

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111725\
 Data File : VW032461.D
 Acq On : 17 Nov 2025 16:23
 Operator : SY/MD
 Sample : Q3646-01
 Misc : 6.07g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SU-03-11142025

Quant Time: Nov 18 03:06:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	197381	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	490674	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	516270	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	240793	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	176251	69.262	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 138.520%		
35) Dibromofluoromethane	7.904	113	158354	53.903	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 107.800%		
50) Toluene-d8	10.325	98	541229	48.023	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 96.040%		
62) 4-Bromofluorobenzene	12.617	95	224198	52.660	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 105.320%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.234	59	236	1.073	ug/l #	2
13) Acrolein	3.917	56	401	1.086	ug/l #	14
16) Acetone	4.167	43	3203	4.207	ug/l	93
18) Methyl Acetate	4.704	43	7536	3.997	ug/l	94
20) Methylene Chloride	4.954	84	27299	10.027	ug/l	93
31) Cyclohexane	7.959	56	5555	1.320	ug/l #	1
36) 1,1-Dichloropropene	7.965	75	18871	4.360	ug/l #	49
38) Carbon Tetrachloride	7.965	117	21795	5.667	ug/l #	16
49) 1,4-Dioxane	9.453	88	58	2.041	ug/l #	1
74) N-amyl acetate	12.245	43	7778	1.266	ug/l #	60
76) 1,2,3-Trichloropropane	12.617	75	115740	35.055	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.940	105	70990	4.866	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.617	75	115740	80.291	ug/l #	11
83) tert-Butylbenzene	13.440	119	53311	4.200	ug/l #	61
86) p-Isopropyltoluene	13.489	119	25013	1.603	ug/l	94
89) n-Butylbenzene	13.781	91	37874	2.484	ug/l #	1
90) Hexachloroethane	14.092	117	16577	5.891	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.495	75	865	1.196	ug/l #	44

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

Quant Time: Nov 18 03:06:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
Quant Title : SW846 8260
QLast Update : Tue Nov 11 03:48:21 2025
Response via : Initial Calibration

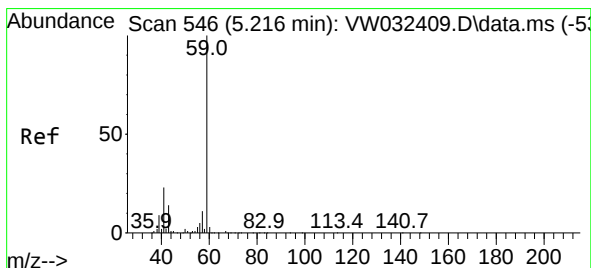
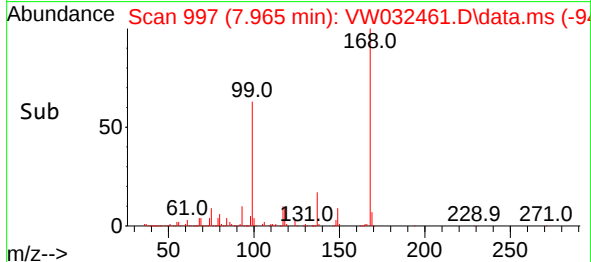
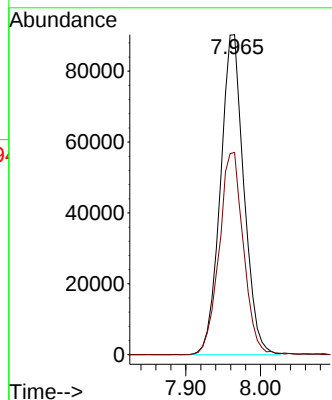
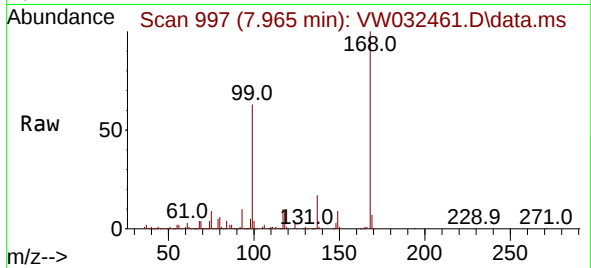




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

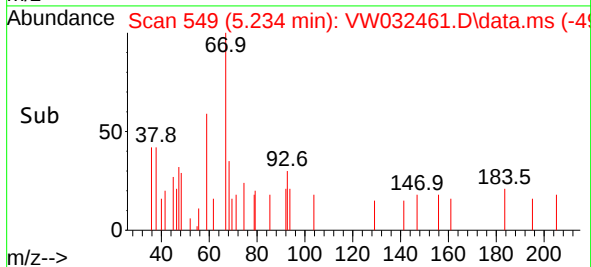
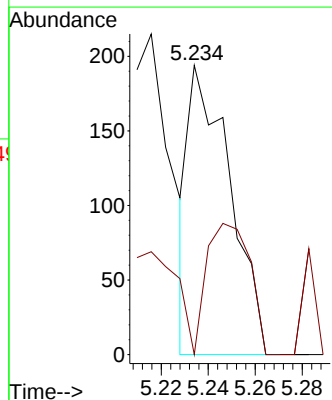
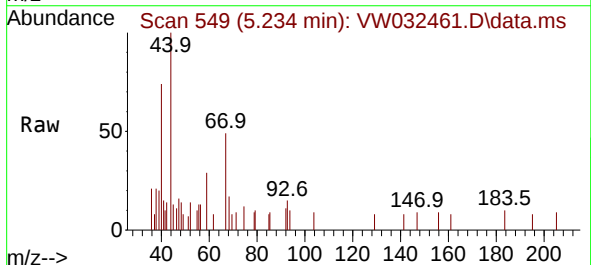
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

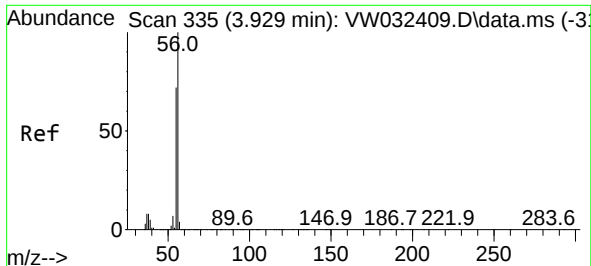
Tgt Ion:168 Resp: 197381
Ion Ratio Lower Upper
168 100
99 63.2 45.4 68.2



#11
Tert butyl alcohol
Concen: 1.073 ug/l
RT: 5.234 min Scan# 549
Delta R.T. 0.018 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 59 Resp: 236
Ion Ratio Lower Upper
59 100
57 47.5 8.6 12.8

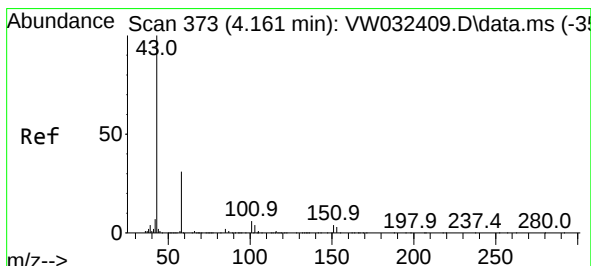
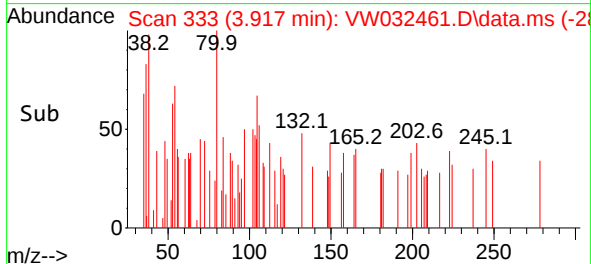
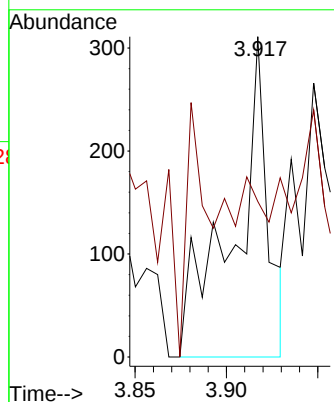
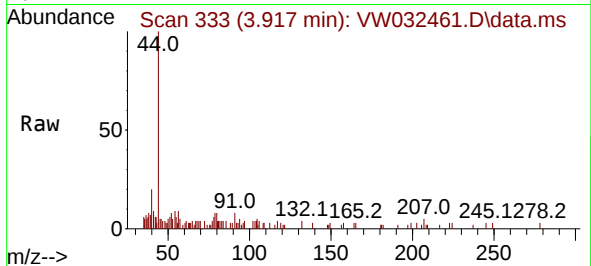




#13
Acrolein
Concen: 1.086 ug/l
RT: 3.917 min Scan# 311
Delta R.T. -0.012 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

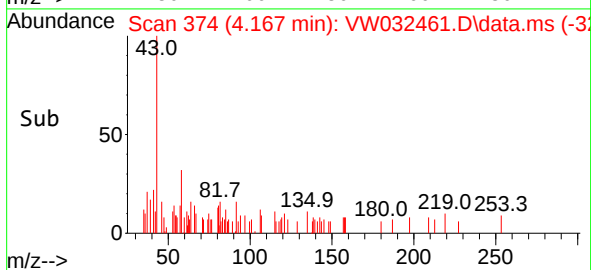
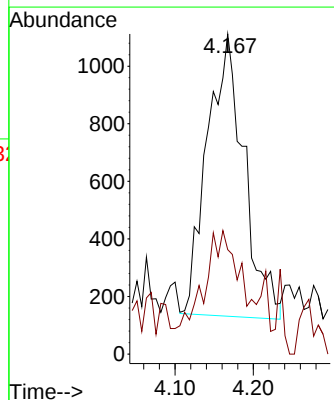
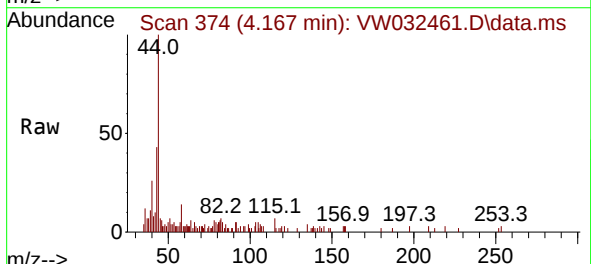
Instrument :
MSVOA_W
ClientSampleId :
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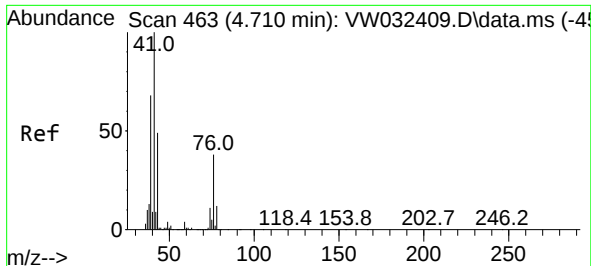
Tgt Ion: 56 Resp: 401
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 4.207 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 43 Resp: 3203
Ion Ratio Lower Upper
43 100
58 27.4 24.8 37.2

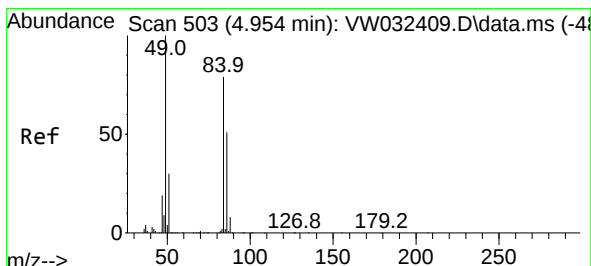
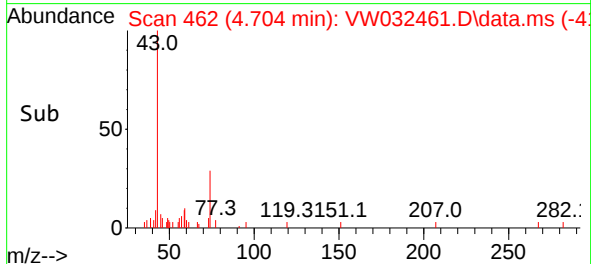
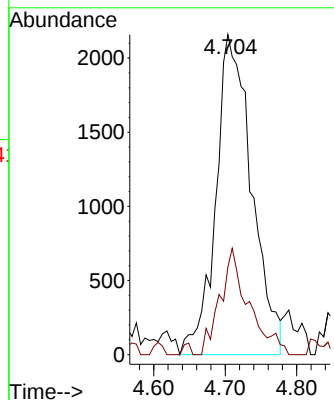
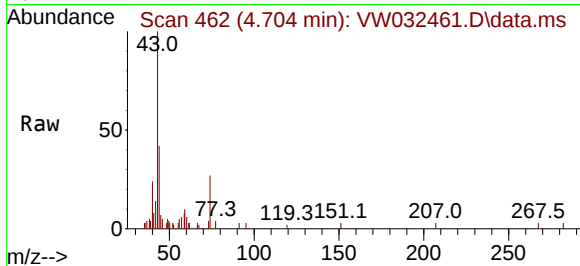




#18
Methyl Acetate
Concen: 3.997 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

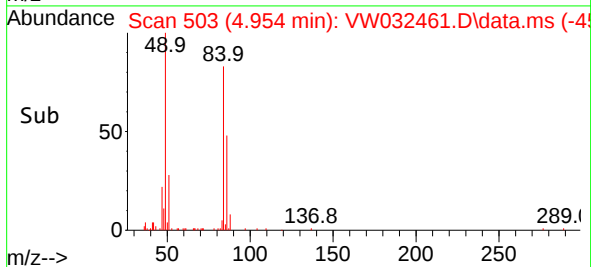
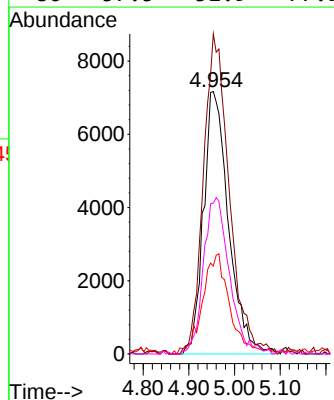
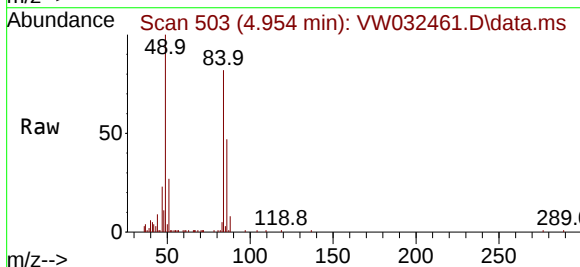
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

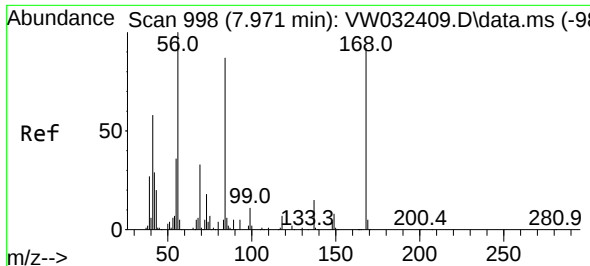
Tgt Ion: 43 Resp: 7536
Ion Ratio Lower Upper
43 100
74 26.4 18.9 28.3



#20
Methylene Chloride
Concen: 10.027 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

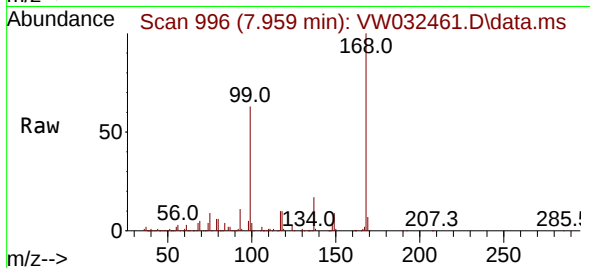
Tgt Ion: 84 Resp: 27299
Ion Ratio Lower Upper
84 100
49 122.0 101.5 152.3
51 32.0 30.6 46.0
86 57.5 51.9 77.9



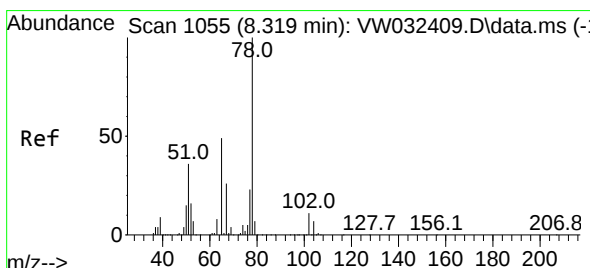
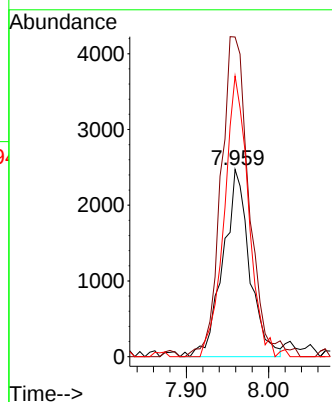
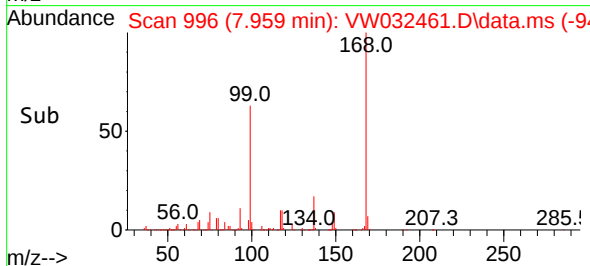


#31
Cyclohexane
Concen: 1.320 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

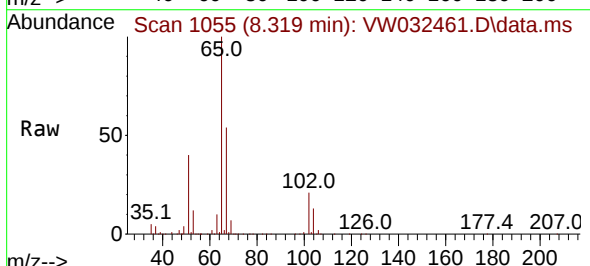
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025



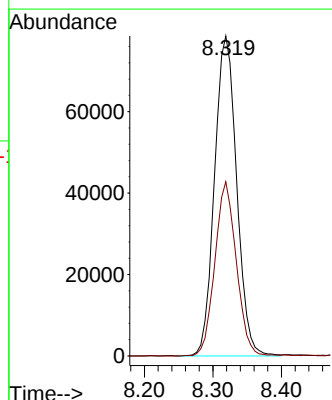
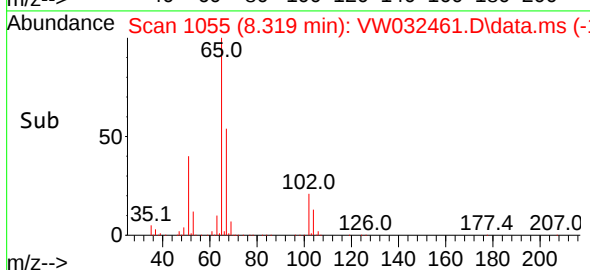
Tgt Ion: 56 Resp: 5555
Ion Ratio Lower Upper
56 100
69 176.0 26.5 39.7#
84 154.5 69.6 104.4#

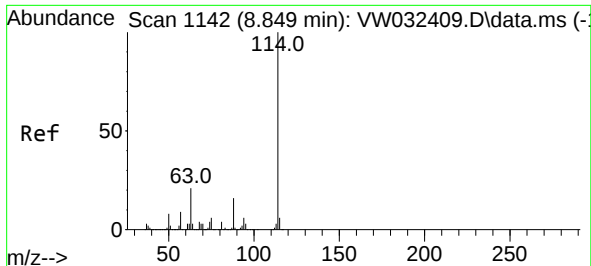


#33
1,2-Dichloroethane-d4
Concen: 69.262 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23



Tgt Ion: 65 Resp: 176251
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8

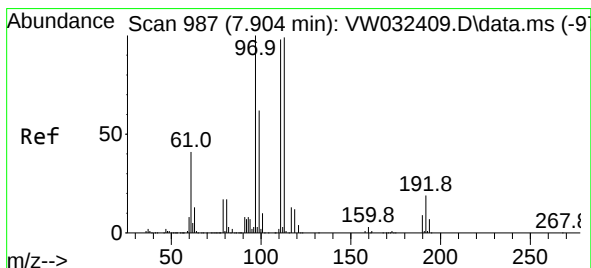
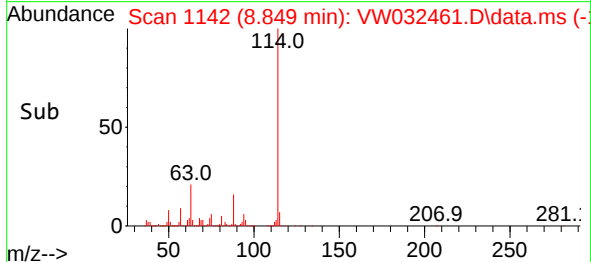
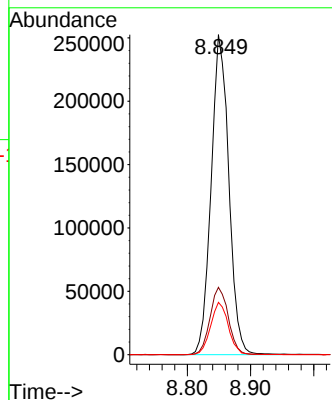
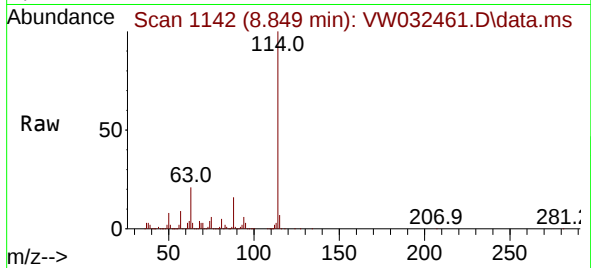




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

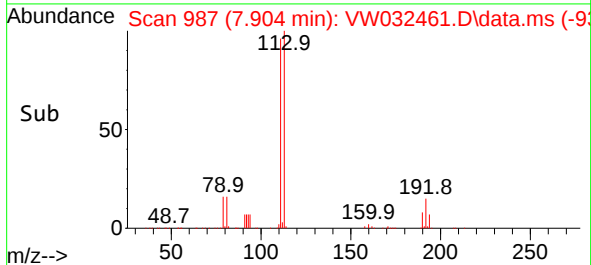
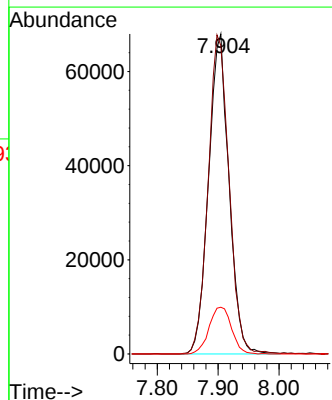
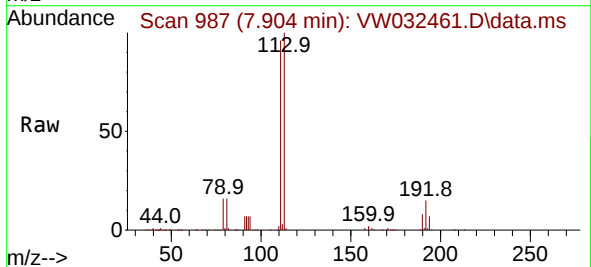
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

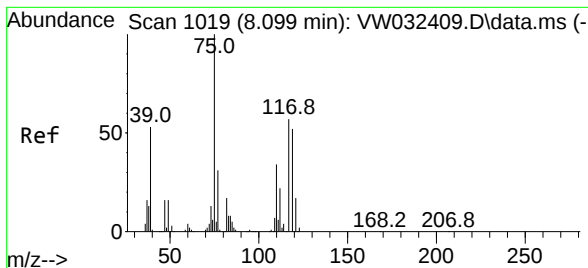
Tgt Ion:114 Resp: 490674
Ion Ratio Lower Upper
114 100
63 21.0 0.0 41.8
88 16.4 0.0 32.6



#35
Dibromofluoromethane
Concen: 53.903 ug/l
RT: 7.904 min Scan# 987
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion:113 Resp: 158354
Ion Ratio Lower Upper
113 100
111 102.3 83.1 124.7
192 16.1 13.4 20.2





#36

1,1-Dichloropropene

Concen: 4.360 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.134 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

Instrument :

MSVOA_W

ClientSampleId :

SU-03-11142025

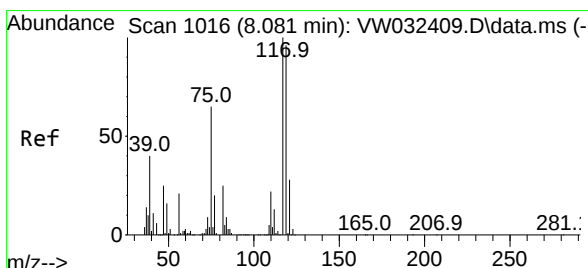
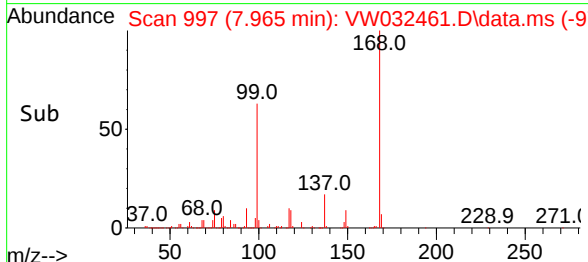
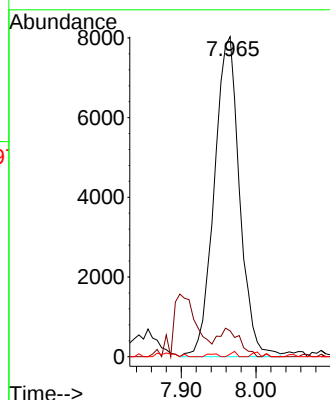
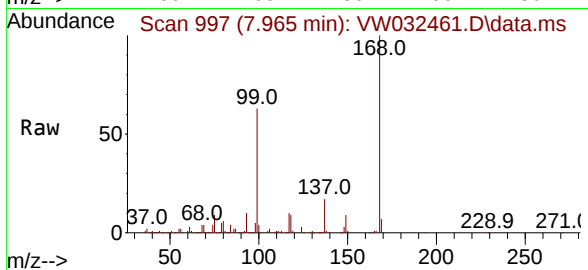
Tgt Ion: 75 Resp: 18871

Ion Ratio Lower Upper

75 100

110 7.6 17.2 51.5#

77 0.4 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 5.667 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

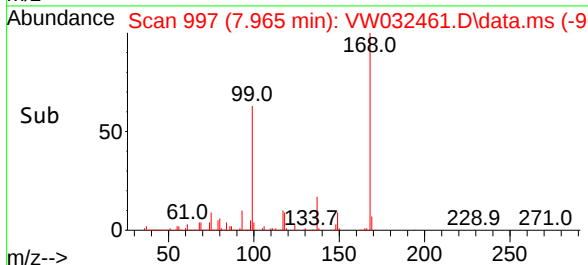
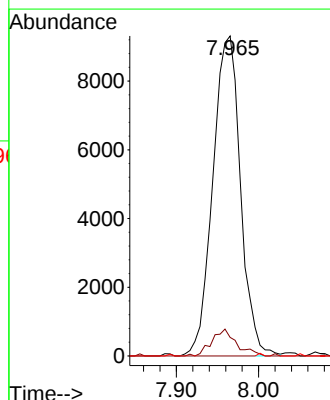
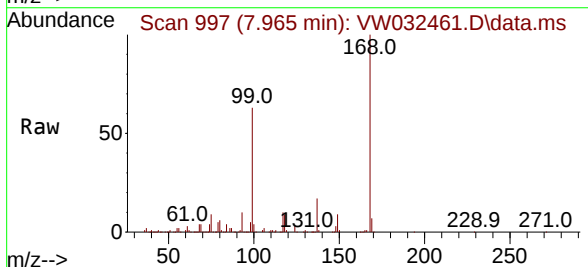
Tgt Ion: 117 Resp: 21795

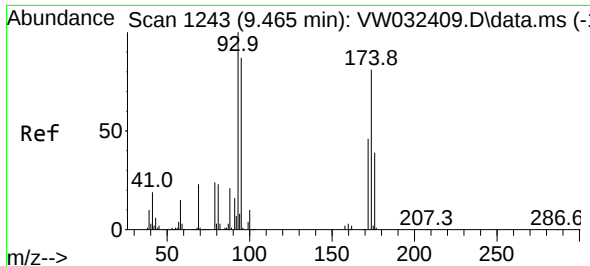
Ion Ratio Lower Upper

117 100

119 5.8 77.0 115.4#

121 0.0 22.0 33.0#

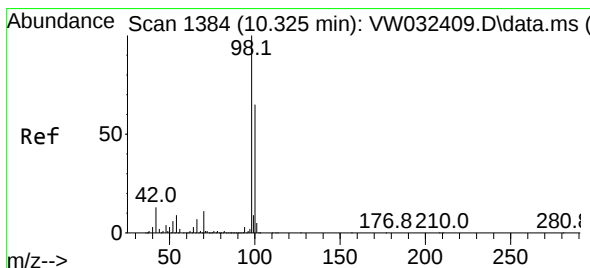
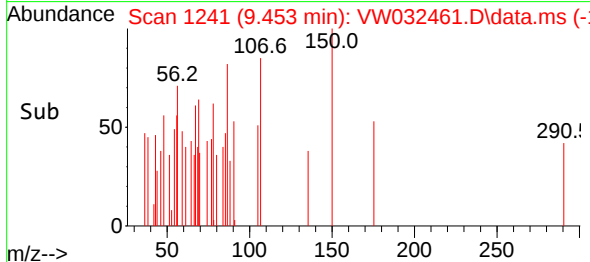
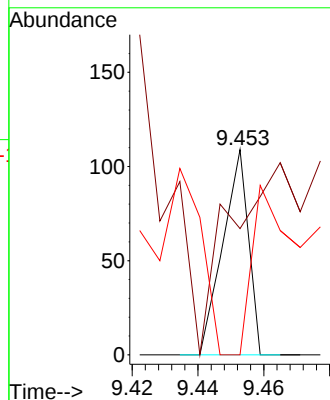
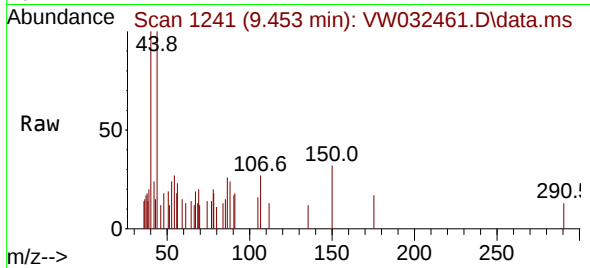




#49
1,4-Dioxane
Concen: 2.041 ug/l
RT: 9.453 min Scan# 11
Delta R.T. -0.012 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

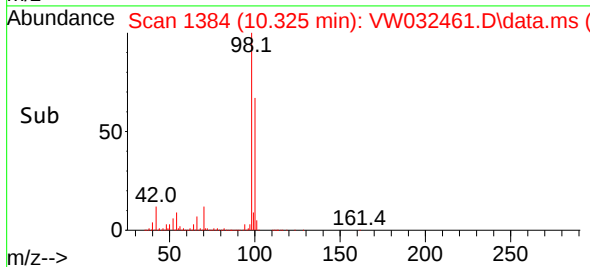
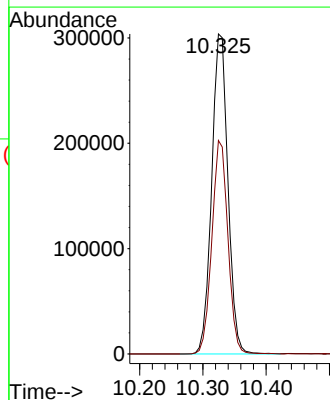
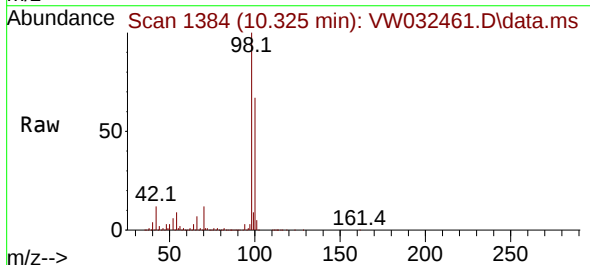
Instrument :
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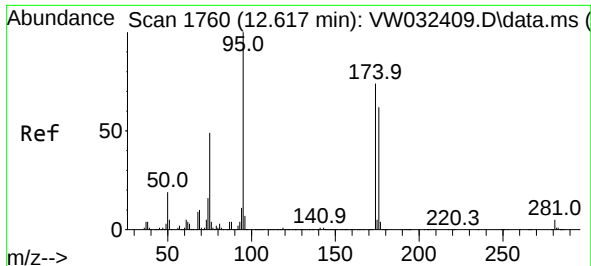
Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 181.0 63.0 94.4#



#50
Toluene-d8
Concen: 48.023 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 98 Resp: 541229
Ion Ratio Lower Upper
98 100
100 65.9 53.3 79.9

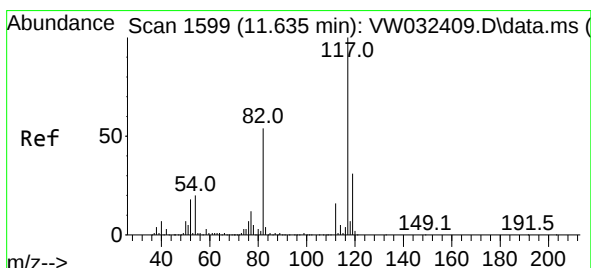
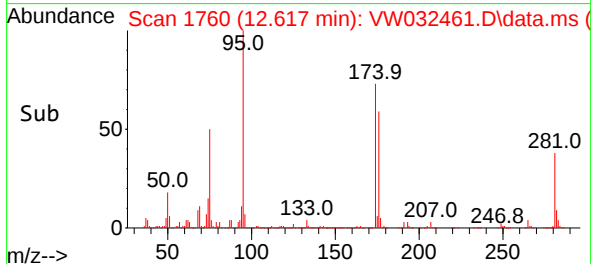
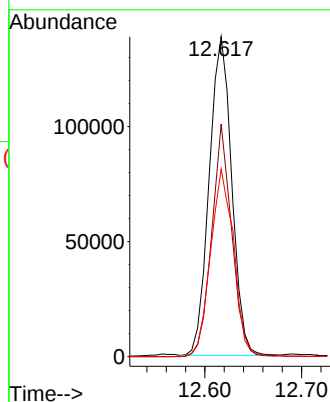
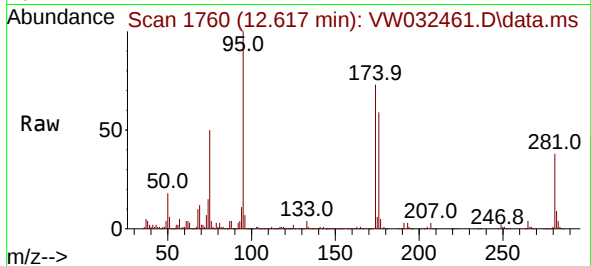




#62
4-Bromofluorobenzene
Concen: 52.660 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

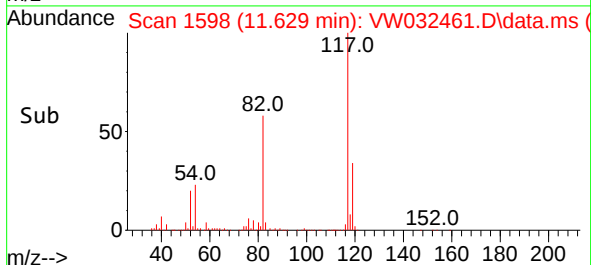
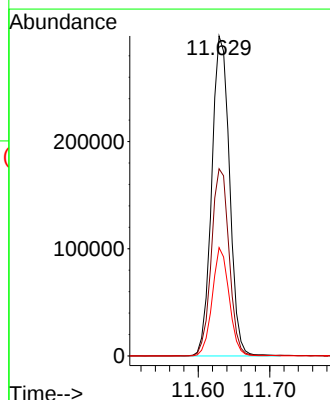
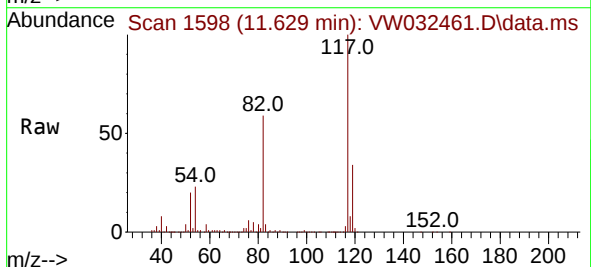
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

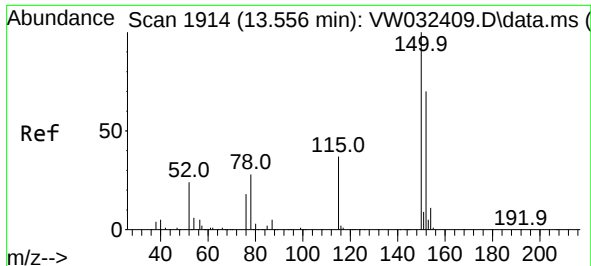
Tgt Ion: 95 Resp: 224198
Ion Ratio Lower Upper
95 100
174 65.3 0.0 135.4
176 60.5 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 117 Resp: 516270
Ion Ratio Lower Upper
117 100
82 58.4 43.0 64.4
119 33.8 25.0 37.6

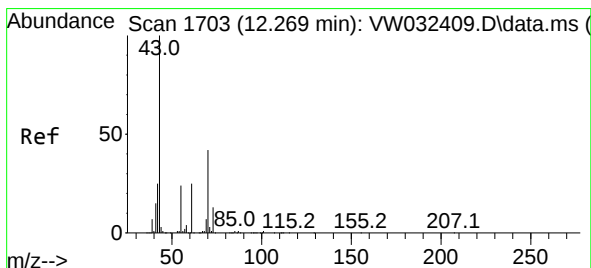
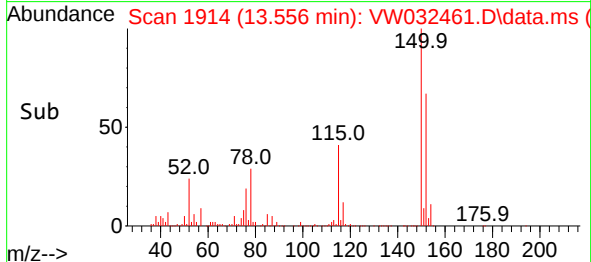
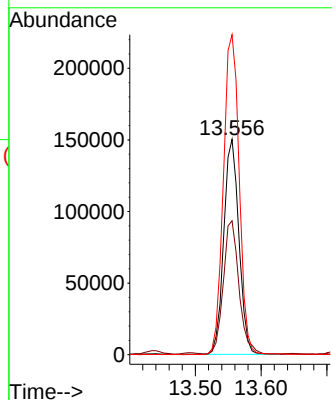
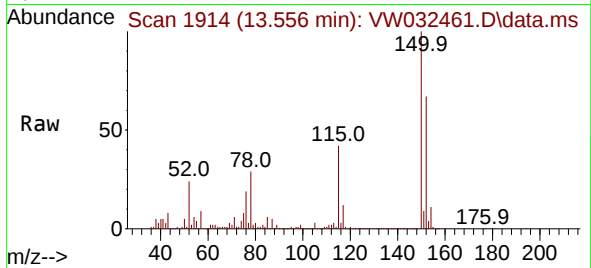




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

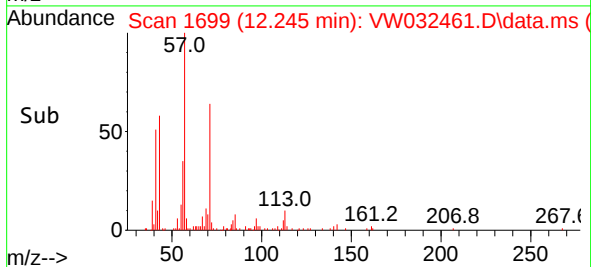
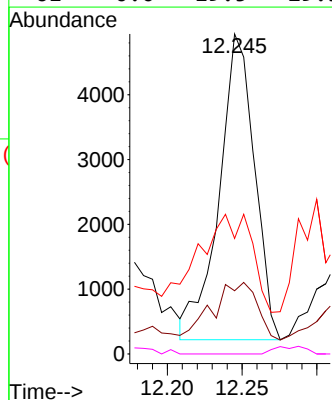
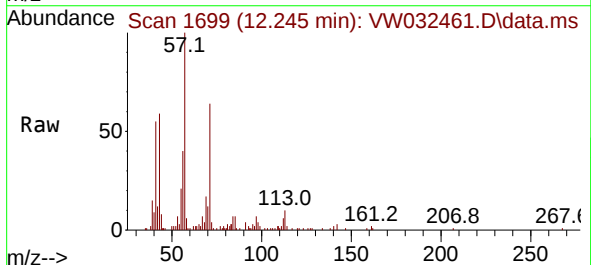
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

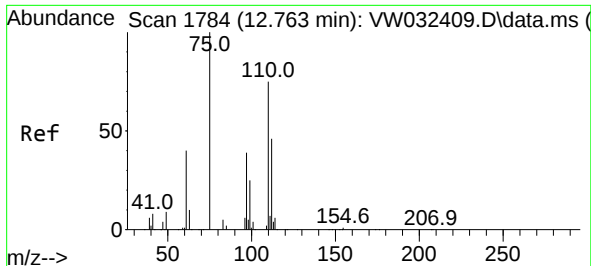
Tgt Ion:152 Resp: 240793
Ion Ratio Lower Upper
152 100
115 64.2 32.8 98.3
150 155.3 0.0 356.6



#74
N-ethyl acetate
Concen: 1.266 ug/l
RT: 12.245 min Scan# 1699
Delta R.T. -0.024 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 43 Resp: 7778
Ion Ratio Lower Upper
43 100
70 23.6 33.5 50.3#
55 48.7 19.3 28.9#
61 0.0 19.5 29.3#

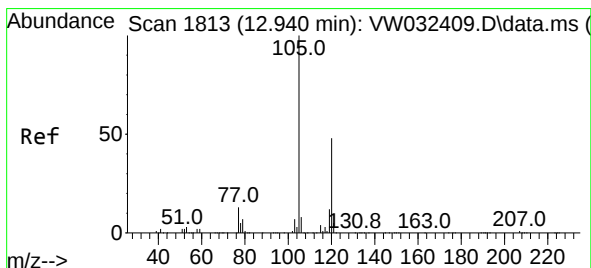
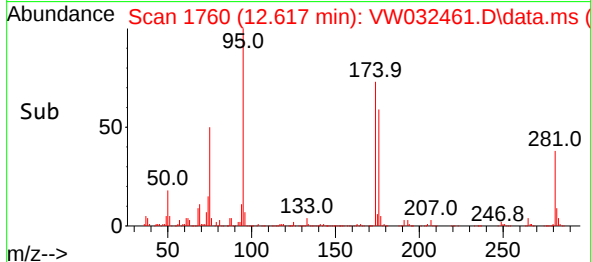
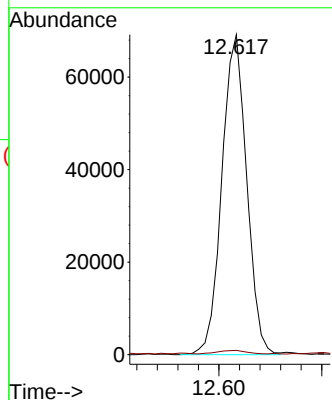
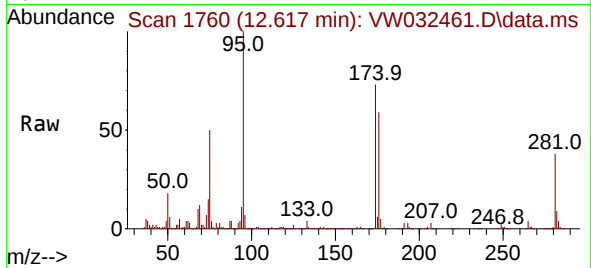




#76
1,2,3-Trichloropropane
Concen: 35.055 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

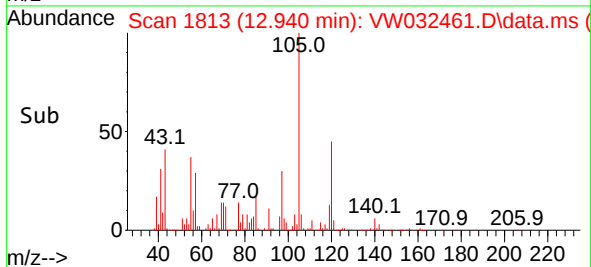
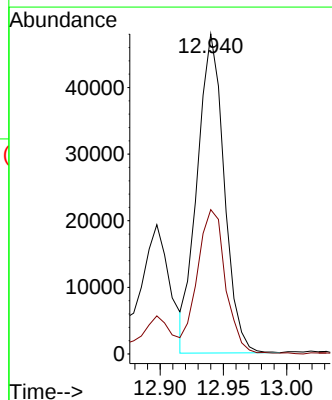
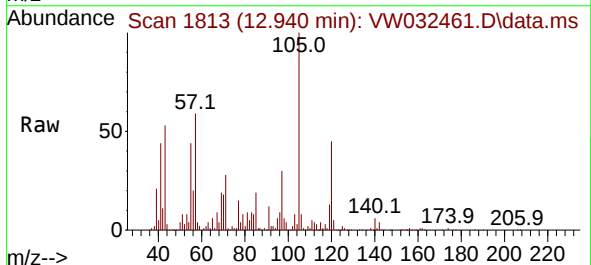
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

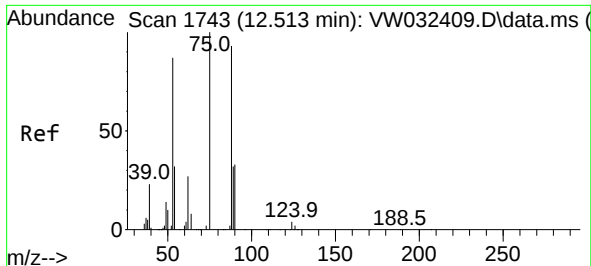
Tgt Ion: 75 Resp: 115740
Ion Ratio Lower Upper
75 100
77 1.4 151.6 454.8#



#80
1,3,5-Trimethylbenzene
Concen: 4.866 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 105 Resp: 70990
Ion Ratio Lower Upper
105 100
120 47.7 24.2 72.6

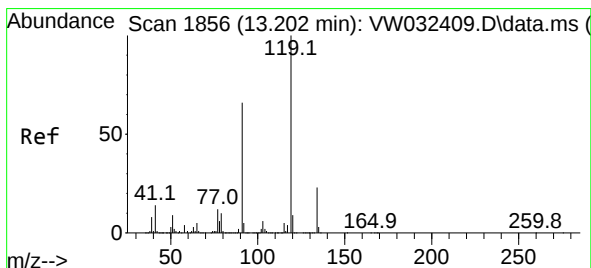
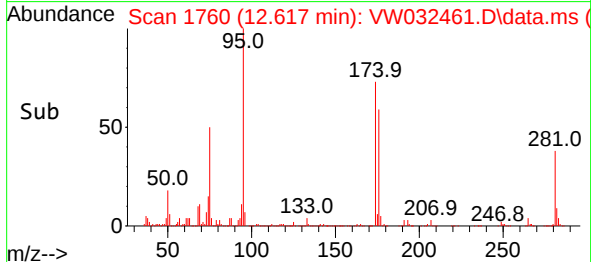
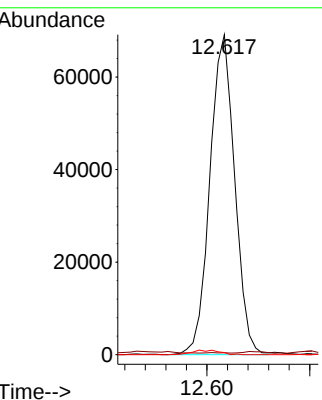
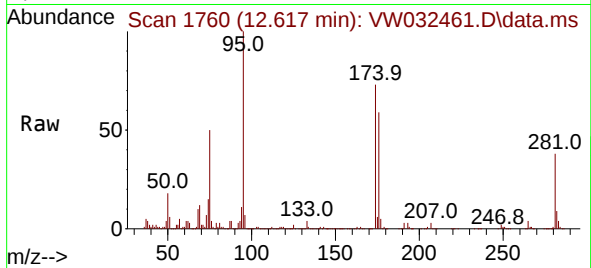




#81
trans-1,4-Dichloro-2-butene
Concen: 80.291 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.104 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

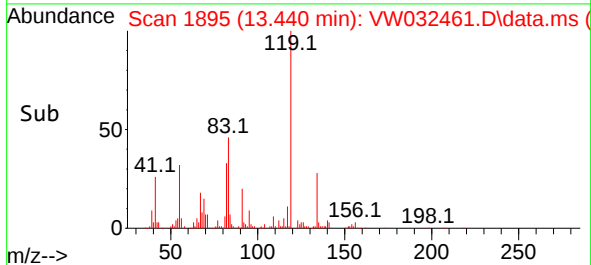
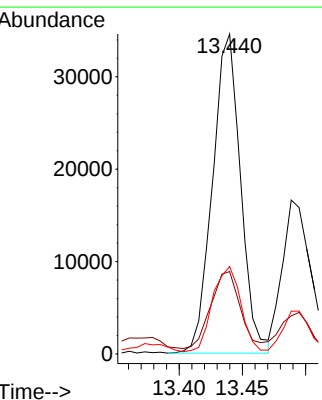
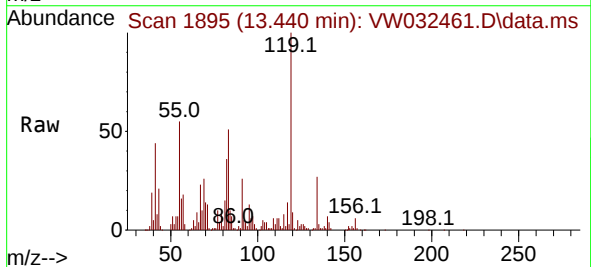
Instrument :
MSVOA_W
ClientSampleId :
SU-03-11142025

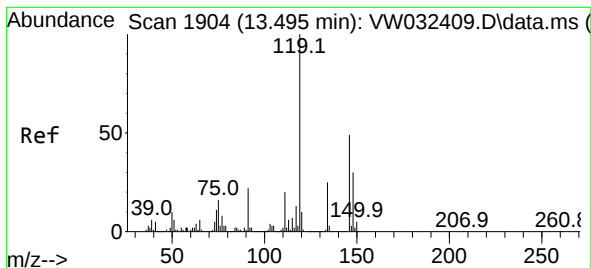
Tgt Ion: 75 Resp: 115740
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 35.6 53.4#



#83
tert-Butylbenzene
Concen: 4.200 ug/l
RT: 13.440 min Scan# 1895
Delta R.T. 0.238 min
Lab File: VW032461.D
Acq: 17 Nov 2025 16:23

Tgt Ion: 119 Resp: 53311
Ion Ratio Lower Upper
119 100
91 25.0 33.3 99.9#
134 26.7 12.2 36.4





#86

p-Isopropyltoluene

Concen: 1.603 ug/l

RT: 13.489 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

Instrument :

MSVOA_W

ClientSampleId :

SU-03-11142025

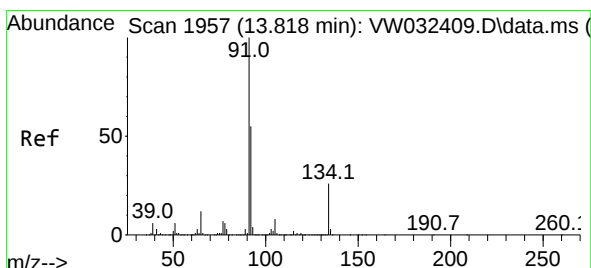
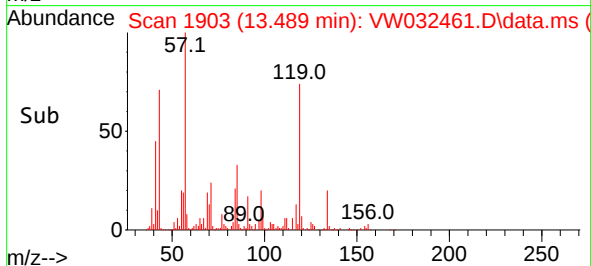
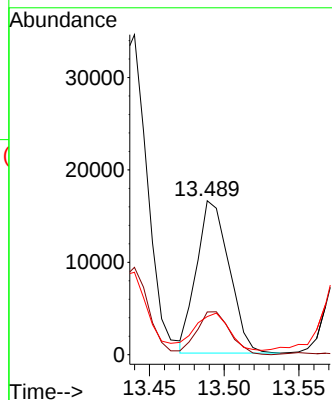
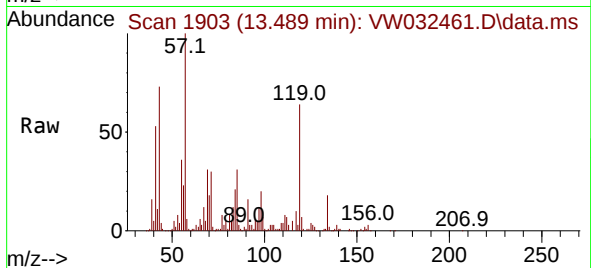
Tgt Ion:119 Resp: 25013

Ion Ratio Lower Upper

119 100

134 28.5 12.7 38.1

91 26.1 11.9 35.5



#89

n-Butylbenzene

Concen: 2.484 ug/l

RT: 13.781 min Scan# 1951

Delta R.T. -0.037 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

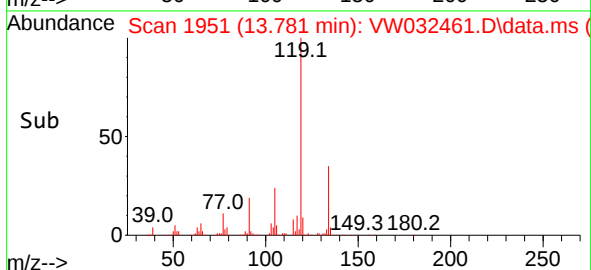
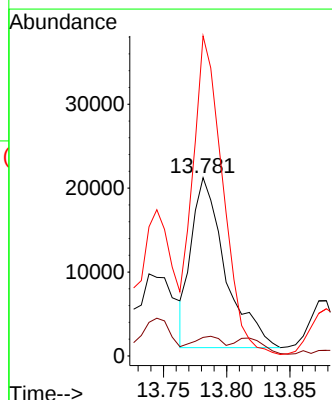
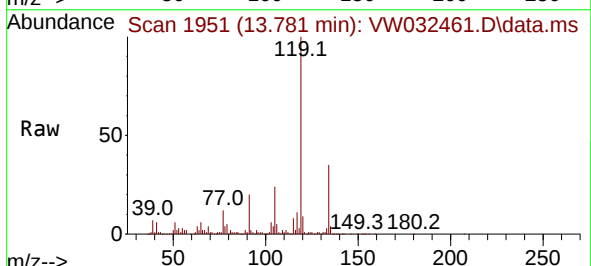
Tgt Ion: 91 Resp: 37874

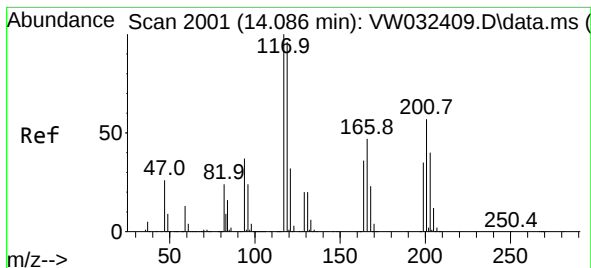
Ion Ratio Lower Upper

91 100

92 4.9 27.4 82.2#

134 164.9 12.4 37.4#





#90

Hexachloroethane

Concen: 5.891 ug/l

RT: 14.092 min Scan# 2001

Delta R.T. 0.006 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

Instrument :

MSVOA_W

ClientSampleId :

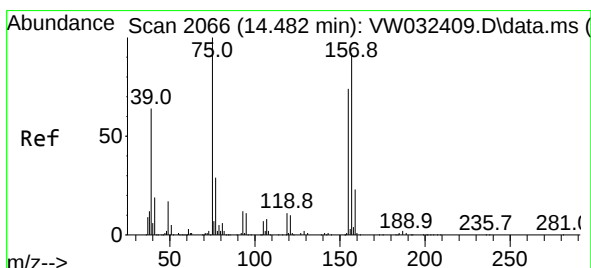
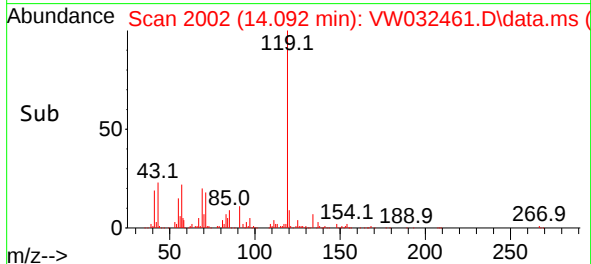
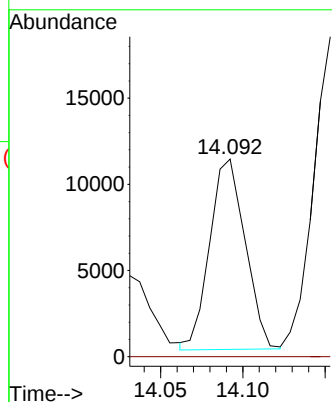
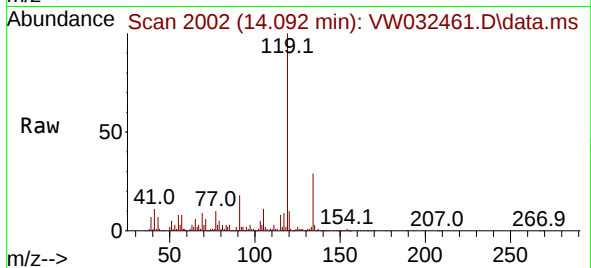
SU-03-11142025

Tgt Ion:117 Resp: 16577

Ion Ratio Lower Upper

117 100

201 0.0 32.0 96.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.196 ug/l

RT: 14.495 min Scan# 2068

Delta R.T. 0.012 min

Lab File: VW032461.D

Acq: 17 Nov 2025 16:23

Tgt Ion: 75 Resp: 865

Ion Ratio Lower Upper

75 100

155 60.0 36.2 108.6

157 10.6 47.8 143.3#

