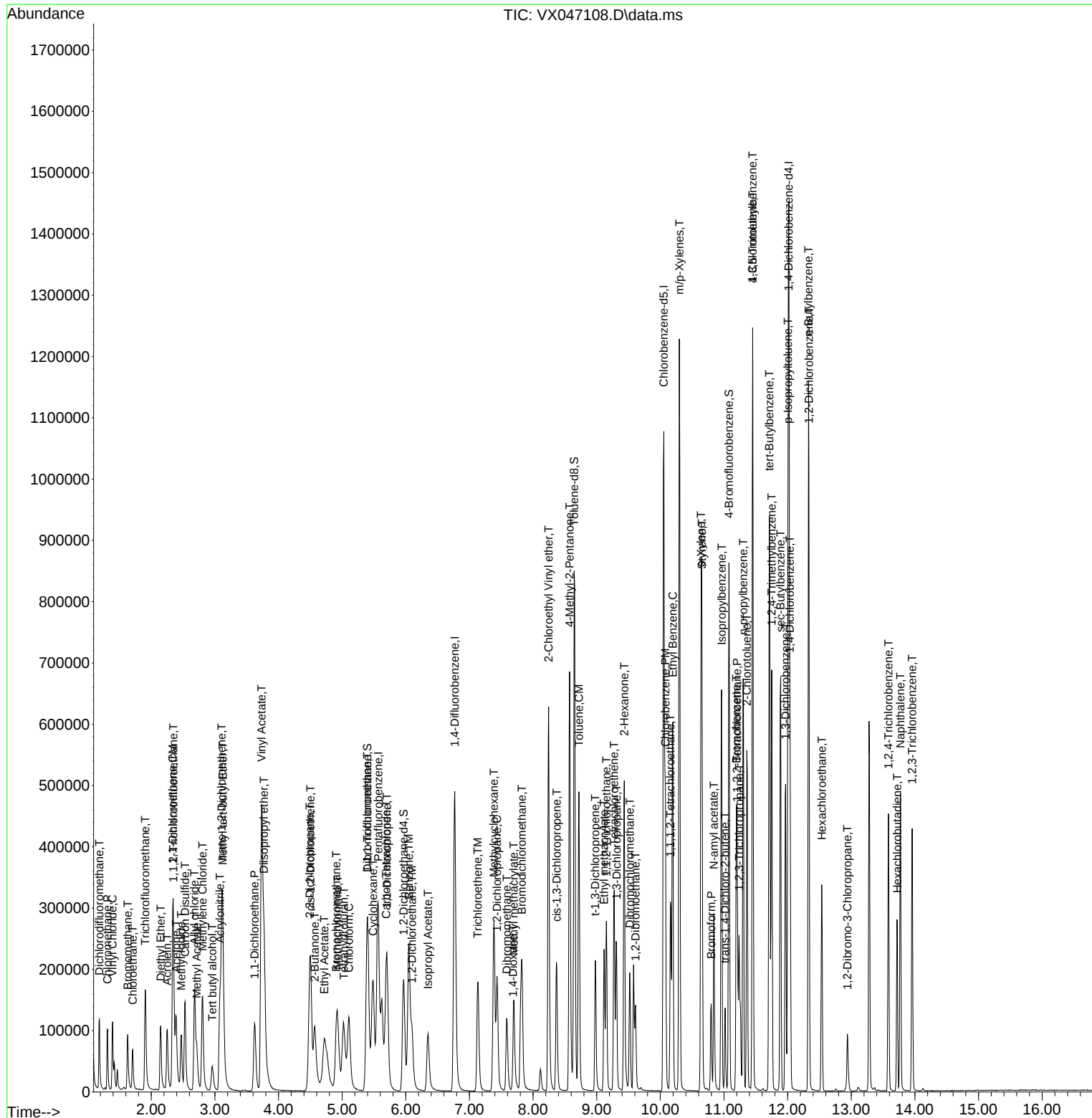
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0724WBS01

Manual Integrations

Reviewed By :John Carlone 07/25/2025
Supervised By :Mahesh Dadoda 07/25/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047088.D
 Acq On : 23 Jul 2025 14:07
 Operator : JC/MD
 Sample : VX0723WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:50:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	310959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	528421	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	477316	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	242466	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.964	65	184722	47.688	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.380%
35) Dibromofluoromethane	5.397	113	158281	48.513	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.020%
50) Toluene-d8	8.653	98	489612	46.338	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	92.680%
62) 4-Bromofluorobenzene	11.079	95	226475	49.738	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	99.480%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.184	85	79075	19.145	ug/l	98
3) Chloromethane	1.306	50	74395	18.209	ug/l	98
4) Vinyl Chloride	1.386	62	81467	18.549	ug/l	99
5) Bromomethane	1.623	94	50847	21.313	ug/l	95
6) Chloroethane	1.703	64	49608	17.198	ug/l	100
7) Trichlorofluoromethane	1.904	101	120221	18.357	ug/l	97
8) Diethyl Ether	2.148	74	41985	18.183	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.349	101	72749	18.438	ug/l	99
10) Methyl Iodide	2.471	142	59787	14.868	ug/l	97
11) Tert butyl alcohol	2.958	59	39731	80.779	ug/l	99
12) 1,1-Dichloroethene	2.337	96	71271	18.238	ug/l	99
13) Acrolein	2.251	56	91416	109.605	ug/l	98
14) Allyl chloride	2.678	41	127084	17.990	ug/l	99
15) Acrylonitrile	3.074	53	178809	96.789	ug/l	98
16) Acetone	2.385	43	141628	91.269	ug/l	98
17) Carbon Disulfide	2.526	76	198337	17.544	ug/l	98
18) Methyl Acetate	2.715	43	80702	19.570	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	219572	18.462	ug/l	98
20) Methylene Chloride	2.806	84	77441	18.140	ug/l	98
21) trans-1,2-Dichloroethene	3.105	96	72646	18.166	ug/l	94
22) Diisopropyl ether	3.769	45	257385	18.951	ug/l	94
23) Vinyl Acetate	3.733	43	1039866	95.461	ug/l	99
24) 1,1-Dichloroethane	3.623	63	137126	18.157	ug/l	98
25) 2-Butanone	4.568	43	214937	95.126	ug/l	100
26) 2,2-Dichloropropane	4.489	77	99800	17.071	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	85243	18.001	ug/l	98
28) Bromochloromethane	4.915	49	61022	17.563	ug/l	100
29) Tetrahydrofuran	5.013	42	141584	97.118	ug/l	98
30) Chloroform	5.110	83	141717	18.434	ug/l	93
31) Cyclohexane	5.482	56	130935	18.082	ug/l	97
32) 1,1,1-Trichloroethane	5.397	97	122918	18.408	ug/l	100
36) 1,1-Dichloropropene	5.708	75	98516	17.714	ug/l	100
37) Ethyl Acetate	4.726	43	90681	17.695	ug/l	99
38) Carbon Tetrachloride	5.690	117	106286	17.906	ug/l	100
39) Methylcyclohexane	7.384	83	125129	18.020	ug/l	98
40) Benzene	6.049	78	298325	18.535	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
 Data File : VX047088.D
 Acq On : 23 Jul 2025 14:07
 Operator : JC/MD
 Sample : VX0723WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0723WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:50:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	53436	19.943	ug/l	96
42) 1,2-Dichloroethane	6.098	62	106541	18.792	ug/l	98
43) Isopropyl Acetate	6.348	43	152735	19.118	ug/l	99
44) Trichloroethene	7.135	130	74000	17.930	ug/l	100
45) 1,2-Dichloropropane	7.433	63	73572	18.251	ug/l	93
46) Dibromomethane	7.586	93	52778	18.670	ug/l	98
47) Bromodichloromethane	7.823	83	110468	18.360	ug/l	98
48) Methyl methacrylate	7.695	41	78142	17.954	ug/l	100
49) 1,4-Dioxane	7.665	88	19354	390.983	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	463297	97.564	ug/l	99
52) Toluene	8.720	92	190604	19.260	ug/l	98
53) t-1,3-Dichloropropene	8.982	75	101553	17.873	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	114225	18.368	ug/l	98
55) 1,1,2-Trichloroethane	9.152	97	70374	18.962	ug/l	98
56) Ethyl methacrylate	9.116	69	106391	19.363	ug/l	98
57) 1,3-Dichloropropane	9.311	76	120987	18.757	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	273140	89.335	ug/l	99
59) 2-Hexanone	9.433	43	319474	101.829	ug/l	99
60) Dibromochloromethane	9.518	129	80178	18.420	ug/l	99
61) 1,2-Dibromoethane	9.610	107	70731	18.226	ug/l	98
64) Tetrachloroethene	9.274	164	62241	18.088	ug/l	95
65) Chlorobenzene	10.079	112	205725	18.398	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.164	131	67878	18.030	ug/l	99
67) Ethyl Benzene	10.195	91	363476	18.591	ug/l	99
68) m/p-Xylenes	10.299	106	272149	37.197	ug/l	99
69) o-Xylene	10.640	106	131522	18.896	ug/l	98
70) Styrene	10.652	104	223553	18.731	ug/l	99
71) Bromoform	10.798	173	51340	17.952	ug/l #	99
73) Isopropylbenzene	10.963	105	345570	18.065	ug/l	99
74) N-amyl acetate	10.841	43	140993	18.267	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	100787	18.445	ug/l	100
76) 1,2,3-Trichloropropane	11.237	75	80518m	17.941	ug/l	
77) Bromobenzene	11.195	156	81431	17.748	ug/l	100
78) n-propylbenzene	11.304	91	412892	18.063	ug/l	100
79) 2-Chlorotoluene	11.359	91	246110	18.011	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	283760	17.956	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	28787	16.526	ug/l	94
82) 4-Chlorotoluene	11.451	91	291226	18.259	ug/l	99
83) tert-Butylbenzene	11.713	119	283192	17.854	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	291328	18.482	ug/l	100
85) sec-Butylbenzene	11.890	105	358758	18.102	ug/l	100
86) p-Isopropyltoluene	12.006	119	297676	18.112	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	156420	17.942	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	158970	17.998	ug/l	99
89) n-Butylbenzene	12.329	91	282987	18.360	ug/l	98
90) Hexachloroethane	12.536	117	50490	17.172	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	148759	17.854	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	19193	18.299	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	97662	17.740	ug/l	98
94) Hexachlorobutadiene	13.725	225	35054	18.723	ug/l	97
95) Naphthalene	13.774	128	300747	18.635	ug/l	100
96) 1,2,3-Trichlorobenzene	13.956	180	95863	18.076	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072325\
Data File : VX047088.D
Acq On : 23 Jul 2025 14:07
Operator : JC/MD
Sample : VX0723WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jul 24 05:50:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 22 03:59:51 2025
Response via : Initial Calibration

Instrument :
MSVOA_X
ClientSampleId :
VX0723WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

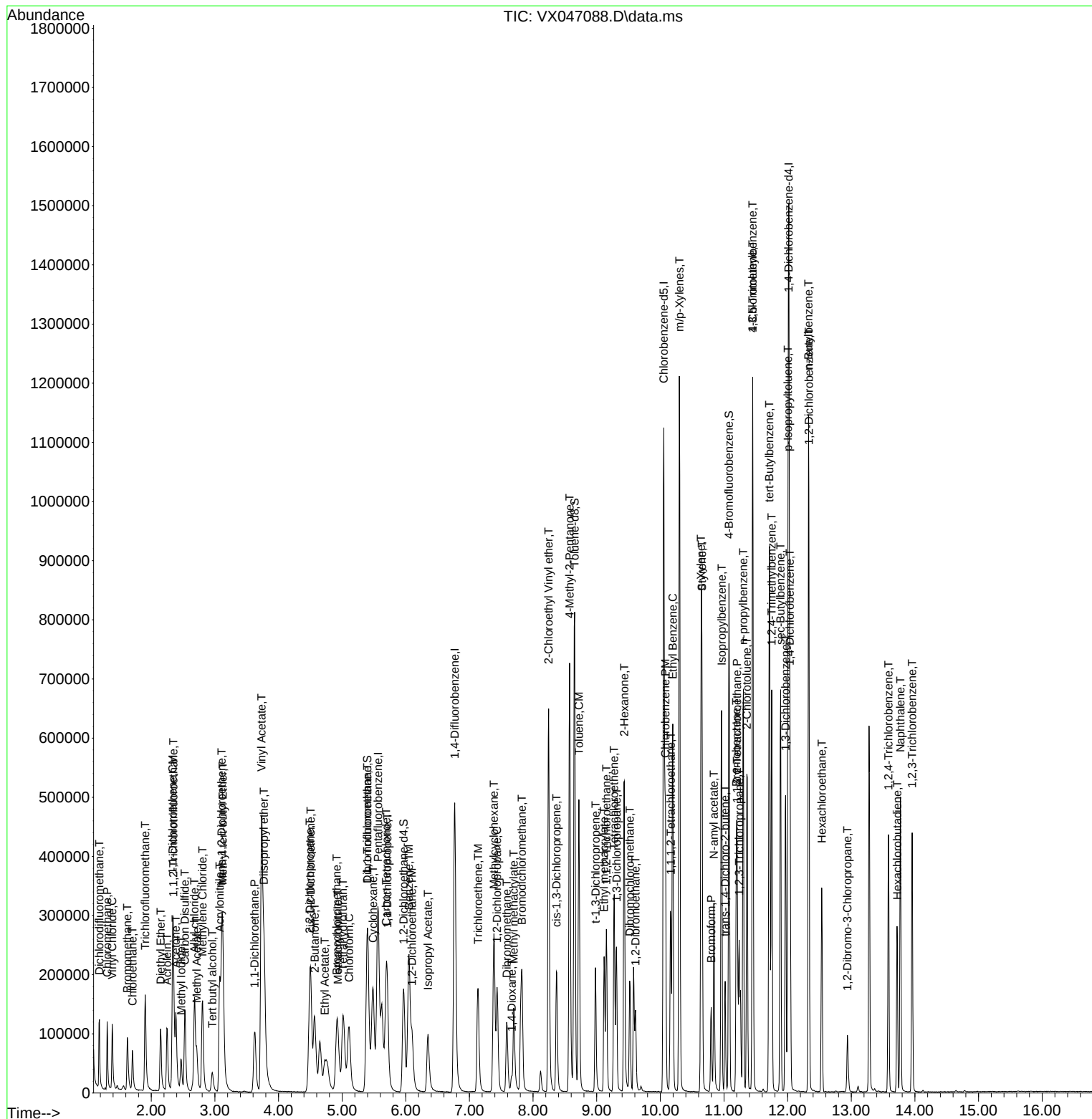
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0723WBSD01

Manual Integrations APPROVED

Reviewed By :John Carlone 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025



Manual Integration Report

Sequence:	VX072125	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX047055.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	1,4-Dichlorobenzene	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	1,4-Dioxane	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	Ethyl Acetate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	Methyl methacrylate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC001	VX047055.D	N-amyl acetate	JOHN	7/22/2025 8:50:05 AM	MMDadoda	7/22/2025 1:41:01 PM	Peak Integrated by Software
VSTDICC005	VX047056.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:10 AM	MMDadoda	7/22/2025 1:41:02 PM	Peak Integrated by Software
VSTDICC005	VX047056.D	Ethyl Acetate	JOHN	7/22/2025 8:50:10 AM	MMDadoda	7/22/2025 1:41:02 PM	Peak Integrated by Software
VSTDICC020	VX047057.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:18 AM	MMDadoda	7/22/2025 1:41:03 PM	Peak Integrated by Software
VSTDICCC050	VX047058.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:23 AM	MMDadoda	7/22/2025 1:41:05 PM	Peak Integrated by Software
VSTDICC100	VX047059.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:28 AM	MMDadoda	7/22/2025 1:41:08 PM	Peak Integrated by Software
VSTDICC150	VX047060.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:32 AM	MMDadoda	7/22/2025 1:41:09 PM	Peak Integrated by Software
VSTDICV050	VX047062.D	1,2,3-Trichloropropane	JOHN	7/22/2025 8:50:40 AM	MMDadoda	7/22/2025 1:41:11 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	VX072125	Instrument	MSVOA_x
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICV050	VX047062.D	1,4-Dioxane	JOHN	7/22/2025 8:50:40 AM	MMDadoda	7/22/2025 1:41:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX072325

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047077.D	1,2,3-Trichloropropane	JOHN	7/24/2025 8:45:14 AM	MMDadoda	7/24/2025 2:22:56 PM	Peak Integrated by Software
VX0723WBS01	VX047080.D	1,2,3-Trichloropropane	JOHN	7/24/2025 8:45:21 AM	MMDadoda	7/24/2025 2:22:58 PM	Peak Integrated by Software
VX0723WBSD01	VX047088.D	1,2,3-Trichloropropane	JOHN	7/24/2025 8:45:52 AM	MMDadoda	7/24/2025 2:23:11 PM	Peak Integrated by Software
Q2481-18	VX047102.D	4-Methyl-2-Pentanone	JOHN	7/24/2025 8:46:24 AM	MMDadoda	7/24/2025 2:23:18 PM	Peak Integrated by Software
VSTDCCC050	VX047103.D	1,2,3-Trichloropropane	JOHN	7/24/2025 8:46:29 AM	MMDadoda	7/24/2025 2:23:21 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VX072425

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX047105.D	1,2,3-Trichloropropane	JOHN	7/25/2025 8:49:59 AM	MMDadoda	7/25/2025 4:37:50 PM	Peak Integrated by Software
VX0724WBS01	VX047108.D	1,2,3-Trichloropropane	JOHN	7/25/2025 8:50:04 AM	MMDadoda	7/25/2025 4:37:52 PM	Peak Integrated by Software
Q2481-13	VX047115.D	Acetone	JOHN	7/25/2025 8:50:13 AM	MMDadoda	7/25/2025 4:37:55 PM	Peak Integrated by Software
Q2481-13	VX047115.D	Methacrylonitrile	JOHN	7/25/2025 8:50:13 AM	MMDadoda	7/25/2025 4:37:55 PM	Peak Integrated by Software
VSTDCCC050	VX047126.D	1,2,3-Trichloropropane	JOHN	7/25/2025 8:50:26 AM	MMDadoda	7/25/2025 4:37:57 PM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX072125

Review By	John Carlone	Review On	7/22/2025 8:51:02 AM
Supervise By	Maresh Dadoda	Supervise On	7/22/2025 1:41:20 PM
SubDirectory	VX072125	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134843		
Initial Calibration Stds	VP134844,VP134845,VP134846,VP134847,VP134848,VP134849		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP134850		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047054.D	21 Jul 2025 08:53	JC/MD	Ok
2	VSTDIC001	VX047055.D	21 Jul 2025 09:47	JC/MD	Ok,M
3	VSTDIC005	VX047056.D	21 Jul 2025 10:08	JC/MD	Ok,M
4	VSTDIC020	VX047057.D	21 Jul 2025 10:29	JC/MD	Ok,M
5	VSTDIC050	VX047058.D	21 Jul 2025 10:50	JC/MD	Ok,M
6	VSTDIC100	VX047059.D	21 Jul 2025 11:11	JC/MD	Ok,M
7	VSTDIC150	VX047060.D	21 Jul 2025 11:32	JC/MD	Ok,M
8	IBLK	VX047061.D	21 Jul 2025 11:52	JC/MD	Ok
9	VSTDICV050	VX047062.D	21 Jul 2025 13:17	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX072325

Review By	John Carlone	Review On	7/24/2025 8:47:51 AM
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 3:06:37 PM
SubDirectory	VX072325	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134888		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134889,VP134890		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047076.D	23 Jul 2025 09:00	JC/MD	Ok
2	VSTDCCC050	VX047077.D	23 Jul 2025 09:30	JC/MD	Ok,M
3	VX0723MBL01	VX047078.D	23 Jul 2025 09:58	JC/MD	Ok
4	VX0723WBL01	VX047079.D	23 Jul 2025 10:45	JC/MD	Ok
5	VX0723WBS01	VX047080.D	23 Jul 2025 11:13	JC/MD	Ok,M
6	VX0723MBS01	VX047081.D	23 Jul 2025 11:41	JC/MD	Ok,M
7	PB168956TB	VX047082.D	23 Jul 2025 12:02	JC/MD	Ok,M
8	Q2668-04	VX047083.D	23 Jul 2025 12:22	JC/MD	Ok,M
9	Q2668-08	VX047084.D	23 Jul 2025 12:43	JC/MD	Ok
10	Q2668-12	VX047085.D	23 Jul 2025 13:04	JC/MD	Ok
11	Q2672-01	VX047086.D	23 Jul 2025 13:25	JC/MD	Ok,M
12	Q2672-03	VX047087.D	23 Jul 2025 13:46	JC/MD	Ok
13	VX0723WBSD01	VX047088.D	23 Jul 2025 14:07	JC/MD	Ok,M
14	Q2660-03	VX047089.D	23 Jul 2025 14:28	JC/MD	Not Ok
15	IBLK	VX047090.D	23 Jul 2025 14:49	JC/MD	Ok
16	Q2660-03	VX047091.D	23 Jul 2025 15:10	JC/MD	Ok,M
17	Q2481-15	VX047092.D	23 Jul 2025 15:31	JC/MD	Not Ok
18	Q2481-21	VX047093.D	23 Jul 2025 15:52	JC/MD	Not Ok
19	Q2481-16	VX047094.D	23 Jul 2025 16:13	JC/MD	Not Ok
20	Q2481-20	VX047095.D	23 Jul 2025 16:34	JC/MD	Not Ok
21	Q2481-14	VX047096.D	23 Jul 2025 16:54	JC/MD	Not Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX072325

Review By	John Carlone	Review On	7/24/2025 8:47:51 AM
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 3:06:37 PM
SubDirectory	VX072325	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134888		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134889,VP134890		

22	Q2481-12	VX047097.D	23 Jul 2025 17:15	JC/MD	Not Ok
23	PB168966TB	VX047098.D	23 Jul 2025 17:36	JC/MD	Ok,M
24	Q2481-19	VX047099.D	23 Jul 2025 17:57	JC/MD	Not Ok
25	Q2481-13	VX047100.D	23 Jul 2025 18:18	JC/MD	Not Ok
26	Q2481-17	VX047101.D	23 Jul 2025 18:39	JC/MD	Not Ok
27	Q2481-18	VX047102.D	23 Jul 2025 19:00	JC/MD	Ok,M
28	VSTDCCC050	VX047103.D	23 Jul 2025 19:21	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX072425

Review By	John Carlone	Review On	7/25/2025 8:51:46 AM
Supervise By	Maresh Dadoda	Supervise On	7/25/2025 4:38:01 PM
SubDirectory	VX072425	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134906,VP134907		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX047104.D	24 Jul 2025 09:12	JC/MD	Ok
2	VSTDCCC050	VX047105.D	24 Jul 2025 09:44	JC/MD	Ok,M
3	VX0724MBL01	VX047106.D	24 Jul 2025 10:13	JC/MD	Ok
4	VX0724WBL01	VX047107.D	24 Jul 2025 10:34	JC/MD	Ok
5	VX0724WBS01	VX047108.D	24 Jul 2025 10:55	JC/MD	Ok,M
6	VX0724WBSD01	VX047109.D	24 Jul 2025 11:21	JC/MD	Ok,M
7	Q2682-01	VX047110.D	24 Jul 2025 11:42	JC/MD	Ok
8	Q2682-02	VX047111.D	24 Jul 2025 12:03	JC/MD	ReRun
9	IBLK	VX047112.D	24 Jul 2025 12:24	JC/MD	Ok
10	Q2682-02	VX047113.D	24 Jul 2025 12:45	JC/MD	Ok
11	Q2481-14	VX047114.D	24 Jul 2025 13:06	JC/MD	Ok
12	Q2481-13	VX047115.D	24 Jul 2025 13:26	JC/MD	Ok,M
13	IBLK	VX047116.D	24 Jul 2025 13:47	JC/MD	Ok
14	Q2481-12	VX047117.D	24 Jul 2025 14:08	JC/MD	Ok
15	Q2481-15	VX047118.D	24 Jul 2025 14:29	JC/MD	Ok
16	Q2481-16	VX047119.D	24 Jul 2025 14:50	JC/MD	Ok
17	Q2481-21	VX047120.D	24 Jul 2025 15:12	JC/MD	Ok
18	Q2481-19	VX047121.D	24 Jul 2025 15:33	JC/MD	Ok
19	Q2481-20	VX047122.D	24 Jul 2025 15:54	JC/MD	Ok
20	Q2481-17	VX047123.D	24 Jul 2025 16:15	JC/MD	Ok
21	IBLK	VX047124.D	24 Jul 2025 16:37	JC/MD	Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX072425

Review By	John Carlone	Review On	7/25/2025 8:51:46 AM
Supervise By	Mahesh Dadoda	Supervise On	7/25/2025 4:38:01 PM
SubDirectory	VX072425	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134906,VP134907		

22	IBLK	VX047125.D	24 Jul 2025 16:58	JC/MD	Ok
23	VSTDCCC050	VX047126.D	24 Jul 2025 17:19	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX072125

Review By	John Carlone	Review On	7/22/2025 8:51:02 AM
Supervise By	Maresh Dadoda	Supervise On	7/22/2025 1:41:20 PM
SubDirectory	VX072125	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134843		
Initial Calibration Stds	VP134844,VP134845,VP134846,VP134847,VP134848,VP134849		
CCC			
Internal Standard/PEM			
ICV/I.BLK	VP134850		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047054.D	21 Jul 2025 08:53		JC/MD	Ok
2	VSTDICC001	VSTDICC001	VX047055.D	21 Jul 2025 09:47		JC/MD	Ok,M
3	VSTDICC005	VSTDICC005	VX047056.D	21 Jul 2025 10:08	Comp. #11 is on Linear Regression	JC/MD	Ok,M
4	VSTDICC020	VSTDICC020	VX047057.D	21 Jul 2025 10:29		JC/MD	Ok,M
5	VSTDICCC050	VSTDICCC050	VX047058.D	21 Jul 2025 10:50		JC/MD	Ok,M
6	VSTDICC100	VSTDICC100	VX047059.D	21 Jul 2025 11:11		JC/MD	Ok,M
7	VSTDICC150	VSTDICC150	VX047060.D	21 Jul 2025 11:32		JC/MD	Ok,M
8	IBLK	IBLK	VX047061.D	21 Jul 2025 11:52		JC/MD	Ok
9	VSTDICV050	ICVVX072125	VX047062.D	21 Jul 2025 13:17		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX072325

Review By	John Carlone	Review On	7/24/2025 8:47:51 AM
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 3:06:37 PM
SubDirectory	VX072325	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134888		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134889,VP134890		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047076.D	23 Jul 2025 09:00		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047077.D	23 Jul 2025 09:30	pH#Lot#V12668	JC/MD	Ok,M
3	VX0723MBL01	VX0723MBL01	VX047078.D	23 Jul 2025 09:58		JC/MD	Ok
4	VX0723WBL01	VX0723WBL01	VX047079.D	23 Jul 2025 10:45		JC/MD	Ok
5	VX0723WBS01	VX0723WBS01	VX047080.D	23 Jul 2025 11:13		JC/MD	Ok,M
6	VX0723MBS01	VX0723MBS01	VX047081.D	23 Jul 2025 11:41		JC/MD	Ok,M
7	PB168956TB	PB168956TB	VX047082.D	23 Jul 2025 12:02		JC/MD	Ok,M
8	Q2668-04	TP-2	VX047083.D	23 Jul 2025 12:22	vial A pH#5.0	JC/MD	Ok,M
9	Q2668-08	TP-3	VX047084.D	23 Jul 2025 12:43	vial A pH#5.0	JC/MD	Ok
10	Q2668-12	TP-1	VX047085.D	23 Jul 2025 13:04	vial A pH#5.0	JC/MD	Ok
11	Q2672-01	AUD-25-0124	VX047086.D	23 Jul 2025 13:25	vial A pH#5.0	JC/MD	Ok,M
12	Q2672-03	AUD-25-0128	VX047087.D	23 Jul 2025 13:46	vial A pH#5.0	JC/MD	Ok
13	VX0723WBSD01	VX0723WBSD01	VX047088.D	23 Jul 2025 14:07		JC/MD	Ok,M
14	Q2660-03	MOO-25-0218	VX047089.D	23 Jul 2025 14:28	Run @ Lower Dilution	JC/MD	Not Ok
15	IBLK	IBLK	VX047090.D	23 Jul 2025 14:49		JC/MD	Ok
16	Q2660-03	MOO-25-0218	VX047091.D	23 Jul 2025 15:10	cloth material	JC/MD	Ok,M
17	Q2481-15	CC0627-AOXL	VX047092.D	23 Jul 2025 15:31	Need Straight Run	JC/MD	Not Ok
18	Q2481-21	CC0627-SFBL	VX047093.D	23 Jul 2025 15:52	Surrogate fail;Need Straight Run	JC/MD	Not Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX072325

Review By	John Carlone	Review On	7/24/2025 8:47:51 AM
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 3:06:37 PM
SubDirectory	VX072325	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134888		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134889,VP134890		

19	Q2481-16	CC0625-NL	VX047094.D	23 Jul 2025 16:13	Need Straight Run	JC/MD	Not Ok
20	Q2481-20	CC0627-BL	VX047095.D	23 Jul 2025 16:34	Need Straight Run	JC/MD	Not Ok
21	Q2481-14	CC0625-OXBL	VX047096.D	23 Jul 2025 16:54	Need Straight Run	JC/MD	Not Ok
22	Q2481-12	CC0627-AL	VX047097.D	23 Jul 2025 17:15	Need Straight Run	JC/MD	Not Ok
23	PB168966TB	PB168966TB	VX047098.D	23 Jul 2025 17:36		JC/MD	Ok,M
24	Q2481-19	CC0627-CLOXAL	VX047099.D	23 Jul 2025 17:57	Need Straight Run	JC/MD	Not Ok
25	Q2481-13	CC0627-CLOXPL	VX047100.D	23 Jul 2025 18:18	Need Straight Run	JC/MD	Not Ok
26	Q2481-17	CC0627-OXPL	VX047101.D	23 Jul 2025 18:39	Need Straight Run	JC/MD	Not Ok
27	Q2481-18	CC0627-OXL	VX047102.D	23 Jul 2025 19:00	vial A pH<2	JC/MD	Ok,M
28	VSTDCCC050	VSTDCCC050EC	VX047103.D	23 Jul 2025 19:21		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX072425

Review By	John Carlone	Review On	7/25/2025 8:51:46 AM
Supervise By	Maresh Dadoda	Supervise On	7/25/2025 4:38:01 PM
SubDirectory	VX072425	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134906,VP134907		

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX047104.D	24 Jul 2025 09:12		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX047105.D	24 Jul 2025 09:44	pH#Lot#V12668	JC/MD	Ok,M
3	VX0724MBL01	VX0724MBL01	VX047106.D	24 Jul 2025 10:13		JC/MD	Ok
4	VX0724WBL01	VX0724WBL01	VX047107.D	24 Jul 2025 10:34		JC/MD	Ok
5	VX0724WBS01	VX0724WBS01	VX047108.D	24 Jul 2025 10:55		JC/MD	Ok,M
6	VX0724WBSD01	VX0724WBSD01	VX047109.D	24 Jul 2025 11:21		JC/MD	Ok,M
7	Q2682-01	TOWER-1	VX047110.D	24 Jul 2025 11:42	vial A pH<2	JC/MD	Ok
8	Q2682-02	TOWER-2	VX047111.D	24 Jul 2025 12:03	vial A pH<2 Surrogate Fail	JC/MD	ReRun
9	IBLK	IBLK	VX047112.D	24 Jul 2025 12:24		JC/MD	Ok
10	Q2682-02	TOWER-2	VX047113.D	24 Jul 2025 12:45	vial B pH<2	JC/MD	Ok
11	Q2481-14	CC0625-OXBL	VX047114.D	24 Jul 2025 13:06	vial A pH#6.0 Surrogate Fail	JC/MD	Ok
12	Q2481-13	CC0627-CLOXPL	VX047115.D	24 Jul 2025 13:26	vial A pH<2	JC/MD	Ok,M
13	IBLK	IBLK	VX047116.D	24 Jul 2025 13:47		JC/MD	Ok
14	Q2481-12	CC0627-AL	VX047117.D	24 Jul 2025 14:08	vial A pH<2	JC/MD	Ok
15	Q2481-15	CC0627-AOXL	VX047118.D	24 Jul 2025 14:29	vial A pH<2 Surrogate Fail	JC/MD	Ok
16	Q2481-16	CC0625-NL	VX047119.D	24 Jul 2025 14:50	vial A pH#6.0	JC/MD	Ok
17	Q2481-21	CC0627-SFBL	VX047120.D	24 Jul 2025 15:12	vial A pH#6.0 Surrogate Fail;Internal Standard Fail	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX072425

Review By	John Carlone	Review On	7/25/2025 8:51:46 AM
Supervise By	Maresh Dadoda	Supervise On	7/25/2025 4:38:01 PM
SubDirectory	VX072425	HP Acquire Method	HP Processing Method 82X072125W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134905		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134906,VP134907		

18	Q2481-19	CC0627-CLOXAL	VX047121.D	24 Jul 2025 15:33	vial A pH<2	JC/MD	Ok
19	Q2481-20	CC0627-BL	VX047122.D	24 Jul 2025 15:54	vial A pH#6.0 Surrogate Fail;Internal Standard Fail	JC/MD	Ok
20	Q2481-17	CC0267-OXPL	VX047123.D	24 Jul 2025 16:15	vial A pH<2	JC/MD	Ok
21	IBLK	IBLK	VX047124.D	24 Jul 2025 16:37		JC/MD	Ok
22	IBLK	IBLK	VX047125.D	24 Jul 2025 16:58		JC/MD	Ok
23	VSTDCCC050	VSTDCCC050EC	VX047126.D	24 Jul 2025 17:19		JC/MD	Ok,M

M : Manual Integration

LAB CHRONICLE

OrderID:	Q2481	OrderDate:	7/2/2025 8:24:39 AM
Client:	Environmental Restoration, LLC	Project:	CC2-16 Analytical
Contact:	Ryan Simpson	Location:	A13

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2481-12	CC0627-AL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-13	CC0627-CLOXPL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-14	CC0625-OXBL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-15	CC0627-AOXL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-16	CC0625-NL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-17	CC0267-OXPL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-18	CC0627-OXL	TCLP	TCLP VOA	8260D	06/27/25		07/23/25	06/27/25
Q2481-19	CC0627-CLOXAL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-20	CC0627-BL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25
Q2481-21	CC0627-SFBL	TCLP	TCLP VOA	8260D	06/27/25		07/24/25	06/27/25

SOP ID :	M1311-TCLP-16		
SDG No :	N/A	Start Prep Date :	N/A Time : N/A
Weigh By :	N/A	End Prep Date :	N/A Time : N/A
Balance ID :	N/A	Combination Ratio :	N/A
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch :	N/A
Extraction By :	N/A	Initial Room Temperature:	N/A
Filter By :	N/A	Final Room Temperature:	N/A
Pipette ID :	N/A	TCLP Technician Signature :	<u>ho</u>
Tumbler ID :	N/A	Supervisor By :	<u>12</u>
TCLP Filter ID :	N/A		

Standard Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

We receive water sample in 40 ml vial tr to VOC LAB without filtration and tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
07/23/15 11:00	<u>SA</u> <u>1-EP ROOM</u>	<u>SY</u> <u>VOC Lab</u>
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168966TB	LEB966	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-12	CC0627-AL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-13	CC0627-CLOXPL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-14	CC0625-OBXL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-15	CC0627-AOXL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-16	CC0625-NL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-17	CC0267-OBXL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-18	CC0627-OBXL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-19	CC0627-CLOXAL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-20	CC0627-BL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-21	CC0627-SFBL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168966TB	LEB966	N/A	N/A	N/A	N/A	N/A	N/A
Q2481-12	CC0627-AL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-13	CC0627-CLOXPL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-14	CC0625-OXBL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-15	CC0627-AOXL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-16	CC0625-NL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-17	CC0267-OXPL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-18	CC0627-OXL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-19	CC0627-CLOXAL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-20	CC0627-BL	N/A	N/A	N/A	N/A	<0.5	N/A
Q2481-21	CC0627-SFBL	N/A	N/A	N/A	N/A	<0.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp zhe w q2481

WorkList ID : 190884

Department : TCLP Extraction

Date : 07-22-2025 15:40:26

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2481-12	CC0627-AL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-13	CC0627-CLOXPL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-14	CC0625-OXBL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-15	CC0627-AOXL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-16	CC0625-NL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-17	CC0267-OXPL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-18	CC0627-OXL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-19	CC0627-CLOXAL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-20	CC0627-BL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE
Q2481-21	CC0627-SFBL	Water	TCLP ZHE Extraction	Cool 4 deg C	ENVI60	A13	06/27/2025	1311 ZHE

Date/Time 07/22/25 16:00

Raw Sample Received by: SP WLC

Raw Sample Relinquished by: QP SM

Date/Time 07/22/25 18:00

Raw Sample Received by: QP SM

Raw Sample Relinquished by: SP WLC