

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032501.D
 Acq On : 19 Nov 2025 14:42
 Operator : SY/MD
 Sample : Q3664-03
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0013

Quant Time: Nov 20 01:19:20 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)

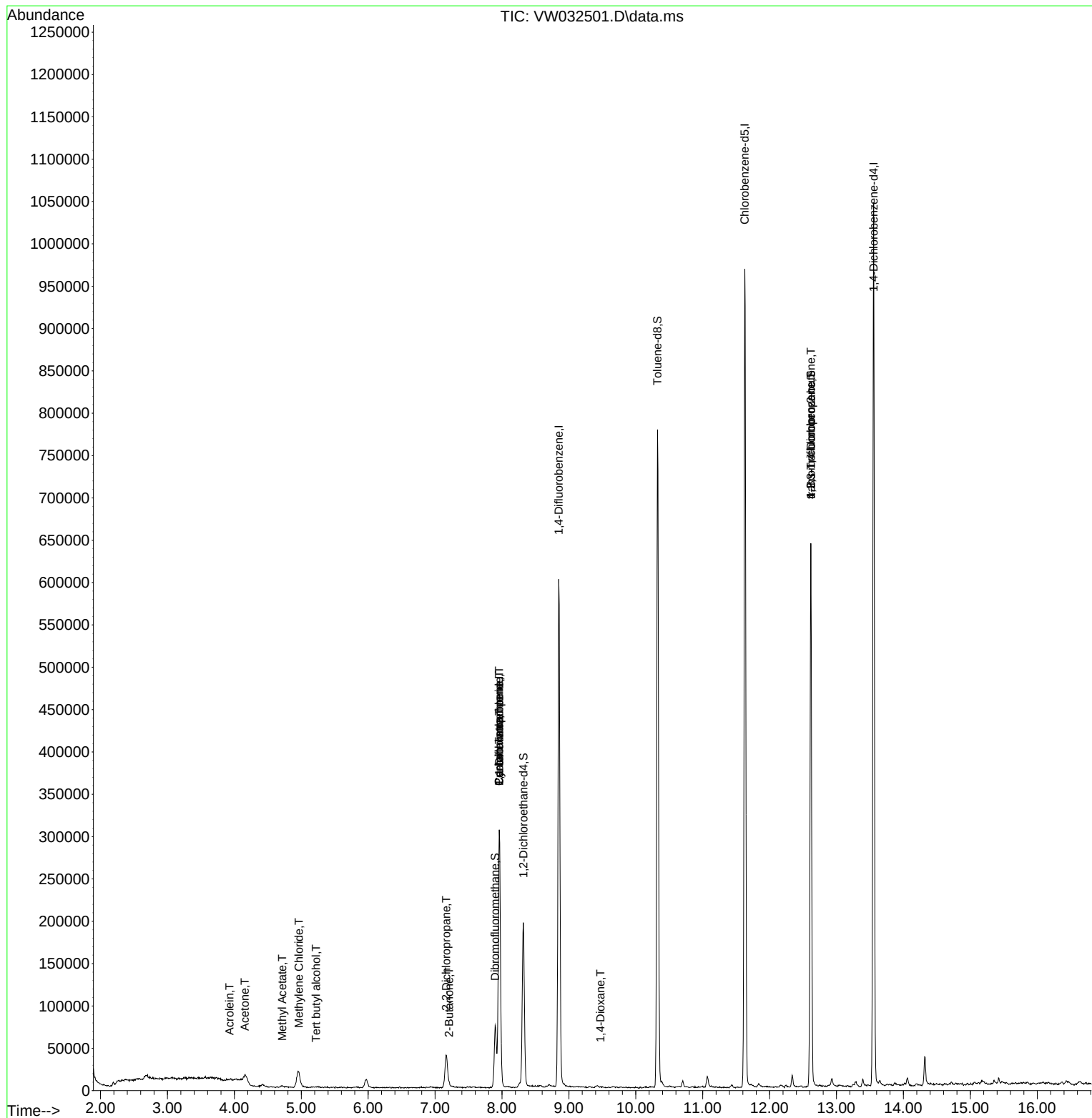
Internal Standards						
1) Pentafluorobenzene	7.959	168	214567	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	499742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	523165	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	255703	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	155178	56.096	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 112.200%			
35) Dibromofluoromethane	7.898	113	56454	18.868	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 37.740%#			
50) Toluene-d8	10.325	98	517013	45.041	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 90.080%			
62) 4-Bromofluorobenzene	12.617	95	226465	52.227	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 104.460%			
Target Compounds						Qvalue
11) Tert butyl alcohol	5.222	59	396	1.656	ug/l #	32
13) Acrolein	3.930	56	519	1.293	ug/l #	14
16) Acetone	4.155	43	10878	13.144	ug/l	96
18) Methyl Acetate	4.716	43	3967	1.936	ug/l	91
20) Methylene Chloride	4.966	84	16587	5.604	ug/l	91
25) 2-Butanone	7.209	43	1438	1.179	ug/l #	78
26) 2,2-Dichloropropane	7.167	77	2877	1.043	ug/l #	51
31) Cyclohexane	7.959	56	5262	1.150	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	19638	4.455	ug/l #	52
38) Carbon Tetrachloride	7.959	117	22179	5.662	ug/l #	17
49) 1,4-Dioxane	9.471	88	53	1.831	ug/l #	10
76) 1,2,3-Trichloropropane	12.617	75	111305	31.746	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	111305	72.712	ug/l #	11

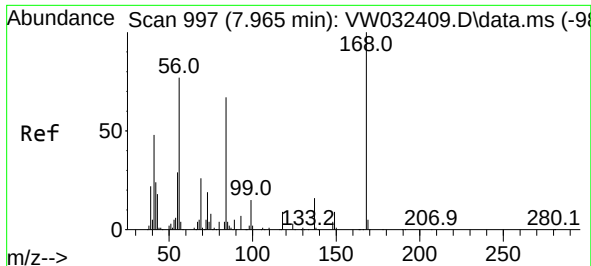
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 20 01:19:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
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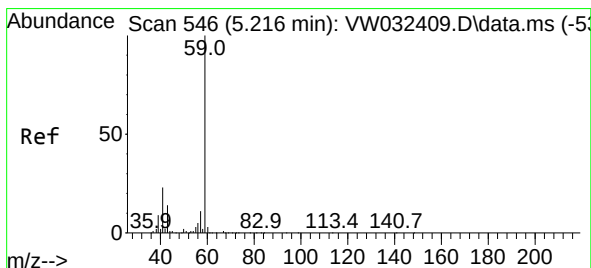
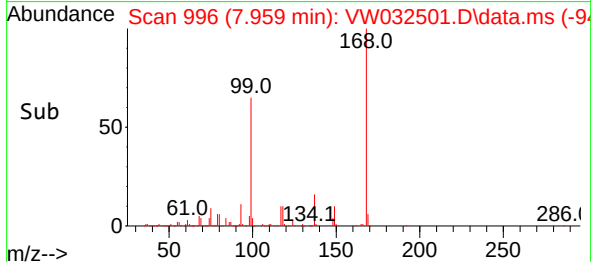
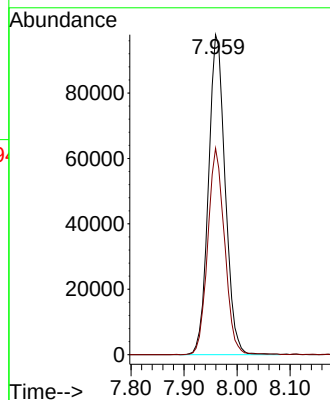
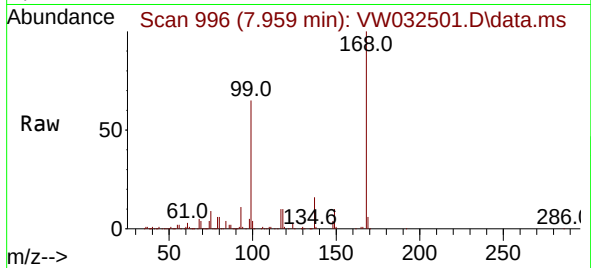




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

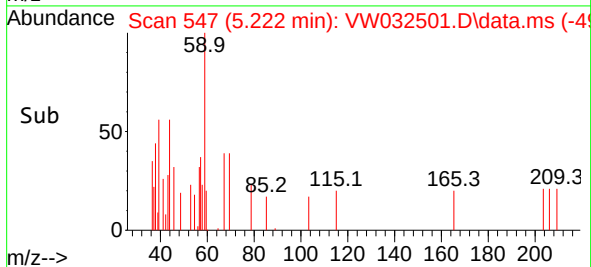
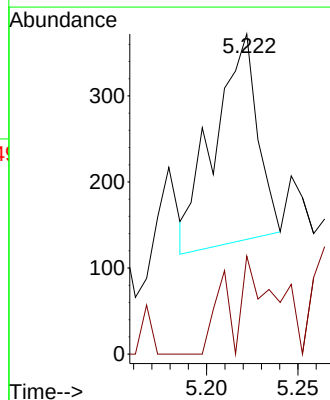
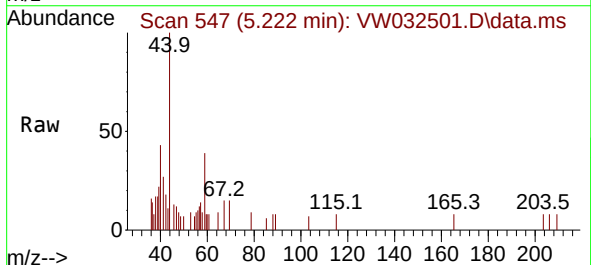
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0013

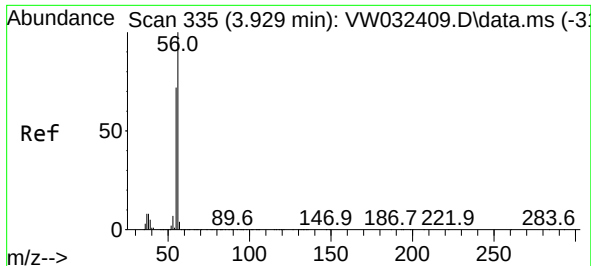
Tgt Ion:168 Resp: 214567
Ion Ratio Lower Upper
168 100
99 64.5 45.4 68.2



#11
Tert butyl alcohol
Concen: 1.656 ug/l
RT: 5.222 min Scan# 547
Delta R.T. 0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 59 Resp: 396
Ion Ratio Lower Upper
59 100
57 36.4 8.6 12.8#

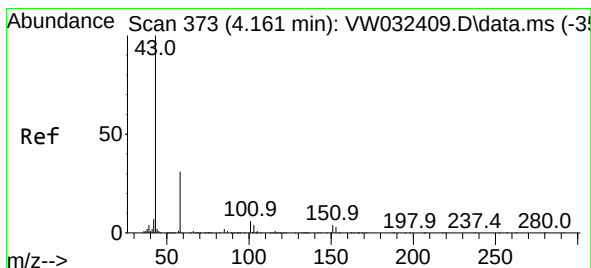
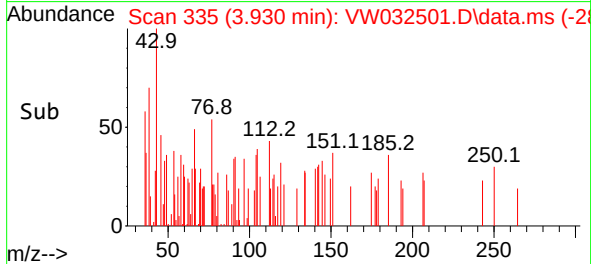
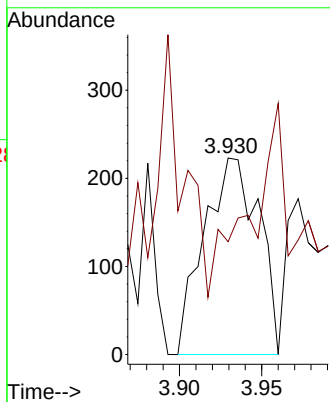
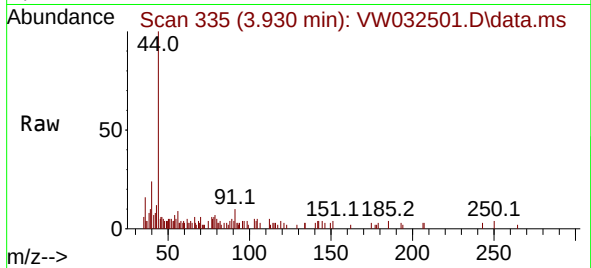




#13
Acrolein
Concen: 1.293 ug/l
RT: 3.930 min Scan# 31
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

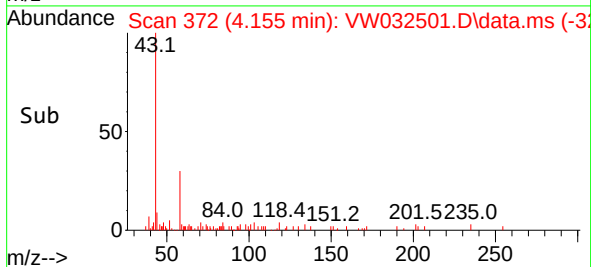
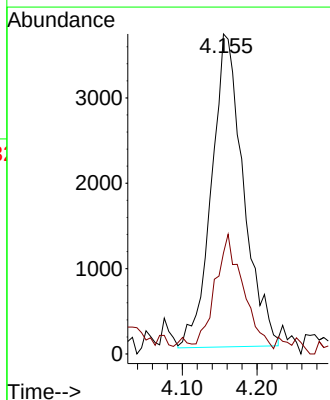
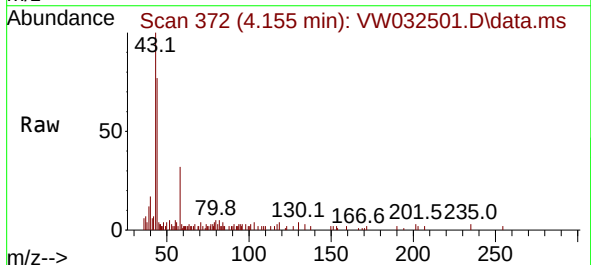
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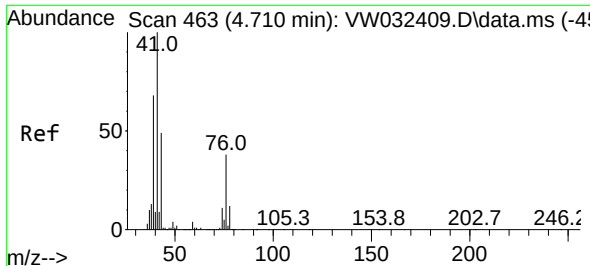
Tgt Ion: 56 Resp: 519
Ion Ratio Lower Upper
56 100
55 0.0 56.3 84.5#



#16
Acetone
Concen: 13.144 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 43 Resp: 10878
Ion Ratio Lower Upper
43 100
58 28.8 24.8 37.2

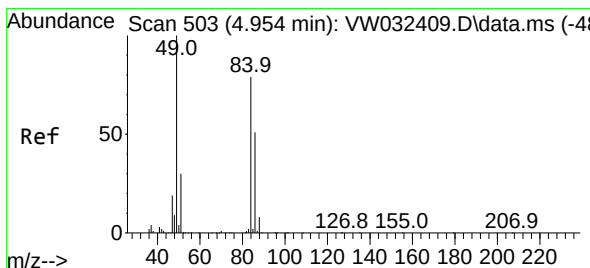
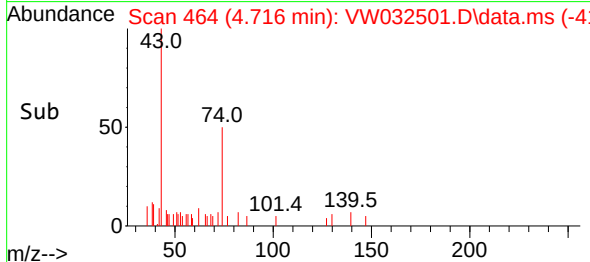
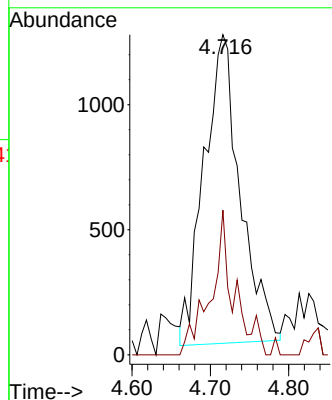
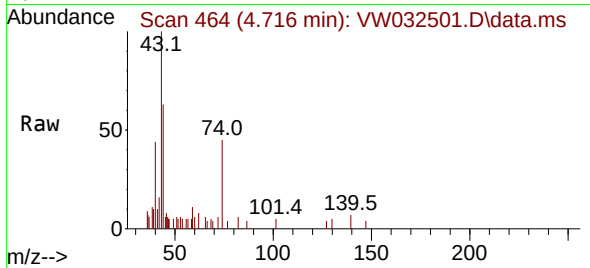




#18
Methyl Acetate
Concen: 1.936 ug/l
RT: 4.716 min Scan# 4
Delta R.T. 0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

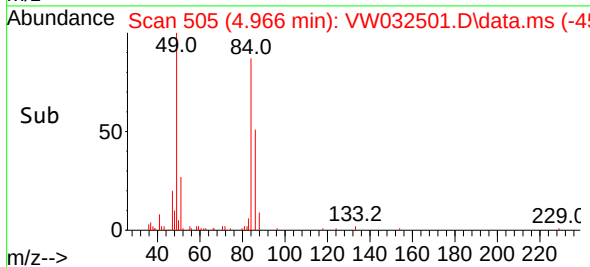
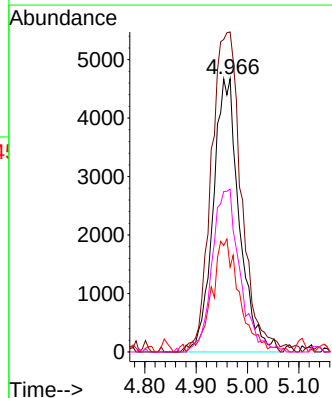
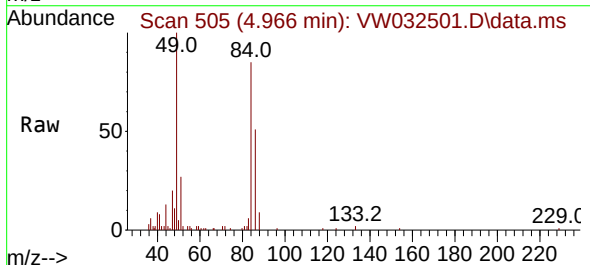
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0013

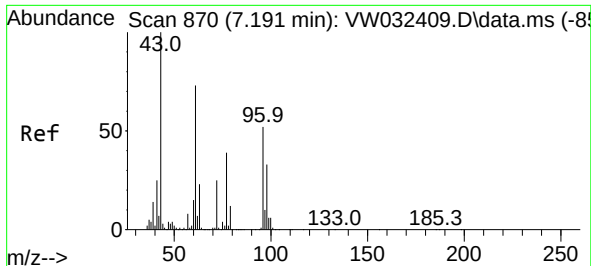
Tgt Ion: 43 Resp: 3967
Ion Ratio Lower Upper
43 100
74 28.0 18.9 28.3



#20
Methylene Chloride
Concen: 5.604 ug/l
RT: 4.966 min Scan# 505
Delta R.T. 0.012 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 84 Resp: 16587
Ion Ratio Lower Upper
84 100
49 117.1 101.5 152.3
51 31.0 30.6 46.0
86 59.5 51.9 77.9

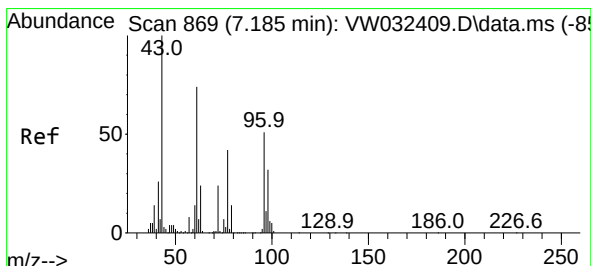
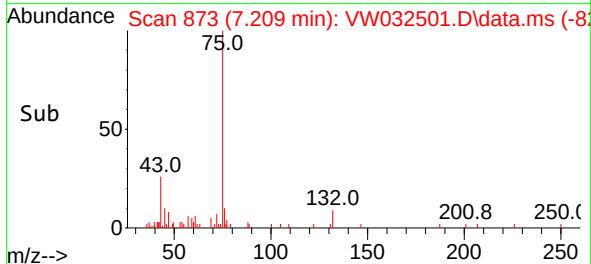
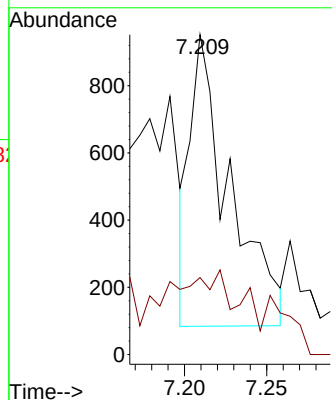
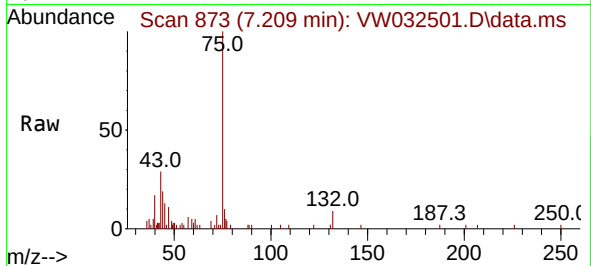




#25
2-Butanone
Concen: 1.179 ug/l
RT: 7.209 min Scan# 81
Delta R.T. 0.018 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

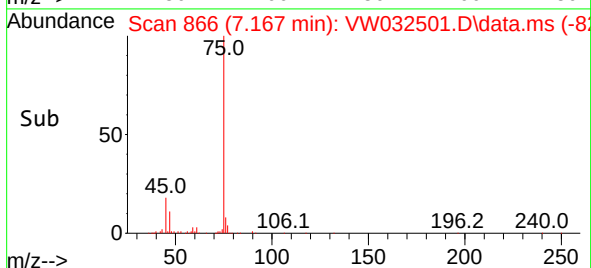
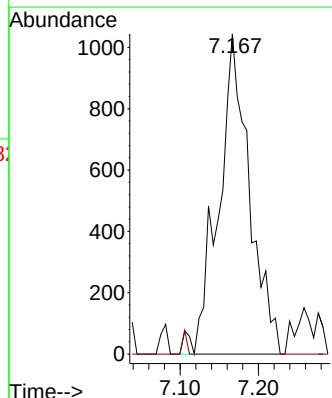
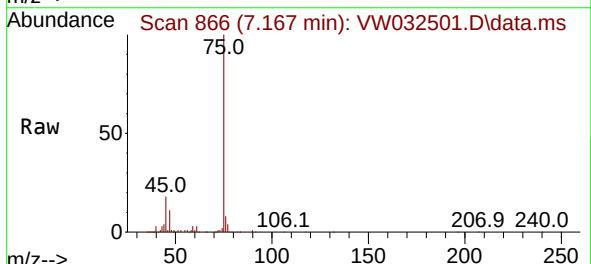
Instrument :
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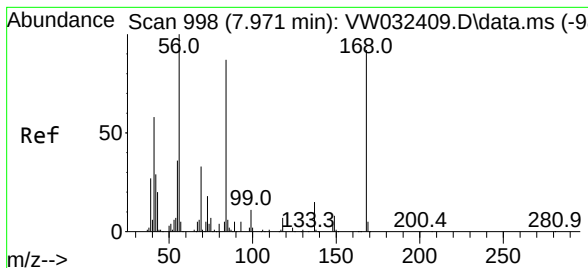
Tgt Ion: 43 Resp: 1438
Ion Ratio Lower Upper
43 100
72 13.9 20.0 30.0#



#26
2,2-Dichloropropane
Concen: 1.043 ug/l
RT: 7.167 min Scan# 866
Delta R.T. -0.018 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 77 Resp: 2877
Ion Ratio Lower Upper
77 100
97 0.0 12.3 36.8#

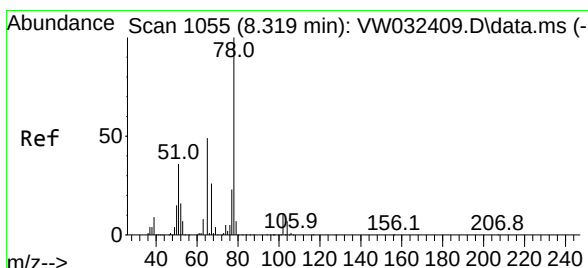
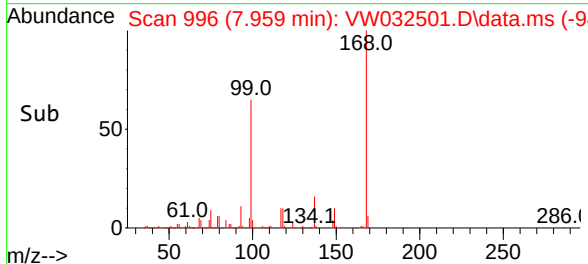
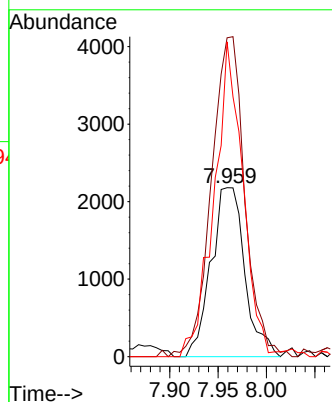
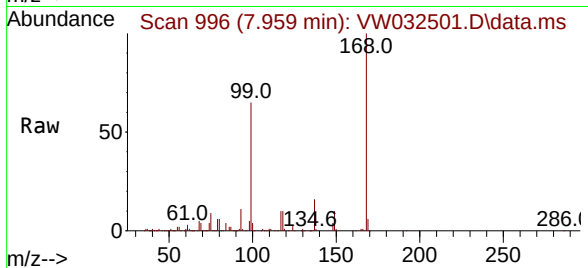




#31
Cyclohexane
Concen: 1.150 ug/l
RT: 7.959 min Scan# 998
Delta R.T. -0.012 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

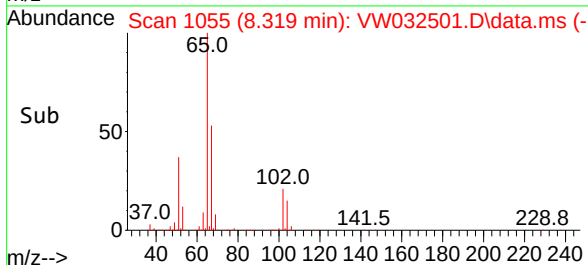
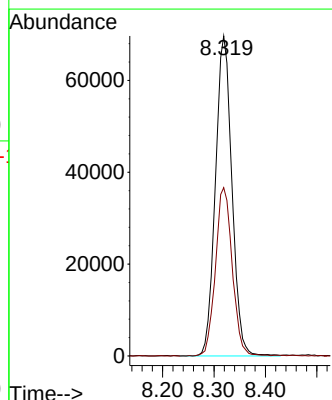
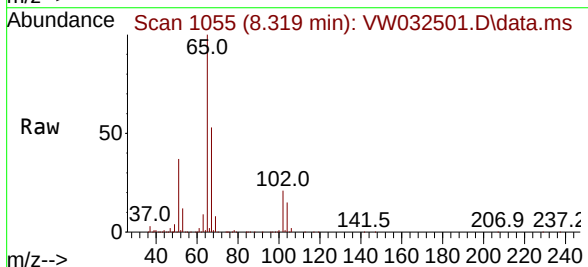
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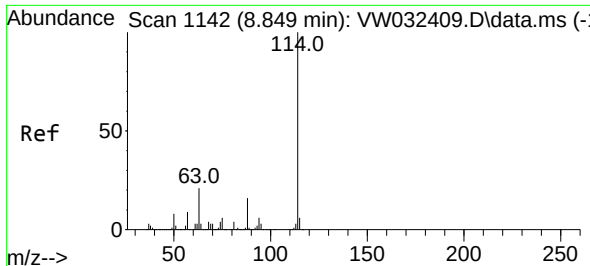
Tgt Ion: 56 Resp: 5262
Ion Ratio Lower Upper
56 100
69 186.2 26.5 39.7#
84 186.4 69.6 104.4#



#33
1,2-Dichloroethane-d4
Concen: 56.096 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 65 Resp: 155178
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.8

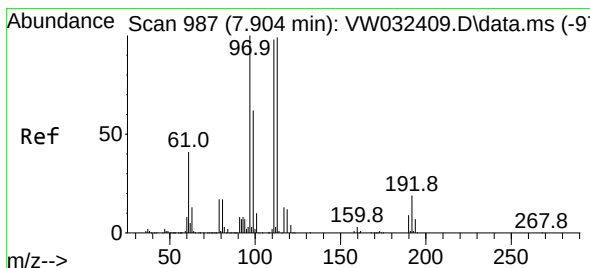
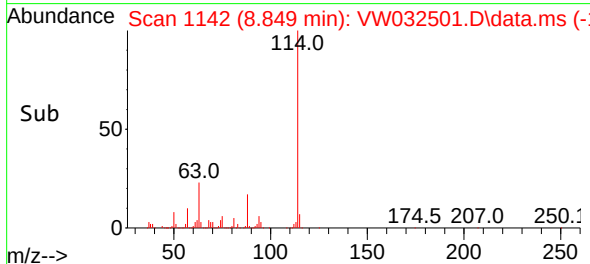
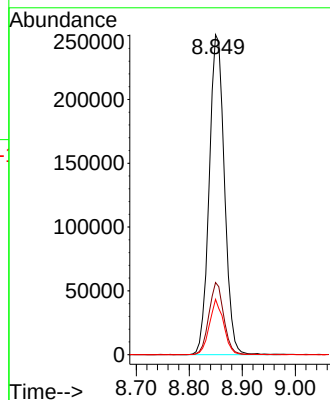
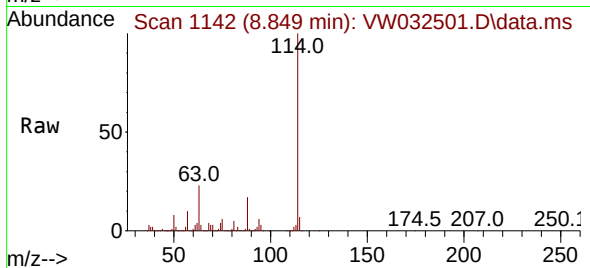




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

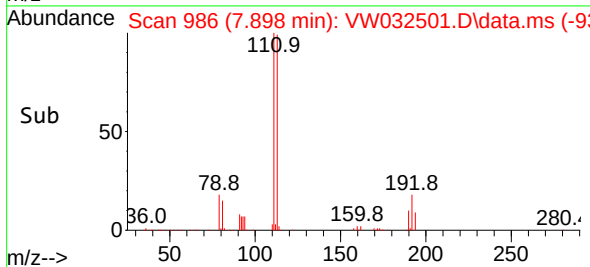
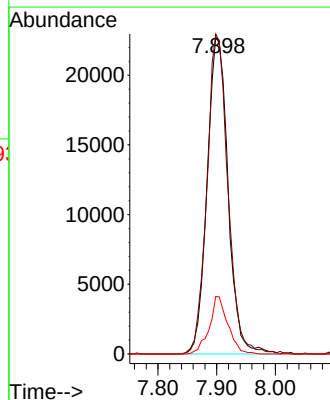
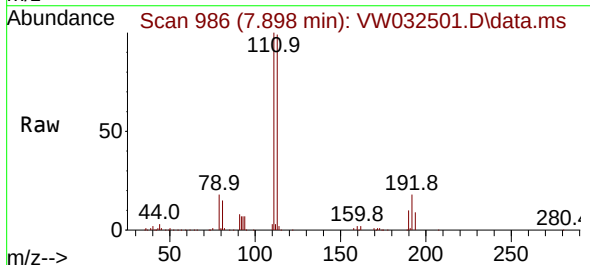
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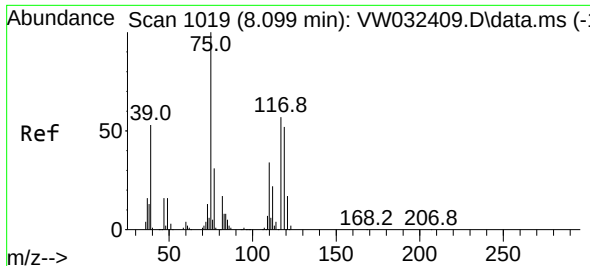
Tgt Ion:114 Resp: 499742
Ion Ratio Lower Upper
114 100
63 22.5 0.0 41.8
88 17.3 0.0 32.6



#35
Dibromofluoromethane
Concen: 18.868 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion:113 Resp: 56454
Ion Ratio Lower Upper
113 100
111 101.0 83.1 124.7
192 16.0 13.4 20.2

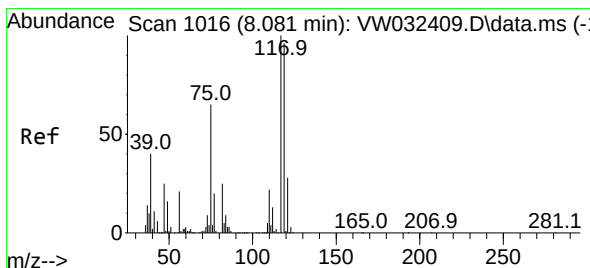
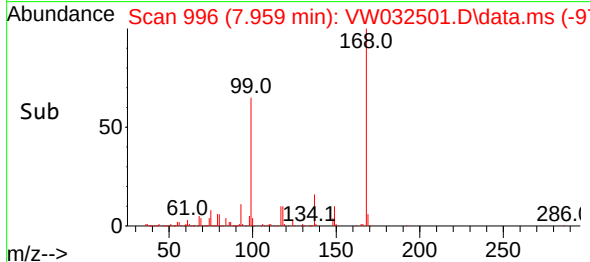
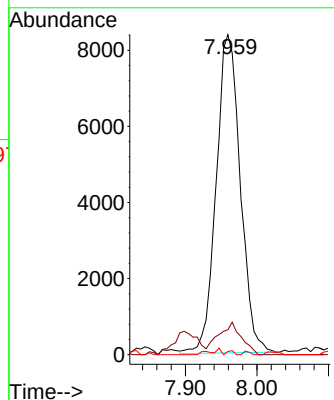
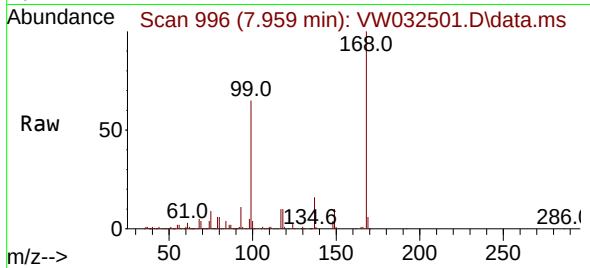




#36
 1,1-Dichloropropene
 Concen: 4.455 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032501.D
 Acq: 19 Nov 2025 14:42

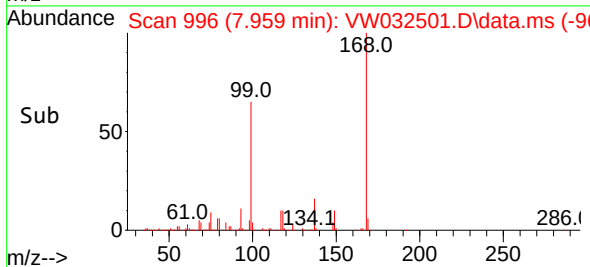
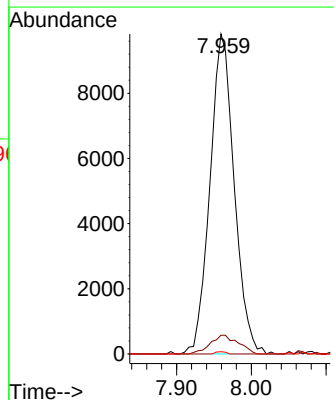
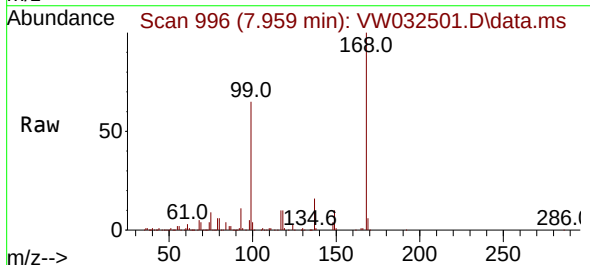
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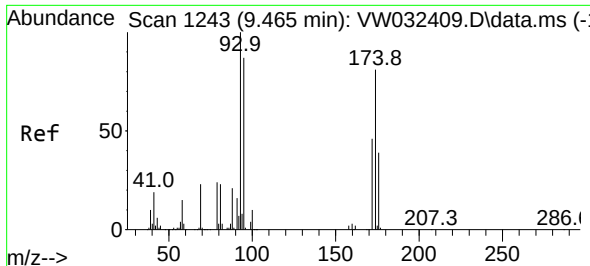
Tgt Ion: 75 Resp: 19638
 Ion Ratio Lower Upper
 75 100
 110 9.7 17.2 51.5#
 77 1.2 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 5.662 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.122 min
 Lab File: VW032501.D
 Acq: 19 Nov 2025 14:42

Tgt Ion: 117 Resp: 22179
 Ion Ratio Lower Upper
 117 100
 119 5.8 77.0 115.4#
 121 0.7 22.0 33.0#





#49

1,4-Dioxane

Concen: 1.831 ug/l

RT: 9.471 min Scan# 1244

Delta R.T. 0.006 min

Lab File: VW032501.D

Acq: 19 Nov 2025 14:42

Instrument :

MSVOA_W

ClientSampleId :

ARS20-0013

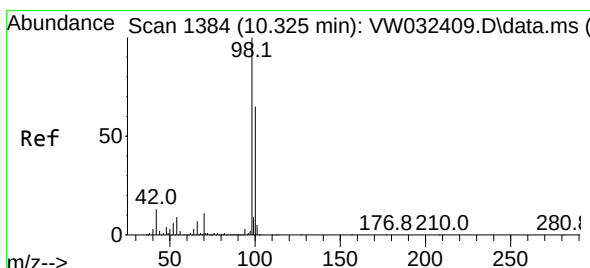
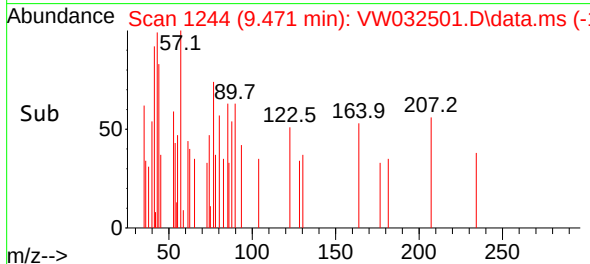
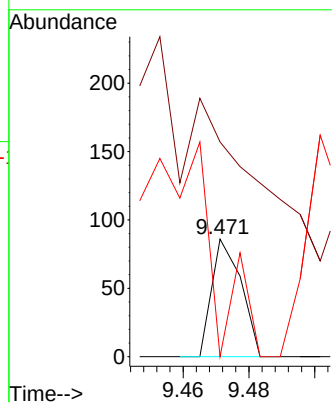
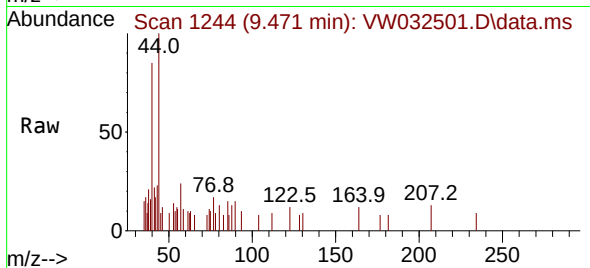
Tgt Ion: 88 Resp: 53

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 63.0 94.4#



#50

Toluene-d8

Concen: 45.041 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032501.D

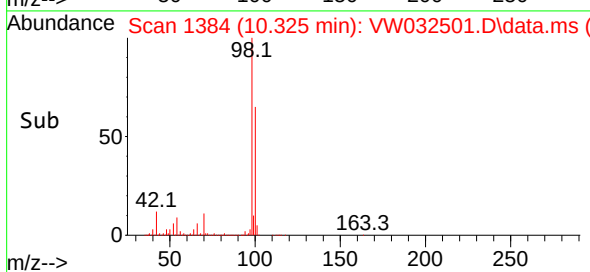
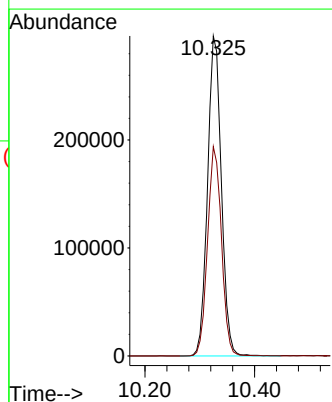
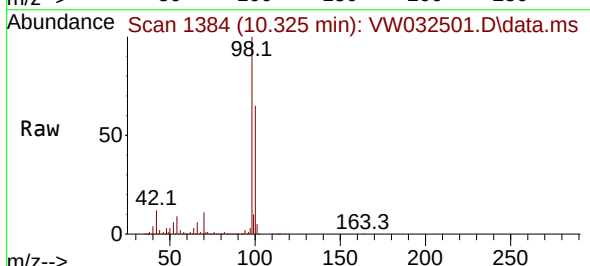
Acq: 19 Nov 2025 14:42

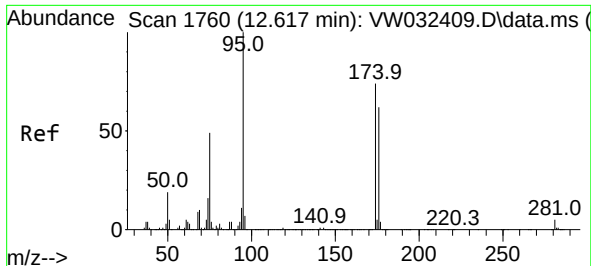
Tgt Ion: 98 Resp: 517013

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9

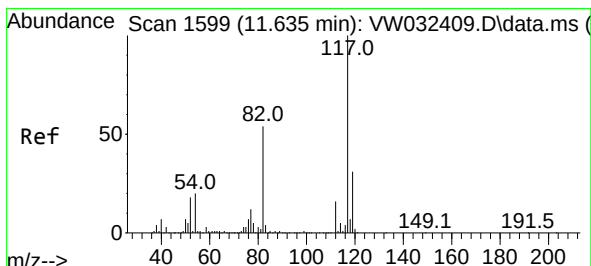
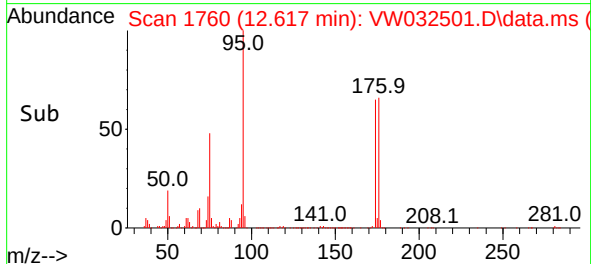
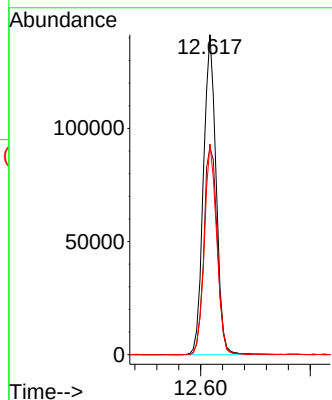
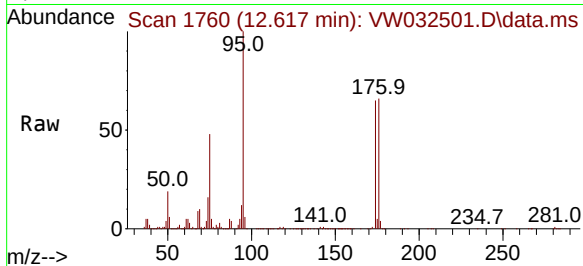




#62
4-Bromofluorobenzene
Concen: 52.227 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

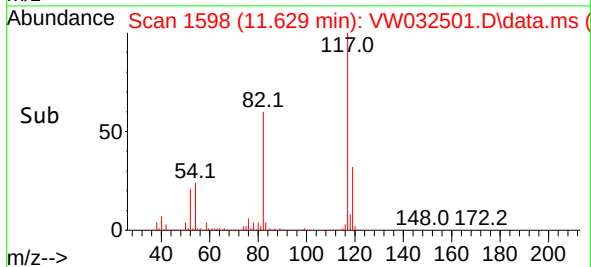
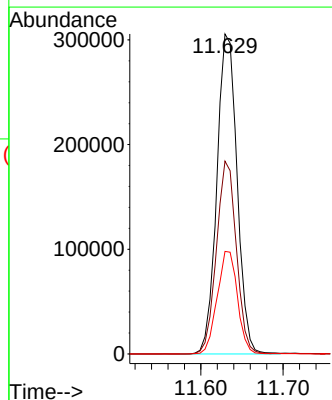
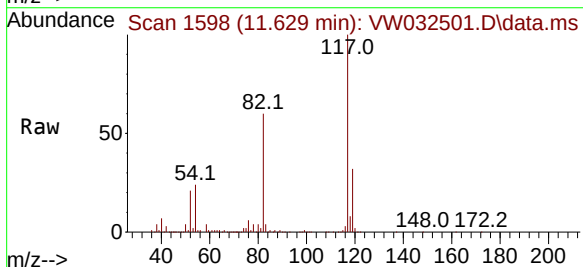
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0013

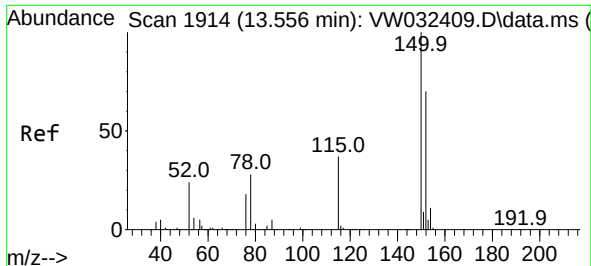
Tgt Ion: 95 Resp: 226465
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.4
176 64.5 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 117 Resp: 523165
Ion Ratio Lower Upper
117 100
82 60.3 43.0 64.4
119 32.0 25.0 37.6

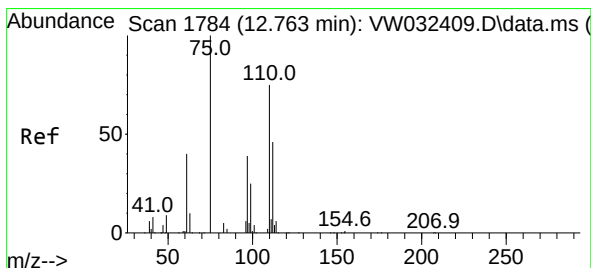
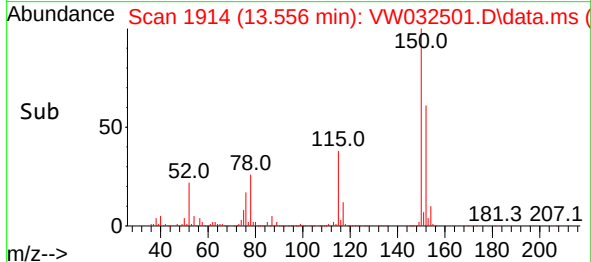
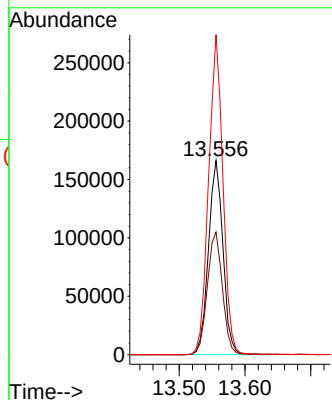
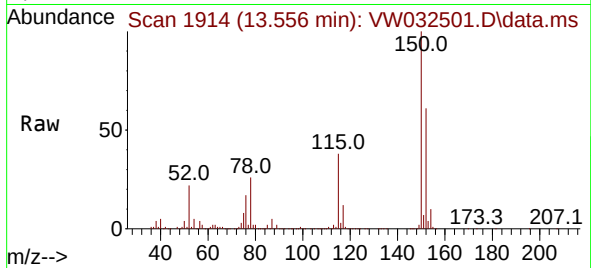




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.556 min Scan# 1914
 Delta R.T. 0.000 min
 Lab File: VW032501.D
 Acq: 19 Nov 2025 14:42

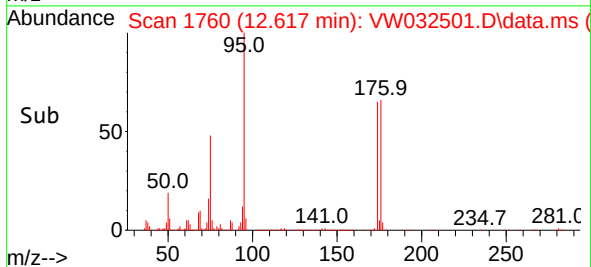
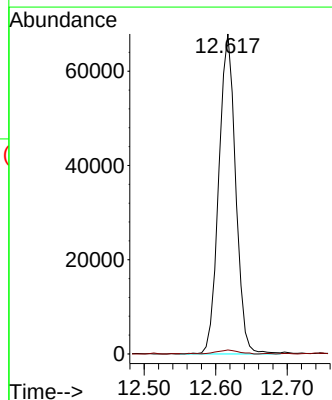
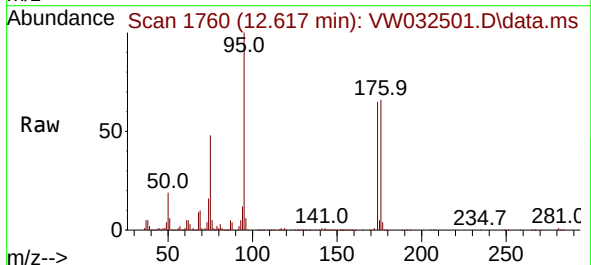
Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0013

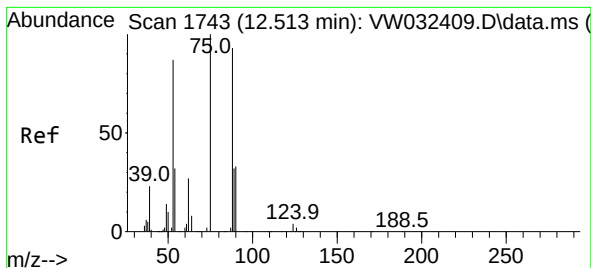
Tgt Ion:152 Resp: 255703
 Ion Ratio Lower Upper
 152 100
 115 65.6 32.8 98.3
 150 162.5 0.0 356.6



#76
 1,2,3-Trichloropropane
 Concen: 31.746 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW032501.D
 Acq: 19 Nov 2025 14:42

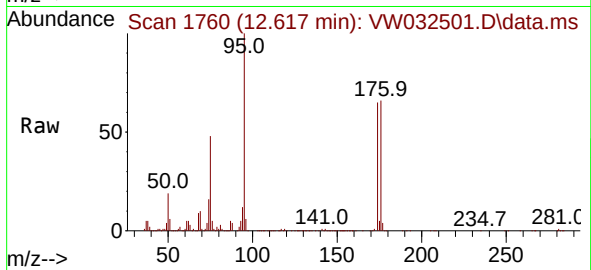
Tgt Ion: 75 Resp: 111305
 Ion Ratio Lower Upper
 75 100
 77 1.6 151.6 454.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.712 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032501.D
 Acq: 19 Nov 2025 14:42

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0013



Tgt Ion: 75 Resp: 111305
 Ion Ratio Lower Upper
 75 100
 53 0.0 77.8 116.8#
 89 0.0 35.6 53.4#

