

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032502.D
 Acq On : 19 Nov 2025 15:04
 Operator : SY/MD
 Sample : Q3664-05
 Misc : 5.03g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 291399

Quant Time: Nov 20 01:19:40 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)

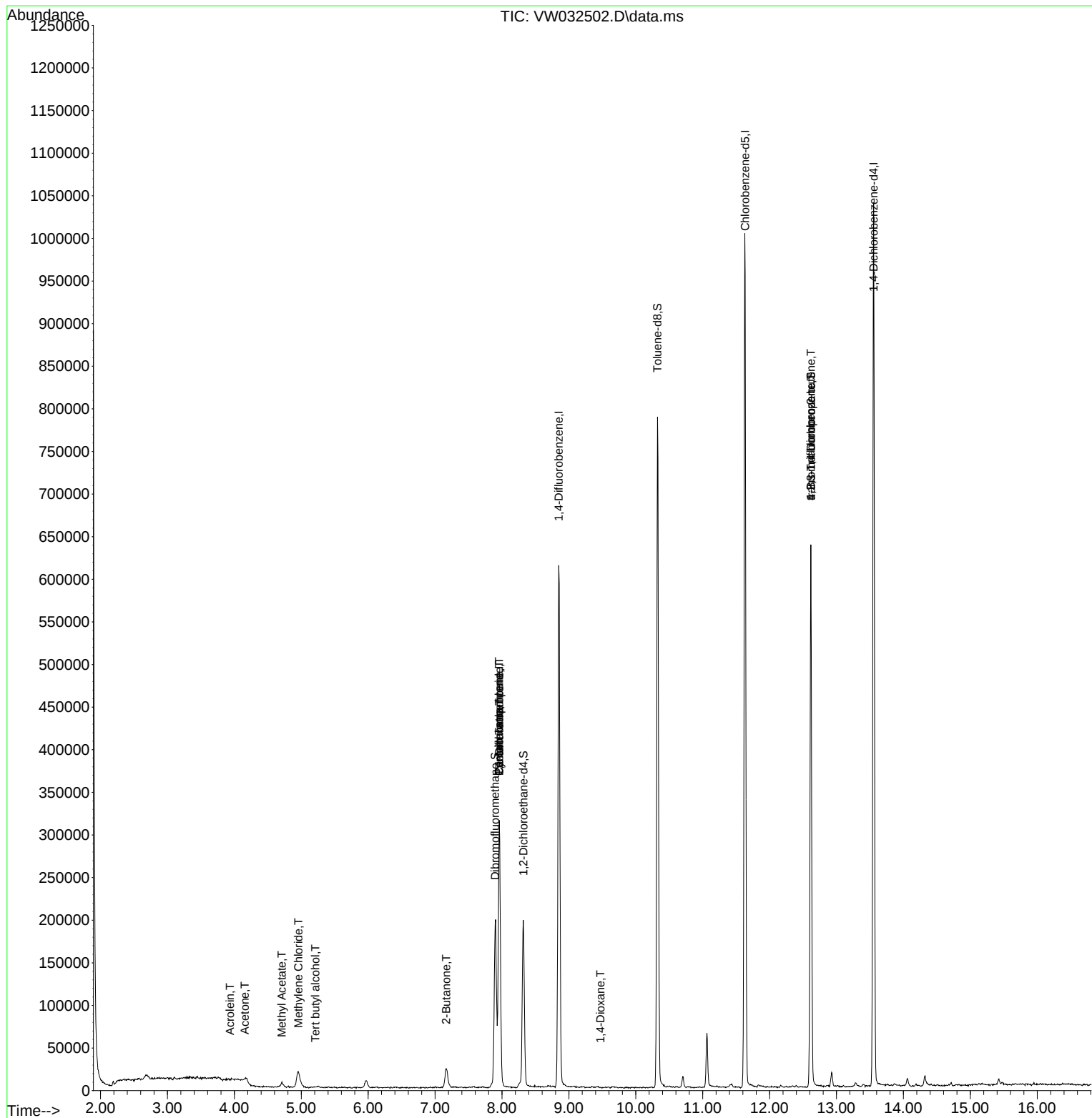
Internal Standards						
1) Pentafluorobenzene	7.959	168	212391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	512499	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	549299	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	263552	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	156992	57.333	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 114.660%			
35) Dibromofluoromethane	7.898	113	147383	48.032	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 96.060%			
50) Toluene-d8	10.325	98	509100	43.248	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 86.500%			
62) 4-Bromofluorobenzene	12.617	95	228871	51.468	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 102.940%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.210	59	906	3.826	ug/l #	43
13) Acrolein	3.936	56	466	1.173	ug/l #	37
16) Acetone	4.155	43	831	1.014	ug/l #	79
18) Methyl Acetate	4.710	43	10112	4.985	ug/l #	82
20) Methylene Chloride	4.960	84	16446	5.614	ug/l	94
25) 2-Butanone	7.167	43	1844	1.528	ug/l #	61
31) Cyclohexane	7.959	56	5764	1.272	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	19299	4.269	ug/l #	50
38) Carbon Tetrachloride	7.959	117	23129	5.758	ug/l #	17
49) 1,4-Dioxane	9.471	88	34	1.146	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	113062	31.287	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	113062	71.660	ug/l #	11

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

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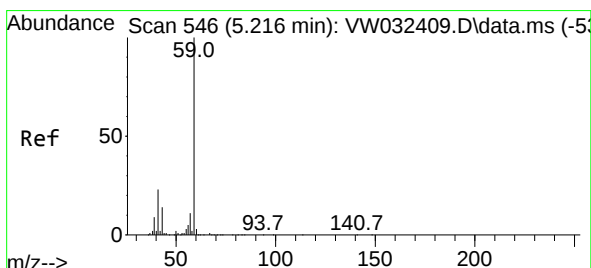
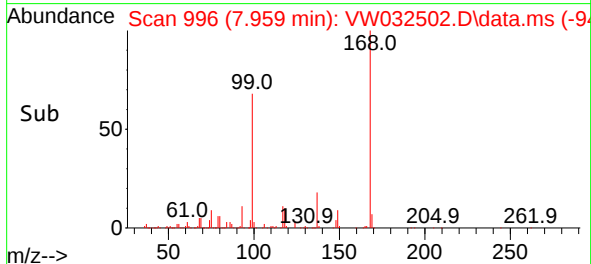
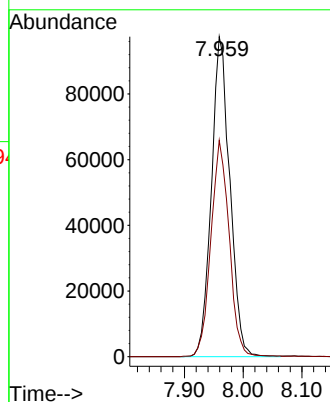
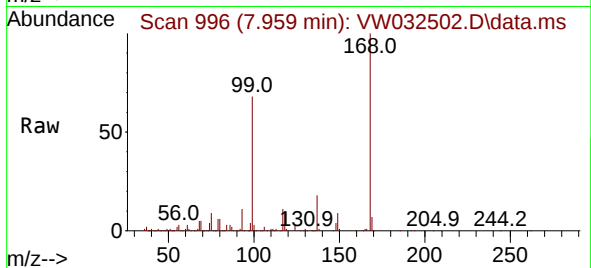




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

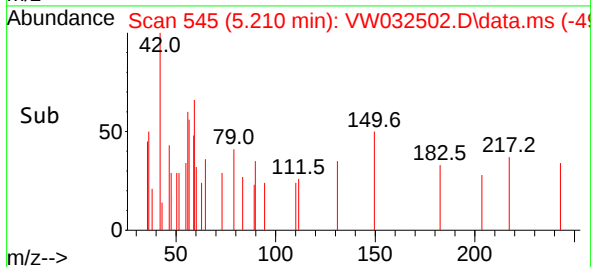
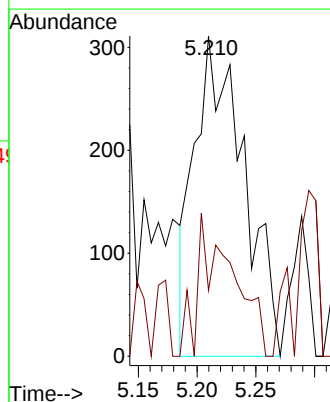
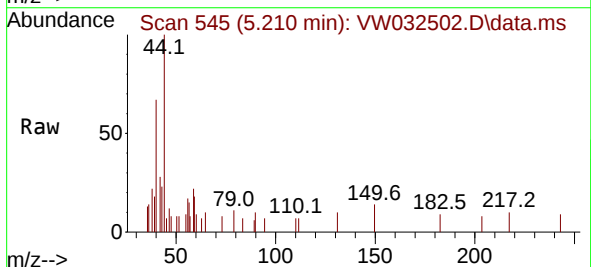
Instrument :
MSVOA_W
ClientSampleId :
291399

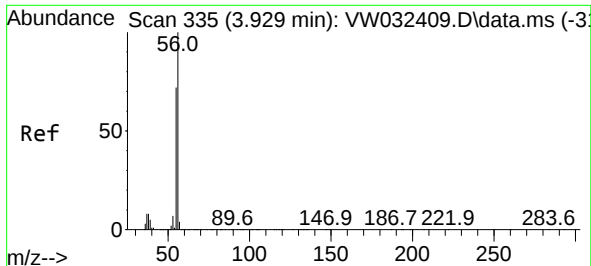
Tgt Ion:168 Resp: 212391
Ion Ratio Lower Upper
168 100
99 67.6 45.4 68.2



#11
Tert butyl alcohol
Concen: 3.826 ug/l
RT: 5.210 min Scan# 545
Delta R.T. -0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 59 Resp: 906
Ion Ratio Lower Upper
59 100
57 32.3 8.6 12.8#

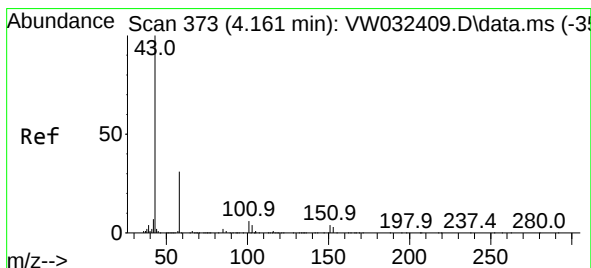
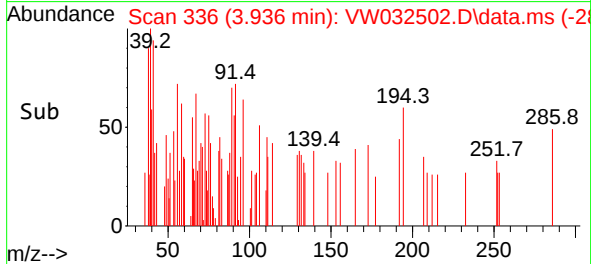
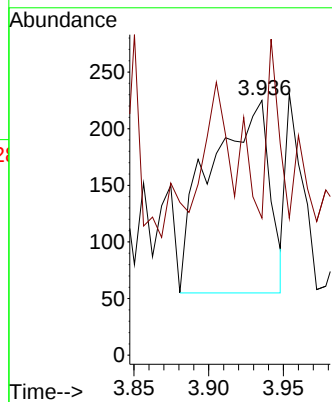
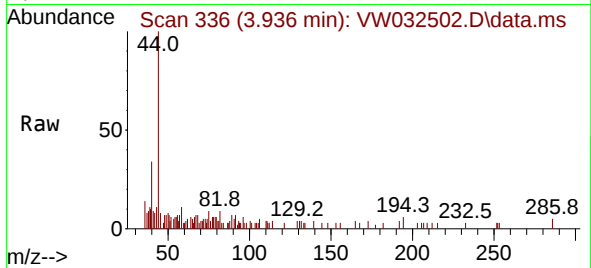




#13
Acrolein
Concen: 1.173 ug/l
RT: 3.936 min Scan# 31
Delta R.T. 0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

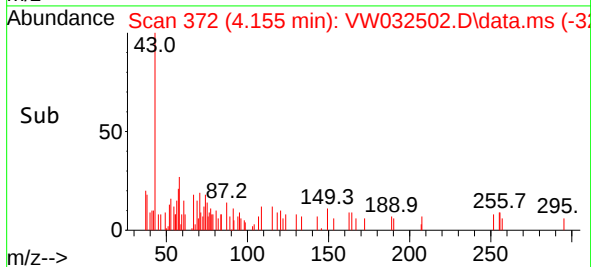
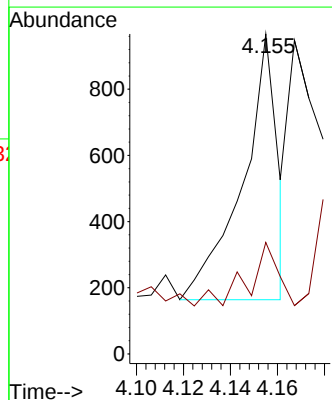
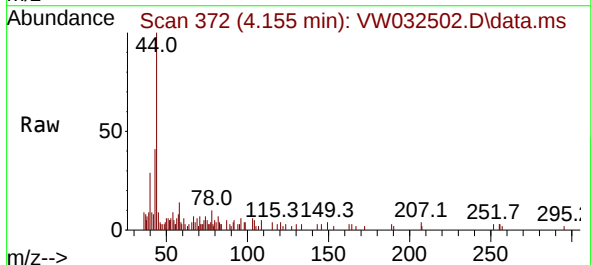
Instrument :
MSVOA_W
ClientSampleId :
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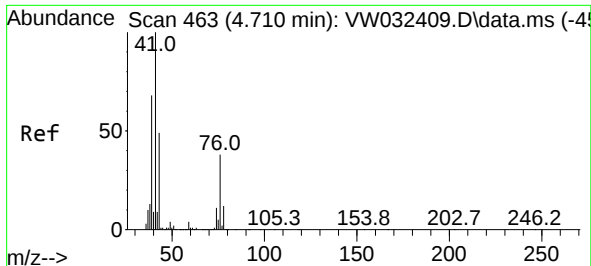
Tgt Ion: 56 Resp: 466
Ion Ratio Lower Upper
56 100
55 18.5 56.3 84.5#



#16
Acetone
Concen: 1.014 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 43 Resp: 831
Ion Ratio Lower Upper
43 100
58 19.3 24.8 37.2#

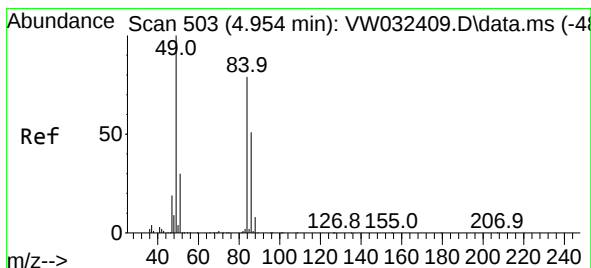
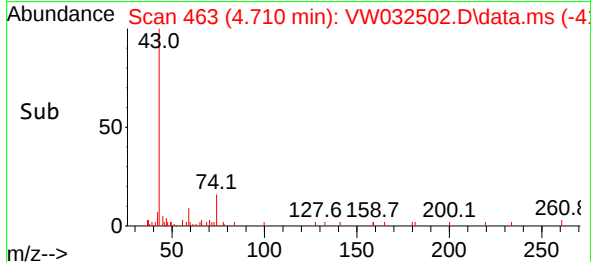
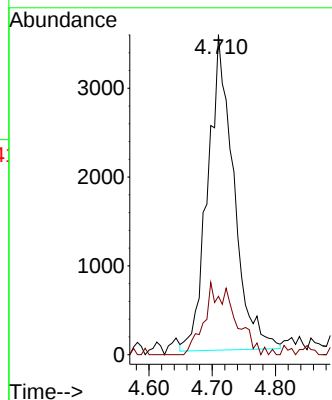
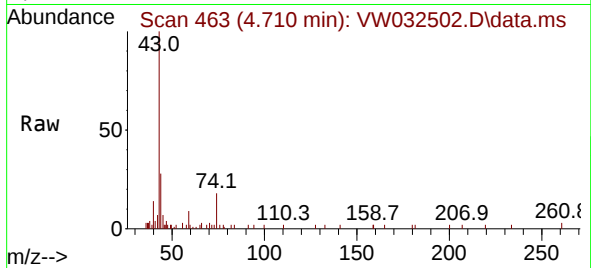




#18
Methyl Acetate
Concen: 4.985 ug/l
RT: 4.710 min Scan# 410
Delta R.T. 0.000 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

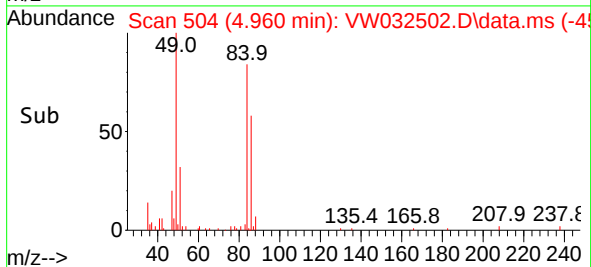
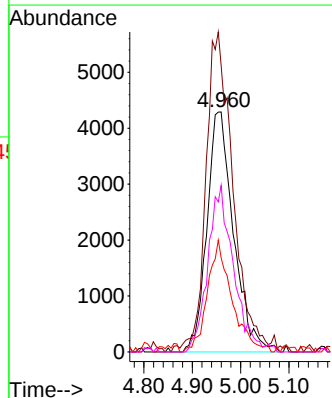
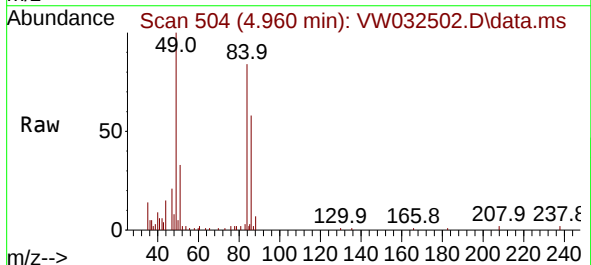
Instrument :
MSVOA_W
ClientSampleId :
291399

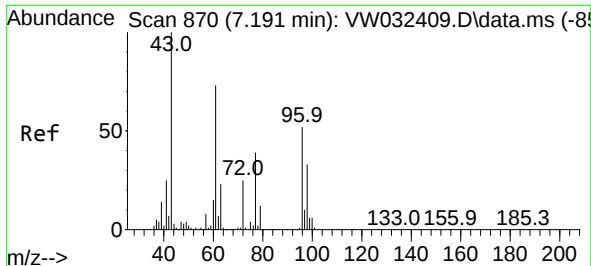
Tgt Ion: 43 Resp: 10112
Ion Ratio Lower Upper
43 100
74 14.7 18.9 28.3#



#20
Methylene Chloride
Concen: 5.614 ug/l
RT: 4.960 min Scan# 504
Delta R.T. 0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 84 Resp: 16446
Ion Ratio Lower Upper
84 100
49 117.7 101.5 152.3
51 39.2 30.6 46.0
86 69.4 51.9 77.9

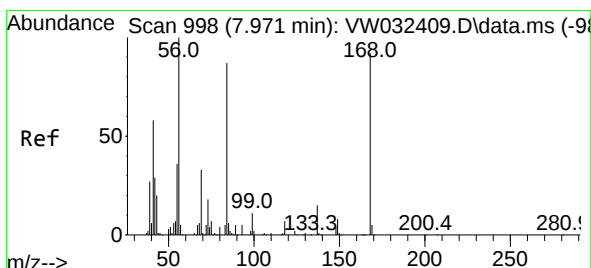
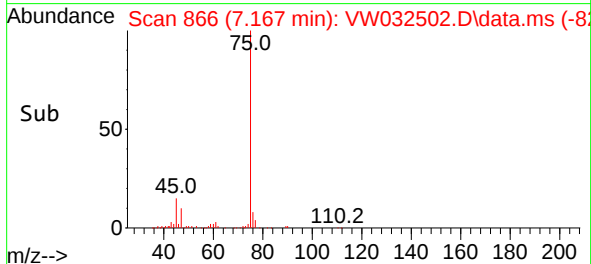
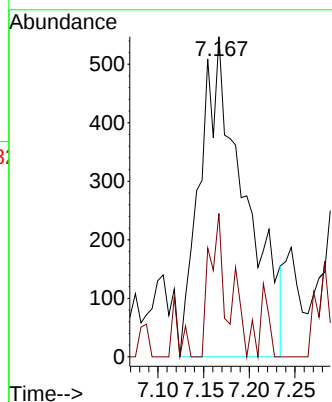
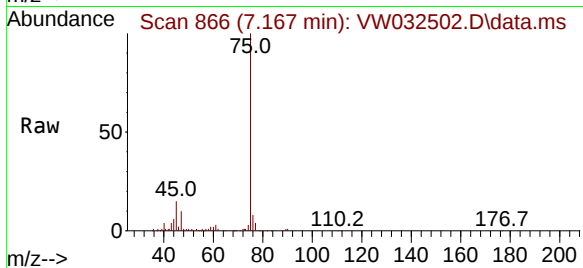




#25
2-Butanone
Concen: 1.528 ug/l
RT: 7.167 min Scan# 866
Delta R.T. -0.024 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

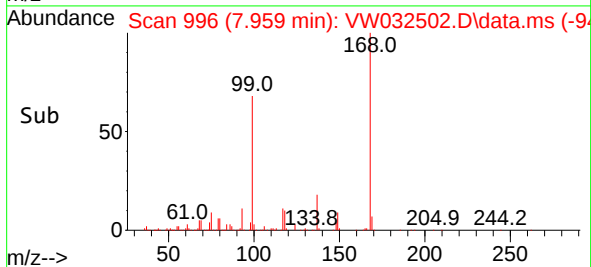
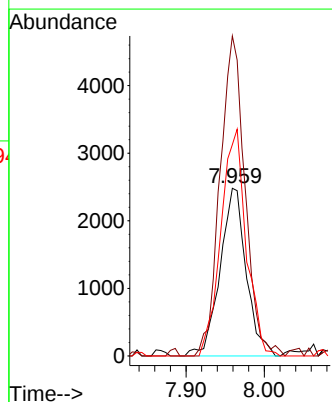
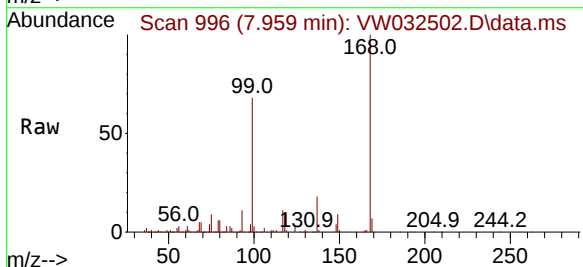
Instrument :
MSVOA_W
ClientSampleId :
291399

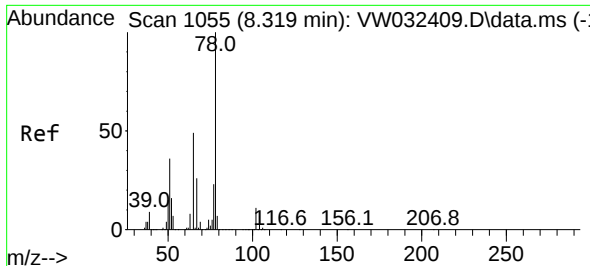
Tgt Ion: 43 Resp: 1844
Ion Ratio Lower Upper
43 100
72 44.8 20.0 30.0#



#31
Cyclohexane
Concen: 1.272 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 56 Resp: 5764
Ion Ratio Lower Upper
56 100
69 190.9 26.5 39.7#
84 126.0 69.6 104.4#

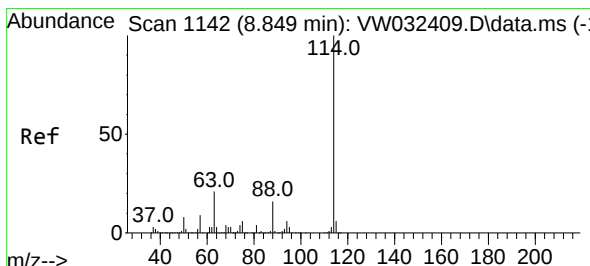
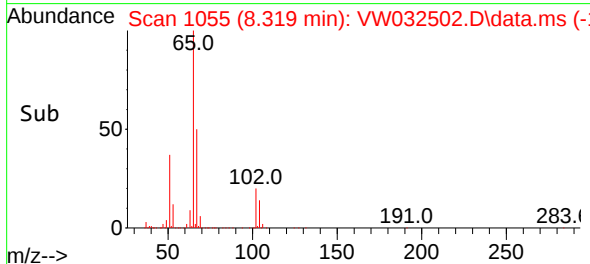
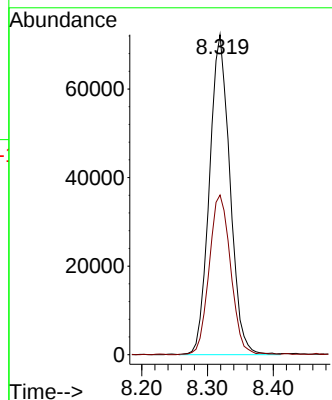
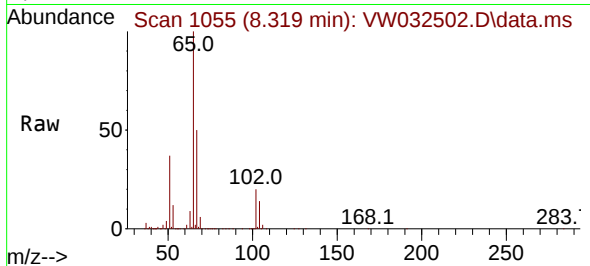




#33
 1,2-Dichloroethane-d4
 Concen: 57.333 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032502.D
 Acq: 19 Nov 2025 15:04

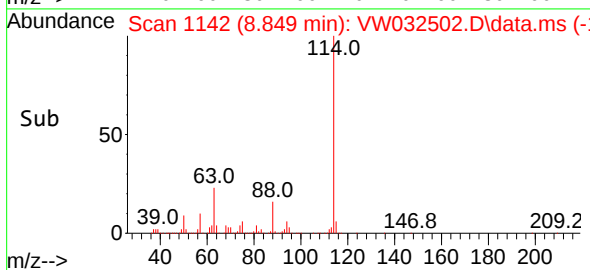
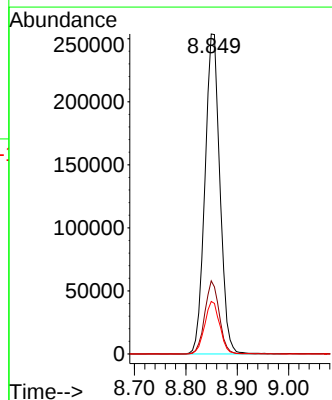
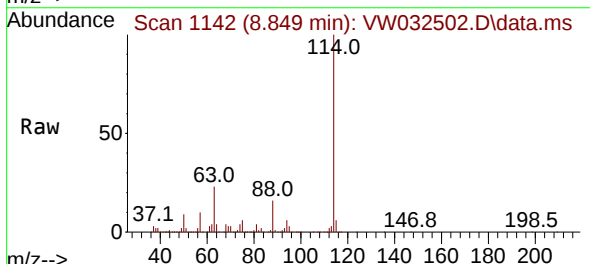
Instrument :
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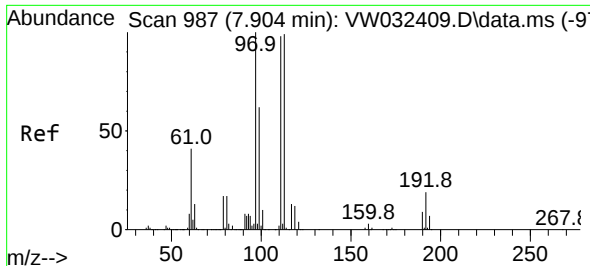
Tgt Ion: 65 Resp: 156992
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032502.D
 Acq: 19 Nov 2025 15:04

Tgt Ion: 114 Resp: 512499
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 41.8
 88 16.4 0.0 32.6

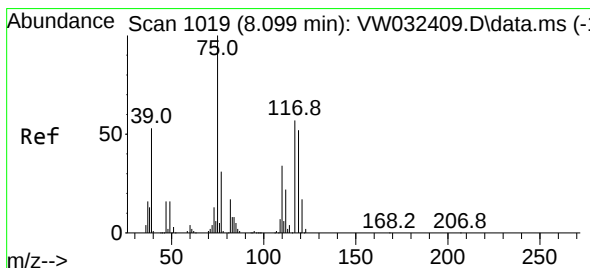
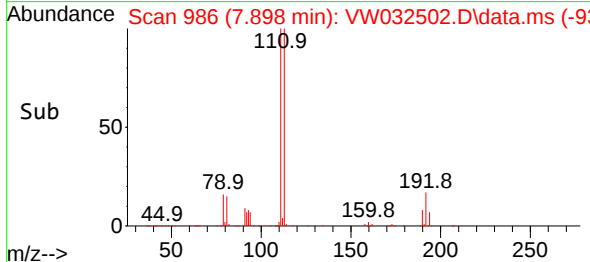
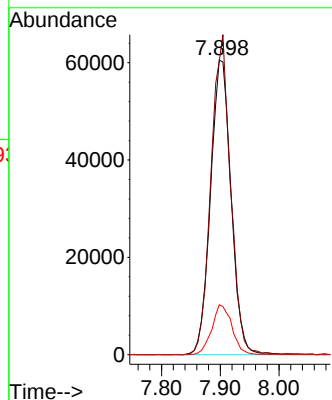
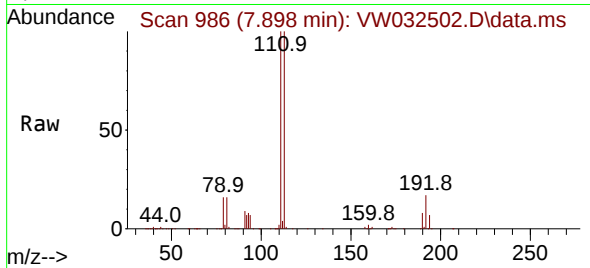




#35
Dibromofluoromethane
Concen: 48.032 ug/l
RT: 7.898 min Scan# 91
Delta R.T. -0.006 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

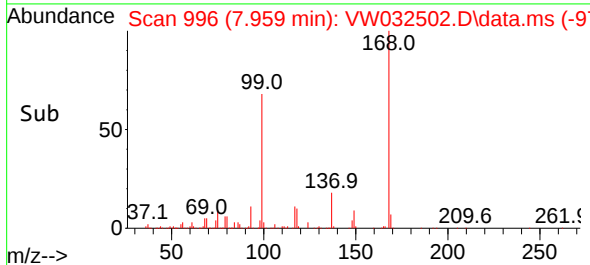
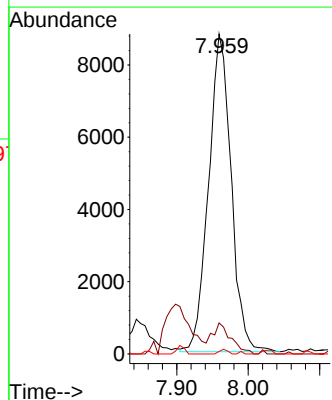
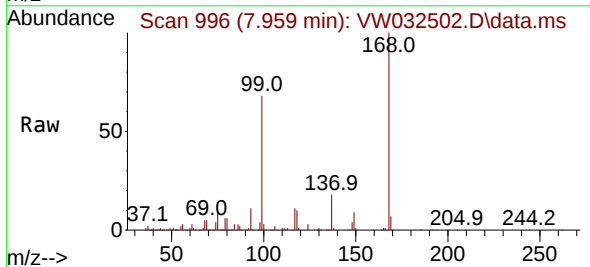
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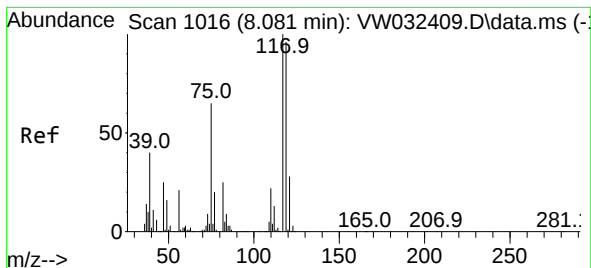
Tgt Ion:113 Resp: 147383
Ion Ratio Lower Upper
113 100
111 103.1 83.1 124.7
192 16.6 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.269 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 75 Resp: 19299
Ion Ratio Lower Upper
75 100
110 8.0 17.2 51.5#
77 0.5 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.758 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.122 min

Lab File: VW032502.D

Acq: 19 Nov 2025 15:04

Instrument :

MSVOA_W

ClientSampleId :

291399

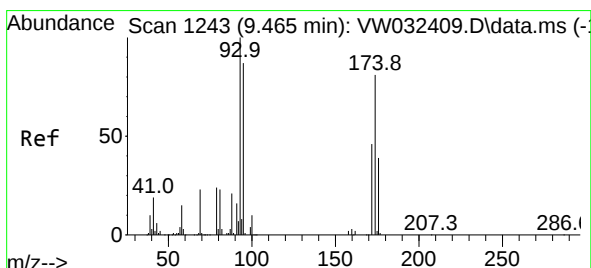
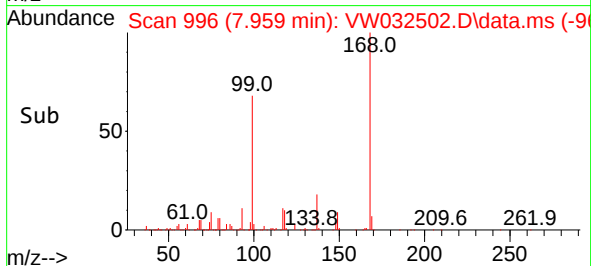
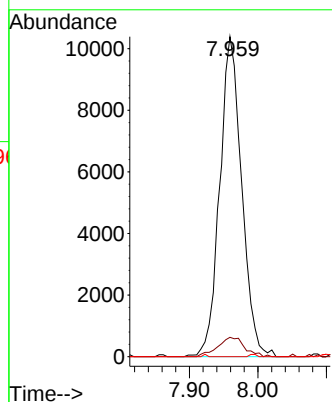
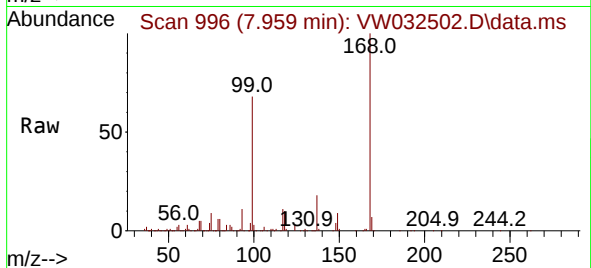
Tgt Ion:117 Resp: 23129

Ion Ratio Lower Upper

117 100

119 6.1 77.0 115.4#

121 0.0 22.0 33.0#



#49

1,4-Dioxane

Concen: 1.146 ug/l

RT: 9.471 min Scan# 1244

Delta R.T. 0.006 min

Lab File: VW032502.D

Acq: 19 Nov 2025 15:04

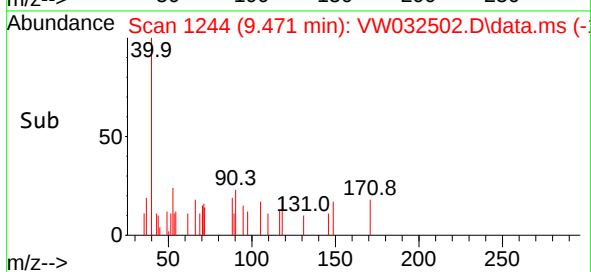
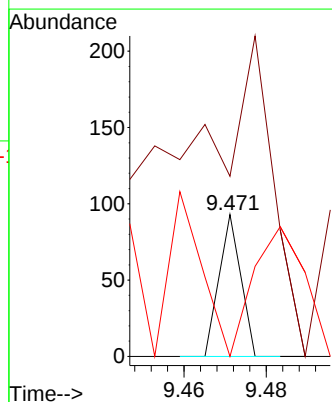
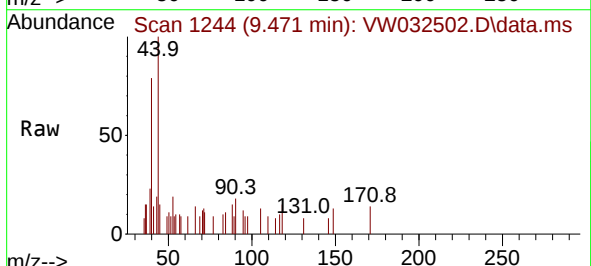
Tgt Ion: 88 Resp: 34

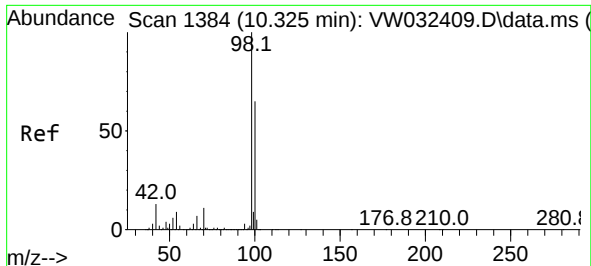
Ion Ratio Lower Upper

88 100

43 1252.9 0.0 0.0#

58 214.7 63.0 94.4#

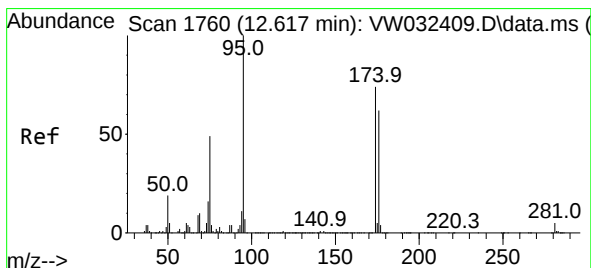
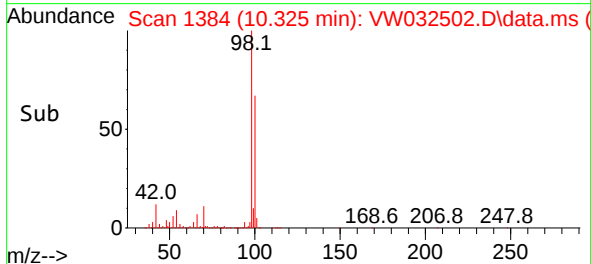
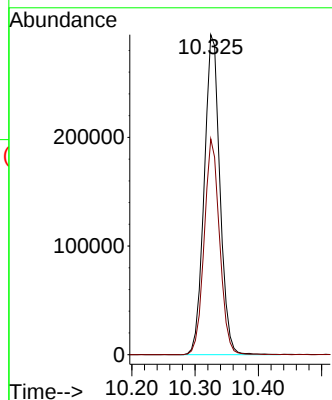
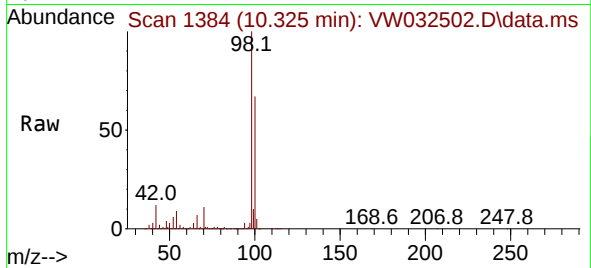




#50
Toluene-d8
Concen: 43.248 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

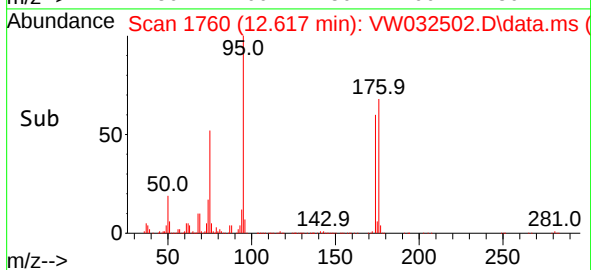
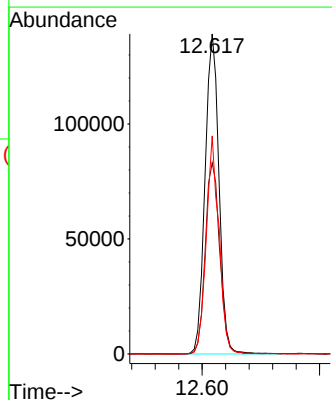
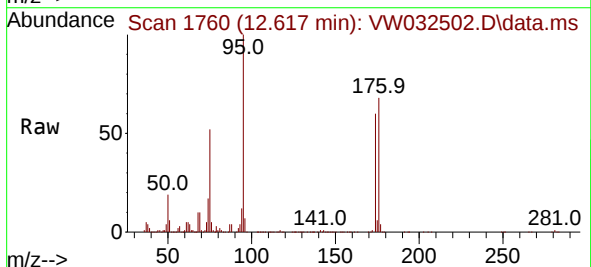
Instrument :
MSVOA_W
ClientSampleId :
291399

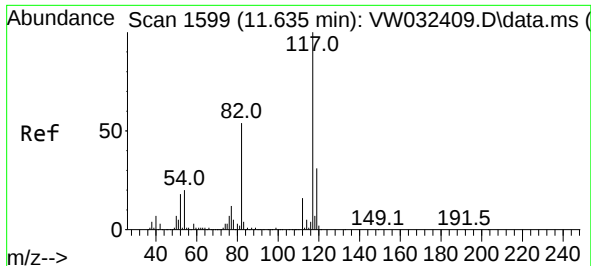
Tgt Ion: 98 Resp: 509100
Ion Ratio Lower Upper
98 100
100 66.1 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 51.468 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion: 95 Resp: 228871
Ion Ratio Lower Upper
95 100
174 62.2 0.0 135.4
176 62.2 0.0 131.8

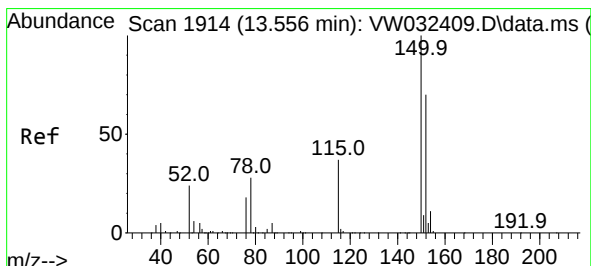
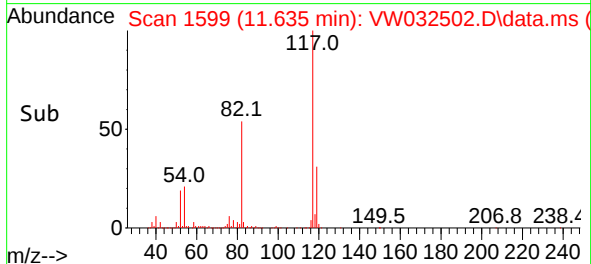
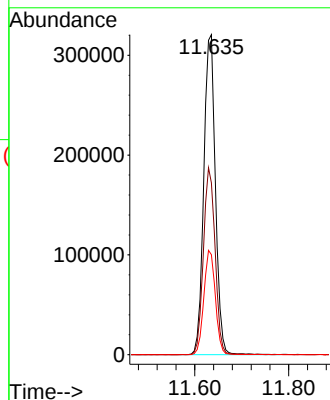
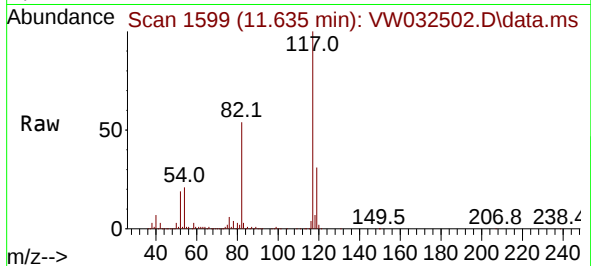




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

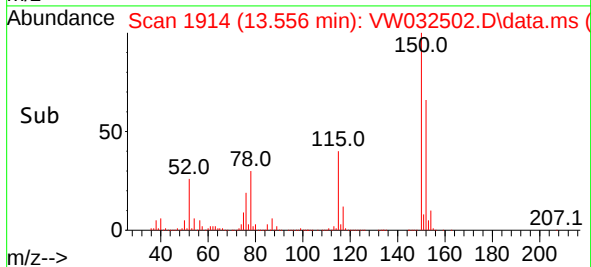
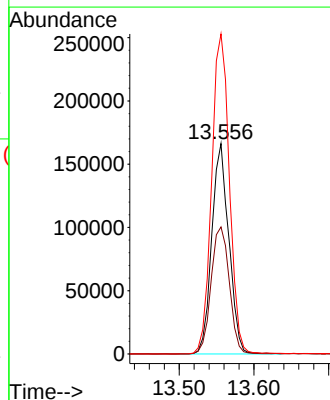
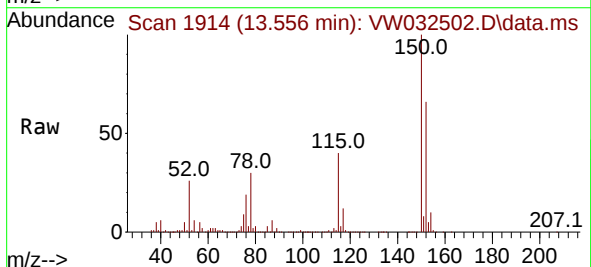
Instrument :
MSVOA_W
ClientSampleId :
291399

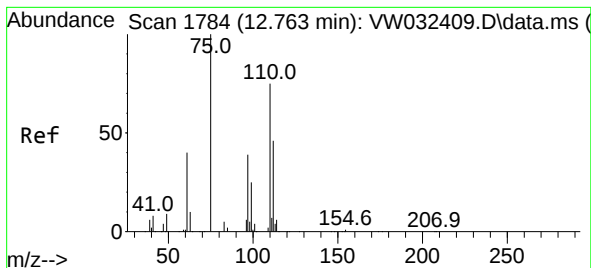
Tgt Ion:117 Resp: 549299
Ion Ratio Lower Upper
117 100
82 53.7 43.0 64.4
119 31.3 25.0 37.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032502.D
Acq: 19 Nov 2025 15:04

Tgt Ion:152 Resp: 263552
Ion Ratio Lower Upper
152 100
115 64.4 32.8 98.3
150 158.0 0.0 356.6





#76

1,2,3-Trichloropropane

Concen: 31.287 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032502.D

Acq: 19 Nov 2025 15:04

Instrument :

MSVOA_W

ClientSampleId :

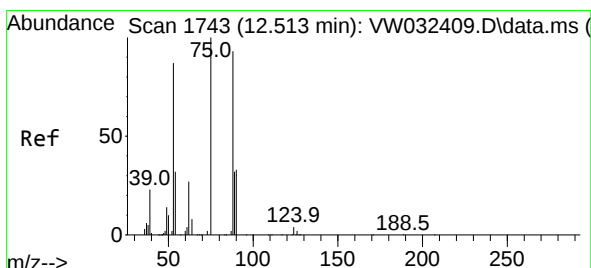
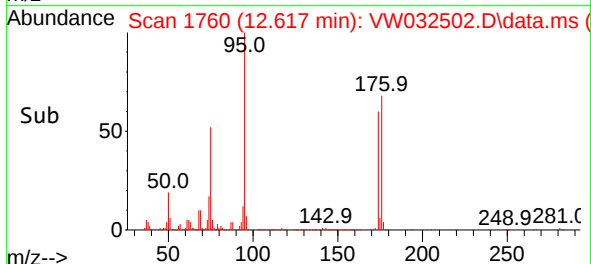
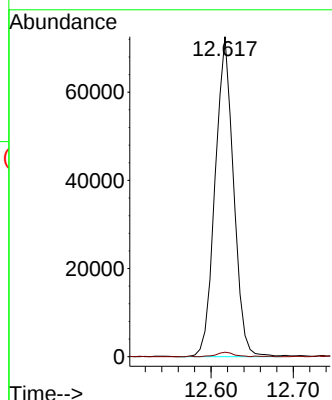
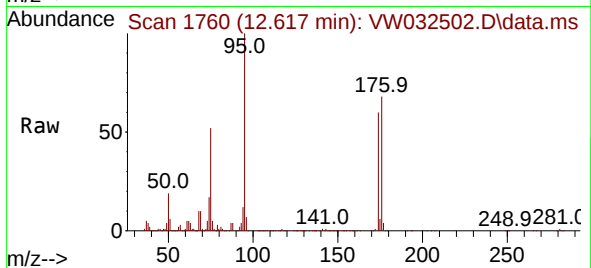
291399

Tgt Ion: 75 Resp: 113062

Ion Ratio Lower Upper

75 100

77 1.3 151.6 454.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 71.660 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. 0.104 min

Lab File: VW032502.D

Acq: 19 Nov 2025 15:04

Tgt Ion: 75 Resp: 113062

Ion Ratio Lower Upper

75 100

53 0.3 77.8 116.8#

89 0.1 35.6 53.4#

